

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

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

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

That CAD Girl

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Basics of Road Design in Carlson Civil

A Virtual Webinar Using Carlson Software – Learn to Design Roads

This webinar, hosted by That CAD Girl and presented by Mark Long from Carlson Software, provides a comprehensive introduction to road design using Carlson Civil's Road Network tools. The session covers setup, configuration, template creation, and practical design workflows for roads, intersections, and cul-de-sacs.

Key Topics:

- Introduction to Carlson Civil's Road Network (RoadNet)
- Setting up surfaces, templates, and profiles
- Creating intersections and cul-de-sacs
- Managing cross sections and earthwork quantities
- Tips for efficient road design workflows

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This session was presented by Mark Long on 03/11/2021.

Advanced Road Design in Carlson Civil

A Virtual Webinar Using Carlson Software – Learn to Design Advanced Roads

This webinar, hosted by That CAD Girl and presented by Mark Long from Carlson Software, provides an in-depth demonstration of advanced road design techniques using Carlson Civil. The session covers super elevation setup, template transitions, and template point center lines for complex roadway and drainage design scenarios.

Key Topics:

- Super elevation design and configuration in Carlson Civil
- Template transitions for slope and grading adjustments
- Template point center lines for knuckles, parking, and sidewalks
- Stream impact minimization and slope control
- Integration with hydrology and future webinars

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This session was presented by Mark Long on 04/08/2021.

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.

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.

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.

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.

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

A Virtual Webinar Using Carlson SurvNet – Learn Best Practices for GNSS RTK Networks

This webinar led by Carlson Software's Doug Aaberg covers best

practices for using GNSS and RTK systems in surveying workflows. It focuses on establishing accurate control networks, integrating GPS and EDM data, and performing least-squares adjustments using Carlson SurvNet.

Key Topics:

- GNSS/RTK field procedures and accuracy considerations
- Establishing and verifying control networks
- Using Carlson SurvNet for traverse adjustment and network analysis
- Managing standard errors, redundancy, and blunder detection
- Generating ALTA/NSPS relative positional accuracy (RPA) reports

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This session was presented by Doug Aaberg on 01/27/2022.

Annotation for Surveyors

A Virtual Webinar Using Carlson Software – Learn Survey Annotation

Tools

This webinar, Annotation for Surveyors, presented by Carlson Software's Doug Oberg, provides a detailed walkthrough of annotation tools and best practices in Carlson CAD software. The session covers area labeling, bearings and distances, curve annotation, and automation techniques for efficient survey drafting.

Key Topics:

- Annotation setup and configuration in Carlson Software
- Labeling areas, bearings, distances, and curves
- Using Auto Annotate and Lot Network tools for automation

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This session was presented by Doug Aaberg on 03/24/2022.

All About Coordinates in Carlson Software

A Virtual Webinar Using Carlson

Software – Learn Coordinate System Fundamentals

This webinar, hosted by That CAD Girl and presented by Carlson Software's Doug Oberg, explores the fundamentals of coordinate systems used in surveying and CAD workflows. It covers ellipsoids, geoids, datums, scale factors, and Carlson tools for managing grid-to-ground conversions and projections.

Key Topics:

- Coordinate system fundamentals (ellipsoid, geoid, state plane, grid vs. ground)
- Scale factors and combined scale factor calculations
- Carlson Software tools for coordinate management and projection setup
- Upcoming datum and unit changes (NAD 2022, low-distortion projections, U.S. survey foot retirement)
- Practical applications for surveyors using GPS, RTK, and CAD integration

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This session was presented by Doug Aaberg on 09/08/2022.