

# 2021 Virtual Workshops 3-3

## Making Models from a Mess

### Recorded 12/09/2021

This 2021 Virtual Workshop session, *Making Models from a Mess*, teaches Carlson Software users how to clean up and prepare messy CAD drawings for accurate surface modeling and grading. The session covers practical workflows for converting 2D linework into 3D data, managing layers, and building balanced, constructible surfaces.

#### Key Topics:

- Converting 2D polylines and contours into 3D surfaces
- Cleaning and organizing CAD layers for modeling
- Grading workflows using Carlson Civil and Takeoff tools
- Handling curb lines, building pads, and daylight projections
- Calculating cut/fill volumes and balancing earthwork

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

This session was presented by Jennifer DiBona on 12/09/2022.

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# 2021 Virtual Workshops 3-2

# Site Grading Project from Start to Finish

## Recording 12/09/2021

This virtual workshop session, led by Jennifer DiBona of That CAD Girl, provides a comprehensive walkthrough of a site grading project using Carlson Civil software. The training covers practical tools and workflows for converting 2D linework into 3D models, managing layers, and building accurate grading surfaces from start to finish.

### Key Topics:

- Elevating 2D to 3D polylines using Carlson Civil tools
- Layer management and PDH credit tracking
- Site grading workflow: building pads, curbs, slopes, and surfaces
- Managing arcs, vertices, and polyline densification
- Creating and refining surface models for design and construction

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This session was presented by Jennifer DiBona on 12/09/2022.

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## 2021 Virtual Workshops 3-1

# Basics of Surface Modeling in Carlson Software

## Recorded 12/09/2021

This session from That CAD Girl's 2021 Virtual Workshops introduces the fundamentals of surface modeling in Carlson Software. Jennifer DiBona demonstrates how to build, verify, and refine surfaces using points, breaklines, and public elevation data sources.

### Key Topics:

- Building and checking surfaces in Carlson Software
- Using shrink-wrap boundaries, 3D viewer, and triangulate & contour tools
- Creating and applying breaklines for accurate terrain models
- Importing and merging public elevation datasets (NED, Google Earth)
- Best practices for contour generation and data exchange (LandXML)

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This session was presented by Jennifer DiBona on 12/09/2022.

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# 2021 Virtual Workshops 2-4

## Basic Introduction to Carlson Field to Finish

### Recorded 12/02/2021

This virtual workshop session provides an in-depth demonstration of Carlson Software's *Field to Finish* feature, showing how to automate point layering, symbol insertion, and linework generation from survey data. The session walks through setup, coding, and customization of FLD files to streamline survey drafting and surface modeling workflows.

#### Key Topics:

- Introduction to Carlson Field to Finish
- Comparison to Land Desktop and Civil 3D description keys
- Setting up and editing FLD code tables
- Layer management and symbol control
- Handling descriptive codes and special characters
- Q&A on tree surveys, point groups, and symbol scaling

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This session was presented by Jennifer DiBona on 12/02/2022.

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# **2021 Virtual Workshops 2-3 Survey Project from Start to Finish Recorded 12/02/2021**

This session from the 2021 Virtual Workshops walks participants through a complete Carlson Survey project from importing field data and creating boundaries to building surfaces and generating deliverables. Jennifer DiBona demonstrates practical workflows, data management techniques, and visualization tools to streamline survey drafting and analysis.

## **Key Topics:**

- Importing and managing survey point data
- Creating boundaries and deed descriptions
- Using point groups, field-to-finish, and surface modeling
- Deed correlation and alignment tools
- Annotation, legends, and final sheet preparation

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This session was presented by Jennifer DiBona on 12/02/2022.

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# **2021 Virtual Workshops 2-2**

# **Intro to Carlson Software Recorded 12/02/2021.**

This virtual workshop session introduces participants to Carlson Software, covering setup, configuration, and point management within IntelliCAD. It explains default settings, project folder organization, templates, and best practices for integrating Carlson with AutoCAD and Civil 3D workflows.

## **Key Topics:**

- Carlson Software interface and module overview
- Default configuration and project/data folder setup
- Managing settings, templates, and builds
- Working with points, surfaces, and coordinate files
- Importing Civil 3D data and LandXML files

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This session was presented by Jennifer DiBona on 12/02/2022.

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## **2021 Virtual Workshops 2-1 Very Basic Introduction to CAD for Carlson Users**

# Recorded 12/02/2021

This introductory virtual workshop session teaches new Carlson S software users the fundamentals of CAD using IntelliCAD or AutoCAD as the base platform. Participants learn interface navigation, drafting tools, command-line usage, and essential configuration settings to prepare for later Carlson-specific training.

## Key Topics:

- Understanding the CAD platform beneath Carlson Software
- User interface customization (menus, ribbons, toolbars, command line)
- Drawing basics: lines, coordinates, zoom/pan, ortho, and object snaps
- File management, options, and drafting settings
- Differences between IntelliCAD and AutoCAD behavior

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This session was presented by Jennifer DiBona on 12/01/2022.

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## 2021 Virtual Workshops 1-6 Tips & Tricks in Carlson Software and Wrap Up

# Recorded 12/01/2021

This 2021 Virtual CAD Workshop session, led by Jennifer DiBona of That CAD Girl, focuses on practical CAD fundamentals including line types, line weights, and dimension styles in AutoCAD and Carlson Software. The session provides detailed demonstrations, explanations of key settings, and best practices for achieving consistent, professional-quality drawings.

## Key Topics:

- Understanding and controlling line type display (LTscale, PLineGen, PSLTscale)
- Creating and editing custom line types with text
- Managing line weights and CTB plot styles
- Setting up and scaling dimension styles effectively

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This session was presented by Jennifer DiBona on 12/01/2021.

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## 2021 Virtual Workshops 1-5 Tips & Tricks in Carlson Survey

# Recorded 12/01/2021

This Carlson Software virtual workshop, led by Doug Aaberg, provided advanced tips and tricks for Carlson Survey users, focusing on configuration management, field-to-finish workflows, and CAD efficiency tools. The session covered settings migration, annotation management, field text automation, grid-to-ground scaling, and practical drafting shortcuts for survey professionals.

## Key Topics:

- Carlson Settings Server and configuration management
- Field-to-Finish setup and standardization
- Annotative text, field text, and title block automation
- Grid-to-ground and rotation angle tools
- Drafting productivity commands and bug discussions

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This session was presented by Doug Aaberg on 12/01/2021.

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## 2021 Virtual Workshops 1-4 Tips & Tricks in Carlson Civil & Hydrology

# Recorded 12/01/2021

This virtual workshop session, led by Mark Long from Carlson Software, explores advanced design workflows in Carlson Civil, focusing on RoadNet, hydrology, and utility network tools. Attendees learned practical tips for roadway design, intersection grading, sewer and stormwater modeling, and creating custom structures for efficient civil engineering design.

## Key Topics:

- RoadNet advanced features and intersection control
- Grading, pad elevation, and contour management
- Sewer and storm drainage network design
- Utility network setup and waterline crossings
- Custom structure and inlet creation

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This session was presented by Mark Long on 12/01/2021.