

Schedule Efficiency Associated With the Tilt-Up Construction Method: Case Study

Jake Barron

California Polytechnic State University
San Luis Obispo California

Tilt-up is an efficient method of construction means and methods that is best suited for large, flat projects such as commercial warehouses and distribution centers. The hypothesis is that this method of casting wall panels on site, and then tilting them upright, allows for certain unique activity sequences which could provide faster project completion. The results of the research demonstrated an ability for many concurrencies in the schedule with regards to the footings, and roof structure.

Methodology

A case study was completed through looking into two completed projects schedules. Comparison of the schedules and analysis of the activities helped form the results of the paper. This study along with personal interviews of project team members formed the basis of the methodology.

Results and Purpose

The results of the case study can be seen in the sample schedule on the right which showed an ability for many concurrencies such as in the footings and overhead work, which stemmed from the typical size and design of tilt-up buildings. The research was intended to uncover activities that provided efficiency to a tilt-up schedule.

