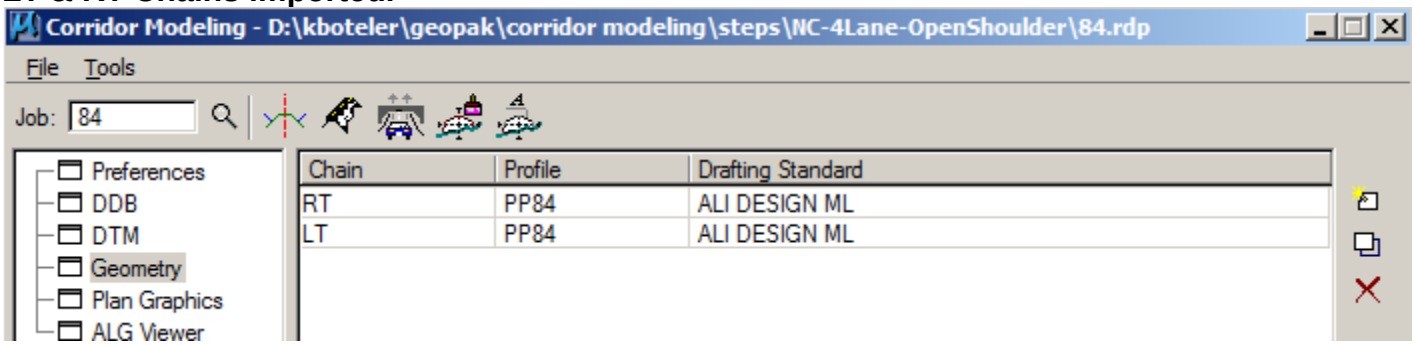
Corridor Modeling – 4-Lane (03-01-2010)

The following shows the primary dialogs for a 4-Lane Roadway. As is with a 2-lane roadway corridors for the ML, LR's, & LR turnouts will be created and a surface containing all will be generated which X-Sections will be generated from. Steps for LR's & LR Turnouts are shown in the Corriodor Modeling Help Chapter.

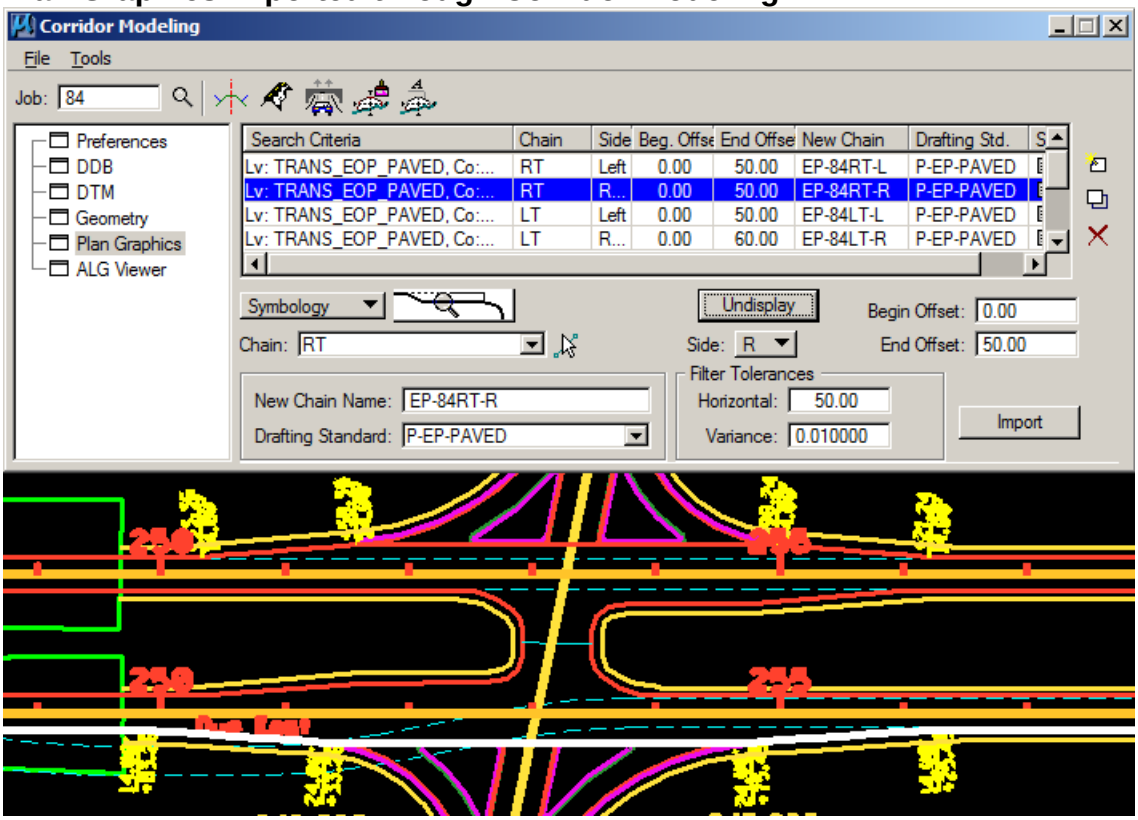
Corridor Modeler

1) **LT & RT Chains imported.**



Note: If CL to CL distance is constant throughout, you could import just one chain here.

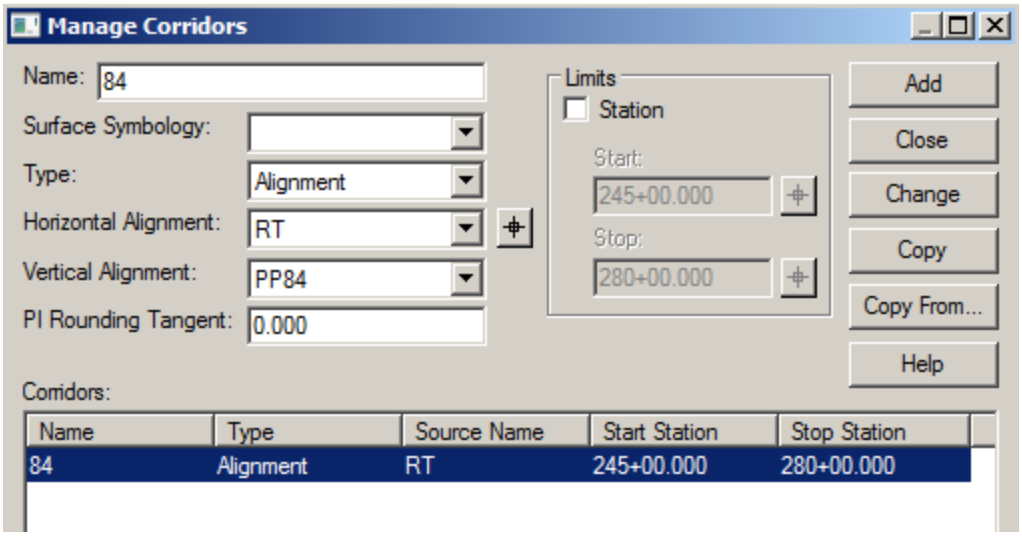
2) **Plan Graphics imported through Corridor Modeling.**



Note: a) X-Over lines & Islands imported via Selection set.
b) You'll have to adjust the End Offset for EP's & Shoulders so the correct ones are collected. See highlighted EP-84RT-L EP above.

Roadway Designer

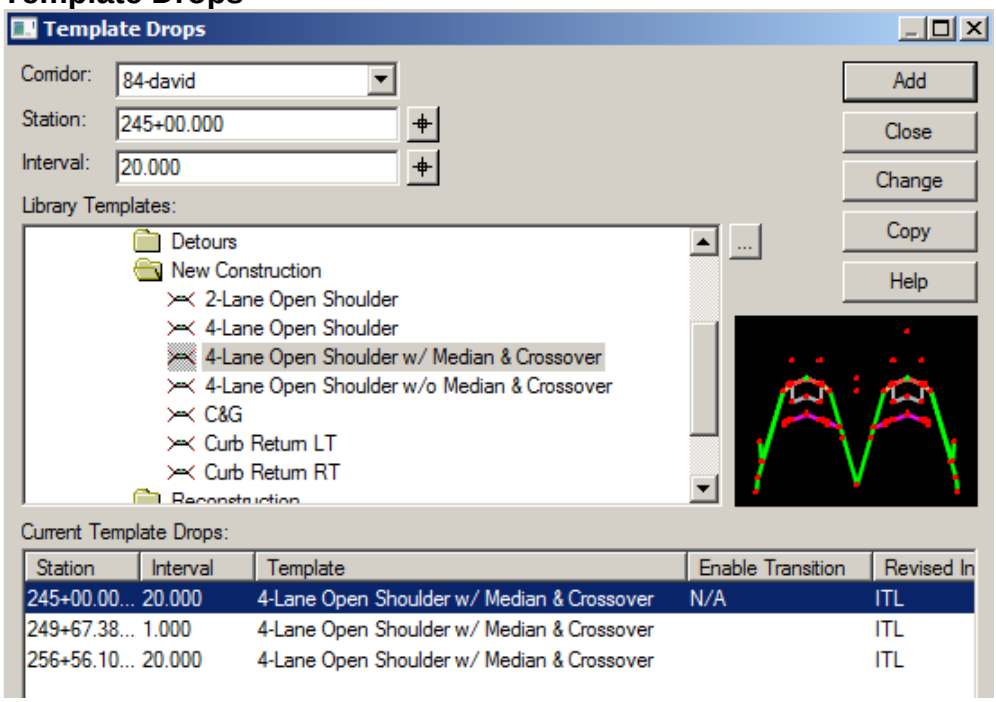
3) Create Corridor



Notes:

a) Choose the Alignment here that you will cut x-sections about.

4) Template Drops



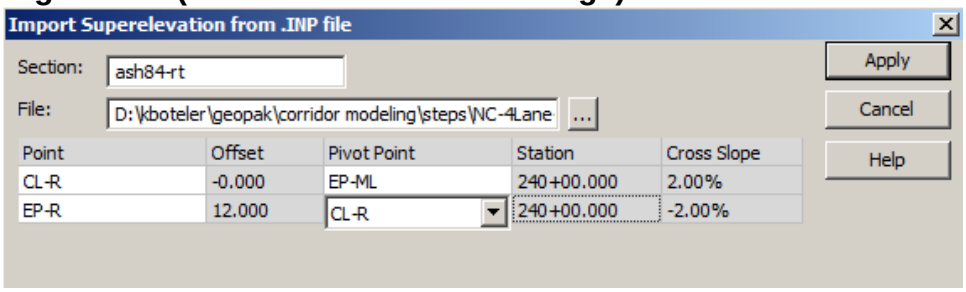
Note:

a) 2’ intervals through intersection.

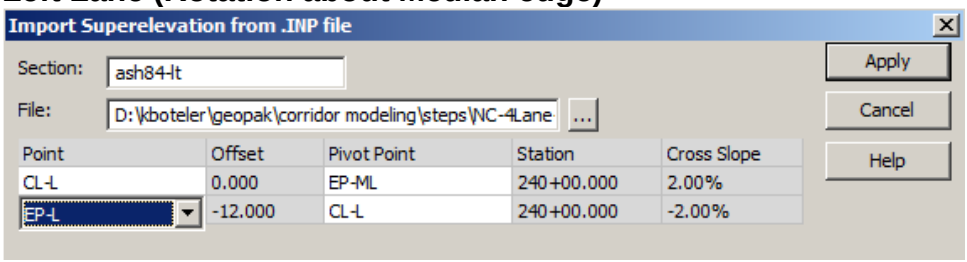
b) Reconstruction Folder also has 4-Lane divided typicals.

5) Import Superelevation

Right Lane (Rotation about Median edge)

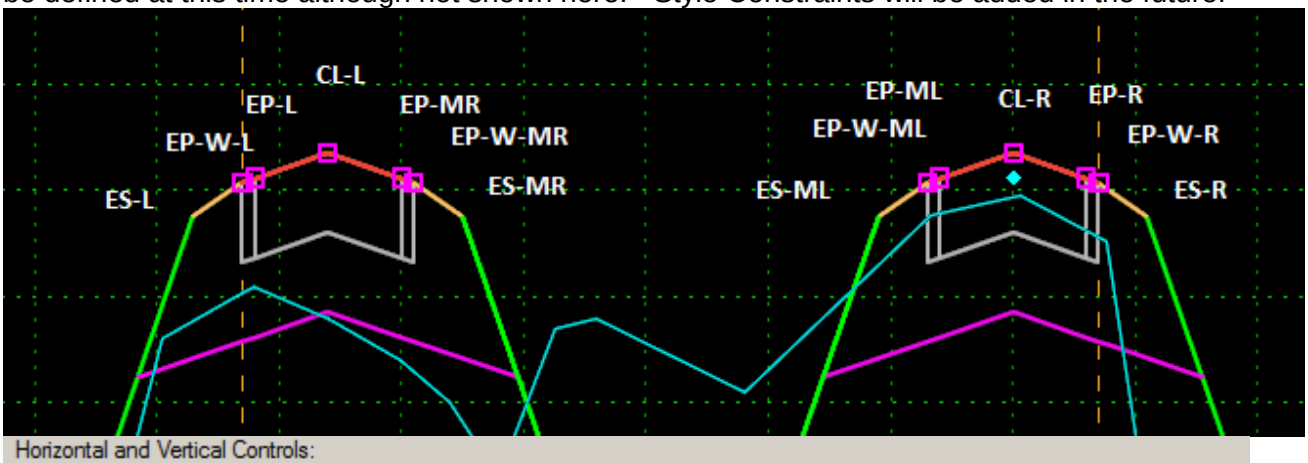


Left Lane (Rotation about Median edge)



6) Point Controls (Very Important to get these correct.)

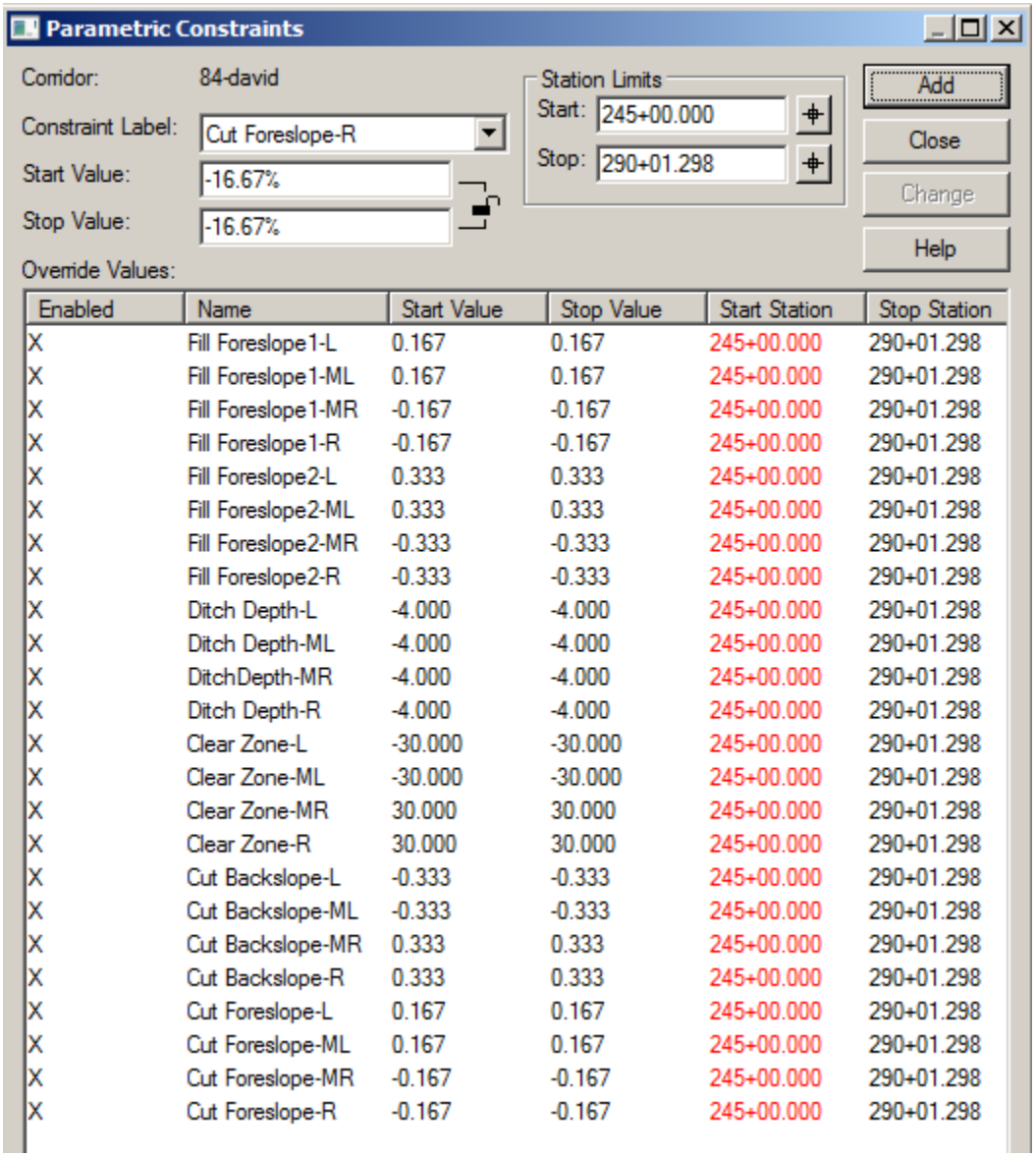
NOTE: You have to define Point Controls for EP for 4-Lane. Edge of Shoulder Points will also have to be defined at this time although not shown here. Style Constraints will be added in the future.

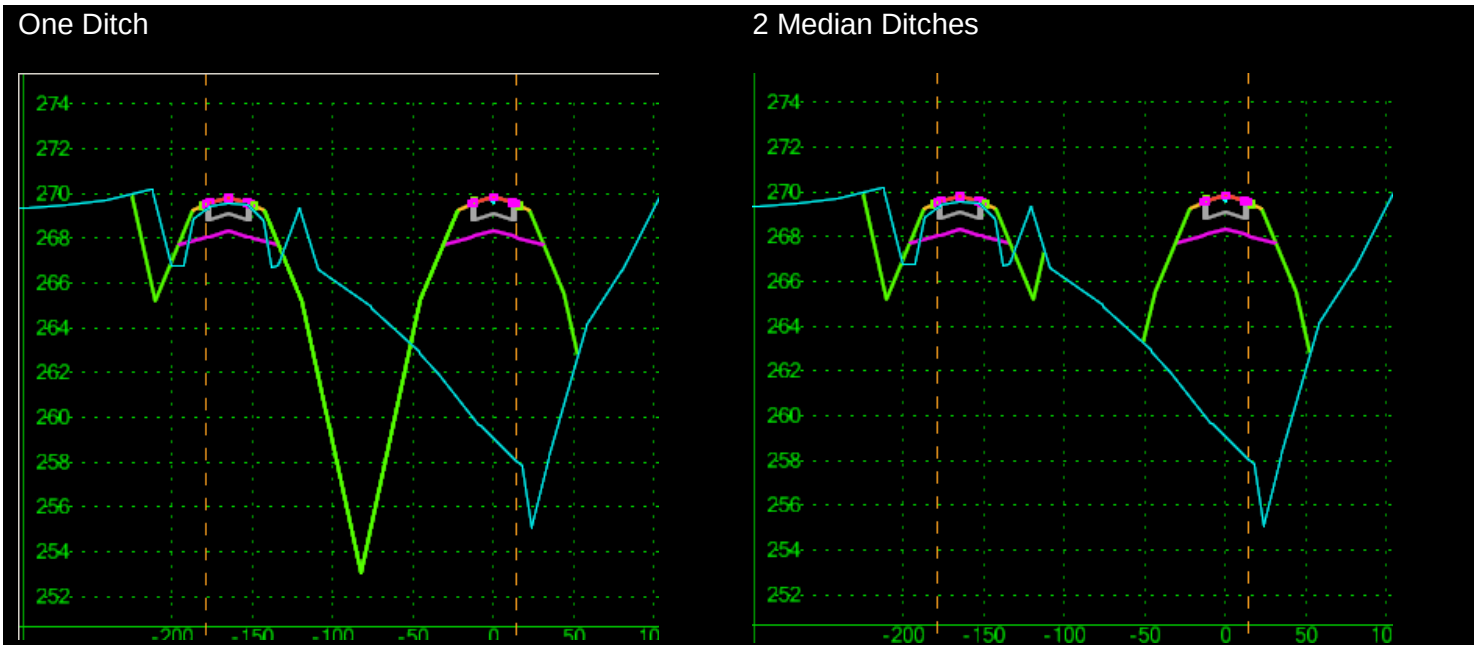
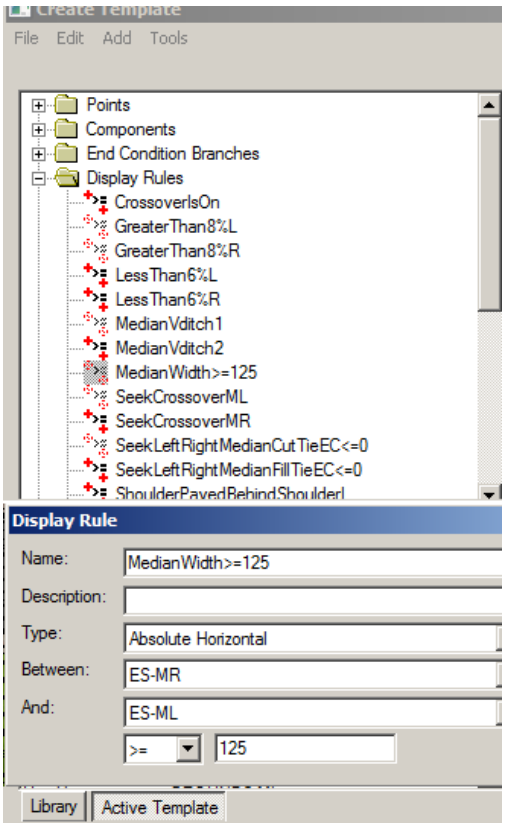


Horizontal and Vertical Controls:

En...	Pri...	Name	Start Station	Stop Station	Mode	Type	Control	Description
X	1	CL-L	245+00.000	280+01.298	Horizontal	Alignment	LT	
X	1	EP-L	245+00.000	280+01.298	Horizontal	Alignment	LT	
X	1	EP-MR	245+00.000	280+01.298	Both	Alignment	LT:PP84	
X	1	EP-R	245+00.000	280+00.000	Horizontal	Alignment	RT	
X	1	CL-R	245+00.000	280+00.000	Horizontal	Alignment	RT	
X	1	EP-W-L	240+00.000	290+01.298	Horizontal	Alignment	EP-84LT-L	
X	1	EP-W-MR	240+00.000	240+00.000	Horizontal	Alignment	EP-84LT-R	
X	1	EP-W-ML	240+00.000	240+00.000	Horizontal	Alignment	EP-84RT-L	
X	1	EP-W-R	240+00.000	290+01.298	Horizontal	Alignment	EP-84RT-R	
X	1	EP-ML	245+00.000	280+00.000	Both	Alignment	RT:PP84	

7) Parametric Parameters – Are set up for each roadway side.



Enabled	Name	Start Value	Stop Value	Start Station	Stop Station
X	Fill Foreslope1-L	0.167	0.167	245+00.000	290+01.298
X	Fill Foreslope1-ML	0.167	0.167	245+00.000	290+01.298
X	Fill Foreslope1-MR	-0.167	-0.167	245+00.000	290+01.298
X	Fill Foreslope1-R	-0.167	-0.167	245+00.000	290+01.298
X	Fill Foreslope2-L	0.333	0.333	245+00.000	290+01.298
X	Fill Foreslope2-ML	0.333	0.333	245+00.000	290+01.298
X	Fill Foreslope2-MR	-0.333	-0.333	245+00.000	290+01.298
X	Fill Foreslope2-R	-0.333	-0.333	245+00.000	290+01.298
X	Ditch Depth-L	-4.000	-4.000	245+00.000	290+01.298
X	Ditch Depth-ML	-4.000	-4.000	245+00.000	290+01.298
X	DitchDepth-MR	-4.000	-4.000	245+00.000	290+01.298
X	Ditch Depth-R	-4.000	-4.000	245+00.000	290+01.298
X	Clear Zone-L	-30.000	-30.000	245+00.000	290+01.298
X	Clear Zone-ML	-30.000	-30.000	245+00.000	290+01.298
X	Clear Zone-MR	30.000	30.000	245+00.000	290+01.298
X	Clear Zone-R	30.000	30.000	245+00.000	290+01.298
X	Cut Backslope-L	-0.333	-0.333	245+00.000	290+01.298
X	Cut Backslope-ML	-0.333	-0.333	245+00.000	290+01.298
X	Cut Backslope-MR	0.333	0.333	245+00.000	290+01.298
X	Cut Backslope-R	0.333	0.333	245+00.000	290+01.298
X	Cut Foreslope-L	0.167	0.167	245+00.000	290+01.298
X	Cut Foreslope-ML	0.167	0.167	245+00.000	290+01.298
X	Cut Foreslope-MR	-0.167	-0.167	245+00.000	290+01.298
X	Cut Foreslope-R	-0.167	-0.167	245+00.000	290+01.298

8) Two Median Ditches –
The template is set up to have one ditch for 125' CL to CL distance. To have multiple ditches, if the controlling criteria allows it, Edit Template, Tag "Active Template", Open Display Rules, & change the Median Width Variable from 125' to something less. This display rule value can be adjusted either way and is dependent on the distance between Edge of Shoulders in the median.