Design Standards

2014 Design Update Training

Darren Martin
Design Standards Specialist
darren.martin@dot.state.fl.us
NEW FOR 2014

Roadway Standards

Design Standards

Roadway Design Standards

http://www.dot.state.fl.us/rd/design/ST/Default.shtm

Topics

- Design Standards
- Design Bulletins
- Lighting
- Maintenance of Traffic
- Roadside Barriers
- Signaling and ITS
- Signing and Pavement Marking

Other Links of Interest

- ADA Public Rights of Way
- Construction Office
- Hydraulics Section
- System Management Documents
  - Driveway Guide, Permits, Median Handbook and more
- Engineering CADD (ECSD)
- MUTCD
- Roadway Criteria

Contact Us

- VACANT - Roadway Standards Administrator
  - Ezzeldin Benghuzzi
  - Maintenance of Traffic Specialist
  - Chester Henson, P.E.
  - State Traffic Standards Engineer
  - Darren Martin
  - Design Standards Specialist
  - John Mauthner, P.E.
  - Design Standards Engineer
  - Roger McLendon
  - Engineering Systems Specialist
  - VACANT
  - Roadway Design Engineer
  - VACANT
  - Design Standards Engineer

Roadway Standards Section Leader

- (850) 414-4352 - Maintenance of Traffic Program (MOT)
- (850) 414-4117 - Traffic Standards, Lighting, Signization
- (850) 414-4824 - Design Standards Publication - Virtual Implementation - Computer Aided Drafting and Design (CADD) Support
- (850) 414-4334 - Design Standards Engineer
- (850) 414-4070 - Computer Aided Drafting and Design (CADD)/Engineering Applications Support - Web Author - Design Standards Technician

Many links on our site are PDF files and best viewed with Adobe Acrobat Reader.
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Design Standards

INDUSTRY REVIEW

Origination Form
Instructions
Example

Current Submittals
Under Review

Submittal History

Office of Design

Florida Department of TRANSPORTATION

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Office of Design / Design Standards

Design Standards

INDUSTRY REVIEW

Origination Form - instructions - Example
Current Submittals Under Review
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Click on the Current eBooklet link “DSeB” for the most current Design Standards.

Thank you for visiting our site.

HISTORICAL

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NEW FOR 2014

ORIGINATION FORM

CONTACT
Date: 
Name: 
Phone: 
Email: 

DESIGN STANDARDS
Index No.: 
Title: 
Sheet No.: 

COMMENTARY

BACKGROUND

IMPLEMENTATION
☐ Immediate deployment via a Roadway Design Bulletin (Virtual Implementation), allowing use on projects with lettings beginning in .

OR
☐ Deployment of index will be accomplished for the Design Standards e-Booklet, allowing use on projects with lettings beginning January 1, .
A Roadway Design Bulletin will be required to release the Design Standards.
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ORIGINATION FORM

OTHER AFFECTED DOCUMENTS

1. Other Design Standards – N/A
2. Utility Accommodation Manual – N/A
3. Plans Preparation Manual – N/A
4. Basis of Estimates Manual – N/A
5. Standard Specifications – N/A
6. Other – N/A

ORIGINATION PACKAGE

- This origination package includes:
  - Design Standards - Origination Form,
  - Proposed Index Drawing(s),
  - Revised Index Drawing(s),
  - Proposed IDS,
  - Revised IDS,
  - Red-line Mark-ups,
  - Other Support Documents,

NOTE:
Clicking SEND will create an Origination e-mail.
Please, attach all supporting documents in this e-mail to complete the Origination Package.
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ORIGINATION FORM

e-mail
Attach All Documents to Complete the Origination Package

Indicate Index Number in the subject line of the e-mail
NEW FOR 2014

INDUSTRY REVIEW

Origination Form Instructions Examples
NEW FOR 2014

Origination Form

Instructions

2014 Design Update Training

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DESIGN STANDARDS - ORIGINATION FORM

CONTACT
Date: Date of Origination (m/d/yyyy) - (This date does not change).
Name: Name of the Person Hosting the Revision or New Index. This Host will be the key contact person for questions, comments and responses related to the index.
Phone: Phone Number of the Host. (10 digits and Enter)
Email: Host email Address.

DESIGN STANDARDS
Index No.: Only one (1) Index Number per Revised Index Drawing(s) Origination Form.
When establishing a New Index, list the Proposed Index Number. Coordinate with the Design Standards Manager to Establish the New Index Number.
Title: List the existing Index Title; or the Proposed Index Title of a New Index.
Sheet No.: List the Sheet Number(s) Affected by the Revision or list the Number of Sheets for the New Index.

COMMENTARY
Describe the need for hosting a revision to this design standard. This description should be no more than one or two sentences long. Commentary on new indexes; this section provides the essential technical support behind the new requirement. It includes references to literature (both pro and con), directives, studies, research findings and other information that influences the decision to create a new index.

BACKGROUND
This section discusses the circumstances that prompted the revision or new index. It does not duplicate the commentary section. It should simply facilitate the reader's understanding of the issue or situation that occurred and adequate responses to such issues. The background includes the history of a practice, problem, issue, concern, reference, sources of information, etc.

IMPLEMENTATION
Virtual Implementation revisions will be issued without restriction on an "as needed" basis to effect changes which require immediate implementation (affect safety) or are cost effective to implement immediately (cost savings to Design, Construction, or Maintenance). This section specifies the method of deployment. In any case, an immediate deployment for Virtual Implementation candidates involves issuing a Roadway Design Bulletin with appropriate timeline for implementation.

- Immediate deployment via a Roadway Design Bulletin (Virtual Implementation), allowing use on projects with lettings beginning in MONTH, 20XX.

- Deployment of Index ###### will be accomplished for the 20XX Design Standards e-Booklet, allowing use on projects with lettings beginning January 1, 20XX. A Roadway Design Bulletin will be required to release the 20XX Design Standards. Choose the applicable deployment method (select only one).
### NEW FOR 2014

**INDUSTRY REVIEW**

Origination Form

Instructions

Examples

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**Office of Design**

**Office of Design / Design Standards**

**Design Standards**

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**INDUSTRY REVIEW**

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Origination Form

Examples

DESIGN STANDARDS - ORIGINATION FORM

CONTACT
Date: April 19, 2013
Name: John Meuthner, P.E. - Design Standards Manager
Phone: (850) 414-4334
Email: John.Meuthner@dot.state.fl.us

DESIGN STANDARDS
Index No.: 304
Title: Detectable Warnings and Sidewalk Curb Ramps
Sheet No.: 1-7 (New Sheets)

COMMENTARY
This revision is based on the redevelopment of Index 304.

BACKGROUND
Over the last 30 months calls and comments have been received in the Criteria and Standards Office with the following request: In Index 304 the curb ramp design details are not buildable and lack sufficient detail. The Construction Office received multiple requests from Contractors to generate a “Summary of Detectable Warnings” table which quantify the area of detectable warnings for typical curb ramp applications. In order to provide adequate resolve the Design Standards Office, Central Office ADA Coordinator, and the Construction Office hosted revisions to the redevelopment of Design Standard, Index 304.

IMPLEMENTATION

☐ Immediate deployment via a Roadway Design Bulletin (Virtual Implementation), allowing use on projects with lettings beginning in

OR

☐ Deployment of Index 304 will be accomplished for the 2014 Design Standards e-Booklet, allowing use on projects with lettings beginning January 1, 2014. A Roadway Design Bulletin will be required to release the 2014 Design Standards.
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INDUSTRY REVIEW

Current Submittals Under Review

### INDUSTRY REVIEW

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NEW FOR 2014

INDUSTRY REVIEW

Design Standard Industry Review

The following files are in the developmental process and are posted for Review. If you have comments, please use the comments section below. To track the History of proposed revisions go to Track the Status of Proposed Revisions.

Note: Files on this page are in Adobe Acrobat (PDF) format. All files are less than 3mb in size unless noted otherwise.

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Select the Design Standard you want to comment on:

Enter your comments in the space provided below. (Time will expire in 30 minutes)

Tell us how to get in touch with you:

Name:
Phone:
E-mail:
Confirm E-mail:

[ ] Please Contact me as soon as possible regarding this matter.

Upload a file: (File must be a PDF and less than 14 MB in size.)

Select file to upload:

Submit
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### INDUSTRY REVIEW

**Submittal History**

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### Submittal History

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INDUSTRY REVIEW HISTORY

Office of Design

Office of Design / Design Standards / Industry Review History

Industry Review History

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INDUSTRY REVIEW COMMENTS AND RESPONSES

Industry Review Comments and Responses

Index 412
Low Profile Barrier

ORIGINATION
Date: November 4, 2013
Name: Chester Henson
Phone: (850) 414-4117
Email: chester.henson@dot.state.fl.us

COMMENTARY
Note 1: (ADD) Pursuant to 35 United States Code, Chapter 18, also known as the Bayh Dole Act of 1980, the non mountable curb was developed through federal funding.

Note 2: (ADD) This legally mandated relationship is unique to federally funded University patents that Department contractors use on contracts. Pursuant to federal law, the University may pursue royalties for a valid patent.

COMMENTS AND RESPONSES
BLACK = Industry Review Comments  RED = Design Standards Response

John Swift
December 12, 2013 9:56 AM
The additions seem to be only housekeeping and copy right issues, No problem.

Design Standards Response
January 15, 2014
Thank you for your response.

Phillip Bello
December 12, 2013 12:16 PM
The FHWA has reviewed the proposed changes to design standard Index 00412. We do not have comments/concerns since the amendments only address the intellectual property claim that the University of Florida has over the low profile wall. The wall's installation or configuration and the design speed requirement are not being changed. Please feel free to call if you have any other questions.

Design Standards Response
January 15, 2014
Thank you for your response.

January 15, 2014  Page 1 of 1
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Design Standards

CURRENT

eBooklet 2014

Design Standards Revisions

Developmental Design Standards
### TABLE 1

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<tr>
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<td>Drip</td>
<td>Irrigation</td>
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#### GENERAL NOTES

1. Specifications for geotextiles are in Section 985. Physical criteria for each application is provided by this standard, in conjunction with these sections.

2. All values except AOS are MINIMUM AVERAGE Roll values. The nearest decimal value, for AOS are MAXIMUM AVERAGE Roll values.

3. Test soil or fill material adjacent to geotextile to determine the soil for compatibility with AOS.

4. Unless specifically restricted in COMMENTS column, any type of material meeting specification 985 may be used.

5. A minimum tensile strength is expressed in units of lbs/in² in machine direction and cross direction, as NO x CD.

6. The manufacturer shall provide results in English Units.

7. UV Resistance: The value represents the percent minimum tensile strength retained (ASTM-D-4832) after weathering per ASTM-D-4355 for the test period (hours).

8. Shear stress limits for plastic erosion rates determined by 30 minutes sustained flow in unrestrained tests as determined by tests performed by Utah State University, Texas Transportation Institute or an independent testing laboratory approved by the State Drainage Engineer.

#### STANDARDS CRITERIA

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(1) Type refers to FDOT class and application.
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### Design Standards

### Design Standards Revisions

### Office of Design

**Design Standards Revisions 2014**

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<td>DGN-21252</td>
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n/a = Non Applicable  
n/c = No Change
### NEW FOR 2014

**Design Standards**

**Developmental Design Standards**

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### Developmental Design Standards

<table>
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<tr>
<th>Design Developmental Index No.</th>
<th>Title</th>
<th>Monitor</th>
<th>Instructions for Developmental Design Standards (PDF)</th>
<th>Applicable Developmental Specifications?</th>
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<tr>
<td>D477</td>
<td>Three-Beam Panel Retrofit (Concrete Handrail) (NOTE: Migrated to the Design Standards effective for lettings beginning January 2014. See Index 477 in the current Design Standards Booklet)</td>
<td>Gevin McDaniel</td>
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<tr>
<td>D591</td>
<td>Landscape Irrigation Sleeves</td>
<td>Jeff Caster</td>
<td>NO</td>
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<td>D6025</td>
<td>GRS-IBS</td>
<td>Larry Jones</td>
<td>YES</td>
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<td>D17749</td>
<td>Damping Device for Miscellaneous Structures</td>
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<td>D20310</td>
<td>Typical Inverted-T Beam Details and Notes</td>
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<td>D20320</td>
<td>Inverted-T Beam Standard Details</td>
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<td>D20350</td>
<td>Prestressed Slab Units</td>
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<td>12” Custom Width Prestressed Slab Unit Standard Details</td>
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**NEW FOR 2014**

**Design Standards**

**HISTORICAL**

eBooklet 2013

eBooklet Fiscal Year 2012/2013

eBooklet 2010 through 2000

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### INDUSTRY REVIEW
- Origination Form - Instructions - Example
- Current Submittals Under Review
- Submittal History

### CURRENT

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<td><strong>DSR</strong></td>
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Click on the Current eBooklet link "**DSoB**" for the most current Design Standards.

Thank you for visiting our site.

### HISTORICAL

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Select the desired Historical Standards Booklet, Interim Standards or Standards Modification by clicking on their underlined symbol. The dates shown under Design Standards Modifications are the effective dates of the Modifications with detailed content in English Units unless otherwise noted.

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<td>Standards</td>
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<td>2004</td>
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NEW FOR 2014

Roadway Design Standards

Topics
- Design Standards Procedure
- Design Standards
- Design Bulletins
- Lighting
- Maintenance of Traffic
- Roadside Barriers
- Signalization and ITS
- Signing and Pavement Marking

Other Links of Interest
- ADA Public Rights of Way
- Construction Office
- Hydraulics Section
- System Management Documents
- Driveway Guide, Permits, Median
- Handbooks and more
- Engineering CADD (ECSO)
- MUTCD
- Roadway Criteria

Contact Us
- VACCANT, Roadway Standards Administrator
- Ezzeldin Benghuzzi, Maintenance of Traffic Specialist
- Chester Henson, P.E., State Traffic Standards Engineer
- Darren Martin, Design Standards Specialist
- John Wauthner, P.E., Design Standards Engineer
- Roger McLeod, Engineering Systems Specialist
- VACCANT, Roadway Design Engineer
- VACCANT, Design Standards Engineer

Roadway Standards Section Leader
- (850) 414-4352, Maintenance of Traffic Program (MOT)
- (850) 414-4117, Traffic Standards, Lighting, Signization
- (850) 414-4024, Design Standards Publication - Virtual Implementation - Computer Aided Drafting and Design (CADD) Support
- (850) 414-4334, Design Standards Engineer
- (850) 414-4079, Computer Aided Drafting and Design (CADD)/Engineering Applications Support-Web Author-Design Standards Technician

Many links on our site are PDF files and best viewed with Adobe Acrobat Reader.
2014 Update Training

The End

Please visit us at:
http://www.dot.state.fl.us/rddesign/ST/Default.shtm

or

contact me
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