

**Section 105 Aesthetic Design**

**105.7**

*Removed the list because all facilities have general aesthetic guidelines.*

**Section 211 Limited Access Facilities**

**211.1**

*Revised the tolling requirements to include the CFX Tolling Design Details.*

**211.2.3**

*Relocated the current paragraph for 211.2.3 to after this section based on the FDM changes.*

**211.3**

*Updated to include when to use median barriers on CFX facilities.*

**Section 230 Signing and Pavement Marking**

**230.1**

*Added the apostrophe to the MUTCD approved abbreviation for International: Int'l*

**230.4**

*FDM now requires the red reflective strips for Wrong Way and Do Not Enter signs. Therefore, the requirement can be removed from the CFXDG.*

**Section 231 Lighting**

**231.2**

*Clarified illumination level and referenced the lighting details.*

**231.2.2**

*Clarified when additional analysis will be required for light spill.*

**231.7**

*Light spill calculations were added to the LDAR requirements.*

## **231.8**

*Updated the Underdeck Wall Mount Description to address universal shielding.*

*Updated all sections to replace Dali 2/4 iDriver with 0-10v Dimming Driver.*

## Section **252**      **Drainage Design Documentation**

### **252.10**

*Updated the references to current criteria location.*

### **252.12**

*Added Environmental Resource Permitting section and adjusted the next section numbers.*

## **Appendices**

*Clarified where the hydraulic worksheet should be included.*

## Section **262**      **Retaining Walls**

### **262.3**

*Added new section and CFX Exhibit for retaining wall concrete gutter.*

## Section **264**      **Noise Barriers**

*Updated all references of Noise Walls in entire section to Noise Barriers.*

### **264.2.2.1**

*Relocated existing information to this section since the topic is considered a feasibility concern.*

## Section **301**      **Sequence of Plans Preparation**

### **301.2.3**

*Added Baseline of Construction to the Lighting Plan requirements.*

*Added Light Spill calculations to the Lighting Design Documentation requirements.*

*Updated Toll Facility Plans requirements.*

#### **301.2.4**

*Added Light Spill calculations to the Lighting Design Documentation requirements.*

*Updated Toll Facility Plans requirements.*

#### **301.3.3**

*Added Baseline of Construction to the Lighting Plan requirements.*

### Section **304**                      **Summary of Pay Items**

#### **Exhibit 304-1**

*Updated exhibit.*

### Section **307**                      **Summary of Quantities**

#### **307.1**

*Added pay item numbers and prices for the ArcGIS licenses.*

### Section **315**                      **Drainage Structures**

#### **315.2**

*Updated Note 2 to reference the General Notes Sheet for CFX pipe material options.*

### Section **325**                      **Signing and Pavement Marking Plans**

#### **325.4.1**

*Updated Single Post Barrier-Wall (Bridge) mounted pay item number to be 0700-001-ABB, to align with FDOT pay item number.*

### Section **328**                      **Intelligent Transportation Systems Plans**

#### **328.6.1**

*Clarified when to use ITS and Lighting Cable Locater in the plans.*

**Section 329 Landscape Plans**

**329.4**

*Deleted reference to FPID and Federal Aid projects.*

**Exhibit 329-1**

*Updated CFX Exhibit 329-1.*

**Section Lighting Details**

**A-2**

*Updated utility contacts.*

**A-8**

*Note added to address universal shields.*

**A-9**

*Added a column for milepost numbers and changed the verbiage from mounting height to arm length on the tilt angle detail.*

**C-1**

*Changed the verbiage from Mast Arm Upright to Overhead Sign Structure Upright on the Overhead Sign Lighting Detail.*

**E-1**

*Updated the callout and reference for the concrete apron on the sign light wiring detail.*

**E-2**

*Added direction to install master locks and provide keys for the LED driver cabinet. (Pay item note for the master lock was added to sheet A-3, note 11.)*

**E-3**

*Removed the ORIENTATION detail due to redundancy.*

*Changed the verbiage from mounting height to arm length on the tilt angle detail.*

#### **F-1**

*Added details for installation of the wall packs.*

#### **F-2, F-3, F-4**

*Note added to address what the contractor needs to submit for approval for conduit installation.*

#### **G-1, G-2, G-3**

*Note 14 updated.*

### Section

## **Signing Details**

### **General**

*Removed references to Cash/Coin collection, including signs, pavement markings, and gantries/plazas.*

*Added sign design for AET sign panels and FLEX Lanes.*

*Reorganized and deleted redundancy.*

*Added sheets for approach signing from arterials.*

### Section

## **Signalization Details**

### **Sheet 6**

*Added a note to allow designers to increase the 10' max spacing between the internally illuminated sign.*

### Section

## **Tolling Design Details**

### **A-1**

*Several title changes on the sheets.*

### **B-2, B-4**

*Updated Note 4a, 5c, 5d, and 6c. Updated Toll Site Construction Phasing General Notes.*

### **C-1, C-2**

*Added notes to the EOR.*

*Added Toll Site Area Limits*

*Added Alternate location and rotation for proposed power meter and associated pull boxes.*

### **D-1, D-2**

*Added Notes, 4, 5, and 6.*

*Added information for the Metal Free Zone.*

### **E-4, E-5**

*Updated notes to the EOR and reference notes.*

*Adjusted location of various pull boxes for consistency throughout the sheets.*

*Added a light pole near the maintenance parking space.*

### **F-2**

*Updated Note 3; added Note 9.*

*Clarified the use of crushed stone and welded wire reinforcement.*

### **G-1, G-2**

*Revised/Deleted several Key Notes. Updated General Notes.*

*Updated the Front and Rear Elevations, Top and Side Views, and the Cabinet Mounting Detail.*

### **H-1A, H-2, H-3**

*Updated the Plan and Side Elevation, Title Blocks, Truss Sections, and Details.*

**H-1B, H-4, H-5A, H-5B, H-6, H-7**

*New sheets.*

**I-2, I-3, I-4, I-6**

*Added light pole near maintenance parking space for consistency.*

*Updated the typical truss chord splice elevation and added a typical detail for mainline truss chord splice elevation.*

*Updated Key Notes, Notes to EOR, and Riser Diagram.*

*Remove Bare Grounding Connection from Grounding Conduit Bushing to Unistruts*

*Add Bare Grounding Connection from Ground Bus Bar to Unistruts*

**I-11**

*Updated the Title Block and the Loads Table. Added Notes 1-3.*

**I-12**

*New Sheet.*

**TCP-1, 2, 3**

*Added Note 4 and updated Exhibit B.*

Section

**Intelligent Transportation Systems Details**

**A-1**

*General note 31 removed, notes renumbered.*

**A-2**

*Note added to reference ITS Specification 631 for updated FOMH Inspection requirements. Note added for updated fiber pull box spacing and conduit bends. Note adjusted to update CFX Analyst title. Note adjusted to reflect updated peak hours for testing of live fibers.*

**A-3**

*Note to EOR added to address updated device naming convention.*

**A-5**

*Pay items 636-021-000 and 636-022-000 added for fiber optic manhole stubout.*

## **A-11**

*Notes referencing a CFX approved equivalent removed.*

## **C-1**

*Changed required minimum distance from FOMH to approach slab. FOMH size changed from 4'x4' to 4'x6.5'x6.5'. Linestyles updated to match CFX Legend.*

## **D-2**

*Notes adjusted so that all conduits now extend a minimum of 18" into the manhole to allow for contraction. Additional note added to clarify that no conduit should be cut back to the edge of the manhole. Manhole sleeve locations adjusted to accommodate conduit extending into the manhole.*

## **D-3**

*Notes adjusted so that all conduits now extend a minimum of 18" into the manhole to allow for contraction. Additional note added to clarify that no conduit should be cut back to the edge of the manhole. Manhole sleeve locations adjusted to accommodate conduit extending into the manhole.*

## **D-4**

*Notes adjusted so that all conduits now extend a minimum of 18" into the manhole to allow for contraction. Additional note added to clarify that no conduit should be cut back to the edge of the manhole. Note added to clarify the inner duct being routed through the doghouse. Manhole sleeve locations adjusted to accommodate conduit extending into the manhole.*

## **E-1**

*Note added to reference ITS Specification 631 for updated FOMH Inspection requirements.*

## **E-3**

*Added concrete detail that includes an electrical pull box and concrete service pole.*

## **E-4**

*Note 4 removed. Note to EOR added concerning the manhole stubout pay items.*

## **F-1**

*Note adjusted to reference the updated CCTV lowering device model number.*



### **G-1, G-2**

*Note 6 added to address where to locate added grounding requirements details.*

*Added MTS and PGR, with callouts, to the one line and riser diagrams at DMS sites.*

### **G-3**

*Detail sheet added for the Arc Flash label and table.*

### **J-3**

*Note 5 updated to include SPD.*

*Note 19 added to address where to locate added grounding requirements details.*

### **J-4, J-5**

*Note 3 added to address if the grounding array's 120° requirement is not attainable*

### **J-8**

*Note 3, 8, and 9 updated.*

*Added bonding grounding jumper to H-Frame and MCB.*

*Note 16 added to address the new bonding grounding jumper and installation details.*

### **J-9, J-10, J-12, J-13**

*Diagram updated to show strut channel(s) and keynote #9.*

### **J-11**

*Added bonding grounding jumper to H-Frame and MCB.*

*Note 17 added to address the new bonding grounding jumper and installation details.*

### **J-10A, J-13A**

*Detail created from J10 and J13 to show added MTS and PGR to 3-line walk in DMS LHUBs only. Indicator light added.*

### **J-14**

*Added bonding grounding jumper to H-Frame and MCB.*

*Note 1 added to address the new bonding grounding jumper and installation details.*

### **J-14A, J-14B**

*Detail created to show MTS and PGR at Local Hub with DMS sites from a front view and from a bird's eye view.*

*Note 1 added to address the new bonding grounding jumper and installation details. Note 2 added to clarify the required position of Manual Transfer Switch indicator light.*

### **K-1**

*Note added so that each antenna shall be attached to a single hanger assembly.*

### **L-1**

*Notes and ADMS cabinet detail changed to require only 2 batteries with only a half shelf.*

### **L-2**

*Type 334 cabinet revised to show heat shield and ventilation system.*

### **L-2, L-3**

*Note changed to require only 2 batteries with only a half shelf.*

### **L-8, L-9, L-10, L-11**

*Wiring diagram now shows outlet and RPM directly plugging in.*

### **L-13**

*Sheet updated to include latest Power Monitor detail based on information from the manufacturer.*

### **O-1, O-2, O-3, O-4**

*Detail updated to reflect model number and name of the Wrong Way Driving sign.*

### **O-6A**

*Detail added for typical ramp WWD LiDAR detection layout.*

### **O-7**

*Detail updated to reflect that antenna is no longer required on cabinet.*

### **O-8**

*Removed cellular antenna. Note 4 removed.*

**O-9, O-10**

*Reference to previous Wrong Way Driving sign removed. Disconnect removed from secondary ancillary cabinet.*

**P-1, P-2, P-3, P-4**

*U-Bolt label for VSL has been adjusted to include mounting options designed by engineer.*

**P-12**

*U-Bolt label for VSL has been adjusted to include mounting options designed by engineer.*

**P-13, P-14**

*Flex Lanes cabinet has been resized to a custom cabinet. Note to EOR added to coordinate with CFX GSC for detail updates. Note added for UPS battery disconnect.*

**P-15**

*Type 334 cabinet revised to show heat shield and ventilation system.*

**P-23**

*Mile marker sticker detail added.*