

# Fast Track to Surface Modeling in Carlson Software – Session 2-2

## Recording 07/27/2023

This Carlson Software training webinar continues the Fast Track Surface Modeling series, focusing on advanced grading, 3D polyline editing, and surface modeling workflows. The session demonstrates practical tools for curb, sidewalk, and parking lot design, as well as road network setup and volume calculations.

### Key Topics:

- 3D polyline elevation editing and grading
- Creating and adjusting curb, sidewalk, and parking lot surfaces
- Using Carlson's "Points by Slope" and "2D to 3D Polyline" tools
- Building and merging surface models
- Road Network (RoadNet) setup and template creation

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 07/27/2023.

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# Fast Track to Surface Modeling in Carlson Software – Session 2-1

## Recorded 7/27/23

This advanced Carlson Software training session covers surface modeling workflows, LandXML data exchange, pad grading, and volume calculations. Participants learn practical grading and modeling techniques for civil and survey projects using Carlson Civil and Survey modules.

### Key Topics:

- LandXML export/import and data archiving
- Pad grading and daylight projection
- Volume calculations and balancing
- Surface merging and cut/fill analysis
- Stockpile volume computation

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This session was presented by Jennifer DiBona on 07/27/2023.

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# Fast Track to Surface Modeling

# in Carlson Software – Session #1-3

## Recorded 07/25/2023

This session is the third installment in the *Fast Track to Surface Modeling in Carlson Software* training series. It provides a detailed walkthrough of surface modeling workflows, including labeling, 3D polyline editing, pad grading, daylighting, and design pad templates within Carlson Civil and Survey.

### Key Topics:

- Labeling and annotating 3D polylines
- Elevating 2D polylines using surfaces and slope calculations
- Pad grading and daylighting techniques
- Using Design Pad Template for automated grading

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

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# Fast Track to Surface Modeling in Carlson Software – Session

# #1-2

## Recorded 07/25/2023

This Carlson Software training session led by That CAD Girl provides a detailed walkthrough of surface modeling techniques, focusing on creating and refining TIN and grid surfaces from contours, points, and public data sources. The webinar demonstrates best practices, pitfalls to avoid, and advanced Carlson Civil tools for accurate grading and surface preparation.

### Key Topics:

- Building surfaces from contours and avoiding flat triangles
- Using Carlson's triangulation and contouring tools
- Importing public elevation data (Google Earth, NED, LiDAR DEM)
- Managing TIN vs GRID files and surface boundaries
- Elevating 2D polylines to 3D for grading and design

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

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# 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.

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# 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.

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# 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.

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# **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.

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# **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.

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# **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.