

SECTION 32 31 13 - CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fence framework, fabric, and accessories.
2. Excavation for post bases.
3. Concrete foundation for posts and center drop for gates.
4. Manual gates and related hardware.
5. Privacy slats.

1.2 UNIT PRICE - MEASUREMENT AND PAYMENT

A. Fencing:

1. Basis of Measurement: By linear foot to fence height specified, based on specified post spacing.
2. Basis of Payment: Includes posts, rails, tension wire, fabric, accessories, attachments.

B. Post Footings:

1. Basis of Measurement: Each unit footing, to depth specified.
2. Basis of Payment: Includes excavation, concrete placed, finishing.

C. Gates:

1. Basis of Measurement: Each specified type.
2. Basis of Payment: Includes frame posts, fabric, accessories, hardware.

1.3 SYSTEM DESCRIPTION

A. Fence Height: as indicated.

B. Line Post Spacing: At intervals not exceeding 10 feet.

C. Fence Post and Rail Strength: Conform to ASTM F1043 quality.

1.4 SUBMITTALS

A. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.

B. Product Data: Fabric, posts, accessories, fittings and hardware.

## 1.5 QUALITY ASSURANCE

- A. Perform installation according to ASTM F567.
- B. Perform Work as indicated on drawings.
- C. Manufacturer: Company specializing in manufacturing products specified in this Section with 3 years' experience.
- D. Installer: Company specializing in performing work of this Section 3 years' experience.

## PART 2 - PRODUCTS

## 2.1 MATERIALS AND COMPONENTS

- A. Materials and Components: Conform to CLFMI Product Manual.
- B. Intermediate Posts: Type I round.
- C. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round.

## 2.2 COMPONENTS

- A. Line Posts: 2.38 inch diameter.
- B. Corner and Terminal Posts: 3.5 inch.
- C. Gate Posts: 3.5 inch diameter.
- D. Top and Brace Rail: 1.66 inch diameter, plain end, sleeve coupled.
- E. Gate Frame: 1.66 inch diameter for welded fabrication.
- F. Tension Wire: 6 gage thick steel, single strand, marcelled, spiraled or crimped, aluminum-coated tension wire conforming to ASTM A824.
- G. Tie Wire: Aluminum alloy steel wire.

## 2.3 ACCESSORIES

- A. Caps: Cast steel, galvanized; sized to post diameter; set screw retainer.
- B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; galvanized steel.
- C. Gate Hardware: Center gate stop and drop rod; **two 180** degree gate hinges for each leaf.

## 2.4 GATES

### A. General:

1. Gate Types, Opening Widths and Directions of Operation: As indicated.
2. Factory assemble gates.
3. Design gates for operation by one person.

### B. Swing Gates:

1. Fabricate gates to permit 180-degree swing.
2. Gates Construction: ASTM F900 with welded corners. Use of corner fittings is not permitted.

## 2.5 FINISHES

- ### A. Components and Fabric: Vinyl coating, black color according to ASTM F934.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- #### A. Install framework, fabric, accessories and gates according to ASTM F567.
- #### B. Set intermediate, terminal, gate, and posts plumb, in concrete footings with top of footing 6 inches (150 mm) below finish grade.
- #### C. Line Post Footing Depth Below Finish Grade: ASTM F567 0.5 feet.
- #### D. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567 0.5 feet.
- #### E. Brace each gate and corner post to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail one bay from end and gate posts.
- #### F. Install top rail through line post tops and splice with 6 inch long rail sleeves.
- #### G. Install center and bottom brace rail on corner gate leaves.
- #### H. Place fabric on outside of posts and rails.
- #### I. Do not stretch fabric until concrete foundation has cured 28 days.
- #### J. Stretch fabric between terminal posts.
- #### K. Position bottom of fabric 2 inches above finished grade.
- #### L. Fasten fabric to top rail, line posts, braces, and bottom tension wire with tie wire at maximum 15 inches on centers.

- M. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips.
- N. Install bottom tension wire stretched taut between terminal posts.
- O. Support gates from gate posts. Do not attach hinged side of gate from building wall.
- P. Install gate with fabric to match fence. Install three hinges on each gate leaf, latch, catches, drop bolt.
- Q. Provide concrete center drop to footing depth and drop rod retainers at center of double gate openings.
- R. Excavate holes for posts to diameter and spacing indicated on Drawings without disturbing underlying materials.

### 3.2 ERECTION TOLERANCES

- A. Maximum Variation from Plumb: 1/4 inch.
- B. Maximum Offset from Indicated Position: 1 inch
- C. Minimum distance from property line: 6 inches.

END OF SECTION 323113