Introduction to Bridge Design Aids
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INDOT Bridge Design
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Outline
- History
- Concept
- Location and Organization
- Types of Content
- Highlights of Initial Rollout
- The Future...

- Brief Overlay Spec Update
A little history...

INDOT Bridge Design Aids

Structures Committee

Patching Question

Cal-Trans Website

Concept

• NOT POLICY!
• Offer help to designers
• Channel for timely guidance

Includes
• Existing “Practice Pointers”
• Other existing guidance
  • i.e. Prestressed Beam Details
• New information
Types of Content

- Best Practices
- Substructure Detailing Tips
- Useful Tools
- Sample Bridge Plans
- Sample Calculations
- Asymmetric Barrier Calculations
- Software Tips
- Prestressed Beam Software Pointers
- Common Errors/Issues
- Patching Quantities on Polymeric Overlays

Location

New Bridge Design Webpage
- http://www.in.gov/indot/3669.htm
- Organized By Topic

Bridge Design Aids Webpage
- http://www.in.gov/dot/div/contracts/standards/bridges/BDA.htm
- Organized By Revision Date
Organization

• Numbered by IDM Part 4 Chapter Number
  • Ex. 412-01
• Non-structural Aids start with 100
  • Ex. Sample Bridge Plans
• “S” denotes Software Tips
• Updated BDA’s
  same number, new revision date

BDA 412-01
IDM Chapter Reference
BDA Number for Chapter

Initial Rollout

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The future of BDA’s

- New/Revised BDA’s straight to web
- Notifications in monthly email to Design Consultants List Serve

Please help us, help you!
- Questions
- Comments
- Errors
- Ideas

Send to: BridgeDesignOffice@indot.in.gov

Overlay Specification Updates

- Combines:
  - Current Std. Spec. Section 722
  - Microsilica RSP: 736-B-104
    - LMC and Microsilica as optional bid items
      (BDA 412-02 for directions)
  - Hydrodemolition USP

- Adds Latex Modified Concrete –
  Very Early Strength (LMC-VEs)
  - Must be approved in the design phase for use
  - Requires a QCP and the contractor to have past experience
Overlay Specification Updates (con’t)

- Tightens fog misting requirements
- Longitudinal grooving instead of tining
- Updates cracking limits which will trigger further investigation
- Updates to curing times

Questions or ?

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