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Chapter 13 - ROADWAY STANDARDS

CADD Production Criteria Handbook

13.1 GENERAL

The "Contract Plans" depicts in detail the required construction work. This set consists of Roadway Plans (all sheets pertaining to roadway design) and component plans. The component plans are:

1. Signing and Pavement Marking
2. Signalization
3. Intelligent Transportation Systems (ITS)
4. Lighting
5. Landscape
6. Architectural
7. Structures

Computer Aided Design and Drafting (CADD) standards for component plans are defined in their respective chapters. Though many component plans use Roadway element symbology, the primary Roadway Symbology Standards shall not be modified for other discipline's use; except when specifically stated in that discipline's chapter.

For Example: Signal plans also show the proposed edge of pavement. The proposed edge of pavement symbology in the plan view shall be the same for all disciplines, except Right of Way. If other disciplines need to emphasize or de-emphasize specific elements, this can be accomplished using plot drivers with adjusted level symbology or pen tables.

In addition, the roadway plans may contain sheets which were prepared separately (perhaps by a sub-consultant) and incorporated into the roadway plans early in the design process (prior to the establishment of sheet numbering). As an option, these may be identified with the following prefixes and placed at the end of the numbered sequence of the roadway plans:

GR- # Soil Survey and Report of Core Borings normally associated with the roadway plans set (including miscellaneous structures but excluding bridges and walls)

CTL- # Project Survey Control Sheets

TR- # Tree Survey Sheets

UTV- # Verified Utility Locate Sheets

Refer to the Plans Preparation Manual (PPM), Volume II Chapter 3.6 at:

http://www.dot.state.fl.us/rddesign/PPMManual/PPM.shtm

13.2 STANDARD FILE NAMES

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

Standard file names should follow this format: **AAAABB##.ext**

Where **AAAA** = *abbreviated file description*, **BB** = *Discipline Denotation, ## =Sequence number.*

Note *Please see Chapter 5 of the document for more information.*

The following table defines the Roadway File Name Standards in regards to FDOT Projects with the understanding that each file name will include sequential numbering. If these file types are used by other disciplines, the first four characters of the file name shall remain the same, but the fifth and sixth characters shall reflect the discipline name. Each discipline chapter details their own Standard File Names.

Standard Model names are also provided, however, it is not mandatory to use more than the default model, with the exception of those listed in this table.

File Type	File Name	Model Name	File Description	Standard Rule	Seed File	Critical File
Borders & Sheets	BDBRRD.dgn	Default	Border Sheet Reference File for Bridge Hydraulics Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDDMRD.dgn	Default	Border Sheet Reference File for Drainage Map Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDPLRD.dgn	Default	Border Sheet Reference File for Plan Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDPPRD.dgn	Default	Border Sheet Reference File for Plan & Profile Sheet	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDPRRD.dgn	Default	Border Sheet Reference File for Profile Sheet	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	BDXSRD.dgn	Default	Border Sheet Reference File for Cross-Section Sheet	rdxsrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	GNNTRD.dgn	Default	General Notes	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	LDPRRD.dgn	Default	Lateral Ditch Plan / Profile Sheet	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PLANRD.dgn	Default	Plan Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PLAYRD.dgn	Default	Project Layout Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PLPRRD.dgn	Default	Plan and Profile Sheets	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PRDSRD.dgn	Default	Project Profile Layout	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Borders & Sheets	PROFRD.dgn	Default	Profile Sheets	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Clipping	CLIPRD.dgn	Default	Clip Borders	cliprd	$(MX_SEEDIR)fdotseed2d.dgn	
Clipping	MTPLRD.dgn	Default	Motif File for Plan Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Clipping	MTPRRD.dgn	Default	Motif File for Profile Sheets	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Cross Sections	AMGMRD.dgn	Default	Automated Machine Guidance Model (3D)	open	$(MX_SEEDIR)fdotseed3d.dgn	
Cross Sections	GKLNRD.dgn	Default	Geopak Lines for Existing Features	topord	$(MX_SEEDIR)fdotseed2d.dgn	

File Type	File Name	Model Name	File Description	Standard Rule	Seed File	Critical File
Cross Sections	LDXSRD.dgn	rdxsrd	Lateral Ditch Cross-Sections	rdxsrd	$(MX_SEEDIR)fdotseedxs.dgn	
Cross Sections	PDXSRD.dgn	Rdxsrd	Pond XSections,Pattern Lines & Shapes	pdxsrd	$(MX_SEEDIR)fdotseedxs.dgn	X
Cross Sections	RDXSRD.dgn	Rdxsrd	Roadway Cross-Sections	rdxsrd	$(MX_SEEDIR)fdotseedxs.dgn	X
		Pattrd	Roadway Pattern Lines			
		Xsshrd	Roadway Shapes			
		Rdxsrd _shg	Roadway Cross Section Sheets			
Drainage	DRDTRD.dgn	Default	Drainage Detail Sheet	drdtrd	$(MX_SEEDIR)fdotseed2d.dgn	
Drainage	DREXRD.dgn	Default	Drainage Structures - Existing	drexrd	$(MX_SEEDIR)fdotseed2d.dgn	
Drainage	DRFLRD.dgn	Default	Drainage Flood Data Form	drprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Drainage	DRMPRD.dgn	Default	Drainage Map	drmprd	$(MX_SEEDIR)fdotseed2d.dgn	
Drainage	DROMRD.dgn	Default	Drainage Optional Materials Tabulation	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Drainage	DRPRRD.dgn	Default	Drainage Structures - Proposed	drprrd	$(MX_SEEDIR)fdotseed2d.dgn	X
Drainage	DRXSRD.dgn	Rdxsrd	Drainage Structure XSections, Pattern Lines & Shapes	drxsrd	$(MX_SEEDIR)fdotseedxs.dgn	X
Existing DTM	GDTMRD.dgn	Default	Digital Terrain Model / TIN Model - 3D	dtmrd	$(MX_SEEDIR)fdotseed3d.dgn	
Existing Topography	TOPOEM.dgn	Default	Locations for Potential Environmental Concerns	topord	$(MX_SEEDIR)fdotseed2d.dgn	
Existing Topography	TOPORD.dgn	Default	Topography-Existing (Utility & Drainage not included)	topord	$(MX_SEEDIR)fdotseed2d.dgn	X
Key Sheets	KEYSRD.dgn	Default	Key Sheet	keysht	$(MX_SEEDIR)fdotseedkeymap.dgn	
Project Network Control	CTLSRD.dgn	Default	Survey Project Network Control Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	ALGNRD.dgn	Algnrd[1]	Alignment Layout	algnrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	BKSWRD.dgn	Default	Back of Sidewalk Profiles	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	CURCRD.dgn	Default	Curve or Coordinate Data Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	DSGNRD.dgn	Default	Proposed Design	dsgnrd	$(MX_SEEDIR)fdotseed2d.dgn	X
Proposed Design	DSPFRD.dgn	Default	Proposed Profile	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	GCTRRD.dgn	Default	Contours 2D	dtmrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	INTDRD.dgn	Default	Intersection / Interchange Details	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	INTPRD.dgn	Default	Intersection / Interchange Profiles	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	MITGRD.dgn	Default	Mitigation Areas	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	PDPLRD.dgn	Default	Pond Design	drprrd	$(MX_SEEDIR)fdotseed2d.dgn	

[1] The algnrd00.dgn model names should follow the format algnrd followed by the scale being used, algnrd40 for example. If more than one scale is needed for a project, then a separate model needs to be created for each scale.

File Type	File Name	Model Name	File Description	Standard Rule	Seed File	Critical File
Proposed Design	QTDSRD.dgn	Default	Quantity Computation Shapes / Calculations	qtdsrd	$(MX_SEEDIR)fdotseed2d.dgn	X
Proposed Design	QUANRD.dgn	Default	Quantity Computation Details	qtdsrd	$(MX_SEEDIR)fdotseed2d.dgn	X
Proposed Design	RWDTRD.dgn	Default	Right of Way Details for Roadway	rwdtrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	SCGRRD.dgn	Default	Selective Clearing and Grubbing Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	SWPPRD.dgn	Default	Storm Water Pollution Prevention Plan	plprrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	TEXTDR.dgn	Default	Text Labels & Miscellaneous Descriptions	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	TEXTRD.dgn	Default	Text Labels & Miscellaneous Descriptions	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Proposed Design	WETLRD.dgn	Default	Wetlands Delineation Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Special Details	CSINRD.dgn	Default	Concrete Slab Inventory	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Special Details	SPDTRD.dgn	Default	Special Details Sheet	open	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	BRHYRD.dgn	Default	Bridge Hydraulics Recommendation Sheet	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	BXCLRD.dgn	Default	Box Culvert Wingwall Design & Special Details	drdtrd	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	CESSRD.dgn	Default	Summary of Pay Item Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	SUMDRD.dgn	Default	Summary of Drainage Structures	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Summary Boxes / Tables	SUMQRD.dgn	Default	Summary of Quantities Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCDSRD.dgn	Default	Traffic Control Design	tcdsrd	$(MX_SEEDIR)fdotseed2d.dgn	X
Traffic Control	TCDTRD.dgn	Default	Traffic Control Detail Sheet	tcdsrd	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCGNRD.dgn	Default	Traffic Control General Note Sheets	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCPLRD.dgn	Default	Traffic Control Plan Sheets	tcdsrd	$(MX_SEEDIR)fdotseed2d.dgn	
Traffic Control	TCTYRD.dgn	Default	Traffic Control Typical Section Sheets	typsrd	$(MX_SEEDIR)fdotseed2d.dgn	
Typical Sections	TYPDRD.dgn	Default	Typical Data Sheet	typdrd	$(MX_SEEDIR)fdotseed2d.dgn	
Typical Sections	TYPSRD.dgn	Default	Typical Section Sheets and Details	typsrd	$(MX_SEEDIR)fdotseed2d.dgn	
Utilities	UTADRD.dgn	Default	Utility Adjustment Sheets	utadrd	$(MX_SEEDIR)fdotseed2d.dgn	
Utilities	UTEXRD.dgn	Default	Utilities - Existing	utexrd	$(MX_SEEDIR)fdotseed2d.dgn	
Utilities	UTPRRD.dgn	Default	Utilities - Proposed	utprrd	$(MX_SEEDIR)fdotseed2d.dgn	X
Verified Utilities	SBVHRD.dgn	Default	Summary of Verified Utilities (2D)	planrd	$(MX_SEEDIR)fdotseed2d.dgn	
Verified Utilities	UTVHRD.dgn	Default	Survey of Verified Utilities (3D version of utexrd.dgn)	utexrd	$(MX_SEEDIR)fdotseed3d.dgn	

13.3 SUPPORT ROADWAY EXCEL FILES

See Section 1 of *Computation Methods for Design, Construction & Final Estimates Handbook* located at:

http://www.dot.state.fl.us/construction/Manuals/finalest/newcompbook/HandbookMenu.shtm

File Type	File Name	File Description	Form	Excel File
Compbook	70005001.xls	Area Computations	700-050-01	$(FDOT_EXCEL_CBFILES)70005001.XLS
Compbook	70005002.xls	Curb & Gutter Computation	700-050-02	$(FDOT_EXCEL_CBFILES)70005002.XLS
Compbook	70005003.xls	Linear Computations	700-050-03	$(FDOT_EXCEL_CBFILES)70005003.XLS
Compbook	70005004.xls	Volume Measurement Items	700-050-04	$(FDOT_EXCEL_CBFILES)70005004.XLS
Compbook	70005005.xls	Lump Sum Quantities	700-050-05	$(FDOT_EXCEL_CBFILES)70005005.XLS
Compbook	70005006.xls	Weight Measure Computations	700-050-06	$(FDOT_EXCEL_CBFILES)70005006.XLS
Compbook	70005007.xls	Concrete Computations	700-050-07	$(FDOT_EXCEL_CBFILES)70005007.XLS
Compbook	70005008.xls	Piling Tabulation	700-050-08	$(FDOT_EXCEL_CBFILES)70005008.XLS
Compbook	70005009.xls	Linear with Components	700-050-09	$(FDOT_EXCEL_CBFILES)70005009.XLS
Compbook	70005010.xls	Pay Item Summary Sheet	700-050-10	$(FDOT_EXCEL_CBFILES)70005010.XLS