

# **2016 Virtual Classroom – Survey & GIS Virtual Workshop – Bonus Lunch Session 3 Recorded 05/17/2016**

This session of the Survey and GIS Virtual Workshop features a demonstration of Carlson Software's Precision 3D Topo, led by Nathan Cruise. The presentation showcases surface editing, visualization, field-to-finish workflows, and 3D modeling capabilities for survey and design professionals.

## **Key Topics:**

- Precision 3D Topo features and workflows
- Surface editing and visualization tools
- Field-to-finish automation and 3D modeling
- Importing and managing survey data
- Auto texturing and presentation tools

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

This session was presented by Nathan Crews on 05/17/2016.

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# **2016 Virtual Classroom –**

# **Survey & GIS Virtual Workshop – Session 2 Recorded 05/17/2016**

This Carlson Survey training session, led by Jeremy Taylor and hosted by That CAD Girl, provides a detailed walkthrough of traverse adjustment workflows using Carlson Survey's raw data editor and processing tools. The session also covers creating cut sheets for construction staking and introduces least squares adjustments and SurvNet integration.

## **Key Topics:**

- Traverse adjustment and raw data processing in Carlson Survey
- Angle balancing, compass and least squares adjustments
- Cut sheet creation for construction staking
- Integration with SurvCE and SurvNet

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This session was presented by Jeremy Taylor on 05/17/2016.

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## **2016 Virtual Classroom – Survey & GIS Virtual Workshop**

# – Session 1

## Recorded 05/17/2016

This session from That CAD Girl's 2016 Virtual Workshop introduces practical tips and workflows for survey and GIS users in Carlson Software. It covers deed entry, control point search, georeferencing, Google Earth and Esri map integration, and creating GIS databases directly within Carlson.

### Key Topics:

- Entering and correcting deed descriptions in Carlson Survey
- Using "Search Published Control" for NGS monuments
- Georeferencing drawings and importing imagery from Google Earth or Esri ArcGIS
- Integrating GIS data with SurvCE/SurvPC for field collection
- Building a GIS database and performing attribute queries in Carlson GIS

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This session was presented by Jennifer DiBona on 05/17/2016.

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# 2020 Virtual Workshop 3-6 Hot

# **New Features in Carlson 2021 Recorded 12/17/2020.**

This virtual workshop session showcased new and enhanced features in Carlson 2021 software, focusing on Survey, Civil, and CADNet modules. Presenter Scott Griffin demonstrated dynamic point attributes, BIM/Revit file integration, road network improvements, and advanced parking design tools for surveyors and engineers.

## **Key Topics:**

- Dynamic Point Attributes in Survey module
- BIM/Revit file import and manipulation in CADNet
- Road Network enhancements including hammerhead cul-de-sacs
- New Parking Network and design tools
- Handicap and layout customization features

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This session was presented by Scott Griffin on 12/17/2020.

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## **2020 Virtual Workshop 3-8 Utility Network Design in Carlson Hydrology**

# Recorded 12/17/2020.

This virtual Carlson Software workshop, led by Mark Long, provided an in-depth demonstration of detention pond design, hydrology analysis, and utility network creation within Carlson Civil and Hydrology. The session covered practical workflows, design parameters, and troubleshooting tips for stormwater management and utility modeling.

## Key Topics:

- Detention pond design and hydrology setup
- Rainfall data integration and hydrograph generation
- Outlet structure configuration (riser, orifice, weir)
- Utility network creation and pipe crossing management
- Troubleshooting and Q&A with developers

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This session was presented by Mark Long on 12/17/2020.

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# Tips & Tricks to Recover Corrupt Drawings Recorded 2/9/2021

This webinar by That CAD Girl provides practical guidance on recovering and repairing corrupt DWG files using AutoCAD, IntelliCAD, and Carlson Software tools. It covers essential commands, tro

troubleshooting workflows, and Autodesk utilities to restore damaged drawings efficiently.

### **Key Topics:**

- Using PURGE, AUDIT, and WBLOCK commands to clean drawings
- Recovering inaccessible DWG files with RECOVER and RECOVER ALL
- Leveraging DWG TrueView and DWG Convert for file repair and version conversion
- Handling Civil 3D files and registered applications
- Managing layouts and Xrefs during recovery

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*This session was presented by Jennifer DiBona on 02/09/2021.*

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## **2020 Virtual Workshops Session 3-7 Sanitary Sewer Design in Carlson Hydrology Recorded 12/17/2020.**

This Carlson Software virtual workshop, led by hydrology expert Mark Long, provides an in-depth walkthrough of storm and sanitary sewer design using Carl

on Hydrology tools. The session covers watershed setup, pipe network creation, stormwater management, and integration with CAD surfaces for accurate drainage modeling.

**Key Topics:**

- Setting up watershed layers and runoff coefficients
- Designing storm sewer networks and detention ponds
- Creating and editing sanitary sewer systems
- Using Carlson Hydrology's network, drainage, and profile tools
- Managing surfaces, rainfall data, and hydraulic grade lines

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This session was presented by Mark Long on 12/17/2020.

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# **2020 Virtual Workshops Session 3-5 Tips & Tricks in CAD & Carlson Software Recorded 12/17/2020.**

This virtual workshop, led by That CAD Girl, covers practical CAD and Carlson Software tips and tricks for surveyors, engineers, and CAD technicians. The session demonstrates workflows for merging raster images, using Field to Finish, managing polylines, cleaning drawings, and creating reusable title block templates.

## Key Topics:

- CADNet raster merging and image handling
- Field to Finish setup and automation
- Polyline editing and boundary creation
- Drawing cleanup and block management
- Title block templates and layout management
- Converting spot elevations to Carlson points
- Line type customization and text rotation

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This session was presented by Jennifer DiBona on 12/17/2020.

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# **2020 Virtual Workshops Session 3-4 Steve Cummings showing Carlson Point Cloud in our Virtual Booth, Recorded 12/17/2020**

This bonus session from the 2020 Virtual Workshops focuses on Carlson Point Cloud software, demonstrating how to import, clean, and process point cloud data to create usable terrain models. Steve Cummings and David Kraus walk through workflows, performance considerations, and practical tips for handling large LIDAR datasets in Carlson Civil.

## **Key Topics:**

- Importing and visualizing point clouds in Carlson Point Cloud
- Differences between Basic and Advanced versions
- Creating bare earth models and TIN surfaces
- Managing large datasets and optimizing performance
- Workflow for civil site studies using LIDAR and aerial data

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This session was presented by Jennifer DiBona on 12/17/2020.

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# **2020 Virtual Workshops Session 3-3 Drawing Cleanup for Model Building and Construction Staking, Recorded 12/17/2020.**

This Carlson Software virtual workshop features Walt Liles demonstrating best practices for CAD drawing cleanup and model building using Carlson Software. The session covers file-size reduction, polyline management, layer organization, and exporting coordinate data for field layout.

## **Key Topics:**

- Carlson Software “Drawing Cleanup” tool and settings
- File-size optimization and layer management

- Converting entities to polylines and handling Civil 3D data
- Creating and exporting points (CRD files, TXT exports)
- Preparing 2D/3D linework for GPS and curb-machine models

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This session was presented by Walt Liles on 12/17/2020.