

2016 Virtual Classroom – Civil & Hydrology Virtual Workshop – Session 2

Recorded 05/24/2016

This session from the Civil & Hydrology Virtual Workshop provides an in-depth look at creating and managing surfaces and grading in Carlson Civil and Survey. It covers triangulation, contour generation, break lines, merging surfaces, and practical grading workflows for real-world design projects.

Key Topics:

- Building surfaces from points, contours, and break lines
- Managing TIN files and contour labeling
- Using Field-to-Finish, triangulation, and surface editing
- Merging survey and GIS elevation data
- Grading pads, daylighting, and balancing cut/fill volumes

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This session was presented by Jennifer DiBona on 05/24/2016.

2016 Virtual Classroom – Civil

& Hydrology Virtual Workshop – Session 1 Recorded 05/24/2016

This webinar, hosted by That CAD Girl, provides a detailed walkt hrough of Carlson Civil and Hydrology tools, focusing on CAD pro ductivity tips, polyline utilities, annotation techniques, and s urface modeling workflows. Attendees learn practical methods for editing, labeling, and automating civil design elements within Carlson software.

Key Topics:

- GoToWebinar setup, PDH credit tracking, and participation instructions
- Polyline editing and 3D offset tools in Carlson Civil
- Annotation, labeling, and auto-annotate settings for survey drawings
- Layout utilities for roads, cul-de-sacs, and right-of-way design
- Point management, text rotation, and labeling pad elevatio ns

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This session was presented by Jennifer DiBona on 05/24/2016.

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.

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.

Using Carlson Hydrology for Storm Drain Design

A Virtual Webinar Using Carlson Software – Learn to Design Storm Drains

This webinar provides a detailed walkthrough of storm drain design using Carlson Hydrology. Mark Long demonstrates how to set up networks, define watershed parameters, size pipes, and create plan and profile drawings within Carlson Software.

Key Topics:

- Carlson Hydrology interface and setup
- Watershed and drainage area calculations
- Storm and sanitary sewer network creation
- Pipe sizing, slopes, and hydraulic grade line design
- Drawing plan and profile views with labeling and crossings

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This session was presented by Mark Long on 05/13/2021.

Using Carlson Hydrology for Detention Pond Design

A Virtual Webinar Using Carlson Software – Learn to Improve Hydrology Workflows

This webinar, hosted by That CAD Girl and presented by Mark Long, provides a detailed walkthrough of using Carlson Hydrology software for detention pond design. It covers watershed setup, surface modeling, stormwater calculations, and pond sizing workflows within Carlson Civil.

Key Topics:

- Setting up watershed layers and ground covers
- Pre- and post-construction surface modeling
- Detention pond sizing and stage-storage calculations
- Creating outlet devices and hydrographs
- Generating reports and design documentation

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This session was presented by Mark Long on 6/10/2021.

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 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 tools
- 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

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.

**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.

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.