



**EAGLE
POINT**



Overview

Siteworks for Revit®

Model your site with grading tools and components such as streets and sidewalks.

Siteworks for Revit® provides functionality within Autodesk Revit® to shape the terrain with grading tools that allow you to create the site plan with pads, streets, sidewalks, berms, swales, retaining walls, steps and parking lots, all while maintaining accurate toposurfaces.

A part of the Eagle Point Revit solutions, Siteworks for Revit saves you time in designing your plan by providing you with tools embedded inside Autodesk Revit® that you can use to quickly create the site plan. You can model different alternatives for mass grading, building pads, streets, sidewalks, parking lots, retaining walls and steps.

TOPOSURFACE CREATION AND EDITING

Using Siteworks, you can import LandXML file with toposurface information directly into your model. This ensures that you bring in the toposurface model as it was created by the engineer or surveyor using AutoCAD Civil 3D or other engineering and surveying tools.

Easily create a site plan by sketching a line and then using Siteworks to create terrain features that have elevations, grade and slope controls. Special terrain families within Siteworks provide you with parameters that control widths, cut and fill slopes and other projection settings. You can also manipulate the Siteworks components using editing tools to change their location, elevation, grade or geometry. As you make these changes, Siteworks keeps your toposurfaces updated for accurate cut and fill calculations.

SITE COMPONENTS

Siteworks provides a simple and easy way to convert a sketched line into a street, sidewalk, curb and gutter, retaining wall, parking lot, or steps in the model. Components are placed as loft forms that follow the terrain, constant elevation or their own grade. Just like with the toposurface features, you can manipulate Siteworks components using editing tools to change their location, elevation, grade or geometry. Siteworks automatically

updates and maintains the underlying toposurface.

REPORTS

Siteworks creates and works with standard Revit components so you can take advantage of the model schedules for areas, surfaces and cut-fill volumes. You also have access to complimentary detailed reports.



Play Video



Siteworks
for Revit

FEATURE	Autodesk Revit®	Siteworks for Revit®
Toposurface Creation		
Place Points Import Points (XYZ) From linked file containing contour lines with elevations LandXML (multiple surfaces / alignments / all Revit versions)	Yes Yes Yes	Yes
Toposurface Editing: Soft Terrain features		
Berms Width and height control Elevation parameter Slope projection parameters (cut/fill slope, intervals) to surface' parameters	No	Yes
Swales / Ditches Width and height control Elevation parameter Slope projection parameters (cut/fill slope, intervals) to surface' parameters	No	Yes
Pads Inside, outside projection Elevation parameter Slope projection parameters (cut/fill slope, intervals) to surface' parameters	No	Yes
Feature editing Move, rotate, delete, elevation and grade changes Toposurfaces are updated	No	Yes
Toposurface Editing: Hard Terrain features		
Parameters Street type parameters (lane width, curb, sidewalk, boulevard, slope projections) Sidewalk parameters (width, slope projection) Retaining wall parameters (height, width, slope projection) Parking lot parameters (curb, slope projection) Curb and gutter parameters (type) Step parameters (tread, rise, run, width)	No	Yes
General Toposurfaces are updated 3D solid mass that follows the terrain is placed in the model Surface and projected areas reported Volume reports Material assignment	No	Yes
Feature editing Move, rotate, delete, elevation and grade changes Toposurfaces are updated	No	Yes

ABOUT EAGLE POINT

Since 1983, Eagle Point has provided technology solutions and services to the AEC market. We use a defined process to explore your business and provide you with the right balance of solutions to help your organization thrive. We've helped over 30,000 clients worldwide.