

Origination Form

Specifications

Submittal Information			
Name:	Karen Byram	Standard Specification Section:	700
Email:	karen.byram@dot.state.fl.us	Special Provision:	
Date:	2026-06-17T21:06:01Z	Associated Specs:	N/A

Summary:

All lines stating the Engineer will take random samples of all material in accordance with the Department's Sampling, Testing and Reporting Guide schedule or equivalent have been removed. Sign fabricators will be listed on the Approved Product List. Add subarticle 700-4.2.1 to include breakaway power cable and connector requirements associated with Standard Plans Index 700-120, sheet 2 of 13, Detail A.

Justification:

Since the Random Sampling Program under Materials Manual 5.10 has been retired and its functions integrated into the Product Evaluation process, retaining this language could misrepresent current practice and create inconsistencies in application or interpretation. Compliance with 23 CFR 635.410. Requiring fused, watertight in line breakaway connections ensures that any electrical fault occurring within the sign assembly or its wiring is interrupted immediately at the source. A properly rated Class CC fuse provides fast, current limiting protection that reduces fault energy and prevents escalation of electrical failures. This update aligns Enhanced Highway Signing Assemblies with the protection practices used in other FDOT electrical systems and ensures consistent safety performance across installations. The change reduces the likelihood of energized conductors being exposed after a knockdown event, minimizes equipment damage, and enhances overall system safety.

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans		No
Florida Design Manual		No
Structures Manual		No

Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No
Materials Manual		No
Traffic Engineering Manual		No

Are changes in line with promoting and making progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?

Revisions to this specification is critical to ensure that accurate information and instructions are communicated to the Contractor and industry partners and its representatives, to therefore, improve safety, enhance mobility, inspire innovation, and foster talent.

What financial impact does the change have; project costs, pay item structure, or consultant fees?

The revisions could have minimal financial impact.

What impact does the change have on production or construction schedules?

The revisions have no impact on production or construction schedules.

How does this change improve efficiency or quality?

Efficiency is improved by eliminating the need for project personnel to consult the STRG for routine random sampling, which previously occurred on every project in some cases and resulted in unnecessary oversampling without added value. Compliance with 23 CFR 635.410 is improved by determining manufacturing domestic compliance as it arrives at the job site.

Which FDOT offices does the change impact?

State Materials Office

What is the impact to districts with this change?

N/A

Does the change shift risk and to who?

Eliminating project random sampling reduces field verification of as-installed material and shifts reliance to manufacturer requalification. The risk of nonconforming materials could go undetected in actual use, which is generally considered a low but no longer independently verified risk.

Provide summary and resolution of any outstanding comments from the districts or industry.

Comments and Responses are available on the Track the Status of Revisions hyperlink located on the Specifications landing page: <https://www.fdot.gov/specifications/default.shtm>

What is the communication plan?

Through the established specification revision process (e.g., Internal and Industry Review)

What is the schedule for implementation?

The Standard Specifications eBook and Workbook are effective July 1st every year.

HIGHWAY SIGNING

(REV 6-17-26)

ARTICLE 700-1 is deleted and the following substituted:

700-1 Description.

Furnish and install roadway signs in accordance with the details in the Standard Plans and as shown in the Plans.

—Erect ground traffic signs as signs on the shoulders, slopes, or medians. Signs are classified as single column(post), multi-column, or In-Street signs.

—Erect overhead traffic signs partially or completely over the traveled roadway or mounted on bridges. Overhead traffic signs are classified as span wire mounted, mast arm mounted, overhead cantilever structure, or overhead span structure traffic signs.

—The sign face(s) may be a single or combination of static sign panels, illuminated sign panels, dynamic message signs, or electronic display signs.

—Fabricate standard sign panel messages in accordance with details included in the Standard Highway Signs (SHS) manual published by the U.S. Department of Transportation, the Plans, or Standard Plans. Submit shop drawings to the Department for approval, as specified in Section 5.

—All Traffic Control Signals and Devices must meet the requirements of Section 603.

ARTICLE 700-2 is deleted and the following substituted:

700-2 Materials.

700-2.1 General Requirements: Meet the following requirements:

Flowable Fill for precast foundation.....	Section 121
Structural Concrete	Section 346
Non-Structural Concrete	Section 347
Reinforcing Steel	Section 415
Structural Steel Welding.....	Section 460
Repair of Galvanized Surfaces*.....	Section 562
Transformer Base*.....	Section 965
Structural Steel and Miscellaneous Metal Items (other than aluminum).....	Section 962
Aluminum Items	Section 965
Retroreflective Sign Sheeting*	Section 994
Sign Panel Fabrication**	Section 994
Internally Illuminated Signs*	Section 995-14
Highlighted Signs*	Section 995-15
Dynamic Message Signs*	Section 995-16
Electronic Display Signs	
(ERS <u>VSL</u> S, ESFS, BOS)*	Section 995-17
Sign Beacon*	Section 995-18
In-street Sign*	Section 995-19

*Use products listed on the Department's Approved Products List (APL).

****Use Sign Fabricators listed on the APL.**

700-2.2 Static Sign Assembly Requirements:

700-2.2.1 Static Sign Panels: ~~Provide aluminum sheets for sign panels meeting the requirements of Section 965 and Section 994.~~ Meet the minimum thickness requirements of Table 700-1.

For flip signs, use continuous hinges constructed of ANSI grade 316 stainless steel.

For In-Street signs, see 700-7.

Table 700-1 Static Sign Panel Requirements	
Type	Minimum Thickness
Single column ground sign	0.08 inch
All other sign panels	0.125 inch

700-2.2.2 Sign Panel Mounting Hardware: Provide aluminum materials (plates, bars, shapes, bolts, nuts, and washers) in accordance with Section 965. Stainless steel mounting hardware meeting Table 962-6 (ASTM F593 for bolts and ASTM F594 for nuts) may be substituted. Steel plates, shapes and hardware must meet Section 962.

700-2.2.3 Retroreflective Sign Sheeting: ~~Meet S~~sign sheeting ~~must meet the~~ requirements of Section 994 and Table 700-2. All digitally printed traffic signs and red silkscreen inks require a clear overlay for UV protection on the entire face of the sign.

Table 700-2 Retroreflective Sign Sheeting*		
Application	Sheeting System Type	Notes
All signs and retroreflective strips, except as otherwise noted below	Type XI	
School: S1-1, S3-1, S3-2, S4-5, S4-5a, S5-1 (SCHOOL portion) Bicycle: W11-1 Pedestrian: R1 6, R1 6a, R1 6b, R1 6c, R1 9, R1 9a, R10 15, W11 2 Shared Use Path (trail): W11 15, W11 15a	Type XI fluorescent yellow green sheeting**	Includes supplemental panels
* All digitally printed signs and red silkscreen inks require a clear overlay for UV protection.		
**Do not mix signs having fluorescent yellow green sheeting with signs having yellow retroreflective sheeting.		

SUBARTICLE 700-2.4.3 is deleted and the following substituted:

700-2.4.3 Overhead Signs: Obtain overhead sign structures from a facility that is listed on the Department's Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105.

 Meet the requirements for overhead signs in accordance with Section 962.

_____ Repair galvanized surfaces in accordance with Section 562. Galvanizing materials used for repair must meet the requirements of Section 975.

SUBARTICLE 700-4.2 is deleted and the following substituted:

700-4.2 Materials: Use flashing beacons, highlighted signs, electronic display signs (EDS), and associated mounting hardware that meet the requirements of Section 995 and are listed on the APL. EDS are specialized electronic signs that include dynamic display components. The term EDS refers to a general category of electronically enhanced road signs (~~(ERS)~~ with warning regulatory, or guide legends; including electronic speed feedback signs (ESFS); and blank-out signs (BOS).

For new roadside sign assemblies, provide support structure in accordance with Section 646. Meet all static sign requirements for the static portion of the highlighted sign (i.e., sign panel, reflective sheeting, etc.).

700-4.2.1 Breakaway Power Cable and Connector: Power cable shall be multi-conductor cord SOW or SOOW type with a 600V rating, UL-listed, minimum 12 AWG. The ground wire must have green insulation. Provide single-pole in-line fuse holders with a breakaway connection rated 30A, 600V. Use fused connections that utilize an ATQ or FNQ, Class CC, 600 VAC, 15-amp, time-delay, UL-listed fuse with a minimum interrupting rating of 200kA RMS Symmetrical. Provide a non-fused disconnect on the neutral conductor using a permanently installed solid neutral slug. Fuse holders shall be rated watertight or submersible.

700-4.2.12 Warranty: Ensure that beacons, highlighted signs, and EDS have a manufacturer's warranty covering defects for three years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.