CDOT Measure XY Distance Tool



This document guides you through measuring distances using the Measure XY Distance Tool. This tool can be used in both MicroStation and Redline.

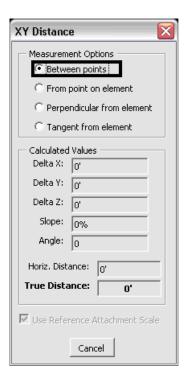
Measure XY Distance

Launching Measure XY Distance

 The Measure XY Distance utility can be used in both MicroStation and Redline.
For either application it is launched in the same way. From the CDOT Menu select
Add On's > Measure XY Distance

Measuring Between Points

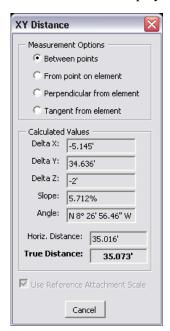
2. In the XY Distance dialog under *Measurement Options* select Between points.



Note: The **Use Reference Attachment Scale** option is grayed out when the **Between points** option is selected. Using the reference attachment scale calculation requires an element be selected from a reference attachment. Since this option does not require a selected element the option is disabled.

CDOT Measure XY Distance Tool.pdf

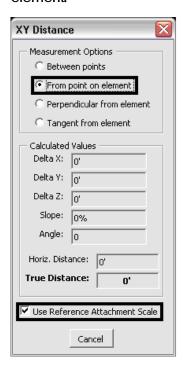
3. **<D>** two points in the design file to measure the distance between and the *Calculated Values* fields will display the computed data.



<u>Note:</u> Distance and Angle values will be displayed based on *Coordinate Readout* settings establish in the design files settings. To change coordinate readout settings select Settings > Design File and choose Coordinate Readout from the *Category* list.

Measuring from Point on Element

4. In the XY Distance dialog under *Measurement Options* select From point on element.



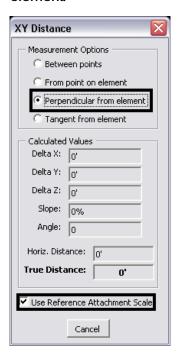
- 5. Choose either *reference scale* or *design values* by toggling the Use Reference Attachment Scale checkbox on/off. When the Use Reference Attachment Scale checkbox is on, the *Calculated Values* will be scaled by the reference attachment scale if the selected element is in a reference attachment.
- 6. **D**> a point on the element to be measured from.
- 7. <D> the second point to be measured to. The second point can, but does not have to be, on an element. The measured distance will display in the *Calculated Values* fields.

<u>Note:</u> Measurements with this method require selecting at least one element. If the measurement will not start on an element choose **Between Points** under *Measurement Options*. If selecting an element in a reference attachment the *Locate* setting must be turned on for that attachment.

CDOT Measure XY Distance Tool.pdf

Measuring Perpendicular from Element

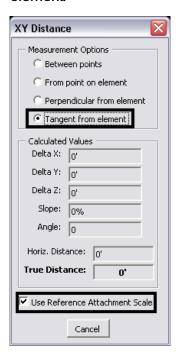
8. In the XY Distance dialog under *Measurement Options* select Perpendicular from element.



- 9. Choose either *reference scale* or *design values* by toggling the Use Reference Attachment Scale checkbox on/off.
- 10. <D> a point on the first element to begin measuring from.
- 11. <D> the second point to be measured to. The second point can, but does not have to be on an element. The measured distance will display in the *Calculated Values* fields.

Measuring Tangent from Element

12. In the XY Distance dialog under *Measurement Options* select Tangent from element.



- 13. Choose either *reference scale* or *design values* by toggling the Use Reference Attachment Scale checkbox on/off.
- 14. **D>** a point on the first element to begin measuring from.
- 15. **<D>** the second point to be measured to. The second point can, but does not have to be on an element. The measured distance will display in the *Calculated Values* fields.