

ATTACHMENT "A"

Construction Scheduling Engineer - Forensic

The Construction Scheduling Engineer reviews the base line construction schedule and resource-loaded project schedules, developed by the Construction Manager or General Contractor, to provide input and feedback to the District relative to observations and/or concerns. Schedulers work directly with the District, and as necessary are involved in meetings with the Architect and General Contractor or Construction Manager to provide observations and/or concerns related to the schedule during pre-construction, if required and when establishing the base-line construction schedule. Monthly Construction schedules are reviewed on an as-needed basis. Software to be used includes, but not limited to Primavera P6, Primavera Claim Digger, Microsoft Project, Cost Works and RS Means. The Construction Scheduling Engineer has a deep understanding of scheduling techniques utilized by the industry and verifies the schedule is appropriate for the size and complexity of the project; provides highlights of standard factors to be considered and best practices. Among the list of considerations, the following are expected to be addressed – Scope of work includes the following:

- Analyzes critical path and constraints, milestone changes, activity logic, report variances, long lead items, duration changes, and offers guidance and strategies to correct
- Assesses compliance with schedule provision requirements reflected in general conditions, supplementary general conditions, and Division 1
- Monitors and evaluates project schedule progress and identifies conflicts and developing issues
- Provides recommendations for schedule improvement based on actual or potential impact of design changes and work performance
- Ensures the Substantial Completion and Completion dates shown in the schedule are in agreement with the dates agreed with the district
- Identifies the need for a modification of the schedule
- Participates in negotiations with the contractor on an as-needed basis. After negotiation, assists in preparing final documentation.
- Works with the Campus Project Managers in identifying potential problems affecting look-ahead schedules and developing workaround plans
- Conducts schedule delay/disruption analysis to determine cause and effect. Determines responsibility for delay, and relationships to impacted activities. Identify concurrent delays and determines whether delays are excusable and compensable
- Analyzes schedule change orders and prepares schedule delay estimates/ analysis
- Reports schedule status and updates to project stakeholders; interfaces with Campus Project Managers to discuss analysis and performance
- Works in collaboration with Campus Project Managers to drive consistency of the project scheduling approach to facilitate accuracy in project execution and reporting
- Communicates and troubleshoots potential scheduling problems

The Construction Scheduling Engineer reviews schedule narratives and time impact analysis (when necessary) provided by the general contractor. The schedule narrative requirements are:

- Anticipated production rates or Anticipated workforce (e.g., number of crews, size, crew type etc.)
- Permit or Utility time requirements

- Right of Way requirements. Detours and anticipated timeframe
- Lead time for special materials
- Any critical milestones/interim completion dates
- Any anticipated problems meeting the schedule
- Analysis of any acceleration applied to the construction's schedule

Certifications and Experience:

- AACE-Planning & Scheduling Professional or PMI-Scheduling Professional required
- Proficiency in Primavera P6 required. Including cost and resource loading analysis
- Proficiency in Microsoft Project
- Experience with project management software like Prolog is desirable