Preview

Preview geometries in [Roadway mode ▼]

(Math.Tan (-WallBatter*(Math.Pi/180)))*100

AL1

(Math.Tan(WallBatter))*100

AL1

AP1 AP1

This is the desired location for AP1

P11 L14 P12
L13 S3 L15
TopElevation
P1 L46 P5
L5
P6
L1
S1
Surface
P2
L2
ToeElevation
P3 L31 P4 L9 P9
P7 L7
BaseElevation
L8 S2 L10
FtgElevation
P8 L12 P10

☐ Codes ☐ Comments [Fit to Screen]

Flowchart

...y ▸ Flowchart ▸ Top of Wall Attac... ▸ Retaining Wall

- Retaining Wall
  - P1
  - AP1&AL1
  - P2&L1
  - P3&L2
  - P4&L3

🔍 100%

Properties

▲ Point
- Point Number: P2
- Point Codes: ToeWF

▲ Point Geometry Type
- Type: Angle and Delta Y

▲ Point Geometry Properties
- From Point: P1
- Reference Point: None
- Reverse Angle Reference: ☐
- Angle: -(WallBatter)+90
- Delta Y: -WallHeight
- Elevation Target (overrides Delta Y): ToeElevation

▲ Link
- Add Link to From Point: ☑
- Name: L1
- Codes: Top,RWall,WallFace

▲ Miscellaneous
- Comment:

Point Number

Flowchart

ubassembly ▸ Flowchart ▸ Top of Wall Attac... ▸ Retaining Wall

- Retaining Wall
  - P1
  - AP1&AL1
  - P2&L1
  - P3&L2
  - P4&L3
  - P5&L4

🔍 100%

Properties

▲ Point
- Point Number: AP1

▲ Point Geometry Type
- Type: Slope to Surface

▲ Point Geometry Properties
- From Point: P1
- Slope: (Math.Tan (WallBatter))*100
- Reverse Slope Direction: ☑
- Surface Target: Surface

▲ Link
- Add Link to From Point: ☑
- Name: AL1

▲ Miscellaneous
- Comment:
- DeltaX for Layout Mode: 5
- Show Errors: ☑

Point Number

Input/Output Parameters

Name	Type	Direction	Default Value	DisplayName
Side	Side	Input	Right	
AttachPoint	String	Input	Top	Attach Point (Top, Toe, Back)
WallWidth	Double	Input	0.5	Wall Width
WallHeight	Double	Input	3	Wall Height
TopHeight	Double	Input	0.2	Top Height
IncludeCap	Yes\No	Input	Yes	Include Cap
CapHeight	Double	Input	0.15	Cap Height
WallBatter	Double	Input	3	Wall Batter (degrees)
BuryDepth	Double	Input	0.5	Toe of Wall Bury Depth
ToeExt	Double	Input	0.25	Toe Extension
HealExt	Double	Input	0.25	Heal Extension
FootingDepth	Double	Input	0.25	Footing Depth
FootingSlope	Slope	Input	0.00:1	Footing Side Slope (x:1)
RWallShape	String	Input	Concrete	Retaining Wall Shape Code
FtgShape	String	Input	Concrete	Footing Shape Code

Create parameter

[Packet Settings] [Input/Output Parameters] [Target Parameters] [Superelevation] [Event Viewer]

This formula never places point AP1 on top of line L1. Does this angle need to be in Radians? If so, what would the formula be?

This works properly and draws the wall with a 3 degree batter.