GENERAL NOTES

1. This fence to be provided generally in rural areas. For supplemental information see Section 550 of the FDOT Specifications.

2. Fabric shall be woven wire, either galvanized steel, meeting the requirements of ASTM A426, No. 9 Form, Design Number 1047-6-2, with Class 3 zinc coating, or aluminum coated steel, meeting the requirements of ASTM A596, No. Form, Design Number 1047-6-9, with a minimum coating weight of 0.40 oz./sq. ft. For additional information see payment note below.

3. Fence shall be installed with wire side to private property except on horizontal curves greater than 3° the fence shall be installed so as to pull against posts.

4. Posts may be either timber, steel, recycled plastic or concrete. Unless a specific post material is called for in the plans, the Contractor may elect to use either a single material or combination of timber, steel, recycled plastic or concrete materials. Line posts of one or more materials may be used with corner, pull and end post assemblies of a different material. Line posts of only one optional material and pull post assemblies of only one optional material will be permitted between corner and end post assemblies. Within individual corner and end post assemblies only one optional material will be permitted.

5. Timber posts shall meet the material requirements of Specification Section 954. Timber line posts are to be minimum 4" diameter. Corner posts, pull and approach and end posts are to be a minimum 7" diameter. Timber braces are to be minimum 4" diameter.

6. Steel posts and braces shall be standard steel posts, galvanized at the rate of 2 oz./sq. ft., together with necessary hardware and wire clamps and meeting the following requirements:
   (A) Line posts: 8" long, 1.33 lbs./ft., rolled formed channel, plate attached (23 in ft.)
   (B) Approach posts: 256" x 256" x 5/16" angles, 6" long, fabricated for attaching brace with necessary hardware, clamps, etc.
   (C) Pull and end posts: 256" x 256" x 1/2" angles, 8" long, fabricated for attaching brace with necessary hardware, clamps, etc.
   (D) Braces: 2" x 2" x 1/8" angles with necessary hardware and fabricated for attaching to post.
   (E) The pull, corner, approach and end posts are to be set in concrete as per detail (Also see General Note 15).

7. Recycled plastic posts shall meet the material requirements of specification Section 977 and be one of the products included on the Qualified Products List current at the time of installation. Line posts shall have a minimum section of 4" round or 4" square. Plastic posts shall not be used on corner, pull, end or approach posts unless such use specifically detailed in the plans. Plastic posts can be set by either digging and tamped backfill or by driving into full depth preformed holes 4" to 5" smaller than cross section part. Staples for fabric and barbed wire connection to plastic line posts shall be the same size, count and location as that for timber posts.

8. The Contractor, at his option, may use any suitable precast or prestressed concrete posts; however, approval by the Engineer shall be required prior to such use. Precast posts shall be Class III concrete. Prestressed posts shall be Class III concrete. Lengths of concrete post to be as indicated for timber posts.

9. Aluminum post, braces and accessory framing hardware shall not be used unless the plans specifically detail their application or the Engineer specifically approves their incorporation in fence construction or repair. Aluminum framed gates are permitted as described in General Note 19.

10. The woven wire shall be attached to steel and concrete posts by a minimum of five tie wires. The single wire ties shall be applied 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. Tie wires shall be steel wire not less than 0.250" diameter, 1000 macron Class 3, soft temper, in accordance with ASTM A461.

11. Steel wire shall be fabricated of two strands of 0.110" wire with 0.085" diameter four-point barbs, wire size 16 gauge, twisted in a clockwise direction between the two strands and painted with a maximum spacing of 6". The wire for the strands and for the barbs shall be of ASTM A613, Alloy 5056-0438 or equal.

12. The woven wire shall stretch not more than one-half the tension curbs has been pulled out of the line wires.

13. Posts to be set by driving or digging. If by digging, the posts shall be set at the center of the hole and the top tampered securely on site.

14. Longer posts than those indicated above may be required by the plans or for deeper installations.

15. Concrete bases for angular steel posts (pull, corner, and approach) shall be Class NS as specified in Section 547. Materials for Class NS concrete may be proportioned by volume and/or by weight.

16. Pull post assemblies shall be installed at approximately 330° centers except that this maximum interval may be reduced by the Engineer on curves where the radius is less than 310.

17. Corner post assemblies are to be installed at approximately 135° centers, except that this maximum interval may be reduced by the Engineer on curves where the radius is less than 310.

18. A maximum length of 1320" of wire may be installed as a unit. For pull posts assembled the fabric shall be spaced by 135° unless otherwise specified by the plans. Vertical barbs may be placed in the center of the post at the option of the Engineer.

19. Unless otherwise called for in the plans, gates shall be commercially available metal swing gates assembled and installed in accordance with the manufacturer’s specifications as approved by the Engineer. Chain link gates shall be of the following: 3' high, stile made of steel, rails and pickets of the same material. The total number of gates shall be as specified in the plans. Gate sizes shall be as specified in the plans. Gates shall be fabricated according to General Note 19.

20. For construction purposes, assembles shall be as follows: End post assemblies shall consist of: one corner post and one approach post, two bars, four diagonal tension wires and all necessary fittings and hardware. Pull post assemblies shall consist of: one pull post, two bars, four diagonal tension wires and all necessary fittings and hardware.

21. All posts, braces, tension wires, fabric, tie wires, Class NS concrete, and all miscellaneous fittings and hardware to be included in the cost for Fencing. Fencing shall be inclusive of the lengths of pull, end and corner post assemblies, but exclusive of gate widths.
LINE POST  PULL POST  LINE POST  LINE POST  LINE POST  APPROACH POST  CORNER OR END POST

CONCRETE BASE FOR ANGULAR STEEL POST

FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS

(PULL CORNER, END AND APPROACH POSTS)

DESIGN NOTE
This index details fencing that is constructed with form fabric 4655 (4") nominal) in height and with specific ground clearance and specific barbed wire spacings. For fencing of different height or installation details, the fence shall be fully detailed in the Contract plans.
FASTENER FOR CONCRETE POST AND BRACES

FASTENER FOR TIMBER POST AND BRACE

ALTERNATE CONCRETE POSTS AND BRACES

CORNER POSTS  END AND PULL POSTS

Each horizontal wire to be wrapped around corner and end pull posts and tied to same wire. See General Notes 5 and 17. Timber post illustrated. These methods also apply to steel and concrete post illustrations.