

AUTODESK® CIVIL 3D

# Dynamic 3D Computer-aided Design with Autodesk Civil 3D

Training Course for:  
Autodesk® Civil 3D™ 2007



## Lecture 9 – Supplementary Notes Create Corridor by Assembly Offset

August 2006

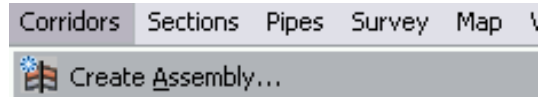
Autodesk®

## Objective

This document describes the steps to Create Corridors by Assembly offset in Civil 3D.

## Exercise

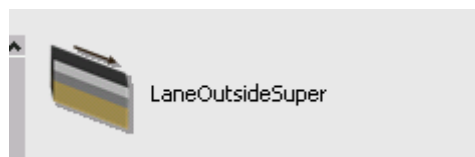
1. Open the 「Lecture 9 - corridor 2.dwg」 drawing
2. In the menu Toolbar, select 「Corridors」 → 「Create Assembly」



3. In the dialog box, enter the name and press [OK]



4. Select to right bottom space
5. In the Toolpalettes, select 「LandOutsideSuper」



6. Set 「Right」 side and width 「13m」

ADVANCED	
Parameters	
Lane Slope	-2.000%
Version	R2007
Side	Right
Crown Point on Inside	No
Width	13.000m
Default Slope	-2.000%

7. Select to assembly right hand side



8. In the Toolpalettes, select 「BasicLaneTransition」



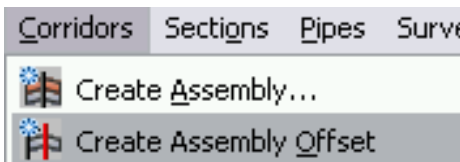
9. Set 「Left」 side, width 「30m」 and select transition 「Hold gradient, change offset」

ADVANCED Parameters	
Version	R2007
Side	Left
Default Width	30.000m
Depth	0.200m
Default Slope	-2.000%
Transition	Hold gradient, change offset

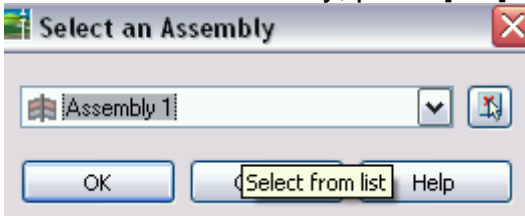
10. Select to assembly left hand side



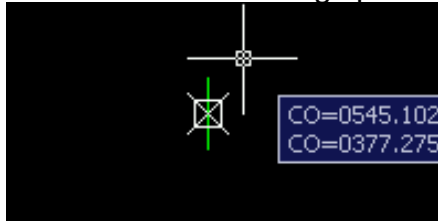
11. In the menu Toolbar, select 「Corridors」 → 「Create Assembly Offset」



12. Select the assembly, press [OK]



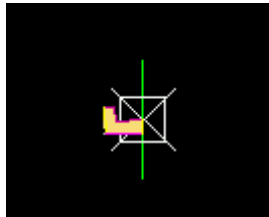
13. Click in the drawing space



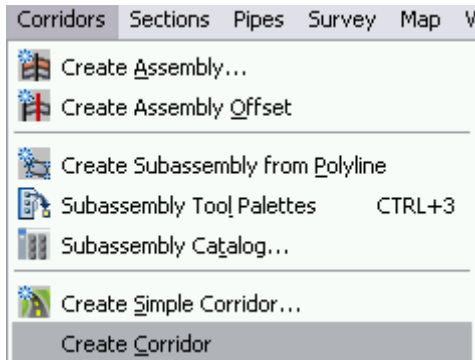
14. In the Toolpalettes, select 「BasicKerbAndChannel」



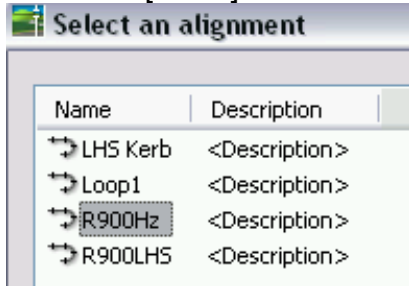
15. Set 「Left」 side, select the offset assembly



16. In the menu Toolbar, select 「Corridors」 → 「Create Corridor」



17. Press [Enter] to select Alignment (e.g.R900Hz)





18. Press [Enter] to select Profile (e.g.R900Hz)

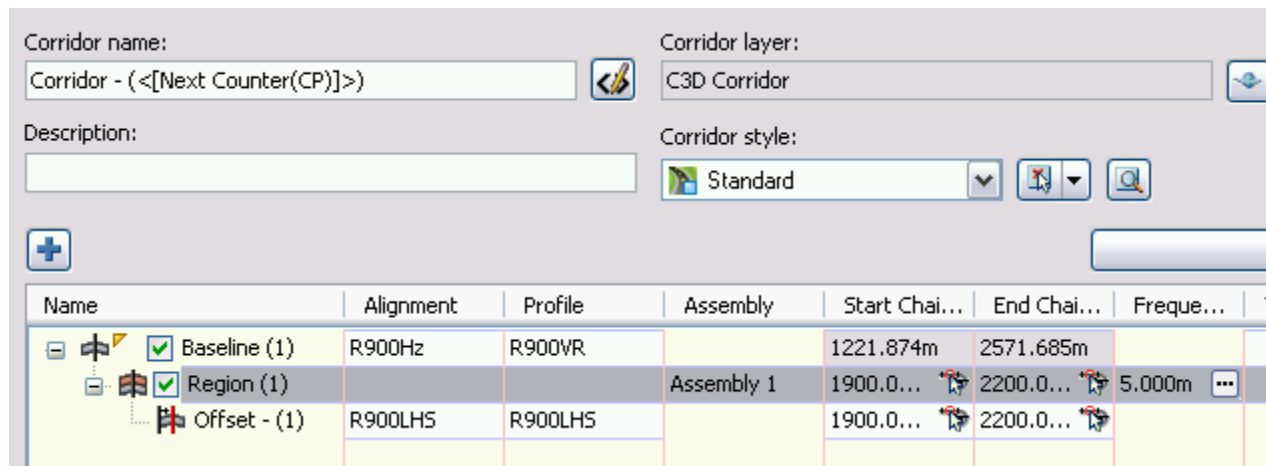


19. Press [Enter] to select Assembly (e.g. Assembly 1)



20. In dialog box :

- enter the corridor name
- in bottom box, select the baseline, enter the region (1) start & end chainage (1900 – 2200)
- click frequency  icon set straight, curves, transition & profile curves (5m.)
- click target  icon set transition alignment & profile (R900HLS)
- select offset (1), set alignment & profile [R900LHS]
- set start & end chainage (1900 – 2200)
- press [OK]



<b>Apply Assembly</b>	
Along straights	5.000m
Along curves	5.000m
Along transitions	5.000m
Along profile curves	5.000m
At horizontal geometr...	Yes
At superelevation criti...	Yes
At profile geometry po...	Yes
At Profile High/Low poi...	Yes

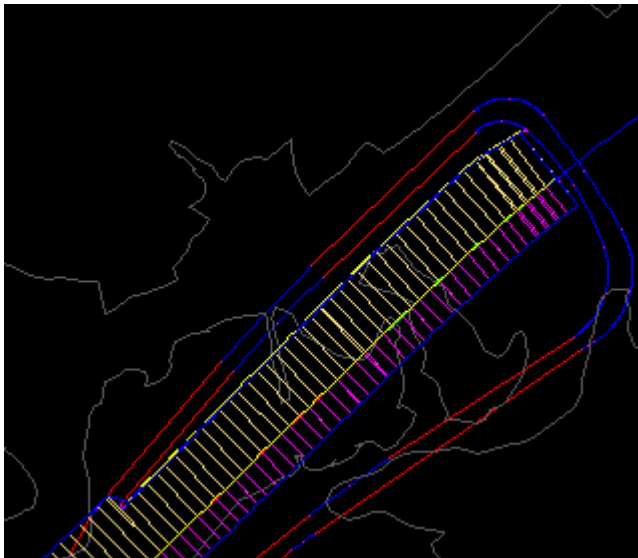
**Target Mapping**

Corridor name:

Assembly name:       Start Chainage:       End Cha

Target	Object Name	Subassembly	Assembly Group
Surfaces	<Click here to set all>		
Alignments			
Width Alignment	<None>	LaneOutsideSuper - (3)	Group - (1)
Transition Alignment	R900LH5	BasicLaneTransition ...	Group - (2)
Profiles			
Outside Level Profile	<None>	LaneOutsideSuper - (3)	Group - (1)
Transition Profile	R900LH5	BasicLaneTransition ...	Group - (2)

21. Zoom out the drawing



22. Close the drawing file. Do not save the change