

# EXPECTED IMPLEMENTATION JULY 2021

## 700 HIGHWAY SIGNING (REV 12-7-20) (FA 2-12-21) (7-21)

SUBARTICLE 700-1.2.3 is deleted and the following substituted:

**700-1.2.3 Static Sign Assembly Requirements:** See 700-7 for In-Street sign requirements. Sheets and plates for sign panels shall meet the requirements of ASTM B209, Aluminum Association Alloy 6061-T6, 5154-H38 or 5052-H38. Sign panels for single column ground mounted signs shall utilize aluminum plate with a minimum thickness of 0.08 inch. All other sign panels shall utilize aluminum plate with a minimum thickness of 0.125 inch. All panels shall have rounded corners. For flip up signs, the continuous hinge shall be stainless steel ANSI grade 316.

SUBARTICLE 700-1.2.4 is deleted and the following substituted:

**700-1.2.4 Retroreflective Sign Sheeting:** Use signs that meet the material and process requirements of Section 994.

Use Type XI sheeting for all regulatory, warning, and overhead signs unless otherwise specified. The R1-1, R1-2, R5-1 and R5-1a signs must use a sheeting system that includes a colorless film overlay.

Type XI sheeting shall also be used for all limited access advance exit and exit guide signs.

Use Type IV fluorescent yellow-green sheeting for the following signs:

1. school: S1-1, S3-1, S3-2, S4-5, S4-5a, S5-1 (SCHOOL portion),
  2. bicycle: W11-1,
  3. pedestrian: R1-6, R1-6a, R1-6b, R1-6c, R1-9, R1-9a, R10-15, W11-2,
  4. shared use path (trail): W11-15, W11-15a,
  5. supplemental panels used with signs in (1) through (4),
- above.

Do not mix signs having fluorescent yellow-green sheeting with signs having yellow retroreflective sheeting.

Use Type VI sheeting for Roll-up signs.

Use Type IV sheeting for all other signs.

Use Type IV or Type XI sheeting for retroreflective strips on signs.

SECTION 700 is expanded by the following new Article.

### **700-7 In-Street Signs.**

**700-7.1 Description:** In-Street signs consist of the R1-6a or R1-6c In-Street Pedestrian Crossing Sign assemblies including the sign base.

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**700-7.2 Materials:** The sign assembly includes the vertical panel, retroreflective sign sheeting, a rebounding boot support, and a base. The vertical sign panel is bolted to a flexible boot which is fastened to a plastic, recycled PVC, or rubber base and secured to the pavement surface. The sign assembly shall contain no upright metal parts.

The vertical panel shall yield (bend) fully upon vehicle impact, then return to vertical position plus or minus 10 degrees with no delaminating. The face of the vertical panel shall resist twisting and remain oriented to the installed direction after vehicle impact. The sign shall not split, crack, break, or separate from base.

**700-7.2.1 Vertical Panel:** Use only UV stabilized, ozone and hydrocarbon resistant outdoor-grade thermoplastic polymer, polycarbonate, recycled PVC, or HDPE materials. UV stabilization testing shall be in accordance with ASTM (D1435).

Place retroreflective sign sheeting on both sides of the vertical panel.

The surface of the panel shall be smooth and free of defects, suitable for adherence of appropriate retroreflective sheeting.

**700-7.2.2 Sign Sheeting Legend:** The legend of the sign (white) shall be of the same grade of retroreflective sheeting as the body of the sign.

## **700-7.2.3 Base:**

**700-7.2.3.1 Sign Base (Fixed):** The base shall be constructed with high-impact materials using ozone and hydrocarbon resistant outdoor-grade thermoplastic polymer, polycarbonate, or HDPE materials meeting the general provisions for all In-Street sign bases.

**700-7.2.3.2 Sign Base (Portable):** Portable base assemblies shall consist of a lightweight plastic, recycled PVC, or rubber material that may be easily moved or relocated by a single person.

**700-7.2.3.3 Color:** Sign bases shall be either black, or the same color as the adjacent pavement marking.

**700-7.2.4 Approved Product List (APL):** Use In-Street Signs listed on the APL. Manufacturers seeking inclusion on the APL must submit the following in accordance with Section 6:

1. Product Photo
2. Product Drawings, which at a minimum includes:
  - a. Model Number
  - b. Allowable sign panel size and substrate
  - c. Dimensions of sign base and mounting heights
3. Installation Instructions
4. Crash Test Reports demonstrating MASH compliance
5. All FHWA Eligibility Letters
6. When requested, submit product sample

**700-7.3 Fabrication of Panel Messages:** Fabricate standard sign panel messages in accordance with the Standard Plans. Sign panels of 8" wide x 28" tall or 12" x 36" are acceptable. See Standard Plans Section 700-102.

**700-7.4 Connection Method:** Install a fixed base connection in accordance with the manufacturer's instructions. Install portable base connections only for temporary applications at school crossings where a crossing guard is present during school arrival and departure times or when children are present.

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**700-7.5 Method of Measurement:** Quantities to be paid will be per each assembly.

**700-7.6 Basis of Payment:** Price and payment will be full compensation for all work and materials specified in this Section, including connection hardware.

Payment will be made under:

Item No. 700- 15 In-Street Sign, per Assembly

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