



FY 2017-18 Design Standards

*Effective for Projects with Lettings in the Fiscal Year (FY) from
July 1, 2017 through June 30, 2018*

State of Florida Department of Transportation

Office of Design

Mail Station 32

605 Suwannee Street

Tallahassee, Florida 32399-0450

*For Construction and Maintenance Operations
on the State Highway System
Topic No. 625-010-003*

F D O T F Y 2 0 1 7 - 1 8 D E S I G N S T A N D A R D S

NOTICE

The Design Standards are intended to support the various engineering processes for construction and maintenance operations on the State Highway System. They are established to ensure the application of uniform standards in the preparation of contract plans for construction of roadways and structures. These Standards may be used for maintenance operations or adopted by other authorities for use on projects under their jurisdiction.

It is the responsibility of the Engineer of Record using these Standards to determine the fitness for a particular use of each standard in the design of a project. The inappropriate use of and adherence to these standards does not exempt the engineer from the professional responsibility of developing an appropriate design.

PATENTED DEVICES, MATERIALS AND PROCESSES

The use of any design, method, process, material or device either expressed or implied by these standards that are covered by patent, copyright, or proprietary privilege is the sole responsibility of the user. Any infringement on the rights of the inventor, patentee, assignee or licensee shall be the sole responsibility of the user. For additional information refer to Subsection 7-3 of the FDOT Standard Specifications for Road and Bridge Construction.

DISTRIBUTION OF EXEMPT PUBLIC DOCUMENTS:

*It is the policy of the Department to protect the State Highway System's infrastructure by defining the responsibilities for disclosure and use of sensitive documents showing the structural elements used in the design and construction of Department structures. **Section 119.071(3)(b), Florida Statute (F.S.)**, provides that these sensitive documents are exempt from Chapter 119, F.S., Florida's public records law. In accordance with Section 119.071(3)(b), F.S., the Department has adopted **Procedure 050-020-026, Distribution of Exempt Public Documents Concerning Department Structures and Security System Plans**, to define the method and responsibilities for disclosure and use of these sensitive documents.*

*Structure is defined in Section 334.03(27), F.S., as "a bridge, viaduct, tunnel, causeway, approach, ferry slip, culvert, toll plaza, gate, or other similar facility used in connection with a transportation facility" which would include related pipes and pipe systems. However, for the purpose of the public records law and **Procedure 050-020-026**, the Department has determined that the term "structure" includes "bridges with an opening of more than 20 feet between undercopings of abutments or spring lines of arches or extreme ends of openings for multiple boxes, and those other bridges subject to safety inspection under **Section 335.074, F.S.**" A roadway is not otherwise a structure for the purposes of **Procedure 050-020-026**.*

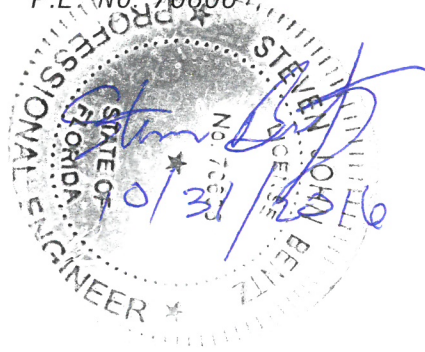
*Therefore, plans, blueprints, schematic drawings, and diagrams of structures owned by the Department are exempt from the public records provisions of Chapter 119, F.S. This exemption includes draft, preliminary, and final formats as described in **Procedure 050-020-026** and includes paper, electronic, and other formats. The Department has provided for the limited release of such documents in **Procedure 050-020-026**.*

*Entities or persons outside the Department requesting or receiving copies of any portion of plans or other documents considered Exempt Documents under **Procedure 050-020-026** must complete and submit a request form (**Form No. 050-020-26**). The form also advises the requestor that the entity or person receiving the documents shall maintain their exempt status. This procedure applies to all Department internal or contracted staff who have access to such Exempt Documents in their Department work. Refer to **Procedure 050-020-026** for additional requirements.*

CERTIFICATION STATEMENT

I hereby certify that these Design Standards were compiled under my responsible charge from designs prepared, examined, adopted, and implemented by the Florida Department of Transportation in accordance with established procedures, and as approved by the Federal Highway Administration.

Manager, Traffic Data Section
 Transportation Statistics Office
 Steven J. Bentz
 P.E. No. 70606



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State Roadway Design Engineer
 Michael Shepard
 P.E. No. 56900



State Traffic Operations Engineer
 Virgil Y. Tillander III
 P.E. No. 53502



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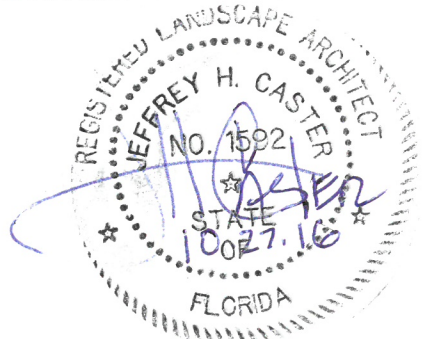
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State Structures Design Engineer
 Robert V. Robertson, Jr.
 P.E. No. 36160



State Transportation Landscape Architect
 Jeffrey H. Caster
 LA0001592



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Approved For Use On Federal Aid Projects

James Christian
 James Christian, Division Administrator

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FY 2017-18 REVISIONS

Index	Sheet No.	Description
STANDARD ABBREVIATIONS		
1	2 of 4	Added FSB = Florida Slab Beam.
	3 of 4	Added PBR = Pedestrian/Bicycle Railing.
	4 of 4	Added SHBR = Special Height Bicycle Railing.
EROSION CONTROL AND WATER QUALITY		
105	1 of 1	Changed General Notes # 1.A and 3; Changed the 1" Drop-Off call outs to Drop-Off (1/2" Min., 1" Max); Changed General Notes # 1.B, 2.B, 2.C and 2.D reference from "Finished Soil Layer" to "Prepared Soil Layer".
DRAINAGE		
200 Series	All	Changed "Location Reference" to "Sta./Offset Location"; Added "Sta./Offset Location" as needed.
200	2 of 5	Updated TABLE 1 NOTES
	4 of 5	Changed SLAB AND WALL DESIGN TABLE NOTE 9.
201	4 of 5	Changed General Note #1; Corrected Notes For Precast: last paragraph D3.1 to D4.0.
206	1 of 2	Deleted General Note #8, as this appears in the specs.
216	1 of 2	Changed the dimension 1'-4 1/2" to 1'-5 1/2" and In Section B-B, changed the dimension 1'-9" to 1'-10"; Added Callout for #5 Bars in Section B-B.
217	1 of 2	Added Note #10 updated bond breaker references to correctly call upon ASTM D6380 Class 5, Type III organic felt.
218	1 of 2	Change Roofing Paper to ASTM D6380 Class 5, Type III organic felt.
250	1 of 2	Changed Horizontal Clearance to Lateral Offset.
260	1 of 1	Updated Note 2: Lap length updated per AASHTO.
272	6 of 6	Changed the GENERAL NOTES.
273	6 of 6	Changed the GENERAL NOTES.
280	2 of 3	Changed the Note for the GUARD AT PIPE ENDS detail to remove payment information.
289	1 of 8	Updated Lap Splice lengths in Table 1 per AASHTO-BDS 2015 Interim.
295	1 of 1	Changed Note 4, Lap length per AASHTO-BDS 2015 Interim, from 12" minimum to 1'-5" minimum and "clearance" to "cover".

Index	Sheet No.	Description	
CURBS, CONCRETE PAVEMENT AND SIDEWALKS			
304	All	Updated Index to remove Criteria information. Additional updates made to clarify issues with location of Detectable Warnings.	
307	1 of 3	Updated notes for clarification.	
	2 of 3	Updated and reorganized sheet for clarification.	
	3 of 3	Deleted Plan View; Updated minimum cut line offset from 4' to 1'.	
310	All	Reorganized sheets, Updated Notes to show 6" Thick Concrete at the Turnouts and Curb Ramps.	
TRAFFIC RAILINGS			
400	1 of 22	Added note explaining usage of Approach Transition Connection to Rigid Barrier for new conditions only and add references to Index 402 for existing conflicting conditions. Explain that Miscellaneous Asphalt Pavement has a thickness tolerance of plus or minus a half inch. (to avoid excessively thick installations).	
	2 of 22	Added note explaining where Splice Ridge goes when reverse laning is used.	
	3 of 22	Deleted items from Note 8 that the TL-2 Guardrail would not be compatible with. Added note explaining where Splice Ridge goes when reverse laning is used.	
	4 of 22	Added option for 3/4" bracket holes to match splice slot size in the panel.	
	8 of 22	Clarified 1:10 grading on each side of Double Faced terminals and how to transition grade outside of 'LE'.	
	13 & 14 of 22	Clarified how the face of guardrail aligns with the face of the Rigid Barrier (4" behind original toe of barrier for F-Shape).	
	15 of 22	Added callout for gauge of Thrie-Beam Terminal connector.	
	16 of 22	Changed Note 1.	
	17 of 22	Added reference to Index 402 for existing layouts.	
	20 of 22	Changed Note 2 -Pipe Rail Should be excluded from segment 'LA' as well.	
	22 of 22	Updated Barrier Delineator Spacing.	
	402	1A, 1B & 1C of 24	Added previous Index 400 layouts that support Index 402.
		1, 23 & 24 of 24	Updated Sheets for compatibility with New Index 400.
		23 of 24	Clarified how to handle trailing guardrail transition connections.
405	5 & 6 of 6	Changed 30 lb smooth roofing paper to Organic Felt bond breaker along joint.	

Index	Sheet No.	Description
TRAFFIC RAILINGS		
410	1 of 25	Changed the >8' Spacing to 100' in the BARRIER DELINEATOR SPACING FOR CONCRETE BARRIER WALLS table.
	11 of 25	Changed "Roofing Felt" to "Organic Felt" ASTM D226 in Note 1.
414	All	Clarified Barrier Delineators between 414 and 415. Revised Misc. Asphalt Pad requirements.
	1 of 15	Update REINFORCING STEEL note reference to cold galvanizing from Spec 975 to 562.
415	All	Clarified Barrier Delineators between 414 and 415. Revised Misc. Asphalt Pad requirements.
	1 of 7	Changed Note #4, Changed Note #8, barrier delineators are to be spaced at 40' and 80' on all other locations.
	1, 4, 6 & 7 of 7	Clarified Misc. Asphalt Pad requirements.
	7 of 7	Updated Note 1.
420	1 & 2 of 4	Updated guardrail connection details per Index 400.
	4 of 4	Change splice length per AASHTO-BDS 2015 Interim.
421	1 & 2 of 4	Changed guardrail connections to match updated Index 400 (15'-0" overlap).
	4 of 4	Changed reinforcing splice length per AASHTO-BDS 2015 Interim.
422	1 & 2 of 3	Changed guardrail connection to match updated Index 400.
423	1 & 2 of 3	Changed guardrail connection to match updated Index 400.
424	2 of 7	Changed guardrail connection to match updated Index 400.
	5 of 7	Changed Note 4, Updated splice lengths per AASHTO BDS 2015 Interim.
425	1 & 2 of 3	Changed guardrail connection to match updated Index 400.
	2 & 3 of 3	Updated Lap Splice lengths per AASHTO-BDS 2015 Interim.
426	All	New Index.
427	All	New Index.
428	All	New Index.
471	4 of 4	Changed 30 lb smooth roofing paper to Organic Felt bond breaker.
480	2 of 2	Changed lap splice length per AASHTO-BDS 2015 Interim.
482	3 & 4 of 4	Changed 30 lb smooth roofing paper to Organic Felt bond breaker.
484	7 & 10 of 10	Changed 2 layers of 30 lb smooth roofing paper to Organic Felt bond breaker.

FY 2017-18 REVISIONS

Index	Sheet No.	Description
GENERAL		
500	All	Deleted reference to Index 501; Changed "Rural" and "Urban" to "Flush Shoulder Roadway" and "Curbed Roadway".
	1 of 2	Deleted the DESIGN NOTES, Moved Design Notes into the PPM, Vol.1, Chapter 3. Edited General Notes; heet 1: Deleted the DESIGN NOTES, Moved Design Notes into the PPM, Vol.1, Chapter 3. Edited General Notes; Changed Notes #1,2, 3, 4, 6; Deleted Note #7; Changed and renumbered Note #8.
	2 of 2	Separated the Superelevated and the Tangent Section (top left) and Moved the MISCELLANEOUS DETAILS into the PPM, Vol. 1, Chapter 3; Added Note #6. Separated options for underdrains in Curbed Roadway Sections.
505	4 of 4	Changed the Classification note for Special Select Soil to reference AASHTO T 215.
514	All	Moved Contents to Specification Section 285 and deleted Index.
515	All	Changed the Index Name to Turnouts and Driveways; Changed "URBAN" reference to "Curbed Roadways" and "RURAL" reference to "Flush Shoulders Roadway".
	5 of 7	Deleted reference to Index 205. Updated entire Drainage Pipe note (star): "Refer to Plans for size, type, length, and elevation of Drainage Pipe."
	6 of 7	Updated reference to Index 514.
516	1 of 1	Updated reference to Index 514; changed "Rural" to "Flush Shoulder".
519	1 of 1	Index has been deleted from the Design Standards and moved to a Developmental Design Standard.
525	All	Updated for clarification; Added new sheet showing friction course for Terminals.
530	3 of 3	Changed Steel Specifications Notes. Updated notes and details to current Florida Building Code. Updated ASTM for high strength bolts (ASTM F3125, Grade A325).
532	1 of 3	Changed General Note #5 "Mailboxes on curbed Highways".
542	All	New Design Standards Index.
544	1 of 3	Updated GENERAL NOTES 7 and 11.
	2 of 3	Renumbered Sheet.
	3 of 3	Sheet 3: Deleted. Tree protection barricade information to be added to new Index (542). Shrub planting details omitted, not critical information.
546	1 of 6	Changed Note 5.B.a deleted reference to Index 700.
	2, 5 & 6 of 6	Changed Horizontal Clearance (HC) to Lateral Offset (LO); Deleted reference to Index 700.
560	1 of 2	Changed General Note #6.

Index	Sheet No.	Description
TRAFFIC CONTROL THROUGH WORK ZONES		
600	1,3,4,8,9,11 and 12 of 12	Added allowance for non-reflective vinyl signs during the day and clarified that retroreflective vinyl signs can be used day or night if they meet requirements in Spec 994. Clarified the intent for removing pavement markings. Removed LCD note related to when they are placed singly to be the same as barricades. Clarified tolerance for connection points and when barrier delineators are required on Ped LCDs.
	5 of 12	Changed General Notes 1.b.; Changed Temporary Sign Support Note 1.
	9 of 12	Clarified Table 1, Condition 2, ">12-CZ" for "x" Dimension.
	11 of 12	Deleted Channelizing Device Note 9.
606	1 of 4	Deleted Signal Mount Details. Updated General Notes. Updated symbols (remove Traffic Signal & Portable Signal, add Tempoyary Signal).
	2 and 3 of 4	Updated various call-outs dealing with Tempoyary Signals and removable tape.
	4 of 4	Update various call-outs dealing with Tempoyary Signals and removable tape.
660	1 of 1	Revised Legend to clarify that Work Zone Signs do not have to be mounted on the LCD.
670	1 of 1	Added (MAS) to sheet title. Clarified and consolidated all General Notes and Conditions Notes. Updated references in the drawing to reflect the updated General Note numbering.
ROADSIDE SAFETY		
700	All	Deleted Index. Content already included in the Plans Preparation Manual (PPM).
FENCING AND PEDESTRIAN RAILINGS		
810	All	Deleted "No." after Sheet and Index and before Gage sizes, Deleted spaces between letter and number in ASTM Designations.
	2 of 4	Table of Chain Link Fence Components - Added Class 2b to PVC Coated Chain Link Fabric & Deleted color note; Changed galvanized steel pipe designation to "Regular Grade" per ASTM F1083.
811	All	Deleted "No." after Sheet and Index and before Gage size; Deleted spaces between letter and number in ASTM Designations.
	2 of 3	Table of Chain Link Fence Components - Added Class 2b to PVC Coated Chain Link Fabric & Deleted color note; Changed galvanized steel pipe designation to "Regular Grade" per ASTM F1083.
812	All	Deleted "No." after Sheet, Index and before Gage; Deleted spaces between letter and number in ASTM designations.
	2 of 4	Sheet 2: Table of Chain Link Fence Components - Add Class 2b to PVC Coated Chain Link Fabric & Deleted color note, Clarified neoprene pads for ancillary structures; Changed galvanized steel pipe designation to "Regular Grade" per ASTM F1083.
820	1 of 1	Reinforcing Steel Notes 4: Updated Lap Splice length per AASHTO-BDS 2015 Interim; Note 5.
821	1 of 1	Added Note 1 to clarify when tapered end transitions are required; Changed current Note 1 to Note 2; Changed Note # references.

Index	Sheet No.	Description
FENCING AND PEDESTRIAN RAILINGS		
822	1 of 1	Removed NOTE (now in Spec. 515).
	3 of 3	Updated Notes to remove specification language in new Section 515.
825	1 of 1	Reinforcing Steel Note 4: Updated Lap Splice lengths per AASHTO-BDS 2015 Interim.
851	All	All sheets: Notes revised/deleted to remove information included in Specification Section 515 and/or IDS.
	1 of 3	Added Notes (revised) from Sheet 3, Deleted Scheme 1 thru 3 Details;
	2 of 3	Added Scheme 1 thru 3 Details from Sheet 1; Removed Bottle Guard Details and Concrete Curb Details (WWR Details).
	3 of 3	Deleted Notes; Added Scheme 1 & 3 Bottle Guard Details from Sheet 2; Added Concrete Curb Details (WWR Details) from Sheet 2; Updated Splice Lap lengths per AASHTO-BDS 2015 Interim.
852	All	All Sheets: Using abbreviation PBR and SHPBR (added to Index 001) to reduce clutter.
	1 of 8	Deleted notes covered in Specification Section 515; Clarified and reorganize remaining notes.
	2 of 8	Updated note references.
	3 of 8	Clarified Detail "J" (round-over).
	4 of 8	Clarified Detail "B" (round over).
	5 of 8	Revised PICKET NOTE.
	6 & 7 of 8	Clarified SS Screw callouts.
	8 of 8	Revised Adhesive Anchor and Bearing Pad callouts.
861	All	Revised notes throughout to delete information included in Specification Section 515 and/or IDS.
	1 of 3	Added Notes from Sheet 3, Deleted Scheme 1 thru 3 Details.
	2 of 3	Added Scheme1 thru 3 Details from Sheet 1; Deleted Bottle Guard Details and Concrete Curb Details (WWR Details).
	3 of 3	Deleted Notes; Added Scheme 1 & 3 Bottle Guard Details from Sheet 2; Added Concrete Curb Details (WWR Details) from Sheet 2; Curb Reinforcing Steel Notes, #4, changed Lap Splice Length per AASHTO-BDS 2015 Interim.
862	All	Used abbreviation PBR and SHPBR (Added to Index 001) to reduce clutter.
	1 of 9	Deleted notes covered in Specification Section 515; Clarified and reorganized remaining notes.
	3 of 9	Clarified Detail "J" (round-over).
	4 of 9	Sheet 4: Clarified Detail "B" (round over).
	5 of 9	Sheet 5: Added references to Notes.
	6 of 9	Sheet 6: Revised PICKET NOTE.
	7 & 8 of 9	Clarified SS Screw callouts.
9 of 9	Revised Adhesive Anchor and Bearing Pad callouts.	

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Index	Sheet No.	Description
FENCING AND PEDESTRIAN RAILINGS		
870	1 of 5	Changed Notes.
	4 of 5	Clarify splice rolled edges are to remove sharp edges (size not critical); Clarified Detail "E" (round over).
	5 of 5	"Sidewalk Anchorage Detail" Option 2 & 3; Change Type A, B, Epoxy to Type AB; Option 1 Added Type AB Epoxy; Deleted information covered by Specifications and Notes.
880	1 of 5	Changed Notes.
	4 of 5	Clarified splice rounded edges are to remove sharp edges (size not critical); Clarified Detail "E" (round over).
	5 of 5	"Sidewalk Anchorage Detail" Option 2 & 3 - Changed Type A,B, Epoxy to Type AB, Option 1 Added Type AB Epoxy; Deleted information covered by Specifications and Notes.
NOISE AND PERIMETER WALL SYSTEMS		
5200	1 of 16	Note 10 clarified bearing pad reference.
	7 of 16	Note 2, changed anchor requirement; Added Note 4, Correct dimension in Section G-G.
	8 of 16	Changed spacing of first tie bar under collar.
	11 of 16	Changed spacing of first tie bar under collar; Changed Bars P5 placement.
	15 & 16 of 16	Updated tables; Updated Wind Loading and Development Lengths (Dim A) per AASHTO BDS 2015 Interim.
5210	1 of 5	Revised Guardrail connection.
	2 of 5	Deleted slip forming restriction in Notes.
	4 & 5 of 5	Sheet 4 & 5: Revised Guardrail connection.
5211	1 of 3	Corrected Note references (Open Joints and V-grooves); Deleted slip forming restriction from Note 2; Added Taper Length and *Note.
	2 of 3	Added taper length.
5212	1 of 2	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
5212	1 of 2	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
	2 of 2	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker; Updated Note 6-slip forming. Editorial change to Reinforcing Steel Note 4; Changed Splice Length per AASHTO-BDS 2015 Interim.
5213	1 of 2	Deleted slip forming restriction from Note 1.
5214	1 of 4	Deleted slip forming restriction from Note 1.
5215	1 of 1	Deleted slip forming restriction from Note 1.
5250	1 of 10	Changed Note 9.
	4 & 9 of 10	Changed maximum wall embedment depth.
	6 & 7 of 10	Changed spacing to P2 bar immediately under precast collar.
	10 of 10	Changed Lap Splice Length per AASHTO BDS 2015 Interim.

Index	Sheet No.	Description
WALL SYSTEM		
6011	1 of 1	Added ESTIMATED QUANTITIES table for SCHEME 1 - 4' & 5' heights and changed * note to include those values; Changed 30 lb smooth roofing paper to Organic Felt; Updated Lap Splice length per AASHTO BDS 2015 Interim.
6040	2 & 3 of 4	Changed Splice Length per AASHTO BDS 2015 Interim.
6110	1 of 6	Changed Lap Splice length per AASHTO BDS 2015 Interim.
	2 of 6	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
	3 of 6	Changed Lap Splice length; Changed length of Bar 5A for precast coping; Changed 30 lb smooth roofing paper to Organic Felt bond breaker.
	4 of 6	Changed Lap Splice length.
6120	1 of 3	Changed Lap Splice length per AASHTO BDS 2015 Interim.
	2 of 3	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
	3 of 3	Changed Lap Splice lengths; Changed length of Bar 5A for precast coping; Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
6130	2 of 2	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
6200	2 of 3	Sheet 2: Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
6201	1 of 1	Changed 30 lb. smooth roofing paper to Organic Felt bond breaker.
SIGNING AND MARKINGS		
11200	1 of 3	Changed Note #3.C.a, #3.C.b, #3.E.a, #5.C, #5.D, #6.B and #6.C.
	2 of 3	Separated the Foundation and Base Connection Table, Corrected call out in the Foundation Elevation, Added 1'-8" Lap in the Foundation Plan; Corrected row "R" in the Alternative base Connection Data Table.
	3 of 3	Changed the Sign Panel Splice and Detail 'A' to Lock Washers; Changed the NUMBER OF WIND BEAMS FOR GIVEN DEPTH for update to LRFD Spec.
11300	3 of 3	Changed panel-to-wind beam connection from lock-nuts to nuts with lock-washers; Update Tables for LRFD Spec.
11310	1 of 5	Changed Note #4.B.a - High Strength Bolts: ASTM F3125, Grade A325, Type 1.
	2 of 5	Added note to 'FA' Shaft Length.
	3 of 5	Clarified Upper Pipe Location.
	4 of 5	Deleted Note 2; Clarified references.
	5 of 5	Changed Note 2; Added dimension to the SPLICE CONNECTION DETAILS.

Index	Sheet No.	Description
SIGNING AND MARKINGS		
11320	All	Updated Index and Notes.
	1 of 5	Changed Note #4.B.a - High Strength Bolts: ASTM F3125, Grade A325, Type 1.
11860	1 & 3 of 9	Changed the bold line work in the tables; Updated Tables for LRFD Spec.
	4 of 9	Changed Note #2B: Added Alternate connection in DETAIL "A".
	5 of 9	Deleted "Direction of Traffic" from Aluminum Soil Plate Detail.
	6 of 9	Changed the Bracket Detail U-Bolt call out to flat washer with double nuts.
11862	1 of 8	Added Solar Powered Beacon With Auxiliary Pole figure to sheet; Changed GENERAL NOTES: To read first person imperative; Moved the POLE WIRING DETAIL to Sheet 2.
	2 of 8	New Sheet showing CONVENTIONAL POWERED WARNING SIGN DETAILS; Added the POLE WIRING DETAIL from Sheet 1; Changed Note 2 to remove the reference to Index 700.
	3 of 8	Deleted (Optional) from the Solar Panel callout; Added Sign Panel to the 48" x 48" callout; Added callout to the bottom 12" Yellow Flashing Beacon; Added Nominal 4" Sch. 40 Aluminum callout; Added Slip Base callout; Changed NOTES: To read first person imperative; Added Slip Base and Footing Details for Index 11860.
	4 of 8	Updated beacon figure to show on a flat surface; Moved existing beacon detail under the CONCRETE SLAB DETAIL; Added new titles to separate the BEACON and the AUXILIARY POLE details; Added new FRONT VIEW for the AUXILIARY POLE detail; Moved and renamed sheet title; Changed NOTES: To read first person imperative; Renumbered Sheet.
	5 of 8	Dashed and grayed out the Solar Panels; Added Sign to the W11-2, W16-7Pand R1025 callouts; Added Transformer Base callout; Deleted the Anchor Bolt callout; Changed NOTES: To read first person imperative; Added dimensions to battery boxes.
11862	6 of 8	Dashed and grayed out the Optional Solar Panels and Optional Solar Battery Compartments; Added Sign to the S5-1 callout; Added Transformer Base callout; Deleted the Anchor Bolt callout; Changed NOTES: To read first person imperative.
	7 of 8	Dashed and grayed out the Optional Solar Panels and Optional Solar Battery Compartments; Added Sign to the S5-1 callout; Added Transformer Base callout; Changed NOTES: To read first person imperative.
11870	All	Updated notes for consistency and rearranged details.
	1 of 3	Changed the SIGN LIMITATIONS TABLE for LRFD Spec.
11871	1 of 2	Changed Notes for consistency; Updated Layout for clarification; Updated Table for LRFD Spec.

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Index	Sheet No.	Description
SIGNING AND MARKINGS		
17302	1 of 1	Changed CASE IX Mile Post Marker height to 4'-0" Min., 4'-6" Max.
17346	All	Changed Index title to "PAVEMENT MARKINGS" and renumbered.
	1 of 17	Moved Pavement Marking Lines, Contrast Markings and Yield Lines.
	2 of 17	Changed Yield Line Note.
	3 & 4 of 17	Added New sheets showing Placement or Longitudinal Pavement Markings.
	17 of 17	Added Table for the "B" dimension.
17349	1 of 1	Updated Case 1 details in two top details to match Case 1 in bottom detail.
17354	1 of 1	Changed NOTES; Changed Sign Name convention; Added call outs for the Post and Edge of Travel Lane; other editorial changes; Added worksheet for text size, spacing and border.
ROADWAY LIGHTING		
17501	All	Deleted Index. Notes added to 17502.
17502	1 of 6	Changed Note #1.
	2 of 6	Updated Tables for LRFD Spec.
	3 of 6	Added slope to Base Plate And Anchorage Elevation detail; added note to Shaft Length in Section B-B; Updated weld in Section E-E; Updated Jam Nut and Backing Ring in Section C-C.
17504	2 of 2	Changed Notes #5 to include NEMA 4X SST Ground Mounted Enclosure.
17505	1 of 2	Added Luminaire Mount Note.
	2 of 2	Changed Locking Nuts to Double Nuts for the 3/8" U-Bolts.
17515	All	Updated LRFD Spec.
	1 & 2 of 8	Updated Sheets 1 and 2 (to place General Notes on Sheet 1).
	1 of 8	Updated material Spec for steel bolts, nuts, washers, and stainless steel fasteners; Added additional material and procedural criteria for welding of the Arm and Pole; Added base shoe component to construction notes.
	2 of 8	Updated vertical dimensions for clarity; Deleted "NOTE: DO NOT ERECT POLE WITHOUT LUMINAIRE ATTACHED".
	3 of 8	Updated Table data for LRFD Spec.; Changed lower arm tube connection from single to double bolt style.
	4 of 8	Specified "Flowable Fill" backfill; Updated Table data for LRFD Spec..
	5 of 8	Added Note 2 for Jam Nut usage.
	6 of 8	Added Note 2 for Dowel Bars; Clarified callouts for bar locations in the Elevation and End Views.
	7 & 8 of 8	Added Index 421 reference for additional details; Clarified callouts for reinforcing placement.

Index	Sheet No.	Description
TRAFFIC SIGNAL AND EQUIPMENT		
17700	1 of 1	Changed Note #8 and added new Note #9 for spacing between Pull Boxes.
17723	1 of 3	Changed Note #3.D.a - High Strength Bolt - ASTM F3125, Grade A325, Type 1.
	2 of 3	Updated the Table: Added Note 1; Updated the Break Radius in SECTION B-B; Changed Bar Lap to 2'-0" in the FOUNDATION; Changed the Backing Ring size to 2" in Detail 'A'.
	3 of 3	Changed the CATENARY AND MESSENGER WIRE CLAMPS to Double Nuts.
	3 of 8	Deleted reference to Index 17900 and Specification 744; Changed Sheet name.
17725	5 of 8	Added previously deleted dimensions back in to elevation view.
	7 of 8	Updated recently added Tip End out-to-out dimensions compatible with void dimension call-outs.
	8 of 8	Added option of smaller void.
	1 of 2	Updated Note 1.
17727	2 of 2	Deleted the Pivotal Hanger Assembly; Deleted the Upper and Lower Reinforcement Plates; Changed Hanger Assembly attachment from a single bolt connection to a Tri-Stud connection; Changed the Messenger Cable Clamp; Deleted Notes 1, 3-5 and added new notes; Deleted the Vertical Clearance information; Changed the Bottom Tether Clamp to a Tri-Stud Clamp.
	1 of 1	Updated Arm and Pole sizes for LRFD Spec.
17743	2 of 2	Deleted Sheet.
	1 of 6	Changed Note #4 and #5.
17745	2 of 6	Changed Note #3; Changed Tie Bar Callout in the Foundation Elevation.
	3 of 6	Changed Note #3; Changed Seam Weld Location In Section D-D; Added D-D Line Single Arm Connection.
	4 of 6	Changed Note #3; Changed Seam Weld Location In Section G-G.
	5 of 6	Corrected dimension location for the Base Plate Thickness in Section H-H.
	6 of 6	Corrected Pole Thickness in Section J-J and Section K-K.
17764	1	Updated FIGURE A, B and E; Deleted FIGURE D; Changed the Notes.
17781	1 of 2	Changed Note #3.
17882	1 of 4	Added Class V and VI to GENERAL NOTES #5.
	2 of 4	Changed Note #1.

Index	Sheet No.	Description
INTELLIENENT TRANSPORATION SYSTEMS		
18111	1 of 4	Changed Pole Note #10.d - Bolts - ASTM F3125, Grade A325, Type 1.
	2 of 4	Updated the SHAFT DESIGN TABLE and the POLE DESIGN TABLE for LRFD Spec.
	3 of 4	Added note to Shaft Length; Updated the Break Radius in SECTION D-D.
	4 of 4	Updated Bolts to Double Nuts in the POLE TENON ASSEMBLY DETAIL.
18300	3 of 9	Updated the Wire Screen call out; Clarified Handhole location.
	4 of 9	Clarified Handhole location.
	5 of 9	Added Design Wind Speed note; Deleted Note 8.
	6 of 9	Changed - ASTM F3125, Grade A325, Type 1 in the Callouts.
PRESTRESSED CONCRETE BEAMS		
20010	1 of 2	Change Notes.
	2 of 2	Updated references to Notes; Changed Welded Wire Reinforcement to WWR.
20036	All	Updated references to Index 20010 (series) notes.
20048	All	Updated references to Index 20010 (series) notes.
20054	All	Updated references to Index 20010 (series) notes.
20063	All	Updated references to Index 20010 (series) notes.
20072	All	Updated references to Index 20010 (series) notes.
20078	All	Updated references to Index 20010 (series) notes.
20084	All	Updated references to Index 20010 (series) notes.
20096	All	Updated references to Index 20010 (series) notes.
20120	1 of 4	Changed Notes.
	2-4 of 4	Changed welded wire reinforcement to WWR; Updated references to Notes.
	4 of 4	Added Epoxy Coating with reference to Note.
20210	1 of 2	Changed notes; Moved SCHEMATIC END ELEVATIONS OF BEAMS to Sheet 2.
	2 of 2	Moved Beam Notes to Sheet 1; Added SCHEMATIC END ELEVATIONS OF BEAMS from Sheet 1; Updated references to Notes.
20248	All	Updated references to Notes (Index 20210).
	2 & 3 of 3	Changed Lap Splice lengths per AASHTO BDS 2015 Interims.

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Index	Sheet No.	Description
PRESTRESSED CONCRETE BEAMS		
20254	All	Updated references to Notes (Index 20210).
	2 & 3 of 3	Changed Lap Splice lengths per AASHTO BDS 2015 Interims.
20263	All	Updated references to Notes (Index 20210).
	2 & 3 of 3	Changed Lap Splice lengths per AASHTO BDS 2015 Interims.
20272	All	Updated references to Notes (Index 20210).
	2 & 3 of 3	Changed Lap Splice lengths per AASHTO BDS 2015 Interims.
SQUARE AND ROUND CONCRETE PILES (WITH CARBON STEEL)		
20600	1 of 1	Changed Notes; Changed Type B Epoxy to Type AB; Added reference to Spec. Section 450 for prestressing strands.
20654	1 of 2	Changed Notes, Changed Type A and B Epoxy to Type AB.
20660	1 of 2	Changed Notes, Changed Type A and B Epoxy to Type AB Epoxy.
APPROACH SLABS		
20900	1 of 2	Added "U-Shaped" to Dowels at backwall; Changed 30 lb roofing paper to Organic Felt bond breaker.
	2 of 2	Changed triple bullet rail to double; Changed Lap splice lengths per AASHTO-BDS 2015 Interim.
20910	1 of 2	Changed 30 lb smooth roofing paper to Organic Felt bond breaker; Added "U-shaped" to Dowels at backwall connection to approach slab; Editorial Changes to General Notes 6 & 9.
	2 of 2	Changed Triple bullet rail to a double; Changed Lap splices per AASHTO-BDS 2015 Interim.
STANDARD BAR BENDING DETAILS		
21300	1 of 1	Deleted dimension lines from A/G hooks for Type 4, 9, 17, 18, and 33; Deleted Note for Type 17 Bars; Changed spiral materials note.
TEMPORARY DETOUR BRIDGES		
21600	1 of 7	Changed ASTM A325 high strength bolts to ASTM F3125 Grade A325.
21640	5 of 6	Changed ASTM A325 high strength bolts to ASTM F3125 Grade A325.

Index No.	Sheet No.	Description
POST-TENSIONING		
21801	1 of 2	Clarified "Low Point/Inlet" on Profile F8 and "Filler Port/Outlet" in the Legend; Changed tendon profiles to address different tendon geometries and injection and venting locations for tendons with flexible filler versus grout filler.
	2 of 2	Added Sheet.
21802	1	Clarified TYPE 9 detail to show Temporary Drain Hole extends to face of Adjacent Exterior Concrete. Added Type 3B; Changed Type 3 detail to Type 3A; Changed "cover" to "clearance" in Type 11.
21803	1 of 3	Added vacuum system note.
	2 of 3	Deleted High Point Inspection Detail with rigid filler pipes; Changed orientation of Inlet End detail for Bar Tendons; Added vacuum system note.
	3 of 3	Deleted Sheet.
WALL SYSTEMS (CORROSION RESISTANT)		
22440	All	New Index.
SQUARE AND ROUND CONCRETE PILES (CORROSION RESISTANT)		
22600	1 of 1	Changed Notes; Changed Type B Epoxy to Type AB.
22612	1 of 2	Changed Alternate Strand Patterns to 4 CFRP strands and Note 2.
22624	1 of 2	Changed Alternate Strand Patterns to 16 CFRP strands.
22654	1 of 3	Updated Notes; Changed Types A & B Epoxy to Type AB.
22660	1 of 3	Updated Notes; Changed Types A & B Epoxy to Type AB.