

AUTODESK® CIVIL 3D

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

Training Course for:  
Autodesk® Civil 3D™ 2007



## Lecture 9 – Supplementary Notes Create Grading by Drawing

August 2006

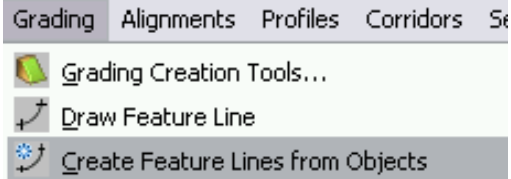
Autodesk®

## Objective

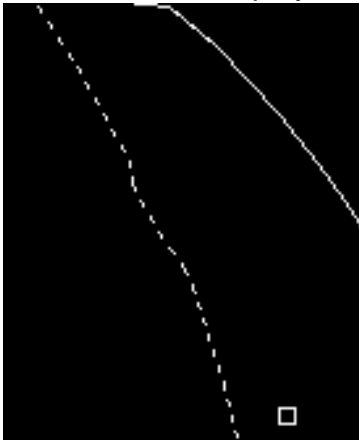
This document describes the steps to Create Grading by Drawing in Civil 3D.

## Exercise

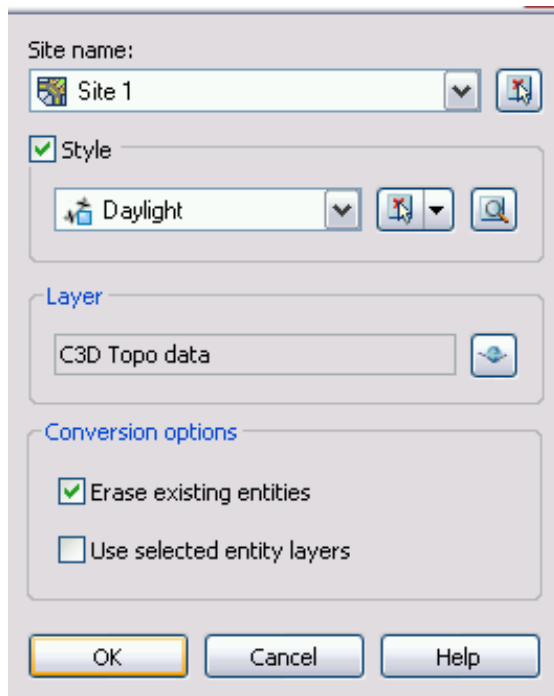
1. Open the 「Lecture 9 Grading.dwg」 drawing
2. In the menu Toolbar, select 「Grading」 → 「Create Feature Line From Objects」



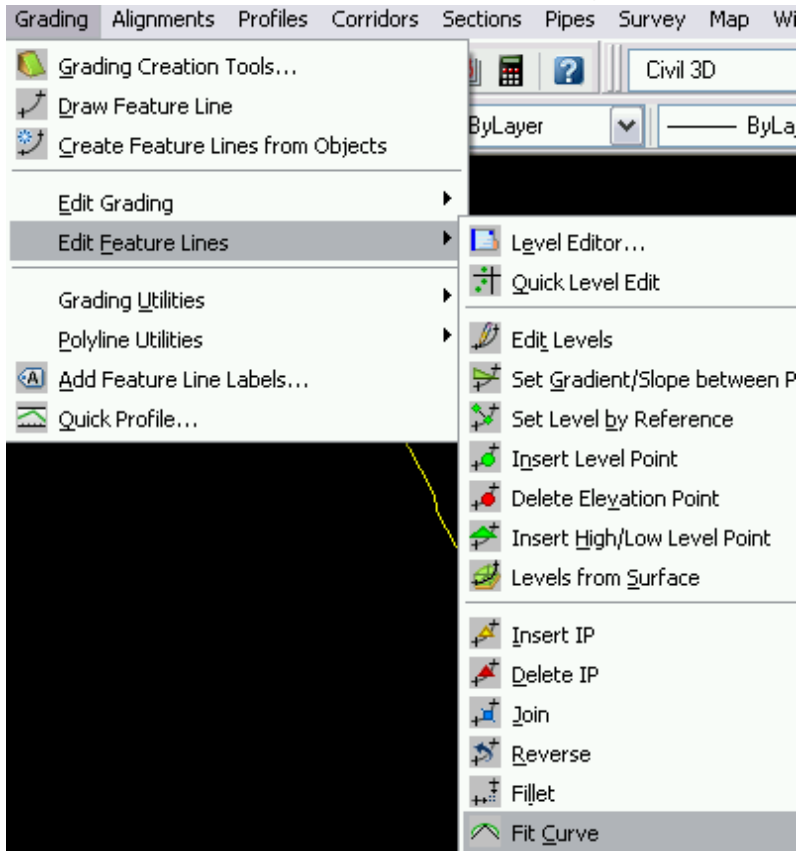
3. Select the 3D polyline in the drawing, right click 「Enter」



4. In the dialog box, set the style 「Daylight」, press 「OK」



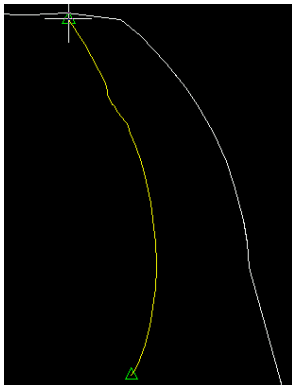
5. In the menu Toolbar, select 「Grading」 → 「Edit Feature Lines」 → 「Fit Curve」



6. Select the feature line, enter point

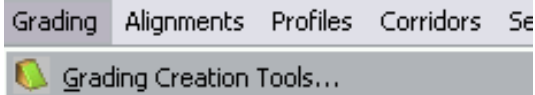
```
Command:
Command:
Select a feature line, survey figure or polyline:
Specify point or [Points/Options]: point
```

7. Select the line start point & end point to fit the curve, press 「Yes」

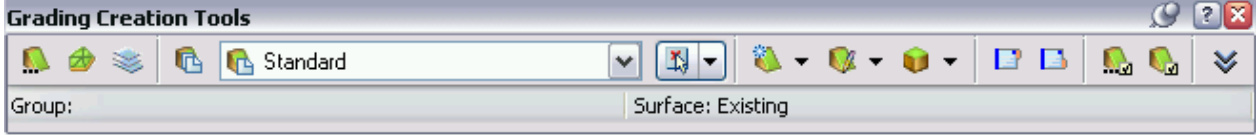


```
Select a feature line, survey figure or polyline:
Specify point or [Points/Options]: point
Specify the start point:
Specify the end point:
```

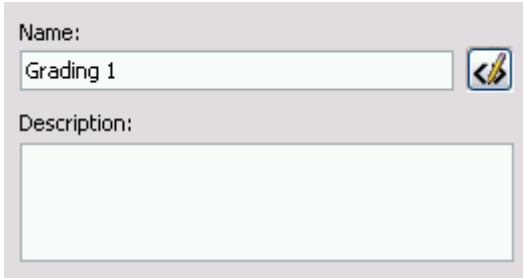
8. In the menu Toolbar, select 「Grading」 → 「Create Feature Line From Objects」




9. In the Grading Creation Tools, click  icon create grading group




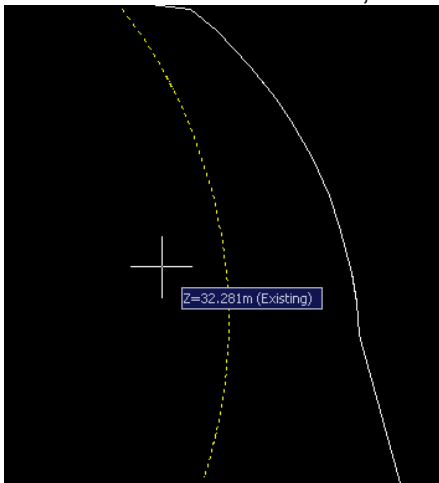
10. Enter the group name (e.g. Grading 1), press 「OK」



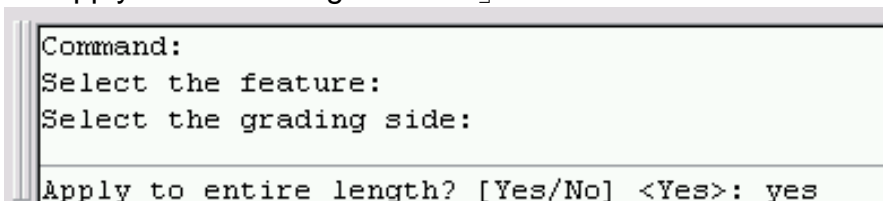
11. Click  icon setting the criteria set, select 「Basic Set」, press 「OK」



12. Click the  icon create grading  
13. Select the feature line, select the grading site

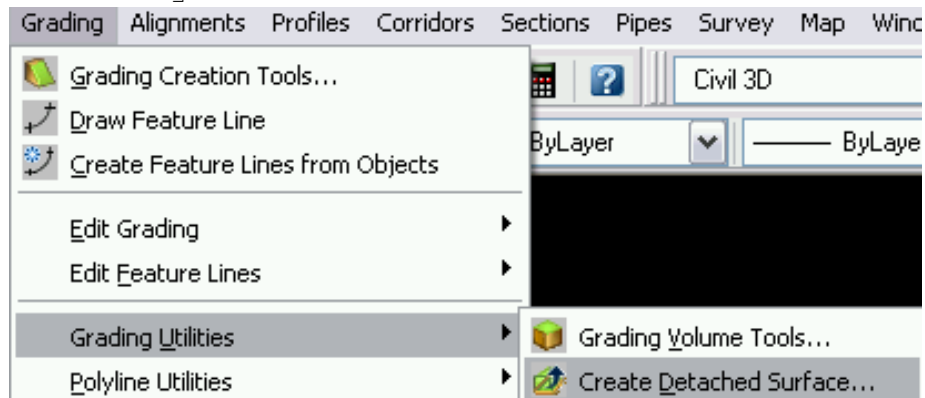


14. Apply the entire length 「Yes」



15. Close the Grading Creation Tools

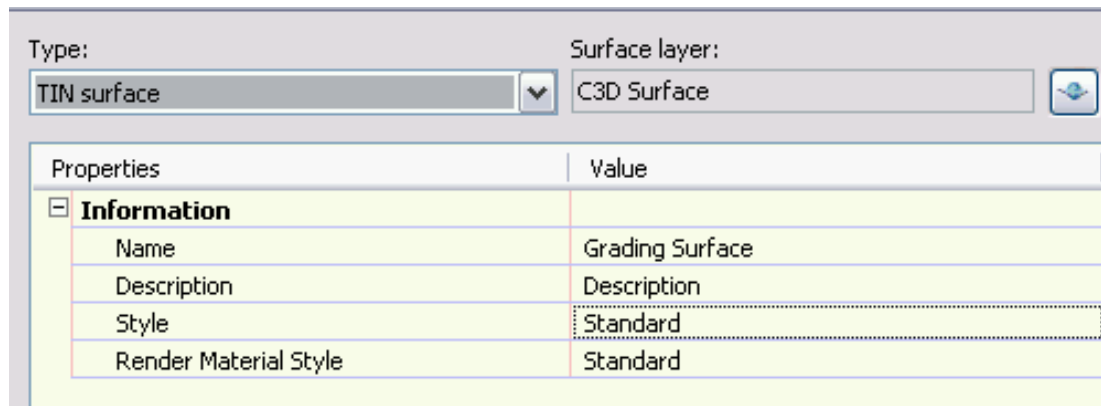
16. In the menu Toolbar, select 「Grading」 → 「Grading Utilities」 → 「Create Detached Surface」



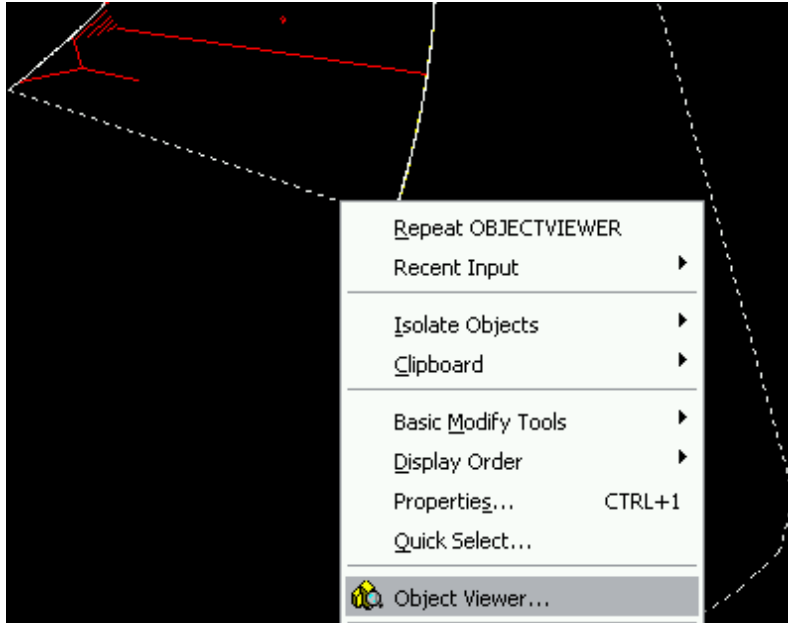
17. Set the site & group, press 「OK」



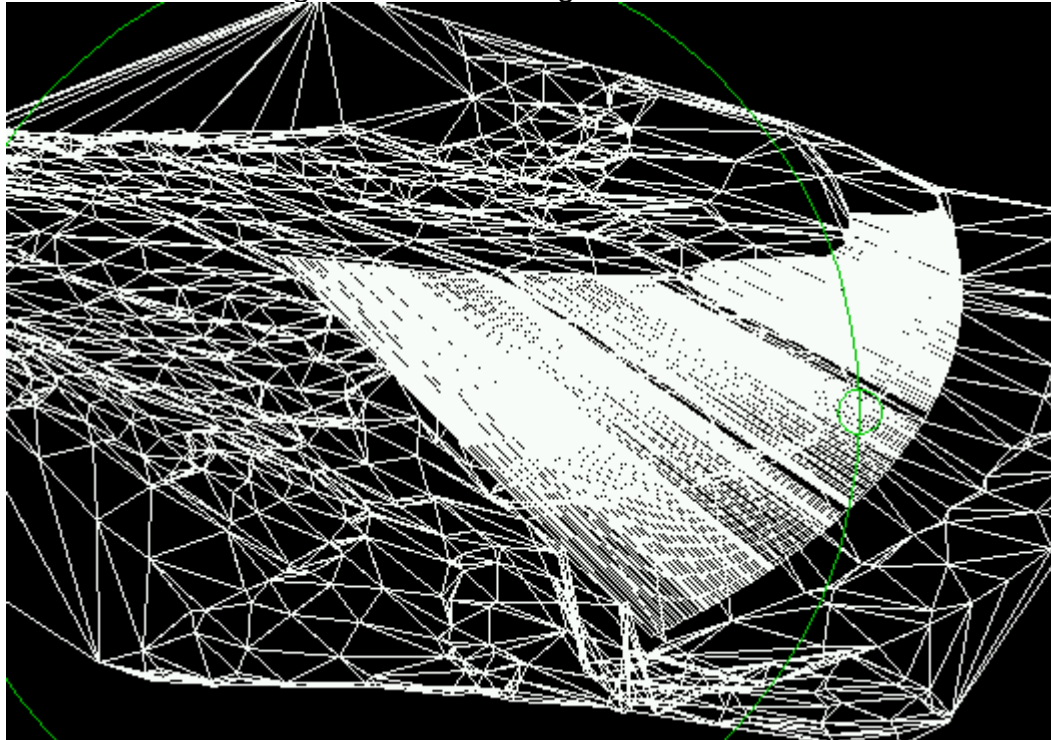
18. Enter the surface name (e.g. Grading Surface), press 「OK」



19. Select the Grading Surface & Existing Surface, right click 「Object Viewer」



20. Show the Grading surface & Existing surface



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