

Fast Track to Surface Modeling in Carlson Software – Session #1-1

Recorded 7/25/23

This session introduces the fundamentals of surface modeling in Carlson Software, covering how to build, inspect, and refine existing ground surfaces using points, breaklines, and triangulation tools. Participants learn practical workflows for creating accurate TIN models, troubleshooting elevation issues, and improving contour quality.

Key Topics:

- Building and validating existing ground surfaces
- Using Drawing Inspector, 3D Viewer, and Shrink Wrap tools
- Managing non-surface points and breaklines
- Triangulate & Contour workflows
- Field-to-Finish automation and contour aesthetics

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This session was presented by Jennifer DiBona on 07/25/2023.

Customizing Carlson for

Erosion Control Permitting and Design – Session 2-3

Recorded 9/21/2023

This webinar demonstrates advanced techniques for customizing Carlson Software for erosion control, permitting, and design workflows. It covers grading swales, creating stockpiles, managing surfaces, and automating plan set production using sheet sets and data links.

Key Topics:

- Grading and modeling swales and ponds in Carlson Civil
- Surface management and triangulation techniques
- Automating erosion control plan sets with sheet sets
- Linking CAD tables with Excel for dynamic calculations
- Integrating GIS data and slope analysis

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This session was presented by Travis Maxwell on 09/21/2023.

Customizing Carlson for Erosion Control Permitting and

Design – Session 2-2

Recorded 9/21/2023

This training session, led by Travis Maxwell, demonstrates advanced customization of Carlson Civil software for erosion control design, permitting, and hydrology workflows. The session covers watershed analysis, surface modeling, pond design, stormwater network setup, and sediment basin sizing techniques.

Key Topics:

- Watershed analysis and surface preparation
- Time of concentration and runoff calculations
- Sediment basin and pond design using Carlson tools
- Storm Net setup and drainage network modeling
- Integration of hydrology and surface data for erosion control

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This session was presented by Travis Maxwell on 09/21/2023.

Customizing Carlson for Erosion Control Permitting &

Design – Session 2-1

Recorded 9-21-2023

This webinar session, led by Travis and moderated by Jennifer, continues training on customizing Carlson Civil Suite for erosion control design. The presentation demonstrates workspace customization, creating line types, setting up base maps, and using GIS and hydrology tools to streamline erosion control workflows.

Key Topics:

- Customizing Carlson Civil Suite workspace and menus
- Creating and managing custom line types and layers
- Building erosion control templates and legends
- Integrating GIS data and base maps
- Setting up sheet sets and map templates

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This session was presented by Travis Maxwell on 09/21/2023.

Customizing Carlson for Erosion Control Permitting & Design 1-3

Recorded 9/19/23

This training session covers advanced Carlson CAD workflows for erosion control and survey cleanup, including Excel-driven macros, layer translation, and automation using scripts and tool palettes. Participants learn how to streamline project setup, manage templates, and integrate GIS and public data into CAD workflows.

Key Topics:

- Automating CAD notes and blocks using Excel and scripts
- Cleaning and translating survey layers
- Setting up templates, legends, and tool palettes
- Integrating GIS data and public map services
- Handling PDFs, symbols, and block libraries

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This session was presented by Travis Maxwell on 09/19/2023.

Customizing Carlson for Erosion Control Design – Session 1-1

Recorded 09/19/2023.

This webinar introduces advanced customization techniques for Carlson Software's user interface, focusing on erosion control, permitting, and design workflows. Travis demonstrates how to modify menus, toolbars, and workspaces in IntelliCAD to streamline productivity for civil and environmental design professionals.

Key Topics:

- Customizing Carlson's user interface (CUI)
- Creating and managing workspaces
- Combining modules (Civil, Hydrology, GIS, Survey)
- Editing menus, toolbars, and tool palettes
- Workflow optimization for erosion control design

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This session was presented by Travis Maxwell on 09/19/2023.

Site Grading Case Study for 36,000 SF Warehouse

**A Virtual Webinar Using Carlson
Software – Learn to Balance Site**

Grading

The webinar features Travis Maxwell discussing a warehouse project in North Carolina. He explains grading techniques, including site layout and design, and shares tools for grading like topography import and contour creation. Travis highlights the effectiveness of Civil This webinar features professional engineer Travis Maxwell demonstrating efficient grading techniques in Carlson Software for a 36,000 sq ft warehouse site. He walks through balancing cut/fill, using RoadNet and pad templates, and optimizing surfaces for storm-water design and machine control.

Key Topics:

- Importing and simplifying Google-based topography
- Using pad templates to find site balance elevations
- Applying RoadNet for curved drives and parking areas
- Creating 3D polylines for split-level buildings and docks
- Comparing Carlson Software vs Civil 3D for complex terrain
- 3D for simple projects and contrasts it with Carlson for precision in complex terrains

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This session was presented by Travis Maxwell on 05/23/2024.

Sanitary Sewer Pump Station

Design in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Design Pump Stations

This webinar provides a detailed walkthrough of designing sanitary sewer pump stations using Carlson Hydrology and Structure tools. Presenter Travis demonstrates how to calculate system and pump curves, size wet wells, and integrate Excel-based calculations with Carlson's Lift Station Design command.

Key Topics:

- Carlson Hydrology Lift Station Design tool
- Pump and system curve calculations
- Wet well sizing and float switch configuration
- Flow estimation for residential and commercial systems
- Common design pitfalls and troubleshooting

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This session was presented by Travis Maxwell on 04/10/2024.

Pond Design with Carlson

Software

A Virtual Webinar Using Carlson Software – Learn to Design Stormwater Ponds

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, provides a detailed walkthrough of pond design using Carlson Software. It covers grading techniques, pond creation, linking to HydroNET models, and practical tips for efficient hydrology workflows.

Key Topics:

- Pond grading and design using Carlson's Pond Grader and Bench Pond tools
- Linking pond storage files to HydroNET for stormwater modeling
- Troubleshooting grading errors and optimizing workflows
- Upcoming webinars and training opportunities

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This session was presented by Travis Maxwell on 02/23/2024.

2024 Virtual Workshops – Session #4-4 Recorded 12/11/2024

This advanced Carlson Software virtual workshop, led by Mark Long, demonstrates integrated civil and hydrology design workflows using Carlson Hydrology, Sewer Network, and Precision 3D Hydro. Participants learn how to model surfaces, design storm and sanitary systems, and visualize drainage networks in 3D for more efficient, accurate engineering.

Key Topics:

- Precision 3D Hydro and Dynamic CAD integration
- Storm drainage and sewer network design in Carlson Hydrology
- Surface modeling, watershed analysis, and runoff coefficients
- Pipe sizing, hydraulic grade line (HGL) setup, and profile generation
- Utility network creation (water, conduit, laterals)
- Future Carlson Software enhancements (2026 release preview)

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This session was presented by Mark Long on 12/11/2024.