P3 Contract Administration & Oversight

- Contract Overview
- Contract Administration
  - Document Management
  - Workflow Management
- Contract Oversight
  - Contractual Obligations
  - Performance & Quality Verification
  - Final Records
- ?
LSIORB Project Relationships

Bi-State Development Agreement

KY

Bi-State Management Team

IN

Downtown Crossing

East End Crossing

2 Crossings - 1 Project
EEC P3 Contract Relationships

P3 Owner

Owner Rep & Support

[Diagram showing relationships between entities and contracts, including Developer, Public-Private Agreement, Design-Build Contract, and Design Agreement with specific percentages and names of companies.]
EEC P3 Contract Structure - DBFOM

- **Design**
  - 7.8 miles of roadway
  - 18 standard bridges

- **Build**
  - 2500’ cable-stayed bridge
  - 1700’ twin bore tunnel

- **Finance**
  - WVB: $763 M Equity and Bonds
  - IFA: $392 M in 8 Milestone payments

- **Operate**
  - Bridge Inspections, OS/OW Permits, SHM
  - Annual Availability Payments (ROI)

- **Maintain**
  - Pavement, Drainage, Striping, Signs, Guardrail, Mowing, Snow & Ice, +
  - Handback/Residual Life Requirements

35 Yr Term
Performance Req.s
EEC P3 Contract Documents

- **IFA**
  - Public-Private Agreement w/Exhibits
  - Technical Provisions w/Attachments
  - Standards, Reference Documents
  - IFA holds all Record Documents

- **WVB**
  - Proposal Commitments
  - Project Management Plan
  - Schedule
  - Approved RFC Plans & Special Provisions
  - Work Plans, ITP, Technical Reports
  - QC/QA Documentation
The Challenge

- Organize and Track > 171,000 documents and > 6,500 Workflows
  - 400 Design Submittals
  - 9,800 IFA Dailies
  - 500 Items of Correspondence
  - 670 Technical Reports
  - 370 RFC Documents
  - 900 Field Design Changes
  - 630 Work Plans
  - 480 Inspection & Testing Plans
  - 13,000 Material Approval and Material Received Records

- Among multiple entities and 100s of personnel in multiple locations
EEC Administration

The EEC Solution

- Manage all Contract Documents and Workflows within a Single System

Documents

- RFP, RID, PPA, WVB Proposal
- All Design Records
- All Construction Records
- All Environmental/Permit Records
- All Correspondence
- All Change Management Records
- All file types/sizes
- Email-enabled folders
- Searchable
EEC Administration

- **The EEC Solution**
  - Manage all Contract Documents and Workflows within a Single System
  - **Workflows**
    - Create and customize workflow processes
    - Match workflow to contractual requirements
    - Assign and track work assignments/ball-in-court
    - Documents remain linked in each process
    - Track history of each process
    - Cross-link processes
    - Version control of each document in process
    - Permissions by user groups or individual
    - Dashboard views by user
P3 Process Workflow

Typical Document Process Workflow

- **WVB RFC Submittal**
  - **IFA Review**
  - **WVB Resubmit**
  - **Comment Resolution**

15 Days

- **Yes**
  - **IFA Comments**
  - **Comment Resolution**
  - **IFA Record Docs**

- **No**
  - **IFA Comments**
  - **Comment Resolution**
  - **IFA Record Docs**
P3 Contract Oversight

**Contractual Obligations**

**WVB**
- Perform all Design & Construction QC/QA
  - Design & Construction QC/QA Plans
  - Sampling & Testing Frequency
  - Material Approval & Receiving Procedures
  - Work Plans/Inspection & Testing Procedures

**IFA**
- Performance Verification
  - Requirements Verification (spec checklists)
  - Quality Records Database (test results)
  - Process Audits

IFA Approval Req’d.
P3 Contract Performance Verification

IFA Performance Verification Database

- All Contract Specs and Requirements Extracted
  - Design & Construction requirements
  - PMP requirements
  - Work Plan requirements
  - Unique Special Provisions
  - Applicable INDOT & KYTC SS, RSPs, Standard Dwgs.

Verification Checklists Created

- Standardized for frequent usage (pre-pour checks)
- Customize for specific use (add plan notes, SP req.s, etc)

Used by both IFA and WVB
P3 Contract Performance Verification

- IFA Performance Verification Database
  - Track all non-conformances to ultimate conformance
    - Requirement Deficiencies (RD)
      - Correctible prior to inclusion, no rework
        - Rebar spacing
        - Failed compaction (prior to next lift)
        - Missing steel certs
        - Includes safety & environmental RDs
    - Non-Conformance Report (NCR)
      - Incorporated in work
      - May require rework or additional investigation
        - Low 28-day breaks
        - Voids/honeycomb
        - Process deficiencies (Audit Findings)
P3 Contract Performance Verification

Initial Conformance

20,071 Conformances

86% Initial Conformance

All NC/RDs must be satisfactorily resolved

3,264 Non-Conformances
P3 Contract Quality Verification

- Quality Records Database (QRD)
  - Input from both IFA and WVB
  - Track all Tests to Ultimate Resolution
    - Earthwork
    - Structural Concrete
    - PCCP
  - Document all acceptance criteria/results
  - Document all failed results (NCR or RD) and retests
  - Retain all info relevant to each test
    - Batch tickets
    - Test data
    - Technician info
    - Calculations
## P3 Contract QRD

### Quality Records Database

**Test Data Log**

<table>
<thead>
<tr>
<th>Report ID</th>
<th>Program</th>
<th>Lab Type</th>
<th>Alignment</th>
<th>LocationDesc</th>
<th>VES</th>
<th>Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>9464</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 3 Lift 13 US</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9465</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 3 Lift 13 DS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9466</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 4 Lift 10 US</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9467</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 4 Lift 10 DS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9468</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 4 Lift 10 US</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9469</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 4 Lift 10 US</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9470</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 4 Lift 10 US</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9471</td>
<td>QC</td>
<td>Cylinder</td>
<td>5</td>
<td>Tower 4 Lift 10 US</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Navigation**

- Concrete
  - Air, Stump, Comp Strength
  - Shotcrete
- Soils
- Asphalt

**Menu Options**

- File
- View
- Windows

**Search/Export Data**

- Mix Designs
- Upload Tests
- Help Manual

**Version:** 1.1.0.120

---

**Indiana Department of Transportation**

A State that Works
10.4 Gallon per CY added at batch plant. Disregard amount of ice per cubic yard on the billing description of the tickets. W/C rate calculated utilizing actual amount of ice added. The amount of ice (listed in gallons per cubic yard) is handwritten on the top left hand corner of each ticket.
Report of Compressive Strength
ASTM C39

Addressed To: Walsh-VINCI Joint Venture
1302 Port Road
Jeffersonville, IN 47130

Distributed To: Walsh-VINCI Joint Venture
1302 Port Road
Jeffersonville, IN 47130

Project Name: ORB East End Crossing
Project Number: 212195

Client: Walsh-VINCI Joint Venture
Date Issued: August 20, 2015

---

### Project Information

<table>
<thead>
<tr>
<th>Placement Date</th>
<th>7/23/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section</td>
<td>5</td>
</tr>
<tr>
<td>Structure type</td>
<td>Upper Tower Legs</td>
</tr>
<tr>
<td>Total</td>
<td>68 yd³</td>
</tr>
<tr>
<td>Cumulative</td>
<td>16 yd³</td>
</tr>
<tr>
<td>Location of placement</td>
<td>Tower 4 Lift 10 US</td>
</tr>
<tr>
<td>Concrete contractor</td>
<td>WVC</td>
</tr>
</tbody>
</table>

### Supplier Information

<table>
<thead>
<tr>
<th>Concrete Supplier</th>
<th>Advance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mix Number</td>
<td>DT90 #8's</td>
</tr>
<tr>
<td>Ticket Number</td>
<td>20795</td>
</tr>
<tr>
<td>Truck Number</td>
<td>40</td>
</tr>
<tr>
<td>Batch Time</td>
<td>9:36 AM</td>
</tr>
<tr>
<td>Placement Time</td>
<td>10:30 AM</td>
</tr>
</tbody>
</table>

### Plastic Concrete Data

| Air Temp | 75° F |
| Concrete Temp | 78° F |
| Unit Weight | 143.4 |
| Air Content | 6.1% |
| Truck Vol | 8 yd³ |

### Hardened Concrete Data

| Test Cylinders Cast By | Al-Kassab, Safaa |
| Specified Strength at 28 days | 6000 |
| Sample Size | 4 x 8 @ 10 |
| Tested By | Tony Cieslak |
P3 Contract Final Documentation

- **Document Management/Workflow System**
  - Final Construction Record
  - Verify Satisfaction of all Contract Requirements
  - Provide Record for Operations & Maintenance
  - Permanently retained by INDOT
    - Static Version (no new entries or processes)
    - Retain all linkages to documents & processes
    - Contain all Record Drawings
      - As-Builts
      - Working Drawings
      - Technical Reports
    - Contain all Verifications & Quality Records
    - Contain all Material Record information
Thanks