Web Feature Services with Carlson GIS

A Virtual Webinar Using Carlson GIS – Learn Web Feature Services

This webinar, hosted by That CAD Girl and presented by Travis, provides a detailed walkthrough of using web feature services (WFS) and web map services (WMS) within Carlson GIS. It demonstrates how to access, import and manage GIS data layers such as FEMA flood maps, USGS topo maps, wetlands and soils data to create accurate base maps for civil and survey projects.

Key Topics:

- Accessing and importing web feature and map services in Carlson GIS
- Integrating USGS, FEMA, wetlands and soils data layers
- Setting coordinate projections and verifying grid alignment
- Using shape files and QGIS for supplemental GIS workflows
- Creating tool palettes for efficient project setup

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

This session was presented by Travis Maxwell on 05/24/2023.

Working With Sheet Sets

A Virtual Webinar Using IntelliCAD – Learn Sheet Set Automation

This webinar, presented by Travis Maxwell and hosted by That CAD Girl, provides a comprehensive walkthrough of using sheet sets in IntelliCAD. It covers creating a sheet set from existing drawings, sheet numbering and titles with fields and managing project data across drawings with tables, custom drawing properties and a LISP routine to streamline large CAD projects.

Key Topics:

- Creating a sheet set from existing drawings and layouts
- Ordering, numbering and naming sheets
- Sheet set fields for sheet titles and numbers in title blocks
- Managing project data with tables, custom drawing properties and a LISP routine
- Keeping detail sheets and design drawings in separate files
- Publishing multi-sheet PDFs

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This session was presented by Travis Maxwell on 10/27/2023.

In-Depth Carlson Takeoff: Session #2-2

A Virtual Classroom Using Carlson Takeoff – Define Materials for Takeoff Quantity Reports

This in-depth Carlson Takeoff training session guides users through advanced layer management, surface modeling and material quantity calculations. The webinar demonstrates how to clean CAD files, assign layers, build surfaces and calculate cut/fill volumes and topsoil adjustments for accurate takeoff reporting.

Key Topics:

- Carlson Takeoff layer-based workflow and TRG file management
- Cleaning and organizing CAD layers for modeling
- Building existing and design surfaces
- Subgrade and topsoil removal/replacement calculations
- Exporting LandXML and TIN files for machine control

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This session was presented by Jennifer DiBona on 01/26/2023.

In-Depth Carlson Takeoff: Session #2-1

A Virtual Classroom Using Carlson Takeoff – Digitize Spot Elevations and Elevate Polylines

This session continues the In-Depth Carlson Takeoff training, focusing on building accurate 3D surface models from 2D plans, digitizing spot elevations and preparing data for quantity takeoffs. Participants learned best practices for managing layers, creating polylines and converting spot elevation labels into Carlson points for modeling and analysis.

Key Topics:

- Setting up and managing project drawings for takeoff
- Digitizing and labeling spot elevations
- Creating and elevating 2D/3D polylines
- Converting labels to Carlson points
- Modeling surfaces for cut/fill and quantity calculations
- Layer management and symbols for inlets, curb stops and ot her site features

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This session was presented by Jennifer DiBona on 01/26/2023.

In-Depth Carlson Takeoff: Session #1-3

A Virtual Classroom: Elevate 2D Polylines to 3D in Carlson Takeoff

This final session of the first day continues the In-Depth Carlson Takeoff training, showing how to elevate 2D polylines to 3D in Carlson Civil by interior text, by text with leader and by points. It covers building pads, back of curb and top of curb lines, contours with a beginning elevation and increment and a step-down building pad with the ground outside it, then takes a first look at setting retaining wall top and bottom elevations.

Key Topics:

- Carlson 3D Data menu tools for elevating 2D features to 3D
- Carlson Pad Polyline by Interior Text for building pads
- Carlson 2D to 3D polylines by text with leader and by points for curb lines
- Carlson contour elevation by beginning elevation and increment
- Carlson retaining wall top and bottom elevations

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This session was presented by Jennifer DiBona on 01/25/2023.

In-Depth Carlson Takeoff: Session #1-2

A Virtual Classroom Using Carlson Takeoff – Digitize Plans for Takeoff Surfaces

This session is the second part of an in-depth Carlson Takeoff training, demonstrating how to import, scale and digitize PDF grading plans to prepare existing and proposed surfaces for quantity takeoff. The instructor walks through practical CADNet and Takeoff workflows, emphasizing control setup, layer management and contour digitization.

Key Topics:

- Importing and scaling PDF grading plans
- Setting control points and layers in Carlson CADNet
- Digitizing existing and proposed contours
- Using Scale Wizard, Raster cleanup and Digitize tools
- Preparing data for surface modeling and takeoff

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This session was presented by Jennifer DiBona on 01/25/2023.

In-Depth Carlson Takeoff: Session #1-1

A Virtual Classroom Using Carlson Takeoff – Prepare PDFs for Carlson Takeoff Workflows

This session is part of a two-day in-depth virtual workshop on Carlson Takeoff, led by That CAD Girl. The training introduces participants to the differences between Carlson Takeoff OEM and the IntelliCAD-based Takeoff Suite, covering setup, importing PDFs, merging images and preparing data for takeoff and modeling.

Key Topics:

- Overview of Carlson Takeoff OEM vs. IntelliCAD Takeoff Suite
- Using CADnet, Construction, Civil, Trench and Geotech modules
- Importing and merging PDFs and raster images
- Converting raster/vector data and digitizing for takeoff
- Preparing 2D and 3D features for quantity takeoff and modeling

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This session was presented by Jennifer DiBona on 01/25/2023.

Stormwater Channel Design in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Design Stormwater Channels

This webinar, hosted by That CAD Girl and presented by Travis, provides a detailed walkthrough of stormwater channel design using Carlson Software. It covers hydraulic principles, channel stability analysis and practical workflows for grading and modeling swales within Carlson Civil and Hydrology modules.

Key Topics:

- Fundamentals of open channel hydraulics and design equations
- Using Carlson Software tools for channel and liner design
- Practical workflow for grading swales and calculating flow parameters
- Shear stress, velocity and lining stability analysis
- Integration of hydrology tools for watershed and flow calculations

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

This session was presented by Travis Maxwell on 10/25/2023.

Using Carlson for ADA Accessible Design: Session #1-2

A Virtual Classroom Using Carlson Civil – Grade ADA Parking, Ramps and Accessible Routes

This webinar continues the “Using Carlson to Design for ADA Accessibility” series, demonstrating practical methods for grading, parking layout and ADA-compliant site design using Carlson Civil Suite. Travis provides live examples of slope control, curb ramp modeling and surface creation to meet ADA standards efficiently.

Key Topics:

- ADA parking and slope requirements
- Carlson Civil Suite tools for grading and surface modeling
- Creating accessible routes, ramps and curb transitions
- Troubleshooting triangulated surfaces and contour issues
- Using RoadNet and SiteNet for curb and ramp automation

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

This session was presented by Travis Maxwell on 04/21/2023.

Using Carlson for ADA Accessible Design: Session #1-1

A Virtual Classroom Using Carlson Civil – Learn ADA Design for Curb Ramps and Accessible Routes

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, provides a detailed walkthrough of designing ADA-compliant site features using Carlson Civil and IntelliCAD. The session covers accessible parking, curb ramps, grading techniques and practical tools for ensuring compliance with ADA and Fair Housing Act standards.

Key Topics:

- ADA and Fair Housing Act accessibility design standards
- Carlson Civil tools for curb ramps, parking and grading
- Curb ramp placement with RoadNet, including tapers on grade
- Parking lot layout and accessible parking spaces
- Dynamic modeling and slope analysis for ADA compliance

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This session was presented by Travis Maxwell on 04/21/2023.