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

A Virtual Workshop Using Carlson Hydrology – Learn to Model detention storage and coordinated utility networks

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

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

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

Survey Project from Field to Plotted Sheet

A Virtual Webinar Using Carlson Software – Learn to Complete Survey Workflows

This webinar demonstrates a complete Carlson Survey workflow, showing how to take raw field data through coordinate file creation, deed entry, surface modeling and final sheet plotting. It covers practical commands, configuration tips and troubleshooting steps for surveyors using Carlson 2020/2021 on IntelliCAD.

Key Topics:

- Carlson configuration and project setup
- Importing and managing point data (CRD files)
- Deed entry, correlation and legal description tools
- Field-to-Finish automation and surface creation
- Plotting, labeling and sheet preparation

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This session was presented by Jennifer DiBona on 01/12/2021.

Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn to Build Accurate Surfaces

This webinar introduces the foundational concepts of surface modeling and breaklines in Carlson Civil and Takeoff. It covers how to prepare data, build accurate surfaces, use breaklines effectively and avoid common pitfalls when working with contours and triangulated irregular networks (TINs).

Key Topics:

- Surface modeling fundamentals in Carlson Civil/Takeoff
- Using 3D Viewer and Shrink Wrap Entities
- Managing non-surface points and breaklines
- Field-to-Finish automation
- Combining and exporting surface data

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This session was presented by Jennifer DiBona on 01/19/2021.

SiteNet & Takeoff Menus In Carlson Civil, Construction & Takeoff

A Virtual Webinar Using Carlson Software – Learn to Calculate Site Quantities

This webinar provides a detailed walkthrough of surface modeling and material takeoff workflows using Carlson Civil and Construction's SiteNet and Takeoff menus. Jennifer DiBona explains how to prepare clean CAD layers, define surfaces, calculate volumes and generate material quantity reports for accurate construction estimating.

Key Topics:

- Layer management and cleanup for surface modeling
- Defining existing and design surfaces in SiteNet
- Setting up subgrade, topsoil and boundary polylines
- Calculating cut/fill volumes and material quantities
- Visual verification and troubleshooting techniques

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This session was presented by Jennifer DiBona on 01/27/2021.

Project Case Study-Using Carlson Takeoff For Quantities and Surface Modeling

A Virtual Webinar Using Carlson Software – Learn to Calculate Quantities

This webinar features Ashton Cary of Terrain Technology demonstrating how to use Carlson Takeoff for quantity calculations and surface modeling in a real-world project. The session covers drawing cleanup, layer management, surface creation and exporting data for machine control applications.

Key Topics:

- Carlson Takeoff workflow for grading and quantity estimation
- Drawing cleanup and layer management in AutoCAD/IntelliCAD
- Creating and verifying existing and proposed surfaces
- Topsoil removal and subgrade adjustments
- Exporting data for machine control (Topcon, Leica)

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ve been AI-generated and may contain errors.

This session was presented by Ashton Cary on 05/26/2021.

Overview of Carlson Point Clouds Using PhotoCapture

A Virtual Webinar Using Carlson Software – Learn to Process Drone and LiDAR Data

This webinar provides a detailed demonstration of Carlson Photo Capture and Carlson Point Cloud software, showcasing how drone imagery and LiDAR data can be processed into accurate 3D surfaces for site design. The session covers workflows, pricing models and integration with Carlson Precision 3D and hydrology tools.

Key Topics:

- Carlson Photo Capture setup and workflow
- Carlson Point Cloud processing and editing tools
- Integration with Precision 3D and hydrology modeling
- Kentucky LIDAR data access and usage
- Surface creation, breaklines and stormwater design

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This session was presented by Steve Cummings on 05/20/2021.

More Surfaces: Volumes, Editing & Display Tips & Tricks

A Virtual Webinar Using Carlson Software – Learn to Analyze Surface Volumes

This webinar, hosted by That CAD Girl, provides an in-depth walkthrough of Carlson Software's surface modeling tools, including creating, editing and analyzing surfaces, volumes and contours. Jennifer demonstrates practical workflows for managing TIN files, comparing surfaces and visualizing data in 3D for civil and survey applications.

Key Topics:

- Working with TIN files and surface visualization
- Creating and editing surfaces, contours and boundaries
- Volume calculations and cut/fill analysis
- Integrating GIS and elevation data
- Practical Carlson Civil and Survey tips

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This session was presented by Jennifer DiBona on 10/12/2021.

2020 Virtual Workshops Session #3-7: Sanitary Sewer Design in Carlson Hydrology

A Virtual Workshop Using Carlson Hydrology – Learn to Prepare watersheds and design storm drainage networks

This Carlson Software virtual workshop, led by hydrology expert Mark Long, provides an in-depth walkthrough of storm and sanitary sewer design using Carlson 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 to ols
- Managing surfaces, rainfall data and hydraulic grade lines

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

2020 Virtual Workshops Session #3-5: Tips & Tricks in CAD & Carlson Software

A Virtual Workshop Using Carlson CADnet – Learn to Speed up raster-plan work and routine cad drafting

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, block management and title block templates
- 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.

2020 Virtual Workshops Session #3-4: Carlson Point Cloud

A Virtual Workshop Using Carlson Point Cloud – Learn to Process Point Clouds into Surfaces

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 Steve Cummings and David Kraus on 12/17/2020.