

# 2023 Virtual Workshop – Session #3-2 Recorded 11/29/23

This 2023 Carlson Software virtual workshop, led by Scott Griffin, provides an in-depth demonstration of new and enhanced features in Carlson 2024. The session covers Lot Network, Road Network, Sheet Production, Profile Capture, and Parking Network tools, showcasing practical workflows for surveyors, engineers, and CAD designers.

## Key Topics:

- Lot Network setup and dynamic lot editing
- Road Network design and intersection handling
- Sheet production and profile management
- New Profile Capture command
- Parking Network and 3D design tools

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

This session was presented by Scott Griffin on 11/29/2023.

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# 2023 Virtual Workshops –

# Session #3-1

## Recorded 11/29/2023

This virtual workshop, led by Scott Griffin and hosted by Jennifer, provided an in-depth overview of Carlson Software's 2024 updates and practical demonstrations of key CAD and surveying tools. Topics included drawing cleanup, Google Earth integration, PDF import, BIM handling, field-to-finish workflows, and point cloud processing.

### Key Topics:

- Drawing cleanup and data preparation
- Google Earth and GIS imagery integration
- PDF import and vectorization using CADnet
- BIM and IFC/Revit file handling
- Field-to-Finish enhancements for trees, pipes, and labeling
- Point cloud processing and AI-based feature extraction

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This session was presented by Scott Griffin on 11/29/2023.

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## 2023 Virtual Workshops Point Clouds, P3D, CPC, etc,

# Recorded 10/11/23

This internal Carlson Software virtual workshop focused on the Carlson Photo Capture (CPC) and Point Clouds 3D modules, comparing standalone versus cloud processing, hardware requirements, and workflows for drone data. The session also covered product positioning, AI-based feature extraction, and internal coordination on hydrology and engineering modules.

## Key Topics:

- Carlson Photo Capture standalone vs. web-based tiers
- Hardware specs and performance considerations
- Point Cloud Advanced features and AI extraction tools
- Drone data processing workflow (images, GCPs, LAS export)
- Internal engineering and personnel updates

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This session was presented by Scott Griffin and Jennifer DiBona on 10/11/2023.

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# In-Depth Carlson Takeoff – Session 2-3

## Recorded 01/26/2023

This advanced Carlson Takeoff training session walks participants through elevating 2D polylines to 3D, creating grading surfaces, and performing material quantity takeoffs. The

instructor demonstrates step-by-step workflows for building pads, sidewalks, curbs, and balancing cut/fill volumes within Carlson Construction Suite.

**Key Topics:**

- Elevating 2D to 3D polylines using text, points, and leaders
- Building pad and sidewalk grading workflows
- Managing layers, offsets, and contour cleanup
- Quantity takeoff setup and material reporting
- Balancing cut/fill and generating subgrade surfaces
- Troubleshooting and workflow optimization

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

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# **In-Depth Carlson Takeoff – Session 2-2 Recorded 01/26/202**

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.

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# **In-Depth Carlson Takeoff – Session 2-1 Recorded 01/26/2023**

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 naming conventions
- Using symbols for inlets, curb stops, and other site features

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

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# **In-Depth Carlson Takeoff – Session 1-3 Recorded 01/25/2023**

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.

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# **In-Depth Carlson Takeoff – Session #1-2 Recorded 1/25/23**

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.

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# In-Depth Carlson Takeoff – Session #1-1 Recorded 01/25/23

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.

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

## Recorded 4/21/2023

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

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