



GENERAL NOTES

- This fence to be used generally in urban areas.
- For supplemental information refer to Sections 550 and FSDOT Standard Specifications.
- Chain link fabric, posts, rails, truss rods, tension wires, tie wires, stretcher bars, gates and all miscellaneous fittings and hardware shall meet the requirements of AASHTO M11 unless otherwise specified by this index. Spliced AASHTO and ASTM signify current reference.
- Fence Component Options:
 - Line post options:
 - Galvanized steel pipe, Schedule 40, 1/2" nominal dia, zinc galvanized at the rate of 1.8 oz/sf; ASTM A53 Table 1, ASTM F1083, and AASHTO M11.
 - Aluminum coated steel pipe; ASTM A53, 2 Tables Schedule 40, 1/2" nominal dia., 1.90" O.D., coated at the rate 0.40 oz/sf; AASHTO M11.
 - Aluminum alloy pipe - 2" nominal dia. ASTM B204 or B221, Alloy 6063, T6.
 - Steel H-Beam - 1/2" x 1/2" x 3/8" Znc Galv. 1.8 oz/sf; AASHTO M11 and Detail.
 - Aluminum alloy H-Beam - 1/2" x 1/2" x 3/8" Galv.; 1.8 oz/sf zinc; AASHTO M11; or, 0.9 oz/sf zinc - 5% aluminum-miscelant; ASTM F3043 and Detail.
 - Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or unspliced stock of discontinued A446/A446M base materials; ASTM F669 Group II (Alternative Design) fence industry 2" O.D., 1/2" NPS, 1.900" dec. equiv., 0.120" min. wall, and min. wt. 2.28 lb/ft; with ASTM F3043 metric equivalent internal coating Types A, B, C and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15 µg/in² min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F3043.
 - Corner, end, and pull post options:
 - Galvanized steel pipe, Schedule 40, 2" nominal dia, zinc galvanized at the rate of 1.8 oz/sf; ASTM A53 Table 1, 2, ASTM F1083, and AASHTO M11.
 - Aluminum coated steel pipe; ASTM A53, 2 Tables Schedule 40, 1/2" nominal dia., 2.375" O.D., coated at the rate 0.40 oz/sf; AASHTO M11.
 - Aluminum alloy pipe - 2" nominal dia. ASTM B204 or B221, Alloy 6063, T6.
 - Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or unspliced stock of discontinued A446/A446M base materials; ASTM F669 Group II (Alternative Design) fence industry 2" O.D., 1/2" NPS, 2.375" dec. equiv., 0.130" min. wall, and min. wt. 3.19 lb/ft; with ASTM F3043 metric equivalent internal coating Types A, B, C and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15 µg/in² min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F3043.
 - Rail options:
 - Galvanized steel pipe, Schedule 40, 1/2" nominal dia, zinc galvanized at the rate of 1.8 oz/sf; ASTM A53 Table 1, 2, ASTM F1083, and AASHTO M11.
 - Aluminum coated steel pipe; ASTM A53, 2 Tables Schedule 40, 1/2" nominal dia., 1.660" O.D., coated at the rate 0.40 oz/sf; AASHTO M11.
 - Aluminum alloy pipe - 1/2" nominal dia. ASTM B204 or B221, Alloy 6063, T6.
 - Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or unspliced stock of discontinued A446/A446M base materials; ASTM F669 Group II (Alternative Design) fence industry 1/2" O.D., 1/2" NPS, 1.660" dec. equiv., 0.111" min. wall, and min. wt. 1.836 lb/ft; with ASTM F3043 metric equivalent internal coating Types A, B, C and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15 µg/in² min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F3043.
- Chain link fabric options (2" mesh with twisted and barbed selvage top and bottom for all options except as described in Note No. 10.):
 - AASHTO M11 Type I - Zinc Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 1.8 oz/sf (M11 Class 0.0 or modified to 1.8 oz/sf).
 - AASHTO M11 Type II - Aluminum Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 0.40 oz/sf.
 - AASHTO M11 Type III - Polyvinyl Chloride (PVC) Coated Steel, No. 9 gage (coated core wire diameter), core wire-zinc coated steel. PVC coatings M11 Class A (either extruded or extruded and bonded) or Class B (bonded). See table right.
- Tension wire options:
 - Steel wire No. 7 gage zinc galvanized at the rate of 1.2 oz/sf; AASHTO M11.
 - Aluminum alloy wire with a diameter of 0.1875" or larger conforming to the requirements of ASTM B201, Alloy 5056 Temper H38, or Alclad Alloy 5056 Temper H9C.
 - Aluminum coated steel wire No. 7 gage coated at the rate of 0.40 oz/sf; AASHTO M11.
- The wire and hog ring options:
 - Steel wire No. 9 gage zinc galvanized at the rate of 1.2 oz/sf.
 - Aluminum alloy wire with a diameter of 0.1443" or larger conforming to the requirements of ASTM B201, Alloy 5056 Temper H38, or Alclad Alloy 5056 Temper H9C.
 - Aluminum coated steel wire No. 7 gage coated at the rate of 0.40 oz/sf.
- Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed above. Combinations of optional materials are restricted as follows: (a) Only one fabric optional material will be permitted between corner and/or end post assemblies. (b) Only one line optional material will be permitted between corner and/or end post assemblies. (c) Pull post assemblies shall be optional materials identical to either the line post optional material or the corner and end post assembly optional material; but, pull post assemblies shall be the same optional material between any set of corner and/or end post assemblies.
- Concrete for bases shall be either Class I concrete or 'Sacrete' premix. Class I concrete shall be as specified in Section 347 of the Standard Specifications except the requirements contained in 347-7 shall not apply. Materials for Class I concrete may be proportioned by volume and/or by weight.
- The line posts are to be set in concrete as detailed above and by the following methods:
 - In accordance with special details and/or as specifically described in the contract plans and specifications.
 - In accordance with ASTM F567 Subsections 4.4, 4.7, 4.8 and 4.10 as approved by the Engineer.
 - In soils that are firm, well drained and suitable for full stable embedment of any of the optional steel posts may be driven in locations approved by the Engineer. Driving will not be permitted in sandy soils. Driven posts shall be set to a minimum depth of 3' for fences up through 6' in height, and, for each 6" fence height over 6' the posts shall be set an additional 6" in depth. Posts shall be protected to prevent damage from driving. Damaged posts shall be repaired or removed and replaced as directed by the Engineer without additional cost to the Department.
- Posts mounted on concrete structure or solid rock shall be installed in accordance with the base plate detail 'Fence Mounting On Concrete Endwalls And Retaining Wall', Sheet 2; or, by embedment in accordance with ASTM F567 Subsection 4.5.
- End, pull and corner post assemblies shall be set in concrete as detailed above for all soil conditions other than solid rock. Posts within assemblies that are located on concrete structures or solid rock shall be set by base plate or by embedment as prescribed under (b) above for line posts.
- Line and assembly posts set in concrete bases shall be set an additional 3" in depth for each 6' fence height greater than 6'.
- Corner posts shall be used at breaks in vertical grades of 15° or more, or at approximately 350° corners except that this maximum interval may be reduced by the Engineer on curves where the curve is greater than 3".
- Corner posts are to be installed at all horizontal breaks in fence of 15° or more and as required at vertical breaks over 15° as determined by the Engineer.
- When fence has an installed top of fabric height less than 6', knuckled top and bottom selvages shall be used unless the plans specifically identify locations for twisted selvage fabrics.
- Unless stiling gates or special gates are called for in the plans, all gates shall be chain link swing gates meeting the material requirements described above as approved by the Engineer. Payment shall include the gates, single or double, all necessary hardware for installation and any additional length and/or size for posts at the opening. Gates shall be paid for under the contract unit price for Fence Gates, Type B, EA.
- The posts, tension wires, chain link fabric, tie wires, Class I concrete, and all miscellaneous fittings and hardware to be included in the cost for Fencing Type B, LF. The standard 6' high fence shall be paid for under the contract unit price for Fencing Type B, LF. Fence having other height, line components and/or barbed wire attachments shall be paid for under the contract unit price for Fencing Type B (), LF.
- Corner post assemblies shall consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed above and shall be paid for under the contract unit price for Corner Post Assembly (Type B Fence), EA.
- End post assemblies shall consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed above and shall be paid for under the contract unit price for End Post Assembly (Type B Fence), EA.

TYPE II VINYL COATED FABRIC								
Specification Section 966 And AASHTO M11 Table 4 Redefined As Follows								
Specified Diameter Of Metallic Coated Core Wire	Minimum Weight Of Zinc Coating	PVC Thickness Range						
		M11 Class A (Extruded Or Extruded And Bonded Coating)		M11 Class B (Bonded Coating)				
in.	mm	g/oz/sf	g/m ²	in.	mm	in.	mm	
0.148	3.77	9	0.30	92	0.015 to 0.025	0.38 to 0.64	0.006 to 0.090	0.15 to 0.25

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN

FENCE TYPE B

Designed By	Checked By	Approved By
Drawn By	Scale	Date
Checked By	Sheet No.	Total Sheets

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cont.

