Fast Track to Carlson Civil Suite & CADnet: Session #2-2

A Virtual Classroom Using Carlson Civil Suite and CADnet – Create Centerlines, Profiles and RoadNet Designs

This training session from *That CAD Girl's Fast Track Carlson Civil Suite & CADnet* series covers creating and editing centerlines, profiles and road networks using Carlson Civil and Survey. It demonstrates manual and automated design workflows, including RoadNet, profile editing and template building for roadway design.

Key Topics:

- Centerline and profile creation in Carlson Survey and Civil
- Manual vs. RoadNet-based design workflows
- Profile editing, labeling and linking data files
- Road network setup, templates and intersections
- Troubleshooting and known issues in 2023–2024 builds

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This session was presented by Jennifer DiBona on 03/14/2024.

Fast Track to Carlson Civil Suite & CADnet: Session #2-1

A Virtual Classroom Using Carlson Civil Suite and CADnet – Design Lots and Review Site Grading

This training session provides an in-depth walkthrough of Carlson Civil Suite's LotNet, grading and 3D design tools, guiding users through lot subdivision, surface modeling and site grading workflows. It demonstrates how to transition from 2D drafting to 3D design using Carlson Civil's powerful automation and data management features.

Key Topics:

- Carlson LotNet design and configuration
- Transitioning from 2D to 3D design workflows
- Site grading, surface modeling and volume calculations
- Integration of Survey, Civil, GIS, Hydrology and CADnet modules

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This session was presented by Jennifer DiBona on 03/14/2024.

Fast Track to Carlson Civil Suite & CADnet: Session #1-3

A Virtual Classroom Using Carlson Civil Suite and CADnet – Automate Field-to-Finish and Site Grading

This session of the Fast Track Carlson Civil Suite & CADnet training focused on advanced survey and drafting workflows in Carlson Survey and Civil, including Field-to-Finish automation, surface modeling, labeling and subdivision lot management. Participants learned how to streamline data processing from field collection through surface creation and annotation for professional deliverables.

Key Topics:

- Field-to-Finish (FLD) setup and usage
- Surface modeling and non-surface point management
- Annotation, labeling and line/curve tables
- Lot file and deed file creation and management
- Carlson Survey text and layout utilities

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This session was presented by Jennifer DiBona on 03/12/2024.

Fast Track to Carlson Civil Suite & CADnet: Session #1-2

A Virtual Classroom Using Carlson Software – Build Survey Surfaces from GIS and Field Data

Explore Carlson Software GIS and survey workflows in this virtual classroom, from labeling shapefile features and bringing georeferenced imagery into CAD to exporting KML/KMZ files for Google Earth. The instructor also demonstrates importing survey points, correcting deed descriptions, excluding unsuitable elevations and improving TIN contours with 3D breaklines in Carlson Survey and Civil.

Key Topics:

- GIS labels, Google Earth imagery, WMS and Esri background maps
- CRD point import, point groups, deed entry and legal descriptions
- Surface validation, non-surface points, shrink wrap and TIN contours
- Drawing and applying 3D breaklines for accurate ditch

modeling

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This session was presented by Jennifer DiBona on 03/12/2024.

Fast Track to Carlson Civil Suite & CADnet: Session #1-1

A Virtual Classroom Using Carlson Civil Suite and CADnet – Configure Defaults and Start GIS Workflows

This introductory Fast Track training session guides users through the fundamentals of Carlson Civil Suite 2024 and CADnet, including software setup, configuration, interface navigation and GIS data handling. Participants learn best practices for managing projects, defaults and data files while exploring key differences between Carlson versions 2023 and 2024.

Key Topics:

- Carlson Civil Suite overview and module structure
- Interface setup, menus, ribbons and configuration defaults
- Project folder organization and data management
- GIS import workflows and known 2024 issues

- File associations, linking and coordinate system setup

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This session was presented by Jennifer DiBona on 03/12/2024.

MicroSurvey STARNET Least Squares Analysis

A Virtual Webinar Using MicroSurvey STAR*NET – Learn to Perform Least Squares Analysis

This webinar, hosted by That CAD Girl and presented by MicroSurvey's James Johnston, provides a comprehensive walkthrough of STAR*NET analysis – a leading least squares adjustment software for survey data. The session covers data import, adjustment workflows, error detection and integration of GPS and conventional survey data for accurate network analysis.

Key Topics:

- Overview of MicroSurvey's product suite
- Introduction to STAR*NET least squares adjustment
- Data import and conversion workflows
- Error detection, residual analysis and Chi-square testing

- Integration of GPS and conventional survey data
- Output options and reporting tools

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This session was presented by James Johnston on 04/15/2025.

Construction Workflows Drawing Cleanup and Point Population Tools

A Virtual Webinar Using MicroSurvey – Learn to Streamline Construction Workflows

This webinar, hosted by That CAD Girl and presented by MicroSurvey Software's James Johnston, explored efficient construction workflows using MicroSurvey CAD tools. The session demonstrated drawing cleanup, point population and export techniques to streamline field layout and stakeout processes.

Key Topics:

- Drawing cleanup tools in MicroSurvey CAD
- Rescale wizards
- Point population tools
- Point management

- Exporting CAD and point data for field stakeout

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This session was presented by James Johnston on 06/19/2025.

MicroSurvey AutoMap Field to Finish

A Virtual Webinar Using MicroSurvey – Learn to Automate Survey Data Processing

This webinar, hosted by That CAD Girl and presented by MicroSurvey's James Johnston, provides an in-depth walkthrough of AutoMap—MicroSurvey's field-to-finish system. It demonstrates how AutoMap automates CAD standards, linework generation and symbol management to streamline survey data processing from field collection to final drawings.

Key Topics:

- Overview of MicroSurvey's product portfolio and CAD integrations
- AutoMap setup and configuration for field-to-finish workflows
- Field data import methods (FieldGenius, Captivate, ASCII, etc.)

- Customizing symbols, layers and plotted descriptions
- Managing 2D/3D linework and smart line connectivity

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This session was presented by James Johnston on 05/27/2025.

Making Models from a Mess – Using Carlson Cleanup and Elevate Tools

A Virtual Webinar Using Carlson Software – Learn to Clean Up Messy Drawings and Elevate Them into Models

This webinar teaches Carlson Civil users how to transform messy, imported CAD drawings into clean, usable models for staking and surface creation, with their cleanup tools. It covers practical workflows using Carlson's Drawing Cleanup and Elevate Tools to fix geometry, layers and elevations for accurate 3D modeling.

Key Topics:

- Cleaning and organizing messy DWG files
- Using Carlson Drawing Cleanup effectively

- Elevating 2D polylines to 3D for surface models
- Managing layers, blocks and spot elevations
- Avoiding common pitfalls and data corruption

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This session was presented by Jennifer DiBona on 01/28/2025.

Fast Track to Carlson Survey: Session #2-3

A Virtual Classroom Using Carlson Survey – Build Lots, Surfaces and Profiles

This final Fast Track to Carlson Survey session provided a detailed walkthrough of Carlson Survey's Lot Network, Surface Modeling and Profile tools. Participants learned how to subdivide land, build and refine surfaces, manage breaklines and create road and utility profiles using Carlson's survey and civil features.

Key Topics:

- Carlson Lot Network setup and editing
- Surface creation, validation and breakline management
- Field-to-Finish workflows and shrink-wrap entities
- Contour generation, labeling and line-type settings

- Importing and merging Google Earth surfaces
- Profile creation for roads, sewers and pipe crossings

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This session was presented by Jennifer DiBona on 05/16/2024.