

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.

That CAD Girl

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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.

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.

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.

2024 Virtual Workshops – Session #4-4 Recorded 12/11/2024

This advanced Carlson Software virtual workshop, led by Mark Long, demonstrates integrated civil and hydrology design workflows using Carlson Hydrology, Sewer Network, and Precision 3D Hydro. Participants learn how to model surfaces, design storm and sanitary systems, and visualize drainage networks in 3D for more efficient, accurate engineering.

Key Topics:

- Precision 3D Hydro and Dynamic CAD integration
- Storm drainage and sewer network design in Carlson Hydrology
- Surface modeling, watershed analysis, and runoff coefficients
- Pipe sizing, hydraulic grade line (HGL) setup, and profile generation
- Utility network creation (water, conduit, laterals)
- Future Carlson Software enhancements (2026 release preview)

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This session was presented by Mark Long on 12/11/2024.

Overview of Carlson Field to Finish

A Virtual Webinar Using Carlson Software – Learn to Automate Field Data Drafting

This webinar provides a comprehensive walkthrough of Carlson Software's *Field to Finish* feature, demonstrating how to automate point processing, symbol insertion, and linework generation from

field data. Attendees learn how to configure FLD files, manage layers, and apply coding standards to streamline survey drafting and surface modeling.

Key Topics:

- Field to Finish fundamentals and FLD file setup
- Layer management and symbol configuration
- Point labeling, attribute layers, and raw vs. full descriptions
- Special codes for linework (BEG, END, PC, PT, etc.)
- Handling default codes, sizes, and descriptive modifiers

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This session was presented by Jennifer DiBona on 02/14/2024.

2024 Virtual Workshops – Session #4-3 Recorded 12/11/2024

In this advanced Carlson Software virtual workshop, Mark Long demonstrates time-saving techniques for civil and hydrology design using Carlson Civil and Hydrology modules. The session focuses on efficient subdivision layout, road network design, templates, super elevation, and grading transitions to enhance productivity and precision in engineering workflows.

Key Topics:

- Lot Network and Subdivision Layout Tools
- Road Network (RoadNet) Design and Settings
- Template Creation and Management
- Super Elevation and Transition Design
- Grading, Slopes, and Stream Impact Minimization

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This session was presented by Mark Long on 12/11/2024.

2024 Virtual Workshops – Session #4-2 Recorded 12/11/2024

This virtual workshop continues the 2024 series on Carlson Software, focusing on surface modeling, pad grading, and 3D polyline workflows. Participants learn practical grading techniques, daylight line creation, and surface triangulation for real-world site design projects.

Key Topics:

- Pad grading and daylight line creation
- 3D polyline utilities and elevation editing
- Building pad and curb grading workflows
- Surface triangulation, contour generation, and volume analysis

- Cut/fill color mapping and contour cleanup

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This session was presented by Jennifer DiBona on 12/11/2024.