CatCurve

Tools for drawing catenary or hyperbolic curves.
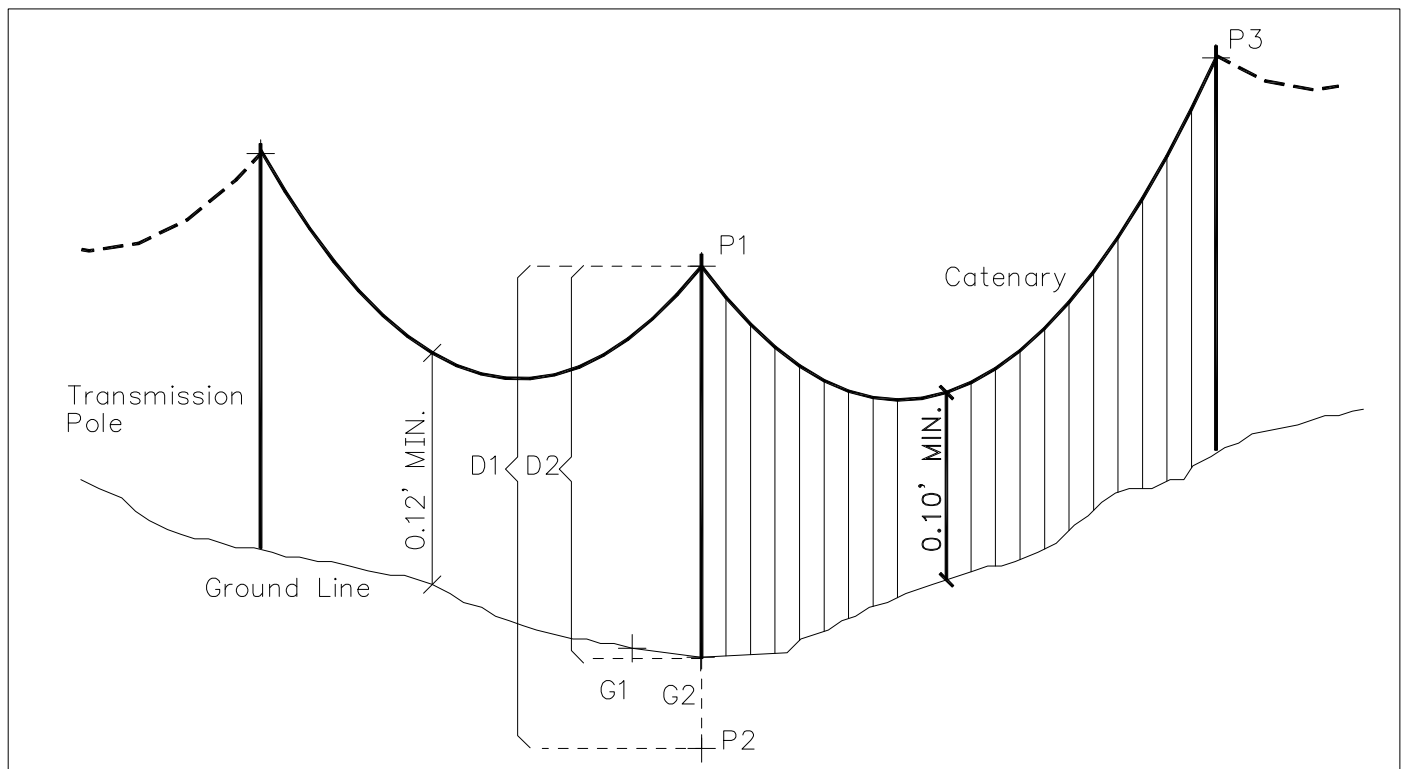*2DMvcl2g*

Catenary Sag Curve Ground Clearances

[2DMVcl2g]   Calculates the minimum vertical clearance between two 3D polylines. Uses the same scale ratio of **1:10** vertical scale to horizontal scale.

[2Dmvcl2g]

Select Catenary	> (select)
Select Ground Line	> (select)
Select Poleattr Block	> (select)
Poleattr Block Tag name	<MISC4>:
Minimum Line-2-Gnd Clearance is:	

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Warning about UNITS and Calculations when Loading

When loading 3DCAT.LSP a warning is displayed if the Units setting is other than Decimal [2] because the formulas used assume whole units as equal to 1 foot. Otherwise curves may not match your original template.

OUTPUT to screen

Display on screen of several Autolisp variable names and their set values after a program function run is available by typing (VALUES) at the Drawing Editors Command: prompt.

Calculations of CAT and 3DCAT saved to ASCII file

The purpose for writing Y3/Sag values to a file was to verify that the results I was getting from 3DCAT.LSP were the same as CAT.LSP. I also have been trying to document my work in the form of an instructional manual with command line prompts and arguments.