

2_36 FLOATING GUARDRAIL ON C&G BERM

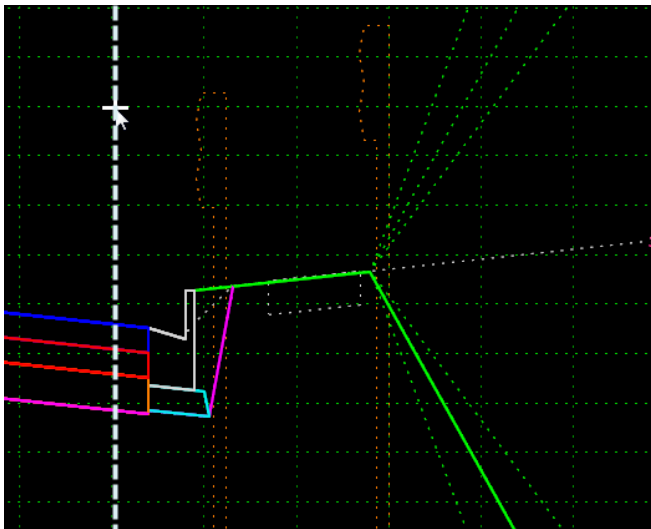
Question:

Why does the guardrail not draw on the berm sometimes when using a C&G template?

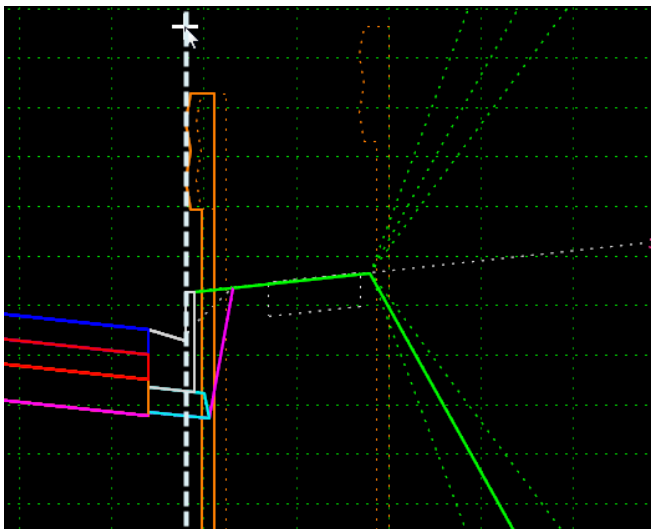
Answer:

Per standard, guardrail is installed at the face of curb or has an offset of 12' behind the face of curb. For various reasons, such as guardrail tapers around the inside berm of loops, I've been asked for the ability to "float" the guardrail horizontally anywhere on the berm. This is how the template was designed to work.

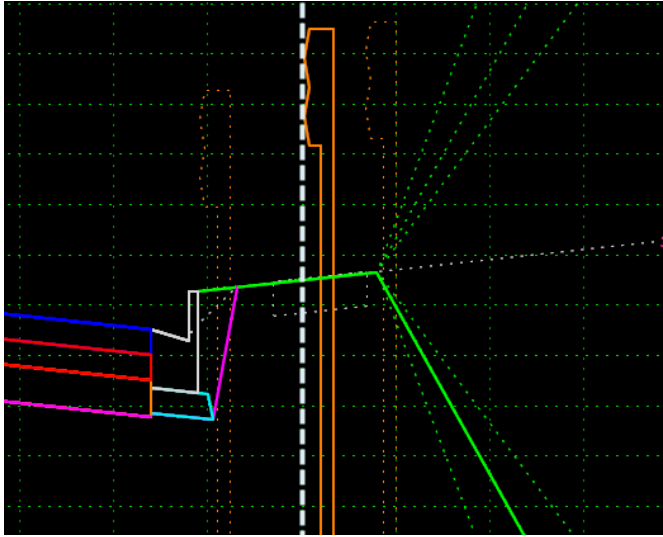
Guardrail Graphics Horizontally Located Inside C&G – Guardrail Component Not Drawn



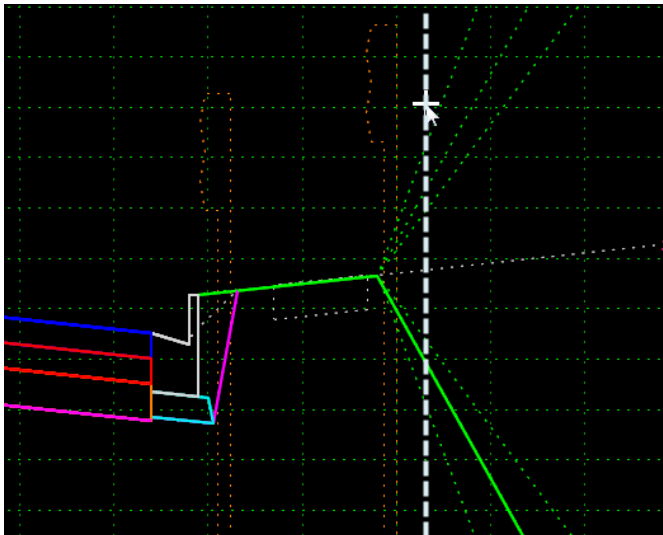
Guardrail Graphics Horizontally Located Near C&G Face – Guardrail Component Drawn



Guardrail Graphics Horizontally Located Anywhere on Berm – Guardrail Component Drawn

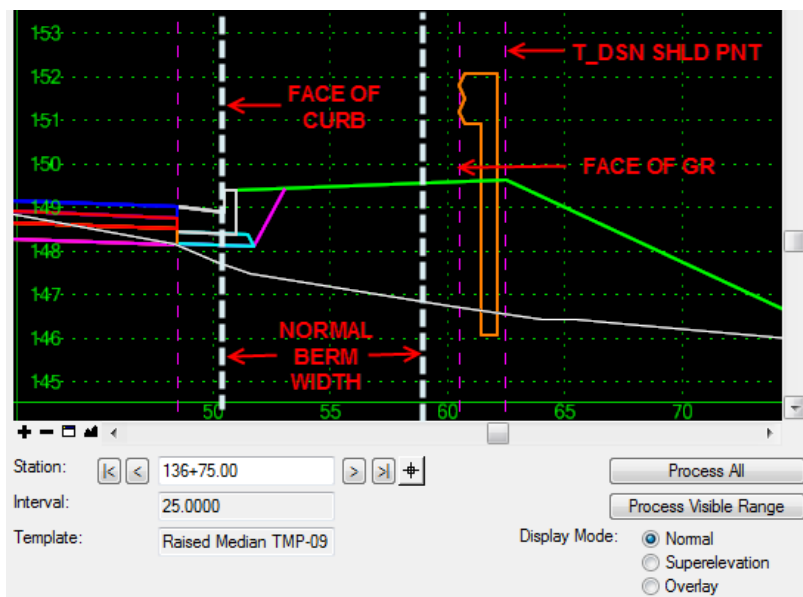
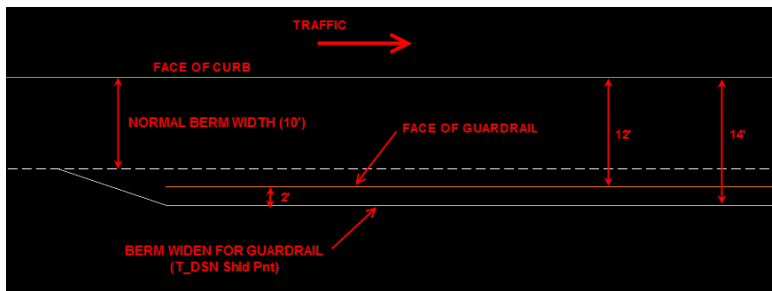
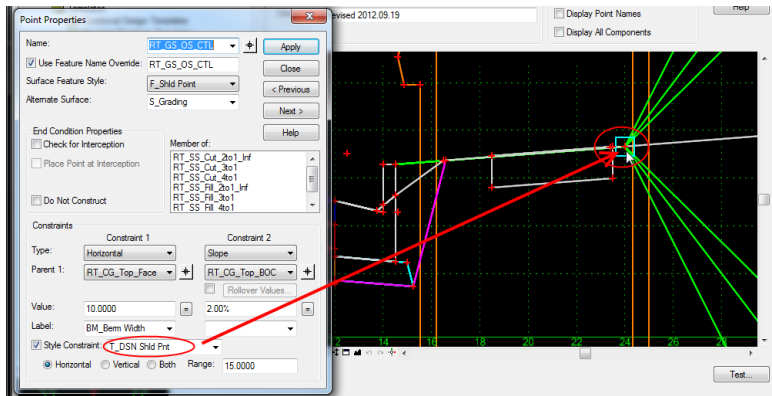


Guardrail Graphics Horizontally Located Outside Berm/Catch Slope Break Point – Guardrail Component Not Drawn



C&G Templates has a default 10' berm width. If the guardrail graphics is drawn 12' from the face of curb (such as in this case), then it is not drawn due to its horizontal location outside the berm.

To fix this issue, the berm width must be increased to accommodate the guardrail installation. Parametric constraints can be used but not recommended due to having to modify the left and right labels independently and the numerous entries of station ranges in the dialog box. In the diagram below, widen the berm for guardrail by storing the catch slope break point 2' from the face of guardrail. Use the drafting standard "T_DSN Shld Pnt".



The same procedure can be used for shoulder templates with guardrail installation near bridge approaches. Instead of the shoulder breakpoint always being 3' from the face of the guardrail, use a graphical element to define the normal usable shoulder width.