MONTANA
Department of Transportation

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MDT Civil 3D State Kit - Convert Feature Lines

YOUTUBE VIDEO DOCUMENTATION

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OVERVIEW

The **Convert Feature Lines** command will take feature lines extracted from a corridor, convert the information into 3D polylines, and place each 3D polyline on a unique layer based on the feature line name.

This command only works with feature lines created by the Civil 3D "Create Feature Line from Corridor" command. Feature lines created by any other method are not compatible with the **Convert Feature Lines** command.

The **Convert Feature Lines** command is developed and provided by MDT.

COMPANION DOCUMENTATION

YouTube Video Link: https://youtu.be/pjL8IVeDkKk?si=whpcuV_jf1WazH_v

USING THE COMMAND

Prerequisite Steps

Before the **Convert Feature Lines** command can be run, corridor feature lines **must be** extracted into a drawing created from the **cfl-misc.dwt** drawing template.

1. Start a new drawing using the **C:\MDOH\StateKit\Civil 3D\20xx\Templates\Misc\cfl-misc.dwt** drawing template.
2. **SAVEAS**
3. Associate the drawing with a project.
4. Data Reference a corridor into the drawing.
5. Extract feature lines from a corridor. **Ribbon > Home tab > Create Design panel > Feature Line menu > Create Feature Line from Corridor**
6. Select corridor feature lines or [All/by Regions/within Polygon]
    a. Choose selection option.
        i. All corridor feature lines.
        ii. Only feature lines selected by Regions.
        iii. Only feature lines that lie within Polygon.
7. The Extract Corridor Feature Lines dialog box will appear.
8. Select the corridor feature lines to be extracted in the Extract Corridor Feature Lines dialog box.
9. Click "Extract".
10. Corridor feature lines will be extracted and named in the format *<[Corridor Feature Code]>-<[Feature Side]>-<[Next Counter]>.*
11. Remove the corridor data reference.
12. **SAVE**

Using the Convert Feature Lines command

13. Type MDTCFLLAYER at the command line or press the Convert Feature Lines ribbon button.
14. Select Feature Lines extracted from a Corridor [Select/All] <Select>
15. Choose selection option.
    a. Select corridor feature lines individually.
    b. Select All corridor feature lines at once.
16. Each corridor feature line will be converted to a 3D Polyline and placed onto a layer named after each unique corridor feature line name.

Merge Layers

Each corridor feature line created with this workflow has a unique name, so there will be just as many unique layers created as there are corridor feature lines converted. This may not be desirable. It may be necessary to combine objects onto like layers for simplicity or before import into other applications.

The AutoCAD Layer Merge (**LAYMRG**) command merges objects from a set of source layers onto a target layer, then deletes and purges the source layers.

17. Type **LAYMRG** at the command line or **Ribbon > Home tab > Layers panel > Layers panel dropdown > Merge**.
18. Select object on layer to merge or [Name]:
19. Select layers by layer Name.
20. The Merge Layers dialog box will appear.
21. Select a set of source layers from the list to merge and delete. (*Use ctrl-select or shift-select to select multiple*.)
22. Click “OK” when done selecting.
23. The selection process will repeat at the command line.
24. Press **<enter>** to continue.
25. Select object on target layer or [Name]:
26. Select layers by layer Name.
27. The Merge to Layer dialog box will appear.
28. Select a target layer from the list.
29. Click “OK”.
30. Do you wish to continue? Yes or No?
31. Click “Yes” to merge layers.
32. Objects on source layers will be moved to the target layer.
33. Source layers will be deleted and purged.
34. Repeat steps 1-7 to merge additional sets of layers, if desired.