Session 18

Charles Boyd

FL. Dept. of Transportation

Standards Migration & Standards Crosswalk

Topic Description

The migration of the Structures Standards into the Design Standards will be presented and discussed. The use of CADD cells in lieu of Structures Semi-Standards will be explained along with procedures to modify Design Standards when necessary.

Speaker Biography

Charles Boyd is a Senior Structures Design Engineer working in the FDOT Structures Design Office, Tallahassee, FL. Charles received a BSCE degree from The Citadel in 1983. He has spent his entire professional career working in the Structures Design Office where he has focused on the design and detailing of bridges and the production of plans, standards and specifications.

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Structures Standards Migration

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Introduction

- Structures Standard Drawings, Topic No. 625-020-300, have been phased out:

  Standard Drawings

  Semi-Standard Drawings

  Instructional Standards

Where'd they go?

- Standard Drawings →
  2006 Design Standards w/ Interims
- Semi-Standard Drawings →
  CADD Cells
- Instructional Standards →
  Structures Manual Vol. 3

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2006 Design Standards

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS

FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM

2006

TOPIC NO. 625-010-003

ENGLISH UNITS

Approved For Use On Federal Aid Projects

For James E. St. John, Division Administrator

William N. Nichols, State Structures Design Engineer

Brian Blanchard, State Roadway Design Engineer

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

- With Interims posted on Internet…

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Standards Cross Reference

In Design Standards Book, “Cover & Introduction” section:

INDEX NUMBER CHANGE REFERENCES AND QPL INFO

2006 DESIGN STANDARDS INDEX NUMBER	2004 DESIGN STANDARDS INDEX NUMBER	STRUCTURES STANDARDS	COMMENTS
[illegible]	301 thru 301		No Number Change
302	302	9020 & 9025	
303 thru 310	303 thru 310		No Number Change
400 thru 410	400 thru 410		No Number Change, but removal of proprietary End Treatments were removed and placed on the QPL
412			Interim 412 Low Profile Barrier moved to 2006 Design Standards
	413		Placed on QPL
415	415	715	
	416		Placed on QPL
[illegible]	417		No Number Change
420		700	
[illegible]		[illegible]	
422		720	
423		730	
424		740	
425		750	
	432 thru 441		Placed on QPL
460	460		No Number Change
470		771	
471		772	
472		773	
473		774	
474		775	
475		776	
476		777	
480		781	
481		782	
482		783 & 784	
483		785	
490		1000	
500 thru 560	500 thru 560		No Number Change

☺ Thanks to Helen Dull…

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How Does it Work?

- “Structures” Standards are no longer included in plans
- See PPM Volume 2 Section 3.8 for instructions on Design Standards & Interims references on Key Sheet
- Reference Design Standard Index Nos. in Plans per Structures Temporary Design Bulletin C06-02:

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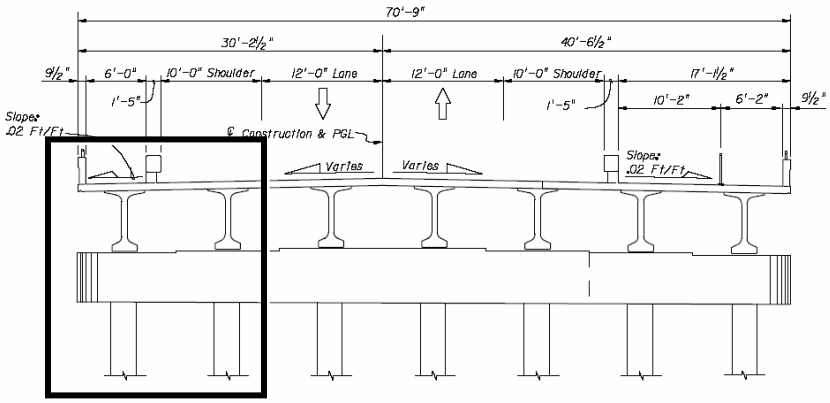
Plan References to Standards



Typical Section Thru Bridge

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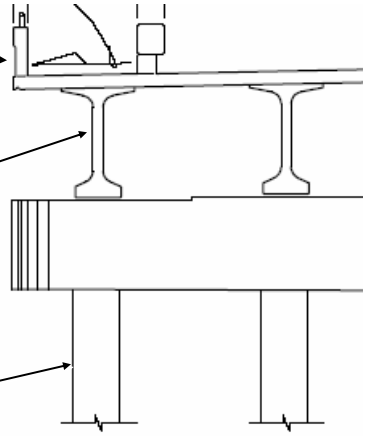
Plan References to Standards

Pedestrian Railing, See Sheet B1-50

72" Florida Bulb T Beam, Design Standards Index 20172, Typ.

30" Square Prestressed Concrete Pile, Index 20630, Typ.



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CADD Cells

- Data table cells are available from the Structures SiteMenu under Cells>Tables-Notes

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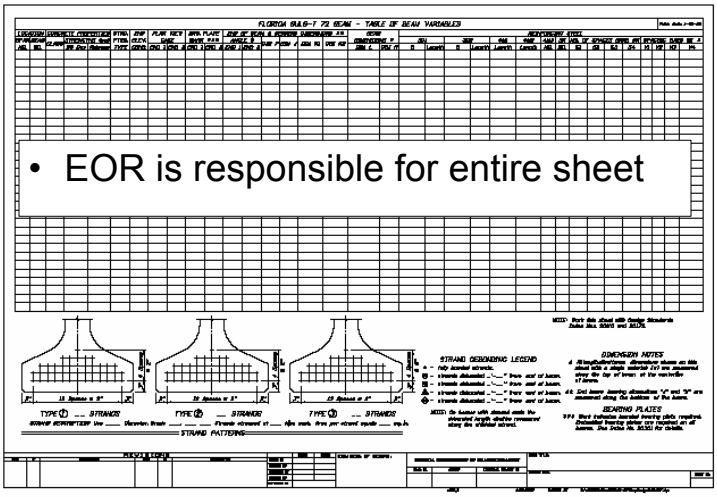
Large Tables

- Place border, fill out table and include in Plans



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Small Tables

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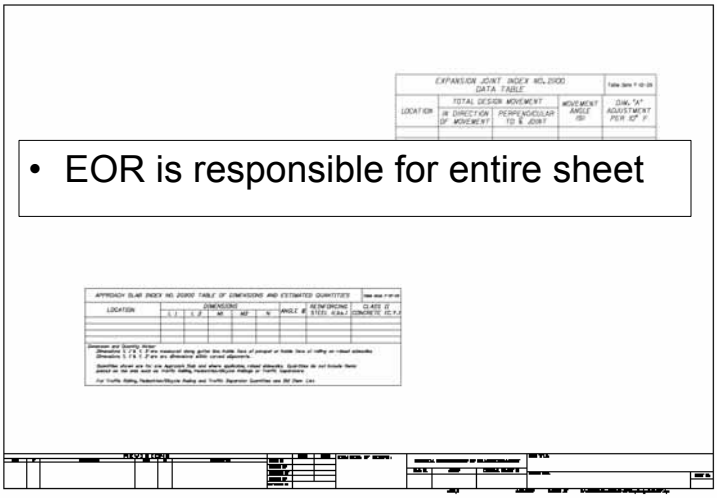

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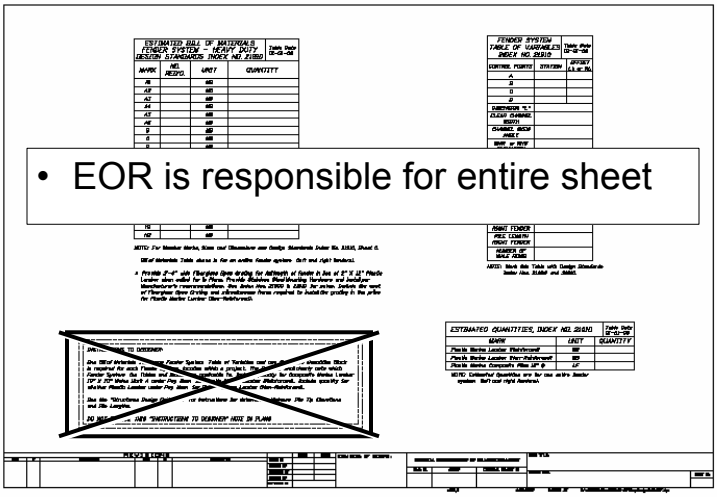
Multiple Tables

- Place border, fill out table and include in Plans



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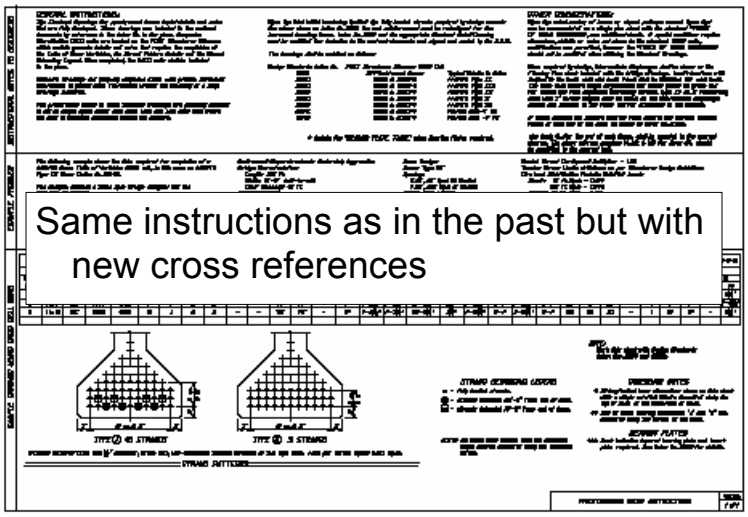
Instructions

- See Structures Manual Volume 3:



Same instructions as in the past but with new cross references

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How to Modify a Standard Design

- Download the necessary files from the Structures Website
- Convert the files to V8 if necessary (symbology, levels, etc.)
- Place a standard border around the drawing and complete the title block

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How to Modify a Standard Design

- Make necessary changes including changing cross references on the drawing and any associated cells
- Sign and seal the drawings as project specific designs
- Include the drawings in the plans as if there were not a Design Standard available for the component

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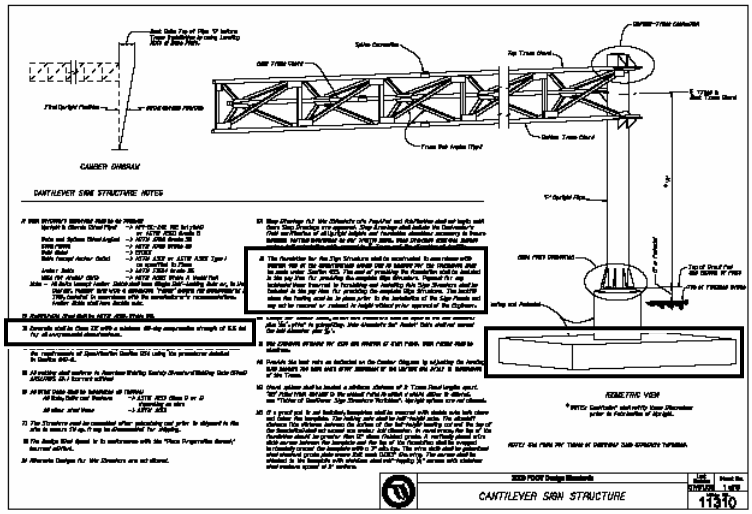
How to Modify a Standard Design



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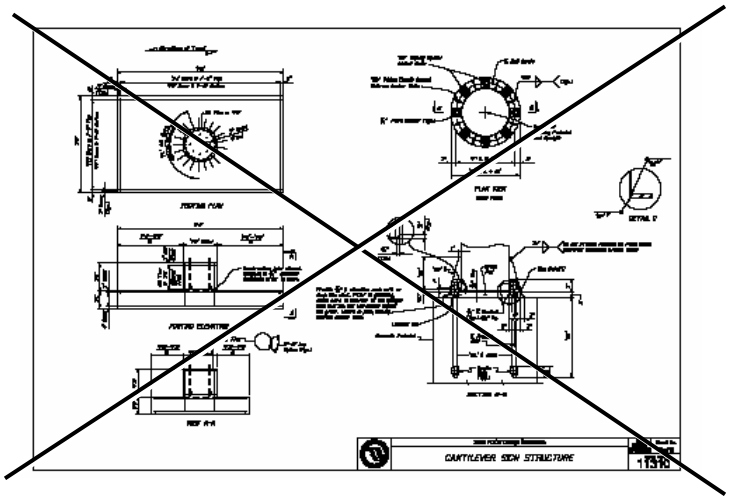
How to Modify a Standard Design



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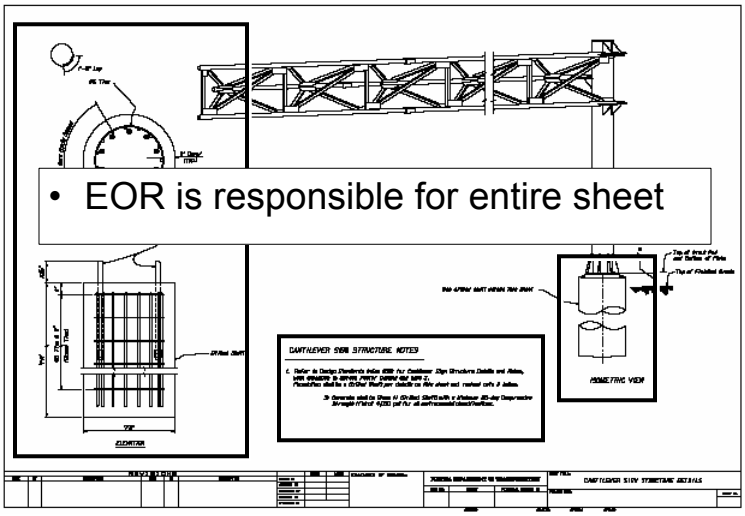
How to Modify a Standard Design



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☺Thanks to John Danielsen…

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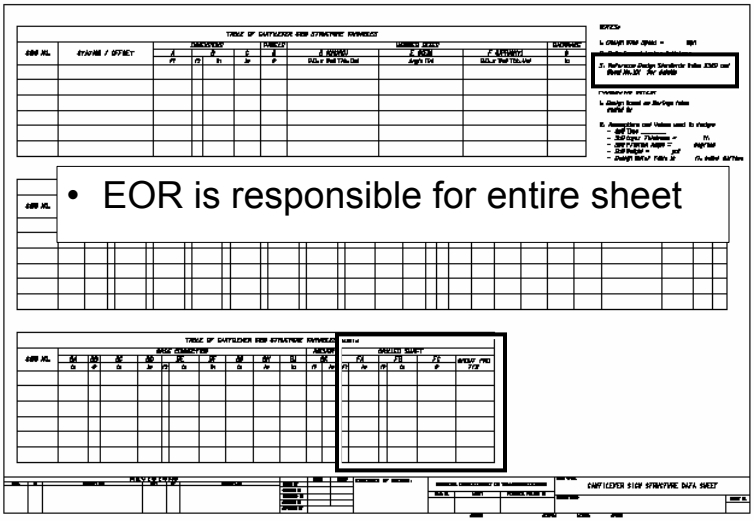
How to Modify a Standard Design



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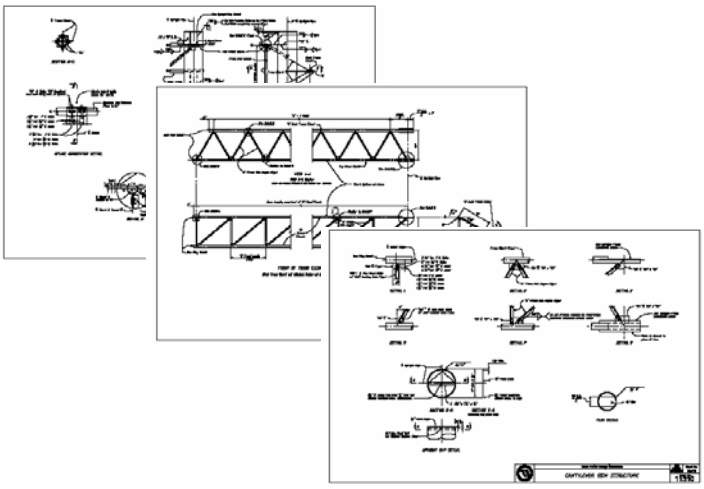
How to Modify a Standard Design



Where to Get More Information

- Comments or questions contact:

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