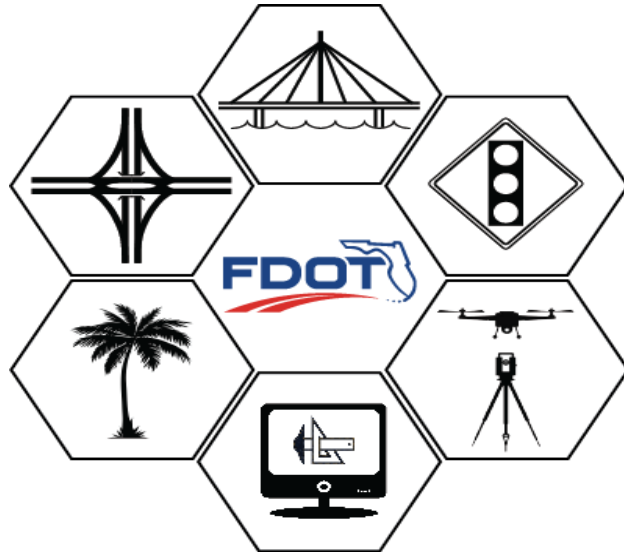


# ***FDOT Civil 3D State Kit***

## ***Subassemblies: Driveway and Curb ramp***

### ***3D Corridor Modeling***



***Mike Racca - CADD Applications Support Specialist***

Production Support Office | CADD

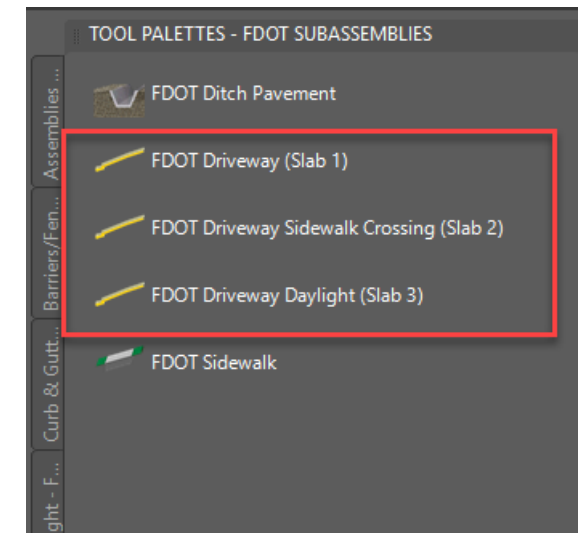
605 Suwannee St - MS 40, Tallahassee, Florida 32399-0450



This workflow demonstrates the use of the FDOT Driveway block, 3 custom FDOT driveway and 1 drop curb subassemblies to create a 3D driveway corridor model. We will also create a 3D proposed surface that can be pasted into a final proposed surface.

## Process Description:

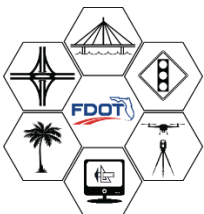
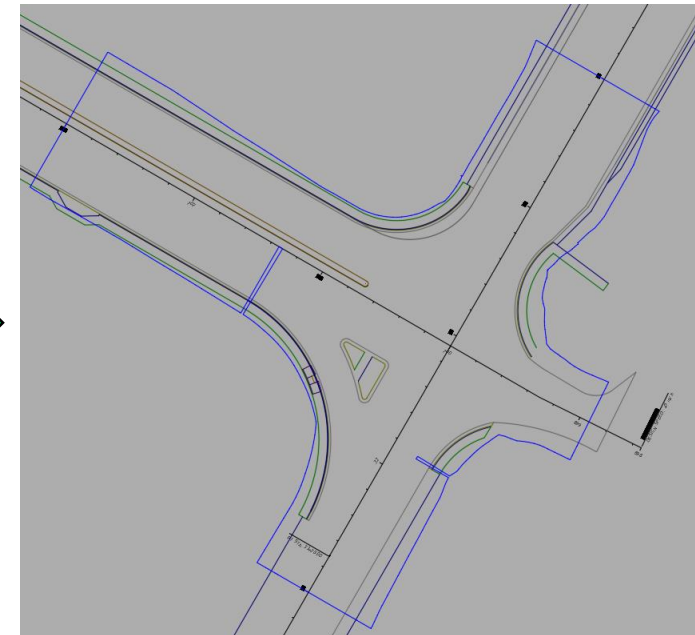
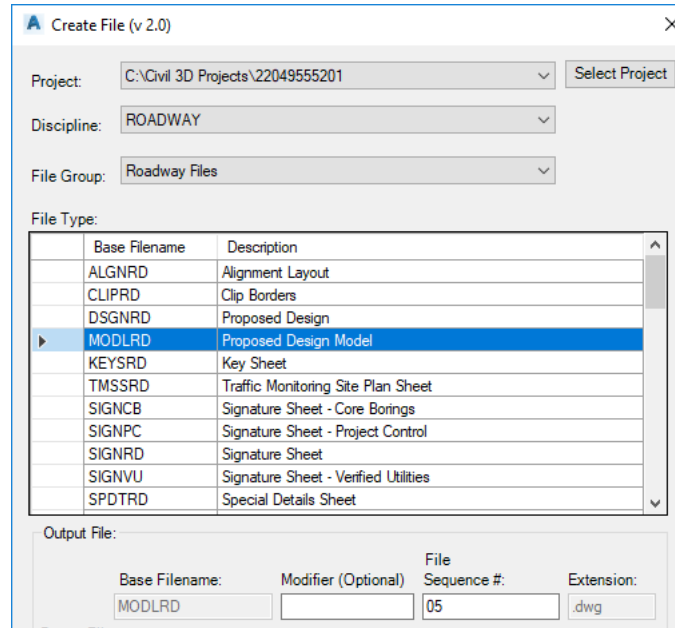
1. Create Data Shortcuts References.
2. Create Profile of Target Alignment.
3. Insert Driveway layout using FDOT Driveway Block.
4. Create Feature Lines from FDOT Driveway Block.
5. Create Driveway Assembly
6. Create Driveway Corridor Model.
7. Add Targets to Driveway Corridor Model.
8. Create Corridor Surface from Driveway Model.



# Driveway Preparation

Place 3D Model features in Proposed Design Model file.

1. Use the **Create File** application to create a new drawing.
2. Select File Group > Roadway Design Files > **Proposed Design Model** for the file type.
3. Set the correct **Coordinate System**.
4. Select **Create - Open File**.
5. Choose Save As and rename to **MODLRD##.dwg**.
6. Attach Xref's of the proposed design file **DSGNRD##.dwg**.
7. Create Data References of **Existing** and **Proposed** surfaces and target **Alignment**.

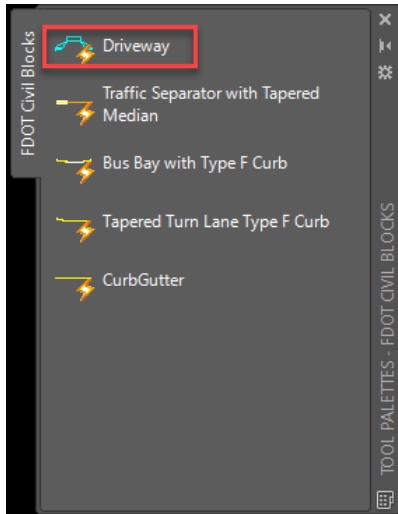


# *Insert Data References Alignments, Surfaces and Profiles*

- ✓ Surfaces:
  - ✓ Existing Ground Surface, EG in the GDTMRD##.dwg
  - ✓ Proposed Surface in the MODLRD##.dwg
  
- ✓ Profile :
  - Existing ground profile at the alignment, EG PGL-RT
  - Existing Profile does not need be data referenced. Create this directly in the drawing.
  
- ✓ Target Alignment:
  - Alignment that is being using for the Assembly to target, generally its going to be the Edge of Pavement LT or RT alignment.



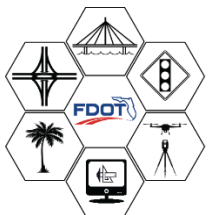
# FDOT Dynamic Driveway Block for Civil 3D State Kit



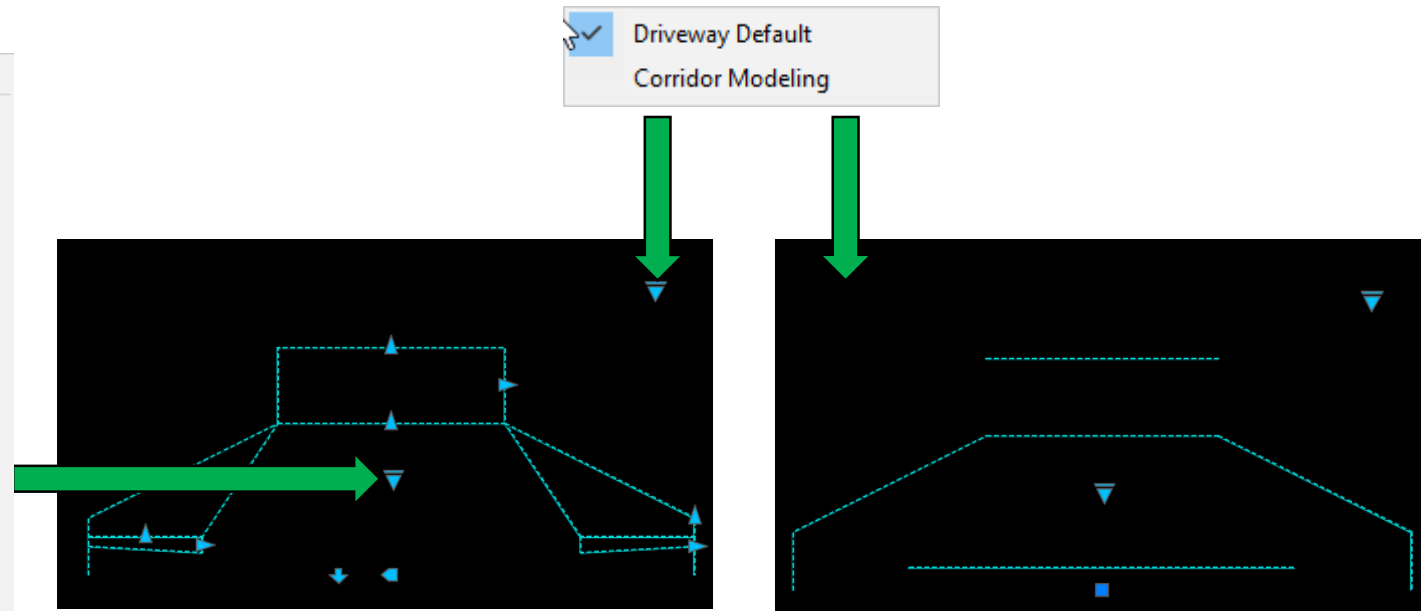
## ◆ FDOT Driveway Block

This Dynamic Driveway Block is used to represent existing driveways or proposed. You pick and control the Driveway type via grip editing or parameter input. Visibility options include Corridor Modeling that displays line work used for targets when exploded.

Driveway types are in accordance to FDOT index no. 515.



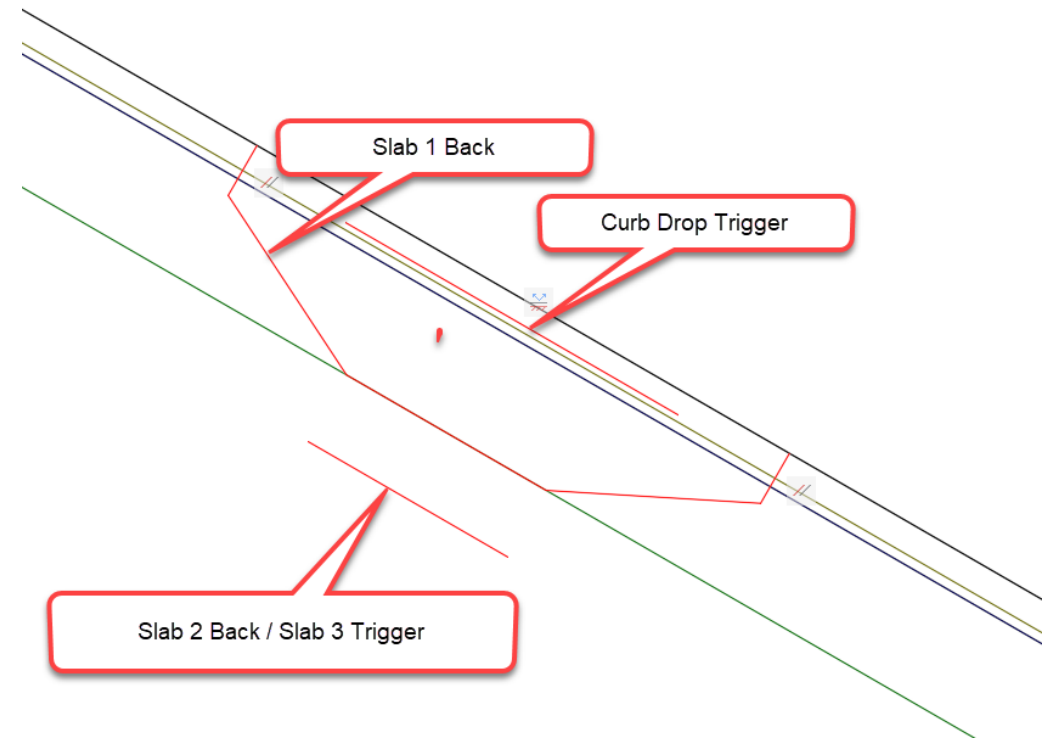
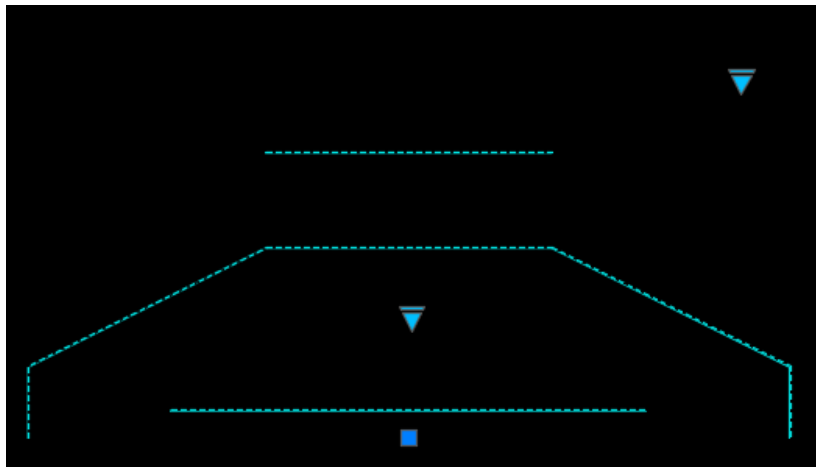
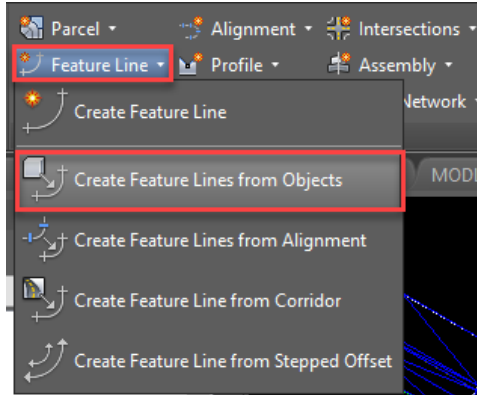
DrivewayType
A1
A2
A11
A12
A22
A23
G1
G2
G3
G4
G5
G6
G7
G8
G11
G12



# FDOT Dynamic Driveway Block for Civil 3D State Kit

## ◆ FDOT Driveway Block

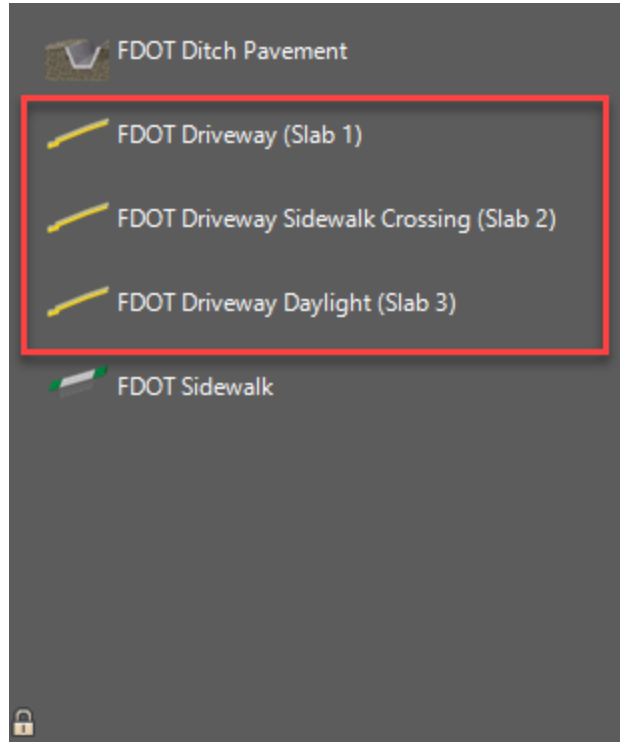
Explode the Driveway block. Join the 4 lines and convert to polylines. Then use the “Create Feature Lines from Objects” command to Assign names and elevations to Feature lines for corridor modeling horizontal and vertical targets.



# FDOT Custom Subassemblies for Civil 3D State Kit

## ◆ FDOT Driveway (Slab 1, 2 & 3)

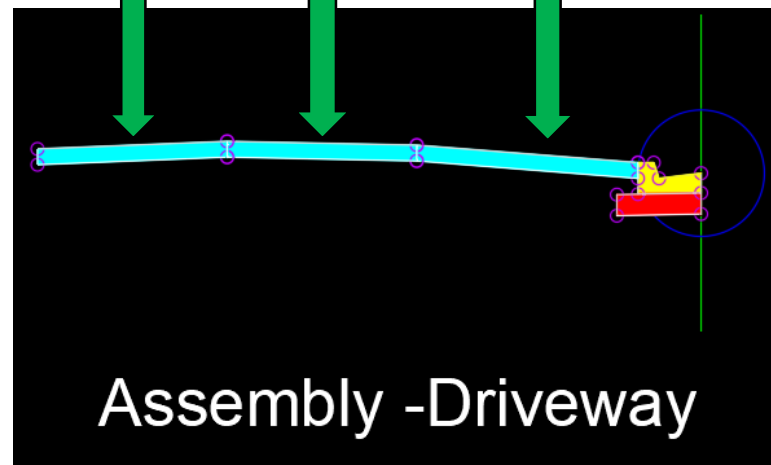
These subassembly's will draw the predefined driveways according to the Standards Plans for Road and Bridge construction Index No. 000-515. A full curb will be drawn if no driveway is found and will transition into Drop Curb. The transition length will be defined by the user placing a target line to indicate the full drop portion of the curb.



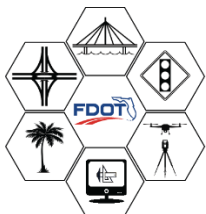
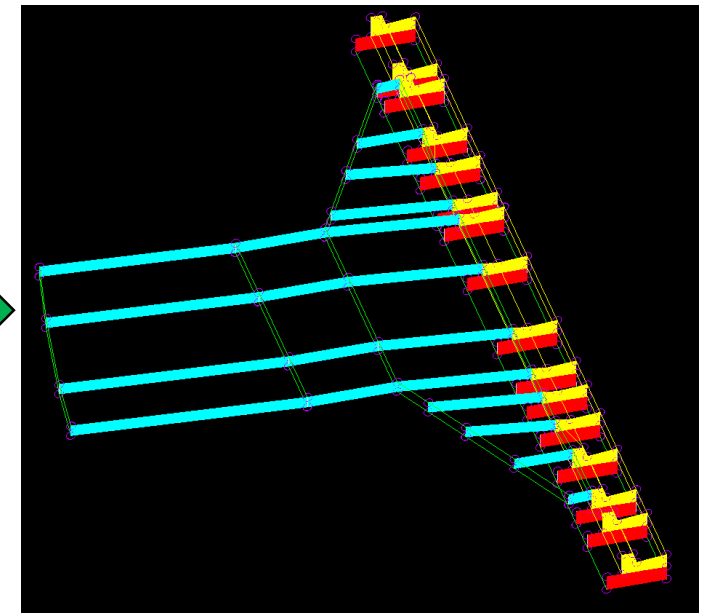
Slab 3 (Daylight)

Slab 2 (Sidewalk)

Slab 1 (Back)



3D Corridor Driveway Model



# *FDOT Civil 3D State Kit*

## *Subassemblies: Driveway and Curb ramp 3D*

### *Corridor Modeling*

Thank You!

The Civil 3D FDOT State kit is available for download at:

<https://www.fdot.gov/cadd/>

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