

# Origination Form

## Specifications

| Submittal Information |                               |                                        |     |
|-----------------------|-------------------------------|----------------------------------------|-----|
| <b>Name:</b>          | Richard Stepp                 | <b>Standard Specification Section:</b> | 550 |
| <b>Email:</b>         | richard.stepp@dot.state.fl.us | <b>Special Provision:</b>              |     |
| <b>Date:</b>          | 2026-06-30T15:26:18Z          | <b>Associated Specs:</b>               | 962 |

### Summary:

This revision adds a proprietary option for anti-climbing, anti-cutting fencing to support what is already being used by some Districts. In Sections 550 & 962, track-change revisions are proposed for Specs 550-2, 550-3.1, 550-3.4 thru 3.6, and 550-4.1, 550-4.5, 962-13.1 thru 962-13.2. Additionally, 550-4.5 is being updated to accommodate last year's Standard Plans Index 550 Series redevelopment.

### Justification:

This proprietary fencing type will receive Specifications and APL requirements in order to expedite District design processes, including pre-approved BABA options on the APL. This fence may be used as a substitute for Standard Plans Type R fence on top of bridge railings (as currently supported by the Index 550 SPIs), and it may also be used underneath bridges for "security and anti-loitering" purposes. This supporting criteria with usage guidance and restrictions is currently being developed for FDM 260 (published 2027).

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

Neither

### List Specifications Affected:

| Other Affected Documents/Offices | Contacted              | Yes/No |
|----------------------------------|------------------------|--------|
| <b>Other Standard Plans</b>      |                        | No     |
| <b>Florida Design Manual</b>     | Me and Ben Gerrell     | Yes    |
| <b>Structures Manual</b>         |                        | No     |
| <b>Basis of Estimates Manual</b> | Joshua Toole C-Team    | Yes    |
| <b>Approved Product List</b>     | C-Team Karen and Missy | Yes    |

|                                   |  |    |
|-----------------------------------|--|----|
| <b>Construction Office</b>        |  | No |
| <b>Maintenance Office</b>         |  | No |
| <b>Materials Manual</b>           |  | No |
| <b>Traffic Engineering Manual</b> |  | No |

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

Yes. The revisions provide for more efficient design of proprietary fencing on top of bridges and below bridges. This creates more aesthetic fence options that discourage climbing. The fences also discourage loitering, and they improve security under bridges.

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

This will reduce design time because guidance will be provided and fence options will be available on the APL. Costs may be increased in order to provide the benefits of improved aesthetics, anti-climbing, anti-loitering at the discretion of the District offices.

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

This will reduce design time because guidance will be provided and fence options will be available on the APL.

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

This fencing will provide the benefits of improved aesthetics, anti-climbing, anti-loitering at the discretion of the District offices.

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

Design, Materials, Construction

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

The revisions provide for more efficient design of proprietary fencing on top of bridges and below bridges.

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

None

**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.

## FENCING (REV 6-30-26)

ARTICLE 550-2 is deleted and the following substituted:

### **550-2 Types of Fence.**

The types of fence are designated as follows:

- Type A (Farm Fence).
- Type A (Wildlife Fence).
- Type B (Chain-Link Fence).
- Type R (Chain-Link Fence for Pedestrian Overpass).
- Type M (Anti-Climbing Fence)

ARTICLE 550-3 is deleted and the following substituted:

### **550-3 Materials.**

#### **550-30.1 General.**

Meet the following requirements:

|                                                       |             |
|-------------------------------------------------------|-------------|
| Portland Cement Concrete – Class NS .....             | Section 347 |
| Ground Rods* .....                                    | Section 620 |
| Chain Link Fence Fabric* .....                        | 962-13      |
| Farm Fence Fabric* .....                              | 962-13      |
| Wildlife Fence Fabric* .....                          | 962-13      |
| Steel Barbed Wire*, Types I, IIA, IIB .....           | 962-13      |
| Aluminum Barbed Wire* .....                           | 965-4       |
| Timber Fence Posts and Braces .....                   | Section 954 |
| Steel Tie Wire and Tension Wire.....                  | 962-13      |
| Aluminum Tie Wire and Tension Wire*(Type B only)..... | 965-4       |
| Steel Posts and Braces* .....                         | 962-17      |
| Recycled Plastic Posts and Braces* .....              | 550-3       |
| Precast or Prestressed Concrete Posts* .....          | 550-3       |

\*Use products on the Department's Approved Product List (APL).

\*\*Additional requirements below.

**550-3.2 Type B Fence (Chain-Link):** Use concrete as specified in Section 347, or a premix approved by the Engineer for bases. The requirements contained in 347-2.2, and 347-3 will not apply.

**550-3.3 Type R Fence (Chain-Link for Pedestrian Overpass):** Use the fabric and accessories specified in the Plans.

**550-3.4 Type M (Anti-Climbing Fence):** Use only proprietary fence systems listed on the APL per Section 962. Within this Section, only 550-1, 550-2, 550-4.1, 550-4.3, 550-4.4.2, 550-4.7, 550-5.1, 550-5.2, 550-6.1, 550-6.3 and 550-6.4 apply for fence Type M. Where designs call for concrete foundations, follow applicable requirements of Sections 346 and 347.

**550-3.45 Resetting Fence:** Use material from the existing fence. For any additional materials required, provide the same type of material as in the existing fence and as specified herein, including gates when applicable.

**550-3.56 Optional Use of Materials:** For Type A (Farm Fence), a combination of steel, aluminum, timber, recycled plastic or concrete posts may be used. Line posts of one material may be used with corner, pull and end post assemblies of a different material. Line posts of only one optional material and pull posts assemblies of only one optional material between corner and end post assemblies is permitted. Within individual corner and end post assemblies, use only one optional material.

Recycled plastic line posts shall have a minimum section of a 4 inch-diameter round or 4 inches square. Do not use recycled plastic posts as corner, pull, end, or approach posts unless specified in the Plans. The straightness of the posts must comply with Section 954 for timber posts. The flexural strength shall meet the requirements of the latest edition of the Southern Pine Inspection Bureau's Standard Grading Rules for Southern Pine Lumber for No. 2SR Stress Rated Grade Timber. Set plastic posts by either digging and tamped backfill or by driving into the full depth preformed holes 1/4 inch to 1/2 inch smaller than the cross section of the post.

Use any suitable precast or prestressed concrete posts with Engineer approval. Use Class II concrete for precast posts. Use Class III concrete for prestressed posts. Lengths of concrete post to be as indicated for timber posts.

For Type B Fence, a combination of zinc-coated steel fence members, aluminum coated fence members and aluminum alloy fence members may be used. Use only one type of fabric material, one type of line post material and one type of pull assembly material between corner and end post assemblies.

SUBARTICLE 550-4.1 is deleted and the following substituted:

**550-4.1 General:** Install the fence in accordance with the ~~specific requirements of this Article and with~~ locations and requirements shown in the Plans. For Type A, B, and R fences, follow the details shown ~~on~~ in the Standard Plans. ~~for the particular type of fence called for, except for Type R Fence which shall be detailed in the Plans. Construct the fence at locations shown in the Plans.~~ For Type M fences, submit shop drawings in accordance with Section 5 if construction details are not fully shown in the Plans. Assume responsibility for obtaining satisfactory permits or permission from property owners for any encroachments required to perform the work, and for proper scheduling of the fence installation with the removal of existing fence where it is necessary to provide continuous security to adjacent areas already fenced. In order to meet this requirement, where necessary for maintaining security of livestock on adjacent property during construction of the new fence, the Engineer may require the erection and subsequent removal of temporary fencing.

For Type A (Farm Fence), attach woven wire to steel and concrete posts by a minimum of five tie wires. Apply the single wire ties to the top, bottom, and three intermittent line wires. The ends of each tie wire shall have a minimum of two tight turns around the line wire.

SUBARTICLE 550-4.5 is deleted and the following substituted:

**550-4.5 Setting Posts:** If rock occurs within the required depth of the post hole, or pavement which is to remain in place exists at the location of a post, drill a hole of a diameter slightly larger than the greatest dimension of the post or footing and grout in the post or footing. Set timber posts either by digging and tamping backfill or by driving. ~~Set recycled plastic fence posts in accordance with the Standard Plans~~ Set plastic posts by digging and tamping backfill, or drive posts into the full-depth preformed holes that are 1/4 inch to 1/2 inch smaller than the cross section of the post.