

In order to display a graphical layout of the galloping ellipses, it is necessary to enter two dimensional coordinates for 3 conductor attachment points. The coordinates for these points are best laid out in the Cartesian Coordinate System.

The attachment point furthest to the left and lowest in elevation should be considered the baseline value of (0,0). The other attachments are then measured from this point. Examples of this are shown in Fig. N1 and N2.

If there is no attachment point that meets the criteria of being in the lower left hand corner, then a layout similar to that shown in Fig. N3 should be used.

If the user is interested in viewing the proximity of ellipses between the conductor and OHGW, or to other circuits on the same structure with different conductor or sag characteristics, then it is necessary to run sag & tension calculations for each conductor or OHGW separately, and generate a separate DXF file for each wire. Each DXF file is then imported to a CAD program for overlay upon each other and/or a structure drawing. Refer to "Appendix T, DXF Transfer Sample" for a typical sample DXF import into a CAD drawing.

The layout in Fig. N1 is typical for a 3-phase system on a single pole with crossarm. The Attachment Locations on the left match the user's layout on the right.

Galloping Parameters

English Units

Attachment Locations

X1 0.0 Y1 0.0

X2 5.0 Y2 4.0

X3 10.0 Y3 0.0

S=Single D=Double loop S

N=No C=Create Print/Plot Data N

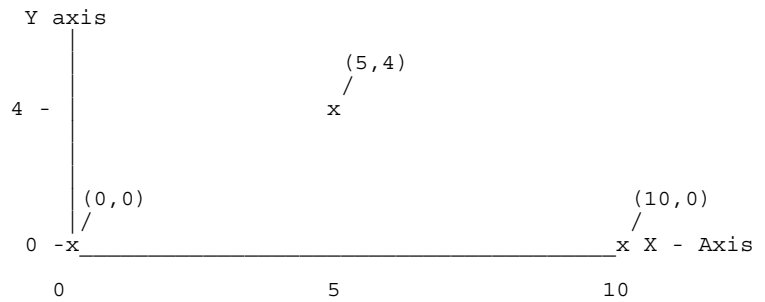


Fig. N1

The layout in Fig. N2 is typical for one circuit of a 2 circuit vertical structure. The Attachment Locations on the left match the user's layout on the right.

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Galloping Parameters
English Units

Attachment Locations

X1  0.0  Y1  0.0
X2  4.0  Y2  12.0
X3  0.0  Y3  24.0

S=Single D=Double loop  S
N=No C=Create Print/Plot Data N
    
```

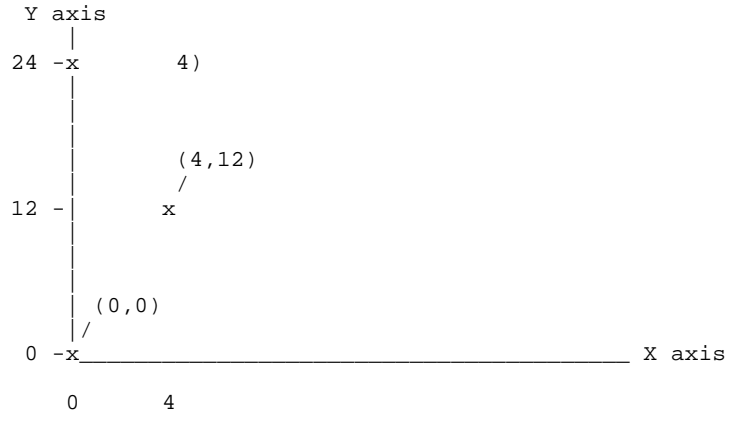


Fig. N2

The layout in Fig. N3 is typical for a 3-phase system on a single pole davit arm or post insulator. The Attachment Locations on the left match the user's layout on the right.

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Galloping Parameters
English Units

Attachment Locations

X1  0.0  Y1  11.0
X2  18.0 Y2  0.0
X3  16.0 Y3  22.0

S=Single D=Double loop  S
N=No C=Create Print/Plot Data N
    
```

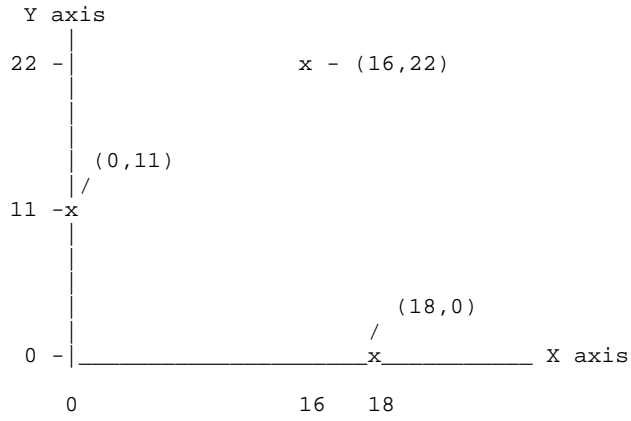


Fig. N3