

FDOT Civil 3D Traffic Plans



FDOT Signs

(FDOT Signs Application)

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In This Webinar

- Go Over the FDOT Signs Interface
- Build, Place, & Label Sign Assemblies
- Save and Recall Sign Assemblies
- Guidesign Usage with Civil 3D 2014
- Tips and Tricks

Do's and Don'ts

- You can't use Entity Manager to place sign posts due to pay items being assigned via the sign XML file, but you can use EMX to place post blocks if no pay item is required.
- You can use AutoCAD copy commands to copy and place the same post (it will maintain the same pay item information that it already has attached)
- You can create groups for the multi-panel signs inside a drawing to make it easier to move (Hint- PICKSTYLE=1 is grouping turned on in AutoCAD)
- You can explode the Guidsign sheet information since it is not dynamic data

Application Layout

Program Name &
Version

Main Menu

Sign Assembly
file setup and
editing

Properties for
panels, posts,
location, and
labeling specs. &
placement
details

Specifications,
block preview
& details

FDOT Sign Assembly Tool 1.02.12

File Settings

Assembly: [dropdown] [refresh] [new] [print] [highlight] [diamond]

Panel Properties | Post Properties | Assembly Location | Labels

Panel Layout

Back Front

Preview

Total Area:

Set Panel Quick Save

Select Panel

☐ Use Custom Blocks

Application: [dropdown]

Panel Class: [dropdown]

Panel Name: [dropdown]

☐ Search All Panel Label Names

[input] [icon]

Panel Size: [dropdown]

State: [dropdown]

Panel Area:

☐ Main Panel

☐ Custom Size: [input]

☐ Custom Area: [input]

Panel Custom Label Fields

Field 1: [input]

Field 2: [input]

Field 3: [input]

Field 4: [input]

Field 5: [input]

Field 6: [input]

Show/Update Block Preview

Read-Only Mode : No Assembly Selected

Application Layout

Clear Panel- Used to clear panel properties. This button toggles with Set Panel.

Set Panel- Used to enable Panel properties

Panel Layout – Defines Panel(s) orientation, Front and /or Back

Select Panel Properties- Used to define the properties of the panel(s)

Preview – Displays a preview of all panels and lists combined panels area in the assembly as it will be drawn.

Assembly Name- A three digit number is added at the end of the name

Quick Save – Allows a save to the sign assembly before drawing insertion

Custom Blocks – Selected for use of custom made blocks such as those made in Guidsign

Block Preview – Shows Selected panel or Multi panels combined

Main Panel – Used to identify the main panel(s)

Custom Block Definitions – Size and area of custom made blocks such as those made in Guidsign

Custom Field Labels – Used for entering variable information like speeds route numbers

The screenshot shows the FDOT Sign Assembly Tool 1.02.12 interface. The 'Assembly' dropdown is set to 'Sign-001'. The 'Panel Properties' tab is active. The 'Panel Layout' section shows a grid of 16 panels, with the 'Front' orientation selected. The 'Select Panel' section includes a 'Clear Panel' button, a 'Quick Save' button, and a 'Use Custom Blocks' checkbox. The 'Application' dropdown is set to 'Conventional', 'Panel Class' is 'School(S)', and 'Panel Name' is 'S1-1'. The 'Search All Panel Label Names' checkbox is unchecked. The 'School' dropdown is set to 'School - watch for children'. The 'Panel Size' is '36"x36"', 'State' is 'Proposed', and 'Panel Area' is '9.00'. The 'Main Panel' checkbox is checked. The 'Custom Size' and 'Custom Area' checkboxes are unchecked. The 'Block Preview' section shows a preview of the selected panel, which is a 'School - watch for children' sign. The 'Panel Custom Label Fields' section shows six fields for custom labels. The 'Preview' button is at the bottom left of the panel layout section, and the 'Total Area: 9.00' is displayed below it.



Post Properties

Assembly: Sign-001

Panel Properties **Post Properties** Assembly Location Labels

Pay Item: SINGLE POST SIGN [1 SIDED], FURNISH and INSTALL GROUND MOUNT, UP TO 12 SF

Select Post

Installation: Ground Mount

Mounting: Single or Multi-Post

State: Proposed

Sign Type: Furnish and Install Ground Mount

Options: 1 Sided

Size:

Area:

Total Area: 9.00

Auto-Select Pay Item

Post Block Preview

Pay Item – Can be Auto-Selected based on Select Post properties of manually selected from list

Select Post – Define the properties needed to identify the proper pay item

Auto-Select Pay Item – Will select the appropriate pay item based on post properties

Post Block Preview Shows the block for the associated post

Size and Total Area – Shows total sign panel areas for Multi panel sign assemblies

Assembly Location

FDOT Sign Assembly Tool 1.02.12

File Settings

Assembly: Sign-001

Panel Properties Post Properties **Assembly Location** Labels

☒ Place Along Object or Alignment

☒ Use Alignment

Select Object from Drawing

Select Alignment from Drawing

CLSR441
CrossStreet C

Select Sta/Offset

☒ Station 89+01.91

Beg. Station

☒ Offset -83.85

Rotation

Relative

Angle 0

Place Sign Panels Place Sign Post

Rotation

Relative

Angle

Absolute

Dynamic 2 Point

Relative

Allows user to specify what type of object to use to insert signage (Alignment, Line, Polyline)

If using Alignment for placement you can either select alignments from list or select it from the drawing

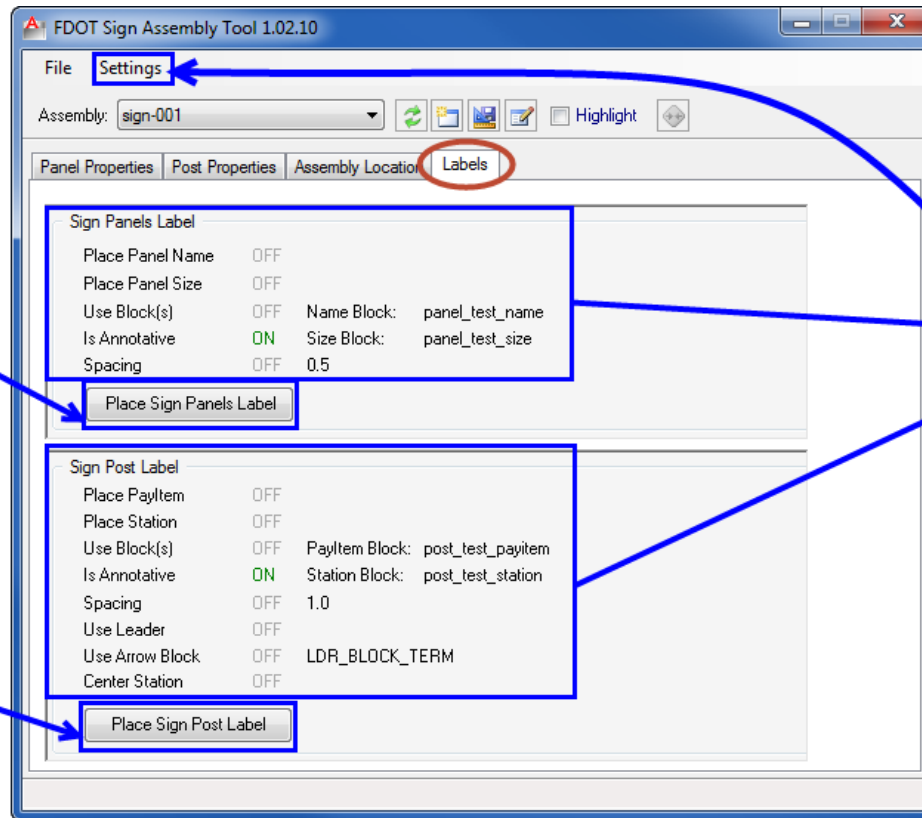
If inserting at a station and offset you can either type in the station and offset or select from drawing

Rotation- The default is Relative but you can select Dynamic- 2 point or enter an absolute angle

Place Sign Panels & Posts – When all of the placement properties are defined the place sign panels and sign post buttons will allow the user to place them in the drawing independently

New this year is the combination of the Place Sign and Post Panels into one Panel.

Labels Tab



Click to place Sign Panels Label

Click to place Sign Post Label

Current User Settings are displayed and can be customized in User Settings

User Preferences

State Preferences

New changes on the State Preferences are the removed control of the Sign Panel Overrides. It is grayed out and is inactive. The control has been switched to the FDOT.Signs.XML file for easier control of default Layers.

The Sign Post Over Ride is still active and allows you to select a different Layer other than the default.

FDOT Sign Assembly Tool - User Preferences

Sign State Symbology Overrides

Sign Panel Overrides

☐ Existing to Remain Layer: SignPanel_ep

☐ Proposed 0

☐ Relocate 0

☐ Remove 0

Sign Post Override

☒ Enabled Layer: SignMisc_ep

State Prefs Panel Label Prefs Post Label Prefs General Prefs

Ok Save Cancel

User Preferences

Panel Label Preferences

Allows you to select options for labeling Panels.

Designate blocks used for labeling

FDOT Sign Assembly Tool - User Preferences

Sign Panel Label Preferences

☒ Name panel_test_name

☒ Size panel_test_size

Layer: TextLabel

Spacing: 0.5

Select Block... ☐ Use Block(s)

Select Block...

Block Library: C:\FDOT2014.C3D\APPS\FDOTSigns\panelblocks.dwg Browse...

State Prefs Panel Label Prefs Post Label Prefs General Prefs

Ok Save Cancel

User Preferences

Post Label Preferences

Allows you to select options for labeling Posts

Designate blocks used for labeling

FDOT Sign Assembly Tool - User Preferences

Sign Post Label Preferences

☒ Pay Item: post_test_payitem

☒ Station: post_test_station

Layer: TextLabel

Spacing: 1.0

Block Library: C:\FDOT2014.C3D\Data\Blocks\postblocks.dwg [Browse...]

Leader Layer: TextLabel

☒ Leader Line: LDR_BLOCK_TERM

☐ Center Station Label On Leader Line

Select Block... [Use Block(s)]

Select Block... [Use Arrow Block]

State Prefs | Panel Label Prefs | Post Label Prefs | General Prefs

Ok Save Cancel

Controls the leader options

Controls the arrow head options

User Preferences

Post Label Preferences

Highlight, Zoom, Annotative Labels, & Placement Settings.

FDOT Sign Assembly Tool - User Preferences

Sign General Preferences

☒ Highlight Assembly when Selected Transparency: 50 % Color: [Red] [Yellow] [Green] [Cyan] [Blue] [Magenta] [White] 1

☒ Zoom Sign Assembly when Selected Zoom Factor: 2

☒ Apply twist when placing panels, posts, and labels ☒ Make Labels Annotative

☒ Select Panel/Post Station+Offset Points Independently ☐ Save and Recall Assembly Definitions

Import/Export Folder Locations:

Import: C:\FDOT2014.C3D\APPS\FDOTSigns\ Browse...

Export: C:\FDOT2014.C3D\APPS\FDOTSigns\ Browse...

Custom Guide Sign Library File:

C:\FDOT2014.C3D\Data\Blocks\gswksp.dwg Browse...

State Prefs Panel Label Prefs Post Label Prefs General Prefs

Ok Save Cancel

Import/Export Folder Options is where your saved assemblies are held

Location of your Custom Guide Sign Library file.

A new OK button has been added