

## general notes

1. This fence to be used generally in urban areas.
2. For supplemental information refer to Section 550 of FDOT Standard Specifications
3. Chain link fabric, post, truss rods, tension wires, tie wires, stretcher bars, gates and all miscellaneous
fittings and hardware shall meet the requirements of AASHTO and ASTM signify current reference.
4. Fence Component Options:
A. Line post options:
(1) Galvanized steel pipe, Schedule 40-11/"n nominal dia. zinc galvanized at the rate of $1.8 \mathrm{oz} . / \mathrm{ft}^{2}$.,
(2) Aluminum coated steel pipe: ASTM A53, Table 2 (Grade A or B): Schedule 40-11/2" nominal dia., $1.90^{\circ}$ OD
(3) Aluminum the rate 0.40 oz./ft.; AASHTO M111

(5) Aluminum alloy H -Beam- $177_{8}^{\prime \prime} X 1 \xi_{/^{\prime \prime}}$ Detail.

 (Alternative Design); fence industry $2^{\prime \prime} 00,11 / /^{\prime \prime}$ NPS, $1.900^{\prime \prime}$ dec. equiv., $0.120^{\prime \prime \prime}$ min. wall thick. and min. wt. 2.28 Ib./ft.; with ASTM F1043 metric equivalent internal coating Types A,
B, C or $D$ and external coating Types A, B, or C; the chromate conversion coating of external
 thickness of $0.0003^{\prime \prime}$ min
of Table 2, ASTM F1043.
B. Corner, end, and pull post options:

Corner, end, and pull post options:
(1) Galvanized stel pipe, Schedule 40-2" nominal dia. zinc galvanized at the rate of $1.8 \mathrm{oz.fft}$.
ASTM A35 Table X 2 , ASTM F1083 and ASHTO M11. (2) Aluminum coated steel pipe: ASTM' A53 steel, $\times 2$ Tables: Schedule 40; $2^{\prime \prime}$ nominal dia.

(3) Aluminum alloy pipe- $21 / 2$ nominal dia.: ASTM B2 21 or B221, Alloy $6063, T 6$.
(4) Resistance welded stel polipe 50.000 pisi min. yield strength ASTM A569/A59M, A653/A653M




C. Rail options
(1) Galvanized steel pipe, Schedule 40-11/4" nominal dia. zinc galvanized at the rate of 1.8 oz.ffta
(2) ATM A53 Table $\times 2$, ASTM F1083, and AASHTO M111.
coated steel pipe; ASTM A53 steel, $\times 2$ Tables Schedule 40; $11 / 4^{\prime \prime}$ nominal dia.
$1.660^{\prime \prime}$ Do, coated at the rate o.40 20..fft. AASHTO M111.
(3) Aluminum alloy pipe- $11 / 4^{n}$ nominal dia.: ASTM B241 or B221, Alloy 6063 , T6.
(4) Resistance welded steel pipe; 50,000 psi min. yeild strength ASTM A569/A569M, A653/A653M
or undepleted stock of discontinued A446/A446M base materials. ASTM F669 Group

 D and external coating Types A, B, or C; the chromate conversion coating of external Type B
shall have a thickness of $15 \mu \mathrm{~g} / \mathrm{in}^{2}$. min. and the polymer film topcoat shall have a thickness of

D. Chain link fabric options (2" mesh with twisted and barbed selvage top and bottom for all options except as described in Note No. 10):

(3) At the rate of O.40 OZ./ft M181 Type IV-Polyvinyl Chloride (PVC) Coated Steel, No. 9 guage (coated core wir diameter), core wire-zinc cooted steel. PCC coatitn: M181 Class A (either extruded or extruded
and bonded) or Class B (bonded). See table right. Unless the plans call for M181 standard and bonded) or Class B (bonded). See table right. Unless the plans call for M181 standard
colors medium green, dark green or black the coating color shall be soft gray matching that of
No. 3662 of Federal standard 595 年 colors medium green, dark green or bl
No. 36622 of Federal Standard 595a.
E. Tension wire options:
(1) Steel wire No. 7
 (2) Aluminum alloy wire with a diameter of 0.1875 "or larger conforming to the requirements
of ASTM B211, Alloy 5056 Temper H38, or, Alclad Alloy 5056 Temper H192.
F. Tie wire and hog ring options
(1) Steel wire No. 9 gage zinc
(1) Aleem wire No.9 gage zinc galvanized at the rate of 1.2 oz./ft ${ }^{2}$.
(1).
Alsinum allo w wire with a diameter of O.14433 or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or, Alclad Alloy 5056 Temper H 192 .
(3) Aluminum coated steel wire No. 7 gage coated at the rate of 0.040 oz.ft

## GENERAL NOTES CONTINUED

5. 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 in note 4 . Combinations of optional materials are restricted as follows:
(a) Only one fabric optional material f will be permitted between corner and/or end post assemblies.
(b) Only one line post optional material will be permitted between corner and /or end post assemblies, (c) Pull post assemblies shall be optional materials identical to either the linepost optional material or the corner and end post assembly optional material; but, pull post assemblies shall be the same
Oncrete for bases shall been any set of corner and/or end post assemblies.
6. Concrete for bases shall be Class NS concrete as specified in Section 347 of the Standard Specifications
or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for
Class NS Class NS concrete may be proportioned by volume and/or by weight.
7. Line post shall be $8^{\prime \prime} 6^{\prime \prime}$ long (Standard). Line post are to be set in concrete as described above or (a) In accordance with special details and/or as specifically described in the contract plans and (b) In accordanc
(b) In accordance with ASTM 5567 Subsections 5.4 through 5.10 as approved by the Engineer. (c) Post mounted on concrete structure or solid rock shall be mounted. in accordance with the base
plate detail "Fence Montr plate detail "Fence Mounting on Concrete Endwath
in accordance with ASTM F567 Subsection 5.5.
End, pull and corner post assemblies shall be in concrete as detailed above for all soil conditions other than
solid rock. Post within assemblies that are located on concrete structures or solid rock shall be set by solid rock. Post within assemblies that are ocated on concrete structures or solid rock shall be set by
base plate or by embedment as prescribed under (b) above for line post.
Line and assembly posts for $6^{\prime}$ fence which must be lengthened due to a variation in the normal ground
clearance, shall be set an additional $3^{\prime \prime}$ in depth for each 1' of of additional ground clearance.
8. Pull post shall be used at breaks in vertical grades of $15^{\circ}$ or more, or at approximately $355^{\circ}$ centers
except that this maximum interval may be reduced by the Engineer on curves where the curve is except that this
greater than $3^{\circ}$
9. Corner post are to be installed at all horizontal breaks in fence at $15^{\circ}$ or more and as required at vertical
breaks over $15^{\circ}$ as determined by the Engineer.
io. Wen ferce has an intalia top or fabric
10. When fence has an installed top of fabric height less than $6^{\text {' }}$ knuckled top and bottom selvages shall
be used unless the plans specifically identify locations for twisted selvage fabrics.
11. Unless sliding gates or special gates are called for in the plans, all gates shall be chain link swing gates gates, single or double, all necessary hardware for installation and any additional length and/or size for
12. For construction purposes corner post assemblies shall consist of one corner post, two braces, two truss
rods, and all necessary fittings and hardware as detailed. End post assemblies shall consist of one end post, roas, race, one truss rod and all necessary fittings and hardware as detailed.
13. In areas where there are physical constraints outside the right-of-way which restricts the fence construction,
the fabric may be installed on the inside of the posts..

| TYPE IV VINYL COATED FABRIC |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AASHTO M181 Table 4 Redefined As Follows |  |  |  |  |  |  |  |  |
| Specified Diameter Of Metallic Coated core Wire |  |  | Minimum Weight <br> Of Zinc Coating |  | PVC Thickness Range |  |  |  |
|  |  |  | M181 Class A (Extruded Or Extruded And Bonded Coating) | M181 Class B(Bonded Coating) |  |
| in. | mm | gage |  |  | oz./ft ${ }^{\text {a }}$. | $\mathrm{g} / \mathrm{m}^{2}$ | in. | mm | in. | mm |
| 0.148 | 3.77 | 9 | 0.30 | 92 | $\begin{aligned} & 0.015 \\ & \text { to } \\ & 0.025 \end{aligned}$ | $\begin{aligned} & 0.38 \\ & 0.38 \\ & 0.64 \end{aligned}$ | $\begin{aligned} & 0.006 \\ & \text { o.0 } \\ & 0.010 \end{aligned}$ | $\begin{aligned} & 0.15 \\ & 0.15 \\ & 0.25 \end{aligned}$ |

## DESIGN NOTE

his index details fencing that is constructed with chain link fabric $6^{\prime}$ (nominal) in for fencing of different height or installation details, the fence shall be fully detailed in the Contract plans.


OPTIONAL "C" LINE POST




FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS (REFER TO DETAIL PLANS FOR FENCE POSITION AT
LOCAEIONS WITH FRONTAGE ROADS)


NOTES
Attachments to be used only when called for in the plans. Attachments ted for in plans, direction of restraint will be as follows:
(a.) Outward on limited access right of way line.
(b.) Outward on controlled access right of way
(b.) Outward on controlled access right of way line.
(c.) outward from utilities and hazardous facilities located
(d.) Within highway right of way. fros, from lateral ditches, outfalls, retention basins
(d.) Outward from lateral ditches, outfalls, retention basin
canals, borrow areas and similat support facilities.
(e.) Inward on pedestrian ways.
(e) Inward on pedestrian ways.

The cap-arm shall ee designed to provide a drive fit over the top
of posts and to exclude moisture in posts with tubular sections.

Ms" Dia. Hole For 3/"Anchors,
Nuts And Washers


TOP VIEW
two anchor plate option

## BARB WIRE ATTACHMENT

## base plate and anchor notes:

1. Base plate identical for line, pull, end and corner posts and shall be
considered an integral part of the respective posts for basis of payment.
2. Post to be plumbed by grout shim under base plate.
3. Anchors (Galvanized Steel):
$12^{\prime \prime}$ Cast In Place, $101 /{ }^{1 / \prime \prime}$ Embedment:
$8^{\prime \prime} \begin{gathered}\text { Headed Bolts. } U \text { U-Bolts or Cluster Plates } \\ \text { Adhesive Anchors, } 6^{\prime} \text { Min. Embedment.* } \\ \text { *Adhes }\end{gathered}$
*Adhesive anchors shall be headdens. anchor bolts set in drilled
holes with an Adhesive Material System in accordance with holes with an Adhesive Material System in accordance with
Specification Sections 416 and 937 ; drilled holes shall be $1 / 8^{\prime \prime}$ larger in diameter than the anchor bolt.
Expansion Bolts Not Permitted.
fence mounting on concrete endwall and retaining walls

| LAST | DESCRIPTION: |
| :---: | :---: | :---: |
| REISION |  |
| O7/01/09 |  |
|  |  |

FDOF̄\} $\begin{gathered}\text { FY 2016-17 } \\ \text { DESIGN STANDARDS }\end{gathered}$

