

# LAND DESKTOP

## Operating Procedures and Tips

### Drawing a finished grade line (FG) on an existing ground profile

#### Menu Symbols

*MB* Menu Bar  
*PDM* Pull Down Menu  
*DB* Dialog Box  
*FCW* Floating Command Window  
*FO* Fly-Out Menu

#### Definitions

**Italics in block** = user input

< xxx > = default value

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This procedure makes the following assumptions: The user has basic AutoCAD skills. The user has created or opened a drawing with an Existing Grade (EG) line.

1

Load the Civil Design menu palette

*MB* **Projects**  
*PDM* **Menu Palettes**  
*DB* **Menu Palette Manager**

Select **Civil Design**.

Select the **Load** button.

2

Select the alignment to work on

*MB* **Profile**  
*PDM* **Select Alignment**

*FCW* **Alignment name:** **Enter**

*DB* **Alignment Librarian**  
Highlight the name of the alignment to be worked on.

Select the **OK** button.

3

Begin placing the finished grade (**FG**) line under the existing grade (**EG**)

This method of establishing the **FG** automatically creates a layer named **PFGC**, and makes it the current layer.

*MB* **Profile**  
*PDM* **FG Centerline Tangents**  
*FO* **Create Tangents**

FCW **Select point (or station):**   
Either use the crosshairs to select a starting point on the screen, or type (**S**) to force a prompt to allow you to enter a specific station.

FCW **Station < 0 >:**  to accept the default station or type in a station.

FCW **Elevation < 3400 >:** enter to accept the default elevation or type in an elevation.

FCW **Select point (Station/eXit/Undo/Length):**

**Station:** prompts you for the station of the next point  
**eXit:** no further points to select. End the command.  
**Undo:** deselect the last point (so you can reselect the point)  
**Length:** set the next point at a specific length from the last point set.

FCW **Enter Station:** enter station of next point

FCW **Select point: (Grade/Elevation/Undo/eXit):**   
**Grade:** prompts for a grade % to draw out to the next point  
**Elevation:** prompts for a specific elevation to set the next point at  
**Undo:** unselect the last point (so you can reselect the point)  
**eXit:** no further points to select. End the command.

FCW **Grade (%):**  (-) and (+) grades may be input

A line is drawn from 0+00 to 1+00 at a -.5% grade.

FCW **Select point: (Station/eXit/Undo/Length):**

Continue extending the finished grade line from station to station using this method.

Experiment and practice using the grade and length options.  
The line you are drawing can always be erased and started over.