

## SECTION 323113 - CHAIN-LINK FENCES

### PART 1 - GENERAL

#### 1.1 RELATED SECTIONS

- A. 033000: Concrete

#### 1.2 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Quality Standard: Comply with CLFMI CLF 2445, unless otherwise indicated.

### PART 2 - PRODUCTS

#### 2.1 FENCE COMPONENTS

- A. Fabric: Galvanized wire, zinc coated, ASTM A 392, 1.2 ounce per square foot, Class 1, metallic coated steel. Provide 2-inch mesh, 0.120-inch (11 gauge) diameter wire, top knuckle selvage, bottom twisted selvage at perimeter fence.
- B. Posts and Rails: Type I steel pipe, ASTM F 1083, standard weight schedule 40; minimum yield strength of 25,000 psi; sizes as indicated. Hot dipped galvanized with minimum average 1.8 ounce per square foot of coated surface area.
- C. Tension Wire: Metallic coated, ASTM A 824.
- D. Fittings and Accessories: ASTM F 626 and as follows:
  - 1. Post and Line Caps: Formed steel, cast malleable iron. Provide weather tight cap for each post. Provide line post caps with loop to receive tension wire or top rail.
  - 2. Top Rail and Brace Rail Ends: Pressed steel per ASTM F626, for connection of rail and brace to terminal posts.
  - 3. Top Rail Sleeves: 7" expansion sleeve with spring, allowing for expansion and contraction of top rail.
  - 4. Wire Ties: 0.148-inch (9 gauge) galvanized steel wire for attachment of fabric to line posts. Double wrap 0.092-inch (13 gauge) for rails and braces. Hog ring ties of 0.0985-inch (12 ½ gauge) for attachment of fabric to tension wire.
  - 5. Tension (Stretcher) Bars: One piece lengths equal to two inches less than full height of fabric with a minimum cross section of 3/16" x 3/4". Provide tension (stretcher) bars where chain link fabric meets terminal posts.
  - 6. Tension Wire: Galvanized coated steel wire, 0.177-inch (7 gauge) diameter wire with tensile strength of 75,000 psi.
  - 7. Nuts and Bolts: Galvanized.

- E. Setting Materials:
  - 1. Concrete: Minimum 28 day compressive strength of 3,000 psi.
  - 2. Drive Anchors: Galvanized angles, ASTM A 36 steel 1” x 1” x 30” galvanized shoe clamps to secure angles to posts.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Verify areas to receive fencing are completed to final grades and elevations.
- B. Ensure property lines and legal boundaries of work are clearly established.
- C. Install fence to comply with ASTM F 567.
- D. Locate terminal post at each fence termination and change in horizontal or vertical direction of 30 degrees or more.
- E. Space line posts uniformly at 10 feet on center maximum.
- F. Concrete Set Line and Terminal Posts: Drill holes in firm, undisturbed or compacted soil. Holes shall have diameter 4 times greater than outside dimension of post, and depths approximately 6 inches deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. Set post bottoms 36” below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour. Trowel finish around post to drain water away
- G. Check each post for vertical and top alignment and maintain in position during placement and finishing operations.
- H. Tension Wire: Provide tension wire at bottom of fabric. Install tension wire before stretching fabric and attach to each post with ties. Secure tension wire to fabric with 0.0985-inch (12 ½ gauge) hog rings 24 inches on center.
- I. Top Rail: Install lengths, 21 feet. Connect joints with sleeves for rigid connections for expansion / contraction.
- J. Fabric: Install fabric on security side and attaché so fabric remains in tension after pulling force is released. Leave approximately 2 inches between finish grade and bottom selvage. Attach fabric with wire ties to line posts at 15 inches on center and to rails, braces and tension wire at 24 inches on center.
- K. Tie Wires: Bend ends of wire to minimize hazard to persons and clothing.
- L. Fasteners: Install nuts on side of fence opposite fabric for added security.
- M. Clean up debris and unused material and remove from site.

END OF SECTION 323113