FDOT 2026 Civil 3D State Kit Installation Guide

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FDOT 2026 Civil 3D State Kit – Installation/User Guide

Note: It is strongly recommended that you read this entire document before you install.

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Installation Overview

What is the FDOT2026.C3D State Kit?

The Florida Department of Transportation (FDOT) has developed CADD Standards for the production, delivery and processing of Florida transportation systems plans. The FDOT Production Support Office | CADD produces a CADD Software Suite **"State Kit"** to coordinate these Standards for the Department's approved design software, Autodesk® AutoCAD® Civil 3D 2026® (Civil 3D).

The **CADD Manual** containing the CADD Standards may be downloaded from the Production Support Office |CADD website and viewed here:

Documents and Publications (fdot.gov)

Included in the State Kit for Civil 3D:

- Desktop application launch folder 'FDOT2026.C3D'
- Content folder 'FDTO2026.C3D' containing all FDOT software suite application and FDOT resource files including but not limited to; Blocks, Pay Item Database, Parts Catalog, Templates, Fonts, Linetypes, Plot Support files, Subassemblies, Tool Palettes and Help Documentation.
- Custom FDOT profile 'FDOT2026C3D.arg' and FDOT Ribbon.

System Requirements for FDOT State Kit

The FDOT State Kit for Civil 3D is a stand-alone workstation configuration for Autodesk AutoCAD Civil 3D 2026. It can be installed alongside the FDOT State Kit for Civil 3D 2012, 2014 through 2026. There is not a State Kit for Civil 3D 2013.

For System Requirement information, visit the Autodesk® official support web page:
System requirements for Autodesk Civil 3D 2026 | Civil 3D | Autodesk Knowledge Network

NOTE!:
The year/ version of the FDOT State Kit must match the year version of C3D you are currently using. If you require an older version of the FDOT State Kit, you can download from here: FDOT Software Archive Downloads

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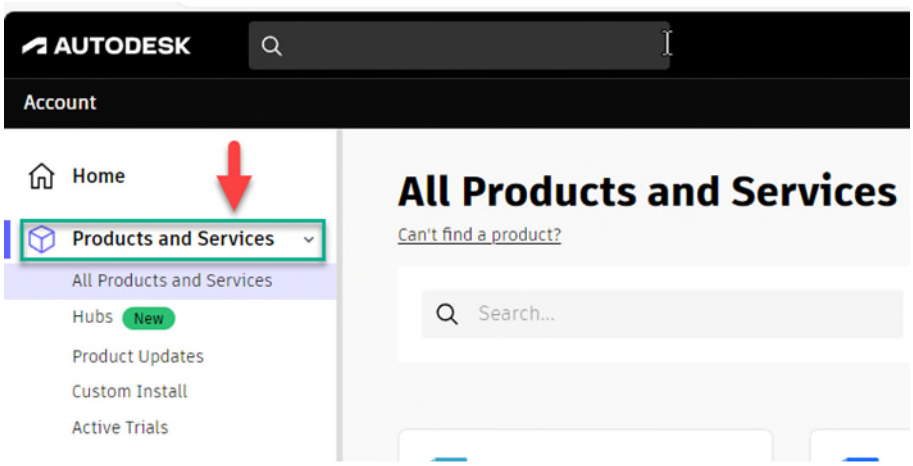
Updates and Service Packs

We recommend AutoCAD Civil 3D 2026 stay current with all available fixes and service packs. The following updates are currently available from Autodesk Knowledge Network Support for AutoCAD Civil 3D Downloads online. Follow installation instructions provided by Autodesk.

- **Autodesk AutoCAD Civil 3D 2026 Downloads, Objects Enablers and Others:**
  Sign in to your Autodesk Account > Products and Services > for Products Updates, Service Packs and Others that may be available for your current Autodesk software.



Remember to read the *Readme* file regarding the installation and use of these downloads. It is strongly recommended that you read this entire document before updating your product(s).

Note for custom workspace users:
The FDOT Civil 3D State Kit does not create, overwrite or modify **any** '.CUIx' including the user's standard C3D.CUIx. However, it is always advisable to **backup** customized files prior to installing Autodesk Civil 3D service packs and upgrades.

The Autodesk Civil 3D CUI is located here:
C:\Users\USERID\AppData\Roaming\Autodesk\C3D 2026\enu\Support\C3D.CUIx.

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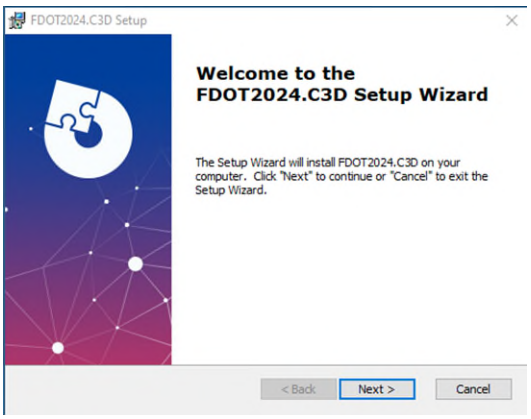
Installation Steps

1. Uninstall any previous version of the FDOT C3D 2026 State Kit from the Windows Control Panel. *If applicable. Note: You may use multiple years of the State Kit together.*

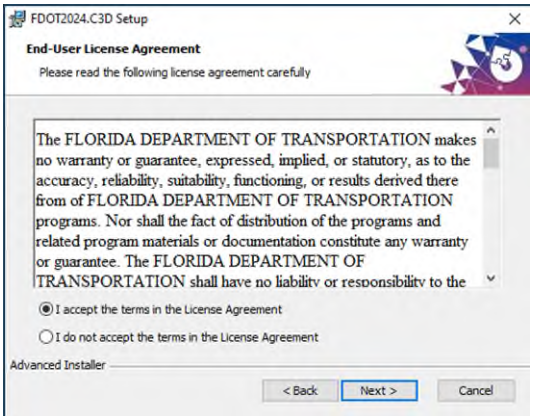
2. Link to download State Kit: [Software Downloads (fdot.gov)]

3. Select and SAVE the **FDOT2026.C3D.Workstation.msi** to a local download location first before executing.

4. Double-click on download file and install providing prompts for Windows permissions, installation location, and project path location.

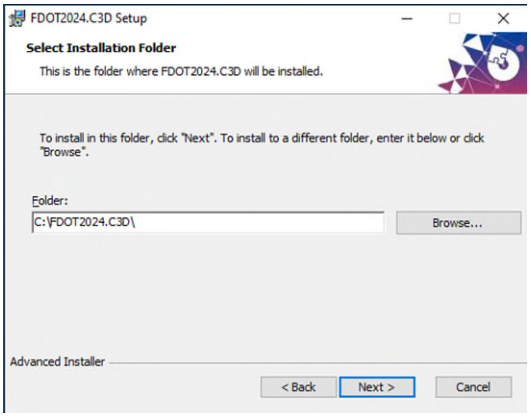
a. 

Select **Next** to continue

b. 

Read and click to accept the EULA.

Select **Next** to continue

c. 

Accept or change default installation path for the FDOT content folder 'FDOT2026.C3D'

Select **Next** to continue

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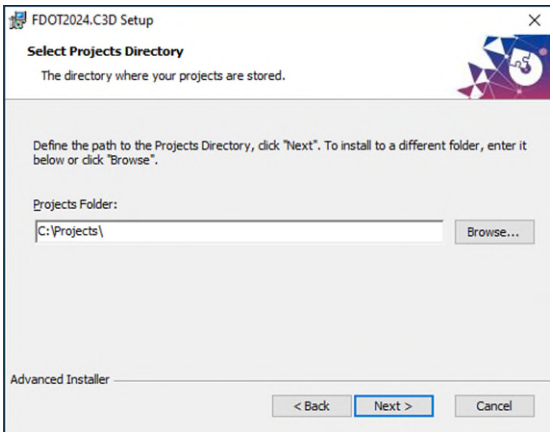
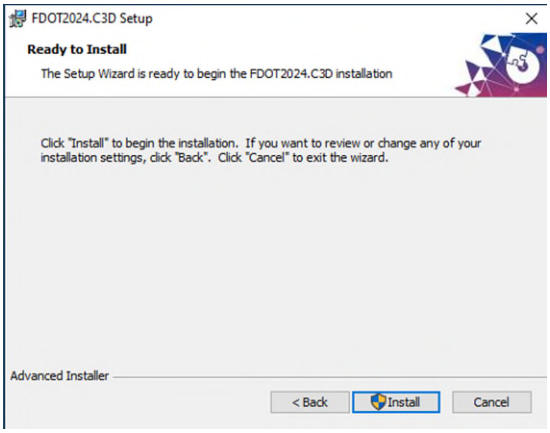
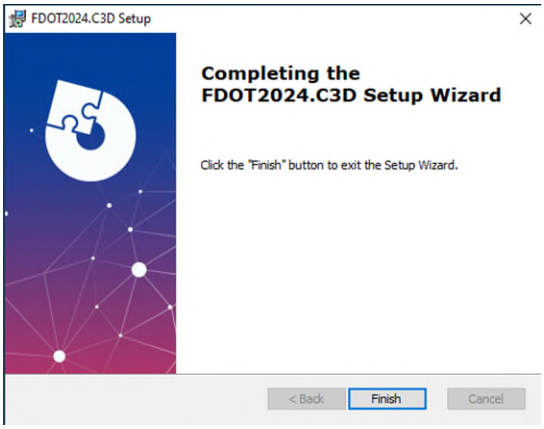
d. 

Browse to desired default Projects directory path or accept default.
(This sets a FDOT environment variable for FDOT Applications)
Select **Next** to continue.

e. 

Select **Install.** Files will be copied to the destination path.

f. 

Select **Finish** to complete the installation.

5. Launch FDOT Civil 3D 2026 State Kit from the installed FDOT2026.C3D desktop shortcut or windows application FDOT2026.C3D group folder.

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IMPORTANT: **Always launch the State Kit from the FDOT2026.C3D shortcut.**

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Uninstalling/Reinstalling the FDOT State Kit and AutoCAD Civil 3D

Uninstalling the FDOT2026.C3D State Kit cleanly removes **all** FDOT installed components.
It is recommended that Civil 3D be maintained up-to-date on all updates for your installation following instructions provided by Autodesk.
It is **not** necessary to uninstall/reinstall the State Kit for Civil 3D update installations.
However, if Civil 3D needs to be reinstalled for any other reason, **you need to uninstall the State Kit first**.

Silent Installation

The FDOT2026.C3D installations can be completed silently. It will be necessary to provide the values for specific properties in the command line string. These properties will define the values typically entered into the dialogs during a manual installation.

Command line syntax:
Msiexec /i <path to msi> /qn PROPERTY=value PROPERTY=value

You can include multiple properties separated by a space.

NOTES: The name of a property contains only uppercase letters.
The trailing backslash is required for the paths defined.

Client Properties	
APPDIR	Defines the path to the local FDOT2026.C3D directory
SERV	Defines the path to the FDOT2026.C3D server directory
PROJ	Defines the path to the AutoCAD Projects directory
Msiexec /i \\ServerName\SherName\FDOT2026.C3D.Workstation.msi /qn **APPDIR**=C:\FDOT2026.C3D\ **SERV**=\\Server\Share\FDOT2026.C3D\ **PROJ**=C:\Civil 3D Projects\	

Workstation Properties	
APPDIR	Defines the path to the local FDOT2026.C3D directory
PROJ	Defines the path to the AutoCAD Projects directory
Msiexec /i \\ServerName\SherName\FDOT2026.C3D.Workstation.msi /qn **APPDIR**=C:\FDOT2026.C3D\ **PROJ**=C:\Civil 3D Projects\	

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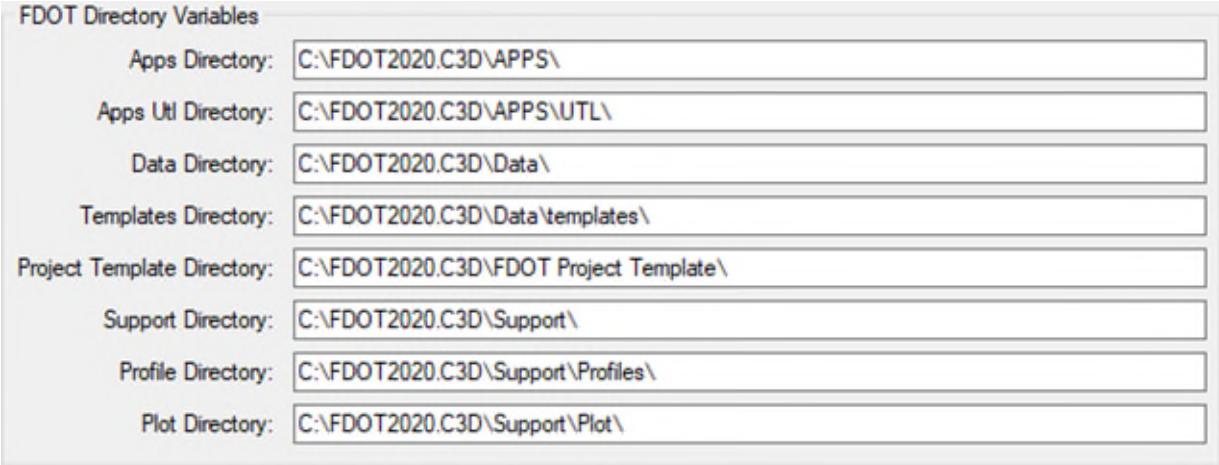
Installation Notes

FDOT2026.C3D Directory Structure

The installation adds the following directory structure and content:
C:\FDOT2026.C3D\

The installation creates a directory \FDOT2026.C3D, where specified, locally or on a server.
We recommend the FDOT software be installed at the default directory level on the drive selected. Nearly all of the FDOT programs, content and support files are in this folder.



C:\ProgramData\Autodesk\C3D 2026\enu

The installation adds the remaining FDOT resource support files to Program Data for use by Civil 3D 2026. They include FDOT Subassemblies resource files; .dll files, ATC catalogs, assemblies for tool palettes, imported Subassembly packets and Subassembly help files. Also required in this location are FDOT custom pipe network rule files. Default located content is design criteria standards and survey settings files.

C:\Users\USERID\AppData\Roaming\Autodesk\C3D 2026\enu\Support\

The AutoCAD default is: .\Profiles\FDOT2026C3D\Profile.aws

Environment Variables and Registry Entries

The installation adds the following environment variables:

FDOT2026.C3D.SERVER

This variable points to the location of the FDOT2026.C3D server directory.

FDOT2026.C3D.LOCAL

This variable points to the location of the FDOT2026.C3D directory on the local machine. Specifically points to location of standalone apps.

FDOT2026.C3D.PROJECTS

This variable points to the location of the configured projects directory.

The installation adds the following registry entries:
HKEY_LOCAL_MACHINE\SOFTWARE\FDOT\FDOT2026.C3D\FDOT2026.C3D.LOCAL
HKEY_LOCAL_MACHINE\SOFTWARE\FDOT\FDOT2026.C3D\FDOT2026.C3D.PROJECTS
HKEY_LOCAL_MACHINE\SOFTWARE\FDOT\FDOT2026.C3D\FDOT2026.C3D.SERVER

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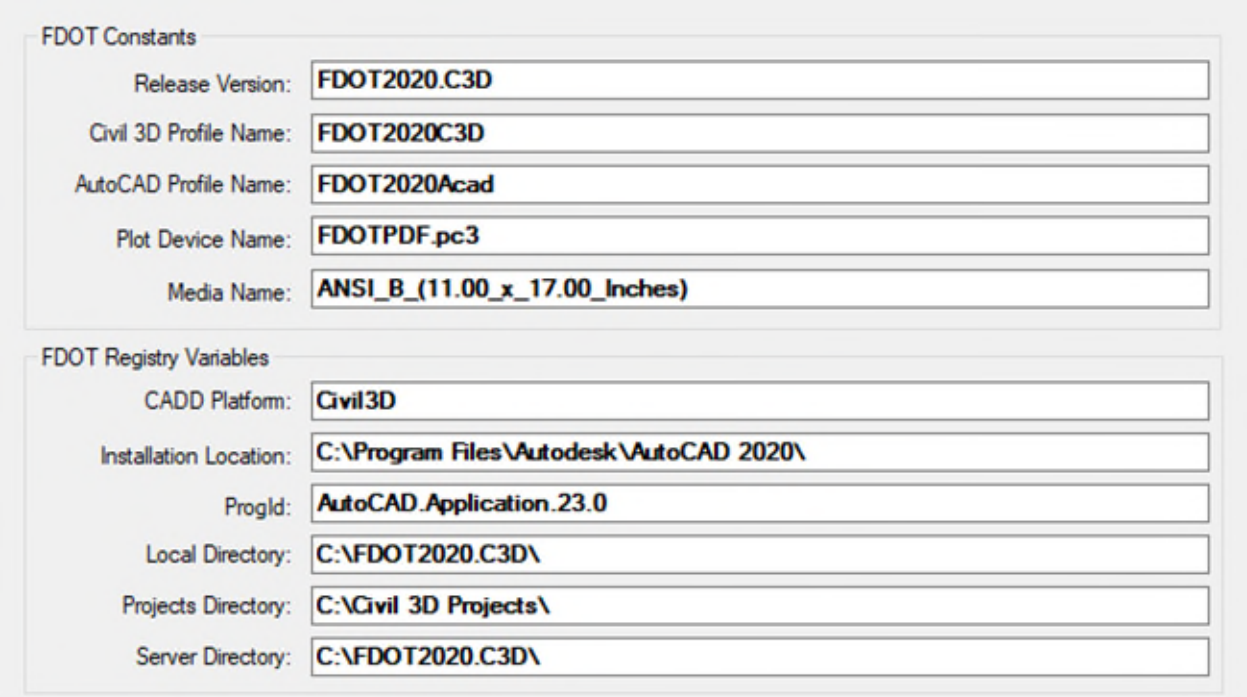
Other Environment Settings:



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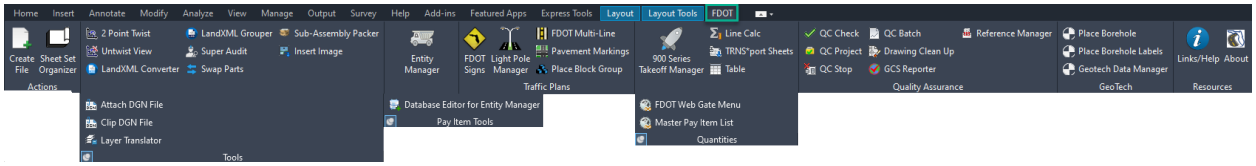
FDOT Ribbon Content

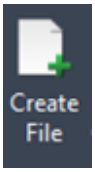
FDOT Ribbon



FDOT Ribbon

Hover over an icon then Press **F1** to access the Help documentation and Videos for FDOT applications on the FDOT Ribbon. Type **FDOTRIBBONTAB** or **REMOVEFDOTRIBBONTAB** at the command line to turn on/off the FDOT ribbon.

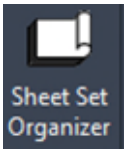
Create File



Create File

Launches the Create File application so the user can automatically create new drawings based on FDOT standards into project structure. Chooses the correct template per selected FDOT Sheet type then assigns standard name. Saves and opens new file.

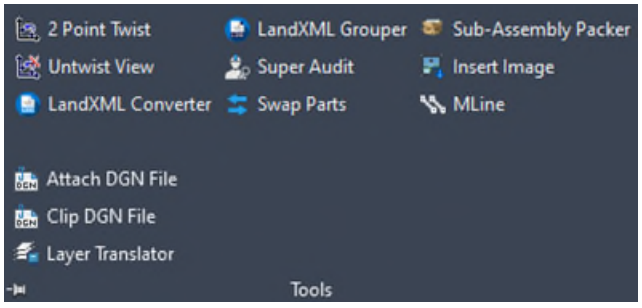
Sheet Set Organizer



Sheet Set Organizer

Sheet Set Organizer (SSO) is an application that interacts with AutoCAD Sheet Set Manager (SSM) to provide comprehensive management of the Sheets Sets (.DST files) that also comprises of complete plans sets. When a project is opened with Sheet Set Organizer, that project directory structure is searched for .DST files and all of the drawing files and layouts referenced in those DST files are rolled up into a single Sheet Set Organizer vista.

Tools



2 Point Twist

Rotates the view to the angle defined between two selected points.

Untwist View

Returns the view to its original angle of rotation.

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LandXML Converter
Converts EFB outputted LandXML data onto file formats for CAiCE and GEOPACK and Grouped LandXML.

LandXML Grouper
Organizes LandXML data into points and feature chain LandXML groups using custom filters.

Super Audit
Runs an AutoCAD Audit and Purges unregistered apps.

Swap Parts
For drawings containing Drainage Networks, Swap parts is used to swap Multiple Structures and/or Pipes.

Sub-Assembly Packer
Gathers FDOT custom sub-assemblies that are used within a project and packages them into a zip file. This file in placed in the Roadway folder of an FDOT project.

Attach DGN File
Attaches a DGN file as an XREF.

Clip DGN File
Clips a DGN reference to desired shape.

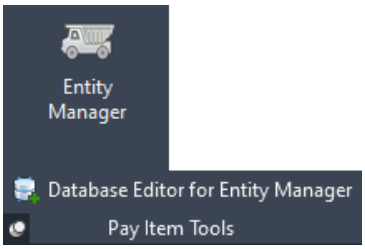
Convert Ellipse to Arc
Converts Ellipses to Arcs. Used for correcting geometry types for AutoCAD use.

Insert Image
Inserts a vector correlated raster image file.

Layer Translator
Used to update layers between active drawing and a source drawing template file.

Mline
Draws AutoCAD Multi Linetypes.

Pay Item Tools



Entity Manager
Entity Manager is an automation tool for Civil 3D used to place objects in the drawing at the proper symbology with attached pay item data appropriate for the object and drawing type.

Database Editor for Entity Manager
Edits the custom Pay Item Database file utilized by Entity Manager for Compute Method, Adhocs Data, ID and graphical data.

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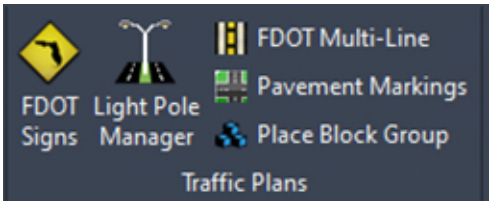
Traffic Plans



FDOT Signs

Creates a sign assembly with pay item including the sign panel post, any foundation or breakaway base of single and multiple panels.

Light Pole Manager

This application allows users to enter data for Light Pole Data Tables

FDOT Multi-Line

Automates the placement of multiple lines through the creation of a pattern with attached pay item data.

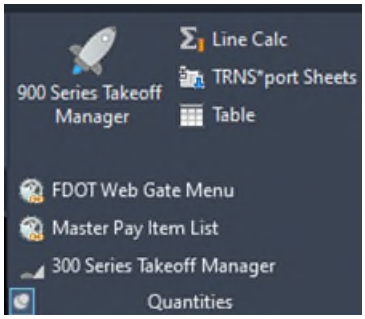
Pavement Markings

Automates the design and placement of Gore, Island and Land Striping.

Place Block Group

Inserts a pay item block in groups directionally along entities (alignment) with pay items assigned.

Quantities



900 Series FDOT Takeoff Manager

FDOT Takeoff Manager is an automation tool for Civil 3D used to extract pay item quantities from the plan sheets for placement in the tabulation of quantity sheets.

Line Calc

The line calculator can select segments of Lines, Arcs, and Polylines to generate a cumulative total length that can be exported to Excel or inserted into the drawing as a Table.

TRNS*port Sheets

Inserts CES .xml reports exported from the TRNS*port program as a table (lines and text) inside of a required summary of pay item sheet layout.

Table

AutoCAD Command: TABLE - Creates and inserts an empty table object into the current drawing.

Database Editor for AECMERGE

Edits the AECMERGE Pay Item Database.

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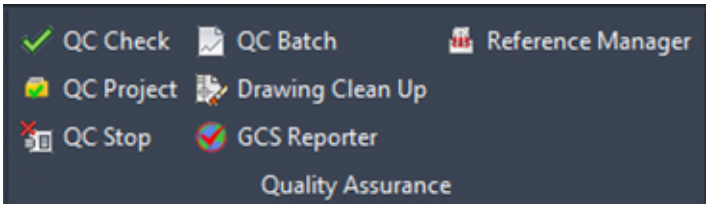
FDOT Web Gate Menu

Link to the FDOT AASHTOWare Project Web Interfaces.

Master Pay Item List

Link to the FDOT Basis of Estimates and Pay Item Information website which contains a link to the current Master Pay Items List PDF.

Quality Assurance



QC Check

Generates a QC (Quality Control) non-compliance check list for interactive corrections.

QC Project

Generates the project QC Report for all the files in the selected project.

QC Stop

Unloads QC Checker to stop compliance scans when drawing is closed.

QC Batch

Batch checks drawing files for compliance and generates a report.

Drawing Clean Up

Performs multiple entity cleanup operations on a drawing file.

GCS (Geographic Coordinate System) Reporter

Reporting application on the status of what (if any) coordinate system is set in a file.

Reference Manager

Provides tools to list referenced files in drawings and to modify the saved referenced path. Drawings with unresolved references can be easily identified and fixed. A report can be exported as well.

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GeoTech

Place Borehole

Used to place Borehole symbols and data read from an Excel spreadsheet into Section Views.

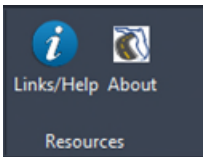
Place Borehole Labels

Used to place Borehole Labels into Plan and/or Sections Views

Geotech Data Manager

Allows you to enter borehole information or import borehole info from an excel. Outputs an XML for the placing tool.

Resources



Links/Help

Lists online resources and information to get support, web links and FDOT Links along with Autodesk C3D Versions and FDOT Versions.

About

Displays the installed FDOT and Civil 3D versions.

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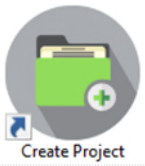
FDOT Standalone Applications

Create Project

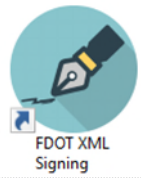


Application Folder
CreateProjectC3D.exe

Author: Andrew Fuller

Description:
This application creates an FDOT Civil 3D Project. It can setup the appropriate directory structure and its corresponding sub-directory and the other required component's specific to Civil 3D. Civil 3D must be shut down in order for this application to run.

FDOT XML Signing

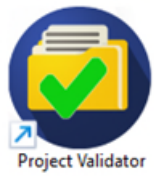


Application Folder
FDOTXMLSigning.exe

Author: Ray L'Amoreaux

Description:
Digitally signs and verifies XML Data. It is a simple implementation of XML digital signature based on the W3C Specification 1.0. The application is only intended to apply a single digital signature per file. Multiple files may be signed in a single operation. Verification of signed files may be done as a batch operation. Comments may be modified or be added to the XML after the file has been signed, and the signature will still be verified as authentic.

Project Validator



Application Folder
Project Validator

Author: Mike Robertson

Description:
Project Validator creates an HTML-based report summarizing the QCProject report.

LandXML Converter

Application Folder
LandXMLGrouper.exe

Author: Ray L'Amoreaux

Description:
Converts LandXML data output from EFB to CAiCE and GEOPAK input data. The application can be called from the command line to automatically process data. The Office of Surveying and Mapping includes this application in their workflow for processing EFB data. If executed without parameters, the application interacts with the user through a form. Given EFB LandXML input data the converter outputs the following geometry file formats: SRV, KCP, INP and XML representing CAiCE SRV data, CAiCE KCP data, GEOPAK input data, and LandXML Grouped Output. A log provides information on data processing status. The grouped output is ordered by various criteria including point code, name, role or zone.

LandXML Grouper

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	Application Folder *LandXMLGrouper.exe*	Author: Ray L'Amoreaux

Description:
The LandXML Grouper reads survey data from the EFB (Electronic Field Book) allowing users to create groups of points, chains, and pipe networks based on a variety of search filters. A set of standard filters is provided and accessible through the application. New filters and modifications can be saved for later use as XML data (FDOTGroupSetting.xml). Imports LandXML survey data from the EFB (Electronic Field Book) into the application for use as the basis for source points and groups. Once survey data is read and search criteria is selected, use this option to create a point group, chain group, or pipe network. The filtered group is then added to the output tree view. Groups can then be renamed or removed as needed. Finally the application saves the output data, formatted to AutoCAD Civil 3D standards, to a LandXML file.

LandXML Visualizer

	Application Folder *LandXML Visualizer.exe*	Author: Ray L'Amoreaux

Description:
Provides a visual representation of various types of LandXML data. Examples of input types are from: GEOPAK, KC, Electronic Field book, Civil 3D and any LandXML data that adheres to the LandXML-1.2 standard (and prior). There are limitations on processing some types of data. The following types of data are processed: Surfaces, Cogo Points, Parcels, horizontal and vertical Alignments, Cross Sections, Pipe Networks, and Plan Features. There are 3 primary displays that include: Plan View for displaying surfaces including elevation and slope vectors, contours, alignments and point data; Profile View for displaying multiple vertical Profile data; and Section View for display of Cross Section and Design Cross Section data that can be linked to the appropriate vertical alignment. Each view provides the capability to turn on/off sections of data (using a hierarchal tree view control), zooming and positioning controls, measurement and precision elevation displays. A log view provides status and debug information.

Summary of Drainage Structures

	Application Folder *SummaryofDrainageStructures.exe*	Author: FOCUS

Description:
The Summary of Drainage Structure report is an application that is launched outside of the FDOT Civil 3D State kit. It is located in the FDOT20##.C3D folder on the user's desktop after installation, when executed it will read the drainage networks in the selected drawing file and generate a formatted excel spreadsheet with the structures and pipes. The user will then be able to link the spreadsheet to the drawing file using the data link manager.

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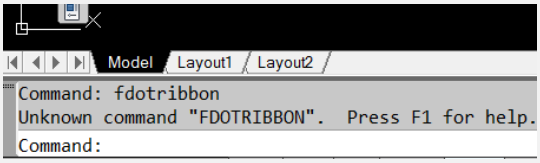
Troubleshooting\F.A.Q.

Removing the FDOT C3D Profile using the FDOT Profile Scrubber

NOTE: This process, removing the FDOT C3D Profile, does not affect other AutoCAD user profiles or customization. You do not have to reinstall the State Kit after running this utility. For additional information, see application's Readme.txt installed at C:\FDOT2026.C3D\APPS\Support\ProfileScrubber\.

Issue: *If FDOT2026C3D.arg fails to load properly on first launch of FDOT Civil 3D, you may see the following messages.*

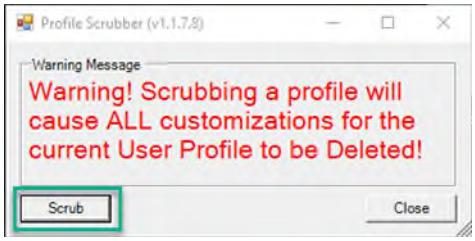


This can occur when prior profiles with the **same name** stored in the registry are preventing the new .arg file to be loaded. Clearing those paths allows Civil 3D to force a fresh re-read of the .arg file.

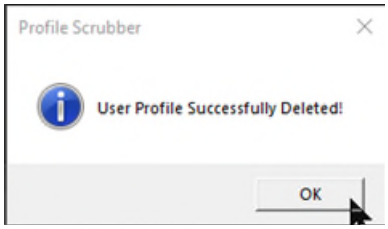
The profiles are cleared in the ALL user's AppData folder:
C:\Users\USERID\AppData\Roaming\Autodesk\C3D 2026\enu\Support\Profiles\FDOT2026C3D.
A registry entry is also made in the registry at:
HKEY_CURRENT_USER\Software\Autodesk\AutoCAD\R20.0\ACAD-A000:409\Profiles\FDOT2026C3D

1. Close Civil 3D.
2. On your Desktop locate the FDOT 20## folder and select the Profile Scrubber icon.

3. Select the Scrub option.



5. Select **OK** when process finished.



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Reimporting the FDOT Civil 3D Profile – Manual Method

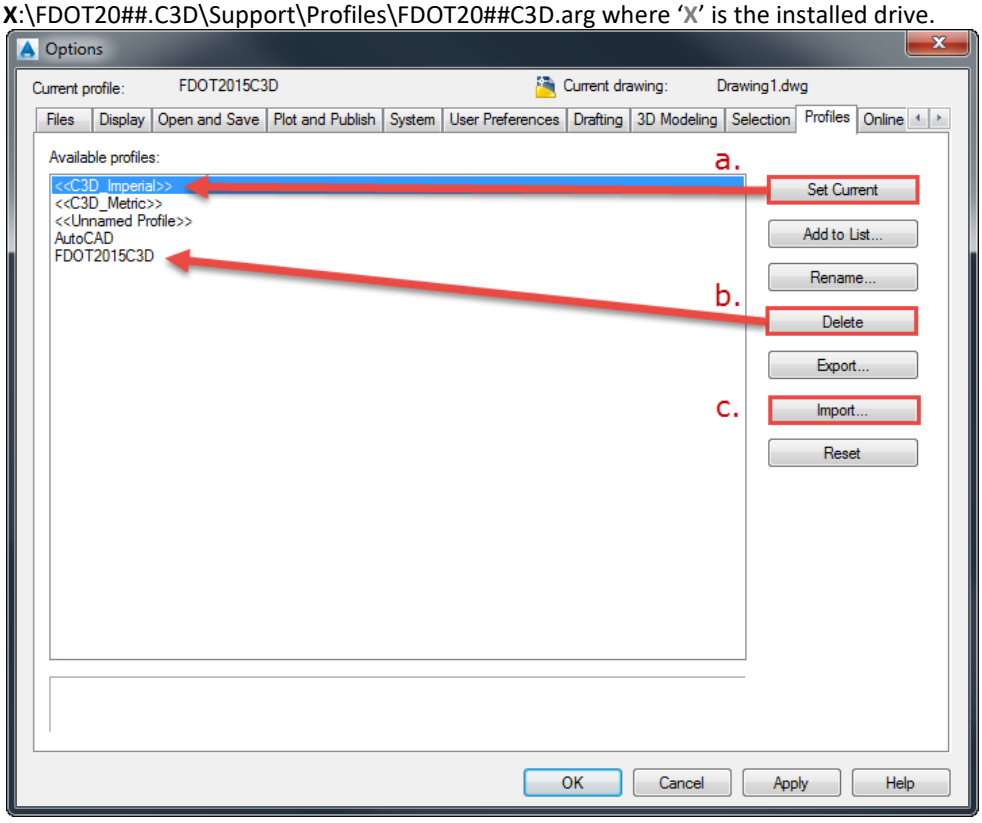
Issue: *If the FDOT Civil 3D State Kit launches without error but the Civil 3D Workspace with its ribbon does not load, manually reload the FDOT Civil 3D Profile through AutoCAD. This will also correct most Workspace issues that are not corrected by re-launching from the State Kit Shortcut.*

1. Command: **Options** > Profile Tab (see image below)

    a. Click to select ***another*** profile from 'Available profiles' list and then select 'Set Current'

    b. Select and Delete the FDOT2026C3D profile

    c. Import the installed FDOT Civil 3D Profile file '***FDOT20##C3D.arg***' from: **X**:\FDOT20##.C3D\Support\Profiles\FDOT20##C3D.arg where 'X' is the installed drive.



2. **OK** to accept and reload Profile into registry.
3. Command Line: FDOT Ribbon.

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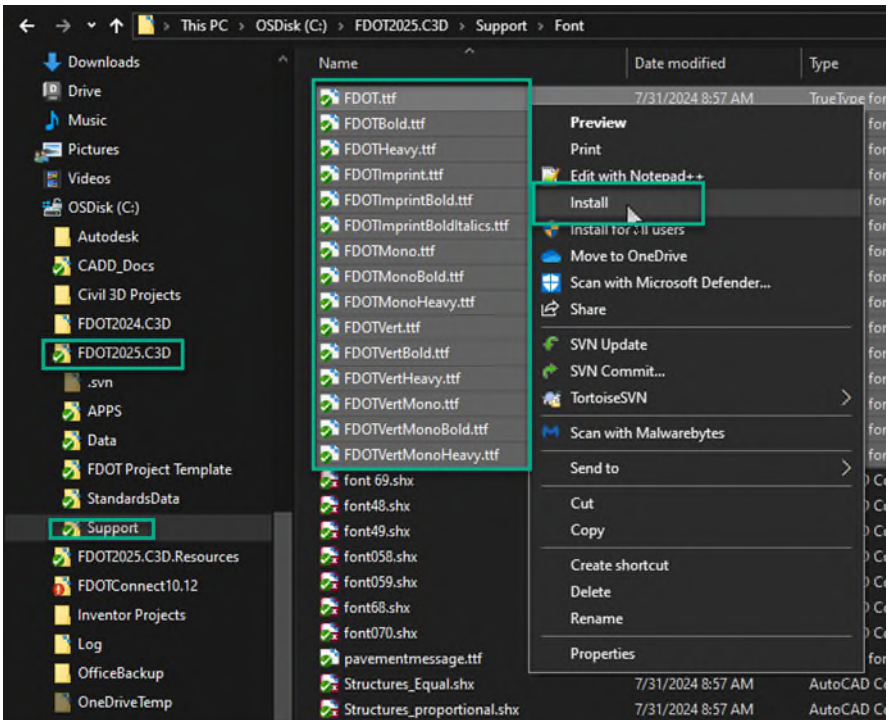
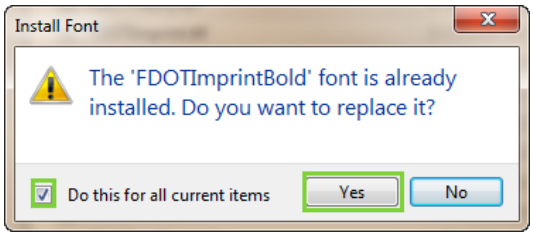
Missing FDOT Windows Fonts

Issue: *The uninstallation of FDOT software suites for AutoCAD Civil 3D removes the installed FDOT Windows fonts that are used for both platforms. The only solution available is to inform the end-user to reinstall Windows fonts using the steps outlined below.*

1. Launch Windows explorer and browse to the *C:\FDOT20##.C3D\Support\Font* folder.
2. Select all the .ttf files by holding down the shift key, click on the first file in the list and then select the last .ttf file.



3. Right-click and choose **Install**.
4. In the Install Font dialog box, check **Do this for all current items** and click **Yes**.



Create Project Fails to Complete Process

Issue: *After completing the Create Project process an error is displayed warning the user that the process could not complete.*

To resolve this, FDOT Civil 3D State kit must be launched at least one time after the PC/Workstation or Laptop has been booted up or restarted. This allows the appropriate files to be written to the user Windows registry in order for the Create Project application to run completely.

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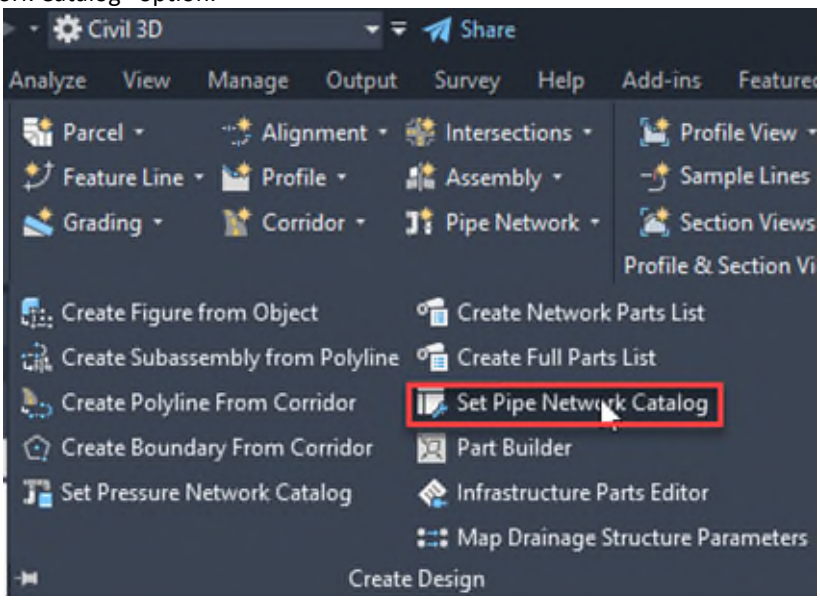
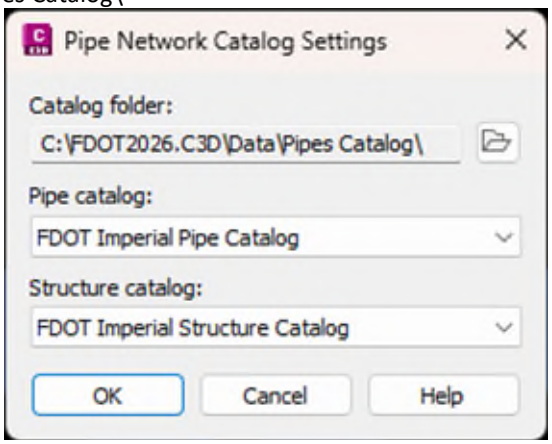
FDOT Civil 3D State Kit Set Pipe Network Catalog

Issue: *When creating a Pipe network. Software is not able to find FDOT specific pipe Catalog Settings.*

To resolve this, locate the Home ribbon tab and select the Crate Design Panel. On the fly-out select the "Set Pipe Network Catalog" option.



Verify that the Catalog folder path is pointing to the current FDOT Civil 3D State kit version: C:\FDOT20##.C3D\Data\Pipes Catalog\



The Pipe Catalog and the Structure Catalog pull down menu options should automatically set themselves.

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