

2_37 ADDING & REMOVING PAVEMENT LAYERS

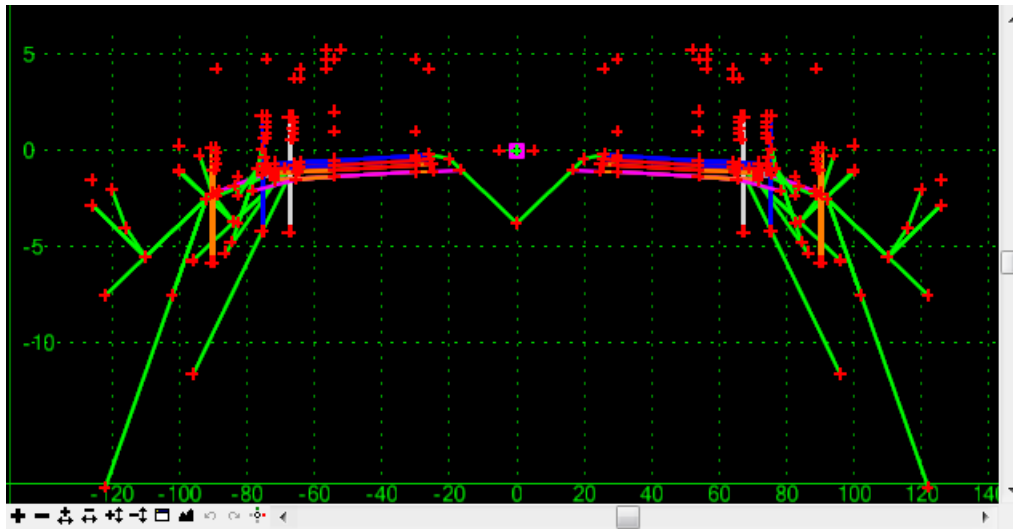
Question:

If you have a template with 3 pavement layers (L and L Wisland), can you add a 4th layer? This is a custom template created for use with this project.

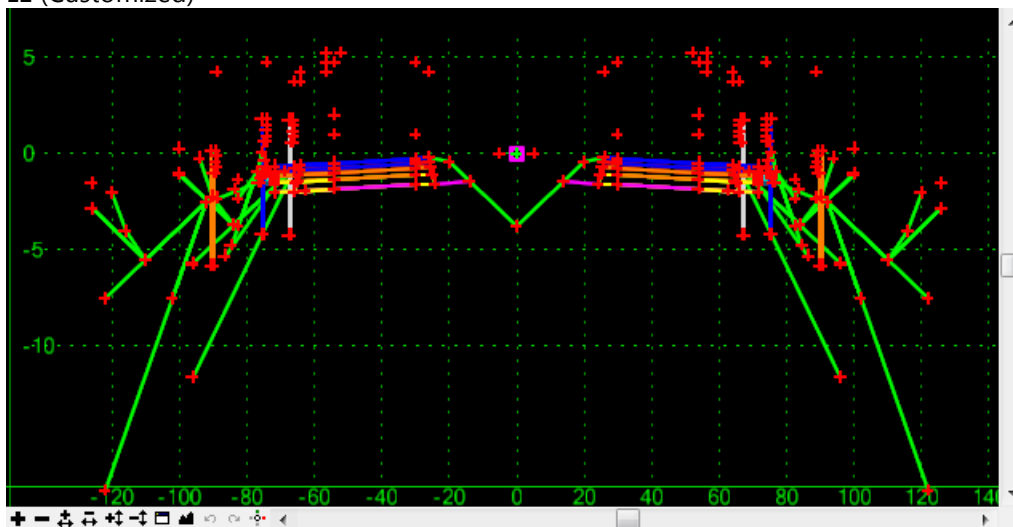
Answer:

If too much has already been invested into the template, such as this particular case with Transitioning Grade Point (TGP) Templates with Outside Turning Lanes (OTL), it's not easily feasible to replace it with the standard 4-layer template. The only viable option is to customize it. Here are the modifications:

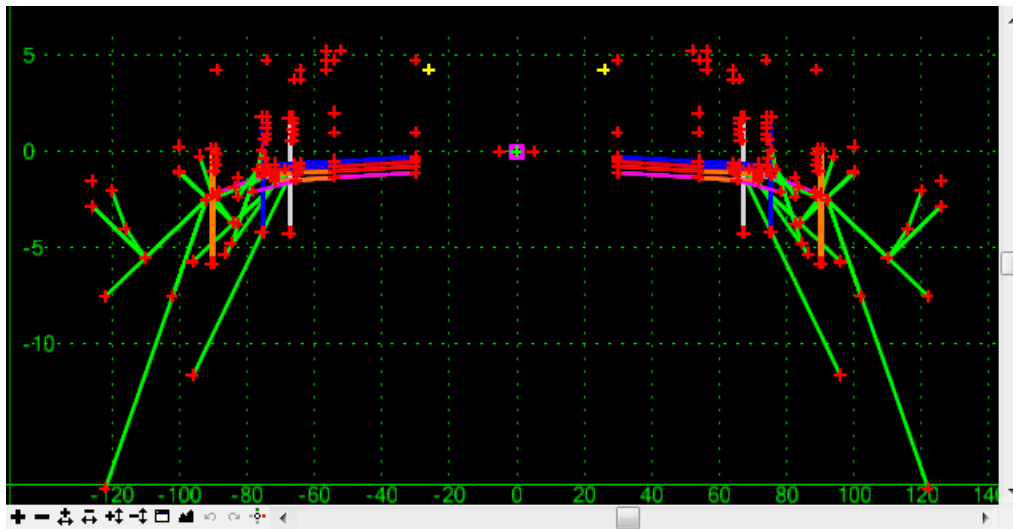
L



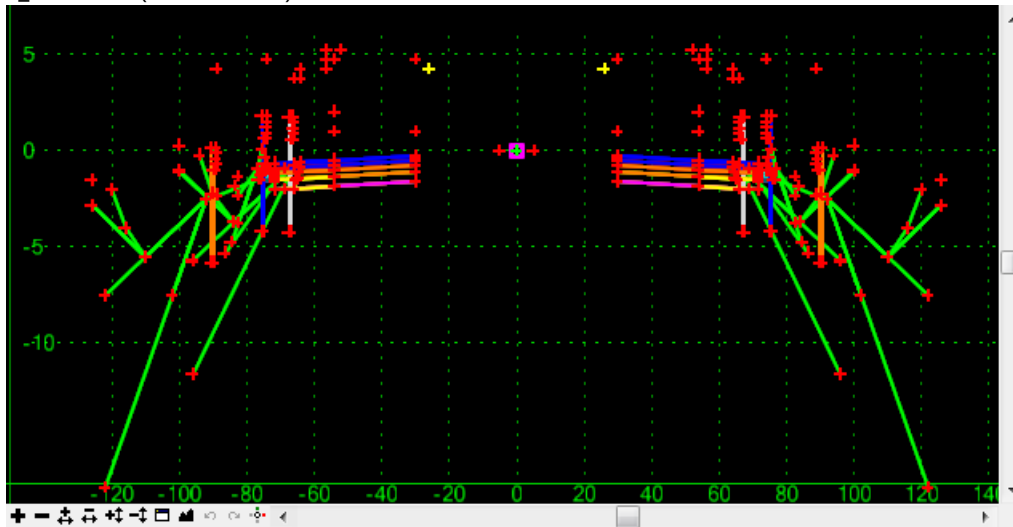
L1 (Customized)



L_wisland



L_wisland1 (Customized)



Note, technically the pavement layers can be subtracted out by setting the middle layer to zero as the pavement depth (parametric constraints – Part I of delta training). However it is not recommended because of these two reasons:

1. Constrained points in collective become indeterminate once they are placed on top of each other.
2. If a pavement depth is set to 0.01', then issues with the automatic pavement calculation spreadsheet can occur (Part IV/2nd Advanced OpenRoads Technology Series portion of delta training).

The dynamics of your design, such as HAL/VAL, side slopes, pavement design, etc., are destined to change moving from one design phase to another. A streamlined procedure to add or subtract pavement layers is in *Part III-Template Customization chapter of delta training*.