



Florida Department of Transportation

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ROADWAY DESIGN BULLETIN 10-08

DATE: July 02, 2010

TO: District Design Engineers, Plans Preparation Manual Holders

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

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

SUBJECT: Design Standards Modifications January 1, 2011

The Design Standards Modifications to the 2010 Design Standards booklet, Effective Date January 1, 2011, 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 2011 letting shall include a reference to Design Standards Modifications Effective Date January 1, 2011, 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, 2011, Design Standards Modifications includes Interim Indexes as follows:

Interim Index No. 002 (Sheet 2 of 3), STANDARD SYMBOLS-Dated 7/1/10: Rotated linetypes and changed "Silt Fence" to "Sediment Barrier".

Interim Index No. 308 (Sheets 1-2 of 2), CONCRETE SLAB REPLACEMENT – Dated 7/1/10: (Sheet 1) From FIGURE 10.4-PARTIAL SLAB FULL DEPTH REPLACEMENT, delete leader note: "Saw Cut Existing Tie Bars"; (Sheet 2) Under JOINT DEFICIENCIES, corrected descriptions for Spall Nonwheel Path and Spall Wheel Path.

Interim Index No. 410 (Sheets 3 & 5 of 25), CONCRETE BARRIER WALL-Dated 7/1/10: (Sheet 3) F-SHAPE MEDIAN BARRIER WHEN Y IS LESS THAN OR EQUAL TO 6 INCHES DETAIL, changed detail for F-Shape Median Barrier where Y is less than or equal to 6 inches; (Sheet 5) Deleted Section CC-DD, along with the Plan and Elevation views for the Independent Barrier and Sign Pedestal.

Interim Index No. 414 (Sheet 1 of 15), TYPE K TEMPORARY CONCRETE BARRIER SYSTEM-Dated 07/01/10: Changed specification reference from "6-8" to "105" and Added "or MASH 2009 Test Level 3 criteria" to ALTERNATE DESIGN note.

Interim Index No. 420 (Sheet 1 of 3), TRAFFIC RAILING-(32" F SHAPE)-Dated 07/01/10: Changed MARKERS and JOINTS notes.

Interim Index No. 421 (Sheet 1 of 3), TRAFFIC RAILING-(MEDIAN 32" F SHAPE)-Dated 07/01/10: Changed JOINTS note.

Interim Index No. 422 (Sheet 1 of 3), TRAFFIC RAILING-(42" VERTICAL SHAPE)-Dated 07/01/10: Changed MARKERS and JOINTS note.

Interim Index No. 423 (Sheet 1 of 3), TRAFFIC RAILING-(32" VERTICAL SHAPE)-Dated 07/01/10: Changed MARKERS and JOINTS notes.

Interim Index No. 424 (Sheet 1 of 7), TRAFFIC RAILING-(CORRAL SHAPE)-Dated 07/01/10: Changed MARKERS note.

Interim Index No. 425 (Sheet 1 of 3), TRAFFIC RAILING-(42" F SHAPE)-Dated 07/01/10: Changed MARKERS and JOINTS notes.

Interim Index No. 470 (Sheet 1 of 3), TRAFFIC RAILING-(THREE-BEAM RETROFIT) GENERAL NOTES & DETAILS-Dated 07/01/10: Changed ELEVATION MARKERS note.

Interim Index No. 480 (Sheet 1 of 2), TRAFFIC RAILING-(VERTICAL FACE RETROFIT) GENERAL NOTES & DETAILS-Dated 07/01/10: Changed ELEVATION MARKERS note.

Interim Index No. 481 (Sheet 1 of 3), TRAFFIC RAILING-(VERTICAL FACE RETROFIT) NARROW CURB-Dated 07/01/10: Changed * and ** notes.

Interim Index No. 482 (Sheet 1 of 4), TRAFFIC RAILING-(VERTICAL FACE RETROFIT) WIDE CURB-Dated 07/01/10: Changed * and ** notes.

Interim Index No. 483 (Sheet 1 of 3), TRAFFIC RAILING-(VERTICAL FACE RETROFIT) INTERMEDIATE CURB-Dated 07/01/10: Changed * and ** notes.

Interim Index No. 546 (Sheets 1, 2, 5 & 6 of 6), SIGHT DISTANCE AT INTERSECTIONS-Dated 7/1/10: (Sheet 1) Revised Special Areas Limited to Ground Cover detail, and updated General

Notes # 1 & 5; (Sheets 2, 5 & 6) Removed requirement that the median adjacent to left turn lane is an "Area limited to ground cover".

Interim Index No. 603 (Sheet 2 of 2), TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY-Dated 7/1/10: Added new notes #1 and 5.

Interim Index No. 623 (Sheet 1 of 1), MULTILANE, WORK WITHIN THE TRAVEL WAY DOUBLE LANE CLOSURE-Dated 7/1/10: New Design Standard.

Interim Index No. 628 (Sheet 1 of 1), TWO WAY LEFT TURN CLOSURE-Dated 7/1/10: Changed Detail so that there is nothing within the Buffer zone.

Interim Index No. 820 (Sheet 1 of 1), PEDESTRIAN/BICYCLE BULLET RAILING-Dated 07/01/10: Added "BULLET" to title and PAYMENT note.

Interim Index No. 821 (Sheet 1 of 1), ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING FOR TRAFFIC RAILING-(32" F SHAPE)-Dated 07/01/10: Added tapered end detail.

Interim Index No. 822 (Sheets 1-3 of 3), ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING DETAILS-Dated 07/01/10: (Sheet 2) Changed RAIL INSTALLATION NOTE; Added Sheet 3 with Tapered End Details.

Interim Index No. 825 (Sheets 1-2 of 2), CONCRETE PEDESTRIAN/BICYCLE 42" RAILING-Dated 07/01/10: New Design Standard.

Interim Index No. 826 (Sheets 1-2 of 2), CONCRETE PEDESTRIAN/BICYCLE 54" RAILING-Dated 07/01/10: New Design Standard.

Interim Index No. 850 (Sheets 1-5 of 5), STEEL PEDESTRIAN/BICYCLE PICKET RAILING-Dated 07/01/10: (Sheet 1) Deleted Design Criteria; (Sheets 2, 3 & 5) Deleted minimum extension of handrail at base of steps and changed 2'-10" dimension to mid-height of handrail; (Sheet 4) Added Type B connection option.

Interim Index No. 860 (Sheets 1-5 of 5), ALUMINUM PEDESTRIAN/BICYCLE PICKET RAILING-Dated 07/01/10: (Sheet 1) Deleted Design Criteria; (Sheets 2, 3 & 5) Deleted minimum extension of handrail at base of steps and changed 2'-10" dimension to mid-height of handrail; (Sheet 4) Added Option Expansion Joint Detail.

Interim Index No. 870 (Sheets 1-5 of 5), ALUMINUM PIPE GUIDERAIL-Dated 07/01/10: (Sheet 1) Deleted Design Criteria; (Sheet 3) Deleted minimum extension of handrail at base of steps; (Sheets 2, 3 & 5) Changed 2'-10" dimension to mid-height of handrail.

Interim Index No. 880 (Sheets 1-5 of 5), STEEL PIPE GUIDERAIL-Dated 07/01/10: (Sheet 1) Deleted Design Criteria; (Sheet 3) Deleted minimum extension of handrail at base of steps; (Sheets 2, 3 & 5) Changed 2'-10" dimension to mid-height of handrail.

Interim Index No. 5200 (Sheet 1 of 1), PRECAST SOUND BARRIERS - GENERAL NOTES - Dated 07/01/10: Changed Note B.

Interim Index No. 5202 (Sheets 1-6 of 6), PRECAST SOUND BARRIERS-FLUSH PANEL OPTION- Dated 01/01/10: Added option for texture surface on back of panels.

Interim Index No. 5206 (Sheets 1-2 of 2), PRECAST SOUND BARRIERS-PILE DEPTH AND REINFORCING SUMMARY-Dated 07/01/10: Added Sheet 2 for N=4 to 10 (very loose soils).

Interim Index No. 5210 (Sheet 1 of 5), TRAFFIC RAILING/SOUND BARRIER (8'-0")-Dated 07/01/10: Deleted INSTRUCTIONS TO DESIGNER; Changed spacing of V-Grooves and Intermediate Open Joints.

Interim Index No. 11200 (Sheets 1-2 of 2), MULTI-COLUMN GROUND SIGN-Dated 7/1/10: (Sheet 1) Welding note, Base Connection note, Fuse Plate note and Shop Drawings note were revised. Tolerances note was deleted; (Sheet 2) Weld symbol revised. Detail B revised. Brass Shims added to Shim Detail.

Interim Index No. 11310 (Sheets 1-3 of 5), CANTILEVER SIGN STRUCTURE-Dated 07/01/10: (Sheet 1) Deleted foundation payment Note 13; (Sheet 2) Changed anchor bolt extension length, seal weld note, plate washer size, top of foundation offset, and gusset plate clip; (Sheet 3) Changed seal weld note.

Interim Index No. 11320 (Sheets 1, 2 & 5 of 5), SPAN SIGN STRUCTURE-Dated 07/01/10: (Sheet 1) Deleted foundation payment Note 13; (Sheet 2) Changed anchor bolt extension length, seal weld note, plate washer size, and gusset plate clip; (Sheet 5) Changed anchor bolt extension length and top of foundation offset.

Interim Index No. 11860 (Sheets 1 & 5 of 8), SINGLE COLUMN GROUND SIGNS-Dated 07/01/10: (Sheet 1) Modified Note 11; (Sheet 5) Added 8" column size to slip base details.

Interim Index No. 11870 (Sheets 1-2 of 2), SINGLE POST BRIDGE MOUNTED SIGNS-Dated 07/01/10: New Design Standard.

Interim Index No. 17345 (Sheets 2 & 3 of 4), INTERCHANGE MARKINGS-Dated 7/1/10: (Sheet 2) Marking width changed; (Sheet 3) Revised Acceleration and Deceleration Lanes with 12" Solid White Lines, and 6" or 12" White 3'-9' Skip Line to Comply With The 2009 M.U.T.C.D.

Interim Index No. 17346 (Sheet 7 of 14), SPECIAL MARKING AREAS-Dated 7/1/10: Detail A, changed layout distance from beginning of numbers to the beginning of the taper from 117' - 8" to 120' and removed the 50' dimension following the first letter to the beginning of the taper.

Interim Index No. 17355 (Sheet 9 of 11), SPECIAL SIGN DETAILS-Dated 7/1/10: FTP - 84 - 09 (DRAW BRIDGE AHEAD) Sign added to sheet.

Interim Index No. 17500 (Sheets 1-3 of 3), CONVENTIONAL LIGHTING-Dated 7/1/10: (Sheet 1) Removed Grounding Conduit Between Pull Box and Pole. Ran Ground Wire in Conduit with Hot and Neutral Wires. (Sheets 2 & 3) Reinforcing removed from slab, notes revised, new dimensions added to slab dimensions.

Interim Index No. 17502 (Sheets 2, 3, 5 & 7 of 7), HIGHMAST LIGHTING-Dated 7/1/10: (Sheet 2), added HIGHMAST POLE WIRING DIAGRAM detail to sheet; (Sheet 3) Changed anchor bolt washer Note 1; (Sheet 5) Changed longitudinal seam weld note and anchor bolt plate washer size; (Sheet 7) Reinforcing removed from slab, notes revised, new dimensions were added to slab Dimensions.

Interim Index No. 17505 (Sheet 1 of 2), EXTERNAL LIGHTING FOR SIGNS-Dated 7/1/10: Revised Notes and Detail in lower left PLAN OVERHEAD POWER SUPPLY.

Interim Index No. 17600 (Sheet 1 of 3), MOTORIST AID CALL BOX-Dated 7/1/10: Type II ** removed from Call Box/Mile Marker note.

Interim Index No. 17700 (Sheets 1 of 1), PULL, SPLICE AND JUNCTION BOX-Dated 7/1/10: Pullboxes for signalization and ITS projects are being consolidated in this new index. Index 18204 will be superseded by this index. New Design Standard.

Interim Index No. 17723 (Sheet 1-2 of 3), STEEL STRAIN POLE-Dated 07/01/10: (Sheet 1) Added “(current edition)” to Note 1 reference for Structures Manual and deleted LTS-5 edition number. Changed anchor bolt washer Note 4. Deleted anchor bolt hole diameter note; (Sheet 2) Revised plate washer size.

Interim Index No. 17725 (Sheet 2 of 2), CONCRETE POLES-Dated 07/01/10: Changed Note 1 reference to Structures Manual to current edition and deleted LTS-5 edition number.

Interim Index No. 17745 (Sheets 1, 2 & 5 of 5), MAST ARM ASSEMBLIES – Dated 7/1/10: (Sheet 1) Modified Notes 8 and 15. Modified ‘UB’ dimension; (Sheet 2) Modified anchor bolt standoff details. Modified plate washer detail; (Sheet 5) Revised J hook detail, removed grout pad, changed cap bolt size and revised ‘LL’ definition.

Interim Index No. 18300 (Sheets 1-10 of 10), DMS CABINET AND SIGN WIRING AND BLOCK DIAGRAM-Dated 7/1/10: Index renamed to DYNAMIC MESSAGE SIGN WALK-IN (Sheet 1) Revised and added sheet from Index 18302 as sheet 1; (Sheet 2) Revised and added sheet from Index 18303 sheet 2 as sheet 2; (Sheet 3) Added sheet from Index 18303 sheet 1 as sheet 3, revised conduit and cabling details and conduit sizes; (Sheet 4) New Sheet; (Sheet 5) New Sheet; (Sheet 6) Added sheet from Index 18305 sheet 2 as sheet 6, revised notes and details; (Sheet 7) Added sheet from Index 18305 sheet 1 as sheet 7, revised notes and details; (Sheet 8) Sheet moved from sheet 1 to sheet 8, revised notes and details; (Sheet 9) Added sheet from Index 18301 sheet 1 as sheet 9, revised notes and details; (Sheet 10) New Sheet.

Interim Index No. 20010 (Sheets 1-2 of 2), TYPICAL FLORIDA-I BEAM DETAILS AND NOTES-Dated 07/01/10: (Sheet 1) Deleted Bars 4L; Changed Notes 3 & 4; Added Epoxy Coating Note 5, and option to lengthen bottom leg of Bars 3D, 5K & 5Z in Notes 13 & 14; (Sheet 2) Added RECESSED STRAND GROMMET DETAIL.

Interim Index No. 20036 (Sheets 1-2 of 2), FLORIDA-I 36 BEAM-STANDARD DETAILS-Dated 07/01/10: (Sheet 1) Changed NOTE NUMBERS for Strand N and Embedded Bearing Plate A to Index 20512; Added epoxy coating to end of beam; (Sheets 1 & 2) Changed interior W6.4 wire to “Optional” for WWR Pieces M; Deleted Bars 4L.

Interim Index No. 20045 (Sheets 1-2 of 2), FLORIDA-I 45 BEAM-STANDARD DETAILS-Dated 07/01/10: (Sheet 1) Changed NOTE NUMBERS for Strand N and Embedded Bearing Plate A to Index 20512; Added epoxy coating to end of beam; (Sheets 1 & 2) Changed interior W6.4 wire to “Optional” for WWR Pieces M; Deleted Bars 4L.

Interim Index No. 20054 (Sheets 1-2 of 2), FLORIDA-I 54 BEAM-STANDARD DETAILS-Dated 07/01/10: (Sheet 1) Changed NOTE NUMBERS for Strand N and Embedded Bearing Plate A to Index 20512; Added epoxy coating to end of beam; (Sheets 1 & 2) Changed interior W6.4 wire to “Optional” for WWR Pieces M; Deleted Bars 4L.

Interim Index No. 20063 (Sheets 1-2 of 2), FLORIDA-I 63 BEAM-STANDARD DETAILS-Dated 07/01/10: (Sheet 1) Changed NOTE NUMBERS for Strand N and Embedded Bearing Plate A to Index 20512; Added epoxy coating to end of beam; (Sheets 1 & 2) Changed interior W6.4 wire to “Optional” for WWR Pieces M; Deleted Bars 4L.

Interim Index No. 20072 (Sheets 1-2 of 2), FLORIDA-I 72 BEAM-STANDARD DETAILS – Dated 07/01/10: (Sheet 1) Changed label in BENDING DIAGRAMS to from “Bars 5A” to “Bars 6A”, NOTE NUMBERS for Strand N, and Embedded Bearing Plate A to Index 20512; Added epoxy coating to end of beam; (Sheets 1 & 2) Changed interior W6.4 wire to “Optional” for WWR Pieces M; Deleted Bars 4L.

Interim Index No. 20078 (Sheets 1-2 of 2), FLORIDA-I 78 BEAM-STANDARD DETAILS - Dated 07/01/10: (Sheet 1) Changed label in BENDING DIAGRAMS to from “Bars 5A” to “Bars 6A”, NOTE NUMBERS for Strand N, and Embedded Bearing Plate A to Index 20512; Added epoxy coating to end of beam; (Sheets 1 & 2) Changed interior W6.4 wire to “Optional” for WWR Pieces M; Deleted Bars 4L.

Interim Index No. 20084 (Sheets 1-2 of 2), FLORIDA-I 84 BEAM-STANDARD DETAILS - Dated 07/01/10: New Design Standard.

Interim Index No. 20096 (Sheets 1-2 of 2), FLORIDA-I 96 BEAM-STANDARD DETAILS - Dated 07/01/10: New Design Standard.

Interim Index No. 20350 (Sheet 3 of 3), PRESTRESSED SLAB UNITS DETAILS AND NOTES-Dated 07/01/10: Deck overlay clarified as “Fiber Reinforced Concrete”.

Interim Index No. 20510 (Sheet 1 of 1), COMPOSITE ELASTOMERIC BEARING PADS-PRESTRESSED FLORIDA-I BEAMS – Dated 07/01/10: Added offsets & references to Index No. 20512; deleted PARTIAL SIDE ELEVATION detail; changed dimension ‘C’ for Type K Pad.

Interim Index No. 20512 (Sheets 1-2 of 2), BEARING PLATE DETAILS-PRESTRESSED FLORIDA-I BEAMS-Dated 07/01/10: New Design Standard with parallelogram shaped bearing plates for use with beams without end diaphragms.

Interim Index No. 20600 (Sheet 1 of 1), NOTES AND DETAILS FOR SQUARE PRESTRESSED CONCRETE PILES-Dated 07/01/10: Deleted Stress Relieved Strand (SR) option.

Interim Index No. 20612 (Sheet 1 of 1), 12” SQUARE PRESTRESSED CONCRETE PILE-Dated 07/01/10: Changed ALTERNATE STRAND PATTERNS.

Interim Index No. 20614 (Sheet 1 of 1), 14” SQUARE PRESTRESSED CONCRETE PILE-Dated 07/01/10: Changed ALTERNATE STRAND PATTERNS.

Interim Index No. 20618 (Sheet 1 of 1), 18” SQUARE PRESTRESSED CONCRETE PILE-Dated 07/01/10: Changed ALTERNATE STRAND PATTERNS.

Interim Index No. 20620 (Sheet 1 of 1), 20” SQUARE PRESTRESSED CONCRETE PILE-Dated 07/01/10: Changed ALTERNATE STRAND PATTERNS.

Interim Index No. 20624 (Sheet 1 of 1), 24” SQUARE PRESTRESSED CONCRETE PILE-Dated 07/01/10: Changed ALTERNATE STRAND PATTERNS.

Interim Index No. 20630 (Sheet 1 of 1), 30” SQUARE PRESTRESSED CONCRETE PILE-Dated 07/01/10: Changed ALTERNATE STRAND PATTERNS.

Interim Index No. 21100 (Sheet 1 of 3), STRIP SEAL EXPANSION JOINT-Dated 07/01/10: Deleted INSTRUCTIONS TO DESIGNER and Diaphragm related details.

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.