Building Work Packages
Session Format

- Introduction
- Overview of the COAA approach to building Work Packages
- The Graham approach to building work packages
- The JV Driver approach to building work packages
- The Ledcor approach to building work packages
- Audience participation
- Questions to panel
What is in an FIWP?
## The COAA Approach to Building Work Packages

**Field Installation Work Packages (FIWP)**

<table>
<thead>
<tr>
<th>Page 1</th>
<th>3D Coversheet</th>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page 2</td>
<td>Coversheet</td>
<td>Technical Documentation</td>
</tr>
<tr>
<td>Page 3</td>
<td>Contents</td>
<td></td>
</tr>
<tr>
<td>Page 4</td>
<td>Work Scope</td>
<td></td>
</tr>
<tr>
<td>Page 5</td>
<td>EH&amp;S Introduction</td>
<td></td>
</tr>
<tr>
<td>Page 6</td>
<td>EH&amp;S site info</td>
<td></td>
</tr>
<tr>
<td>Page 7</td>
<td>QA / QC Requirements</td>
<td></td>
</tr>
<tr>
<td>Page 8</td>
<td>Tools and Consumables</td>
<td></td>
</tr>
<tr>
<td>Page 9</td>
<td>Check List</td>
<td></td>
</tr>
<tr>
<td>Page 10</td>
<td>Scaffold Request</td>
<td></td>
</tr>
</tbody>
</table>

**Attachments**
- Technical Documentation
  - ISO List
  - Spool List
  - Drawings
- Material Forecast
- Score Cards
  - Spool Score Card
  - Weld Score Card
- 3D Model Shots
- Other
  - Lessons Learned
  - Notes

**Technical Documentation**
- ISO List
- Spool List
- Drawings

**Drawings**
- ISO List
- Spool List
- Drawings

**Spool Score Card**
- Spool Score Card

**Weld Score Card**
- Weld Score Card

**3D Model Shots**
- 3D Model Shots

**Other**
- Lessons Learned
- Notes
The COAA Approach to Building Work Packages

- **Who develops the FIWP?**

- **FIWP**s are developed by dedicated planners (crafts people or engineering types with construction experience).

- **Note:** In some cases General Foremen or superintendents may develop the FIWP.
• How big is an FIWP?
  o Normally 500 to 1000 hours (but varies based on discipline and work being done)
The COAA Approach to Building Work Packages

• Can you use an FIWP that doesn`t have satisfied constraints?
  
  o Not normally, but you can modify the package to ensure that the new package has satisfied constraints
The COAA Approach to Building Work Packages

• What are FIWP built from?
  o Typically FIWPs are developed from Construction Work Packages but we are seeing FIWP developed directly from Engineering Work packages
The Graham Approach to Building Work Packages

Traditional execution:

Good Plan, But I Think We Might Need Just a Little More Detail Right Here.
The Graham Approach to Building Work Packages

- Information
- Materials
- Tools
- Equipment
- Resources
- Access to the Workface

Scope
Drawings
Planned Value
Schedule Dates
Material Confirmation
Construction Equipment
Scaffold Requirements
Safety
Quality Control
Labour
Permit
Requirements
The Graham Approach to Building Work Packages

Workface Planning Applied to Earthmoving
The Graham Approach to Building Work Packages

Workface Planning Applied to Earthmoving

- Standard set of FIWPs
- FIWPs applied to a Lift (not to a foreman)
- Foremen build daily plans to satisfy the FIWP
- Foremen report barriers daily
Beyond the COAA Model:

- WorkFace Planners develop execution plans with their superintendents for each EWP
- EP guides development of FIWPs
- Standard earthmoving FIWPs (procedures)
- Earthmoving FIWPs assigned to the task not the crew.
- Foremen create daily plans
- Barriers are logged and managed daily
- Subcontract FIWPs: built by our planners with guidance from their supervision
The JV Driver Approach to Building Work Packages

Wedding Scenario:
The JV Driver Approach to Building Work Packages

- **FIWP Stakeholders**
  - Planners are in the Field
  - Extract components to build the FIWP
  - HS&E
  - Quality
  - Project Controls
  - Schedule
  - Material Management
  - Document Control
The JV Driver Approach to Building Work Packages

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COAA
Construction Owners
Association of Alberta

APPROVED
The JV Driver Approach to Building Work Packages

- Red Line Drawings
- As Built Drawings
- Construction Punch List
- Signed and Completed ITPs
- Confirmation of Construction Complete
- Precommissioning

TCCC (Turnover, Care, Custody and Control)

HWP's are returned Certified Complete
The Ledcor Approach to Building Work Packages

Building Foreman’s Workface Packages
Question-and-Answer Period
NOTE: The information collected is anonymous and may be used for research purposes. By participating, you are giving your consent for the use of this data.
Closing Comments

• Thanks for attending this session and providing us with your feedback

• If you have any further questions for any of the speakers please ask us after the session