PART 1 - GENERAL

1.1 Related Work

.1	Concrete Formwork	Section 03100
.2	Cast-in-Place Concrete	Section 03300
.3	Pre-cast Architectural Concrete	Section 03400

1.2 References

.1 Do reinforcing work in accordance with CAN/CSA-A23.1-M90.

.2 Do welding of reinforcement in accordance with CSA-W186-M, except where specified otherwise.

1.3 Source Quality

.1 Upon request, provide *Contract Administrator* with certified copy of mill test reports of reinforcing steel, showing physical and chemical analysis, minimum 5 weeks prior to commencing reinforcing work.

.2 Upon request, inform *Contract Administrator* of proposed source of material to be supplied.

1.4 Substitutes

.1 Substitution of different size bars permitted only upon the written approval of the *Contract Administrator*.

PART 2 - MATERIALS

2.1 Materials

.1 Reinforcing steel: billet steel, grade 400, deformed bars to CSA G30.18 unless indicated otherwise.

.2 Welded steel wire fabric: to CSA G30.5. Provide in flat sheets only.

.3 Chairs, bolsters, bar supports, spacers: to CAN/CSA-A23.1 (non-metallic).

.4 Mechanical splices: subject to the approval of the *Contract Administrator*.

PART 2.2 – MATERIALS (Cont.)

2.2 Fabrication

.1 Fabricate reinforcing in accordance with CAN/CSA-A23.1 and ACI 315R, Manual of Engineering and Placing Drawings for Reinforced Concrete Structures.

.2 Obtain *Contract Administrator's* approval for locations of reinforcement splices other than shown on drawings. Stagger splices in adjacent bars.

.3 Horizontal reinforcement to be made continuous around corners by use of corner bars of same size and strength as horizontal bars and as indicated on the drawings.

.4 Bars noted as continuous to be spliced with a minimum of 1.3 times Class "B" tension laps, staggered where possible.

.5 Provide standard hook length for all bars noted "hooked", unless noted otherwise.

.6 Ship bundles of bar reinforcement, clearly identified in accordance with bar bending details and list.

PART 3 - EXECUTION

3.1 Field Bending

.1 Do not field bend reinforcement except where indicated or authorized by *Contract Administrator*.

.2 When field bending is authorized, bend without heat, applying a slow and steady pressure.

.3 Replace bars which develop cracks or splits.

3.2 Placing

.1 Place reinforcing steel as indicated on drawings and in accordance with CAN/CSA-A23.1.

.2 Metal reinforcement shall be protected by thickness of concrete indicated on drawings or as specified in CAN/CSA-A23.1.

.3 Clean reinforcing steel of excess rust and previously deposited concrete prior to placing concrete.

.4 Use non-metallic chairs and bolsters to support all reinforcement. Reinforcement shall be accurately placed and secured against displacement.

PART 3 – EXECUTION (Cont.)

.5 Anchor bolts, dowels, and steel embedments shall be set before concrete placement and shall not be inserted into placed concrete.

.6 The *Contract Administrator* shall be notified 72 hours prior to concrete placement to inspect installed reinforcing steel.