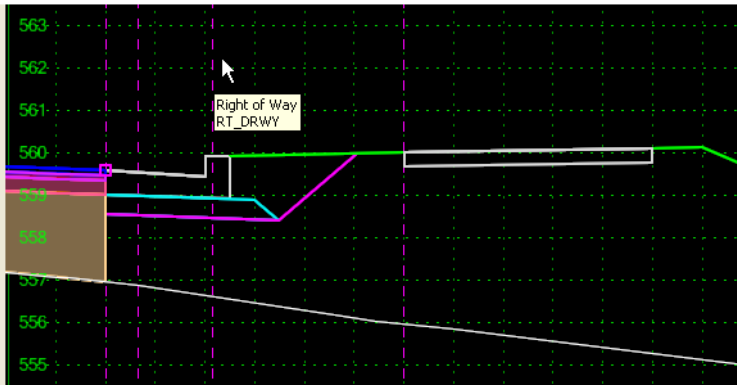


2_23 CONCRETE DRIVEWAY CONSTRUCTABILITY FLAG

Question:

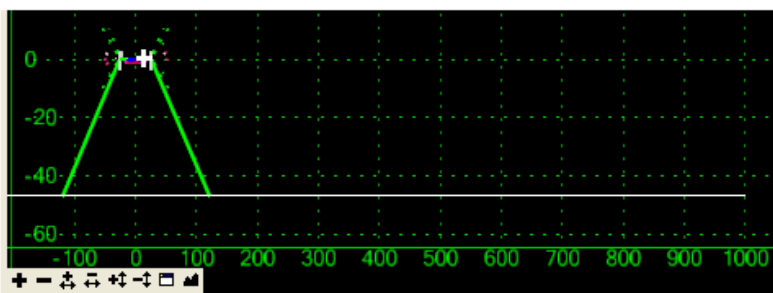
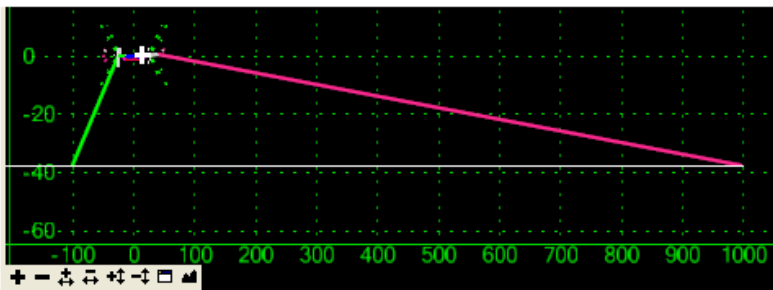
I have my concrete driveway graphics drawn and imported correctly. It is located horizontally within the 6" area of where the curb would have been. Why doesn't't the driveway components display in Roadway Designer?



Answer:

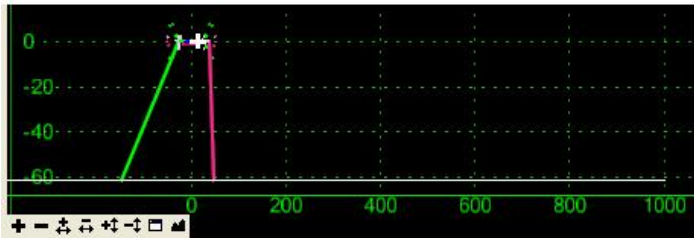
Driveway slopes loosely comply to the Standard Drawings for Radius and Drop Type Driveway Turnouts (848.02 and 848.03). Depending on the proposed road profile, fill/excavation height, and super, the driveway end conditions may not be able to tie to natural ground within the maximum allowable slopes (currently red flagged from +16% to -4%).

Testing of the templates revealed the threshold for driveway end conditions to reach failure is approximately 38' of fill height and 1000' horizontally from centerline.



In actuality, the natural ground of the real world existing DTM is seldomly flat and not enough coverage for the DTM has been surveyed, extending beyond the project limits. Thus, the default curb and gutter components (instead of driveways) are displayed when the end conditions for the driveway failed to solve.

I have updated the Roadway Standard Template Library to always solve for the driveway end condition when the targeted driveway graphics are present, even after the threshold has been breached.



It is important to note the reason why these driveway flags exist. When the red flags are raised, attention to the constructability of a standard driveway should be address. Please refer to the Policy on Street & Driveway Access manual for designing dedicated driveways with their own horizontal and vertical alignments. A driveway template(s) may be developed in the future when there is a need for it.