

FEBRUARY 6, 2020

**SPECIAL PROVISION****AMENDMENT TO SECTION 615 – TRAFFIC SIGNS****Sign Material and Post Requirements**

*This special provision, in addition to other issues, removes demountable copy, emphasizes that digital printing is not allowed, updates reference documents, updates the concrete class for bases, and removes the final pay designation for signs. For further information with respect to overhead sign structures, see the additional special provision to Section 615.*

**Amend** 1.2.1 to read:

**1.2.1** Traffic Signs Type A and Type AA shall be extruded aluminum plank traffic signs with retroreflective background sheeting and retroreflective copy (words, logos, pictographs, symbols, arrows) and border. The post for Type A signs shall be steel W beam or aluminum tube, with hardware, as shown on the Plans.

**Amend** 2.5.1.1 to read:

**2.5.1.1** Blank.

**Add** 2.5.3.1 to read:

**2.5.3.1** Steel “U” posts with breakaway support systems may be used. See Section 2.8.1.

**Amend** 2.8.1 (including the addition of 2.8.1.1) to read:

**2.8.1** All sign supports and breakaway support systems shall conform to the AASHTO “Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals” and shall conform to the testing and evaluation criteria of NCHRP Report 350. Devices not conforming to the criteria shall be replaced with conforming devices at no expense to the Department.

**2.8.1.1** The Design-Build Team shall provide a Certificate of Compliance for each sign support and breakaway support system being supplied, stating it meets the testing and evaluation criteria of NCHRP Report 350 and has been approved by FHWA for use in weak and strong soils. A copy of the FHWA Eligibility Letter for breakaway sign supports shall be submitted with the sign shop drawings.

**Amend** 2.8.2 to read:

**2.8.2** Concrete for bases shall be Class A and shall conform to Section 520. Reinforcing steel shall conform to Section 544.

**Amend** 2.9, 2.9.1.1, and 2.9.1.3 to read:

**2.9 Copy (Words, Logos, Pictographs, Symbols, Arrows) and Borders**

**2.9.1.1** The design, size, arrangement, color, and spacing of copy and borders shall be in accordance with the current NHDOT Standard Plans for Road Construction, the adopted MUTCD, and the FHWA “Standard Highway Signs”.

**2.9.1.3** Demountable copy and border will not be accepted.

**Add** 2.9.1.4 and 2.9.1.5 to read:

**2.9.1.4** All sign sheeting, copy, and border materials shall be fabricated from components of compatible systems warranted by the same manufacturer in accordance with the Qualified Products List Product Qualification Criteria/Acceptance Criteria.

**2.9.1.5** Digitally printed copy and border will not be accepted.

**Amend** 2.9.2.1 and 2.9.2.2 to read:

**2.9.2.1** The copy and borders shall be constructed using sheeting conforming to 718 - Retroreflective Sheeting. Interstate and Turnpike route shields shall not be silk screened.

**2.9.2.2** Blank.

**Amend** 2.9.3.1 to read:

**2.9.3.1** The copy and borders shall be constructed using sheeting conforming to 718 - Retroreflective Sheeting. Interstate and Turnpike route shields shall not be silk screened.

**Amend** 2.9.4.1 to read:

**2.9.4.1** The copy and borders shall be constructed using sheeting conforming to 718 - Retroreflective Sheeting. Acceptable methods of construction include cut-out, overlay film, or silk screening. Interstate and Turnpike route shields shall not be silk screened.

**Amend** 2.10.1.1 to read:

**2.10.1.1** All background sheeting shall conform to Section 718 - Retroreflective Sheeting. Overlay film shall be a product listed on the Qualified Products List.

**Add** 2.10.1.3 to read:

**2.10.1.3** Digitally printed background will not be accepted.

**Amend** 3.1.3 to read:

**3.1.3** Traffic sign details not shown on the plans shall conform to current NHDOT Standard Plans for Road Construction, the adopted MUTCD, and the FHWA “Standard Highway Signs”. Traffic sign supports and framing members shall be in accordance with the AASHTO “Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals”.

**Amend** 3.2.2 to read:

**3.2.2 Preparation of aluminum sheets.** Prior to the application of the retroreflective sheeting, the aluminum sheet shall be one piece cut to the required size with the corners at the prescribed radii. All aluminum sheets shall have true and smooth edges, and shall be free of burrs or ragged breaks.

**Amend** 3.2.4 to read:

**3.2.4** Unless otherwise indicated on the sign text layout sheet, the Design-Build Team shall submit shop drawings for all signs for approval showing arrangements, spacing, arrow sizes, corner radii, border widths, indent spacing and colors of copy, and manufacturer. The shop drawings shall also list the types of retroreflective sheeting, overlay, and/or non-reflective materials that are to be used for the background, copy, and borders, in accordance with Section 105.02.

**Amend** 3.2.5 to read:

**3.2.5 Application of Retroreflective Sheeting to Aluminum Plank.** The sheeting shall be applied to the face of the extruded aluminum planks by a squeeze roller applicator in accordance with the recommendations of the sheeting manufacturer. The face of the planks shall be completely covered by the retroreflective sheeting. All signs shall contain the date of manufacture and sign size, located in the lower left corner of the front face of the sign (e.g., 3-15 10’x15’). Letters and numbers shall be 2-inch white adhesive pressure copy.

**Amend** 3.2.6 to read:

**3.2.6 Application of Retroreflective Sheeting to Aluminum Sheets.** The sheets shall conform to the provisions of 3.2.5, except that the sheeting shall be applied to the aluminum either by the heat vacuum applicator method or by mechanical roller application in accordance with the recommendations of the sheeting manufacturer. All Type B and C aluminum sheet signs larger than 4’ x 4’ shall contain the date of manufacture and sign size, located in the lower left corner of the front face of the sign (e.g., 3-15 4’x6’). Letters and numbers shall be 1-inch white adhesive pressure copy. All aluminum sheet signs 4’ x 4’ and smaller shall contain the date of manufacture and sign size located in the lower right corner on the back of the sign, applied with permanent marker or paint in a legible size (e.g., 3-15, 3’x3’).

**Delete** entire 3.2.7 section.

**Add** 3.2.7 to read:

**3.2.7 Application of Sign Copy and Border.** Sign copy and border shall be applied in accordance with manufacturer's recommendations.

**Amend** 3.3.3 to read:

**3.3.3** All sign heights shall be in accordance with the MUTCD or NHDOT Standard Plans for Road Construction.

**Delete** entire 3.4 section. (See additional Special Provision for Section 615, if necessary.)

**Add** 3.5.9 to read:

**3.5.9** Overhead mounted signs shall be attached to the overhead structure with all new mounting hardware unless otherwise noted on the plans.