Construction schedules are typically built by organizing activities according to trades as a whole. The entire foundation is poured, then the entire superstructure is erected, followed by interior framing, etc. However, for projects with an unchangeable finish date such as a school, other scheduling methods must be considered when the project is faced with uncontrollable, force majeure events which threaten to delay the project deadline. In order to examine the efficacy of alternative scheduling techniques, analysis of a $50 million school project will provide insight into how tasks can be safely overlapped to gain lost time in a schedule. This research combined with the methodology of interviewing project team members illustrated that activities which usually cannot occur simultaneously, can actually share time on the schedule without increasing risks related to safety, quality or increased cost. The results of the project analysis demonstrated the feasibility of erecting structural steel in sections before the underlying slab is fully poured. Beginning steel erection before the slab is poured allows for acceleration of the critical path by opening up the site for work that would otherwise have to wait for 100% completion of the slab.

Resequencing to Make Up Lost Time During the COVID-19 Pandemic: Case Study

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Calculating Schedule Compression

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Visual Management Task Board

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Impact of COVID on Industry Production

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Enzo Rienzi

(510) 710-3200
enzo.rienzi@gmail.com