

Tips & Tricks in CAD and Carlson Software

Recorded 3/20/2024

A Virtual Webinar Using Carlson Software – Learn to Improve Drafting Workflows

This webinar, hosted by That CAD Girl, provided an in-depth look at practical tips and tricks for using CAD and Carlson Software effectively. Topics included line types, polylines, wipeouts, text masks, symbol libraries, and 3D polyline utilities for improved drafting and design workflows.

Key Topics:

- Creating and customizing line types in CAD and Carlson
- Using wipeouts and text masks for clean annotations
- Managing and importing symbol libraries
- Advanced polyline and 3D modeling techniques
- Offsetting and daylighting with 3D polylines

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

This session was presented by Jennifer DiBona on 03/20/2024.

That CAD Girl

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The Ultimate Drawing Template Recorded 8/8/2024

A Virtual Webinar Using Carlson Software – Learn to Build Drawing Templates

This webinar, led by Travis Maxwell and hosted by That CAD Girl, provides a comprehensive walkthrough of creating, cleaning, and optimizing CAD drawing templates in Carlson Software. It covers best practices for fields, attributes, layers,

fonts, and scaling to ensure consistency and efficiency across projects.

Key Topics:

- Building and maintaining CAD drawing templates
- Using fields and block attributes for automation
- Managing fonts, layers, and line types
- Cleaning drawings with purge commands
- Implementing National CAD Standards

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This session was presented by Travis Maxwell on 08/08/2024.

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.

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 by That CAD Girl covers how to standardize CAD drawings using the National CAD Standard (NCS) within Carlson Software and AutoCAD. It explains best practices for managing layers, linetypes, and dimension styles to ensure consistency across civil and survey projects.

Key Topics:

- National CAD Standard (NCS) layer naming and structure
- Carlson template and layer library management
- Linetype scaling, polyline generation, and plotting behavior
- Dimension style creation and scaling for different drawing types

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This session was presented by Jennifer DiBona on 05/07/2024.

Survey Project from Field to Plotted Sheet

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

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This session was presented by Jennifer DiBona on 05/07/2024.

Standardizing Layers, Linetypes & Dimensions

A Virtual Webinar Using Carlson Software – Learn to Standardize CAD Drawings

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- National CAD Standard (NCS) layer naming and structure
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This session was presented by Jennifer DiBona on 05/07/2024.

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 mode

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- 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.