

***FDOTSS3 Design and 3D Modeling
Chapters 1 and 7
Existing Terrain and Features***



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Session Overview

- ◆ Existing Terrain
 - Importing surface files to terrain elements
 - Terrain Features

- ◆ Model Existing Features for Cross Sections:
 - Existing Pavements and Sidewalks
 - Copy from TOPORD01
 - Create Shapes
 - Clip Terrain
 - Apply\Edit Surface Templates
 - Existing Curbs
 - Copy Curb Back From TOPORD
 - Set Linear Features To Curb Back And Pavement Existing Edge
 - Set Existing Profile As Active
 - Apply Linear Template To Curb Back
 - Add Corridor Reference To Stretch Template

Session Overview

- Existing R/W lines and Utilities
 - Set Linear Features
 - Draw Existing Profile
 - Copy Profile At Offset
 - Set As Active
- ◆ View Cross Sections of Existing Features
 - View Window Properties
 - Navigation methods

FDOT Vol. 2 Chapter 18 PPM

18.2 Required Information

Existing ground lines shall be shown and the existing elevation at the centerline shall be noted just below the ground line at the centerline. The station number of the section shall be indicated opposite the ground line on the right side of the sheet and location baseline of survey indicated along the top and bottom of the sheet. Lines parallel to the baseline of survey should show station equivalencies to the baseline of survey.

The surface, as well as the below ground portions of existing features such as pavements, curbs and sidewalks, shall be shown.

Existing parallel underground utilities which lie within the horizontal limits of the project shall be shown along with verification notation for those locations which have been verified. Utilities that have been verified should be labeled as shown in **Section 14.3** of this volume. Small distribution or service lines need not be drafted.

Roadway Cross Sections

18-1

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Soil data and the groundwater table elevation from soil borings shall be shown on cross sections as described in **Section 17.2.1** of this volume. If it is determined that an organic or plastic material must be removed below the finished grading template, the lower limits of removal of organic or plastic material will be shown to determine the area and volume of subsoil excavation.

The proposed roadway template shall be shown. The proposed profile grade elevation shall be placed vertically or at an angle to the horizontal, just above the profile grade line. Special ditch elevations shall also be shown.

Station equations shall be shown, even though a cross section may not be plotted at that point. For ramp cross sections equivalent mainline stations shall also be shown.

The right of way limits shall be symbolically shown for each cross section.

QUESTIONS AND COMMENTS

Thank you for attending !

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