

# 2020 Virtual Workshop 2-7 Autodesk Licensing Changes: Plan for the Future/How it Will Affect Carlson Users Recorded 12/16/20

This virtual workshop session, led by Bruce Carlson, provides an in-depth demonstration of Carlson Precision 3D Hydrology (P3D Hydro) and its integration with Carlson CAD modules. The training covers intelligent TIN modeling, storm sewer and culvert design, hydrology analysis, and dynamic CAD synchronization for civil engineering workflows.

## Key Topics:

- Intelligent TIN surfaces and runoff coefficient mapping
- Integration between Carlson Hydrology and Precision 3D Hydro
- Storm sewer and culvert design automation
- Dynamic CAD linkage and real-time updates
- Channel and liner analysis, parking lot design automation

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

This session was presented by Dwayne Tindall on 12/16/2020.

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# 2020 Virtual Workshops Session 2-6 Overview of Carlson's Point Cloud Manipulation Programs Recorded 12/16/2020

This Carlson Software virtual workshop session provided an in-depth overview of the company's point cloud and 3D modeling tools, including Photo Capture, Precision 3D, Point Cloud Basic and Advanced, and related hardware such as the Scan 2K and Fixed One. Presenters demonstrated workflows for processing drone, lidar, and laser scan data, and discussed integration with Carlson's CAD and mining software.

## Key Topics:

- Carlson Photo Capture (drone imagery processing)
- Precision 3D and Point Cloud modules
- Hardware: Scan 2K, Fixed One, and Gyro systems
- Carlson Ops and Blast Ops software integration
- System requirements and pricing overview

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This session was presented by Jennifer DiBona on 12/16/2020.

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# **2020 Virtual Workshops Session 2-5 Carlson SurvCE & SurvPC Software VIP Round Table Recorded 12/16/2020.**

This Carlson Software virtual workshop brought together field-software experts to answer user questions about Carlson SurvCE and SurvPC. Topics included troubleshooting, version 6 updates, Carlson Cloud file sharing, surface staking, and GPS/robotic workflows.

## **Key Topics:**

- SurvCE/SurvPC v6 features and bug reports
- Carlson Cloud setup and account management
- DWG/DXF handling, map overlays, and layer control
- NGS monument queries and coordinate conversions
- Surface staking, mission planning, and field-to-finish coding

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This session was presented by Jennifer DiBona on 12/16/2020.

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# **2020 Virtual Workshops Session**

# **2-4 P3D Topo Hydro&Dynamic CAD Software VIP Round Table Recorded 12/16/2020.**

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## **Key Topics:**

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This session was presented by Jennifer DiBona on 12/16/2020.

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## **2020 Virtual Workshops Session**

# **2-2 Carlson Desktop Software VIP Round Table Recorded 12/16/2020**

This Carlson Software virtual workshop featured a live “Ask the Experts” roundtable focused on desktop software, including Carlson Survey, Civil, Construction, and IntelliCAD. Developers and support leaders discussed common technical issues, new features, and user wishlist items for upcoming releases.

## **Key Topics:**

- IntelliCAD 10 graphics settings and troubleshooting
- Carlson Cloud communication and wishlist enhancements
- Road design and divided highway modeling
- Common tech support issues and fixes
- Dynamic labeling, MText improvements, and GIS integration

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This session was presented by Jennifer DiBona on 12/16/2020.

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## **2020 Virtual Workshop Session 1-7 Survey Project from Start**

# to Finish with Field to Finish & Surfaces

## Recorded 12/15/2020

This Carlson Software virtual workshop, led by Jennifer DiBona, walks participants through a complete survey project workflow using Carlson Survey—from importing field data and creating coordinate files to deed entry, field-to-finish processing, surface modeling, and final sheet setup. The session emphasizes practical command usage, data organization, and troubleshooting techniques for real-world survey drafting.

### Key Topics:

- Importing and managing point data (CRD/CRDB files)
- Deed entry, correlation, and processing
- Field-to-Finish setup and drawing automation
- Surface modeling and triangulation
- Annotation, labeling, and sheet preparation
- Integration with Carlson GIS and Google Earth imagery

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This session was presented by Jennifer DiBona on 12/15/2020.

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## 2020 Virtual Workshop 1-6 Case

# Study Q&A/Project Overview Using Carlson in Civil & Hydrology Design Recorded 12/15/2020

This virtual workshop session features Carlson Software's Mark Long demonstrating real-world civil engineering workflows using Carlson Civil Suite. The presentation covers subdivision design, grading, stormwater management, and road network modeling with practical tips and live demonstrations.

## Key Topics:

- Carlson Civil Suite workflow for civil engineering projects
- Subdivision and roadway design techniques
- Dirt quantity calculations and balancing
- Super elevation and North Carolina DOT standards
- RoadNet, templates, and intersection management

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This session was presented by Mark Long on 12/15/2020.

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# 2020 Virtual Workshop 1-5 Case Study: Q&A/Project Overview of Using Carlson to Create Machine Control Models Recorded 12/15/2020

This virtual workshop, led by Walt Wiles of Terrain Technology, provides an in-depth walkthrough of building GPS-ready 3D surface models using Carlson Civil and IntelliCAD. The session covers drawing preparation, data cleanup, layer management, and model triangulation for machine control applications.

## Key Topics:

- Carlson Civil and IntelliCAD setup for model building
- Data preparation and drawing cleanup
- Layer management and naming conventions
- Creating and editing 3D polylines and surfaces
- Exporting models for machine control (Topcon, Trimble)

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This session was presented by Walt Liles on 12/15/2020.

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# **2020 Virtual Workshop 1-3 Annotation Tips & Tricks for Land Surveyors Recorded 12/15/2020**

This Carlson Software virtual workshop, led by Jeremy Taylor, demonstrates efficient methods for annotating subdivision plats in Carlson CAD. It covers manual and automated annotation, lot closure verification, line and curve tables, and practical workflow tips for surveyors.

## **Key Topics:**

- Carlson Software annotation tools and defaults
- Auto Annotate and line/curve table automation
- Creating and managing lot files and closure reports
- Area labeling and area tables for small lots
- Troubleshooting annotation issues and CAD cleanup

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This session was presented by Jeremy Taylor on 12/15/2022.

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## **2020 Virtual Workshop 1-2**

# Overview of Carlson Software Recorded 12/15/2020

This Carlson Software virtual training workshop, led by Scott Griffin and hosted by That CAD Girl, provides an in-depth walkthrough of Carlson Survey and Civil tools, focusing on Field-to-Finish workflows, coordinate file utilities, lot and road design, and 3D modeling. The session demonstrates efficient CAD automation, data exchange with data collectors, and integration with Google Earth for visualization.

## Key Topics:

- Field-to-Finish setup and symbol management
- Coordinate file utilities and point management
- Tree and pipe feature coding and reporting
- Legal description writer and dynamic labeling
- Construction stakeout and building offset tools
- LotNet subdivision design and reporting
- RoadNet design with intersections, cul-de-sacs, and hammer heads
- 2D-to-3D conversion and surface modeling
- Exporting and overlaying designs in Google Earth

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This session was presented by Scott Griffin on 12/15/2020.