



FY 2016-17 Design Standards

*Effective for Projects with Lettings in the Fiscal Year (FY) from
July 1, 2016 through June 30, 2017*

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

*State of Florida Department of Transportation
Office of Design
Mail Station 32
605 Suwannee Street
Tallahassee, Florida 32399-0450*

F D O T F Y 2 0 1 6-17 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

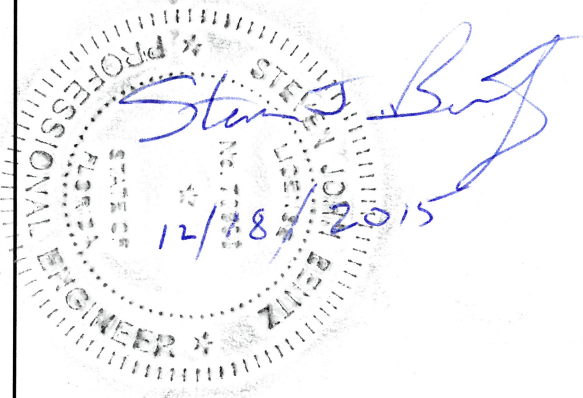
As To Planning
Design Standards Index

17900

As To Roadway
Design Standards Indexes

001-105
200-288
293-402
410-415
430, 461
500
505-535
546, 560
600-803
870-880
11200-11871
13417-17890

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



State Traffic Operations Engineer
Mark C. Wilson
P.E. No. 46780

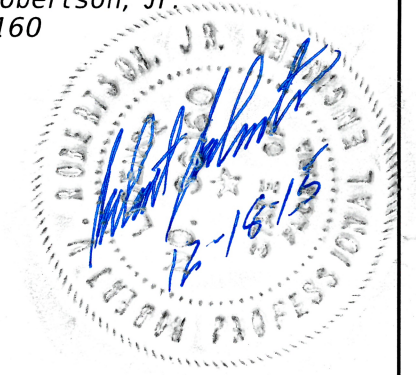
As To ITS
Design Standards Indexes

18100-18300

As To Structures
Design Standards Indexes

289-292
404-405
420-425
470-484
501, 540
810-862
5200-6201
20005-21930
22600-22660

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



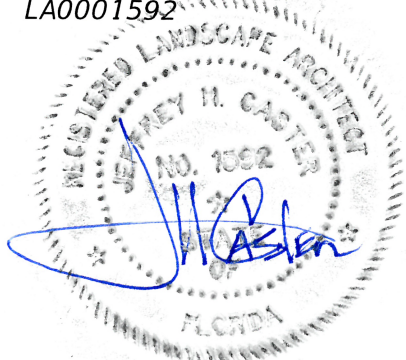
State Transportation Landscape Architect
Jeffrey H. Caster
LA0001592

As To Landscape Architecture
Design Standards Index

544

Approved For Use On Federal Aid Projects

James Christian
James Christian, Division Administrator



FY 2016-17 TABLE OF CONTENTS

**Index
Number Title**

REVISIONS

Booklet Revisions

ABBREVIATIONS AND SYMBOLS

- 1 Standard Abbreviations
- 2 Standard Symbols

EROSION CONTROL AND WATER QUALITY

- 104 Permanent Erosion Control
- 105 Shoulder Sodding and Turf on Existing Facilities

DRAINAGE

- 200 Structure Bottoms - Type J and P
- 201 Supplementary Details for Manholes and Inlets
- 206 Trench Drain
- 210 Curb Inlet Tops - Types 1, 2, 3 and 4
- 211 Curb Inlet Tops - Types 5 and 6
- 212 Curb Inlet - Type 7
- 213 Curb Inlet - Type 8
- 214 Curb Inlet Top - Type 9
- 215 Curb Inlet Top - Type 10
- 216 Closed Flume Inlet
- 217 Median Barrier Inlets Types 1, 2, 3, 4 and 5
- 218 Barrier Wall Inlet
- 219 Concrete Barrier Wall Inlet
- 220 Gutter Inlet - Type S
- 221 Gutter Inlet - Type V
- 230 Ditch Bottom Inlet - Type A
- 231 Ditch Bottom Inlet - Type B
- 232 Ditch Bottom Inlet - Type C, D, E and H
- 233 Ditch Bottom Inlet - Type F and G
- 234 Ditch Bottom Inlet - Type J
- 235 Ditch Bottom Inlet - Type K
- 240 Skimmer For Outlet Control Structures
- 241 Skimmers For French-Drain Outlets
- 245 Underdrain Inspection Box
- 250 Straight Concrete Endwalls - Single And Multiple Pipe
- 251 Straight Concrete Endwalls - Single And Double 60" Pipe
- 252 Straight Concrete Endwalls - Single And Double 66" Pipe
- 253 Straight Concrete Endwalls - Single And Double 72" Pipe
- 255 Straight Concrete Endwalls - Single 84" Pipe
- 258 Straight Sand-Cement Endwalls
- 260 U-Type Concrete Endwalls With Grates - 15" to 30" Pipe
- 261 U-Type Concrete Endwalls-Baffles and Grate Optional - 15" To 30" Pipe
- 264 U-Type Concrete Endwall-Energy Dissipator - 30" to 72" Pipe
- 266 Winged Concrete Endwalls - Single Round Pipe
- 268 U-Type Sand-Cement Endwalls
- 270 Flared End Section
- 272 Cross Drain Mitered End Section
- 273 Side Drain Mitered End Section
- 280 Miscellaneous Drainage Details
- 281 Ditch Pavement and Sodding
- 282 Back of Sidewalk Drainage
- 283 Median Opening Flume
- 284 Concrete Shoulder Gutter Spillway
- 285 French Drain
- 286 Underdrain
- 287 Concrete Pavement Subdrainage
- 288 Deep Well Injection Box
- 289 Concrete Box Culvert Details (LRFD)
- 291 Supplemental Details for Precast Concrete Box Culverts
- 292 Standard Precast Concrete Box Culverts
- 293 Safety Modifications for Inlets in Box Culverts
- 295 Safety Modifications for Endwalls

**Index
Number Title**

CURBS, CONCRETE PAVEMENT AND SIDEWALKS

- 300 Curb & Curb and Gutter
- 301 Turn Lanes
- 302 Traffic Separators
- 303 Curb Return Profiles
- 304 Detectable Warnings and Sidewalk Curb Ramps
- 305 Concrete Pavement Joints
- 306 Bridge Approach Expansion Joint -Concrete Pavement
- 307 Miscellaneous Utility Details
- 308 Concrete Slab Replacement
- 310 Concrete Sidewalk

TRAFFIC RAILINGS

- 400 Guardrail
- 402 Guardrail Transitions and Connections for Existing Bridges
- 404 Guardrail Transitions - Existing Post & Beam Bridge Railings (Narrow & Recessed Curbs)
- 405 Guardrail Transitions - Existing Post & Beam Bridge Railings (Wide Curbs)
- 410 Concrete Barrier Wall
- 411 Pier Protection Barrier
- 412 Low Profile Barrier
- 414 Type K Temporary Concrete Barrier System
- 415 Temporary Concrete Barrier
- 420 Traffic Railing - (32" F Shape)
- 421 Traffic Railing - (Median 32" F Shape)
- 422 Traffic Railing - (42" Vertical Shape)
- 423 Traffic Railing - (32" Vertical Shape)
- 424 Traffic Railing - (Corral Shape)
- 425 Traffic Railing - (42" F Shape)
- 430 Crash Cushion Details
- 461 Opaque Visual Barrier
- 470 Traffic Railing-(Thrie Beam Retrofit) General Note & Details
- 471 Traffic Railing-(Thrie Beam Retrofit) Narrow Curb
- 472 Traffic Railing-(Thrie Beam Retrofit) Wide Strong Curb Type 1
- 473 Traffic Railing-(Thrie Beam Retrofit) Wide Strong Curb Type 2
- 474 Traffic Railing-(Thrie Beam Retrofit) Intermediate Curb
- 475 Traffic Railing-(Thrie Beam Retrofit) Wide Curb Type 1
- 476 Traffic Railing-(Thrie Beam Retrofit) Wide Curb Type 2
- 477 Thrie-Beam Panel Retrofit (Concrete Handrail)
- 480 Traffic Railing-(Vertical Face Retrofit) General Notes & Details
- 481 Traffic Railing-(Vertical Face Retrofit) Narrow Curb
- 482 Traffic Railing-(Vertical Face Retrofit) Wide Curb
- 483 Traffic Railing-(Vertical Face Retrofit) Intermediate Curb
- 484 Traffic Railing- (Vertical Face Retrofit) Spread Footing Approach

GENERAL

- 500 Removal of Organic and Plastic Material
- 505 Embankment Utilization
- 506 Miscellaneous Earthwork Details
- 510 Super-elevation - Rural Highways, Urban Freeways and High Speed Urban Highways
- 511 Super-elevation - Urban Highways and Streets
- 514 Optional Base Group and Structural Numbers
- 515 Turnouts
- 516 Turnouts - Resurfacing Projects
- 517 Raised Rumble Strips
- 518 Shoulder Rumble Strips
- 519 Rumble Striping
- 521 Concrete Steps
- 525 Ramp Terminals
- 526 Roadway Transitions
- 527 Directional Median Opening
- 530 Rest Area Pavilion
- 532 Mailboxes

**Index
Number Title**

- 535 Tractor Crossings
- 540 Settlement Plate
- 544 Landscape Installation
- 546 Sight Distance at Intersections
- 560 Railroad Crossings

TRAFFIC CONTROL THROUGH WORK ZONES

- 600 General Information for Traffic Control Through Work Zones
- 601 Two-Lane, Two-Way, Work Outside Shoulder
- 602 Two-Lane, Two-Way, Work On Shoulder
- 603 Two-Lane, Two-Way, Work Within The Travel Way
- 604 Two-Lane, Two-Way, Work in Intersection
- 605 Two-Lane, Two-Way, Work Near Intersection
- 606 Two-Lane, Two-Way, Work Within the Travel Way - Signal Control
- 607 Two-Lane, Two-Way, Mobile Operation, Work On Shoulder and Work Within the Travel Way
- 608 Two-Lane, Two-Way, Temporary Diversion Connection
- 611 Multilane, Work Outside Shoulder
- 612 Multilane, Work On Shoulder
- 613 Multilane, Work Within Travel Way-Median or Outside Lane
- 614 Multilane, Work Within Travel Way-Center Lane
- 615 Multilane, Work in Intersection
- 616 Multilane, Work Near Intersection-Median or Outside Lane
- 617 Multilane, Work In Intersection - Center Lane
- 618 Multilane, Work In Intersection -Two Lanes Closed-45mph or Less
- 619 Multilane, Mobile Operations Work on Shoulder, Work Within Travel Way
- 620 Multilane, Divided, Temporary Diversion Connection
- 621 Multilane Undivided, Temporary Diversion Connection
- 622 Multilane, Work Near Intersection-Temporary Diversion Connection 35mph or Less
- 623 Multilane, Work Within the Travel Way Double Lane Closure
- 625 Temporary Road Closure- 5 Minutes or Less
- 628 Two Way Left Turn Lane Closure
- 630 Crossover for Paving Train Operations, Rural
- 631 Temporary Crossover
- 640 Converting Two-Lanes to Four-Lanes Divided, Rural
- 641 Converting Two-Lanes to Four-Lanes Divided, Urban
- 642 Transitions for Temporary Concrete Barrier Wall on Freeway Facilities
- 650 Two-Lane Two-Way, Rural Structure Replacement
- 651 Multilane Divided, Maintenance and Construction
- 655 Traffic Pacing
- 660 Pedestrian Control for Closure of Sidewalks
- 665 Limited Access, Temporary Opening
- 667 Toll Plaza, Traffic Control Standards
- 670 Motorist Awareness System

ROADSIDE SAFETY

- 700 Roadside Offsets

FENCING AND PEDESTRIAN RAILINGS

- 800 Fence Location
- 801 Fence - Type A
- 802 Fence - Type B
- 803 Cantilever Slide Gate - Type B Fence
- 810 Bridge Fencing (Vertical)
- 811 Bridge Fencing (Curved Top)
- 812 Bridge Fencing (Enclosed)
- 820 27" Concrete Parapet With Pedestrian/Bicycle With Bullet Railing
- 821 Bridge Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing (32" F Shape)
- 822 Bridge Aluminum Pedestrian/Bicycle Bullet Railing Details
- 825 42" Concrete Pedestrian/Bicycle Railing
- 851 Bridge Pedestrian/Bicycle Railing (Steel)
- 852 Steel Pedestrian/Bicycle Railing

FY 2016-17 TABLE OF CONTENTS

Index Number Title

- 861 Bridge Pedestrian/Bicycle Railing (Aluminum)
- 862 Aluminum Pedestrian/Bicycle Railing
- 870 Aluminum Pipe Guiderail
- 880 Steel Pipe Guiderail

NOISE AND PERIMETER WALL SYSTEMS

- 5200 Precast Noise Walls
- 5210 Traffic Railing/Noise Wall (8'-0")
- 5211 Traffic Railing/Noise Wall (14'-0")
- 5212 Traffic Railing/Noise Wall (8'-0") Junction Slab
- 5213 Traffic Railing/Noise Wall T-Shaped Spread Footing
- 5214 Traffic Railing/Noise Wall L-Shaped Spread Footing
- 5215 Traffic Railing/Noise Wall Trench Footing
- 5250 Perimeter Walls

WALL SYSTEMS

- 6010 C-I-P Cantilever Retaining Wall
- 6011 Gravity Wall
- 6020 Permanent MSE Retaining Wall Systems
- 6030 Temporary MSE Retaining Wall Systems
- 6040 Precast Concrete Sheet Pile Wall
- 6100 MSE Wall Coping (Precast or C-I-P)
- 6110 Wall Coping With Traffic Railing/Junction Slab
- 6120 Wall Coping With Traffic Railing/Raised Sidewalk
- 6130 Wall Coping/Parapet With C-I-P Sidewalk
- 6200 Coping Mounted Light Pole Pedestal
- 6201 Junction Slab at Drainage Inlet Openings

SIGNING AND MARKINGS

- 11200 Multi-Column Ground Sign
- 11300 Steel Overhead Sign Structures
- 11310 Cantilever Sign Structure
- 11320 Span Sign Structure
- 11860 Single Column Ground Signs
- 11861 Single Column Cantilever Ground Mounted Sign
- 11862 Roadside Flashing Beacon Assembly
- 11870 Single Post Bridge Mounted Sign Support
- 11871 Single Post Median Barrier Mounted Sign Support
- 13417 Mounting Exit Number Panels To Highway Signs
- 17302 Typical Sections For Placement of Single & Multi-Column Signs
- 17328 Typical Signing for Truck Weigh & Inspection Stations
- 17344 School Signs & Markings
- 17345 Interchange Markings
- 17346 Special Marking Areas
- 17347 Bicycle Markings
- 17349 Traffic Controls For Street Terminations
- 17350 Signing For Motorist Services
- 17351 Welcome Center Signing
- 17352 Typical Placement Of Reflective Pavement Markers
- 17354 Tourist Oriented Directional Signs
- 17355 Special Sign Details
- 17356 Span Wire Mounted Sign Details
- 17357 Bridge Weight Restrictions
- 17359 Rural Narrow Bridge Treatment

ROADWAY LIGHTING

- 17500 Conventional Lighting
- 17501 Highway Lighting General Notes
- 17502 High Mast Lighting
- 17504 Service Point Details
- 17505 External Lighting For Signs
- 17515 Standard Aluminum Lighting

Index Number Title

TRAFFIC SIGNAL AND EQUIPMENT

- 17700 Pull & Splice Box
- 17721 Conduit Installation Details
- 17723 Steel Strain Pole
- 17725 Concrete Poles
- 17727 Signal Cable & Span Wire Installation Details
- 17733 Aerial Interconnect
- 17736 Electrical Power Service
- 17743 Standard Mast Arm Assemblies
- 17745 Mast Arm Assemblies
- 17748 Free-Swinging Internally-Illuminated Street Sign Assemblies
- 17764 Pedestrian Control Signal Installation Details
- 17781 Vehicle Loop Installation Details
- 17784 Pedestrian Detector Assembly Installation Details
- 17841 Cabinet Installation Details
- 17870 Standard Signal Operating Plans
- 17881 Advance Warning For R/R Crossing
- 17882 Railroad Grade Crossing Traffic Control Devices
- 17890 Traffic Control Devices For Movable Span Bridge Signals

PLANNING

- 17900 Traffic Monitoring Site

INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

- 18100 CCTV Pole Placement
- 18101 Typical CCTV Site
- 18102 Grounding And Lightning Protection
- 18104 Typical CCTV Cabinet Equipment Layout
- 18105 CCTV Block Diagram
- 18107 Ground Mounted CCTV Cabinet
- 18108 Pole Mounted CCTV Cabinet
- 18110 Camera Mounting Details
- 18111 Steel CCTV Pole
- 18113 Concrete CCTV Pole
- 18300 Dynamic Message Sign Walk-In

PRESTRESSED CONCRETE BEAMS

- 20010 Typical Florida-I Beam Details and Notes
- 20036 Florida-I 36 Beam - Standard Details
- 20045 Florida-I 45 Beam - Standard Details
- 20054 Florida-I 54 Beam - Standard Details
- 20063 Florida-I 63 Beam - Standard Details
- 20072 Florida-I 72 Beam - Standard Details
- 20078 Florida-I 78 Beam - Standard Details
- 20084 Florida-I 84 Beam - Standard Details
- 20096 Florida-I 96 Beam - Standard Details
- 20120 AASHTO Type II Beam
- 20199 Build-Up & Deflection Data For Prestressed I-Beams
- 20210 Typical Florida-U Beam Details and Notes
- 20248 Florida-U 48 Beam - Standard Details
- 20254 Florida-U 54 Beam - Standard Details
- 20263 Florida-U 63 Beam - Standard Details
- 20272 Florida-U 72 Beam - Standard Details
- 20299 Build-Up and Deflection Data For Florida-U Beams

BRIDGE BEARINGS

- 20502 Beveled Bearing Plate Details - Prestressed Florida-U Beams
- 20510 Composite Elastomeric Bearing Pads-Prestressed Florida-I & AASHTO Type II Beams
- 20511 Bearing Plates (Type 1) - Prestressed Florida-I & AASHTO Type II Beams
- 20512 Bearing Plates (Type 2) - Prestressed Florida-I & AASHTO Type II Beams

Index Number Title

SQUARE AND ROUND CONCRETE PILES

- 20600 Notes and Details For Square Prestressed Concrete Piles
- 20601 Square Prestressed Concrete Pile Splices
- 20602 EDC Instrumentation For Square Prestressed Concrete Piles
- 20612 12" Square Prestressed Concrete Pile
- 20614 14" Square Prestressed Concrete Pile
- 20618 18" Square Prestressed Concrete Pile
- 20620 20" Square Prestressed Concrete Pile
- 20624 24" Square Prestressed Concrete Pile
- 20630 30" Square Prestressed Concrete Pile
- 20631 High Moment Capacity 30" Square Prestressed Concrete Pile
- 20654 54" Precast/Post-Tensioned Concrete Cylinder Pile
- 20660 60" Prestressed Concrete Cylinder Pile

APPROACH SLABS

- 20900 Approach Slabs (Flexible Pavement Approaches)
- 20910 Approach Slabs (Rigid Pavement Approaches)

BRIDGE EXPANSION JOINTS

- 21100 Strip Seal Expansion Joint
- 21110 Poured Joint With Backer Rod Expansion Joint System

STRUCTURES ACCESS AND LIGHTING

- 21200 Light Pole Pedestal
- 21210 Conduit Details
- 21220 Navigation Light System Details (Fixed Bridges)
- 21240 Maintenance Lighting For Box Girders
- 21250 Access Hatch Assembly For Steel Box Sections
- 21251 Access Hatch Assembly For Concrete Box Sections
- 21252 Access Door Assembly For Concrete Box Sections

STANDARD BAR BENDING DETAILS

- 21300 Standard Bar Bending Details

TEMPORARY DETOUR BRIDGES

- 21600 Temporary Detour Bridge General Notes and Details
- 21610 Temporary Detour Bridge Details - Timber Pile Foundations
- 21620 Temporary Detour Bridge Details - Steel H Pile Foundations
- 21630 Temporary Detour Bridge Details - Steel Pipe Pile Foundations
- 21640 Temporary Detour Bridge Thrie-Beam Guardrail

POST-TENSION DETAILS

- 21801 Post-Tensioning Vertical Profiles
- 21802 Post-Tensioning Anchorage Protection
- 21803 Post-Tensioning Anchorage and Grouting Details

FENDER SYSTEM DETAILS

- 21930 Fender System - Prestressed Concrete Piles

PRESTRESSED CONCRETE PILE SYSTEM DETAILS

- 22600 Notes and Details for Square CFRP & SS Prestressed Concrete Piles
- 22601 Square CFRP and SS Prestressed Concrete Pile Splices
- 22612 12" Square CFRP and SS Prestressed Concrete Pile
- 22614 14" Square CFRP and SS Prestressed Concrete Pile
- 22618 18" Square CFRP and SS Prestressed Concrete Pile
- 22624 24" Square CFRP and SS Prestressed Concrete Pile
- 22630 30" Square CFRP and SS Prestressed Concrete Pile
- 22654 54" Square CFRP and SS Prestressed Concrete Pile
- 22660 60" Square CFRP and SS Prestressed Concrete Pile

FY 2016-17 REVISIONS

Index No.	Sheet No.	Description
STANDARD ABBREVIATIONS		
1	1 of 4	Added CFRP = Carbon Fiber Reinforced Polymer.
STANDARD SYMBOLS		
2	3 of 4	Added/Changed line types to support Engineering and CADD's release of SS4.
DRAINAGE		
201	4 of 5	Added Note #5 for Fiber Reinforced Concrete to the NOTES FOR PRECAST OPTIONS & EQUIVALENT REINFORCEMENT SUBSTITUTION.
CURBS, CONCRETE PAVEMENT AND SIDEWALKS		
305	1 of 4	Updated Sheet for clarification; Added detail showing Longitudinal Joint and Transverse Joint lines.
TRAFFIC RAILINGS		
400	3 of 26	Changed Call Out for Clear Zone reference to PPM.
	16 of 26	Changed Note for the LOCATION AT CURB & GUTTER SECTIONS DETAIL L reference to PPM.
403	All	Deleted Index.
410	25 of 25	Corrected the Bar 5C & 5D total height measurement.
415	3 of 7	Changed the CLEAR ZONE WIDTHS FOR WORK ZONES, reference to PPM.
430	1 of 2	Changed GENERAL NOTES #6, #8 and #9.
TRAFFIC CONTROL THROUGH WORK ZONES		
600	3 of 12	Changed the CLEAR ZONE WIDTHS FOR WORK ZONES note reference to the PPM.
	5 of 12	Added new Note #1 to the TEMPORARY SIGN SUPPORT NOTES.
	12 of 12	Deleted all references to, and requirements for, Class A RPMs.
603	All	Rearranged for clarification; Changed General Note #3 to require Temporary Raised Rumble Strips at 55mph and above; Changed spacing of Temporary Raised Rumble Strips and the associated additional signs; Deleted details and notes for AFADs (information will now be in the Specifications and APL Drawings).
612	1 of 1	Added Work Zone Sign callouts to signs located in the median.
613	1 of 2	Corrected the Note for "Lateral Transitions..." in Table II.
619	1 of 2	Clarified GENERAL NOTE #5 is for non-emergency conditions.
ROADSIDE SAFETY		
700	1 of 2	Changed ROADSIDE TERRAIN FIGURE 1 Note reference to PPM.
	2 of 2	Changed GENERAL NOTE #2 reference to PPM.

Index No.	Sheet No.	Description
FENCING AND PEDESTRIAN RAILINGS		
851	1 of 3	Added 4-bolt option as dashed lines in Scheme 1.
852	1 of 8	Added "HSS1.500x0.125" Handrail Joint/Splice Sleeve option to TABLE 1.
861	1 of 3	Added 4-bolt option as dashed lines in Scheme 1.
862	1 of 9	Added "HSS1.500x0.125" Handrail Joint/Splice Sleeve option to TABLE 1.
870	1 of 5	Added "1.50 OD x 0.125 Wall" Handrail Joint/Splice Sleeve option to RAILING MEMBER DIMENSIONS TABLE.
880	1 of 5	Added "HSS1.500x0.125" Handrail Joint/Splice Sleeve option to RAILING MEMBER DIMENSION TABLE.
NOISE AND PERIMETER WALL SYSTEMS		
5200	1 of 16	Added Notes 1.A and 1.B for approved Producer prestressed post options.
SIGNING AND MARKINGS		
11200	All	Reorganized for clarification.
	1 of 3	Moved General Notes into the IDS; Changed Tables; Clarified and Corrected all details.
	2 of 3	Changed Foundation Elevation Notes; Clarified the Base Connections Details, Details B and Foundation Elevation call outs; Changed the Assembly Of Base Connection Notes.
	3 of 3	Deleted the SHIM Column for the Table; Changed the rotation of the Stiffener Plate; Changed Table.
11300	1 of 1	Changed the U-Bolt call out in the Wind Beam Connecting Detail to read 1/2" Ø U-bolt With Double Nuts and Flat Washer...; Changed the GENERAL NOTES.
11310	All	Reorganized for clarification.
	2 of 5	Added Structural to the Grout Pad call out.
	3-5 of 5	Removed Abbreviation Note.
11860	4 of 9	Deleted Note #1.B.
	6 of 9	Changed the U-Bolt call out in the Wind Beam Connecting Detail to read 1/2" Ø U-bolt With nut, Flat Washer and Lock Washer.
17346	13-14 of 14	Changed the title of the drawing.
ROADWAY LIGHTING		
17504	1 of 2	Deleted "Service Conductors Shall" call out from the AERIAL FEED DETAIL A.
17505	2 of 2	Added DETAIL 'B' (Hanger Pipe Connection).
17515	2 of 8	Added ASTM Alloy 6061-T6 to Note 3.A.

Index No.	Sheet No.	Description
TRAFFIC SIGNAL AND EQUIPMENT		
17700	1 of 1	Clarified that the Pearock/Crushed Stone to be placed under the Pull Box only.
17727	2 of 2	Deleted the Pivotal Hanger Assembly; Changed the Upper and Lower Reinforcement Plates to Tri-Stud Wire Clamps; Changed the Message Cable Clamp; Deleted Notes #1, 3-5 and Added new note; Deleted the Vertical Clearance Information; Changed Bottom Tether Clamp to a Tri-Stud Clamp.
17745	2 of 6	Changed Note #1 and SECTION A-A to "Structural" Grout Pad.
17781	1 of 2	Changed GENERAL NOTE #3.
INTELLIGENT TRANSPORTATION SYSTEMS (ITS)		
18111	4 of 4	Changed Pole Top Plate diameter and bolt circle for 70' tall pole.
18113	3 of 4	Deleted the Dormant Strand, Changed the location of the #4 and #5 Rebar and Deleted the Active and Dormant text in the Strand spacing callouts for STRAND PATTERN 1 AND 2.
TEMPORARY DETOUR BRIDGES		
21210	1 of 4	Clarified Notes 2, 3, 6 & 8; Revised Note 7.
	2 of 4	Revised Conduit stub-out details.
	3 of 4	Added Conduit stub-out detail. Clarified Notes 2, 3 & 4; Deleted Note 5.
	4 of 4	Revised Conduit stub-out details.
21600	3 of 7	Remove 7 3/4" dimension and AB307 Transom DW Heavy.
21610	1 of 3	Changed to triple bearing configuration.
21620	1 of 2	Changed to triple bearing configuration.
21630	2-3 of 3	Changed to triple bearing configuration.
PRESTRESSED CONCRETE PILES		
22600	All	New Index
22601	All	New Index
22612	All	New Index
22614	All	New Index
22618	All	New Index
22624	All	New Index
22630	All	New Index
22654	All	New Index
22660	All	New Index