Design Standards



2014 Design Update Training

Darren Martin

Design Standards Specialist

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Roadway **Standards**

Design **Standards**





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Roadway Design http://www.dot.state.fl.us/rddesign/ST/Default.shtm

Roadway Design / Roadway Standards Roadway Standards



Projects

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 Handbook and more Engineering CADD (ECSO) MUTCD Roadway Criteria

Specifications - Estimates Structures Design Office Traffic Engineering Office Transit Design Handbook Traffic Engineering Manual Utilities Office

Contact Us

VACANT Roadway Standards Section Leader Roadway Standards Administrator Ezzeldin Benghuzzi (850) 414-4352 Maintenance of Traffic program (MOT) Maintenance of Traffic Specialist Chester Henson, P.E. State Traffic Standards Engineer Darren Martin (850) 414-4824 Design Standards Specialist John Mauthner, P.E. (850) 414-4334 Design Standards Engineer Roger McLendon (850) 414-4079 Engineering Systems Specialist VACANT Roadway Design Engineer VACANT

Design Standards Engineer

(850) 414-4117 Traffic Standards, Lighting, Signalization Design Standards Publication - Virtual Implementation -Computer Aided Drafting and Design (CADD) Support

Design Standards Engineer

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 🎽

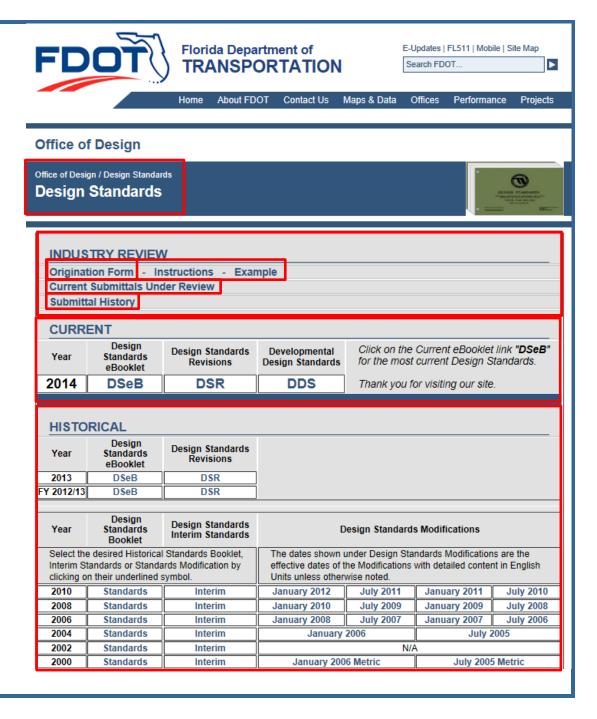
Design Standards INDUSTRY REVIEW

Origination Form Instructions Example

Current Submittals Under Review

Submittal History





ORIGINATION FORM

| CONTACT Date: Name: Phone: Email: DESIGN STANDARDS Index No.: DISIGN STANDARDS Index No.: COMMENTARY BACKGROUND IMPLEMENTATION | INSTRUCTIONS |
|--|--------------|
| Name: Phone: Email: DESIGN STANDARDS Index No.: Title: Sheet No.: COMMENTARY BACKGROUND | EXAMPLE |
| Phone: Email: DESIGN STANDARDS Index No.: Title: Sheet No.: COMMENTARY BACKGROUND | |
| Email: DESIGN STANDARDS Index No.: Title: Sheet No.: COMMENTARY BACKGROUND | |
| Index No.: | |
| Title: Sheet No.: COMMENTARY BACKGROUND | |
| COMMENTARY BACKGROUND | |
| COMMENTARY BACKGROUND | |
| BACKGROUND | |
| | |
| | |
| | |
| ✓ Immediate deployment via a <u>Roadway Design Bulletin</u> (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. | |

Florida Department of Transportation - Design Standards

Origination Form



ORIGINATION FORM

Origination Form

Florida Department of Transportation - Design Standards

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, |
| |

SAVE

SEND

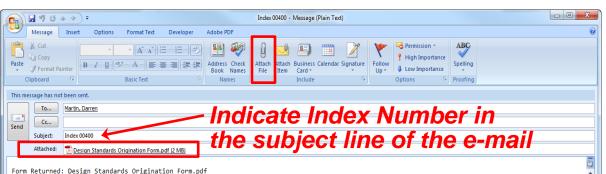
NOTE: Clicking SEND will create an Origination e-mail. Please, attach all supporting documents in this e-mail to complete the Origination Package.



Page 2 of 2



e-mail Attach All Documents to Complete the Origination Package



The attached file is the filled-out form. Please open it to review the data.



INDUSTRY REVIEW

Origination Form Instructions Examples



Florida Department of E-Updates | FL511 | Mobile | Site Map TRANSPORTATION Search FDOT. Home About FDOT Contact Us Maps & Data Offices Performance Projects Office of Design Office of Design / Design Standards **Design Standards** INDUSTRY REVIEW Origination Form Instructions Example Current Submittals Under Review Submittal History CURRENT Desian Click on the Current eBooklet link "DSeB" Design Standards **Developmental** Year Standards for the most current Design Standards. Revisions **Design Standards** eBooklet 2014 DSeB DSR DDS Thank you for visiting our site. HISTORICAL Design Design Standards Year Standards Revisions eBooklet DSR 2013 DSeB DSR FY 2012/13 DSeB Design Design Standards Standards **Design Standards Modifications** Year Interim Standards Booklet Select the desired Historical Standards Booklet. The dates shown under Design Standards Modifications are the Interim Standards or Standards Modification by effective dates of the Modifications with detailed content in English clicking on their underlined symbol. Units unless otherwise noted 2010 January 2012 January 2011 July 2010 Standards Interim July 2011 January 2010 January 2009 2008 Standards Interim **July 2009 July 2008** July 2007 2006 Standards Interim January 2008 January 2007 **July 2006** 2004 Standards January 2006 July 2005 Interim 2002 Standards Interim N/A January 2006 Metric 2000 Standards July 2005 Metric Interim

Origination Form Instructions



Origination Form

Florida Department of Transportation - Design Standards

INSTRUCTIONS

EXAMPLE

| DESIGN STANDARDS - 0 | ORIGINATION FORM |
|----------------------|------------------|
| | |

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

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.

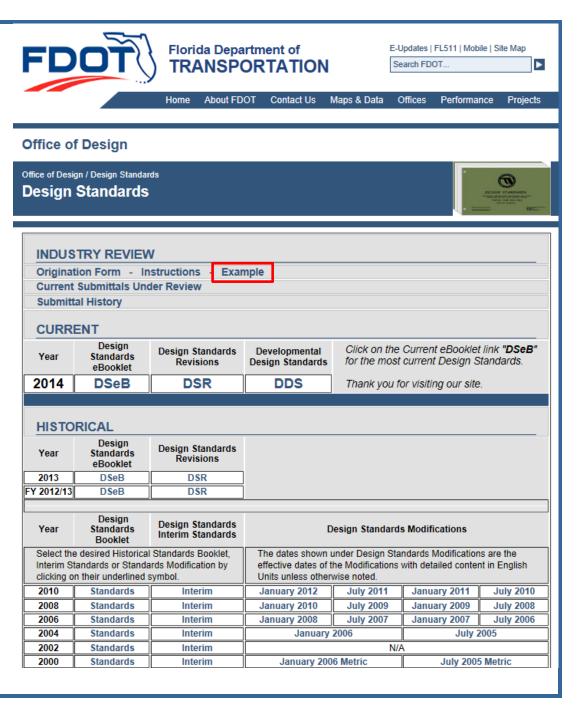
Immediate deployment via a Roadway Design Bulletin (Virtual Implementation), allowing use on projects with lettings beginning in MONTH, 20XX.

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).

INDUSTRY REVIEW

Origination Form Instructions Examples





Origination Form Examples

2014 Design

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DESIGN STANDARDS - ORIGINATION FORM

CONTACT

Origination Form

 Date:
 April 19, 2013

 Name:
 John Mauthner, P.E. – Design Standards Manager

 Phone:
 (850) 414-4334

 Email:
 John.Mauthner@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

 \checkmark

Immediate deployment via a <u>Roadway Design Bulletin</u> (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 <u>Roadway Design Bulletin</u> will be required to release the 2014 Design Standards.

Florida Department of Transportation - Design Standards

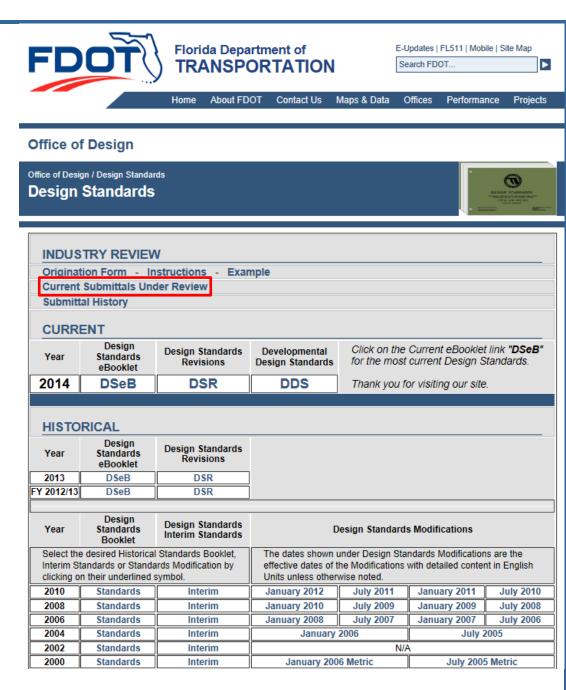
INSTRUCTIONS

EXAMPLE

INDUSTRY REVIEW

Current Submittals Under Review









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Office of Design

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: <u>Track the Status of Proposed Revisions</u>

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

| Origination Form | Index Title | Redlines | Proposed Design Standards Revisions | Review End Date |
|-------------------|------------------------------------|----------------|--|--------------------|
| 18102 Origination | Grounding and Lightning Protection | 18102 Red-Line | 18102 Draft | 2-26-14 |
| 18300 Origination | Dynamic Message Sign Walk-In | 18300 Red-Line | 18300 Draft | 2-26-14 |

Select the Design Standard you want to comment on:

Select Design Standard 💌 *

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.)

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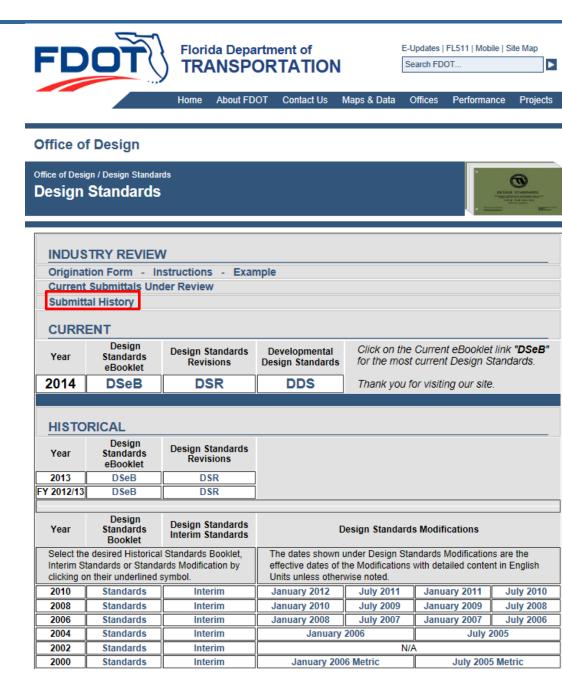
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Submittal History







INDUSTRY REVIEW HISTORY

NEW FOR

2014

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Industry Review History

| Back to Design Standard Industry Review < Click Here | | | | | | |
|--|----------|------------------|---------------------------------------|--|--|--|
| Origination | Redlines | Comment/Response | Proposed Design Standard Revisions | | | |
| 00400 | 00400 | 00400 | 00400 | | | |
| 00410 | 00410 | 00410 | 00410 | | | |
| 00412 | 00412 | 00412 | 00412 | | | |
| 00430 | 00430 | 00430 | 00430 | | | |
| 00510 | 00510 | 00510 | 00510 | | | |
| 17346 | 17346 | 17346 | 17346 | | | |
| 17347 | 17347 | 17347 | 17347 | | | |
| 17500 | 17500 | 17500 | 17500 | | | |

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INDUSTRY REVIEW COMMENTS AND RESPONSES



Industry Review Comments and Responses

FDOT - Design Standards

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

Design Standards

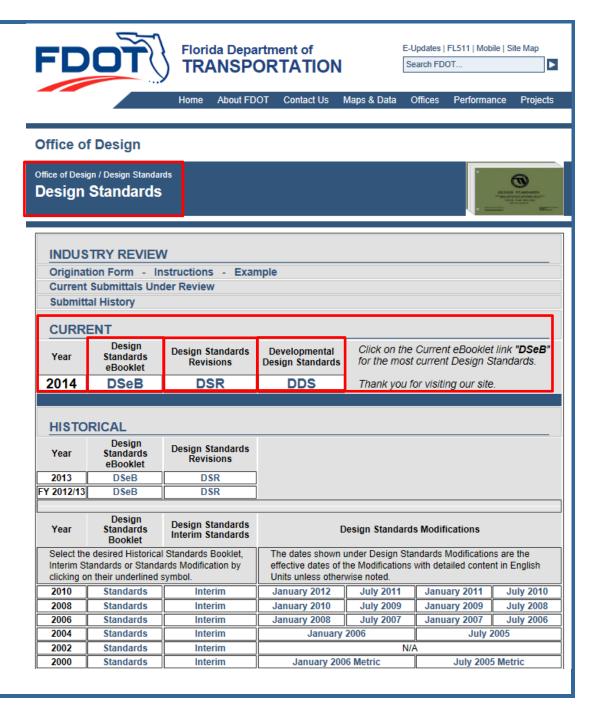
CURRENT

eBooklet 2014

Design Standards Revisions

Developmental Design Standards





| STANDARD CRITERIA | | | | | | | | | | | | | |
|-------------------|------------|---|--------------------------|---|---|--|--|--|--|--|----------------------------|------------|---|
| CLASS | TYPE (1) | | INDEX NO. | PERMITTIVITY (sec") | AOS SIEVE# | MIN. GRAB TENSILE STRENGTH (Ib) | MIN. SEWN STRENGTH (Ib/in) | MIN. PUNCTURE (Ib) | MIN. TRAPEZOIDAL TEAR (Ib) | MIN. WIDE WIDTH TENSILE STRENGTH (Ib/in) | U RESIS (Min. A % | TANCE | COMMENTS |
| | D-1 | Revetment (Special) | | (See D-2) | (See D-2) | 315 | 7.2 | 113 | 113 | | 50 | 500 | Woven Monofilament Geotextiles only (Elongation <50%) Provide 12* thick bedding stone layer. |
| | D-2 | Revetment (Standard) Articulating Block**** Gabions Rack, Rubble, Broken Concrete Mechanically Stabilized Retaining Wall Supporting Spread Footing Foundations | 281 | % 501L PASSING No. 200 SIEVE <15% 0.7 15% to 50% 0.2 >50% 0.1 | % SOIL PASSING No. 200 SIEVE <15% 40 15% to 50% 60 >50% 70* | Woven Monofilament 248 Other Geotextiles: Elongation <50% 315 ≥50% 203 | Woven Monofilament 5.7 Other Geotextiles: Elongation <50% 6.9 ≥50% 4.7 | Waven Manofilament 90 Other Geotextiles: Elongation <50% 113 ≥50% 79 | Woven Monofilament 57 Other Geotextiles: Elongation <50% 113 ≥50% 79 | | 50 | 500 | Woven Geotextiles only. No Slit Film Geotextiles allowed. Provide 12" thick bedding stone layer for revenment (standard). The bedding layer may be omitted if a D-1 fabric is used with revetment (standard). ****Bedding Stone not required for Articulating Block. *For cohesive soils with a plasticity index >7, maximum average roll value for AOS is number 50 sieve. |
| RAINAGE (D) | | Underdrain *** French Drain Sheet Piling Filter Filter Fabric Jacket (Culvert) Concrete Pavement Subdrainage Slope Pavement (Sand-Cement) | 286 285 280 287 | % SOIL PASSING No. 200 SIEVE <15% 0.5 15% to 50% 0.2 >50% 0.1 | % SOIL PASSING No. 200 SIEVE <15% 40 15% to 50% 60 >50% 70* | Elongation <50% 248 ≥50% 158 | Elongation <50% 5.7 ≥50% 3.6 | Elongation <50% 90 ≥50% 57 | Elongation <50% 90** ≥50% 57 | | 50 | 500 | No woven slit film fabrics allowed. *For cohesive soils with a plasticity index >7, maximum average roll value for AOS is number 50 sieve. **Required Trapezoidai tear for woven monofilament is 250. ***See Index No. 286 for the permittivity and AOS values of the internal filter fabric of Type V Underdrain. Non-woven, needle-punch only. |
| | D-4 D-5 | Ditch Pavement (Sand-Cement) Mechanically Stabilized Retaining Wall Cast-In-Place Retaining Wall | 281 | 0.5 | 40 40 | 180 180 | 4.2 | 50 50 | 35 | | 50 50 | 500 500 | Elongation ≥50% |
| | D-6 | Slope Pavement (Concrete) Ditch Pavement (Concrete) | 281 | 0.5 | 40 | 180 | 4.2 | 50 | 35 | | 50 | 500 | Non-woven, needle-punch only. Elongation ≥50% |
| | E-1 | Staked Silt Fence | | 0.05 | NA | 90 | 2.1 | NA | 35 | | 80 | 500 | Min. Filtration Efficiency of 75% & min. flow rate of 0.3 gal. |
| | E-2 | Wind Screen | | 0.05 | NA | 90 | 2.1 | NA | NA | | 80 | 150 | |
| ROSION | E-3 | Plastic Erosion Mat (Turf Reinforcement Mat) (Type 1) | | NA | NA | NA | NA | NA | NA | 12 x 6 | 80 | 500 | Use where design shear stress is ${ \simeq 2.1 }$ psf |
| (E) | E-4 | Plastic Erosion Mat (Turf Reinforcement Mat) (Type 2) | | NA | NA | NA | NA | NA | NA | 23 x 12 | 80 | 500 | Use where design shear stress is ≤3.6 psf |
| | E-5 | Plastic Erosion Mat (Turf Reinforcement Mat) (Type 3) | | NA | NA | NA | NA | NA | NA | 46 x 23 | 80 | 500 | Use where design shear stress is ≤5.0 psf |

(1) Type refers to FDOT class and application.

TABLE I

| Test | Unit | Test Method |
|--|-------------------------------|--|
| Permittivity | sec⊣ | ASTM-D-4491 |
| AOS | U5 5leve No. | ASTM-D-4751 |
| Elongation | % | ASTM-D-4632 |
| Grab Tensile Strength Wide Width Tensile Strengt Maximum Design Velocity | lb h lb/in fps lb/in | ASTM-D-4632 ASTM-D-4595 See Note 8 |
| Sewn Strength | lb | ASTM-D-4884 |
| Puncture | lb | ASTM-D-4833 |
| Trapezoidal Tear | % Retained | ASTM-D-4533 |
| Ultraviolet Resistance | In Strength | See Note 7 |
| Filtration Efficiency | % | ASTM-D-5141 |
| Flow Rate | gal³/min | ASTM-D-5141 |

GENERAL NOTES

- application is provided by this standard, in conjunction with those sections.
- 2. All values except AOS are MINIMUM AVERAGE ROLL values in the weakest principal direction. Values for AOS are MAXIMUM AVERAGE ROLL values.
- 3. Test soil or fill material adjacent to the geotextile for gradation to select values for permittivity and AOS.
- 4. Unless specifically restricted in COMMENTS column, any type of material meeting specification 985 may be used.

Pipe Backfill

- 1. Specifications for geotextiles are in Section 985. Physical criteria for each 5. Wide width tensile strength is expressed in units of measure of Ib./in., in machine direction and cross direction, as MD x CD.
 - 6. The Manufacturer shall provide results in English Units.
 - 7. UV Resistance: The value represents the percent minimum textile strength retained (ASTM-D-4632) after weathering per ASTM-D-4355 for the test period (hours).
 - 8. Shear stress limits for plastic erosion mats determined by 30 minutes sustained flow in unvegetated state as determined by tests performed by Utah State University, Texas Transportation Institue or an independant testing laboratory approved by the State Drainage Engineer.

| LAST REVISION 07/01/13 | FDOT 2014 DESIGN STANDARD | 5 GEOTEXTILE CRITERIA | INDEX NO. 199 | sheet No. 1 of 1 |
|------------------------------|------------------------------|---|----------------------------|------------------------|
| 2014 Dosign | 201 | Supplementary Details for Manholes & Inlets | | |

205

2014 Design Update Training

Design Standards

Design Standards Revisions



Office of Design

Office of Design / Design Standards / Design Standards Revisions 2014 **Design Standards Revisions 2014**



►

Projects

n/a = Non Applicable n/c - No Change

| | Revised Sheets | | Design Information | | | |
|-----------------|-------------------|--|--|----------------------------|--------------------------|----------------------------------|
| Index Number | | | Instructions for Design Standards (IDS) | Data Table Cell Library | Borderless DGNs | Associated Design Bulletin |
| | (PDF) | | (PDF) | (ZIP) | (ZIP) Terms of Use | (PDF) |
| 05200 | n/c | Precast Noise Walls | IDS-5200 | CEL-5200 | n/c | SDB14-02 |
| 05250 | 1-10 of 10 | Perimeter Walls | IDS-5250 | CEL-5250 | DGN-5250 | SDB14-02 |
| 21110 | 1 of 2 | Poured Joint with Backer Rod Expansion Joint System | n/c | n/c | DGN-21110 | SDB14-02 |
| 21250 | n/c | Access Hatch Assembly for Steel Box Sections | IDS-21250 | n/a | n/c | SDB14-02 |
| 21251 | n/c | Access Hatch Assembly for Concrete Box Sections | 10-3-21200 | n/a | n/c | SDB14-02 |
| 21252 | 1 of 1 | Access Door Assembly for Steel Box Sections | IDS-21252 | CEL-21252 | DGN-21252 | SDB14-02 |



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Developmental Design Standards



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Developmental Design Standards



| For Developmental Design Standards Process <click here<="" th=""></click> | | | | | | | |
|---|---|------------------|--|--|--|--|--|
| Design Developmental Index No. (PDF) | Title | Monitor | Instructions for Developmental Design Stds (PDF) | Applicable Developmental Specifications? (YES/NO) | | | |
| * TRAFFIC RAILINGS * | | | | | | | |
| D477 | Thrie-Beam Panel Retrofit (Concrete Handrail) (NOTE***Migrated to the <i>Design Standards</i> effective for lettings beginning January 2014; See Index 477 in the current <i>Design Standards</i> <i>eBooklet</i>) | Gevin McDaniel | | NO | | | |
| * GENERAL * | | | | | | | |
| D591 | Landscape Irrigation Sleeves | Jeff Caster | | NO | | | |
| * WALL SYSTEMS * | | | | | | | |
| D6025 | GRS-IBS | Larry Jones | IDDS-D6025 | YES | | | |
| * TRAFFIC SIGNAL AND EQUIPMENT * | | | | | | | |
| D17749 | Damping Device for Miscellaneous Structures | Gevin McDaniel | IDDS-D17749 | NO | | | |
| * PRESTRESSED CONCRETE INVERTED-T BEAMS * | | | | | | | |
| D20310 | Typical Inverted-T Beam Details and Notes | Courie Matterial | IDDS-D20310 | NO | | | |
| D20320 | Inverted-T Beam Standard Details | Gevin McDaniel | | NO | | | |
| * PRESTRESSED CONCRETE SLAB UNITS * | | | | | | | |
| D20350 | Prestressed Slab Units | | IDD S-D20350 | YES | | | |
| D20353 | 12" Custom Width Prestressed Slab Unit-Standard Details | | | | | | |
| D20354 | 12"x48" Prestressed Slab Unit - Standard Details | | | | | | |
| D20355 | 12"x60" Prestressed Slab Unit - Standard Details | | | | | | |
| D20363 | 15" Custom Width Prestressed Slab Unit-Standard Details | Gevin McDaniel | | | | | |
| D20364 | 15"x48" Prestressed Slab Unit - Standard Details | | | | | | |
| D20365 | 15"x60" Prestressed Slab Unit - Standard Details | | | | | | |
| D20399 | Overlay & Deflection Data for Prestressed Slab | <u> </u> | | | | | |

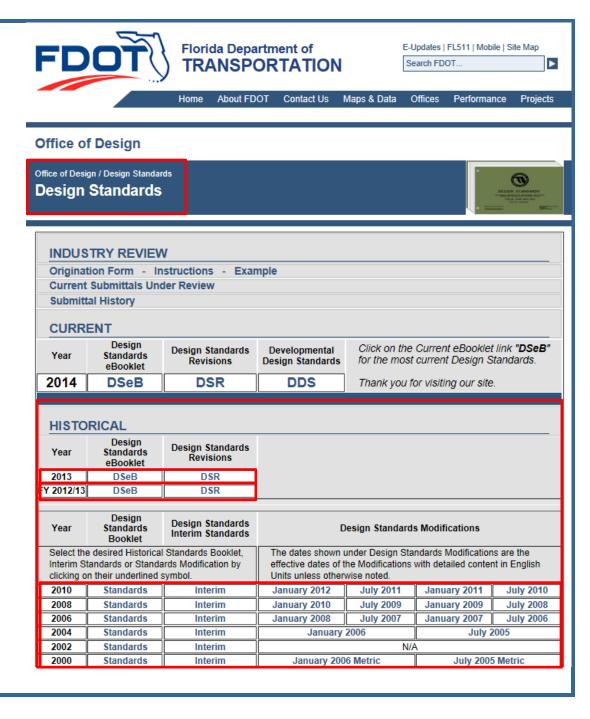
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HISTORICAL eBooklet 2013

eBooklet Fiscal Year 2012/2013

eBooklet 2010 through 2000







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Topics

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

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

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

Specifications - Estimates Structures Design Office Traffic Engineering Office Transit Design Handbook Traffic Engineering Manual Utilities Office

Roadway Standards Section Leader

| Maintenance of Traffic program (MOT) |
|--|
| Traffic Standards, Lighting, Signalization |
| Design Standards Publication - Virtual Implementation - Computer Aided Drafting and Design (CADD) Support |
| Design Standards Engineer |
| Computer Aided Drafting and Design (CADD)/Engineering Applications Support-Web Author-Design Standards Technician |
| |

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2014 Update Training

The End

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contact me

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Design Standards Specialist

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