

Workflow Descriptions – Soldier Pile Wall

Contents

Workflow 1: Geometric Modeling – Soldier Pile Wall 1

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1. Import Main Wall Alignment with Top of Wall Profile from LandXML file.
2. Import OG & FG Surfaces from LandXML file
3. Define Drilled Hole Size
4. Define Pile Input Parameters
 - a. Pile Type: Material, Shape, & Size
 - b. Pile Number & Spacing
 - c. Stationing and Offset Distance from alignment for Pile Centerline Locations
 - d. Cutoff Elevation and Tip Elevation
5. Define Lagging Input Parameters
 - a. Lagging Type: Material, Shape, & Size
 - b. First Lagging Offset from Top of Wall
 - c. Quantity per section between piles
6. Define Stay Plate Input Parameters
 - a. Stay Plate Type: Material, Shape, Size, Spacing
 - b. Stay Plate Offset from Top of Wall
7. Create Piles at designated centerline locations along the Main Wall Alignment given the Input Parameters.
8. Create Lagging at designated locations along the main Wall Alignment given the Input Parameters.
9. Create Stay Plate at designated locations along the main Wall Alignment given the Input Parameters.
10. Create Drilled Hole representations along the Main Wall Alignment given the Input Parameters and the OG Surface
11. Create Concrete Backfill representations along the Main Wall Alignment given the Input Parameters and the FG Surface
12. Add Structural Facing Detail (if applicable)
 - a. Define Facing: Material, Shape, & Size
13. Add optional elements (for example)
 - a. Barrier Slab
 - b. Reinforcing
 - c. Lean Concrete

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- d. Ground Anchors
 - e. Gutter
14. Assign additional user defined attributes to each component using the Object ID
(See *E-01_CT_Object-ID_Reqs.pdf*)