

AUTODESK® CIVIL 3D

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

Training Course for:
Autodesk® Civil 3D™ 2007



Lecture 9 – Supplementary Notes Setting Grading style by Drawing

August 2006

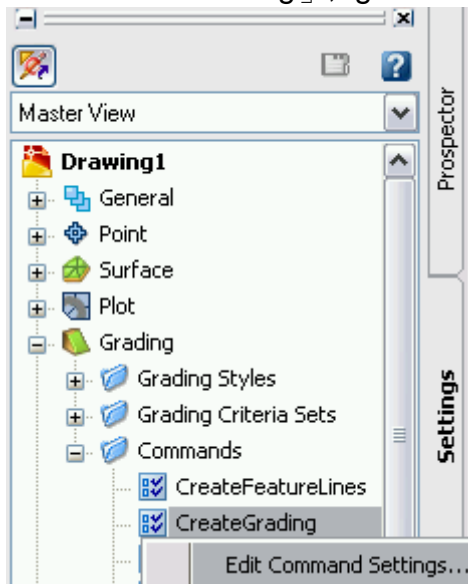
Autodesk®

Objective

This document describes the steps to setting grading style in Civil 3D.

Exercise

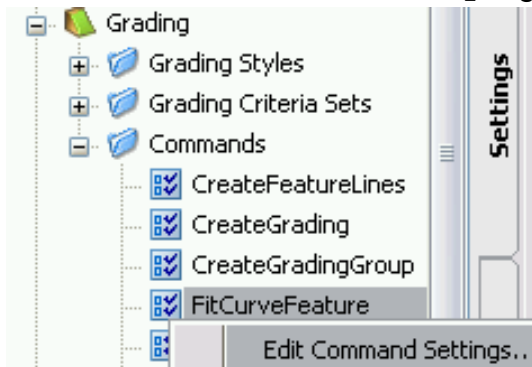
1. Open the Civil 3D
2. Select the toolspace 「Setting」 type, expand 「Grading」 → 「Commands」 → 「CreateGrading」, right click 「Edit Command Setting」



3. In the dialog box,
 - can setting the 「transition region length」 (e.g. standard default 10m)
 - setting the style & group name
 - press 「Cancel」 close the box

Property	Value	Override
General		
Labeling		
Labeling Prompt Method	Command Line	<input type="checkbox"/>
Grading Creation		
Transition Region Length	10.000m	
Default Styles		
Feature Line Style	Daylight	<input type="checkbox"/>
Grading Style	Standard	<input type="checkbox"/>
Cut Slope Grading Style	Cut Slope Grading	<input type="checkbox"/>
Fill Slope Grading Style	Fill Slope Grading	<input type="checkbox"/>
Default Name Format		
Grading Group Name Template	Grading Group <[Next...	<input type="checkbox"/>

4. Select the 「FitCurveFeature」, right click 「Edit Command Setting」

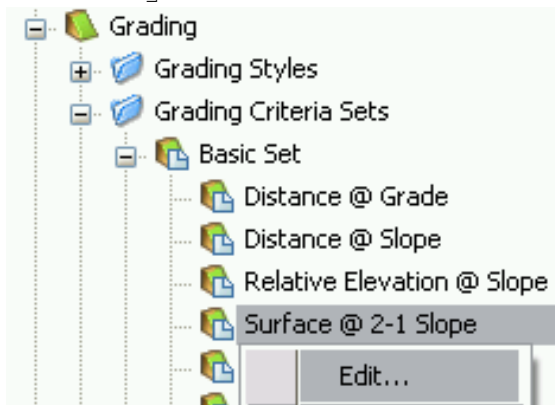


5. In the dialog box, can setting the curve tolerance (e.g. standard default 0.01)

Property	Value
General	
Labeling	
Feature Line Fit Curve	
Tolerance	0.010
Minimum Number of Segments	3

6. Press 「Cancel」 close the box

7. Expand 「Grading Criteria Sets」 → 「Basic Set」 → 「Surface @ 2-1 Slope」, right click 「Edit」

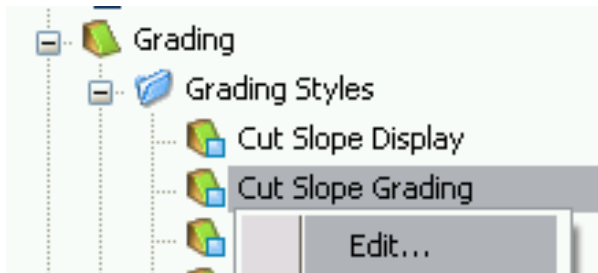


8. In dialog box 「Criteria」 type:

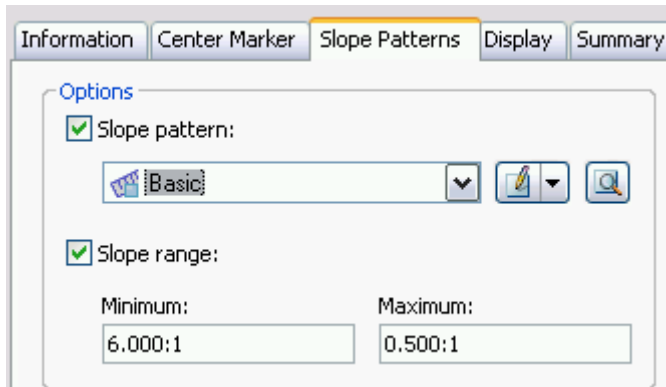
- set the target value to compute the grading (e.g. Surface)
- set the projection (e.g. Cut/Fill Slope)
- set up the Cut & Fill slope gradient
- press 「Cancel」 close the box

Parameter	Value
Grading Method	
Target	Surface
Projection	Cut/Fill Slope
Search Order	Cut first
Cut Slope Projection (up)	
Format	Slope
Slope	2.000:1
Fill Slope Projection (down)	
Format	Slope
Slope	2.000:1

9. Expand 「Grading Styles」 → 「Cut Slope Grading」, right click 「Edit」



10. In dialog box 「Slope Patterns」 type, can setting slope pattern & range, press 「Cancel」 close the box.



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