Presentation Agenda

- Bridges Project Overview and Schedule
- Complexities
  - Two States - Twenty Companies
  - High Profile Utility Impacts
- Project Delivery
  - Traditional Project Utility Coordination process
  - Design-Build Project Utility Coordination process
- INDOT East End Crossing Utility Coordination
- Best Practices on Design-Build (or P3) Projects
- Best Practices INDOT processes
- Summary
- Questions
Project Overview
## Project Timeline / Schedule

<table>
<thead>
<tr>
<th>Year</th>
<th>Events</th>
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<tbody>
<tr>
<td>1994</td>
<td>- Began Preliminary Engineering <em>(Before 105 IAC 13)</em></td>
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<td>- Studies, Public Input, Environmental Impact Statement, Preferred Alternatives, Record of Decision 2003</td>
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<td>2003</td>
<td>- Lawsuit, Delays, Funding Issues, Updated Cost $4.6 Billion</td>
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<td>- Governors plan, Modified Preferred Alternatives, Tolling, Supplemental EIS, Lowered Cost $2.5 Billion</td>
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<td>2011</td>
<td>- Alt Project Delivery methods: P3 (INDOT), DBT (KYTC)</td>
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<td>2012</td>
<td>- RFQ, Technical Provisions, RFP, Developer Selected</td>
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<td>2013</td>
<td>- NTP 1 Begin Final Design; NTP 2 Start Construction</td>
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<tr>
<td>2016</td>
<td>- Complete</td>
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COMPLEXITIES

Two States / Twenty Companies

• East End Bridge and Approaches -
  - KY Utility Companies - 6
  - IN Utility Companies - 9
  - INDOT responsible for utility relocations in both states

• Downtown Bridge and Approaches -
  - KY Utility Companies - 11
  - IN Utility Companies - 12
  - KYTC responsible for utility relocations in both states
High Profile Utility Impacts

- **East End Crossing: Bridge and Approaches**
  - **Indiana side**
    - City of Jeffersonville private project Dual 18” Force Mains
    - Level 3 Long Haul Fiber Optics
    - AT&T Controlled Temperature Vault
    - Watson Rural Water Company 20” transmission water main
    - CSX and Ports of Indiana Railroads

- **Kentucky side**
  - AT&T Remote Terminal Cabinet
  - LG&E transmission route inside Access Control Line
  - MSD Pump Station and Shadowwood Treatment Plant
  - LWC 60” transmission water main
    - Blasting Mitigation
  - LWC Water Treatment Plant
    - RBI / Pier Placement
    - Sludge Lagoon Study of Options
High Profile Utility Impacts

- Downtown Crossing: Bridge and Approaches
  - **Indiana side**
    - Seven (7) Fiber Optic Providers
    - Duke 138 KV Transmission Route
    - Insight’s nodes and power supply
    - L&I Railroad

  - **Kentucky side**
    - LG&E Transmission towers
      - Vertical elevation conflict affecting two lattice towers
    - MSD twin 24” force main sewers
      - CCTV all sanitary and combined sewers
      - Designed relocation of twin 24” force mains
    - Insight trunk lines
    - CSX / RJ Corman Railroad (9 structures overhead)
Duke 138Kv Transmission Line
Traditional Project Delivery

- Design
- R/W and Utilities
- Construction
Design Build Project Delivery

Project

State DOT ↔ Design Build Team

- Design Phase
  - R/W & Utilities Authorized
- Design and NEPA
- Right of Way
- Utility Coordination

Procurement Phase
- RFP

Design-Build Phase
- Design
  - R/W
- Utility Coordination

Construction
INDOT- EEC Utility Coordination

During Procurement Phase

• Reimbursement Letters
• Authorization Letters

• Utility Adjustment Types
  - Adjustments that can be designed and constructed with 30% plans
    • Type 1 - Utility designs and constructs / INDOT pays
  - Adjustments that depends on final plans
    • Type 2 - DBT designs and constructs / DBT pays
    • Type 3 - Utility designs and constructs / DBT pays

• One-on-One Meetings
  - Discussed / Agreed on Utility Adjustment Types
  - Meeting Summaries*
INDOT- EEC Utility Coordination

During Procurement Phase (cont.)

• Request for Draft Work Plan*
  - Preliminary plan, schedule and cost estimate

• Preliminary Engineering Agreements
  - To prepare draft work plan based on 30% plans
  - Meet with Proposers

• Type 2 and Type 3 Agreements*
• Kick-off meeting with Proposers and Utility Reps
• NTP with Type 1 Relocations

* information provided to DBT’s
INDOT- EEC Utility Coordination

During Design-Build Phase

• DBT responsible for Utility Coordination
  • Utility Meetings
  • Provide project plans as updated
  • Review Type 1 designs for compatibility
  • Assist in Utility Relocation type 2 and type 3 designs
  • Prepare Agreements
  • Acquire utility easements, if needed

• Coordinate Permit application process
• Complete Type 1 relocations
Best Practices on DB / P3 projects

- Reimbursement
- PE Agreements to perform Studies
- Draft Work Plans
- Proposers - Utility Company Kick-Off Meeting
- Open and frequent dialogue with utility companies
- Relocate utilities in advance, where possible
- Document control and organization
- Agreement Type by Location chart
- Track and Report (PE Agreements, Type 1 status, Expenditures, Bi-weekly update reports)
- Full time Utility Coordinator
Best Practices INDOT processes

- **Utility Coordinator**
  - Experience
  - Skills, Knowledge and Abilities
  - Attitude
  - Effective communication

- **Implementing new INDOT processes**
  - Work Plan Approved Letter
  - Notice to Proceed Letter from Utility Coordinator
  - Work Complete Letter
  - 90 - day Letter
  - Utility Coordinator “on-point” during construction

- **Verification of utility company “Remit To” address**
Summary

- Design-Build Projects (P3) in the future
- Utility Coordination a shared responsibility with Developer
- Best Practices will continue to evolve
- Utility Coordinator must be a skilled manager
- Communication is essential with the project owner, utility companies and the stakeholders.
- INDOT Processes are continuing to evolve and improve

Coordination, Communication, Coordination, More Communication..... then Relocation!
Questions

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