

Origination Form

Specifications

Name:	Shae Gibbs	Standard Specification Section:	550
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Date:	2025-06-30T17:49:35Z	Associated Specs:	954, 962, 965

Summary:

Moving materials and some installation notes from the Standard Plans into the Specification

Justification:

Moved to the appropriate specification to ensure BABA compliance

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans	Rick Jenkins	Yes
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List	Missy Hollis	Yes
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?

Yes

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

No

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

No

How does this change improve efficiency or quality?

Allows all materials to be in the correct location

Which FDOT offices does the change impact?

Design and SMO

What is the impact to districts with this change?

None

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/programmanagement/Specs.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 6-30-25)

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).

ARTICLE 550-3 is deleted and the following substituted:

550-3 Materials.

Meet the following requirements:

Portland Cement Concrete – Class NSSection 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 BracesSection 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.

~~550-3.1 Type A Fence (Farm Fence): Meet the requirements of Section 954 for timber posts and braces. For metal posts and braces, and for recycled plastic fence posts, meet the requirements of the Standard Plans.~~

~~For the fabric and all other accessories, meet the requirements of the Standard Plans.~~

~~550-3.2 Type B Fence (Chain-Link): For the posts, braces, fabric and all accessories other than the concrete for bases, meet the requirements of the Standard Plans.~~

~~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 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.

550-3.5 Optional Use of Materials: For Type A ~~(Farm Fence)~~Fence, a combination of steel, aluminum, timber, recycled plastic or concrete posts may be used. ~~Unless otherwise called for in the Plans, L~~line posts of one material may be used with corner, pull and end post assemblies of a different material. ~~The Engineer will permit the use of L~~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, ~~the Engineer will allow the use of~~ only one optional material.

Recycled plastic line posts shall have a minimum section of 4 inches 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. ~~Unless otherwise indicated in the Plans, the Engineer will allow the U~~use of 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.

~~**550-3.6 Certification:** Provide the Engineer with certified test reports from the manufacturer confirming that all materials (posts, braces, fabric and all other accessories) conform to the requirements of this Section, Section 6 and the Standard Plans. Provide the Engineer a copy of the certification at least ten days prior to fence construction.~~

~~Also furnish the Engineer a Certificate of Compliance certifying that the fencing system, materials and construction practices comply with the applicable Standard Plans and Specifications.~~

~~Acceptance of furnished material will be based on the Certificate of Compliance, accompanying test reports and visual inspection by the Engineer.~~

ARTICLE 550-4 is deleted and the following substituted:

550-4 ~~Construction Methods~~Installation.

550-4.1 General: Install the fence in accordance with the specific requirements of this Article and with the details shown on 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 ~~in close proximity to the right of way line except as otherwise~~ at locations detailed 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.

550-4.2 Spacing of Posts: Space posts as shown in the Standard Plans, within a tolerance of 12 inches, except where definite spotting of corner posts is required. Ensure that in any line of fence, the over-spacings and the under-spacings shall approximately compensate. Set additional line posts at abrupt changes in grade.

550-4.3 Clearing: Where the clearing and grubbing for the project includes the area occupied by the fence, clear the area to the limits shown in the Plans. If the limits are not shown in the Plans, clear the area at least 2 feet wide on each side of the fence line. The Engineer may direct that desirable trees be left in place and may restrict clearing where permission from the property owners cannot be obtained.

550-4.4 Construction Over Irregular Terrain and Other Obstructions:

550-4.4.1 Clearance of Bottom of Fence: Install the fence such that the bottom of the fence, ~~in general,~~ follows the contour of the ground. The fence is detailed in the Plans at approximately 3 inches above finished graded surface. Over irregular ground, ~~however, the Engineer will permit~~ a minimum clearance of 1 inch and a maximum of 6 inches for a length not to exceed 8 feet, and, for Type A fence, with the barbed wire spaced midway between ground and bottom of fabric.

550-4.4.2 Grading: Where necessary to secure proper vertical alignment and to meet the clearance requirements, fill depressions (except where filling would obstruct proper drainage) and cut down knolls and ridges. Provide a substantial and permanent foundation for the fence.

550-4.4.3 Use of Extra-Length Posts. At locations where it is impracticable to adjust the ground level, the Engineer may require that posts of additional length be set and that the opening at the bottom be closed by additional barbed wire, stretched taut between poles, with no vertical distance between wires greater than 3 inches. For all such posts requiring a concrete base, extend the concrete downward to the bottom of the extra-length post.

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 or by driving. Set recycled plastic fence posts in accordance with the Standard Plans.

550-4.6 Placing Fabric: Do not place fabric and barbed wire until the posts have been permanently positioned and concrete foundations have attained adequate strength. Place the fabric by securing one end and applying sufficient tension to remove all slack before making permanent attachments at intermediate points. Fasten the fabric to all end, corner and pull posts by approved means. Fasten the fabric using tools designed for the purpose, in accordance with the manufacturer's recommendations. Apply the tension for stretching by mechanical fence stretchers or with single-wire stretchers designed for the purpose.

550-4.7 Electrical Grounds:

550-4.7.1 Grounding for Overhead Lines: Wherever an overhead power line crosses over the fence, install a ground rod directly below the point of crossing. Where an

overhead power line runs parallel to, and within 100 feet of the fence, install a ground rod at each end of the fence and at intervals of no greater than 1,500 feet. Use copper-clad steel ground rods that are a minimum of 8 feet in length and 1/2 inch in diameter. Drive the rod vertically until the top of the rod is approximately 6 inches below the ground surface. Connect a conductor of No. 6 AWG solid copper wire to the ground rod and each metal fence element directly adjacent to the ground rod using non-corrosive ground rod clamps.

550-4.7.2 Fences with Non-Metal Posts: For all fences using non-metal posts, substitute a metal post for a non-metal post at intervals of no greater than 300 feet with at least one metal post in any length of fence. Tightly fasten a galvanized steel wire to the barbed wire, fence fabric, and metal post.

SUBARTICLE 550-6.1 is deleted and the following substituted:

550-6.1 ~~Basic Items of~~ Fencing: The Contract unit price per foot for the item of fencing, will be full compensation for all work and materials necessary for the complete installation, including line posts, corner, end, and pull posts. Such price and payment will include, but not be limited to, the following specific incidental work.

1. Any work required to level and prepare the terrain along the line of the fence.
2. Any additional clearing incidental to construction of the fence.
3. All preparation for post holes, in whatever type of material, as specified herein.
4. Any furnishing and installing of electrical grounds.
5. Any additional work or materials required for special construction over irregular terrain, or terrain of inadequate support for the posts, including the additional barbed wire, but not including the extra lengths of posts ordered by the Engineer.
6. Any cost of erection and removal of any temporary fencing, which may be necessary for maintaining security of livestock, etc., on adjacent property during construction of the new fence.

Two sections of farm fabric (47" nominal) meeting the requirements of ASTM A116 and Standard Plans Index 550-001 may be substituted for the one run of 8 feet of fence at no additional cost to the Department. These sections shall be tied together with hog rings every 1-1/2 feet and made of 9 gage steel wire galvanized with a minimum of 0.5 oz./ft² of zinc.

SUBARTICLE 550-6.3 is deleted and the following substituted:

550-6.3 Gate Payment: The quantities to be paid for will be full compensation for all labor, materials, posts, and associated hardware for the complete installation of the type gate specified in the Plans, ~~and accepted by the Engineer.~~