

FDOT Subassemblies for Civil 3D Milling and Resurfacing



Engineering/CADD Systems Office

Central Office – Tallahassee

randy.roberts@dot.state.fl.us

bruce.dana@dot.state.fl.us

Randy Roberts

Bruce Dana, PE

◆ Typical Sections and Details

- ✓ Milling and layering shall be shown in plans

◆ Resurfacing

✓ Match Existing

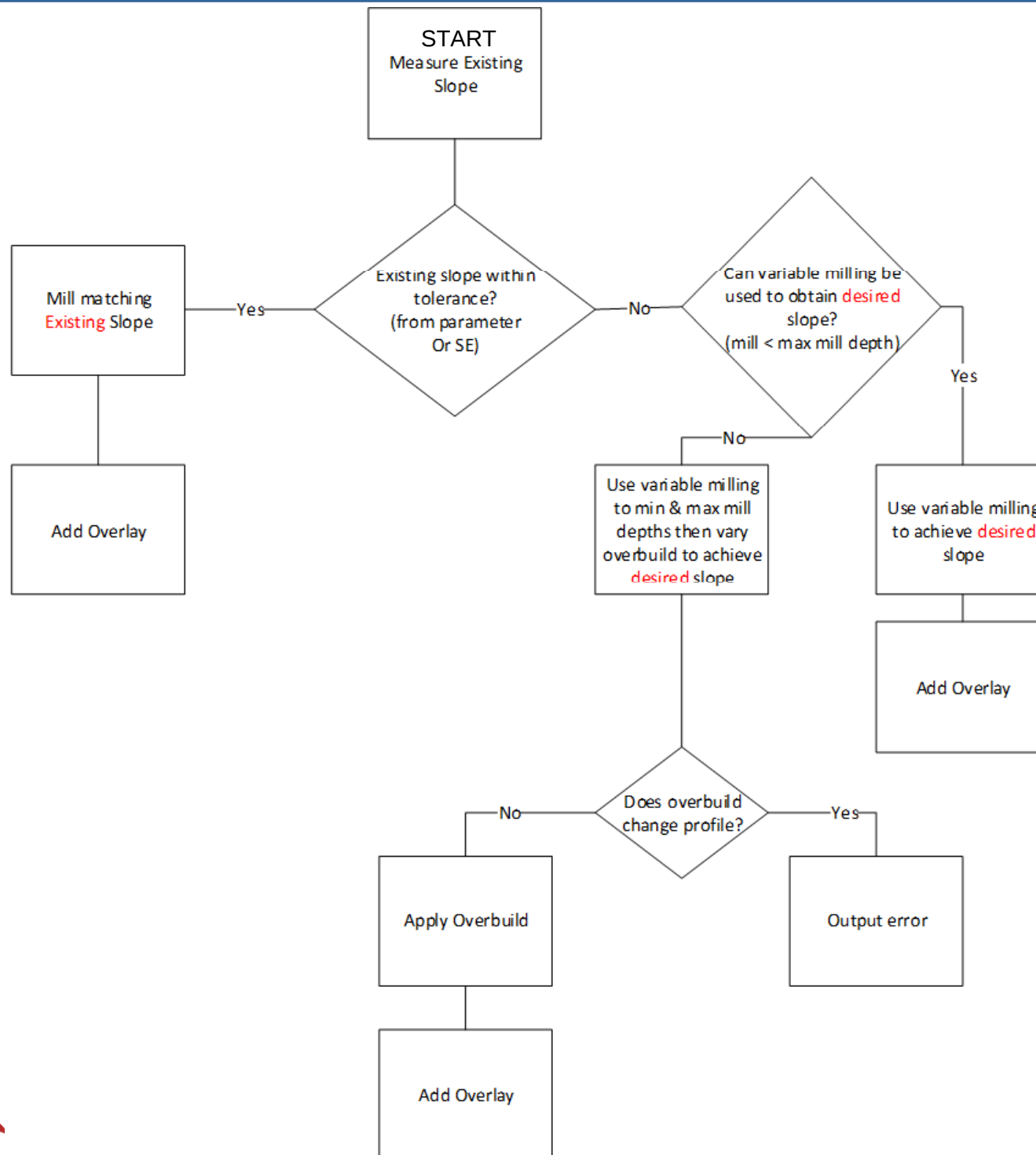
- Constant depth milling
- Resurface at constant thickness
- Existing cross slope to remain
- Use large tolerance interval range ($\pm$ several%)

✓ Cross Slope Correction

- Use tighter tolerance interval range ($\pm 0.5\%$)

◆ Resurfacing

- ✓ Match Existing
- ✓ Cross Slope Correction
 - Variable depth milling
 - Variable depth milling and overbuild
- ✓ Resurface (overlay) at constant thickness
- ✓ Optional friction course at a constant thickness



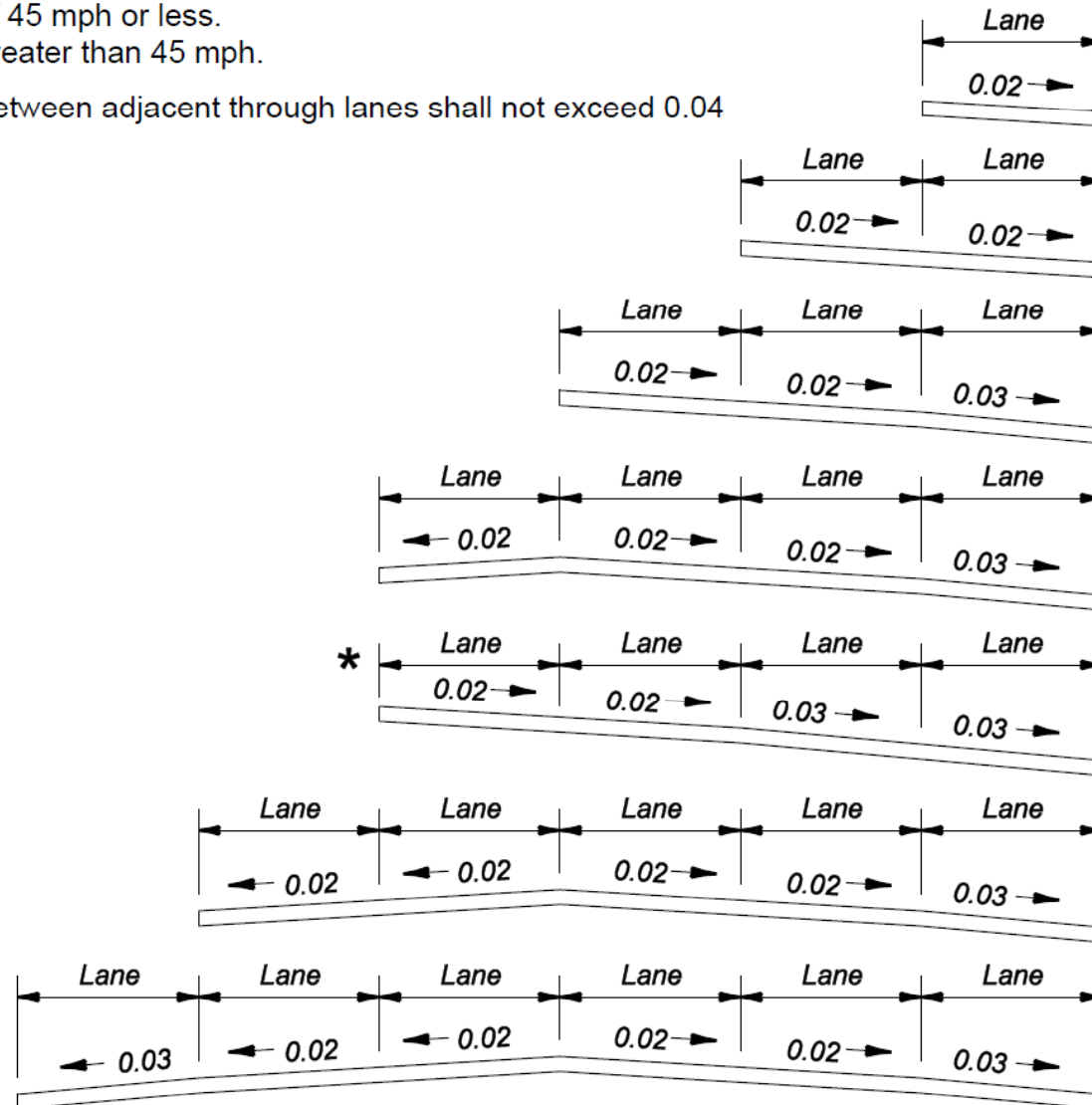
PPM Volume 1, Chapter 2

Maximum pavement cross slopes on tangent sections are:

0.04 for design speeds of 45 mph or less.

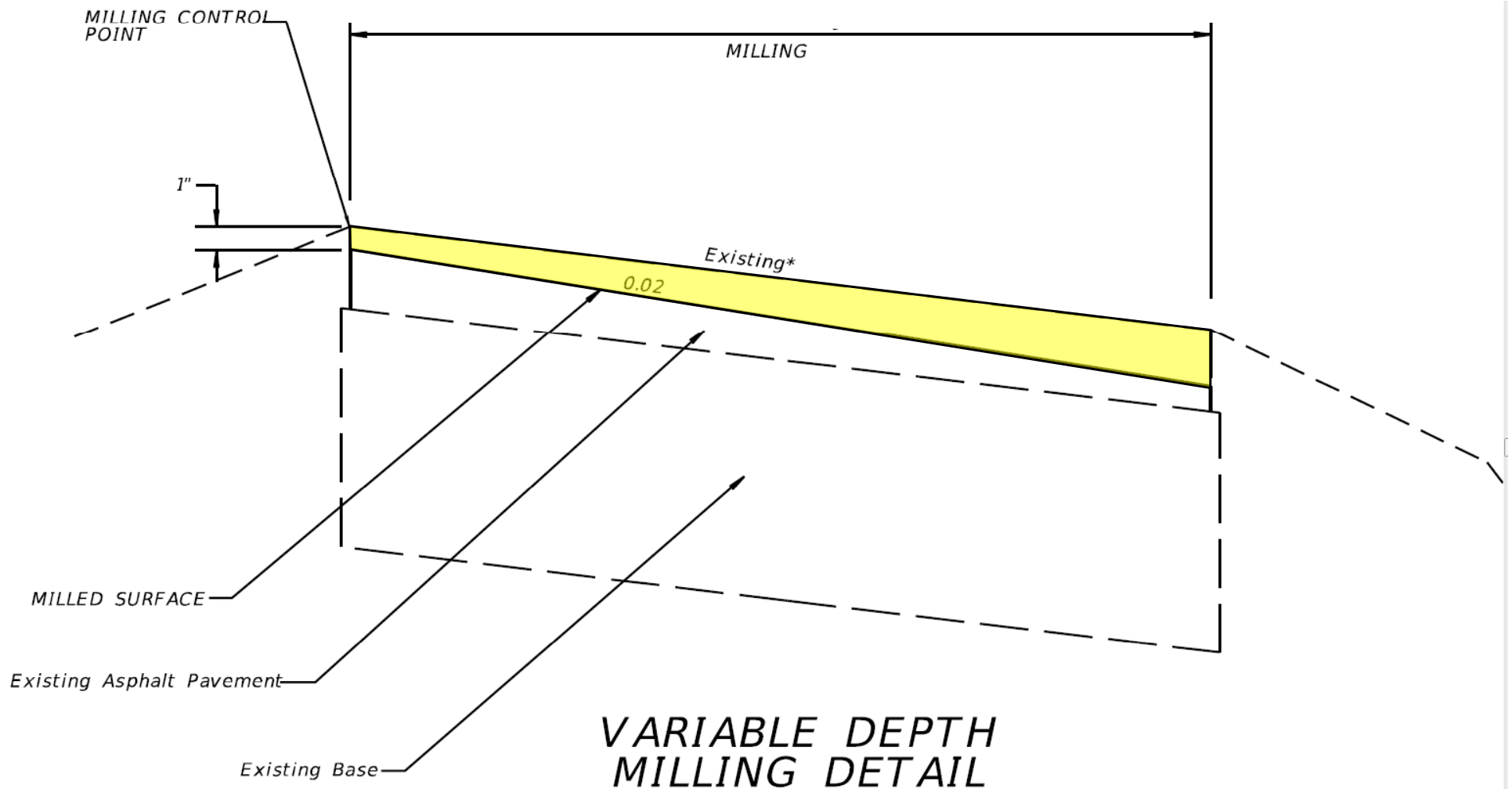
0.03 for design speeds greater than 45 mph.

The change in cross slope between adjacent through lanes shall not exceed 0.04

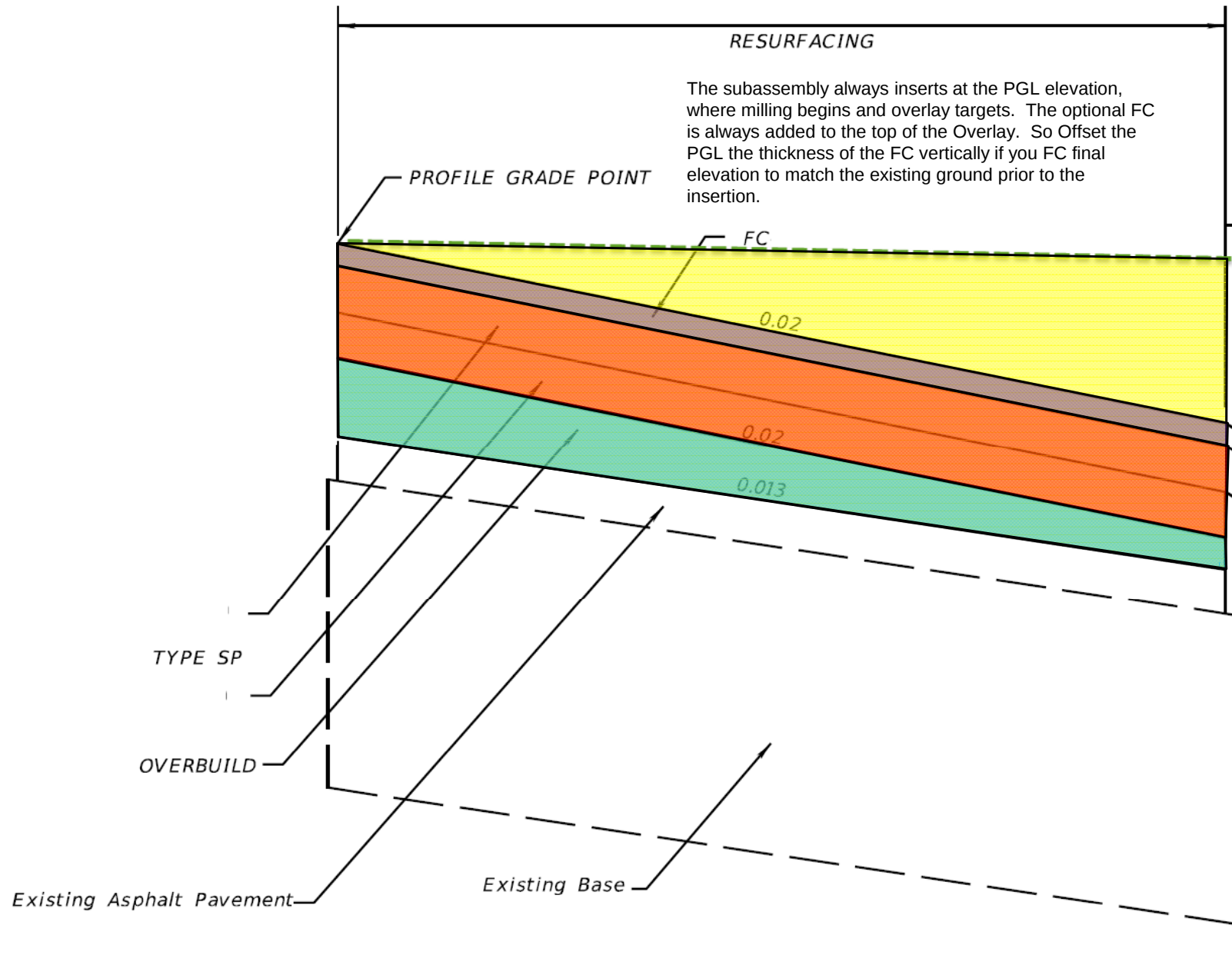


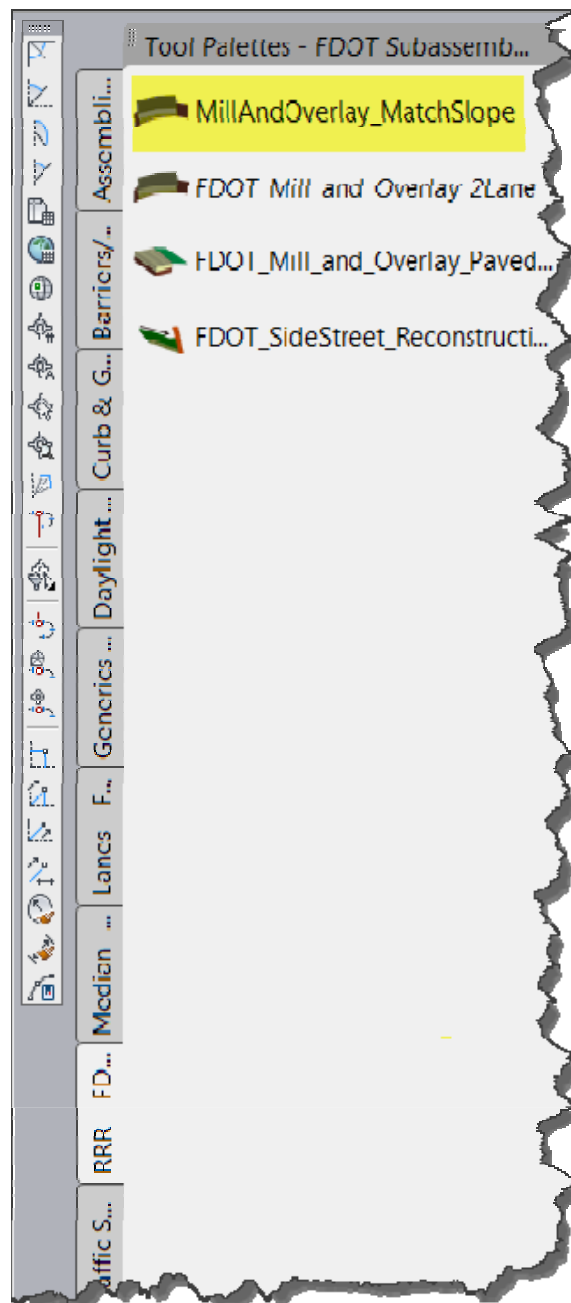
All Travel Lanes One Direction

Variable Depth Milling



Variable Depth Milling and Overbuild





Properties

No selection

Information

General

Data

ADVANCED

Parameters

Side	Right
PavementStructureWidth	12.00
UseOffsetSamplePoints	Yes
InsideSampleOffset	0.00
OutsideSampleOffset	0.00
DesiredSlope	-2.00%
AllowableUpperSlopeTolerance	0.50%
AllowableLowerSlopeTolerance	0.50%
DesiredSuperelevation	CurrentSideInsideLane
MillDepth	0.33
MinMillDepth	0.00
MaxMillDepth	0.67
MinimumOverbuildThickness	0.04
MaximumOverbuildThickness	1.00
OverlayThickness	0.33
FrictionCourseThickness	0.00
HoldOverlayAtAnchorPointElevation	Yes
FlipSuperFromTarget	No
LayoutModeVirtualSurfaceSlope	-2.00%
LayoutModeDeltaElevationToSurface	0.00
MillAndOverlayGeometryLogFile	.\@corr\@sa_GeometryLog.csv
ErrorLogFilename	.\@corr\@sa_ErrorLog.txt
TraceTag	NullValue

Design

Display

Extended Data

Object Class