

$$\theta = (OPP/HYP) \text{ Inv Sin}$$

$$\theta = (ADJ/HYP) \text{ Inv Cos}$$

$$\theta = (OPP/ADJ) \text{ Inv Tan}$$

$$\text{Sin } \theta = \frac{OPP}{HYP}$$

$$\text{Cos } \theta = \frac{ADJ}{HYP}$$

$$\text{Tan } \theta = \frac{OPP}{ADJ}$$

$$OPP = HYP \times \text{Sin } \theta$$

$$HYP = OPP / \text{Sin } \theta$$

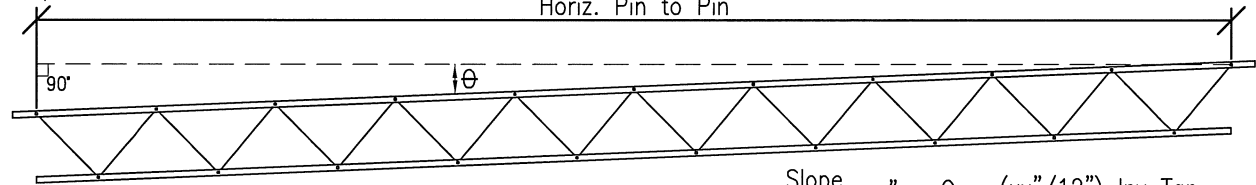
$$ADJ = HYP \times \text{Cos } \theta$$

$$HYP = ADJ / \text{Cos } \theta$$

$$OPP = ADJ \times \text{Tan } \theta$$

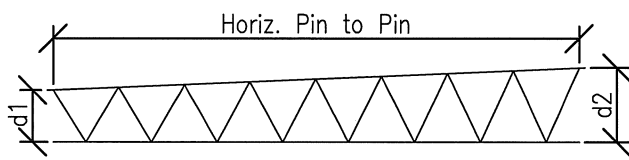
$$ADJ = OPP / \text{Tan } \theta$$

Slope Correction



$$\text{Slope Pin to Pin (HYP)} = \text{Horiz. Pin to Pin (ADJ)} / \text{Cos } \theta$$

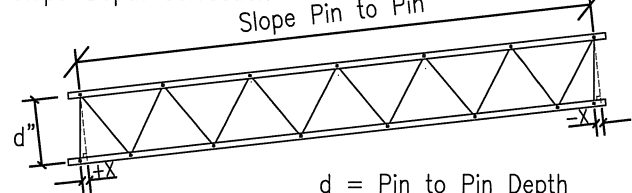
$$\frac{\text{Slope}}{12''} = \frac{xx''}{12''} \quad \theta = (xx''/12'') \text{ Inv Tan}$$



$$(d2'' - d1'') / \text{Horiz. Pin to Pin (Ft.)} = \text{Slope (In./Ft.)}$$

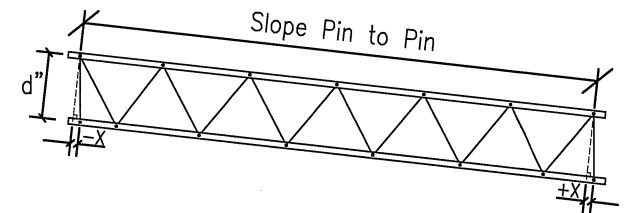
$$\theta = (\text{Slope (In./Ft.)} / 12 \text{ In./ft.}) \text{ Inv Tan}$$

Slope-Depth Correction

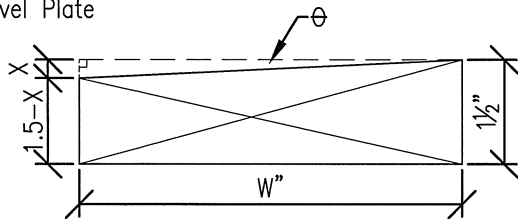


$$d = \text{Pin to Pin Depth}$$

$$X(OPP) = d(ADJ) \times \text{Tan } \theta$$



Bevel Plate



$$X(OPP) = W(ADJ) \times \text{Tan } \theta$$

$$(\text{Elev.1''} - \text{Elev.2''}) / \text{Horiz. Bldg. Dim. (Ft.)} = \text{Slope (In./Ft.)}$$