

SECTION VIII. STEEL REINFORCEMENT

- A. Materials & Placement
- B. Inspection

A. MATERIALS & PLACEMENT

1. Materials:

a. Bars: All steel bars used for concrete reinforcement shall conform to all the requirements of the "Standard Specifications for Billet-Steel Bars for Concrete Reinforcement", ASTM Designation A15-39, intermediate grade.

b. Welded Steel Wire Fabric: Welded steel wire fabric shall conform to ASTM A-185.

2. Storage and Protection: All reinforcement steel shall be stored in such manner as to be protected from the elements. It shall be stored on skids or other supports and shall be protected against physical damage. No bars that are bent, twisted, kinked or warped shall be used in the work. No bars that have been bent shall be straightened and used in the work.

3. Surface Condition: All Steel shall be clean and free from mill scale, flakes of loose rust, cement, concrete, paint, oil, grease or any other foreign material, except that a thin layer of tightly adhering rust may be permitted if approved.

4. Cutting and Bending: All cutting and bending shall be done at the mill or shop, unless satisfactory provisions are made for handling this work in the field. The radius of curvature of the bends shall not be less than four (4) diameters. All bending shall be done cold. Heating preparatory to bending will not be permitted. All steel shall conform accurately to the dimensions shown on the plans.

5. Placing: All reinforcement bars shall be placed accurately, as shown on the plans, wired at intersections and spaced and supported by means of metal chairs, spacers, hangers or other devices approved. The placing of bars on layers of fresh concrete as the work progresses will not be permitted. The reinforcement shall be securely bound together and rigidly held in the required position. Where splices are made, the bars shall be lapped forty (40) diameters or a minimum of twenty four inches (24") and tightly wired together.

B. INSPECTION

No concrete shall be placed in any reinforced concrete structure until the steel and its placement has been inspected and approved by the City and the contractor has been given permission to proceed with the placing of concrete. Any concrete placed in violation shall be rejected and shall be removed by the contractor at his/her own expense.