

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1        Section 01 11 01 – Work related general information.
- .2        Section 03 20 00 – Concrete reinforcing

**1.2                REFERENCES**

- .1        Canadian Standards Association (CSA International)
  - .1        CSA-A23.1-04/A23.2-04, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
  - .2        CAN/CSA-S269.3-M92(R2003), Concrete Formwork, National Standard of Canada

**1.3                DELIVERY, STORAGE AND HANDLING**

- .1        Waste Management and Disposal:
  - .1        Separate waste materials for reuse and recycling in accordance with Section 01 74 21 – Construction-demolition Waste Management And Disposal.
  - .2        Send unused wood to a recycling facility.

**Part 2            Products**

**2.1                MATERIALS**

- .1        Formwork materials:
  - .1        For concrete without special architectural features, use wood and wood product formwork materials to CAN/CSA-O86.
  - .2        For concrete with special architectural features, use formwork materials to CSA-A23.1/A23.2.
- .2        Form ties:
  - .1        For concrete not designated “Architectural”, use removable or snap-off metal ties, fixed or adjustable length, free of devices leaving holes larger than 25 mm diameter in concrete surface.
  - .2        For Architectural concrete, use snap ties complete with plastic cones and light grey concrete plugs.
- .3        Form stripping agent: colourless mineral oil, non-toxic.
- .4        Falsework materials: to CSA-S269.1.

**Part 3            Execution**

**3.1                FABRICATION AND ERECTION**

- .1        Verify lines, levels and centres before proceeding with formwork/falsework and ensure dimensions agree with drawings.
- .2        Obtain Departmental Representative's approval for use of earth forms framing openings not indicated on drawings.
- .3        Fabricate and erect falsework in accordance with CSA S269.1.
- .4        Do not place shores and mud sills on frozen ground.
- .5        Fabricate and erect formwork in accordance with CAN/CSA-S269.3 to produce finished concrete conforming to shape, dimensions, locations and levels indicated within tolerances required by CSA-A23.1/A23.2.
- .6        Align form joints and make watertight.
  - .1            Keep form joints to minimum.
- .7        Build in anchors, sleeves, and other inserts required to accommodate Work specified in other sections.
  - .1            Ensure that anchors and inserts will not protrude beyond surfaces designated to receive applied finishes, including painting.

**3.2                REMOVAL AND RESHORING**

- .1        Leave formwork in place for following minimum periods of time after placing concrete.
  - .1            3 days for concrete components.
- .2        Re-use formwork and falsework subject to requirements of CSA-A23.1/A23.2.

**END OF SECTION**