

# 2020 Virtual Workshop Session 1-7 Survey Project from Start to Finish with Field to Finish & Surfaces Recorded 12/15/2020

This Carlson Software virtual workshop, led by Jennifer DiBona, walks participants through a complete survey project workflow using Carlson Survey—from importing field data and creating coordinate files to deed entry, field-to-finish processing, surface modeling, and final sheet setup. The session emphasizes practical command usage, data organization, and troubleshooting techniques for real-world survey drafting.

## Key Topics:

- Importing and managing point data (CRD/CRDB files)
- Deed entry, correlation, and processing
- Field-to-Finish setup and drawing automation
- Surface modeling and triangulation
- Annotation, labeling, and sheet preparation
- Integration with Carlson GIS and Google Earth imagery

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

This session was presented by Jennifer DiBona on 12/15/2020.

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# 2020 Virtual Workshop 1-6 Case Study Q&A/Project Overview Using Carlson in Civil & Hydrology Design Recorded 12/15/2020

This virtual workshop session features Carlson Software's Mark Long demonstrating real-world civil engineering workflows using Carlson Civil Suite. The presentation covers subdivision design, grading, stormwater management, and road network modeling with practical tips and live demonstrations.

## Key Topics:

- Carlson Civil Suite workflow for civil engineering projects
- Subdivision and roadway design techniques
- Dirt quantity calculations and balancing
- Super elevation and North Carolina DOT standards
- RoadNet, templates, and intersection management

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This session was presented by Mark Long on 12/15/2020.

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# 2020 Virtual Workshop 1-5 Case Study: Q&A/Project Overview of Using Carlson to Create Machine Control Models Recorded 12/15/2020

This virtual workshop, led by Walt Wiles of Terrain Technology, provides an in-depth walkthrough of building GPS-ready 3D surface models using Carlson Civil and IntelliCAD. The session covers drawing preparation, data cleanup, layer management, and model triangulation for machine control applications.

## Key Topics:

- Carlson Civil and IntelliCAD setup for model building
- Data preparation and drawing cleanup
- Layer management and naming conventions
- Creating and editing 3D polylines and surfaces
- Exporting models for machine control (Topcon, Trimble)

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This session was presented by Walt Liles on 12/15/2020.

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# **2020 Virtual Workshop 1-3 Annotation Tips & Tricks for Land Surveyors Recorded 12/15/2020**

This Carlson Software virtual workshop, led by Jeremy Taylor, demonstrates efficient methods for annotating subdivision plats in Carlson CAD. It covers manual and automated annotation, lot closure verification, line and curve tables, and practical workflow tips for surveyors.

## **Key Topics:**

- Carlson Software annotation tools and defaults
- Auto Annotate and line/curve table automation
- Creating and managing lot files and closure reports
- Area labeling and area tables for small lots
- Troubleshooting annotation issues and CAD cleanup

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This session was presented by Jeremy Taylor on 12/15/2022.

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# **2020 Virtual Workshop 1-2**

# Overview of Carlson Software Recorded 12/15/2020

This Carlson Software virtual training workshop, led by Scott Griffin and hosted by That CAD Girl, provides an in-depth walkthrough of Carlson Survey and Civil tools, focusing on Field-to-Finish workflows, coordinate file utilities, lot and road design, and 3D modeling. The session demonstrates efficient CAD automation, data exchange with data collectors, and integration with Google Earth for visualization.

## Key Topics:

- Field-to-Finish setup and symbol management
- Coordinate file utilities and point management
- Tree and pipe feature coding and reporting
- Legal description writer and dynamic labeling
- Construction stakeout and building offset tools
- LotNet subdivision design and reporting
- RoadNet design with intersections, cul-de-sacs, and hammer heads
- 2D-to-3D conversion and surface modeling
- Exporting and overlaying designs in Google Earth

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This session was presented by Scott Griffin on 12/15/2020.

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# **2020 Virtual Workshop 1-1 – Introduction & Welcome Recorded 12/15/2020**

This session opened the 2020 Carlson Software Virtual Workshop, introducing attendees to the event structure, instructors, and logistics for the three-day training. The presentation covered session navigation, Q&A procedures, certificate details, and special promotions for participants.

## **Key Topics:**

1. Workshop overview and logistics
2. Instructor introductions and session previews
3. Virtual booth and Q&A process
4. Recording access and certification details
5. Discounts, giveaways, and maintenance renewals

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This session was presented by Jennifer DiBona on 12/15/2020.

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# **2021 Virtual Workshops 4-5 Traverse Adjustment & Best**

# Practices for Network Solutions

## Recorded 12/14/21

This session from the 2021 Virtual Workshops series featured Doug from Carlson Software demonstrating advanced survey workflows using Carlson Survey and SurvCE/Carlson CNET. The training covered GPS vector processing, network adjustments, annotative text handling, and subdivision design using LotNet.

### Key Topics:

- GPS and vector data processing in Carlson CNET
- Network adjustment and chi-square testing
- Annotative text and symbol scaling in CAD drawings
- LotNet for subdivision and parcel layout
- Troubleshooting survey data and configuration migration

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This session was presented by Doug Aaberg on 12/14/2021.

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## 2021 Virtual Workshops 4-4

### Traverse Adjustment, Best

# Practices for Network Solutions Carlson GNSS RTK Systems

## Recorded 12/14/21

This virtual workshop session, led by Doug Aaberg and hosted by That CAD Girl, provides a detailed walkthrough of Carlson Survey tools for performing traverse adjustments, compass rule balancing, and least squares network adjustments. The presentation includes practical demonstrations using real survey data, focusing on everyday workflows for field and office surveyors.

### Key Topics:

- Carlson Survey's Edit Process Raw and Traverse Adjustment tools
- Compass Rule and Least Squares (SNET) adjustment methods
- Integrating RTK/GNSS data with EDM traverses
- Managing raw files, control points, and error tolerances
- Practical field and office workflows for survey accuracy

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This session was presented by Doug Aaberg on 12/14/2022.

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# **2021 Virtual Workshops 4-2 Advanced Field to Finish in Carlson Survey cont., Recorded 12/14/2021**

This virtual training session continues the Advanced Field-to-Finish workshop led by Doug, focusing on Carlson Survey tools for automating legends, tree features, and pipe networks. The session demonstrates practical workflows for survey data processing, symbol management, and integration with Carlson Hydrology for plan and profile generation.

## **Key Topics:**

- Field-to-Finish legend creation and symbol management
- Tree feature setup and automation
- Pipe feature and sewer network integration
- Carlson Hydrology module usage for plan/profile drawings
- Code table organization and substitution codes

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This session was presented by Doug Aaberg on 12/14/2022.

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# **2021 Virtual Workshops 4-1**

# Advanced Field to Finish in Carlson Survey Recorded 12/14/2021

This advanced Carlson Software workshop, led by Doug Aaberg, focused on mastering Field to Finish workflows for survey professionals. The session demonstrated efficient coding, linework automation, and advanced features in AutoCAD Survey 2022 to streamline field-to-office data processing.

## Key Topics:

- Field to Finish essentials and advanced coding techniques
- Efficient linework creation, templates, and special codes
- Automating survey drafting with Carlson Software
- Handling 2D/3D linework, offsets, and templates
- Real-world workflow improvements and troubleshooting

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This session was presented by Doug Aaberg on 12/14/2022.