

1.0 GENERAL

1.1 Requirements

- .1 Cooperate and coordinate with the requirements of other units of work specified in other sections.

1.2 Work Included

- .1 This section specifies requirements for supplying and placing reinforcing steel for concrete structures.

1.3 Related Work Specified Elsewhere

- .1 Concrete Formwork Section 03100
- .2 Cast-in-Place Concrete Section 03300

1.4 Reference Standards

- .1 CSA A23.1.

1.5 Delivery and Storage

- .1 To CSA A23.1.
- .2 Store materials on raised supports in a manner to prevent material from coming in contact with the ground.

1.6 Shop Drawings

- .1 Submit for approval for Engineer 5 copies of shop drawings within 2 weeks of award of contract and 1 week prior to concrete pour.
- .2 Regardless of approval of shop drawings by Engineer, be responsible for fit, conformity or performance in accordance with drawings and specifications.

2.0 PRODUCTS

2.1 Materials

- .1 Reinforcing Steel: to CSA G30.12 Billet Steel Grade 400 deformed bars. Furnish bars in full lengths shown.
- .2 Wire Ties: Plain, cold drawn annealed steel wire.
- .3 Supports: Supply approved supports and chairs of strong, durable, non-corrodible materials which fasten or tie securely to reinforcing steel. Galvanized metal or plastic chairs, concrete blocks or other devices may be

used provided they satisfy requirements of this section and are approved by Engineer.

3.0 EXECUTION**3.1 Field Bending**

- .1 Do not field bend reinforcement except where indicated or authorized by Engineer.
- .2 When authorized, bend without heat, applying a slow and steady pressure.
- .3 Replace bars which develop cracks or splits.

3.2 Placing

- .1 Accurately place reinforcing steel in positions indicated and hold firmly during placing, compacting and setting of concrete.
- .2 Tie reinforcement where spacing in each direction is:
 - .1 Less than 300 mm: tie at alternate intersections
 - .2 300 mm or more: tie at each intersection

3.3 Splicing

- .1 Make no splices of reinforcement other than those indicated or authorized by Engineer.
- .2 Splice reinforcing bars and mesh to CAN3-S6.

3.4 Welding

- .1 Welding reinforcing steel not acceptable.
- .2 When authorized, weld to CSA W186. Use only welders qualified under provisions of CSA W47.1.
- .3 Do not weld stirrups to main tension reinforcement.

3.5 Cleaning

- .1 To CSA A23.1-94.

3.6 Inspection

- .1 Do not place concrete until Engineer has inspected reinforcement work in place.

END OF SECTION