Construction Issues and Solutions

T. Steve Williams, PE
District 10 Deputy Director

CEAO + ORITE Workshop
Agenda

- Transportation funding
- Small Construction
- Plan development
- Contract
- Sale and award
- Bundle
- Issues with small construction
- Final Inspections
Show me the money!

Ohio Motor Fuel Tax - 28 Cents
FY 2014 Distribution - $1,747,799,581
(Estimated)

- ODOT Debt Service (2.12¢) ($132.5 M)
- Township (1.90¢) ($118.9 M)
- County (3.26¢) ($203.2 M)
- Municipal (3.79¢) ($236.3 M)
- LTIP, OPWC (0.96¢) ($59.7 M)
- (*) Other State Agencies (0.81¢) ($50.6 M)

Total Motor Fuel Tax to ODOT
17.28 cents
$1,079.1 million

(*) ODNR: PUCO; Dept. of Taxation; Turnpike Commission; Development Service Agency; Inspector General; Air Quality Development Authority
How Expensive is it..?

If you drive **20,000 miles** per year in a car that gets **30 MPG**, you pay...

**$25.75 per month**

To use the Highway System
Plan Development

- Constructability Review
- Pre-Bid Meeting
- Claim Digger

**ODOT’s Project Development Process ~ A Phased Approach**

- Planning (PL)
- Preliminary Engineering (PE)
- Environmental Engineering (EE)
- Final Engineering (FE)
- Construction (CO)
Contract

- Bond
- Latent Defects
- Specifications
- Proposal
- Funding Sources
Sale and Award

- Open and Notorious
- Public Letting
- Prequalification
- Small Contractors

Project Number: 150174  
State Estimate: $534,000.00  
PID Number: 92066  
Letting Date: 4/9/2015  
Completion Date: 9/30/2015  
Federal State: E111(354)

Fairfield  
CR 54-4.00 Pierce & Fair  
INTERSECTION  
DBE Goal

*** THIS PROJECT HAS ALTERNATE BID ITEMS.***
Bundling

- Reduces fixed costs
- Reduces bond
- Reduced incidentals

“Research shows that bundling smaller LPA projects is an effective project delivery practice…”

NCHRP synthesis 414
INSPECTION
Final Inspections
Issues with Small Construction
Issues with Small Construction
ISSUES WITH SMALL CONSTRUCTION
ISSUES WITH SMALL CONSTRUCTION
ISSUES WITH SMALL CONSTRUCTION
Change Orders
Things that shouldn’t happen
Things that shouldn’t happen
Oops!
THINGS THAT SHOULDN’T HAPPEN
Things that shouldn’t happen
Things that shouldn’t happen
THINGS THAT SHOULDN’T HAPPEN
Things that shouldn’t happen
Things that shouldn’t happen
We Have Learned from County Engineers
County Engineers are Great!
Thank You!

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