



Construction Scheduling—INDOT Perspective

Jeff James, P.E.

Construction Management Division

Construction Field Engineer



INDOT Contract Requirements

- 108.04—Prosecution of the Work
 - Bar Chart Schedule
- Recurring Special Provision 108-C-215
 - Critical Path Method (CPM) Schedule



Bar Chart Schedule Requirements

- Submittal at Preconstruction Conference
- Exceptions
 - Contract Duration Less Than 60 Calendar Days
 - Contract Duration Less Than 35 Work Days
 - Less Than 60 Calendar Days Between NTP Issuance and Contract Completion Date
- Graphically Depicts Relationships Between Operations
- Used to Identify Controlling Operations



CPM Schedule Requirements

- Baseline Submittal at Preconstruction Conference
- Key Elements
 - Includes Non-Construction Activities
 - Limited Construction Activity Durations
 - Relationships Between Activities Identified
 - Calendar Assignment for Each Activity
 - Narrative Report
- Used to Identify Critical Path Activities



General Schedule Requirements

- Updates
 - Required At Least Monthly
 - Can Meet More Often Using “Look Ahead” Schedules
 - Compare Progress to Original Schedule Planned Progress
 - Action Plan if Contractor is Responsible for Work Performed Later Than Original Schedule
 - CPM Monthly Update Submittals Require Narrative Reports



Schedule Acceptance

- INDOT Does Not Approve Contractor Original or Update Schedules
 - Contractor is Responsible for Construction Management
- INDOT Needs to Review Schedules
 - Question Schedule Elements
 - Document Disagreements
 - Project Staffing Needs
 - Communicate with PIO



Schedule Applications

- Disputes/Claims
 - Compensation
 - Directed Acceleration
 - Extended Project Level Overhead
 - Time Adjustments
 - Delays to Controlling Operation or Critical Path Activities
 - If Delay is Excusable, Execute Time Adjustment Change Order as Soon as Possible



INDOT Schedule Priorities

- Schedules Are a Communication Tool
- Prompt Submittal of Original Bar Graph or Baseline CPM Schedule
 - INDOT Staffing Needs
 - Establishes Baseline from Which Delay Events Are Measured
 - Documents Contractor Intent at Time of Letting
 - Avoid “Wasted Effort Syndrome” On Contracts with Early Delays



Thank You!

Questions???

