



ABC Projects - Indiana

Milton Madison Bridge Slide & I70 over SR 121 Bridge Slide

Jeremy Hunter – Bridge Design Manager

August 16 , 2015



U.S. Department of Transportation
Federal Highway Administration

AMERICAN ASSOCIATION
OF STATE HIGHWAY AND
TRANSPORTATION OFFICIALS

AASHIO

ABC Projects - INDOT

- Past Project: Milton Madison Bridge Slide
- Current Project: I-70 over SR 121
- Future Projects: TBD



Milton Madison Bridge Slide

- Built 1929 (80+ Year Old Bridge),
- Remaining Life <10 years
- Functionally Obsolete (24 ft Wide)
- Structurally Deficient (Posted 3 Ton 2011)



Milton Madison Bridge Slide



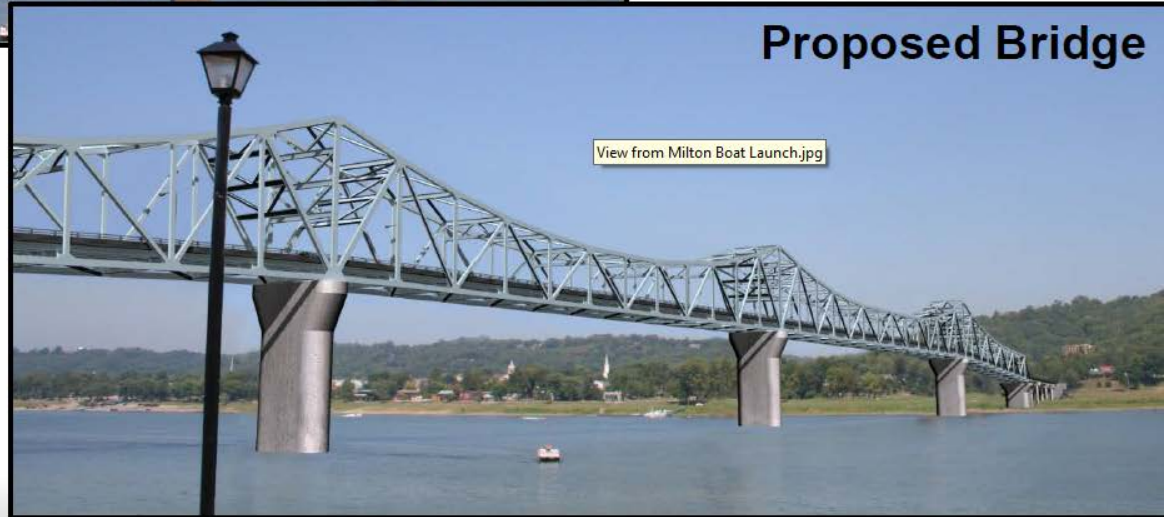
- 3117 ft Long (Total), Steel Truss Superstructure (2428 ft)
- Concrete Piers
- Connecting Madison-Indiana & Milton-Kentucky
- AADT 11,000 VPD
- 55 Mile Long Detour (Non-ABC Option)

Milton Madison Bridge Slide

Existing Bridge



Proposed Bridge



Milton Madison Bridge Slide

- Bridge Slide TV documentary (Edited Version):

Milton Madison Bridge Slide

- Full Video Can be watched @:

<http://www.miltonmadisonbridge.com>

Milton Madison Bridge Slide

Lessons Learned:

- Coordination among the DB Team; Prime Contractor, The Designer, & Subcontractors (Lifting/ Sliding)
- Contingency Plans; Equipments, Lifting, Sliding, Deck Pour, Etc.
- Communication; Meetings, Specific and Productive, Small Group Meetings if Necessary.
- Scope of Work: Clear and specific when required, Leave Room for Innovation of the DB Team.

I-70 over SR 121 Bridge Slide

- Twin Structures, Three Spans Each
- 2-12 ft Lane, 5'-8" & 11'-0" Shoulders (Each BD)
- AADT = ~35,000 vpd (~ 50% Distribution)



I-70 over SR 121 Bridge Slide

- Design Bid Build Method
- Status: Stage 1 plans submitted to INDOT on Sept. 10, Letting Apr. 2017
- Closure time; 14 days for each Bound
- MOT (ABC): Cross-over
- MOT (Conventional): Cross-over; Longer Traffic Queue (One Lane of Traffic for Longer Construction Time)

I-70 over SR 121 Bridge Slide

Alternates:

1. DO Nothing (Not an Option)
2. Conventional Construction Method (MOT = Cross-over)
3. **Self-Propelled Modular Transportation (SPMT) (MOT = Cross-over + Detour for SR 121)**
4. **Slide-in Construction (Cross-over)**
5. Hybrid Slide-in Construction (Cross-over)

I-70 over SR 121 Bridge Slide

Alternates:

**Alternate BID Option
Option 3 & 4 to be Detailed**

Future ABC Projects

TBD



Questions ?



U.S. Department of Transportation
Federal Highway Administration

AMERICAN ASSOCIATION
OF STATE HIGHWAY AND
TRANSPORTATION OFFICIALS

AASHIO