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Chapter 10 - Environmental Management Standards

CADD Production Criteria Handbook

10.1 GENERAL

The Environmental Management Office has complete responsibility for the project development phase. The intent of this is to give latitude and discretion in performing project analysis, project development, engineering, public involvement and environmental required tasks while maintaining the necessary level of CADD standards for the products of Environmental Management.

The Project Development & Environmental Clearance process is oriented toward presenting the project to the permitting & regulatory agencies, politicians & the general public in a format which is clear & easy to understand. Production plans do not become important until after Location & Design Concept Acceptance is obtained. We want as much of our product to be useful to the plans development process as possible, but public presentation is our primary concern.

10.2 STANDARD FILE NAMES

Florida Department of Transportation (FDOT) utilizes standard naming conventions for all of its files. Some of the automation implemented in various tools provided by FDOT depends on naming conventions being met. More importantly, the naming convention confers information to the downstream customer of the data.

Standard file names should follow this format: AAAABB##.ex***t***
Where **AAAA** = *abbreviated file description*, **BB** = *Discipline Denotation, ##* =*Sequence number.*

Note: Please see CADD Production Criteria Handbook (CPCH) Chapter 4 for more information.

The following table defines the Environmental Management File Name Standards in regards to FDOT Projects with the understanding the each file name will include sequence numbering. Standard model names are provided in the following table.

CAUTION: GEOPAK searches across all design files models for elements. Example: if there are pattern lines in *more than one* model, GEOPAK locates all of them.

File Type	File Name	Model Name	File Description	Rule File	Seed File	Critical File
Borders & Sheets	BDBREM.dgn	Default	Border Sheet Reference File for Bridge Hydraulics Sheet	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDPLEM.dgn	Default	Border Sheet Reference File for Plan Sheet	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDPPEM.dgn	Default	Border Sheet Reference File for Plan & Profile Sheet	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDPREM.dgn	Default	Border Sheet Reference File for Profile Sheet	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDXSEM.dgn	rdxsrd	Border Sheet Reference File for Cross-Section Sheet	rdxsrd.rul	$(MX_SEEDIR)fdotseedxs.dgn	X
Borders & Sheets	GNNTEM.dgn	Default	General Notes	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	LDPREM.dgn	Default	Lateral Ditch Plan / Profile Sheet	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	

File Type	File Name	Model Name	File Description	Rule File	Seed File	Critical File
Borders & Sheets	PLANEM.dgn	Default	Plan Sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PLPREM.dgn	Default	Plan and Profile Sheets	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PRDSEM.dgn	Default	Project Profile Layout	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PROFEM.dgn	Default	Profile Sheets	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Clip Borders	CLIPEM.dgn	Default	Clip Borders	cliprd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Clip Borders	MTPLEM.dgn	Default	Motif file for plan sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Clip Borders	MTPREM.dgn	Default	Motif file for profile sheets	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Cross Sections	LDXSEM.dgn	Rdxsrd	Lateral Ditch Cross-Sections	rdxsrd.rul	$(MX_SEEDIR)fdotseedxs.dgn	X
		Pattrd	Lateral Ditch Pattern Lines			
		Xsshrd	Lateral Ditch Shapes			
		Rdxsrd_shg	Lateral Ditch Cross Section Sheets			
Cross Sections	PDXSEM.dgn	Rdxsrd	Pond Cross-Sections	pdxsrd.rul	$(MX_SEEDIR)fdotseedxs.dgn	X
		Pattrd	Pond Pattern Lines			
		Xsshrd	Pond Shapes			
		Rdxsrd_shg	Pond Cross Section Sheets			
Cross Sections	RDXSEM.dgn	Rdxsrd	Roadway Cross-Sections	rdxsrd.rul	$(MX_SEEDIR)fdotseedxs.dgn	X
		Pattrd	Roadway Pattern Lines			
		Xsshrd	Roadway Shapes			
		Rdxsrd_shg	Roadway Cross Section Sheets			
Existing Topography	TOPOEM.dgn	Default	Topography - Existing (Utilities or Drainage not included)	topord.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Key Sheets	KEYSEM.dgn	Default	Key Sheet	keysht.rul	$(MX_SEEDIR)fdotseedkeymap.dgn	
Project Network Control	PNCSEM.dgn	Default	Survey Project Network Control Sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	ALGNEM.dgn	Algnrd	Alignment Layout	algnrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	BKSWEM.dgn	Default	Back of Sidewalk Profiles	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	CURCEM.dgn	Default	Curve or Coordinate Data Sheet	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	DSGNEM.dgn	Default	Proposed Design	dsgnrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	X
Proposed Design	DSPFEM.dgn	Default	Proposed Profile	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	GCTREM.dgn	Default	Contours 2D	dtmrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	GDTMEM.dgn	Default	Digital Terrain Model / TIN Model - 3D	dtmrd.rul	$(MX_SEEDIR)fdotseed3d.dgn	
Proposed Design	INTDEM.dgn	Default	Intersection / Interchange Details	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	

File Type	File Name	Model Name	File Description	Rule File	Seed File	Critical File
Proposed Design	INTPEM.dgn	Default	Intersection / Interchange Profiles	plprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	MITGEM.dgn	Default	Mitigation Areas	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	PDPLEM.dgn	Default	Pond Design	drprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	PLAYEM.dgn	Default	Project Layout Sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	QTDSEM.dgn	Default	Quantity Computation Shapes / Calculations	qtdsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	X
Proposed Design	QUANEM.dgn	Default	Quantity Computation Details	qtdsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	X
Proposed Design	RWDTEM.dgn	Default	Right of Way Details for Roadway	dsgnrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	SCGREM.dgn	Default	Selective Clearing and Grubbing Sheet	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	SWPPEM.dgn	Default	Storm Water Pollution Prevention Plan	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	TEXTEM.dgn	Default	Text Labels & Miscellaneous Descriptions	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	WETLEM.dgn	Default	Wetlands Delineation Sheet	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Special Details	SPDTEM.dgn	Default	Special Details Sheet	spdtrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	BRHYEM.dgn	Default	Bridge Hydraulics Recommendation Sheet	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	BXCLEM.dgn	Default	Box Culvert Wing Wall Design and Special Details	drdtrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	CESSEM.dgn	Default	Summary of Pay Item Sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	SUMQEM.dgn	Default	Summary of Quantities Sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCDSEM.dgn	Default	Traffic Control Design	tcdsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCDTEM.dgn	Default	Traffic Control Detail Sheet	tcdsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCGNEM.dgn	Default	Traffic Control General Note Sheets	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCPLEM.dgn	Default	Traffic Control Plan Sheets	tcdsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Typical Sections	TCTYEM.dgn	Default	Traffic Control Typical Section Sheets	tcdsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Typical Sections	TYPDEM.dgn	Default	Typical Data Sheet	typdrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Typical Sections	TYPSEM.dgn	Default	Typical Section Sheets and Details	typsrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Utilities	UTEXEM.dgn	Default	Utilities - Existing	utexrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	
Utilities	UTPREM.dgn	Default	Utilities - Proposed	utprrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	X
Verified Utilities	SBVHEM.dgn	Default	Summary of Verified Utilities (2D)	planrd.rul	$(MX_SEEDIR)fdotseed2d.dgn	

10.3 RESOURCE FILES

Engineering/CADD Systems Office (ECSO) provides standard resource files for MicroStation with the FDOT CADD software. If a custom line style or font is needed, it must either be embedded in the active design file or the corresponding resource file must be copied to the \SYMB sub-directory of the FDOT project directory structure and included as part of the electronic delivery of the project. The justification for the non-standard line style or font must be noted in the journal file.

10.4 PROFESSIONAL'S ELECTRONIC DATA DELIVERY SYSTEM (PEDDS)

PEDDS shall be used to Secure and Authenticate project data. When projects are received, the FDOT authenticates the data on the delivered CD. Each time data is transmitted to or received by FDOT the data shall be secured and authenticated. PEDDS shall also be used to authenticate any project specific data received as part of a delivery from an outside source or discipline. For example, an electronic delivery to Roadway from Survey or EMO should be secured and authenticated. Roadway shall electronically secure all files for delivery.

10.5 SYMBOLOGY STANDARDS

Symbology Standards that apply to FDOT Projects are set up under a listing of Standard Level Names with specific ByLevel Color, Style and Weight attributes. These levels are grouped under specific Rule Files which are associated to each valid Standard Filename of each Discipline for the purpose of performing the Quality Control check for FDOT Standard compliancy of each FDOT project design file. Section 10.2 of this chapter provides for the complete Standard File Name listing with associated Rule File.

Note: Refer to Chapter 3 FDOT Resource and Support Files to review the Level names listing for each associated Rule File.

The following are the basic level naming convention rules to follow to always know what level an element should be placed on:

1) Level Names have 18 maximum characters.
2) The format of the name is: ***object_sv***

object (represents element type)_ ***s*** (represents state) ***v*** (represents view)

states	views
p (proposed)	**x** (cross section)
d (drafting element)	**r** (profile)
e (existing)	**p** (plan) (DTM is the same as plan)

Note: Level Names without including the **"_sv"** portion in the name are assumed proposed plan view elements.

Example: With this information one can determine the following about the Level names below:

gas- Proposed Plan view elements for "gas" related items
gas_ep- Existing Plan view elements
gas_px- Proposed cross section view elements