

# Origination Form

## Specifications

Submittal Information			
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<b>Date:</b>	2026-06-02T14:58:24Z	<b>Associated Specs:</b>	967

### Summary:

Updating Specs to add new Post Cap option. Corresponds to Standard Plans, Index 536-001 revision. Revisions are to Spec Subsections: 536-2, 536-3.13 (new), 536-6.1, 967-6.2. New APL category will be created once Spec is published. Two vendors are on standby. No new Pay Item needed.

### Justification:

Updating Specs to add new Post Cap option.

### Do the changes affect other types of specifications?

Neither

### List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans	Me	Yes
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List	The C-Team	Yes
Construction Office		No
Maintenance Office		No
Materials Manual		No

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

Adding an innovative option to save costs regarding a pedestrian safety feature for guardrail posts.

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

Possible reduction in costs

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

None

**How does this change improve efficiency or quality?**

Adds a less expensive option for pedestrian safety

**Which FDOT offices does the change impact?**

Design, Construction

**What is the impact to districts with this change?**

See previous

**Does the change shift risk and to who?**

No.

**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.

**GUARDRAIL  
(REV 6-2-26)**

ARTICLE 536-2 is deleted and the following substituted:

**536-2 Materials.**

Use components for guardrail, including posts, offset blocks, steel panels, panel components, bolts, foundations, barrier delineators, end delineators, rub rail, pipe rail, post caps, and approach terminals, in accordance with Section 967. Prior to installation, submit a list of the APL numbers of all approach terminals, barrier delineators, and composite offset blocks to be used on the project.

SUBARTICLE 536-3.6 is deleted and the following substituted:

**536-3.6 Special Steel Post:** Mount to concrete structures using the following systems.

**536-3.6.1 Adhesive Bonded Anchors:** For concrete structures 9 inches deep and greater, mount the base plate to the concrete using steel adhesive-bonded anchor bolts with a minimum tensile strength of 60 ksi and galvanized in accordance with ASTM A153. Stainless steel components may be substituted, but components plated in accordance with ASTM B633 are not acceptable. Use adhesive-bonded anchors in accordance with Section 937 and 416 (Type HSHV) and in accordance with the manufacturer's specification.

Drill holes in concrete, through reinforcing steel if encountered.  
Thoroughly clean and dry the holes immediately prior to setting anchors.

At a minimum, meet the following strength capacities in Table 536-1:

Table 536-1 Anchor Strength Capacities		
	Approach Slabs	Other Structures
Min. Tensile Load (Each Anchor)	14,000 lbs	8,000 lbs
Min. Shear Load (Each Anchor)	15,000 lbs	7,800 lbs

**536-3.6.2 Hex-Head Bolt:** For concrete structures less than 9 inches deep, use a 3/4 inch Hex-Head bolt passing through a 7/8 inch drilled hole in the concrete structure and secured from underneath with a washer and nut. The threaded bolt must not protrude more than 3/4 inches beyond the tightened nut; trim the threaded portion as needed and galvanize in accordance with Section 562.

**536-3.7 Steel Panels:** Use straight panels to construct radii of 125 feet or greater. Use fabricated shop-bent panels to accommodate radii of less than 125 feet.

**536-3.8 Panel Slots and Holes:** Use the panel's unaltered, prefabricated slots and holes as shown in the Standard Plans. Do not drill, punch, ream, or otherwise alter the prefabricated slots and holes, except when creating new post bolt slots for reduced post spacing (quarter spacing) and adjusting post spacing to avoid structure edge conflicts as shown in the Standard Plans. Where required, punch new post bolt slots to the dimensions given in the Standard Plans, spaced no closer than 4 inches measured edge to edge from an existing slot. Galvanize new punched slots per Section 562.

**536-3.9 Barrier Delineators:** Mount barrier delineators on top of the guardrail post by adhesive or mechanical means per the manufacturer's recommendations.

**536-3.10 End Delineators:** Install the retroreflective sheeting on the approach face (nose) of approach terminals, trailing anchorages, and controlled release terminal (CRT) end treatments where indicated in the Standard Plans. Mount the retroreflective sheeting vertically centered on the approach face by adhesive or mechanical means per the manufacturer's recommendations. Retroreflective sheeting must be a minimum 8 inches in height with a minimum area of 160 square inches for approach terminals and trailing anchorages and 240 square inches for CRT end treatments.

**536-3.11 Rub Rail:** Treat field drilled holes in accordance with Section 562.

Rub rail must terminate at the nearest post outside of the rub rail stationing range indicated in the Plans.

**536-3.12 Pipe Rail:** Treat field drilled holes in accordance with Section 562.

Pipe rail must terminate at the nearest post outside of the pipe rail stationing range indicated in the Plans.

**536-3.13 Post Caps: Mount post caps on top of the guardrail posts by adhesive or mechanical means per the manufacturer's recommendations.**

**536-3.134 Existing Guardrail:** Stockpile guardrail, if specified, within the right-of-way at a location approved by the Engineer. Dispose of all remaining guardrail not specified for stockpiling.

**536-3.145 Approach Terminal Assemblies:** Install approach terminal assemblies as specified in the Plans and APL drawings and in accordance with the geometry and adjacent grading of the Standard Plans. The APL number must be permanently marked on each assembly at a readily visible location using legible lettering at least 3/4 inch in height.

If the Plans call for an approach terminal assembly and do not identify the specific system to be used, the contractor has the option to construct any Department-approved approach terminal assembly identified on the APL that meets the applicable test criteria, subject to the conditions identified in the Plans or the APL drawings.

SUBARTICLE 536-6.1 is deleted and the following substituted:

**536-6.1 Guardrail:** Price and payment will be full compensation for all work specified under this Section, except those items specified in 536-6.2 through 536-6.7. Price and payment include furnishing and installing posts, panels, barrier delineators, offset blocks, post caps, and all other applicable materials as defined in the Plans and the Standard Plans. The price and payment will include any reduced post spacing, nested panels, shop-bent panels, end unit panels, and CRT posts as required in the Plans.

The type of guardrail specified will be that which comprises the guardrail run between end treatments and transition connections to rigid barrier (including, but not limited to, w-beam general, w-beam double face, w-beam low-speed, modified thrie-beam). For guardrail systems with direct connections between end treatments and transition connections to rigid barrier, the type of guardrail specified will be w-beam for single face guardrail applications or double faced for double face guardrail applications.