

# 11 Procedures

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## 11.1 EROSION CONTROL PLANS

Create contours for Erosion Control Plans

The Contours for the Erosion Control plans are created from the final design cross sections.

### 1. DTM Proposed 3D Report

Must be in the cross section file to use cross section reports.

*See Geopak User Manual – Creating DTM input from Existing & Proposed Cross section file*

2. Create a new file for the erosion control contours.  
(1763cont.dgn)
3. Reference the strip map file to the new contour design file.

In the new file, open Geopak DTM  
*See Geopak User Manual – Existing Ground*

4. Build Triangles to create a new tin file.

*See Geopak User Manual – Create Digital Terrain Model*

5. The new triangles can now be loaded, for display only, in the new file to verify that all areas and cross sections were included in the new tin file.

6. Load Contours

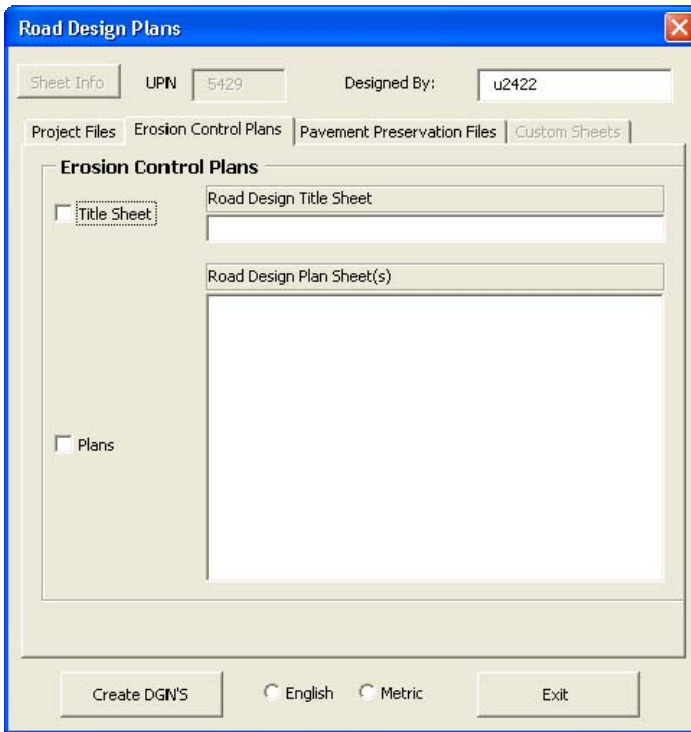
*See Geopak User Manual – Create Digital Terrain Model*

Draw new contours in the Design file.

Contour interval can be adjusted for flat terrain.

### 7. Erosion Control Plan Sheets

Go to the MDT macro menu, and click ROAD DESIGN. Click on Create DGNs and then go to the Erosion Control Plans table.



Contact Environmental section before finalizing the plan.

## **11.2 Utility Survey Map File**

The SUE survey file will be received by the Right of Way Utility section and put into our Cadd Access system by them. The SUE survey file will be named XXXXutsue###.dgn and reside in the Utility directory (UT). When this SUE Survey file is on our system the appropriated design areas will be notified. The SUE Survey will be referenced to the Road Design Strip Map and Right of Way Strip map (See page Chapter 3: References). MDT's SUE Consultant will do any changes to the SUE survey file and the appropriated design areas will be notified of the new file.

## **11.3 Color Plotting**

Use the default printer.plt file from Microstation (w:\plotting\printerhf2c.plt).

- A) Select Print\plot from the File menu.
- B) In the plot dialog Select File>Preview (or the paint brush)
- C) Select Setup>Driver (or the printer symbol with Question Mark)
- D) Select w:\plotting\printerhf2c.plt as you driver. After you have selected the new driver the plot preview will now be in color
- E) This should also attach the printer.c.tbl pen table. If not go to Pen Table button and load w:\plotting\printer.c.tbl.

## **11.4 The county maps and city maps for Title Sheets**

The county maps and city maps are found on \\astro\maps

- A) From Explorer select Tools>Map network drive, set path to \\astro\maps.
- B) Reference the County maps and Copy the elements needed to make the title sheet. Do not leave the county maps as a reference file since the map is such large file.

Incorporated and unincorporated cities can be found in the directories INC and NOINC.

### 11.5 Standard Font added symbols for MDT

Over the years we have added several symbols to Fonts 15 & 16.  
Listed below is a list of these symbols

Key Stroke	Symbol	Example	
		Font 15	Font 16
Shift 6	Degree	1 1°	1 1°
!	Plus/Minus	±	±
{	Sub S	1 1 <sub>s</sub>	1 1 <sub>s</sub>
}	Sub C	1 1 <sub>c</sub>	1 1 <sub>c</sub>
[	Square (2)	1 1 <sup>2</sup>	1 1 <sup>2</sup>
]	Cube	1 1 <sup>3</sup>	1 1 <sup>3</sup>
<	Theta	θ	θ
>	Delta	Δ	Δ
\127	Diameter		∅
\128	Plate		ℙ
	Center line	℄	℄

#### 11.5.1 Changing Fonts within a Text String

**Problem:** Some of the keys show different symbols than the key. Sometimes what's actually on the key is what is requested. To get that you need to change individual character's font within a text string.

**Fix:** This can be done by placing the text with one font and then get into the text editor. Select the text and highlight the character or characters to change. Click off the option "Apply changes to all text". Change the font and click in the screen to accept the changes.



## ***11.6 Making Picture file in Microstation to import into Word or PowerPoint***

For instructions on how to importing MicroStation pictures into Word and PowerPoint please visit this help sheet.

<https://www.mdt.mt.gov/other/webdata/external/CADD/CADD-Manuals/CADD-Standards/saving-microstation-pictures-in-word-ppt.pdf>

### **11.7 Capturing MicroStation dialog to import into word**

- 1) Setup MicroStation with the dialogs you wish to capture.
- 2) Press the *Print Screen* button on the keyboard.
- 3) Open Paint Brush
  - a. Start → Programs → Accessories → Paint
- 4) Paste the screen capture into Paint Brush (CNTL V)
- 5) Adjust the image to fit only the dialog you wish to save.
- 6) Save the image as a BMP
- 7) Import into Word
  - a. Inserts → Picture → From File