10. Impact load

1.1.4 Performance Requirement

A. Sufficiently rigid and must be designed so that concrete slab, walls, and other members will be of correct dimensions, shape, alignment, elevation, and position and within tolerances as specified. Design Formwork to safely support all vertical and lateral loads that might be applied until such load can be supported by the concrete structure.

1.1.5 Submittals for Review

A. Submit to the requirements of Section 01300 - Submittals.

B. Shop Drawings: Submit design calculations sheet and detailed working drawings of the proposed formwork for review as follow.

Design calculations sheet includes:

1. All major design values and loading conditions, include assumed value of live and dead loads; the compressive strength of the concrete for formwork removal and for application of construction loads; wind load; impact load; rate of placement, temperature, height and drop of concrete; weight of moving equipment operated on formwork; camber diagrams.

Working drawings include:

1. Details of the individual panel.
2. Anchors, form ties, shores, lateral bracing, and horizontal lacing.
3. Field adjustment of forms and tolerance.
4. Water stops, keyways, and inserts.
5. Working scaffolds and runways.
6. Weep holes, cleaning holes and vibratory holes when required.
7. Detailed size, location, and dimension of tendon conduit in post tensioned concrete structures.
8. Construction joints, contraction joints, and expansion joints to conform to design drawings.
9. Sequence of concrete placement and minimum elapsed time between adjacent placements.