AS-BUILT TYPICAL SECTIONS PROCEDURE

Contents

Overview

Updating and Adding new Typical Sections for As-Built Plan Production.

Process Guide

Application/Tool(s):	AutoCAD / Civil 3D
Version(s):	13.8.1704.0 Civil 3D 2026.2.1
Environment:	MDT State Kit 2026.1.0
Released/Revised:	7/31/2026

SUPPORT
Open a Case

Statement of Need

This procedure demonstrates the steps necessary to create, amend, and finalize Typical Section Layouts for As-Built Construction Plans.

Revisions

7/31/2026	New Process Document

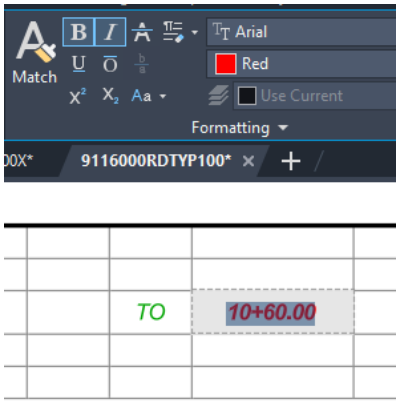
Typical Sections

Section I. Updating Stationing

Deviations in typical stationing altered during construction need to be updated on the As-Built plans.

Editing Stationing

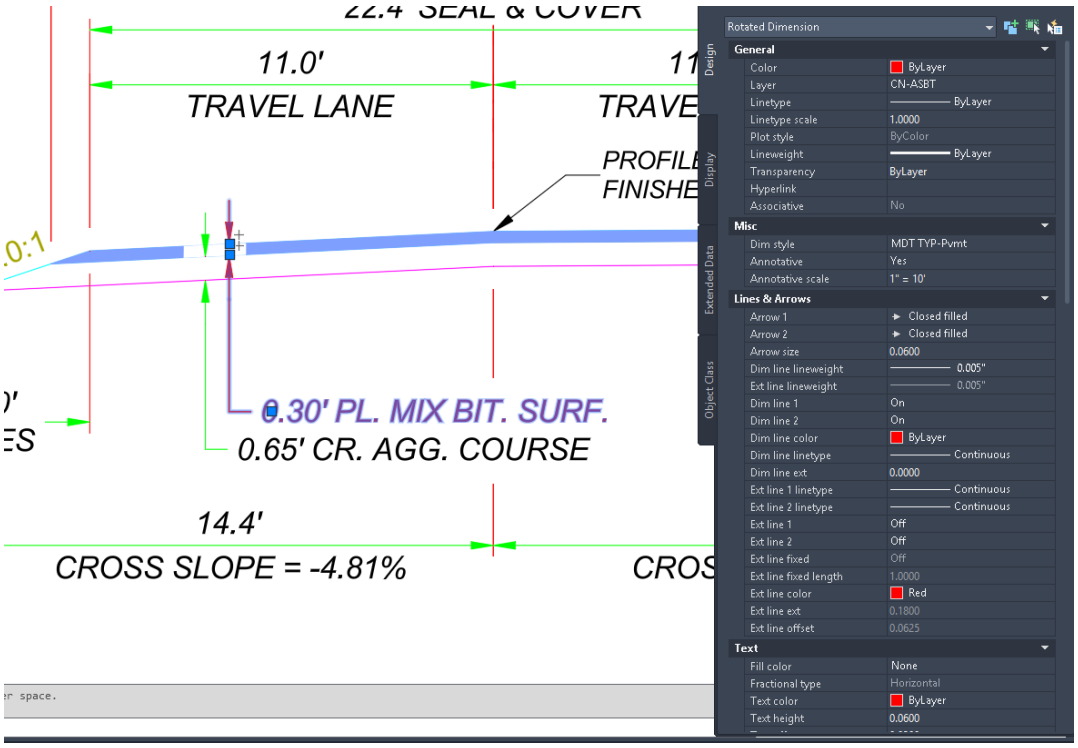
Edits to stationing are made in MODEL space, as Typical Sections are viewports in PAPER space. Access MODEL space by double-clicking inside the viewport or selecting the MODEL tab and double-click on the stationing text to be edited. The data will be in a table, edit the appropriate cells to make the edit. Verify that the text of the changed cell is MDT Arial, with Bold and Italic and the color is red. These changes are best made when the text in the cell is highlighted and changed from the Text Editor tab of the Ribbon in the Formatting group. Verify the edits are shown in the PAPER space viewport.



Section II. Updating Surfacing and Width Conditions

Surfacing Conditions

To update surfacing conditions, the process is similar to editing stationing where the updates are done in the MODEL space of the Typical Section drawing. To edit a surfacing layer/course such as CAC or PMS, double click on the text to be updated. Note that when a dimension is updated that any link to the model corridor will be broken. Update the dimension text appropriately and change the attributes to the appropriate Red color, bold and italicized MDT Arial Text and linework/dimensions shown on the CN-ASBT layer. The image below shows the rotated dimension with the color changed to red, layer on CN-ASBT. Note that in the Lines & Arrows group the 'Dim line color' was changed to 'ByLayer' and in the Text group the 'Text color' was changed to 'ByLayer'



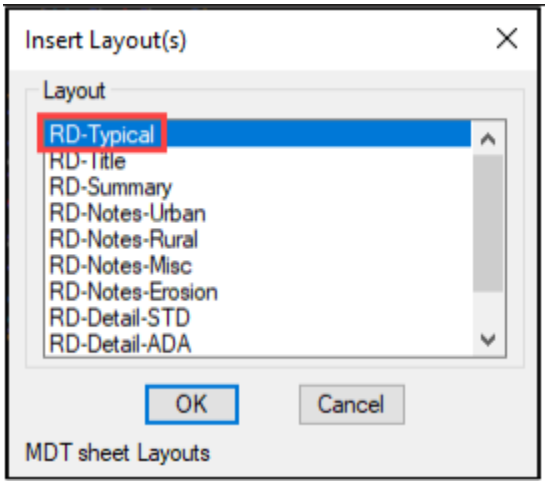
Section III. Adding New Typical Sections

If a new typical section is to be created, a copy from an existing Typical Section and edited in MODEL space to produce the new Typical Section.

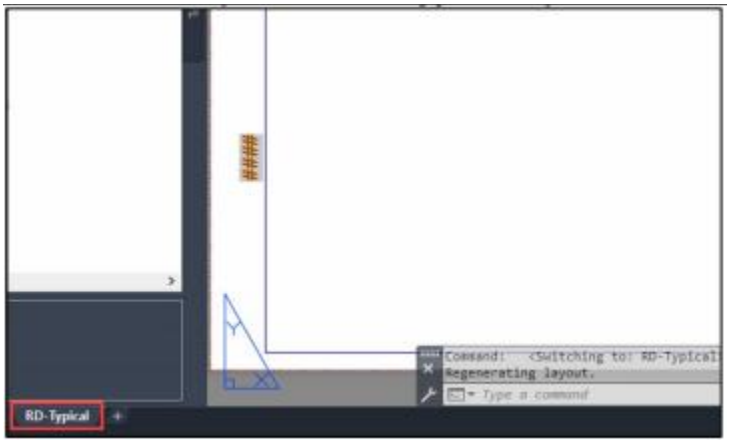
In MODEL space, select an existing typical section by using the lasso tool to select the existing typical section. Use the COPY command and select a base point, navigate to an open area of your model space and left click to place the copied typical section.

Make edits as necessary to reflect the typical being added. See above for changes in surface, width, and slope conditions. The edits changed from the existing typical to the new typical created are to be displayed as red.

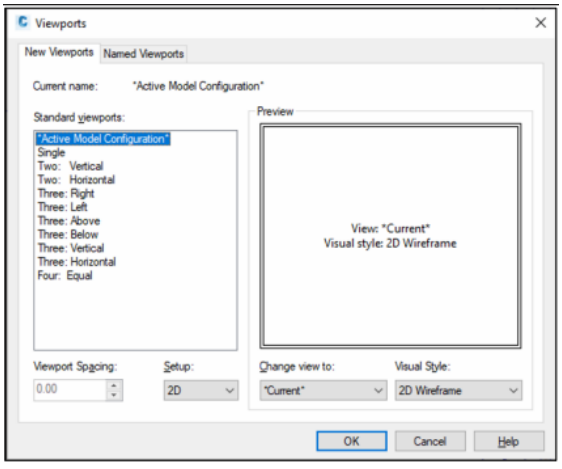
Once the Typical Section has been updated in MODEL space, navigate to the MDT Tools tab of the ribbon, then inside the MDT Sheets group, select the Road Layout RD-Typical.



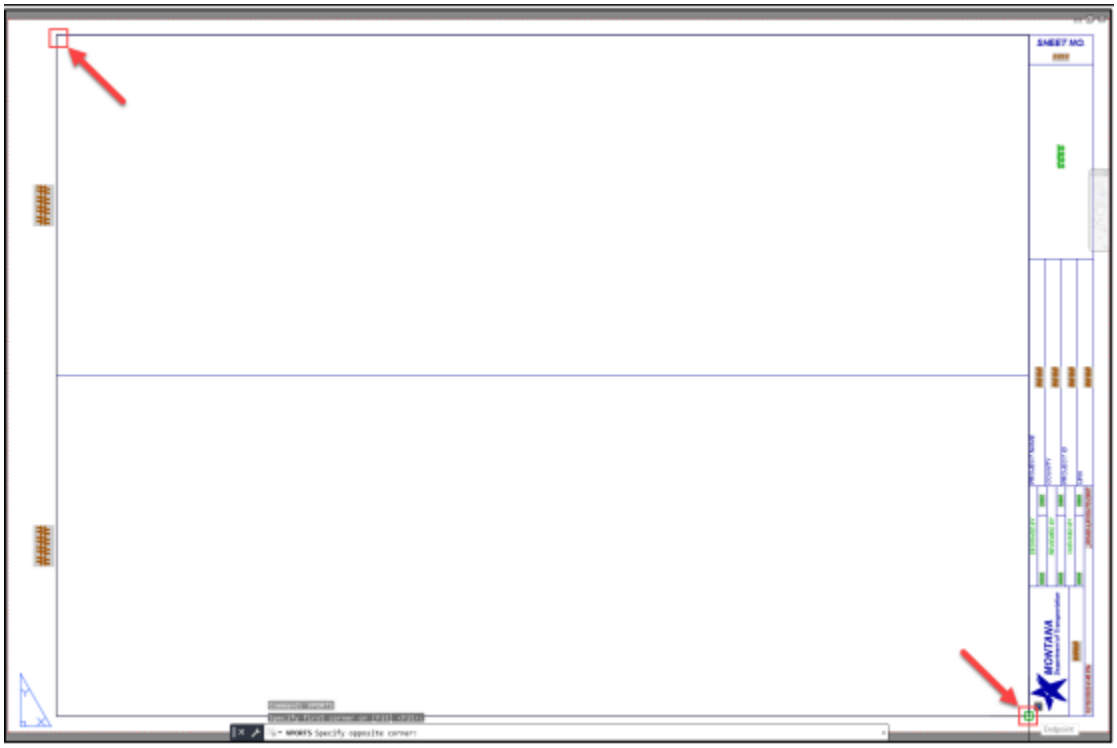
Select the newly added RD-Typical layout.



Create Viewport - While in the RD-Typical layout, set the active layer to GS-VPRT, then type the command VPORTS and press Enter. Accept the defaults (shown below) and select OK.



Select the corners of the border sheet as shown below:

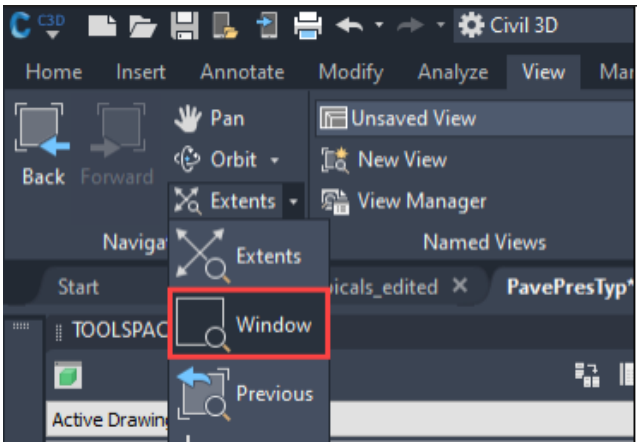


Bring Typical from Model Space into Layout.

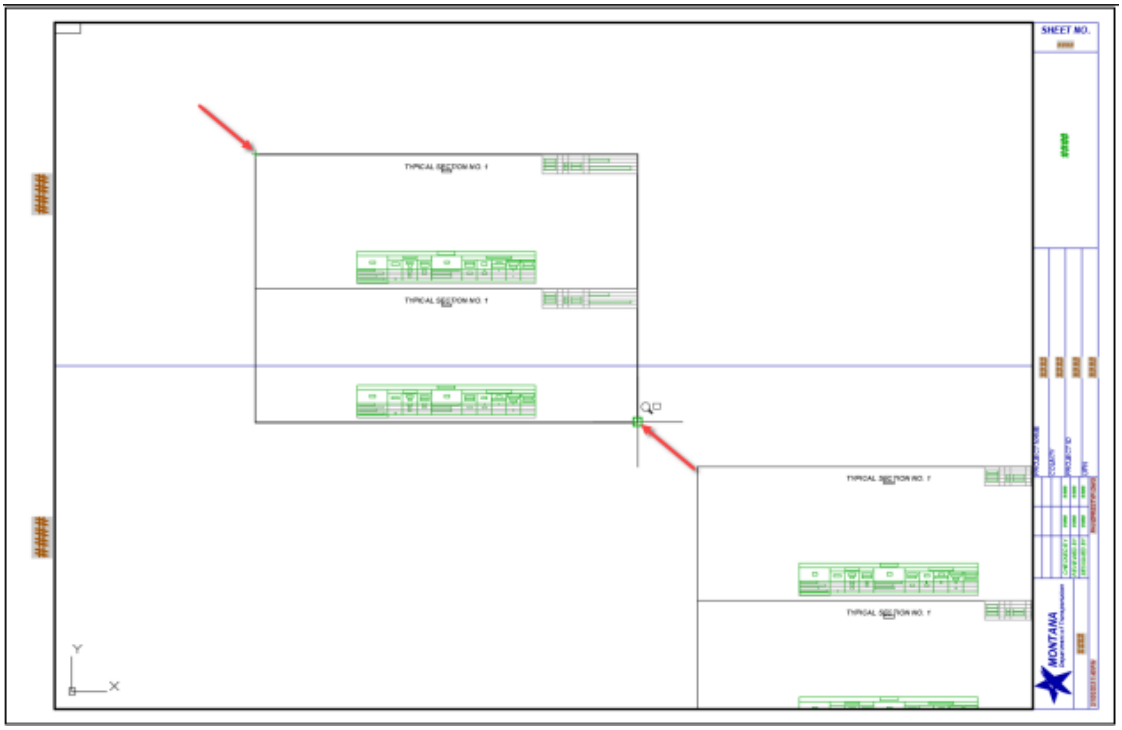
Double click inside of the newly created viewport to switch into Model Space. Scroll around until the extent of the newly created typical is within the viewport.

Set the scale of the viewport to 1"= 10' using the annotation scale in the Quick Access toolbar on the bottom of the screen.

Select the dropdown next to Extents from within the Navigate 2D panel in the View tab and select Window. The command ZOOM can also be used. Type of select W for window within the command.



With endpoint snaps turned on, select the upper left and lower right corners of the rectangle border.



Double click outside of the viewport to return to paper space.

Once complete, lock the viewport in the layout to avoid any accidental changing of the viewport scale while switching between the model and paper space. Select the viewport and select the viewport lock button in the Quick Access toolbar on the bottom of the screen.