Alum Creek Drive/Groveport Road
Agenda

- Introductions
- Context
- The Challenges
- The Solution
- Innovative Elements
- Implementation
- Evaluation
- Lessons Learned
Introductions

- **Dean Ringle, PE, PS**
  Franklin County Engineer

- **Perry Morgan, PE**
  Principal, Stantec

- **Brian Hagerty, PE**
  Project Manager, Stantec

- **Mike Meeks, PE**
  Highway Maintenance Engineer, FC EO

- **Cornell Robertson, PE**
  Chief Deputy Design Engineer, FC EO
Context

Dean Ringle 4 mins
You are here:

OTEC

Alum Creek Dr/Groveport Rd
Context

By the Numbers

- 20M+ SF of Warehouse Development
- 28,000+ Employees in 2005
- 50,000 to 80,000 Employees by 2030
- Primary Route: Alum Creek Drive
- 35,000+ ADT (2013)
- 20%+ Trucks
- 4 Minutes of Delay in Peak Hour
The Challenges

Perry Morgan 3 mins
The Challenges

Other Options?

- DDI, Superstreet, DLT, Interchange

- Persistent Issues Remain:
  - Limited right-of-way
  - Need to maintain access
  - Proximity to Next Signal
The Solution

Perry Morgan 8 mins
The Solution  
Signal Phasing  

- Two Independent Intersections  
- Rests on South- or North-bound Green  
- Actuation by  
  - Opposing left  
  - Conflicting right (Groveport Road), or  
  - Pedestrian push button.
The Solution

Signal Phasing - Two Independent Intersections
Innovative Elements

Brian Hagerty 10 mins
Innovative Elements

Ped/Bike Accommodation

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Innovative Elements

Ped/Bike Accommodation

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Innovative Elements

Ped/Bike Accommodation

- Multi-use Path between roundabouts
- Two-stage Crosswalk on South Leg of Signal - Actuated with Negligible Impact to Operation
- Medians Also Improve Mobility
Innovative Elements

Ped/Bike Accommodation
Innovative Elements

Ped/Bike Accommodation

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Innovative Elements

Signal Truss
Innovative Elements

Signal Truss
Innovative Elements

Storm Culvert and BMPs
Innovative Elements

Storm Culvert and BMPs

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Innovative Elements
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Storm Culvert and BMPs

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Implementation
Implementation
Subtitle

- Cornell Robertson – 5 mins
- Possible topics:
  - Phasing of project
  - Funding sources
  - What do we call this thing? BBI, Crossbow?
Evaluation
Evaluation
Subtitle

- Mike Meeks – 5-10 mins
- Possible topics:
  - So does it work?
  - Brief overview of study and findings
  - What we’re hearing from area businesses
Lessons Learned

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OTEC 2015
Lessons Learned
Subtitle

- Dean Ringle – 5 mins
- Possible topics:
  - Any lessons learned?