



## Florida Department of Transportation

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### Mail Station 32

#### ROADWAY DESIGN BULLETIN 08-09

**DATE:** July 14, 2008

**TO:** District Design Engineers, Plans Preparation Manual Holders

**FROM:** David C. O'Hagan, PE, State Roadway Design Engineer

**COPIES:** Lora Hollingsworth, Brian Blanchard, Tim Lattner, Robert Robertson,  
Duane Brautigam, Lap Hoang, Chris Richter, FHWA

**SUBJECT:** Design Standards Modifications January 1, 2009

The Design Standards Modifications to the 2008 Design Standards booklet, Effective Date January 1, 2009, have been posted on the Roadway Design Office web site.

The Design Standards Modifications includes a listing of all Interim Design Standards issued since publication of the applicable booklet, plus all changes and corrections to notes and text within the booklet that do not warrant issuing Interim Indexes.

All plans beginning with the January 2009 letting shall include a reference to Design Standards Modifications Effective Date January 1, 2009, on the lower left corner of the Key Sheet below the Governing Specifications and Standards note, and above the Revisions area. For more information please see the Plans Preparation Manual, Volume II, Section 3.8 and Exhibit KS-1.

All Interim Indexes listed in the Design Standards Modifications publication will be applicable unless otherwise indicated in the contract documents. The January 1, 2009, Design Standards Modifications includes Interim Indexes as follows:

Interim Index No. 230 (Sheet 1 of 2), DITCH BOTTOM INLET TYPE A – Dated 07/01/08: Changed 4Z15.9 shape to built up section (3.5x3x1/2 L + 1/2x3 Bar) for grating.

Interim Index No. 304 (Sheet 6 of 6), PUBLIC SIDEWALK CURB RAMPS – Dated 4/30/08: Added alternate location of detectable warnings on linear ramps. Revised notes to clarify orientation of domes. (See Construction Memorandum 16-08 for implementation on construction projects prior to January 2009)

Interim Index No. 501 (Sheets 3-9 of 9), GEOSYNTHETIC REINFORCED SOILS" - Dated 07/01/08: Changed the REQUIRED TEST METHOD for Burst Strength, Soil-Geosynthetic Friction, Creep Reduction Factor & Joint Overlap to ASTM D 6706; Updated values for COMTRAC 70.70, TENAX MS 220 & TENAX MS 330.

Interim Index No. 870 (Sheet 5 of 5), ALUMINUM PIPE GUIDERAIL - 07/01/08: Added DETAIL "F" (OPTIONAL SHIMMING DETAIL FOR CROSS SLOPE CORRECTION).

Interim Index No. 880 (Sheet 5 of 5), STEEL PIPE GUIDERAIL - 07/01/08: Added DETAIL "F" (OPTIONAL SHIMMING DETAIL FOR CROSS SLOPE CORRECTION).

Interim Index No. 5100 (Sheet 2 of 2), RETAINING WALL-CAST IN PLACE - Dated 07-01-08: Changed to plastic sleeve expansion joint.

Interim Index No. 5200 (Sheet 1 of 1), PRECAST SOUND BARRIERS - GENERAL NOTES - Dated 07-01-08: Post caps added to note c.1.b; Changed note K.2 to allow 8 ft height panels.

Interim Index No. 5201 (Sheet 1 of 1), PRECAST SOUND BARRIERS - TEXTURE OPTIONS - Dated 07-01-08: Texture Type "I" (Cut Coral Block) added.

Interim Index No. 5202 (Sheet 1 of 4), PRECAST SOUND BARRIERS - FLUSH PANEL OPTION - Dated 07-01-08: Added precast post cap; Changed clearance tolerance on stepped panel and Neoprene Pad options.

Interim Index No. 5203 (Sheets 1-5 of 5), PRECAST SOUND BARRIERS - RECESSED PANEL OPTION - Dated 07-01-08: Sheet 1 - Added precast post cap; Changed clearance tolerance on stepped panel and Neoprene Pad options; Sheet 3 - Added bar marks to reinforcing steel; Sheet 4 - Added new sheet for 45° corner post details.

Interim Index No. 5205 (Sheets 2 & 7 of 7), PRECAST SOUND BARRIERS - PILE AND POST REINFORCING STEEL - Dated 07-01-08: Added tolerance between Top of Precast Collar and Auger Cast Pile; Changed "Composite Bearing Pads" to "Fiber Reinforced Bearing Pads".

Interim Index No. 5206 (Sheet 1 of 1), PRECAST SOUND BARRIERS - PILE DEPTH AND REINFORCING SUMMARY - Dated 07-01-08: Added "POST LENGTH WITH CAP" column, BARS D, 5P thru P8 to table and bar bending details for corner posts.

Interim Index No. 5207 (Sheet 1 of 1), PRECAST SOUND BARRIERS - PRECAST POST CAP - Dated 07/01/08: New Index. See updates to Data Table.

Interim Index No. 5250 (Sheets 1-14 of 14), PRECAST PERIMETER WALL - Dated 07-01-08: This new Index provides details and designs for Precast Perimeter Walls (screening walls).

Interim Index No. 11200 (Sheets 1-2 of 2), MULTI-COLUMN GROUND SIGN – Dated 07/01/08: Revised and rearranged notes (Sheet 1); Deleted old sheet 2 of 3.

Interim Index No. 11300 (Sheet 1 of 1), OVERHEAD SIGN STRUCTURES – Dated 07/-1/08: U-Bolt material spec (A325) added to Typical Detail of Sign & Truss Connection.

Interim Index No. 11310 (Sheets 1-2 of 5), CANTILEVER SIGN STRUCTURE - Dated 07-01-08: Note 4e deleted Palnut(Sheet 1). Changed foundation standoff distance and changed drilled shaft detail(Sheet 2).

Interim Index No. 11320 (Sheets 1, 2 & 5 of 5), SPAN SIGN STRUCTURE - Dated 07-01-08: Note 4e deleted Palnut(Sheet 1). Changed foundation standoff distance(Sheet 2). Changed drilled shaft detail(Sheet 5).

Interim Index No. 11860 (Sheets 3-4 of 8), SINGLE COLUMN GROUND SIGNS - Dated 07-01-08: Changed soil plate detail (Sheet 3). Modified U-bolt size and sign panel edge distance (Sheet 4).

Interim Index No. 17328 (Sheets 1-2 of 2), TYPICAL SIGNING FOR TRUCK WEIGH AND INSPECTION STATIONS – Dated 07/01/08: Weigh Station and combination Weigh Station and Inspection Station signing details separated.

Interim Index No. 17346 (Sheets 15-16 of 16), SPECIAL MARKING AREAS – Dated 07/01/08: New sheets added detailing Audible and Vibratory Markings.

Interim Index No. 17502 (Sheets 3 & 5 of 7), HIGHMAST LIGHTING - Dated 07-01-08: Changed Notes 11 & 12 (Sheet 3). Added Section E-E detail and bottom baseplate washer (Sheet 5).

Interim Index No. 17515 (Sheet 1 of 3), STANDARD ROADWAY ALUMINUM LIGHTING - Dated 07-01-08: Modified QPL criteria.

Interim Index No. 17600 (Sheet 2 of 3), MOTORIST AID CALL BOX – Dated 07/01/08: Added detail for pole foundation to be used only behind guardrail.

Interim Index No. 17723 (Sheets 2-3 of 3), STEEL STRAIN POLE - Dated 07-01-08: Changed foundation standoff distance and added bottom baseplate washer (Sheet 2). Added cable clamp thickness and changed weld criteria (Sheet 3).

Interim Index No. 17725 (Sheets 1-2 of 2), CONCRETE POLES – Dated 07/01/08: Notes and pole detail titles revised (Sheet 1), Notes revised and rearranged (Sheet 2)

Interim Index No. 17727 (Sheets 1-2 of 2), SIGNAL CABLE & SPAN WIRE INSTALLATION DETAILS – Dated 07/01/08: Schedule 40 aluminum pipe (T6061) added as alternate to stainless steel pipe on assembly details and signal head notes.

Interim Index No. 17743 (Sheets 2-3 of 3), STANDARD MAST ARM D-E-F ASSEMBLIES - Dated 07-01-08: Updated assembly dimensions (Sheets 2-3).

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Interim Index No. 17745 (Sheets 1-2 of 5), MAST ARM ASSEMBLIES – Dated 07/01/08: Revised Note 17 (Sheet 1), Section AA, Section DD and Foundation Plan details revised (Sheet 2).

Interim Index No. 20110 (Sheet 1 of 1), TYPICAL AASHTO AND BULB-T BEAM DETAILS AND NOTES - Dated 07-01-08: Added Bars J Detail for build-ups  $\geq 2 \frac{1}{2}$ ".

Interim Index No. 20210 (Sheet 2 of 2), TYPICAL FLORIDA U BEAM DETAILS AND NOTES - Dated 07-01-08: Added Type Q epoxy to Note 9, and Bars J details & Note 12 for build-ups  $\geq 2 \frac{1}{2}$ ".

The design Standards, Interim Indexes and Design Standards Modifications can be accessed at the following web site:

<http://www.dot.state.fl.us/rddesign/DesignStandards/standards.htm>

If you have any questions please contact this office.