

# Fast Track with Carlson Civil Suite and CADnet – Session #2-3

**Recorded 05/25/2023**

This training webinar provides a practical walkthrough of Carlson Civil Suite's Hydrology and CADnet modules, focusing on drafting storm-sewer networks, creating profiles, and converting or digitizing PDF and raster data into CAD. Participants learn how to manage surfaces, pipe networks, and image-to-CAD workflows for design and takeoff applications.

## **Key Topics:**

- Carlson Hydrology: storm-sewer network drafting and setup
- Sewer network profiles, surfaces, and pipe settings
- Carlson CADnet: converting PDFs and raster images to CAD
- Digitizing and scaling images for takeoff and modeling

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

This session was presented by Jennifer DiBona on 05/25/2023.

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## **Fast Track to Carlson Civil**

# Suite and CADnet – Session #2-2

## Recorded 5/25/2023

This training session continues the *Fast Track to Carlson Civil Suite* series, focusing on creating and managing centerlines, profiles, and road networks using Carlson Civil and CADnet. Participants learn how to manually build alignments, profiles, and templates before automating workflows with Carlson's Road Network tools.

### Key Topics:

- Creating and managing centerlines and profiles
- Using Carlson configuration and project folder structures
- Building and editing road templates and networks
- Generating surfaces, cross sections, and earthwork volumes

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This session was presented by Jennifer DiBona on 05/25/2023.

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# Fast Track to Carlson Civil Suite and CADnet – Session #2-1

# Recorded 5/25/23

This training session provides an in-depth walkthrough of Carlson Civil Suite and CADnet tools, focusing on site grading, surface modeling, and the SiteNet module for quantity takeoff and surface management. Participants learned how to model proposed grading, manage surfaces, calculate volumes, and create subgrade and topsoil reports using Carlson Civil's advanced features.

## Key Topics:

- Site grading and 3D polyline modeling
- Surface creation and volume calculations
- Carlson Civil vs. Carlson Survey functionality
- SiteNet setup, layer management, and material quantity reporting
- Topsoil removal and replacement workflows

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This session was presented by Jennifer DiBona on 05/25/2023.

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## Fast Track to Carlson Civil Suite and CADnet – Session #1-3

# Recorded 5/23/23

This recorded training session from *That CAD Girl* provides a detailed walkthrough of surface modeling, annotation, and 3D data workflows in Carlson Civil Suite and CADnet. It covers best practices for building surfaces, checking elevation data, applying field-to-

finish codes, and using 3D tools for grading and modeling efficiency.

## Key Topics:

- Building and validating surfaces from points and breaklines
- Using 3D Viewer and Shrink Wrap Entities for surface checks
- Field-to-Finish setup and non-surface point management
- Contour creation, labeling, and annotation techniques
- 3D data tools: elevating polylines, pad creation, and slope-based point generation

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This session was presented by Jennifer DiBona on 05/23/2023.

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## Fast Track to Carlson Civil Suite and CADnet – Session

# #1-2

## Recorded 05/23/2023

This training session provides an in-depth walkthrough of Carlson Civil Suite's CADnet, Survey, and Civil modules, focusing on area layout, lot creation, labeling, deed file processing, and field-to-finish automation. The instructor demonstrates practical workflows for linking external data, managing lot networks, and generating legal descriptions efficiently.

### Key Topics:

- Area layout and labeling techniques
- Lot file and deed file creation and management
- LotNet design automation and editing
- Legal description writer and reporting
- Field-to-Finish point processing and layer management

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This session was presented by Jennifer DiBona on 05/23/2023.

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# Fast Track to Carlson Civil

# Suite and CADnet – Session #1-1

## Recorded 5/23/2023

This training session introduced participants to the Carlson Civil Suite and CADnet software, focusing on setup, configuration, and foundational workflows in Carlson Survey, Civil, Hydrology, GIS, and CADnet. The instructor demonstrated key menus, data management practices, and GIS integration techniques for efficient civil engineering and surveying workflows.

### Key Topics:

- Overview of Carlson Civil Suite modules and environment setup
- Managing templates, layers, and project data folders
- Carlson Configure settings and defaults
- GIS data import, editing, and visualization
- Integration with Google Earth and Esri imagery

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This session was presented by Jennifer DiBona on 05/23/2023.

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## Advanced Road Network

# A Virtual Webinar Using Carlson RoadNet – Learn Advanced Road Network Design

This webinar, hosted by That CAD Girl and presented by Travis, provides an in-depth look into advanced features of Carlson RoadNet. It covers dynamic road network setup, template configuration, curb ramps, cul-de-sacs, lot grading, and troubleshooting techniques for civil design professionals.

## Key Topics:

- Dynamic Carlson RoadNet setup and configuration
- Advanced template creation and transitions
- Curb ramps, cul-de-sacs, and hammerhead intersections
- Lot grading and building pad elevation
- Troubleshooting and optimization best practices

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*This session was presented by Travis Maxwell on 05/11/2023.*

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**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.

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# 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.

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# 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.*