

Figure 37: Schematic diagram showing the behavior of the ASCCurbDrivewaySurfaceLink1 subassembly.

Design Steps

In this example we are adding a new baseline to an existing corridor that has an edge of travel way defined.

1. **Create the Custom Subassembly in Subassembly Composer**
Define the custom subassembly parameters and import the subassembly into your subassembly Tool palette.
2. **Define the Baseline Alignment**
The edge of existing travel way (ETW) alignment used to define the lane widening described earlier will serve as the baseline alignment. The geometry of this alignment can be reconstructed from highway design plans, or from a right-of-way survey.
3. **Define the ETW Profile**
Create the surface profile from the corridor surface at the edge of travel way so the attachment point of the new curb assembly will match vertically.
4. **Define the Driveway Offset Targets**
These targets can be provided as alignments, polylines, or feature lines.

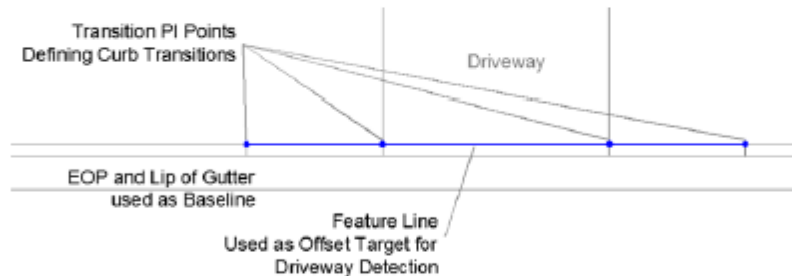


Figure 38: Schematic diagram showing Offset Target feature line.

5. **Build the Assembly**
Begin building the assembly by using the Create Assembly command under Assembly in the Create Design section of the Home tab. Insert the ASCCurbDrivewaySurfaceLink1 subassembly on the left side.
6. **Build the Baseline**
Add the baseline alignment using the ETW alignment, the corridor ground profile, and the assembly created in the previous step.
7. **Assign Targets and Frequencies**
Assign the multiple driveway offset target objects to the ASCCurbDrivewaySurfaceLink1 Curb Type parameter, created when developing the subassembly in the Subassembly Composer.
8. **Review the Design**
Examine the results using the Section Editor to check that the intent of the design has been met.