101st Purdue Road School

Ohio River Bridges East End Crossing - Indiana Approach Design Challenges and Construction Updates

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Ohio River Bridges Project

Downtown Crossing (Section 1, 2, and 3)

East End Crossing (Section 4, 5, and 6)
Indiana Approach (Section 6)

- Mainline (SR 265): 4.0 miles
- Two Interchanges
- Four Major S-Lines
- Structures: 5 Rehab & 10 New Bridges
Design Challenges

- SR 265 / SR 62 / Port Road Complex Interchange
- Brookhollow Way
- New Alignment on Rolling Terrain
- Structures
Complex Interchange

• RID Design - Diverging Diamond
  – Traffic movements
  – Level of Service
  – Movement of 160’ Trailer
  – No traffic back up onto SR 265
  – Railroad Crossing at SR 62
RID Design
RR Preemption and Ramp Monitoring
Brookhollow Way

- Local Road connecting Boulder Creek Subdivision divided by Lentzier Creek
- A new bridge on Brookhollow Way over Lentzier Creek but under SR 265
- Large Elevation Difference (65’)
- Maintain 1 lane of traffic in each direction during construction
- Future widening of SR 265
New Alignment on Rolling Terrain
Photo – Courtesy of Earth Exploration Inc.
New Alignment on Rolling Terrain

- Rock Cut Sections
  - Performed additional soil borings or soundings
  - Rock quantity is close to what was estimated

- Large Fill Sections
  - Used available rock from rock cut sections for embankment construction
  - Improved stability of embankment
Structures

• Rehabilitations
  – O&M Considerations

• New Construction
  – Bridge foundations
  – Environmental Restrictions
  – Structure Optimization
Construction Updates
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- Embankment
- Roadway
- Bridge
- Anticipated Opening Day
  - Fall 2015

Photos – Courtesy of The Ohio River Bridges Project