



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE C. KOPELOUSOS
SECRETARY

Mail Station 32

ROADWAY DESIGN BULLETIN 09-05

DATE: July 9, 2009

TO: District Design Engineers, Plans Preparation Manual Holders

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

A handwritten signature in blue ink, appearing to read "David C. O'Hagan".

COPIES: Lora Hollingsworth, David Sadler, Tim Lattner, Robert Robertson,
Duane Brautigam, Mark Wilson, Chris Richter, FHWA

SUBJECT: Design Standards Modifications January 1, 2010

The Design Standards Modifications to the 2008 Design Standards booklet, Effective Date January 1, 2010, 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 2010 letting shall include a reference to Design Standards Modifications Effective Date January 1, 2010, 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, 2010, Design Standards Modifications includes Interim Indexes as follows:

Interim Index No. 220 (Sheet 1 of 3), GUTTER INLET TYPE S – Dated 07/01/09: Clarified recess depth at top of inlet for steel grate.

Interim Index No. 221 (Sheet 1 of 2), GUTTER INLET TYPE V – Dated 07/01/09: Clarified recess depth at top of inlet for steel grate.

Interim Index No. 291 (Sheet 3 of 5), SUPPLEMENTAL DETAILS FOR PRECAST CONCRETE BOX CULVERTS, Dated 07/01/09: Added "or Joint Sealant" to the 1/2" horizontal joint detail in SECTION B-B.

Interim Index No. 402 (Sheet 24 of 24), GUARDRAIL TRANSITIONS AND CONNECTIONS FOR EXISTING BRIDGES – Dated 07/01/09: Added note for bridge name plate as note 2.

Interim Index No. 501 (Sheets 5-7 of 9), GEOSYNTHETIC REINFORCED SOILS - Dated 07/01/09: Corrected "MARAfi" to "MIRAfi" (Sheet 5); Added Application Usage 2 for SYNTEN SF 11 & SF 12 (Sheet 6); Added FORNIT 30 (Sheet 7).

Interim Index No. 600 (Sheet 6 of 12), GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES – Dated 07/01/09: Multiple revisions to notes, details and table.

Interim Index No. 655 (Sheets 1-3 of 3), TRAFFIC PACING – Dated 07/01/05: New Design Standard.

Interim Index No. 820 (Sheet 1 of 1), PEDESTRIAN/BICYCLE RAILING, Dated 07/01/09: Changed post offset dimensions to joints.

Interim Index No. 821 (Sheet 1 of 1), ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING FOR TRAFFIC RAILING (32" F SHAPE), Dated 07/01/09: Changed post offset dimensions to joints.

Interim Index No. 860 (Sheet 4 of 5), ALUMINUM PEDESTRIAN/BICYCLE PICKET RAILING" – Dated 07/01/09: Changed weld sizes of pickets, handrail, bottom rail and base plate.

Interim Index No. 5200 (Sheet 1 of 1), PRECAST SOUND BARRIERS - GENERAL NOTES - Dated 07/01/09: Second sentence in Note K.4 is deleted.

Interim Index No. 5205 (Sheets 1, 2, & 3 of 7), PRECAST SOUND BARRIERS - PILE AND POST REINFORCING STEEL - Dated 07/01/09: Sheets redrawn and Sections renamed; Changed side cover in auger cast pile to 4" for Option A (Sheets 1 & 2). Corrected Bar C2 length in Option B (Sheet 3).

Interim Index No. 5206 (Sheet 1 of 1), PRECAST SOUND BARRIERS - PILE DEPTH AND REINFORCING SUMMARY - Dated 07/01/09: Changed radius of Bar P3 to 1'-2" in the BAR BENDING DETAILS.

Interim Index No. 5300 (Sheets 7 & 13 of 19), PERMANENT RETAINING WALL SYSTEMS – Dated 07/01/09: Changed 1" Continuous Neoprene Strip, to 1" Preformed Joint Filler.

Interim Index No. 11200 (Sheet 1-2 of 2), MULTI-COLUMN GROUND SIGN – Dated 07/01/09: Galvanized note changed: brass shim note added (Sheet 1); configuration revised and S3X5.7 post added (Sheet 2)

Interim Index No. 11300 (Sheet 1 of 1), OVERHEAD SIGN STRUCTURES – Dated 07/01/09: Modified U-Bolt material spec.

Interim Index No. 11860 (Sheets 1, 2, & 3 of 8), SINGLE COLUMN GROUND SIGNS – Dated 07/01/09: Modified "ALUMINUM COLUMN (POST) SELECTION TABLE" in Example (Sheet 1). Changed maximum limits of sign cluster area and width in NOTE (Sheet 2). Modified "ALUMINUM COLUMN (POST) SELECTION TABLES" (Sheet 3).

Interim Index No. 13417 (Sheet 1 of 1), MOUNTING EXIT NUMBERING PANELS TO HIGHWAY SIGNS – Dated 07/01/09: Gauge and dimension lines removed from Section AA.

Interim Index No. 17344 (Sheets 2-3 of 6), SCHOOL SIGNS AND MARKINGS – Dated 07/01/09: Cross walk markings revised.

Interim Index No. 17346 (Sheet 10 of 14), SPECIAL MARKING AREAS – Dated 07/01/09: Sign text changed in Scheme 3, R1-5bL.

Interim Index No. 17354 (Sheet 1 of 1), TOURIST ORIENTED DIRECTIONAL SIGNS – Dated 07/01/09: New Design Standard.

Interim Index No. 17727 (Sheets 1-2 of 2), SIGNAL CABLE & SPAN WIRE INSTALLATION DETAILS – Dated 07/01/09: Vertical clearance note revised.

Interim Index No. 18110 (Sheets 1-2 of 2), CAMERA MOUNTING DETAILS – Dated 07/01/09: Revised notes 2 and 3; added notes 7, 8 and 9; moved conduit to encase CCTV Lowering Cable (Sheet 1); General Notes, note 2 replaced and note 6 revised (Sheet 2).

Interim Index No. 18111 (Sheets 1-2 of 2), STEEL CCTV POLE – Dated 07/01/09: Sheets were completely revised.

Interim Index No. 18113 (Sheets 1-2 of 2), CONCRETE CCTV POLE – Dated 07/01/09: Sheets were completely revised.

Interim Index No. 20010 (Sheets 1-2 of 2), TYPICAL FLORIDA-I BEAM DETAILS AND NOTES – Dated 07/01/09: New Design Standard.

Interim Index No. 20036 (Sheets 1-2 of 2), FLORIDA-I 36 BEAM - STANDARD DETAILS – Dated 07/01/09: New Design Standard.

Interim Index No. 20045 (Sheets 1-2 of 2), FLORIDA-I 45 BEAM - STANDARD DETAILS – Dated 07/01/09: New Design Standard.

Interim Index No. 20054 (Sheets 1-2 of 2), FLORIDA-I 54 BEAM - STANDARD DETAILS – Dated 07/01/09: New Design Standard.

Interim Index No. 20063 (Sheets 1-2 of 2), FLORIDA-I 63 BEAM - STANDARD DETAILS – Dated 07/01/09: New Design Standard.

Interim Index No. 20072 (Sheets 1-2 of 2), FLORIDA-I 72 BEAM - STANDARD DETAILS – Dated 07/01/09: New Design Standard.

Interim Index No 20078 (Sheets 1-2 of 2), FLORIDA-I 78 BEAM - STANDARD DETAILS – Dated 07/01/09: New Design Standard.

Interim Index No. 20199 (Sheet 1 of 1), BUILD-UP & DEFLECTION DATA FOR AASHTO, BULB-T BEAMS AND FLORIDA-I BEAMS – Dated 07/01/09: Added Florida-I Beams and changed the 3rd sentence in BEAM CAMBER AND BUILD-UP NOTES. Data Table Updated (See FDOT2008 MR1).

Interim Index No. 20350 (Sheets 1-3 of 3), PRESTRESSED SLAB UNITS DETAILS AND NOTES - Dated 07/01/09: Major revisions. Data Tables Updated (See FDOT2008 MR1).

Interim Index No. 20353 (Sheet 1 of 1), 12" CUSTOM WIDTH PRESTRESSED SLAB UNIT - STANDARD DETAILS - Dated 07/01/09: Added Bars 4D3 & 5Y2.

Interim Index No. 20354 (Sheet 1 of 1), 12"x48" PRESTRESSED SLAB UNIT - STANDARD DETAILS - Dated 07/01/09: Added Bars 4D3 and Bars 5Y2.

Interim Index No. 20355 (Sheet 1 of 1), 12"x60" PRESTRESSED SLAB UNIT - STANDARD DETAILS - Dated 07/01/09: Added Bars 4D3 and Bars 6Y2.

Interim Index No. 20363 (Sheet 1 of 1), 15" CUSTOM WIDTH PRESTRESSED SLAB UNIT - STANDARD DETAILS - Dated 07/01/09: Added Bars 4D3 and Bars 5Y2.

Interim Index No. 20364 (Sheet 1 of 1), 15"x48" PRESTRESSED SLAB UNIT - STANDARD DETAILS - Dated 07/01/09: Added Bars 4D3 and Bars 5Y2.

Interim Index No. 20365 (Sheet 1 of 1), 15"x60" PRESTRESSED SLAB UNIT - STANDARD DETAILS - Dated 07/01/09: Added Bars 4D3 and Bars 6Y2.

Interim Index No 20399 (Sheet 1 of 1), OVERLAY & DEFLECTION DATA FOR PRESTRESSED SLAB UNITS - Dated 07/01/09: Changed Build-up to Overlay; KEYWAY DETAIL moved to Index 20350. Data Table Updated (See FDOT2008 MR1).

Interim Index No. 20510 (Sheet 1 of 1), COMPOSITE ELASTOMERIC BEARING PADS - PRESTRESSED FLORIDA-I BEAMS – Dated 07/01/09: New Design Standard.

Interim Index No. 20511 (Sheet 1-2 of 2), BEARING PLATE DETAILS - PRESTRESSED FLORIDA-I BEAMS – Dated 07/01/09: New Design Standard.

July 9, 2009
Design Bulletin 09-05
Page 5 of 5

Interim Index No. 20602 (Sheet 1 of 1), EDC INSTRUMENTATION FOR SQUARE PRESTRESSED CONCRETE PILES, Dated 07/01/09: Changed note.

Interim Index No. 21100 (Sheet 2 of 3), STRIP SEAL EXPANSION JOINT – Dated 07/01/09: Changed "Direction of Movement" angle measurement and corrected skew angle details in MOVEMENT SCHEMATIC (Sheet 2 of 3); Data Table Updated (See FDOT2008 MR1).

Interim Index No. 21240 (Sheet 1 of 2), MAINTENANCE LIGHTING FOR BOX GIRDERS - Date 07/01/09: Changed pay item Note 18 and INSTRUCTIONS TO DESIGNER Note 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.shtm>

If you have any questions please contact this office.