

Elevating Polylines and Surface Modeling with Carlson Construction and Takeoff

A Virtual Webinar Using Carlson Software – Learn to Build Surface Models

This webinar demonstrates how to elevate 2D polylines into 3D polylines and perform surface modeling using Carlson Construction and Takeoff. Jennifer DiBona walks through practical workflows for cleaning drawings, assigning elevations, building surfaces, and calculating volumes for construction and land development projects.

Key Topics:

- Elevating 2D polylines to 3D for surface modeling
- Using Carlson Civil, Construction, and Takeoff tools
- Drawing cleanup and contour elevation assignment
- Building and analyzing surfaces with SiteNet
- Calculating volumes, materials, and topsoil replacement

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

This session was presented by Jennifer DiBona on 03/18/2025.

That CAD Girl

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Fast Track to Carlson Survey – Session #1-1 Recorded 5/14/24

Data workflow, RW5 file handling, and compass-rule and least-squares adjustments for field-to-finish survey data.

Key Topics:

- Using *Edit Process Raw Data* and RW5 file structure
- Import/export of raw data from various instruments
- Compass-rule and least-squares (SNET) adjustments
- Managing control points, side shots, and checkpoints

- Integrating GPS and total-station data
- File management and Carlson Cloud Link for field coordination

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This session was presented by Doug Aaberg on 05/14/2024.

Case Study for a Sanitary Sewer Collection System

A Virtual Webinar Using Carlson Software – Learn to Design Sanitary Sewer Collection Systems

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, provided a detailed case study on designing a sanitary sewer collection system using Carlson Software. The session covered practical workflows, from project setup and Google Earth integration to sewer network creation, labeling, and profile generation.

Key Topics:

- Carlson Sewer Network setup and configuration
- Exporting CAD data to Google Earth
- Sewer design workflow and profile creation
- Managing plan view and profile labels
- Troubleshooting and best practices

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This session was presented by Travis Maxwell on 02/27/2025.

Getting Started in Carlson Session #3-3

Learn how to streamline your surveying workflow with Carlson Survey's deed entry, correlation, and field-to-finish tools. This session covers practical CAD automation techniques for accurate boundary creation, point management, and efficient drafting.

Key Topics:

- Entering and processing deed descriptions
- Correcting closure errors and editing PDD files
- Translating and correlating deed points with field data
- Creating and customizing Field-to-Finish (FLD) files
- Managing point groups, layers, and attributes
- Using 3D Drawing Viewer and Layer Inspector for QA
- Snapping and drafting best practices
- Drawing tangent and non-tangent curves
- Generating legends and using full-name descriptions
- Carlson Survey tips, automation, and workflow optimization

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This session was presented by Jennifer DiBona on 9/18/2025.

Getting Started in Carlson Session #3-1

Learn how to set up and customize Carlson Software with this in-depth training session led by That CAD Girl. Discover best practices for configuring projects, managing data files, and optimizing your CAD environment for surveying and civil design.

Key Topics Covered:

- Carlson Software installation and startup
- IntelliCAD vs. AutoCAD interface overview
- Using the Start Page, templates, and drawing setup
- Customizing toolbars, ribbons, and menus
- Carlson modules: Survey, Civil, Hydrology, GIS, and more
- Object linking and external data file management (CRD, CL, TIN)
- Project folder organization and subfolder setup
- Dropbox integration for field and office collaboration
- Default drawing settings and coordinate systems
- Accessing help, updates, and version builds
- Saving and sharing configuration files for office

standards

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This session was presented by Jennifer DiBona on 9/18/2025.

CAD and Carlson Tips & Tricks

A Virtual Webinar Using Carlson Software – Improve Deed Boundary Drafting

This Carlson CAD tips and tricks deed boundaries webinar virtual class, from *That CAD Girl* shows how to draft, troubleshoot, and label property boundaries more efficiently. Jennifer walks through both IntelliCAD and Carlson workflows, showing how to draft, troubleshoot, and label property boundaries efficiently.

Key Topics:

- Drawing and editing lines, arcs, and polylines in IntelliCAD
- Entering deed boundaries using CAD coordinates and Carlson deed tools
- Understanding coordinate systems (northing/easting vs. X/Y)
- Processing and troubleshooting deed files for closure accuracy
- Automating lot labeling, area calculations, and setback

creation

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This session was presented by Jennifer DiBona on 10/15/2025.

Basics of Surface Modeling in Carlson Software

A Virtual Webinar Using Carlson Software – Build Accurate Surface Models

This webinar provides a detailed walkthrough of surface modeling fundamentals in Carlson Software, covering data inspection, triangulation, contour generation, and integration with external data sources. Attendees learn practical workflows for building accurate surfaces using points, breaklines, and field-to-finish automation.

Key Topics:

- Preparing and inspecting data for surface modeling
- Creating and refining TIN surfaces and contours
- Using breaklines and non-surface points
- Automating workflows with Field-to-Finish
- Integrating Google Earth and GIS imagery

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This session was presented by Jennifer DiBona on 7/3/2025.

Carlson Field to Finish

A Virtual Webinar Using Carlson Software – Learn to Automate Survey Drafting

This webinar provided an in-depth overview of Carlson Software's **Field to Finish** feature, explaining how to automate the process of converting field survey data into CAD drawings. Jennifer demonstrated how to create and configure **FLD (Field Code) files**, associate them with **CRD (Coordinate) files**, and manage symbols, layers, and linework for efficient drafting. The session also covered upcoming training events, practical examples of field code setup, and advanced customization options for survey workflows.

Key Topics:

- Overview of Carlson Field to Finish concepts
- Creating and editing FLD (field code) files
- Managing point layers, symbols, and linework
- Using special codes and description formatting
- Building legends and plotting best practices

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This session was presented by Jennifer DiBona, on 09/04/2025.

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Survey Project from Start to Finish

Recorded 1/19/2023

This webinar, *Survey Project from Start to Finish*, walks through the complete process of managing a survey project using Carlson Survey 2023 within IntelliCAD. It covers data setup, importing field points, deed entry, correlation, field-to-finish processing, and final deliverables including maps, legends, and exports.

Key Topics:

- Carlson Survey configuration and project setup
- Importing and managing point data (CRD files, point groups)
- Deed entry, correlation, and boundary adjustment
- Field-to-Finish automation for drawing and labeling
- Exporting to Google Earth and creating final deliverables

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This session was presented by Jennifer DiBona on 01/19/2023.