

# Policy and Procedure Updates

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Standards and Policy, INDOT

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## Overview

- Communication
- Policy Updates
- Indiana Design Manual Updates
- Practice Pointers
- Work in Progress



# Communication

- Design Consultant Listserv is the email distribution list used to communicate changes to the *Indiana Design Manual (IDM)* and *Standard Specifications*, as well as Construction Memos
- It is also used to make announcements for training, new items on the Department's website, or reminders
- The link to subscribe is located on the IDM website

**INDIANA DESIGN MANUAL HOME**  
 Indiana Design Manual 2013- Current  
 Archived Design Manuals  
 Design Memoranda  
 Design Manual Editable Documents  
 CAD Standards Manual  
 CAD Support

**INDIANA DESIGN MANUAL 2013- CURRENT**  
 Welcome to the current version of the Indiana Design Manual. The Design Manual was restructured during 2011 and 2012. Those chapters that have not yet been revised are found in their new just and chapter location but retain their existing chapter number. The IDM Chapter Reorganization document for details.  
 Active on or after January 1, 2013  
 The on-line version of the Design Manual was last updated: 01/28/2015  
 Revisions to the Design Manual occurring after January 1, 2013 have been incorporated into this current Indiana Design Manual 2013. Users should consult design memos for revisions to design standards changes by subscribing to Design Consultants Listserv.  
 This page last updated: January 28, 2015.  
 Download complete Indiana Design Manual 2013 - Current (PDF 60.5 MB) (rev SEP 14)

*Design Manual occurring after January 1, 2013 has been restructured... Indiana Design Manual 2013. Users should consult design memos for revisions to the Design Manual 2013. Users should consult design memos for revisions to design standards changes by subscribing to Design Consultants Listserv.*

*dated January 28, 2015.*

# Communication

- Design Memos communicate changes to INDOT Policy and Procedures and typically involve revisions to the IDM.
- Design Memos are typically archived after a year but can be sooner if superseded by another memo.

[INDOT](#) > [Doing Business with INDOT](#) > [Standards & Specifications](#) > Active Design Memoranda

This Page Last Updated: 10/24/2014

Number	Memo Date	Effective Date	Affected Design Manual Section	Subject	PDF Files		
					Policy	Advisory	Attachments
14-14	10/23/14	N/A		Flood Control Act Amendment		Advisory	DNR Flood Control Act Amendment
14-13	09/12/14	Immediately	Figures 14-1E, 14-1E(1), 14-1E(2), 14-1E(3)	Tracings Checklist & PS&E Narrative		Advisory	Tracings Checklist PS&E Narrative
		Ready for Contracts					

# Communication

- The memo date will be included next to the heading in the affected sections of the IDM.

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Ready for							
<b>40-8.04(03) Procedure for Exception to Vertical Clearance on the Interstate System [Rev. Jul 2014]</b>							
14-12	10/23/14	2014, lettings on or after October 2014		Congestion Policy (IHCP)	Policy		
14-11	07/01/14	Immediately	40-8.04(03) Figure 40-8A	Interstate Vertical Clearance		Advisory	Figure 40-8A



# Policy Updates



## Q500 Scour Policy, DM 14-02

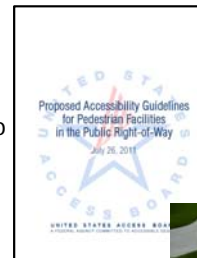
- No longer acceptable to estimate the 0.2% exceedance probability (EP), by multiplying the 1% EP by 1.7

## Alterations Which Require ADA Curb Ramps, DM 14-03

- DOT/DOJ provide a consistent definition for "alteration" which enacts the requirement to install or retrofit curb ramps as part of the project.

## Determination of Technical Infeasibility, DM 14-05

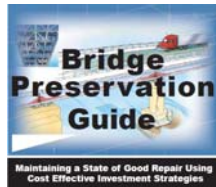
- Policy and process for seeking an exception to ADA compliance due to technical infeasibility



# Policy Updates

## Railroad-Highway Crossing Train-Activated Safety Devices, DM 14-07

- Updating safety features when a project is near an at-grade crossing.



## Bridge Preservation, DM 14-08

- Defines bridge preventative maintenance activities eligible for Federal participation.
- Bridge/Culvert Preservation Initiative (BCPI)

## Practical Design, DM 14-10

- Allowed use of the Green Book minimum values for geometric criteria in lieu of IDM



# Policy Updates

## Interstate Highways Congestion Policy, DM 14-12

- Pre-approved interstate lane closure and restriction times revised
- Effects of lane width reductions on capacity updated to be consistent with the 2010 Highway Capacity Manual


Figure B-1. Statewide Pre-approved Single Lane Restriction Map





# Policy Updates

[INDOT > Doing Business with INDOT > Standards and Specifications > Standard Specifications](#)

- **Standard Specifications**
  - Published on a 2-year cycle. 2016 Standard Specifications go into effect September 1, 2015.
  - Revisions may or may not currently be RSPs.
  - The February Standards Committee meeting is the cutoff to be included in the 2016 book. The agenda and meeting minutes are on-line.
  - A revision summary will be available with the on-line version.
- **Select Highlights**
  - 731 – define responsibility of global, external, and internal stability; use of geotextile between dissimilar soils
  - 705 –sidewalk on approach slabs should be paid for as sidewalks on structures.
  - 701 – PDA testing on LPA contracts. Certifications for geotechnical engineer.
  - 628 – New pay items for Computer system equipment








# Policy Updates

- **Standard Drawings**
  - Published annually. 2015 Standard Drawings go into effect September 1, 2015.
  - The February Standards Committee meeting is the cutoff to be included in the 2015 set. The agenda and meeting minutes are on-line.
  - Revised drawings are compiled as a separate link on-line.
- **New from 2014**
  - 609-RCBA (Reinforced Concrete Bridge Approach) – increased bar size and reduced reinforcing spacing to 8" in top mat, incorporated threaded tie bar assembly in lieu of 599 bar, removed hook from top bars

**INDOT Standard Drawings**

- Effective on or after September 2, 2014
  - Standard Drawings Complete Set
  - Standard Drawings Index
- Revised & New Drawings
  - English

## Design Manual Updates

- **Chapter 502 – Traffic Design published**
  - Rewrite of Chapters 75, 76, 77, and 78
- **Chapter 304 – Comprehensive Pavement Analyses**
  - Rewrite of Chapter 52
  - AASHTO Pavement ME, Safety Edge, Pavement Design needed for almost all scenarios.
- **Subgrade Treatment (DM 14-04)**
  - Types IA and IIIA were deleted from the Standard Specifications.
  - Revisions to affected Standard Drawings are in progress. Use Type II where Type IIIA is shown.



## Design Manual Updates

- **Bridge Railing Offset, Figure 402-6H**
  - Corrected net gain/loss due to connection for each bridge railing type
  - Identified uniform offset as the preference regardless of project type.
  - Guardrail offset is from useable shoulder
- **Interstate Vertical Clearance Design Exceptions**
  - Updated military contact information and cover letter needed when requesting a design exception for vertical clearance on the Interstate.



# Practice Pointers

## Unique Special Provisions (USP) Samples Index

- Maintained by Construction Division on the Standards and Specifications website  
[INDOT > Doing Business with INDOT > Standards and Specifications > Special Provisions & Recurring Plan Details](#)
- Each USP must be verified by the designer and modified as appropriate for the specific project.
- USPs selected from this list must still be reviewed by the Specifications Engineer

## Bridge Design Practice Pointers

- ASCE-INDOT Structures Committee has published a list of Bridge Design Software and Bridge Detailing practice pointers  
[INDOT > Doing Business with INDOT > Consultants/Pre-Construction > Designers > Bridges & Structures](#)



# Practice Pointers

## Coordination between Standard Drawings and Standard Specifications

- The leading 3-digits of a Standard Drawing correlates to the associated section in the *Standard Specifications*
- Method of Measurement (units) and Basis of Payment (pay item name and what's included in the cost) only appear in the specifications
- In instances where the IDM is in conflict with the Standard Specifications, the Standard Specifications govern.

INDIANA DEPARTMENT OF TRANSPORTATION	
REINFORCED CONCRETE BRIDGE APPROACH SQUARE	
SEPTEMBER 2014	
STANDARD DRAWING NO.	609-CBA-01
	/s/ Elizabeth W. Phillips 03/04/14 DESIGN STANDARDS ENGINEER DATE
	/s/ Mark R. Miller 03/04/14 DEEP ENGINEER DATE

609.01

**SECTION 609 REINFORCED CONCRETE BRIDGE APPROACHES**

### 609.01 Description

This work shall consist of constructing reinforced concrete bridge approaches, RCBA, and extensions required for bridge railing transitions in accordance with 105.03.



## Practice Pointers

**Plans, specifications, and the estimate should be complimentary to each other. When there is a conflict, hierarchy is per the Standard Specifications.**

**SS 105.04**  
Notes on plans which are not also included in either the special provisions or among the general notes portion of the plans, and refer to payment, non-payment, or cost to be included in that of other pay items, will not govern over specifications.

## Practice Pointers

**Use of a crash-tested bridge railing that is not an INDOT Standard.**

- IDM 404-4.02(02) FHWA-Approved Non-INDOT-Standard Railings.
- Must have an acceptance letter from FHWA that approves the device for use; and
- details for the device as successfully crash tested must be included on the plans.

**Reminders**

- Do not include a PDF of another State DOT's standard on the plans. Other State DOTs may have information on the drawing that does not match INDOT Standard Specifications
- Determine how it will be paid for and if the material requirements are covered by the Standard Specifications.
- Discuss the maintenance requirements with the Owner agency. Unique features may be expensive to maintain or replace when damaged.



## Work in Progress

### Revisions to the IDM, Standard Drawings, and Standard Specifications for Curb Ramps are in Progress.

- Revisions will bring guidance in line with the Public Right of Way Accessibility Guidelines (PROWAG)
- Highlights
  - Minimum width is 4 ft. For sidewalks, where less than 5 ft is provided, 5x5 passing spaces must be provided every 200 ft.
  - Grade of the sidewalk can match the grade of the adjacent roadway. Level landings and handrail are not required on the sidewalk when grade exceeds 5% due to matching the adjacent roadway.
  - More often than not, curb ramps cannot be constructed exactly as shown on the standard drawing. Significant field design is occurring.
  - Curb ramp standard drawing revisions will not be identified by type (A, B, etc) and will not have estimated quantities. Enough detail to evaluate compliance will be required on plans (spot elevations, etc.) and quantities will need to be shown.
  - Pedestrian MOT must be included if pedestrian facilities are impacted.



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