

SECTION 02830 - CHAIN LINK FENCE

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Furnish and install fence materials.
 - 1. The extent of fencing is shown on the drawings.
 - 2. Install privacy slats when opaque screening is required by municipality or Walgreens.

1.02 QUALITY ASSURANCE

- A. All work to be performed by a single firm specializing in chain link fences.
- B. All fence materials shall be manufactured by a single source.
- C. Comply with the recommendations of the Chain Link Manufacturers Institute and ASTM F-668.
- D. Install fencing in compliance with ASTM F-567.

PART II - PRODUCTS

2.01 FENCE FABRIC

- A. Fabric: 9 gage (0.148") steel wires, 2" mesh with top selvages knuckled and bottom selvages twisted and barbed.
 - 1. Breaking strength: 1,290-lb minimum.
 - 2. Weight of metallic coating; 0.30 oz./ft² minimum zinc or zinc-5% aluminum alloy coating.
- B. Fabric Finish: Class 2a PVC coated steel chain link.
 - 1. PVC coating: 0.015-in. minimum thickness at any point, 0.025-in. maximum thickness at any point.
 - 2. Color: Black.

2.02 FRAMING AND ACCESSORIES

- A. Steel Framework, General: Galvanized steel, ASTM A-123.
 - 1. Pipe: Type 1 or Type 2 round galvanized pipe.
 - 2. Zinc Coating: ASTM A-90.
 - Type 1 not less than 1.8 oz./ft².
 - Type 2 not less than 2 oz./ft².
 - 3. Type 2 not less than 2 oz./ft².
- B. Terminal, Corner, Pull and Gate Posts: 2.375" dia. (nom. o.d.) pipe.
- C. Rails and Post Braces: Not less than 1.66" dia. (nom. o.d.) pipe. Top rails in a continuous run shall not be less than 18 ft. long.

- D. Intermediate Posts: Not less than 1.90" dia (nom. o.d.) pipe spaced not exceeding 8'- 0" o.c.
- E. Gate Frames: Not less than 1.90" dia (nom. o d) pipes with welded corners.
- F. Post Tops: Weathertight ornamental closure caps, fitting over each post, provide caps with loop to receive top rails.
- G. Tension Bars: Not less than $\frac{3}{16}$ " x $\frac{3}{4}$ " and not less than 2 " shorter than normal height of fabric being attached. Provide one for each end and gatepost, two at each corner of pull post.
- H. Tension Wire: 9 gage (0.148 in.) metallic coated core wire, breaking strength 1,290 lb, with class 2a PVC coating, color to match fence fabric.
- I. Ties or Clips: Sufficient quantity and strength to support fabric, but not exceeding 15 " intervals at posts nor 24" intervals at top rails. Tie wire shall be 11 gage galvanized steel wire, finish to match fabric.
- J. Bands or Clips: ASTM F-626 galvanized steel in sufficient quantity to attach fabric and stretcher bars to all terminal posts at intervals not exceeding 15 ".
 - 1. Tension bands shall be flat or beveled steel, min. thickness after galvanizing of 0.078", min. width of $\frac{3}{4}$ " for posts 4"o.d. or less. Min. thickness after galvanizing of 0.108", min. width of $\frac{7}{8}$ " for posts larger than 4"o.d.
 - 2. Brace bands shall be flat or beveled steel, min. thickness after galvanizing of 0.108", min. width of $\frac{3}{4}$ ". Attachment bolts shall be $\frac{3}{16}$ " x 1 $\frac{1}{4}$ " galvanized carriage bolts with nuts.
- K. Top Rail Couplings: Galvanized, 6" min. length.
- L. Privacy Slats; Semi-rigid tubular PVC (polyvinyl chloride) or HDPE (high density polyethylene) inserts, with Ultraviolet inhibitors, installed vertically, each slat secured top or bottom with self locking track or continuous tubular insert. Winged inserts not acceptable.
Width: Slat shall be sized to fill the entire void between fence fabric links and block not less than 75% of the view through the fence fabric.

Tensile Strength: 3,700 psi.
Flexural strength: 12,000 psi.
Impact strength: 4.0 ft-lb./inch @ 23° C (73° F).
Acceptable styles: Hoover Fence Co. "Lock-Top Slat", Privacy Link Co. "Lite Link Slat", "Bottom-Lock Slat", "Top-Lock Slat" or equal.
Color: To be selected by Walgreens.

2.03 GATES

- A. Frames: Zinc coated conforming to ASTM F-1043 and/or ASTM F-1083. Coat welded joints in accordance with ASTM A 780. Install diagonal cross bracing to ensure rigidity.
- B. Gate fabric shall match fence fabric.

- C. Gate Hinges shall structurally support gate without sag, and allow gate to swing 180^o without binding. Provide 1 ½ pair per leaf.
- D. Gate Latches: Fork or plunger bar type for operation from either side of gate, with integral padlock eye. Single latch shall retain gate in closed position. Double gate latches shall be a drop rod or plunger bar, designed to engage a gate stop. Both leaves to be locked with single padlock.

PART III - EXECUTION

3.01 INSTALLATION

- A. Terminal Posts (end, corner and gate): shall be set at beginning and end of each continuous length of fence or horizontal alignments.
- B. Post Foundations: concrete, with hole diameters as shown, but not less than four times the largest cross section of post and hole bottom not less than 48" below finish grade. Crown concrete to shed water.
 - 1. Concrete: 2500 psi at 28 days
Portland Cement: ASTM C-150.
Aggregates: ASTM C-33, 1" max. size.
Water: Drinkable.
Slump: 3"
Air Entrainment: 2% to 4%.
 - 2. Set bottom of posts 3" above bottom of hole.
- C. Posts: Set vertically, plumb and properly aligned.
- D. Top Rails: Run continuously through post caps, support at each end to form continuous brace from end to end, provide expansion couplings as necessary.
- E. Fence Fabric: Place on outside of enclosed area. Provide tension to remove slack and create a smooth uniform, sag free appearance. Secure to posts at intervals not exceeding 15" o.c. and to rails at intervals not exceeding 24" o.c. Install fabric bottom 4" above finished grade. Fabric shall be continuous between terminal posts.
- F. Brace Assemblies: Install so posts are plumb when diagonal rod is under proper tension.
- G. Stretcher Bars: Thread through or clamp to fabric at 4" o.c. and secure to posts with metal bands spaced 15" o.c. max.
- H. Tie Wires: U-shaped conforming to diameter of pipe to which attached. Firmly clasp pipe and fabric and twist ends 2 full turns. Bend wire ends to minimize hazard to persons/clothing.

END OF SECTION

