

# Overview of SurvNet Least Squares with Doug Aaberg of Carlson Software

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

In this Carlson Software webinar, Doug Aaberg demonstrates the enhanced SurvNet Least Squares adjustment tool for Carlson 2020, detailing its updated interface, best practices for survey dataprocessing, and the mathematical principles behind least squares. The session also covers project settings, error handling, integrating GPS/vector data, and practical field-to-office coordination for better survey network accuracy.

### Key Topics:

- Carlson SurvNet 2020 interface updates and workflow improvements
- Least Squares adjustment principles and network redundancy
- Integrating GPS vector data with traditional traverse data
- Error weighting, chi-square testing, and blunder detection
- Practical examples and hands-on training previews

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This session was presented by Doug Aaberg on 10/16/2019.

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# That CAD Girl

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## **Doug's Favorite Things in Carlson Desktop Software – by Doug Aaberg**

### **A Virtual Webinar Using Carlson Software – Explore Doug's Favorite Desktop Tools**

This Carlson Software webinar, led by Doug Aaberg and hosted by That CAD Girl, explores best practices, common pitfalls, and

advanced tools in Carlson Survey and Civil software. The session covers coordinate file management, field-to-finish workflows, point linking, annotation automation, and data integrity techniques for surveyors and engineers.

**Key Topics:**

- Managing coordinate files (CRD) and linking points correctly
- Understanding Carlson's object linking and XData
- Field-to-Finish setup, point groups, and code management
- Real-Z elevation settings and 3D drafting issues
- Deed correlation, auto-annotation, and curb/ramp templates

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This session was presented by Doug Aaberg on 09/11/2018.

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# **Customizing Migrating and Sharing Settings in Carlson Software**

## **A Virtual Webinar Using Carlson Software – Learn to Create Point**

# Symbols

This webinar, hosted by That CAD Girl and presented by Doug Berg, provides an in-depth guide to customizing, migrating, and sharing settings in Carlson Software. It covers configuration management, standardization across teams, and practical use of Carlson's Setting Server for consistent CAD environments.

## Key Topics:

- Managing and standardizing Carlson Software settings
- Using the Carlson Setting Server for multi-user environments
- Migrating settings between versions and platforms (AutoCAD , IntelliCAD)

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*This session was presented by Doug Aaberg on 09/25/2020.*

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# Using Carlson GIS for Base Mapping

## A Virtual Webinar Using Carlson Software – Learn to Manage Site

# Models

This webinar demonstrates how to use Carlson GIS tools for creating survey base maps by integrating publicly available GIS, LiDAR, and imagery data. Doug Aaberg walks through importing shape files, labeling parcels, adding contours, and overlaying aerial imagery to produce accurate, data-rich base plans.

## Key Topics:

- Importing and managing GIS shape files
- Creating and labeling parcel base maps
- Integrating LiDAR, contour, and imagery data

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This session was presented by Doug Aaberg on 05/27/2021.

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# Making the Most of Carlson's LotNet

**A Virtual Webinar Using Carlson Software – Learn to Design Subdivisions**

This webinar, hosted by That CAD Girl and presented by Doug Oberg from Carlson Software, demonstrates practical ways to use Carlson LotNet for efficient lot layout and subdivision design. The session covers both simple and complex land division workflows, emphasizing real-world applications and problem-solving within the software.

**Key Topics:**

- Introduction to Carlson LotNet and setup basics
- Creating and editing lot boundaries and right-of-way lines
- Automating lot subdivision and labeling
- Integrating road networks and cul-de-sacs
- Troubleshooting and real-world design challenges

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*This session was presented by Doug Aaberg on 06/24/2021.*

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# **Best Practices for Network Solutions with Carlson's GNSS RTK Systems**

# A Virtual Webinar Using Carlson Software – Learn to Prepare CAD Files

This webinar, hosted by That CAD Girl and presented by Walt Wiles of Terrain Technology, provides a detailed walkthrough of Carlson Software's drawing cleanup tools for preparing CAD files used in model building and construction staking. The session covers file optimization, layer management, polyline conversion, and best practices for ensuring clean, efficient data transfer to field devices.

## Key Topics:

- Carlson Software drawing cleanup process
- File optimization and size reduction
- Converting and managing polylines, layers, and entities
- Preparing DWG files for machine control and staking
- Handling Civil 3D and architectural files

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*This session was presented by Doug Aaberg on 03/24/2021.*

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# Adv Field to Finish, Tree Surveys, Companion Codes and More

## A Virtual Webinar Using Carlson Software – Learn to Improve Field-to-Finish Workflows

This webinar, hosted by That CAD Girl and presented by Doug Oberg, explores advanced Carlson Field-to-Finish techniques to improve survey drafting efficiency. Topics include companion codes, fixed parameters, templates, and tree survey automation for faster, cleaner CAD workflows.

### Key Topics:

- Carlson Field-to-Finish advanced setup
- Companion codes for connecting linework and symbols
- Fixed parameters and templates for curb and pavement
- Tree survey automation and drip line visualization
- Efficiency improvements and real-world examples

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*This session was presented by Doug Aaberg on 04/22/2021.*

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# The Very Basics of Carlson Field to Finish

## A Virtual Webinar Using Carlson Software – Learn Carlson Basics for Design Workflows

This webinar introduces the fundamentals of Carlson's Field to Finish workflow, led by Doug Oberg and hosted by That CAD Girl. It walks surveyors through setting up code tables, managing linework, and automating drafting tasks to improve efficiency from field data collection to finished CAD drawings.

### Key Topics:

- Introduction to Carlson Field to Finish setup
- Creating and editing code tables
- Managing linework, symbols, and layers
- Using special codes and offsets
- Automating drafting and data processing

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This session was presented by Doug Aaberg on 03/10/2022.

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# Overview of Carlson Point Cloud

## A Virtual Webinar Using Carlson Point Cloud – Learn to Process Point Cloud Data

This webinar provides an in-depth overview of Carlson Point Cloud, demonstrating how to import, clean, and process point cloud data for surveying and CAD integration. Presenter Doug Oberg walks through workflows using drone imagery, Photo Capture, and Carlson's Point Cloud Basic and Advanced modules.

### Key Topics:

- Importing and managing point clouds in Carlson
- Cleaning and processing data (Bare Earth extraction, noise removal)
- Creating surfaces, points, and CAD drawings from point clouds
- Using Photo Capture and GeoTIFF imagery
- Advanced tools for parking lot and color edge extraction

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*This session was presented by Doug Aaberg on 04/28/2022.*

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# Introduction to Carlson Software – Settings Setup Configuration & Points

## A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Manage Points

This introductory Carlson Software webinar, led by Travis Maxwell and hosted by Jennifer DiBona, walks new users through essential setup steps, configuration settings, and point management in Carlson Survey and Civil Suite. The session covers environment setup, coordinate systems, drawing configuration, and best practices for managing data and point files.

### Key Topics:

- Carlson Software environment and toolbar setup
- Drawing and coordinate system configuration
- Project folder management and data paths
- Carlson Configure settings and INI files
- Importing and managing survey points

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This session was presented by Doug Aaberg on 04/08/2022.