

SECTION 03100

CONCRETE FORMWORK

PART 1 GENERAL

1.01 SCOPE

- A. The work covered by this section includes the furnishing of all labor, material, equipment and incidentals, and the performing of all operations in connection with Concrete Formwork as indicated on the drawings and/or herein specified. All work shall be subject to the terms and conditions of the Contract and applicable portions of the General Conditions, and Division 1, General Requirements.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Concrete Reinforcement - Section 03200
- B. Cast-In-Place Concrete - Section 03300

1.03 STANDARD FOR FORMWORK

- A. All aspects of the formwork shall be in compliance with ACI 347-95, "Recommended Practice for Concrete Formwork."

PART 2 PRODUCTS

2.01 MATERIAL

- A. Forms for concrete surfaces that will be exposed in the finished building shall be Plyform Class 1, B-B Exterior Type, conforming to U.S. Product Standard PS-1. Forms for concrete surfaces not exposed in the finished building may be Plyform or matched lumber.
- B. Form oil used on surfaces of forms shall be a non-staining type, equal to Nox-Crete form coating.
- C. Form ties shall be of adequate strength to hold the forms together under the loads imposed by the concrete, with a minimum working strength of 3,000 pounds.

PART 3 EXECUTION

3.01 DESIGN OF FORMWORK

- A. The design, engineering and safety of formwork, as well as its construction, shall be the responsibility of the Contractor.
- B. The design of formwork shall include consideration of the rate and method of placing concrete.

3.02 CONSTRUCTION OF FORMS

- A. Formwork shall be constructed to the shape, lines and dimensions of the members as required by the plans and specifications.
- B. Forms shall be sufficiently tight to prevent leakage of the mortar.
- C. Forms shall be properly braced and/or tied together so as to maintain position and shape during the concrete placement.
- D. Form oil shall be applied to the forms before the forms are set in place.
- E. All forms shall be cleaned and re-oiled before re-use.
- F. Form ties shall have a minimum break back of 1" from the wall surface after form removal. Job fabricated wire ties will not be allowed.
- G. Use forms with no surface defects on wall surfaces to be exposed in the finished structure. Use care to insure that form joints are tight, forms are well braced and true to lines and grade for these areas.

3.03 REMOVAL OF FORMS

- A. Wall forms may be removed 48 hours after placing the concrete.
- B. Removal of forms shall be in a manner to insure safety of the structure and prevent damage to the concrete surfaces.
- C. The Contractor shall assume full responsibility for any damage to the structure caused by premature removal of forms.

END OF SECTION