Driveways (10-1-2013)

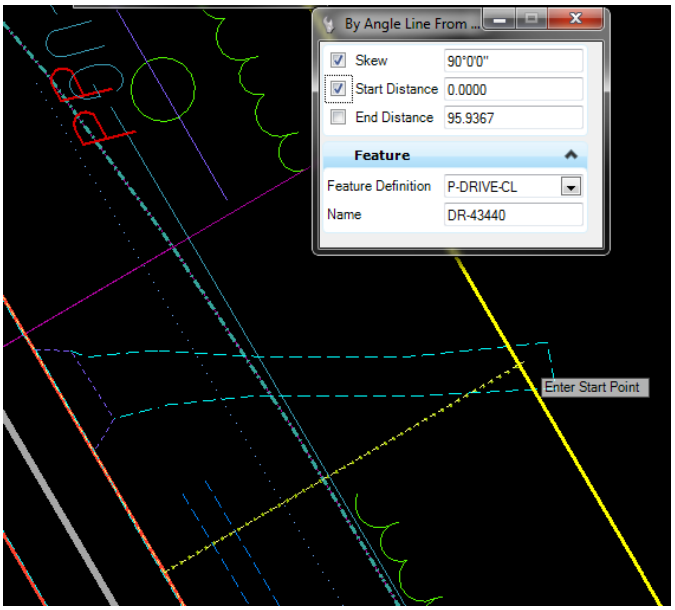
RURAL DRIVES

Prerequisites

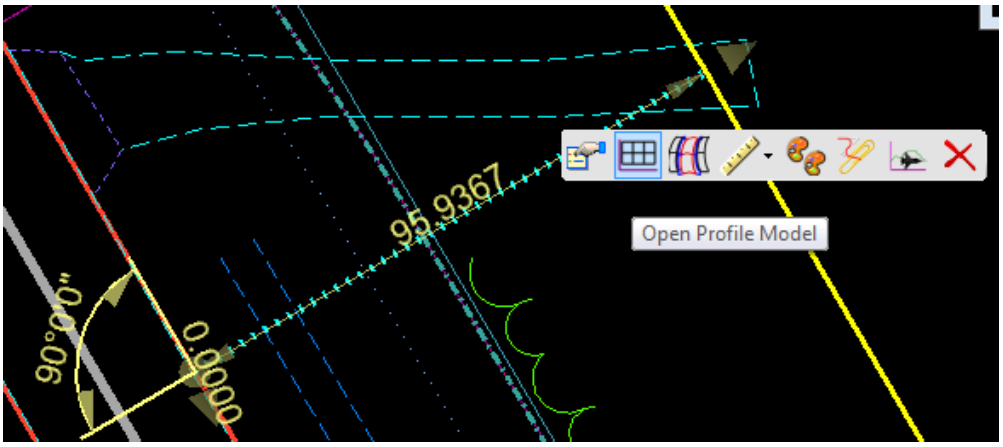
1) Corridor placed on roadway that intended driveway is being placed on.
2) Roadway EP has profile.

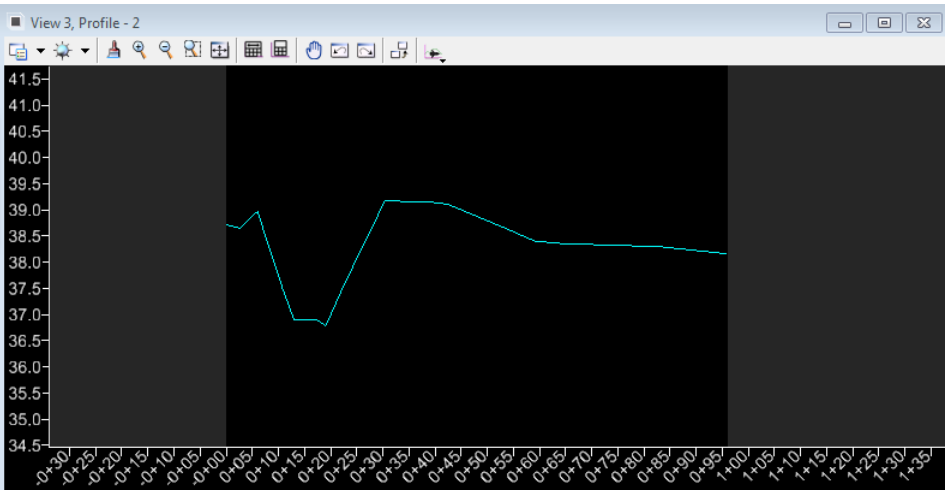
Establishing the Alignment & Profile

1) Create a Driveways.dgn file, reference your existing terrain, make active, & open the default-3d model in view 5.
2) Reference in the DGN containing your roadway corridor, both Default model to View 1 & Default-3d model to View 5.
3) Place the Horizontal Alignment.

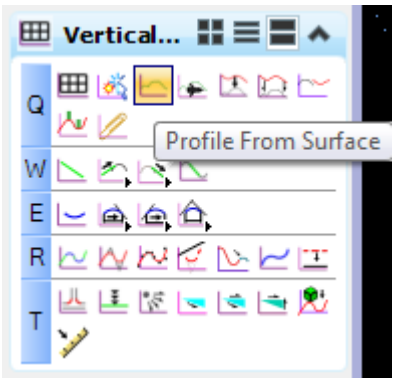


4) Open a profile view of the CL Drive alignment.



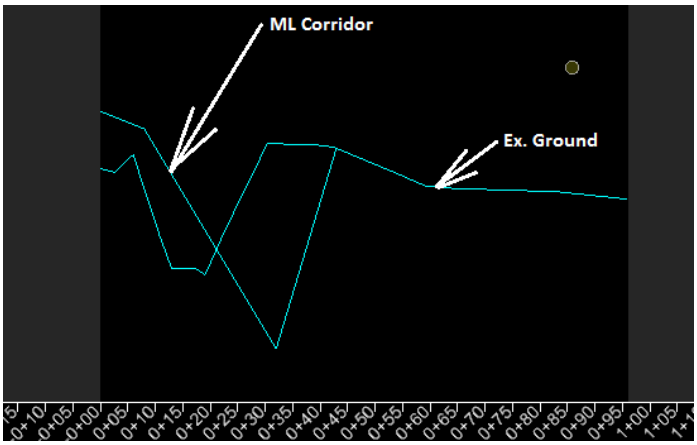


5) Choose the Vertical command “Profile from Surface”.

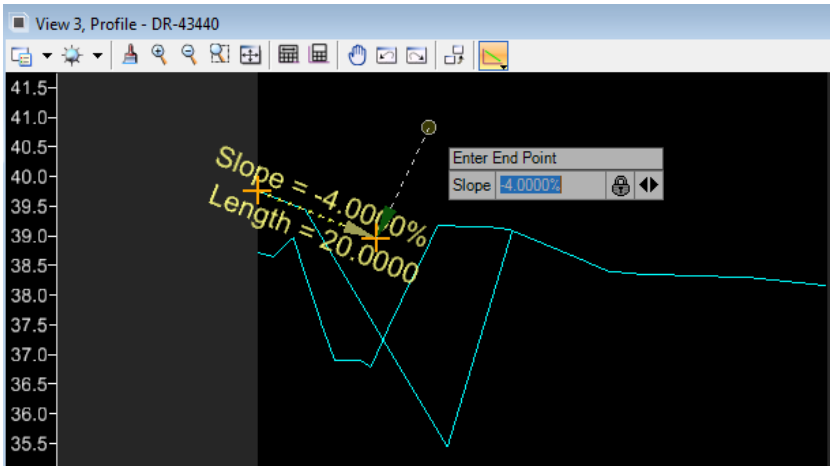


6) Choose the drive CL and then Connection roadway 3d corridor elements (shoulder & ground & possibly pavement) in the area of the driveway when prompted to choose the Reference Surface. To help locate this area in a 3d view, open a x-section view of the roadway corridor to see the blue line shown below.

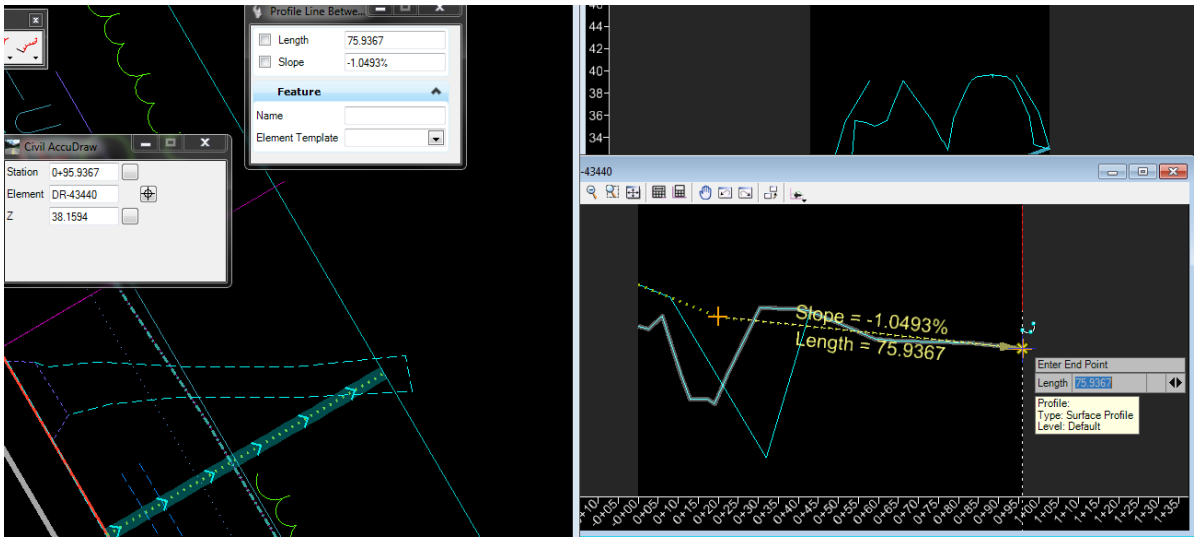
7) After the prompts, the roadway corridor should be displayed in the profile view.



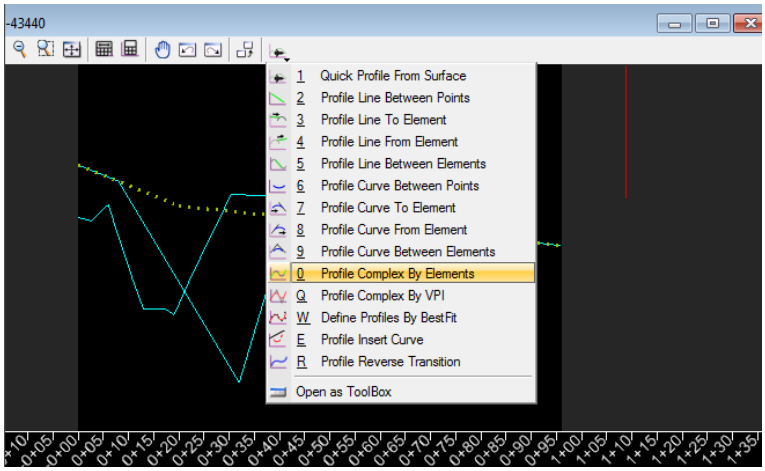
8) Draw your proposed drive profile and store as complex.
   a) Vertical command – Place Line from Element.



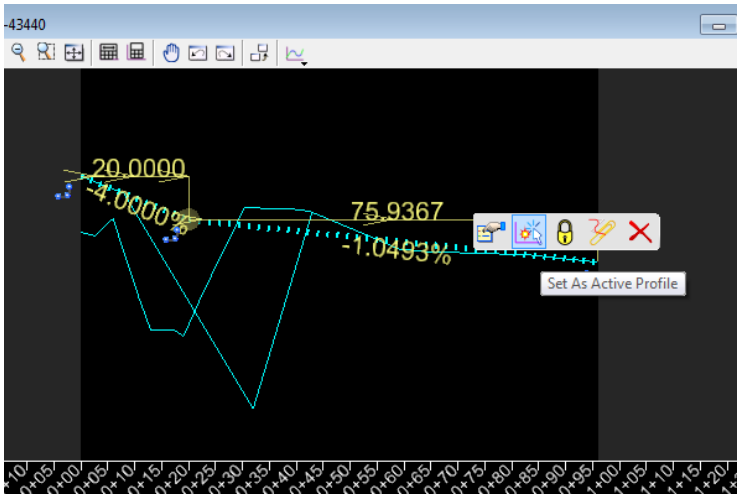
   b) Vertical command – Place Line. You may want to turn on Civil Accudraw to see the plan view location of where you're wanting to end the profile.



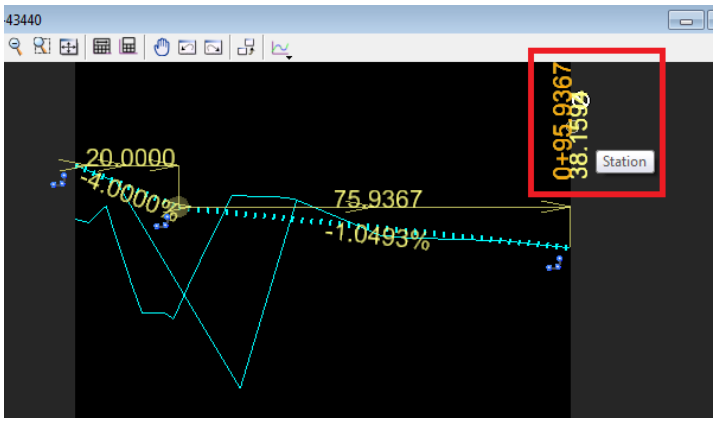
c) Vertical Command – Complex by Elements.



d) Make the profile just drawn, complex.

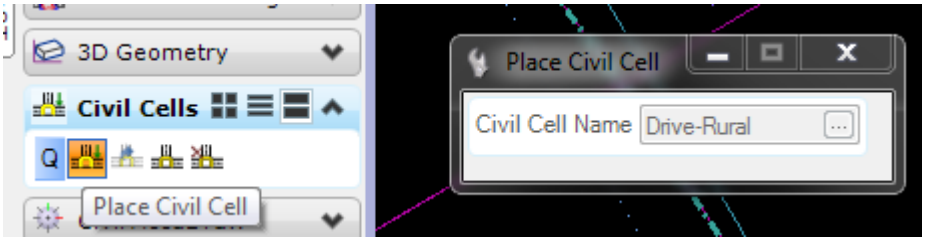


Note: If the profile is not as long as the Horizontal CL Drive drawn, find out what station the profile ends at and then change the ending station of the Horizontal CL Drive to match the profile.

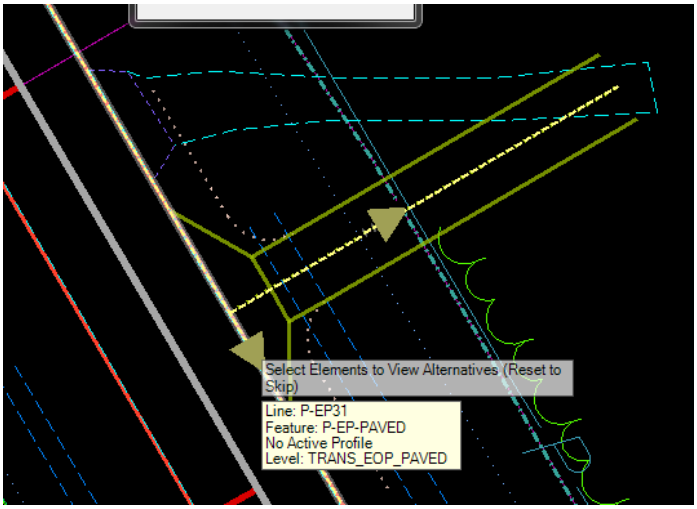


Placing the Rural Driveway cell.

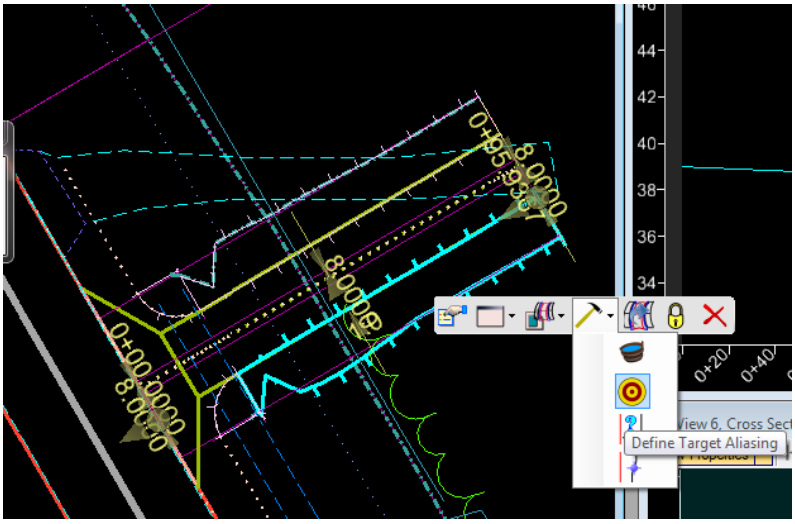
1) Choose the command & cell.

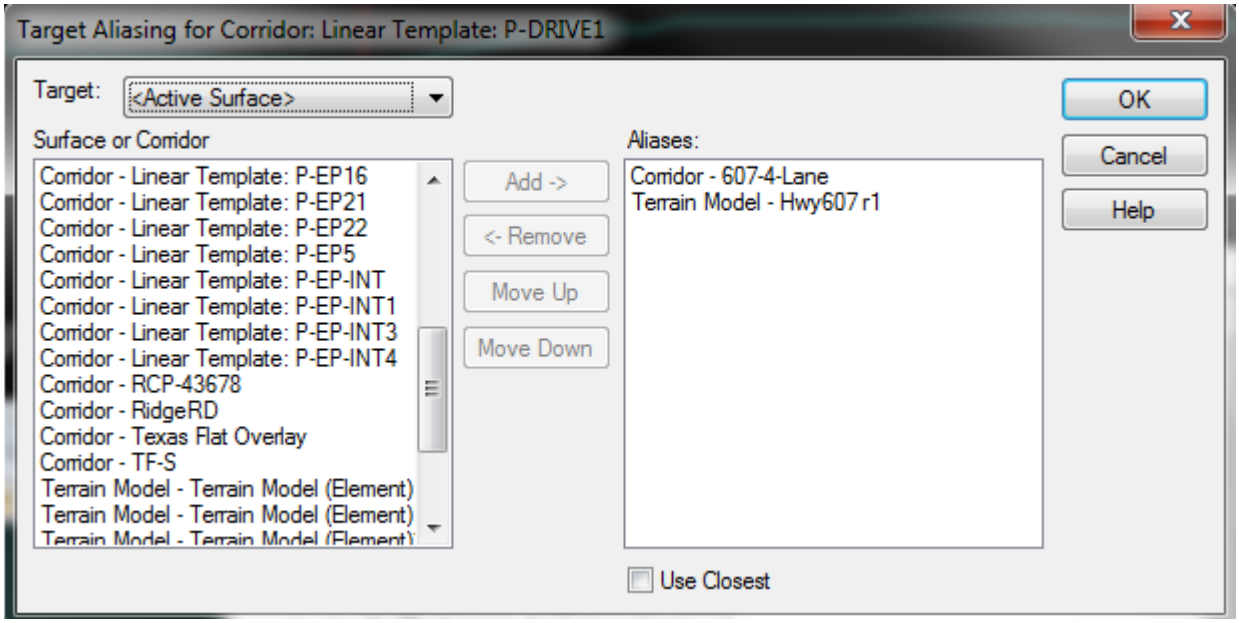


2) Follow the prompts & place the cell.



3) Add target aliasing to the drive linear templates that targets the roadway corridor & then the existing terrain.





Results: