

SECTION 107 – CHAIN LINK FENCING

1. GENERAL

The extent of chain link fencing is indicated on drawings. The contractor shall provide a four (4) foot chain link fence, including all erection accessories, fittings and fastenings. The Contractor shall deliver material in manufacturer's original packaging with all tags and labels intact and legible. All material shall be handled and stored in such a manner as to avoid damage.

2. POSTS, RAILS AND BRACES

All tubular members shall comply with provision of ASTM-A120 for weight and coating. All structural shapes shall comply with provisions of ASTM-A123 for galvanized coating. Gate posts shall be 2.875 inches o.d. pipe weighing 5.79 pounds per linear foot. Contractor shall provide means for attaching existing top rail securely to each gate. Tension wire shall be 7 gauge galvanized coiled spring wire.

3. CHAIN LINK FABRIC

The contractor shall furnish fabric with a 2 inch mesh and 11 gauge wire. The top and bottom of fabric shall have twisted selvages. The finish shall be heavy galvanized, 2.0 ounces zinc per square foot, complying with ASTM-A392, Class II.

4. ACCESSORIES

All accessories except tie wires shall be galvanized to comply with ASTM-A153. Stretcher bars shall be one piece lengths equal to full height of fabric with a minimum cross-section of 3/16" x 3/4." The Contractor shall provide stretcher bars for gate post. Stretcher bar bands shall be heavy pressed steel, or malleable iron, spaced not over 15 inches o.c. to secure stretcher bars to gate post.

5. GATES

The Contractor shall fabricate gate perimeter frames of 1.90" o.d. tubular members Weighing 2.72 lbs. per linear foot. He shall also provide additional horizontal and vertical members to ensure proper gate operation and for attachment of fabric, hardware and accessories. The gate frames shall be assembled by welding or fittings and rivets for rigid connections. The gate fabric shall be similar to the fence fabric, unless otherwise indicated. The Contractor shall install fabric with stretcher bars at vertical edges, and tie wires at top and bottom edges. He shall attach stretcher bars to gate frame at not more than 15 inches o.c.. He shall also attach hardware with rivets or by other means which will provide security against removal or breakage. The Contractor shall provide diagonal cross-bracing consisting of 3/8" diameter adjustable length truss rods on gates where necessary to provide frame rigidity without sag or twist.

The Contractor shall also provide the following hardware and accessories for each gate:

- A. Hinges. Pressed steel or malleable iron to suit gate size, non-lift-off type, offset to permit 180° gate opening.
- B. Latch. Forked type or plunger-bar type to permit operation from either side of gate.

Provide padlock eye as integral part of latch.

6. MISCELLANEOUS MATERIAL AND ACCESSORIES

For tying fabric to rails and braces, the Contractor shall use 9 gauge aluminum wire ties spaced 24 inches o.c.. For tying fabric to tension wire, he shall use 11 gauge hog rings spaced 24 inches o.c..

7. INSTALLATION

The drill holes for post footings shall be in firm, undisturbed or compacted soil. The holes shall have a diameter equal to 3 times the diameter of the post. The contractor shall excavate the hole depth approximately 3 inches lower than post bottom with bottom of posts set not less than 36 inches below surface when in firm, undisturbed soil. He shall excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads.

The Contractor shall place concrete around posts in a continuous pour, tamp for consolidation. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.

Contractor shall trowel finish tops of footings, and slope or dome to direct water away from posts. Extend footings for gate posts to the underside of bottom hinge. Set keepers, stops, sleeves and other accessories into concrete as required. Brace assemblies shall be installed so posts are plumb when diagonal rod is under proper tension. The tension wire shall be installed before stretching fabric and tied to each post with wire ties or clips. Fabric shall be installed with approximately 2 inches between finish grade and bottom selvage. The fabric shall be pulled taut and tied to posts, rails and tension wires. The fabric shall be installed on security side of fence and anchored to framework so that fabric remains in tension after pulling force is released. Stretcher bars shall be threaded through fabric and secured to posts with metal bands spaced not over 15 inches o.c.. The gate shall be installed plump, level and secured for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by the fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary. Tie wires shall use U-shaped clips of wire, securely fastened around pipe to which attached, clasping pipe and fabric firmly. Bend ends of wire to minimize hazard to person or clothing. Fasteners shall be installed with nuts for tension band and hardware bolts on side of fence opposite fabric side.

All Concrete construction shall be in accordance with Section 202, entitled "Concrete Work."