

Understanding Changes to Projections and Zones in Carlson 2024

A Virtual Webinar Using Carlson Software – Learn to Manage Projection Zones

This webinar, hosted by That CAD Girl and presented by Carlson Software's Doug Oberg, explains the updates to projection and zone settings introduced in Carlson 2024. It clarifies the purpose of new prompts, datum realizations, and configuration options to help surveyors transition smoothly to the latest version.

Key Topics:

- Changes to projection and datum settings in Carlson 2024
- Understanding NAD83 realizations and EPSG codes
- Lat/Long transformation toggle and its implications
- Backward compatibility and upgrade recommendations
- Future improvements planned for Carlson 2025

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This session was presented by Doug Aaberg on 03/21/2024.

That CAD Girl

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SurvNet Least Squares In Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Analyze Survey Networks

This recorded webinar provides a detailed overview of Carlson SurvNet's Least Squares Adjustment tools, presented by surveyor and software developer Donnie Stallings. The session covers the theory behind least squares, practical setup and configuration

in SurvNet, and interpretation of adjustment reports for survey network analysis.

Key Topics:

- Fundamentals of Least Squares Adjustment
- Carlson SurvNet configuration and settings
- Processing total station and GPS data
- Reading and interpreting adjustment reports
- Troubleshooting and blunder detection

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This session was presented by Donnie Stallings on 04/04/2024.

SurvNet Least Squares – Working with Project Datasets

A Virtual Webinar Using Carlson Software – Learn to Analyze Survey Networks

This webinar, led by Donnie Stallings, explored advanced surveying workflows in Carlson Software's Serve Net/Least Squares module. The session covered local coordinate systems, EDM calibration, blunder detection, and ALTA/NSPS survey

accuracy verification using real-world data examples.

Key Topics:

- Serve Net Least Squares adjustment in Carlson Software
- Local vs. State Plane coordinate systems
- EDM calibration and error detection
- Blunder detection routines
- ALTA/NSPS relative accuracy testing

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This session was presented by Donnie Stallings on 06/13/2024.

Survey Project from Field to Plotted Sheet

A Virtual Webinar Using Carlson Software – Learn to Complete Survey Projects

This webinar provides a complete walkthrough of creating a survey project in Carlson Software—from importing field data and processing coordinates to producing a finished plotted sheet. It covers best practices for point management, deed entry, alignment, field-to-finish automation, and sheet layout setup.

Key Topics:

- Carlson Survey project setup and configuration
- Importing and managing point data (CRD files, point groups)
- Entering and editing deed descriptions
- Deed correlation and alignment with field data
- Field-to-Finish drawing automation
- Creating legends, north arrows, and title blocks for plotted sheets

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This session was presented by Jennifer DiBona on 01/16/2024.

Making Models from a Mess: Using Carlson Cleanup and Elevate Tools

A Virtual Webinar Using Carlson Software – Learn Carlson cleanup webinar workflows for model building

This webinar, hosted by That CAD Girl's Jennifer DiBona, demonstrates how to transform messy CAD drawings into clean, usable models using Carlson Software's Cleanup and Elevate tools. The session covers practical workflows for cleaning,

organizing, and elevating data for model building and stakeout preparation.

Key Topics:

- Drawing cleanup techniques in Carlson Software
- Managing layers, blocks, and nested entities
- Elevating 2D data to 3D models for takeoff and stakeout
- Using Carlson Civil and Takeoff tools effectively
- Troubleshooting messy or inconsistent CAD data

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This session was presented by Jennifer DiBona on 08/13/2024.

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.

Paper Space, Title Blocks & Templates

A Virtual Webinar Using Carlson and AutoCAD – Learn to Streamline CAD Production

This webinar, hosted by That CAD Girl, provides a comprehensive walkthrough of using paper space, title blocks, and templates in Carlson and AutoCAD. It covers best practices for layout setup, viewport management, scaling, plotting, and sheet set organization to streamline CAD production workflows.

Key Topics:

- Paper space vs. model space fundamentals
- Layout tab setup and page configuration
- Viewports, scaling, and locking techniques
- Managing layers, line types, and rotations
- Using Sheet Set Manager and drawing templates

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This session was presented by Jennifer DiBona on 04/09/2024.

Overview of Carlson Point Clouds

A Virtual Webinar Using Carlson Software – Learn to Process Point Clouds

This Carlson CAD Solutions webinar, led by Doug Oberg, provided a detailed overview of Carlson Point Clouds software, demonstrating how surveyors can use it to process, clean, and extract data from LiDAR and drone-based point clouds. The session covered both basic and advanced modules, including workflows for creating surfaces, extracting features, and integrating with CAD.

Key Topics:

- Introduction to Carlson Point Clouds and workflow integration with CAD
- Importing and managing LiDAR and drone data
- Creating bare earth models and virtual surveys
- Feature extraction tools (curbs, sidewalks, parking lines)
- Field-to-finish and surface modeling techniques

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This session was presented by Doug Aaberg on 10/24/2024.