14_26 PGL Chain vs. Tie Offset

Question:

I have created pgl chains for the proposed tie and have assigned them to the left and right sides of the shape clusters. What can cause an error message stating that there is no criteria for the shape clusters when processing Criteria?

Answer:

If a PGL Chain has been used to create the Geopak shapes, then an error can occur when defining that shape cluster with a Tie offset statement in the Criteria input file.

```
CRITERIA FOR SHAPE CLUSTER
SHAPE CLUSTER BASELINE = L
SHAPE CLUSTER PROFILE = EX_L
SHAPE CLUSTER TIE = 0
```

Instead, define the shape cluster grade point (GP) offset location with the relative PGL Chain name stored in the GPK.

```
CRITERIA FOR SHAPE CLUSTER
SHAPE CLUSTER BASELINE = L
SHAPE CLUSTER PROFILE = EX_L
SHAPE CLUSTER PGL CHAIN = pg1RT
```

It is noteworthy to mention the appropriate application for PGL Chains when processing Criteria. In the scope of horizontal alignment designs, if the median width varies, then a constant grade point (GP) offset location can not be established. Since the grade point (GP) offset location can not be "tied" down to one offset distance value, a PGL Chain can be used instead. This ultimately gives Criteria the ability to apply the profile elevation or grade point at the PGL Chain.