

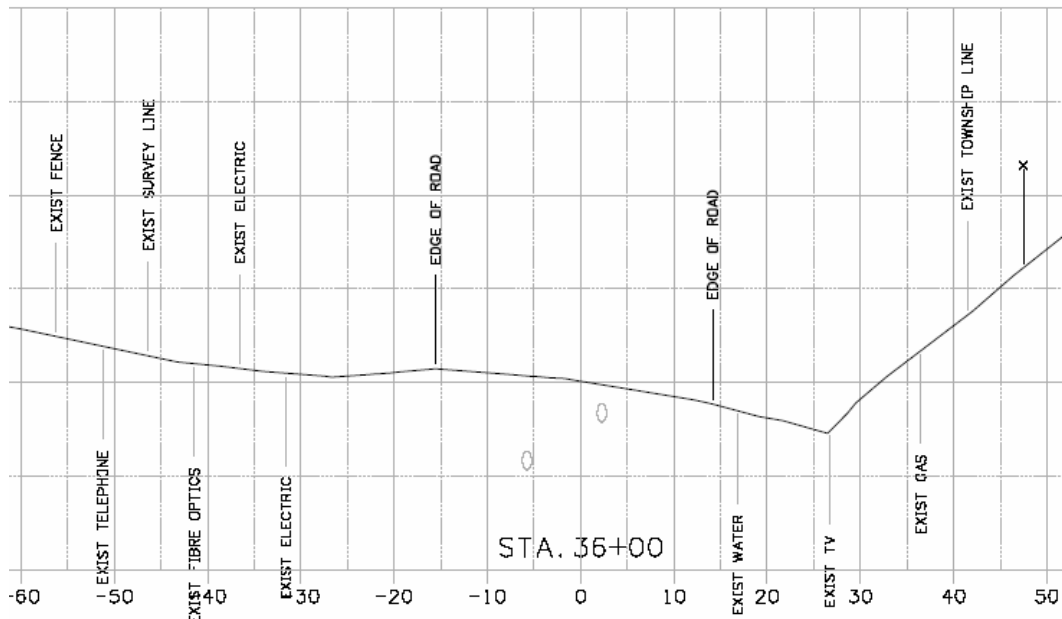
CDOT Displaying Features in Cross Section and Profile



This document is a guide for displaying features in both cross sections and profiles. There are two types of cells being placed. One type is based on true scale meaning that the feature has a measurable size. For example a 24" pipe. The other type of cell is the pictorial location of a crossing feature for example overhead electric line. In order to compensate for the two types each needs to be scaled differently. Feature Filters have been developed to display them at their appropriate scale.

Cross Section

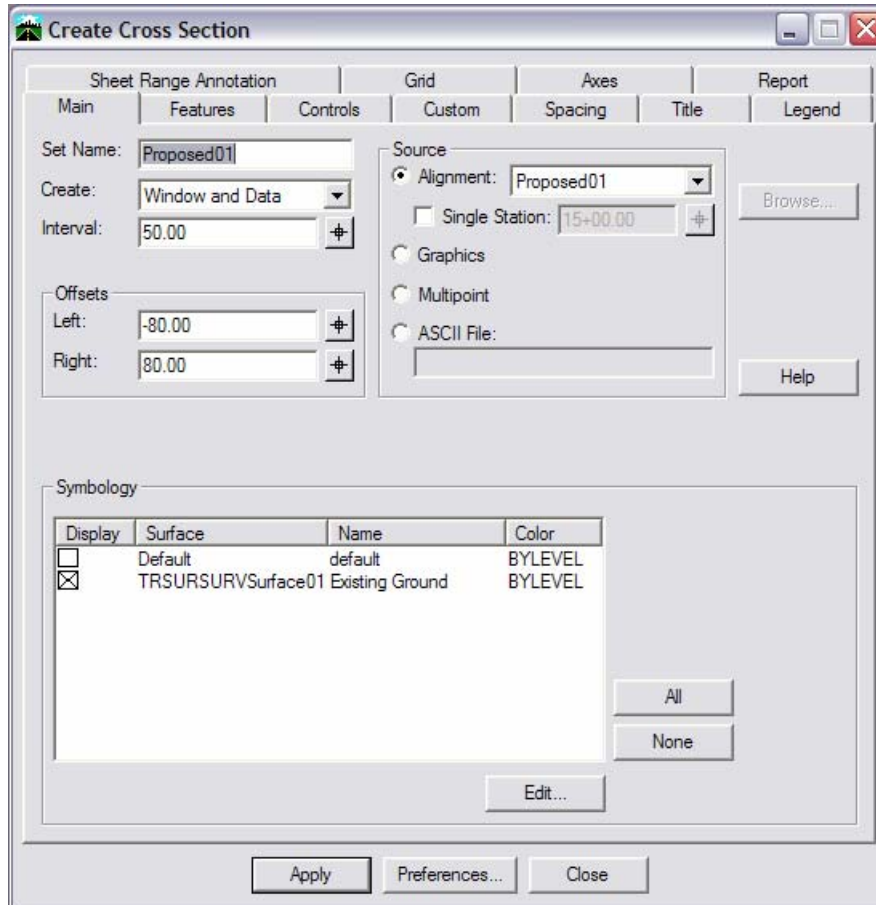
Displaying Features in Cross Sections



Note: Example Cross Section

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1. From the InRoads pulldown menu select, **Evaluation > Cross Section > Create Cross Section**. The Create Cross Section dialog will appear. Select the appropriate Preference for this example it will be CDOT.

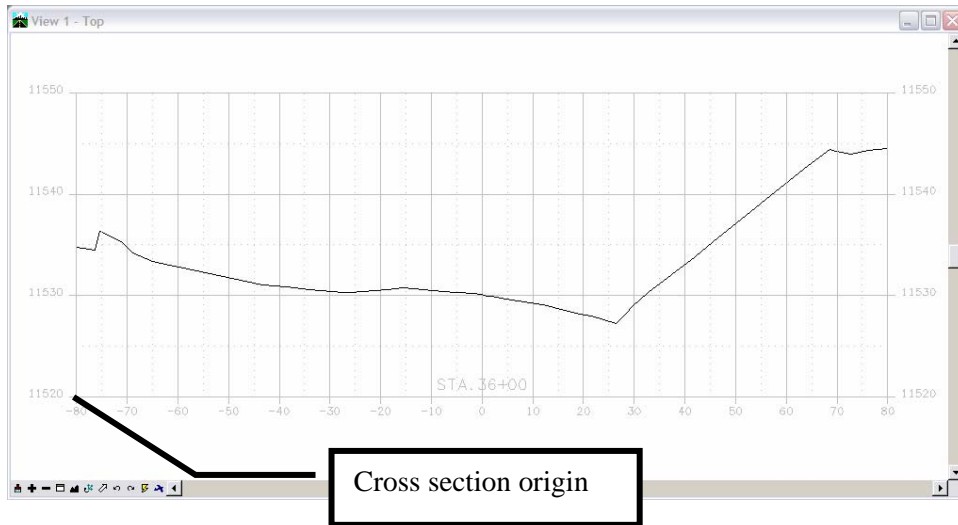


2. In the Create Cross Section dialog verify on the **Features** tab that **Include Features** is checked off.

Note: Verify that the Global Scale factor is set to the desired scale prior to creating the cross sections.

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3. Select the **Apply** icon. The dialog will minimize allowing the selection of the origin for the cross section set with a <D> in a MicroStation View. After the cross sections are created select **Close**.

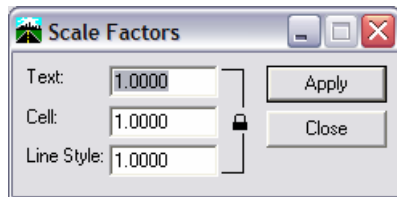


Display True Scale Cells

4. From the InRoads pull down menu Select **Evaluation > Cross Section > Update Cross Section**. The Update Cross Section dialog will appear.

The first set of features to display will be the features that are defined to be true scale. These have a defined size such as pipes. In order to display these types of features, setting the scale factor and feature filter is required prior to displaying.

5. Change the InRoads Scale Factor to 1.



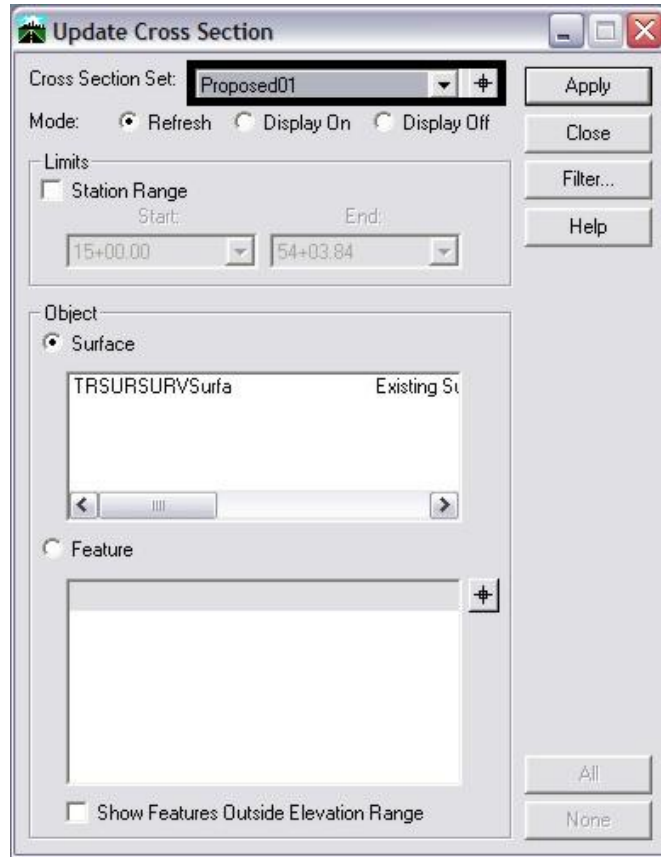
Note: Scale Factor is to be 1:1 so that cells come in at actual scale.

6. From the Locks toolbar Select **CELL_True-Scale** filter from the pull down list and toggle on the feature filter lock button.



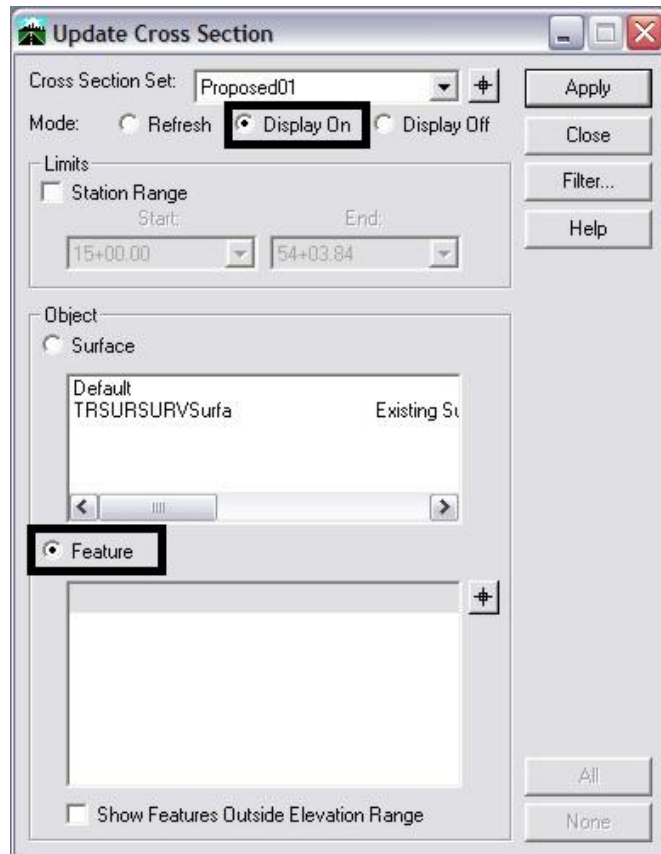
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7. Verify the correct Cross Section Set selected in the dialog.



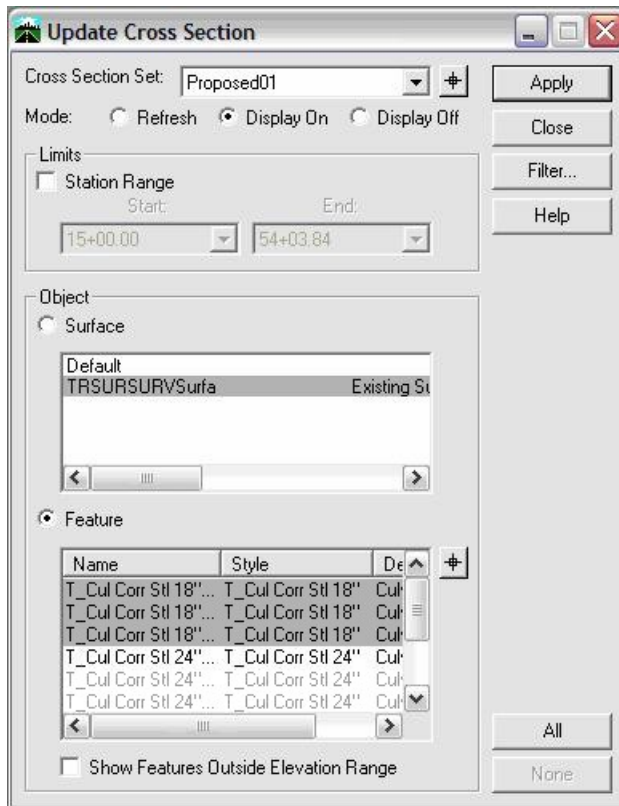
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8. Select the **Display On** radio button then the **Feature** radio buttons.



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9. Under the **Surface** section, select the surface name or names to display. The Feature list will populate with the list of features. Use the Ctrl key to select multiple names.

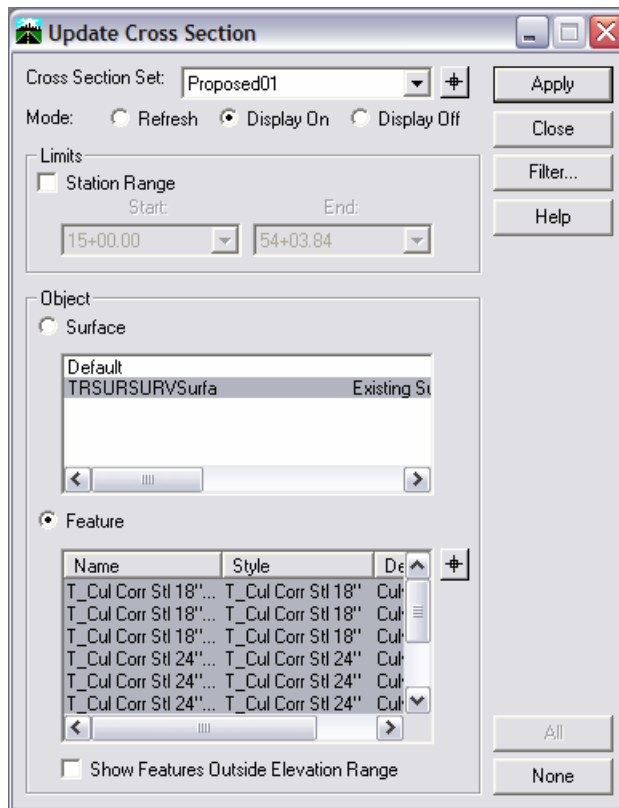


Note: The names in bold are Feature Styles that can be displayed in cross sections. Any names that are dithered are not configured to be displayed in a profile view.

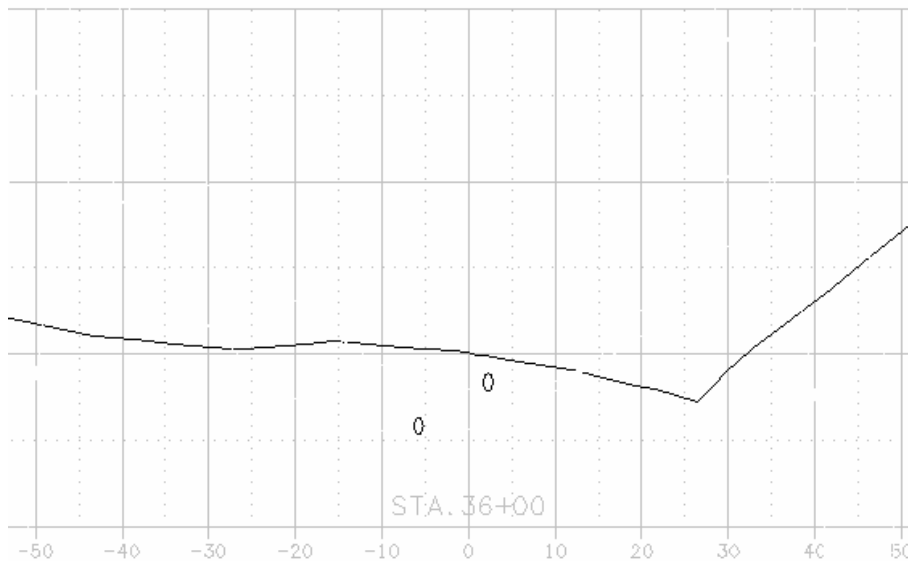
Note: If nothing shows up in the feature list portion of the dialog box, it means that there are no features that meet the criteria for the filter selected in step 6. It may be necessary to associate the correct feature styles to the desired features. Feature styles can be modified through the Feature Style editor on the Surfaces pulldown. See CDOT Update InRoads Features.pdf for more information.

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10. Select the **All** icon. The Features that can be displayed in cross section will be highlighted.



11. Select the **Apply** icon. The dialog will minimize as the features are generated in the cross sections, when it has completed the dialog will reappear.

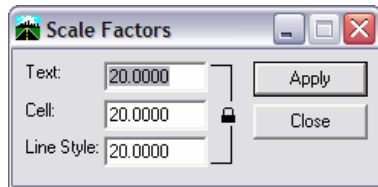


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Displaying Plot Scale Cells

The second set of features to be displayed are those that have location only defined with annotation. In order to display these types of features, set the scale factor and the desired feature filter prior to displaying.

12. Change the InRoads Scale Factor to 20.



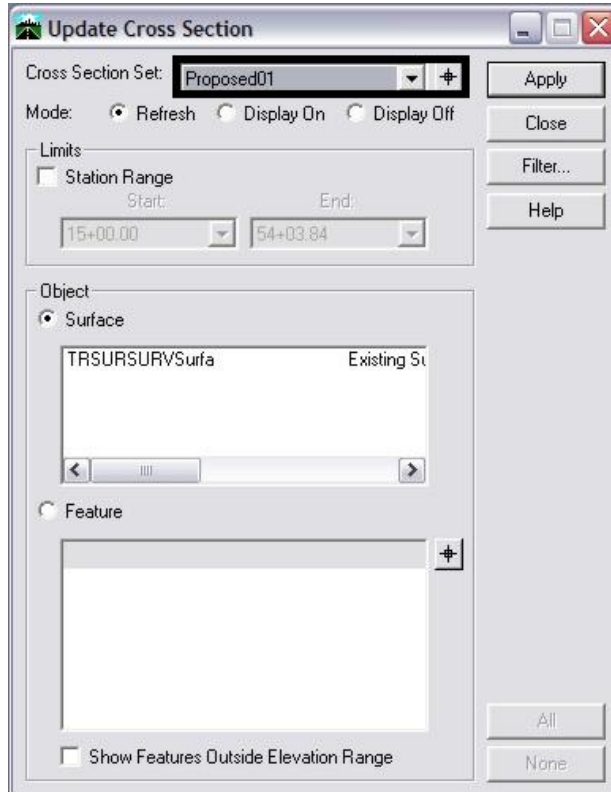
Note: This is the desired plot scale for this particular set of Cross Sections. Change scale accordingly to match the scale of the original cross sections.

13. From the **Locks** toolbar select *CELL_Plot-Scale* filter from the pull down list.



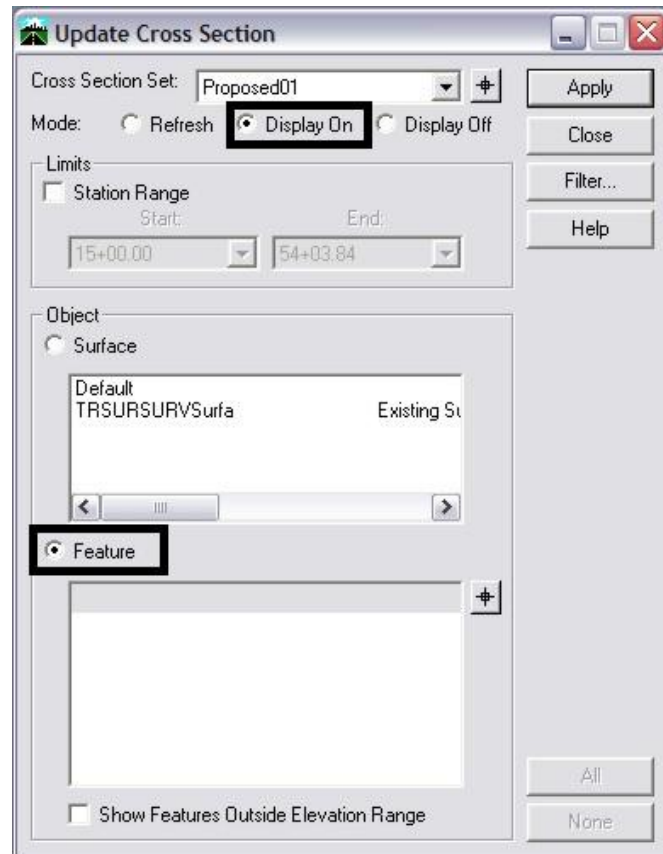
Note: Verify that the feature filter is toggled on.

14. Verify the correct Cross Section Set selected in the dialog.



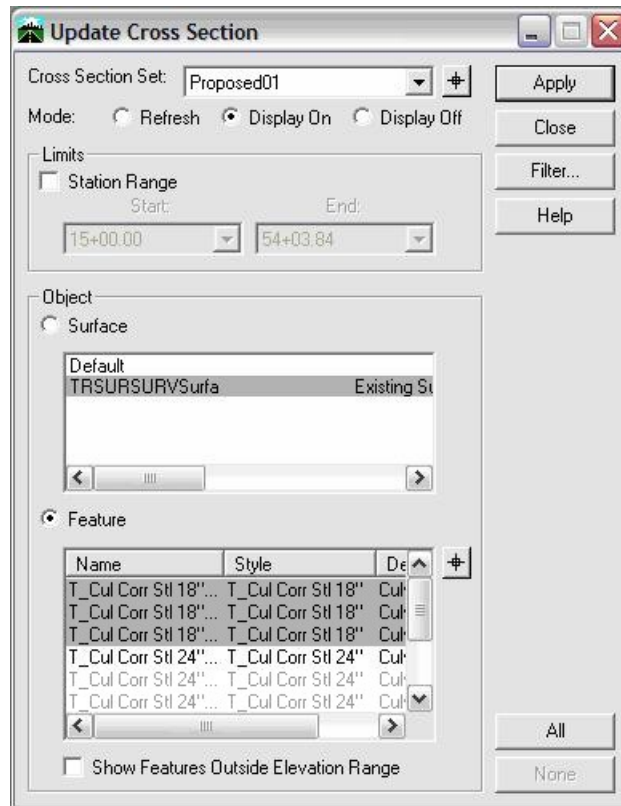
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15. Select the **Display On** radio button then the **Feature** radio button.



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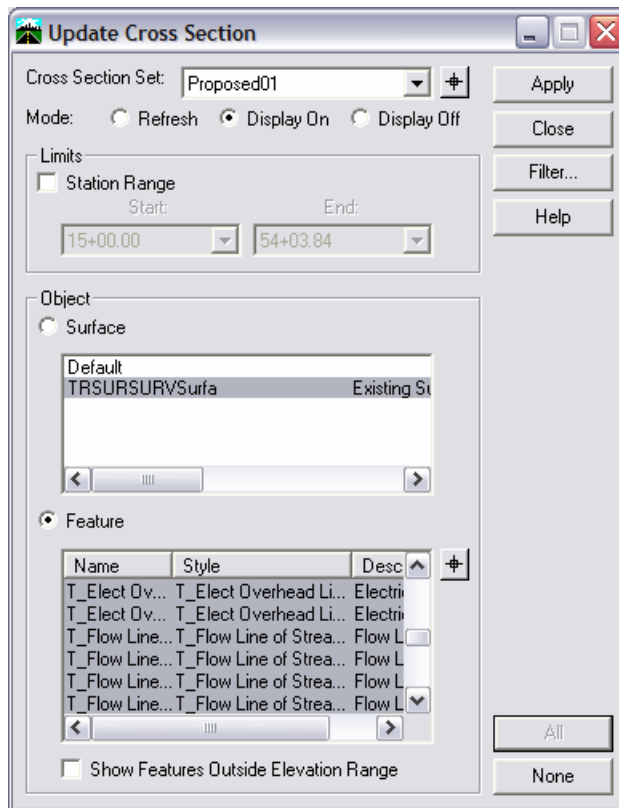
16. Under the Surface section Select the surface name or names to display. The Feature list will populate with the list of features. Use the Ctrl key to select multiple names.



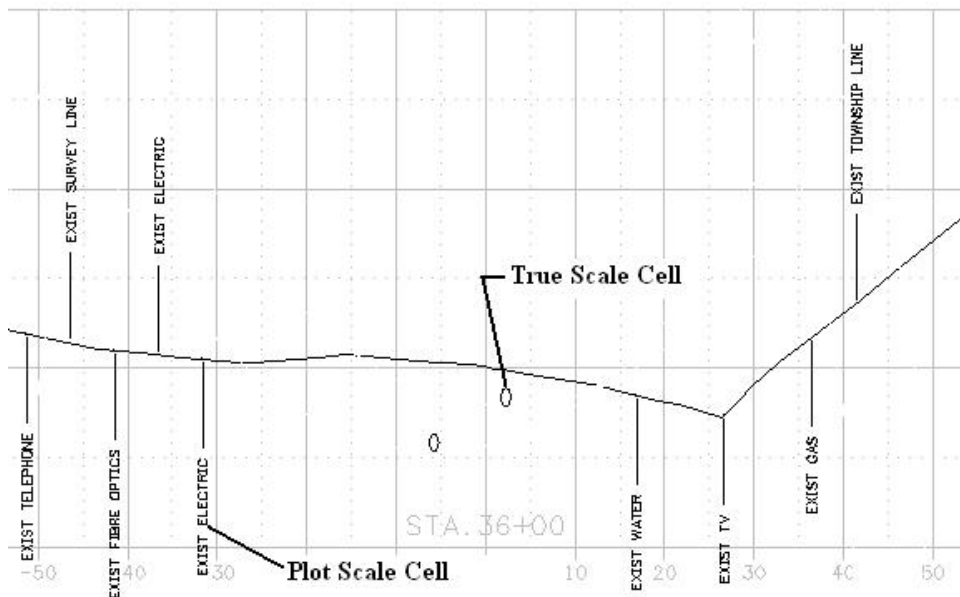
Note: The names in bold are Feature Styles that can be displayed in cross sections. Any names that are dithered are not configured to be displayed in a profile view.

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17. Select the **All** icon. The Features that can be displayed in cross section will be highlighted.

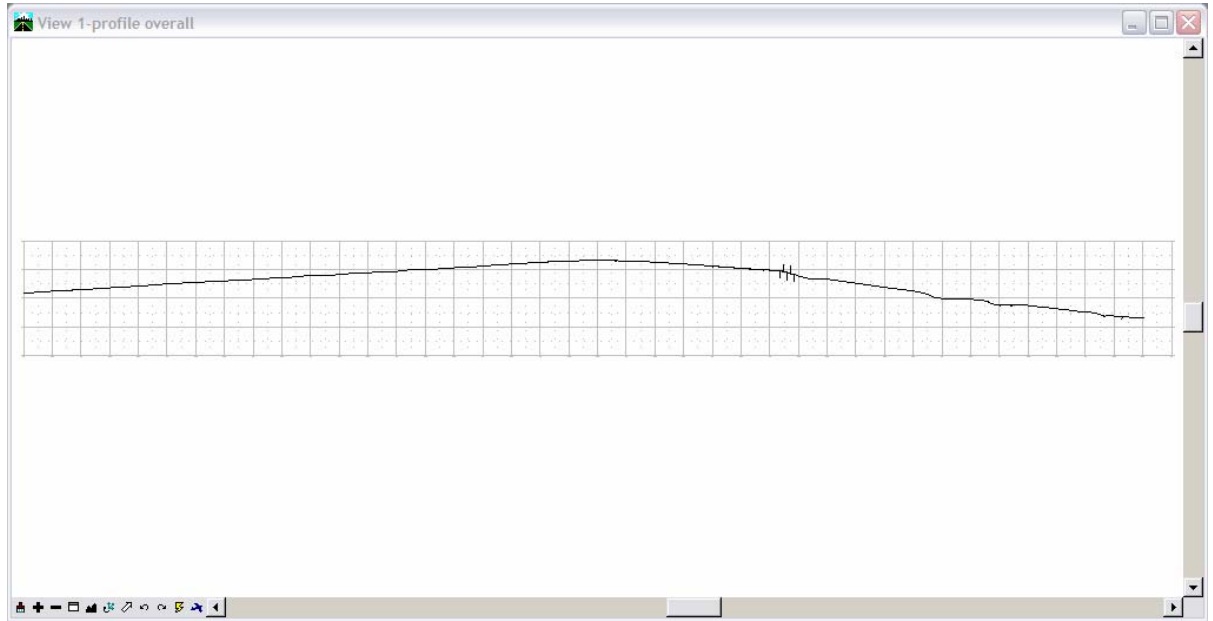


18. Select the **Apply** icon. The dialog will minimize as the features are generated in the cross sections, when it has completed the dialog will reappear.



Profile

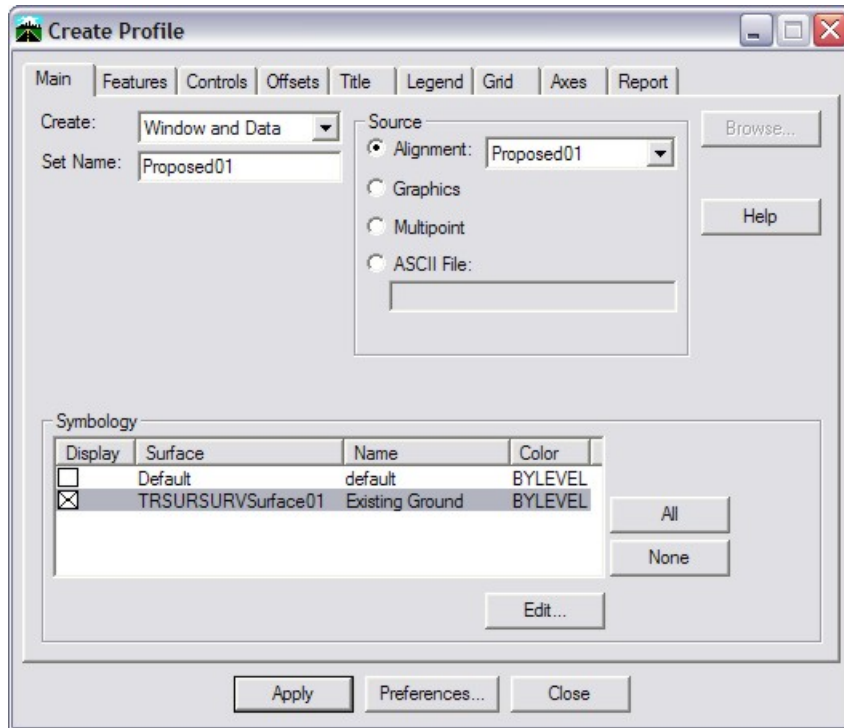
Displaying Features in Profile



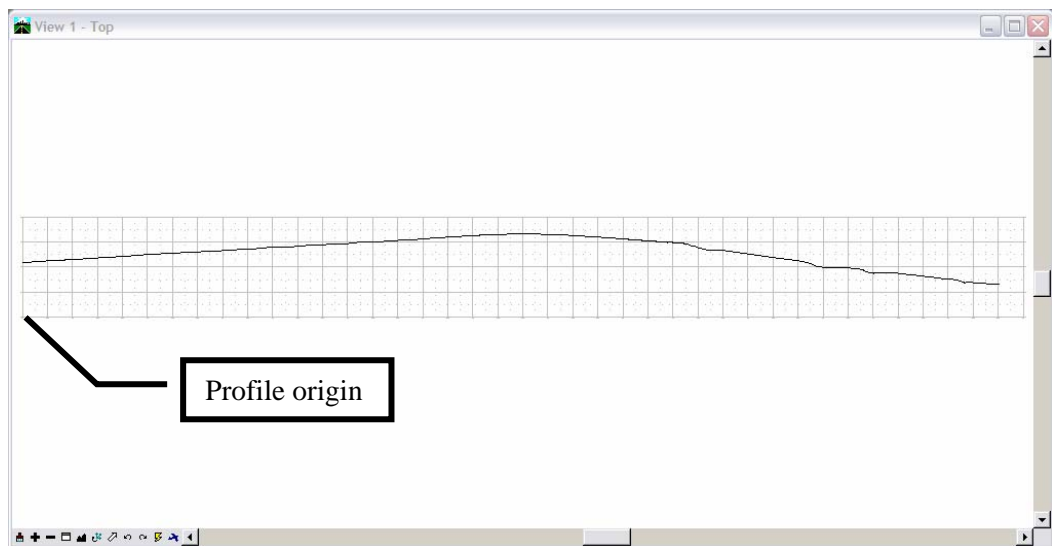
Note: Example Profile

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19. From the InRoads pulldown menu, **Evaluation > Profile > Create Profile** the Create Profile dialog will appear. Select the appropriate Preference, for this example it will be CDOT.



20. In the **Create Profile** dialog, verify on the Features tab that **Crossing Features** is checked off.
21. Select the **Apply** icon the dialog will minimize allowing the selection of the origin for the profile set with a <D> in a MicroStation View. After the profile is created **Select** the **Close** icon.

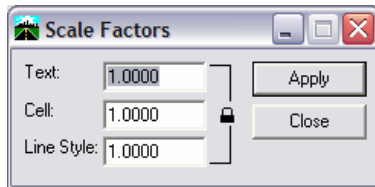


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22. From the InRoads pull down menu Select **Evaluation > Profile > Update Profile** The Update Profile dialog will appear.

The first set of features to display will be the features that are defined to be true scale meaning the features have a defined size such as pipes. In order to display these types of features setting the scale factor and feature filter is required prior to displaying.

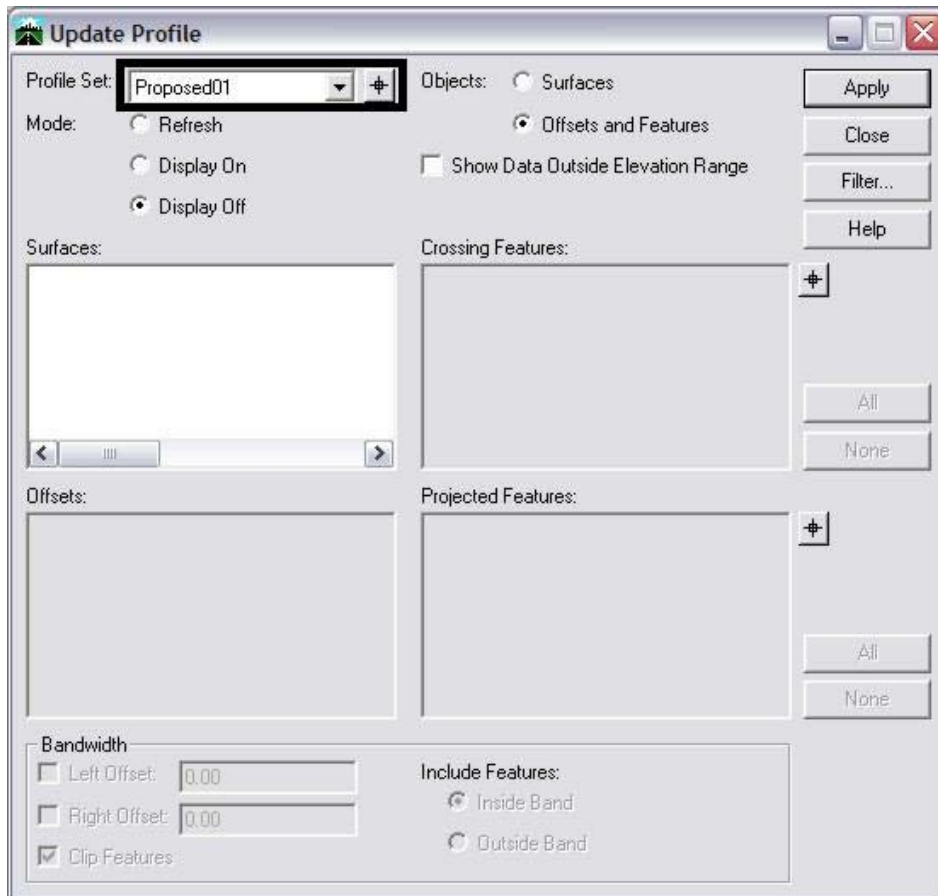
23. Change the InRoads **Scale Factor** to 1.



24. From the **Locks** toolbar Select **CELL_True-Scale** filter from the pull down list and toggle on the feature filter lock icon.

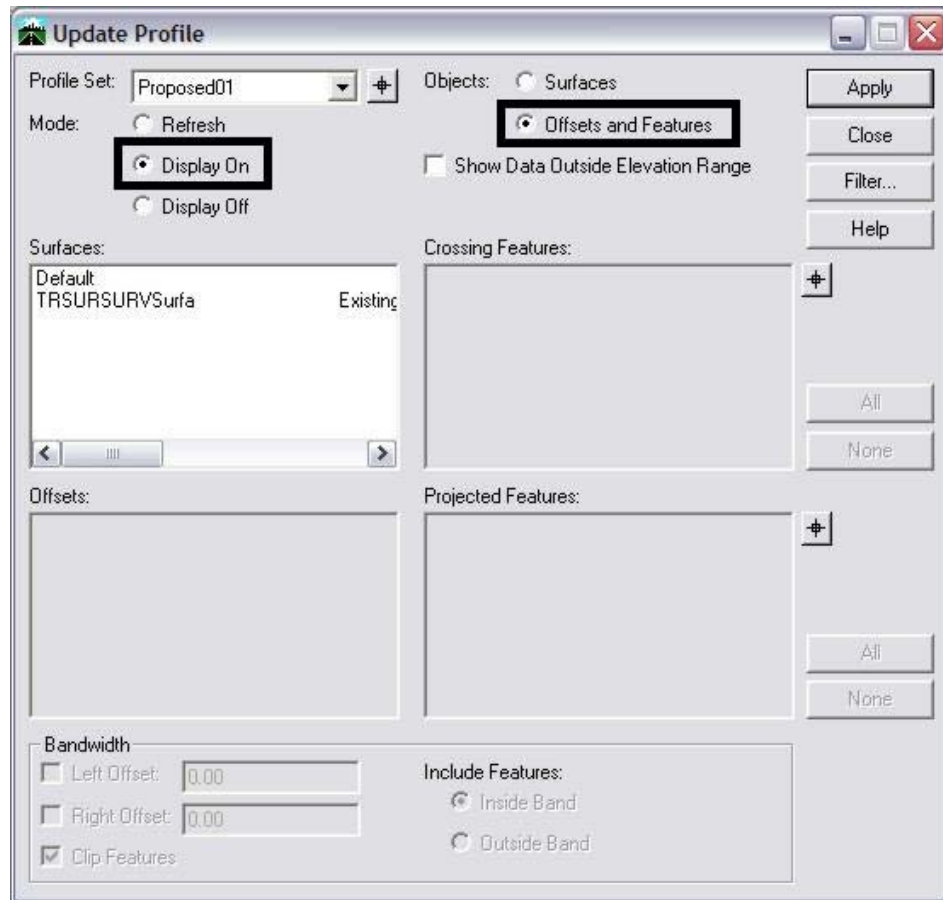


25. Verify the correct Profile Set is selected in the dialog.



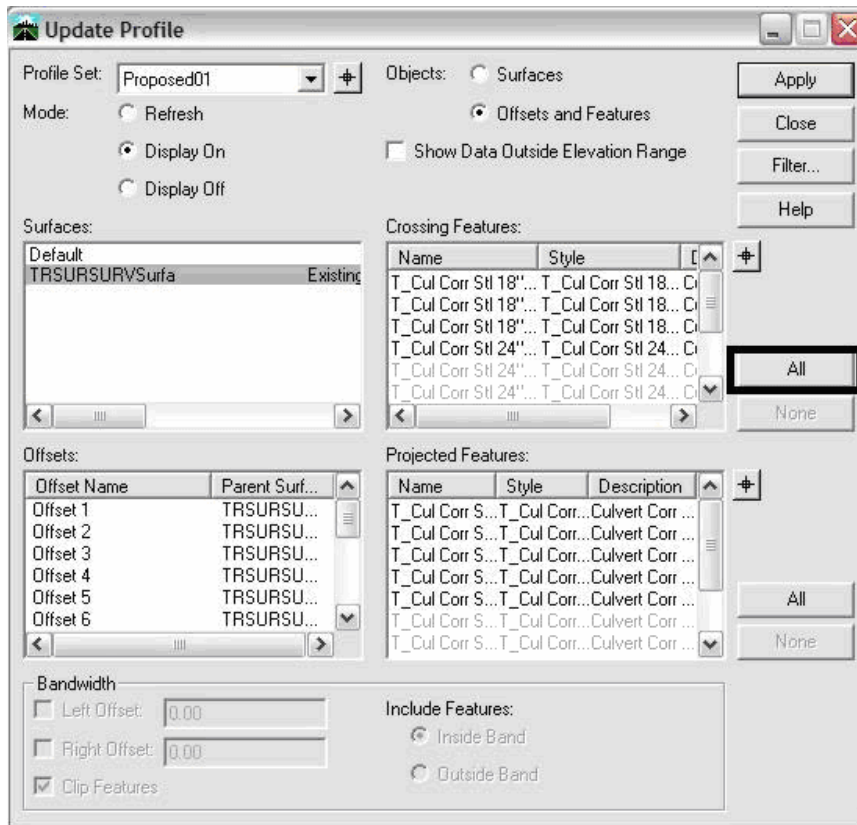
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26. Select the **Display On** radio button then the **Offsets and Features** radio button.



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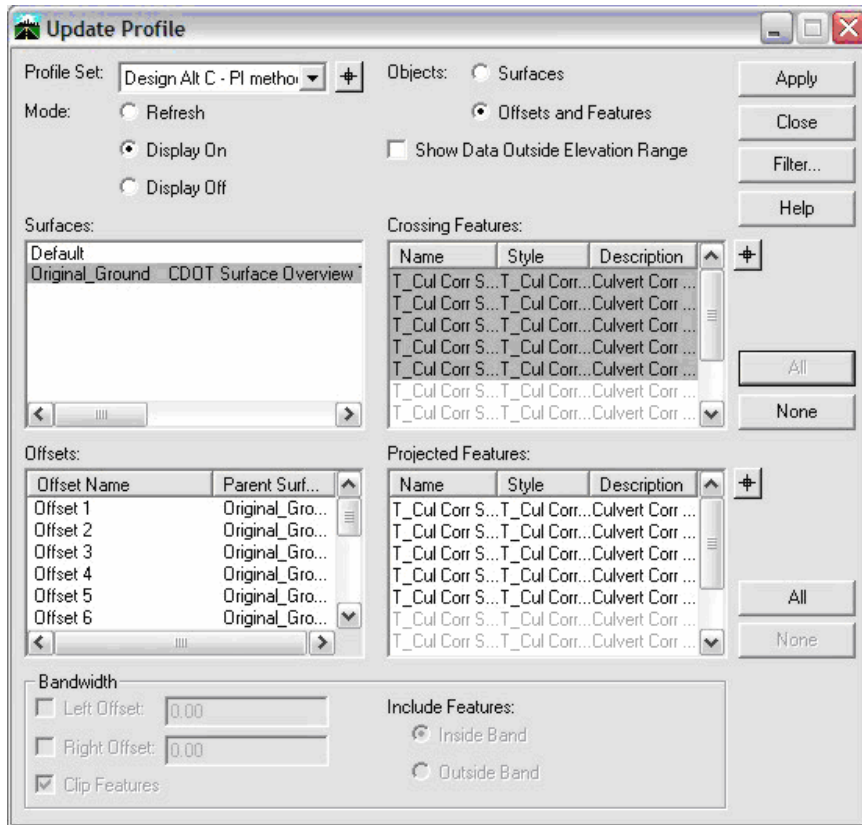
27. Under the Surfaces section Select the surface name or names to display. The Feature list will populate with the list of features. Use the Ctrl key to select multiple Surface names.



Note: The names that are black are Feature Styles that can be displayed in profile. Any names that are dithered are not configured to be displayed in a profile view.

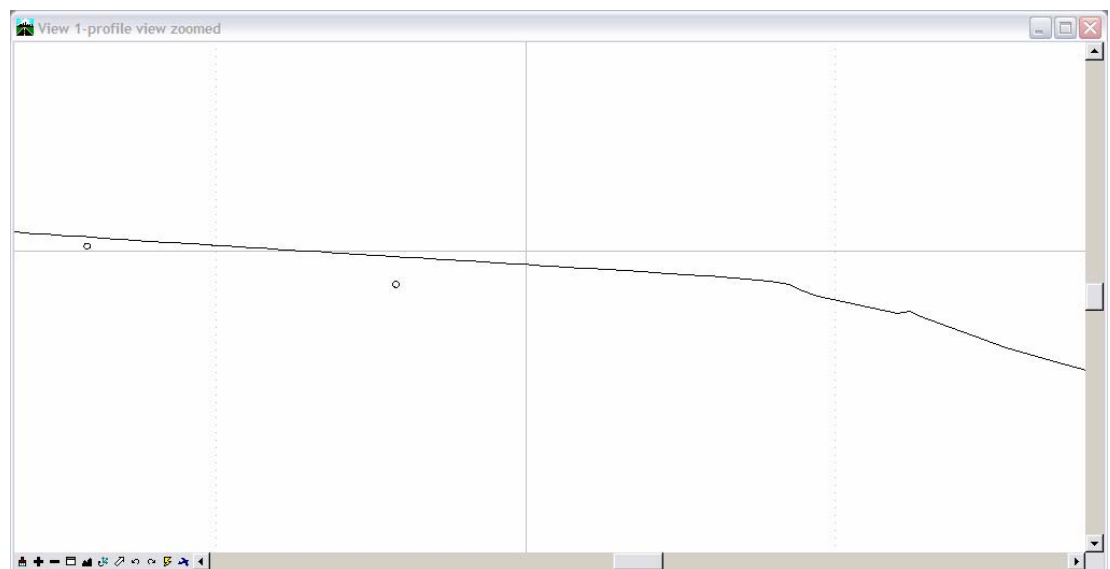
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28. Select the **All** icon. The Features that can be displayed in profile will be selected.



Note: Projected Features are not being displayed so nothing in that box will be highlighted.

29. Select the **Apply** icon. The dialog will minimize as the features are generated in the profile, when the process has completed the dialog will reappear.

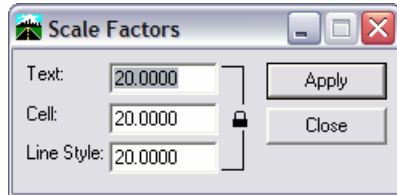


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Displaying Plot Scale Cells

The second set of features to be displayed are those that have location only defined with annotation. In order to display these types of features, set the scale factor and the desired feature filter prior to displaying.

30. Change the InRoads Scale Factor to 20.

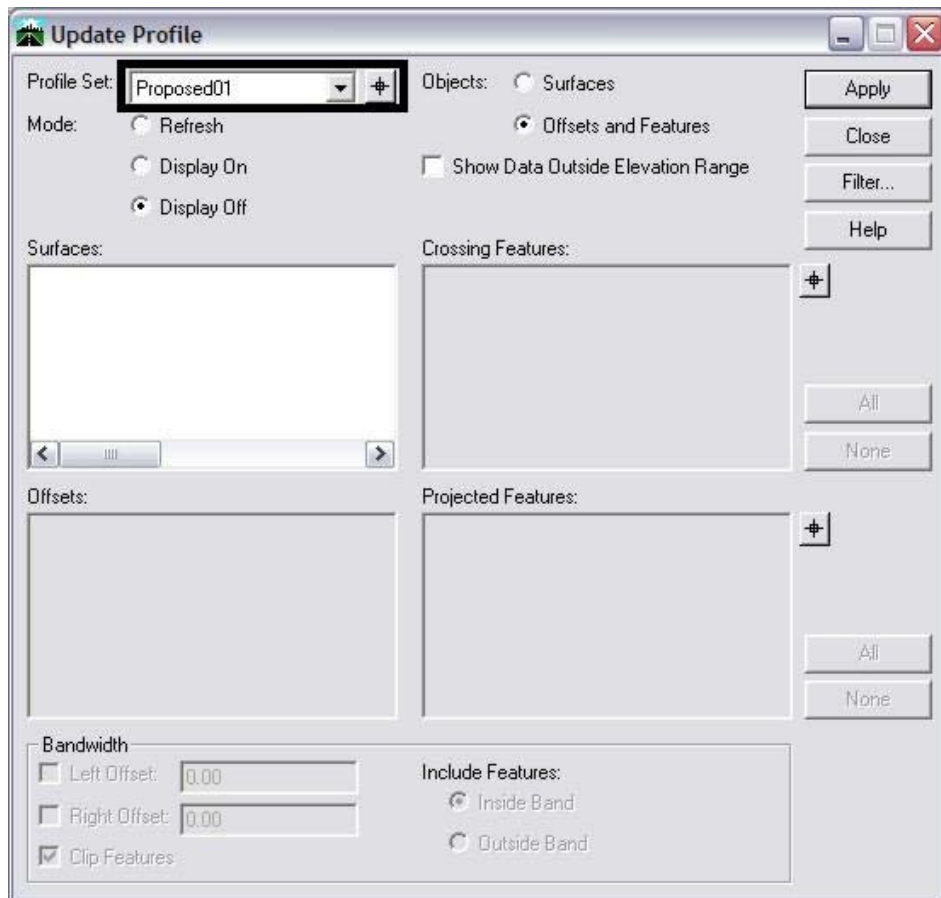


Note: This is the desired plot scale change accordingly.

31. From the **Locks** toolbar Select *CELL_Plot-Scale* filter from the pull down list and toggle on the feature filter lock icon.

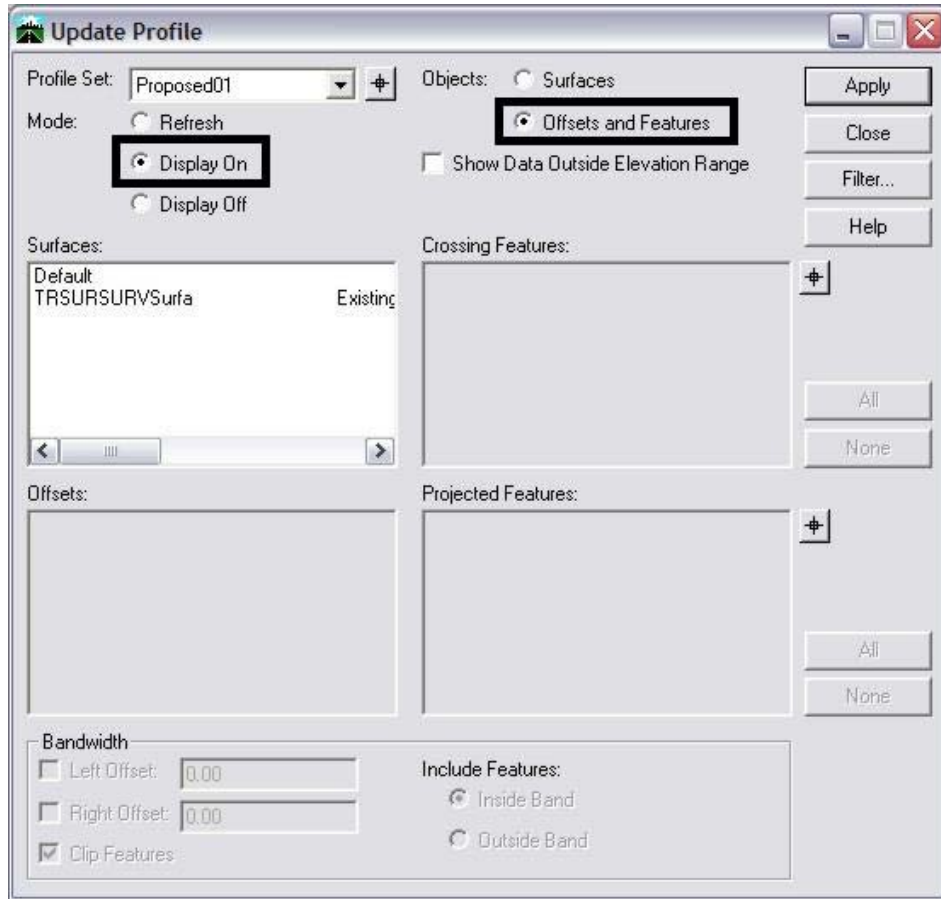


32. Verify the correct Profile Set is selected in the dialog.



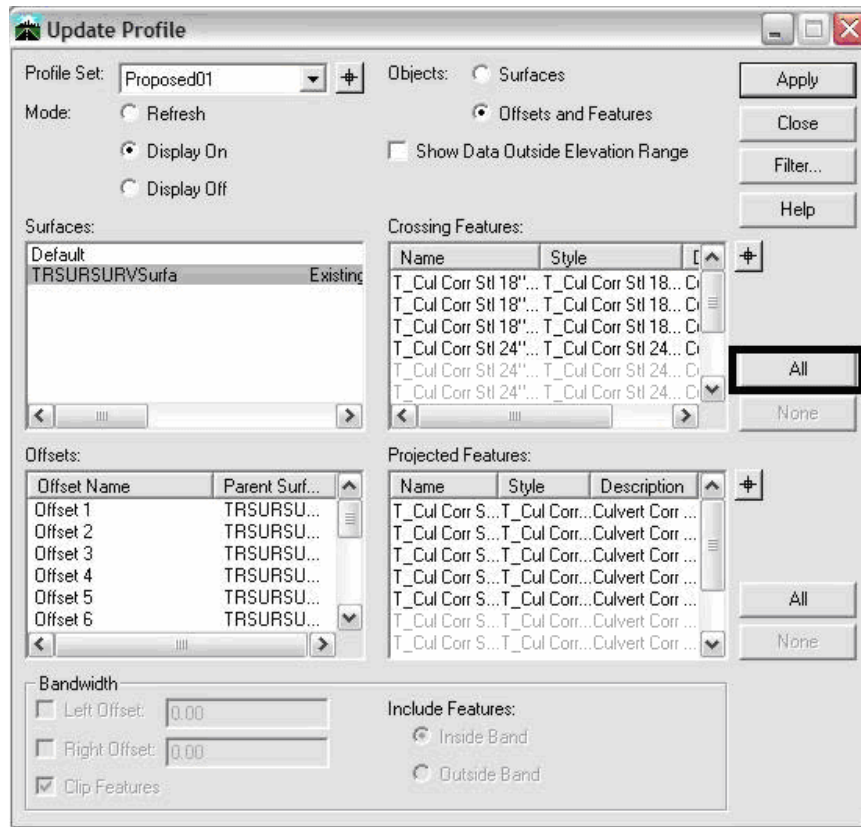
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33. Select the **Display On** radio button then the **Offsets and Features** radio button.



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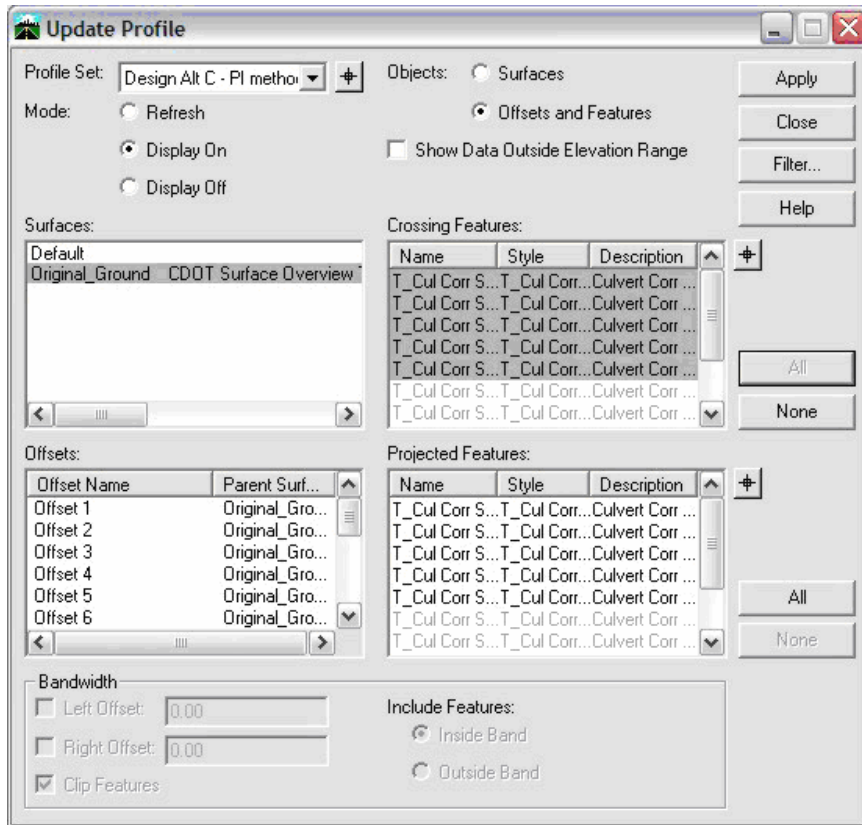
34. Under the Surfaces section Select the surface name or names to display. The Feature list will populate with the list of features. Use the Ctrl key to select multiple names.



Note: The names that are black are Feature Styles that can be displayed in profile. Any names that are dithered are not configured to be displayed in a profile view.

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35. Select the **All** icon. The Features that can be displayed in profile will be selected.



36. Select the **Apply** icon. The dialog will minimize as the features are generated in the profile, when the process has completed the dialog will reappear.

