

2019 Rocky Mountain Asphalt Conference & Equipment Show

RMACES – 2019: Asphalt ABC's:
 - Education
 - Technology
 - Leadership

Setting Production Goals

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Setting Production Goals

INTRODUCTION – Setting Production Goals

- **Contractor Perspective**
 - Pre-Construction Considerations (ESTIMATE TIME)
 - Pre-Paving Considerations (AFTER ESTIMATE - PRIOR TO THE START OF CONSTRUCTION)
- **Owner / Engineer Perspective**
 - Things to consider that can make a project more productive

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Setting Production Goals

Pre-Construction Considerations (ESTIMATE TIME)

1. **Ensure you understand the project**
 - a. Review all bid documents and understand the scope of the project
 - b. Visit the Project / Meet with the owner – Ask Questions
 - c. Familiarize yourself with Lane Closure Requirements and Traffic Control Responsibilities
 - d. Understand all schedule requirements

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Pre-Construction Considerations (ESTIMATE TIME)

2. Ensure you understand your Subcontractor's Work

- a. What are your subcontractor's capabilities?
- b. Consider any special requirements



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Pre-Construction Considerations (ESTIMATE TIME)

3. Determine your plant location and any special requirements for the asphalt mix

- a. Stationary Plant vs. Portable Plant
- b. Anticipated demand on the plant



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Pre-Construction Considerations – (ESTIMATE TIME)

4. Determine what type of haul truck to use and the best route to follow

- a. Large Haul Units or Small Haul Units?
- b. Evaluate various haul routes



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Pre-Construction Considerations (ESTIMATE TIME)

5. Consider any special methods that could be used to increase production

- a. New Roller Technology - Intelligent Compaction
 - 1. Pass Count Mapping
 - 2. Temperature Mapping
 - 3. Stiffness Measurements
- b. New Information Technology
 - 1. CAT Paving Calculator App
- c. Echelon Paving Techniques
 - 1. Elimination of Joints
- d. Infrared Temperature Measurement
 - 1. Elimination of Thermal Segregation

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Setting Production Goals

Pre-Paving Considerations (AFTER ESTIMATE – PRIOR TO CONSTRUCTION)

Communicate Information from the Estimate to Production Crews

1. Scope of Work
2. Schedule Milestones
3. Production Goals
4. Special Equipment
5. QC Requirements
6. Any Other things to consider?

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Setting Production Goals

Pre-Paving Considerations (AFTER ESTIMATE – PRIOR TO CONSTRUCTION)

- Establish a formal procedure to communicate production results to crews and management
- Ensure that you provide Feedback to Crews on their Production
- Tracking and Reporting your crews' progress sets Benchmarks and provides information that can be used in the future

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Owner / Engineer Perspective

- Ask yourself 1 question before design begins:
 - How can I help to make this project as productive as possible?

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Things to Consider:

1. Are there restrictions that limit paving to Day or Night?
2. Can detours be pre-approved and designed into the project to increase paving production?
3. Can variances to CDOT's Lane Closure Strategy be approved prior to bidding a project?
4. Are Directional Closures an option?
5. Coordination between governmental agencies prior to bidding the project may increase production.
6. Become familiar with production rates on the projects you design - - Push production through your proposal.
7. Identify any utility conflicts and resolve them prior to construction.

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Setting Production Goals

Example 1:
Example 2:



- Higher production will always result in lower laydown costs.

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