

E-Construction - A Contractor's Perspective

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E-Construction - A Contractor's Perspective

➤ Processes

- Engineering and Construction Management System (ECMS)
- Force Account (FA)
- ASTA Scheduling
- Project Collaboration Center (PPCC)
- Source of Supply (SOS)
- Modeling (BIM)

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➤ ECMS

- Proposals, Plans and Specifications
- Pre-bid questions
- Bid submissions
- Contracts
- Estimates
- Work Authorizations
- Work Orders

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➤ Force Account

- Greater adherence to the process (ie: Authorization must be in place first)
- In practice, the Department has increased responsibility for the daily input
- Opportunities with Equipment Watch fleet import
- Opportunities with Insurance approvals
- System imposed timetables
- In general, operational personnel are united against it
- Should result in more timely payments for FA's
- Should reduce the number of FA's

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➤ ASTA Scheduling

- Struggling (as PennDOT did) with the conversion from other software
- Inconsistent commitment from the Department and Industry
- Updates needed even if the project is on schedule
- Universal understanding of Acceptance and the criteria
- Holding or threat of holding estimates

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- Project Collaboration Center
 - Most seem to like it
 - Lack of consistency within a District and District to District
 - The ease of correcting a mistake

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➤ Source of Supply

- Greatly increased the burden on the contractor
- Approval of standard materials for non-standard items
- Central Office and Districts at different stages of implementation

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➤ Modeling

- We need to get ready for 3D, 4D (time) and 5D (money)
- Availability of the design models
- Acceptance of the work and data from equipment control for quantities and as-builts
- What will the accepted standard be?

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➤ In Summary

- Each will eventually pay dividends to all involved
- State wide, we have taken on a lot in the last few years
- Inconsistency in the implementation and expectation adds to the difficulty
- We all need to work together to vet, adjust and make the implementation a success
- The “new” burden for each process is usually not equal, understand your counterpart’s new process and “pain”
- While we are ALL working through the new normal, don’t let the glitches hold up the project

The background consists of a light blue wireframe architectural drawing of a modern building with a curved facade and a grid of structural elements. A red and blue diagonal stripe is visible in the bottom-left corner.

Thank You