2015 OTEC
I-70 Bridge Fire Response

Tim Keller, P.E.
Administrator
ODOT  Office of Structural Engineering

ODET 2015
FRA-70-0678 Bridge Fire

Common Sense is NOT so Common

July 1, 2015
Watch this video
ODOT’s Immediate Priority:

1. **Get traffic moving**
   A. Where to send traffic
   B. Get detour signs set up

2. **Fix the bridge**
   A. How much of the bridge can be salvaged
   B. How long will it take
Build a Crossover for I-70

• Use WB Bridge to carry 2 lanes EB I-70 & 2 lanes WB I-70

• Shelly & Sands selected to build the crossover using a Type A Emergency
  • Shelly & Sands was paving on I-70 a couple of miles away

• Reopen 2 lanes EB and 2 lanes WB of I-70 by noon on Friday, July 3rd
FRA-70-0678  Bridge Fire
FRA-70-0678  Bridge Fire
FRA-70-0678 Contracts

- **Type A Emergency for Crossover**
  - Included repair of WB Bridge Pier 3 Column

- **Competitively Bid Repairs to EB Bridge and Roadway Work**
FRA-70-0678  Timeline

Wednesday July 1, 2015

- 6:00 am +/- Fire
- 1:30 pm ODOT able to inspect bridges
- 3:00 PM 4 General Contractors on site to review damage and discuss Scope of Services
FRA-70-0678  Timeline

7:00 PM Scope of Service Sent to all 4 Contractors.

Thursday, July 2, 2015

Contractors had until noon to ask questions

2:00 PM Bid Opening
FRA-70-0678 Bridge Damage

- Slab in Span 3 – directly under fire was to be replaced.
- One column on Pier 2 and one column on Pier 3 and caps above these columns were to be replaced.
- Replace D-wall under bridge
- Replace concrete pavement - ramp
- Fiber wrap remaining columns and caps.
Shelly and Sands — low bid at $1,186,629.00

Incentive in Contract
- Open to traffic in 30 days – both mainline and ramps.
- $20,000/day incentive and dis-incentive
- Time started Friday July 3
Use existing plans for design.

Both EB and WB bridges will have superstructures replaced with future project.

Project awarded.

EB Bridge Repair was not intended to be a 75 yr. life.
Shelly & Sands had some changes to the scope that they wanted to discuss.

Two changes to EB Bridge piers:
- Encapsulate 2 columns in each pier rather than replace
- Pour new beam under existing cap

Agreed to changes by Thursday 6:00 PM.
Demolition completed by Saturday July 4.
FRA-70-0678  Bridge Repairs
FRA-70-0678  Bridge Repairs
FRA-70-0678  Bridge Repairs
FRA-70-0678  Bridge Repairs
FRA-70-0678  Bridge Repairs
FRA-70-0678  Bridge Completed

- **Bridge and Ramp opened to traffic on July 21, 2015**

- **Repairs completed in 18 days**
  - $240,000 incentive
Communicate, Communicate, Communicate, then Repeat

Empower the people on the ground

Staff with correct people
QUESTIONS