2015 Purdue Road School
US 31 South Bend Freeway Design and Construction Continuity

Susan Al-Abbas, PE, Kevin Rearick, PE and Brad Taylor, PE
YOUR PRESENTERS

• Kevin Rearick, PE
  o Roadway Section Manager

• Susan Al-Abbas, PE
  o Indiana Transportation Manager

• Brad Taylor, PE
  o INDOT Area Engineer
US 31 FLY OVER
18 CONTRACTS

- Every Challenge is an Opportunity
  - Accelerated Timeline
  - Land Acquisition and Exceptions
  - Intra-contract Overlap
  - Contract Limit Shifts
  - Practical Design/Value Engineering
    - South End Resurfacing
    - US 20 Interchange

- Lessons Learned
  - Be Prepared for Change
  - Be Conservative Estimating Time
  - Adapt Quickly
Lehman Ditch to Shidler-Hoffman Ditch

- New alignment = No traffic disruptions
- Northern IN = Deep Peat
  - Peat 80’ deep
- Environmental Permits
  - Corridor wide
  - Avoid wetlands and streams
- Be Creative
Be Prepared

• Roadway construction
  o Sandy Loams, Undercuts, Wetlands
  o Construction and timeline issues

• Lessons Learned = Adapt Quickly
  o Northern IN soils change like the weather
  o Watch out for “muck”
  o Add undistributed quantities
NORTH-SOUTH TIE IN CONTRACTS

- One contract 15 miles apart
  - Benefit = Coordination Success
- Be Flexible
  - Contractor sequencing often not what you anticipate
  - Unique provisions with intermediate completions dates
RIGHT-OF-WAY

• Management
  o 477 Parcels
  o Let with Exceptions
  o Change is Inevitable
  o Early Acquisition Incentive

• Planning Ahead
  o Resource Challenges
  o Develop Database “toolbox”

• Lack of Protective Support
  o Hotel Renovation at Kern Road
  o Walmart Development
• Trunkline
  o Rigid Contracts
  o Never Ending Negotiations

• Fiber Optic
  o Major Relocation
  o 330 days Critical to North-South Tie-in Contract
  o Meeting Opening Commitment
• Complex Project
  o Project Sequencing
  o Quantities
  o Staffing

• Maintenance of Traffic

• Contract Changes
  o Phasing of Work

• Coordination with Design Team
Design to Construction Continuity

• One Team + One Goal = One Major Success!
  o INDOT
  o Project Manager – Decisive
  o Design – Responsive
  o Environmental - Creative
  o Right-of-Way - Flexible
  o Utility Coordinator - Persistent
  o Construction – Adaptive

• Every Player has a Position
• Every Position is Equally Important
• Public Outreach
• INDOT Staff
  o History
  o Plans
  o Quantities
  o Commitments
• Utilities Met Critical Timelines
• Rapid Responses
• Good Working Relationships
Open to Traffic!
Questions?