Part 1 General

1.1 RELATED SECTIONS

.1 Section 03 30 00 - Cast-in-Place Concrete.

1.2 MEASUREMENT PROCEDURES

.1 No measurement will be made under this section. Include costs in items of concrete work for which reinforcement is required.

1.3 REFERENCES

.1 Canadian Standards Association (CSA), all standards used shall be of latest edition.

- .1 CAN/CSA-A23.1-94 - Concrete Materials and Methods of Concrete Construction.
- .2 CSA G30.3 - Cold Drawn Steel Wire for Concrete Reinforcement.
- .3 CSA G30.5 - Welded Steel Wire Fabric for Concrete Reinforcement.
- .4 CSA G30.14 - Deformed Steel Wire for Concrete Reinforcement.
- .5 CAN/CSA-G30.18 - Billet-Steel Bars for Concrete Reinforcement.
- .6 CAN/CSA-G164-M92 - Hot Dip Galvanizing of Irregularly Shaped Articles.

1.4 SUBMITTAL

.1 Submit shop drawings including placing of reinforcement in accordance with Section 01 33 00- Submittal Procedures. All shop drawings shall bear the signed stamp form P.Eng registered or licensed to practice in PEI.

.2 Indicate on shop drawings, bar bending details, lists, quantities of reinforcement, sizes, spacings, locations of reinforcement and mechanical splices if approved by Departmental Representative, with identifying code marks to permit correct placement without reference to structural drawings. Indicate sizes, spacings and locations of chairs, spacers and hangers. Prepare reinforcement drawings in accordance with Reinforcing Steel Manual of Standard Practice - by Reinforcing Steel Institute of Canada.

.3 Detail lap lengths and bar development lengths to CAN3-A23.3, unless otherwise Provide type tension lap splices unless otherwise indicated.

.4 Contractor shall check the Pre-cast units design that it meets the requirement and will be able to sustain the forces during lifting and transportation.

1.5 WASTE MANAGEMENT AND DISPOSAL

.1 Separate and recycle waste materials in accordance with Section 01 74 21.

Part 2 Products

2.1 MATERIALS

.1 Substitute different size bars only if permitted in writing by Department's Representative in writing

.2 Reinforcing steel: billet steel, grade 400, deformed bars to CAN/CSA-G30.18, unless indicated otherwise.

.3 Cold-drawn annealed steel wire ties: to CSA G30.3.

.4 Chairs, bolsters, bar supports, spacers: to CAN/CSA-A23.1., all chairs and bar supports shall be hot dipped galvanized or plastic.

2.2 FABRICATION

.1 Fabricate reinforcing steel in accordance with CAN/CSA-A23.1, and Reinforcing Steel Manual of Standard Practice by the Reinforcing Steel Institute of Canada.

.2 Obtain Departmental Representative approval for locations of reinforcement splices other than those shown on placing drawings.

.3 Ship bundles of bar reinforcement, clearly identified in accordance with bar bending details and lists.

2.3 SOURCE QUALITY CONTROL

.1 Upon request, provide Departmental Representative with certified copy of mill test report of reinforcing steel, showing physical and chemical analysis, minimum 4 weeks prior to commencing reinforcing work.

.2 Upon request inform Departmental Representative of proposed source of material to be supplied.

Part 3 Execution

3.1 FIELD BENDING

.1 Do not field bend or field weld reinforcement.

3.2 PLACING REINFORCEMENT

.1 Place reinforcing steel as indicated on reviewed placing drawings and in accordance with CAN/CSA-A23.1 and A 23.2.

.2 Prior to placing concrete, obtain Departmental Representative approval of reinforcing material and placement.

.3 Ensure cover to reinforcement is maintained during concrete pour.

END OF SECTION