

# **Beyond the Basics-Advanced Layout and Grading Techniques With Carlson Software 1-2 Recorded 08/03/2022**

This advanced Carlson Software training session demonstrates how to integrate RoadNet, LotNet, and SiteNet for efficient site design, grading, and earthwork balancing. Travis provides step-by-step instruction on creating entrances, managing templates, grading driveways, and dynamically adjusting surfaces for balanced cut/fill results.

## **Key Topics:**

- Integrating RoadNet, LotNet, and SiteNet for coordinated grading
- Creating and editing road and entrance templates
- Dynamic surface editing and balancing earthwork
- Driveway and building pad elevation control
- Using SiteNet for cost estimation and surface management

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

This session was presented by Travis Maxwell on 08/03/2022.

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# **Beyond the Basics-Advanced Layout and Grading Techniques With Carlson Software 1-1 Recorded 08/03/2022**

This webinar introduces advanced subdivision layout and grading workflows in Carlson Software, focusing on Lot Net, Road Net, and Site Net integration. Attendees learn how to automate residential subdivision design, apply sheet sets, and manage 3D grading for efficient plan production.

## **Key Topics:**

- Carlson Lot Net, Road Net, and Site Net workflows
- Sheet Set Manager setup and custom fields
- Layer management and naming conventions
- Automated lot subdivision and grading logic
- Road Network intersections, cul-de-sacs, and roundabouts
- Template creation, transitions, and 3D line generation
- Earthwork balancing and site modeling

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This session was presented by Travis Maxwell on 08/03/2022.

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# Site Selection and Feasibility Studies Using Carlson Software

## Session Follow Up 1-3

### Recorded 07/19/2022

This follow-up webinar, led by Travis and hosted by That CAD Girl, provided an in-depth demonstration of Carlson Software tools for site selection and feasibility studies. The session focused on residential lot grading, cost estimation, and advanced use of Road Net, Lot Net, and SiteNet modules.

#### Key Topics:

- Residential lot grading and elevation setup
- Road Net and Lot Net configuration for subdivisions
- Cost estimation using sewer and utility networks
- Driveway and pad design automation
- Integration of GIS and Google imagery for site modeling

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This session was presented by Travis Maxwell on 07/19/2022.

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# Site Selection and Feasibility Studies Using Carlson Software

## Session 1-2

### Recorded 7/12/2022

This training session demonstrates how to perform site selection and feasibility studies using Carlson Software tools. Travis walks through practical workflows for importing GIS and Google Earth data, grading, balancing earthwork, and estimating construction costs for commercial and residential projects.

#### Key Topics:

- Importing and aligning GIS and Google Earth data
- Creating and balancing grading surfaces with SiteNet
- Cost estimation using linear, area, and count-based materials
- Setting up residential subdivisions with RoadNet and LotNet
- Managing floodplain, wetlands, and feasibility constraints

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This session was presented by Travis Maxwell on 07/12/2022.

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# Site Selection and Feasibility Studies Using Carlson Software

## 1-1

**Recorded 07/12/22**

This webinar, led by Travis Maxwell and hosted by That CAD Girl, provides a detailed walkthrough of performing site selection and feasibility studies using Carlson Software. The session demonstrates how to obtain existing site data, analyze flood hazards, calculate earthwork volumes, and create grading models efficiently within Carlson's Civil Suite.

### **Key Topics:**

- Using Carlson SiteNet for feasibility and earthwork analysis
- Importing and processing Google Earth and GIS data
- Evaluating flood hazard elevations and site grading
- Creating and editing pad grades and boundaries
- Cost estimation and balancing cut/fill volumes

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This session was presented by Travis Maxwell on 07/12/2022.

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# **2023 Virtual Workshop – Session #4-4 Recorded 12/06/2023**

This virtual Carlson Software workshop demonstrates advanced SiteNet workflows for calculating material and dirt quantities, managing topsoil removal and replacement, and performing drawing cleanup and 2D-to-3D data conversion. The session provides practical guidance for preparing accurate takeoff models and cleaning complex CAD drawings for construction and civil design.

## **Key Topics:**

- Carlson SiteNet volume and material reports
- Topsoil removal and replacement setup
- Surface Inspector and Surface Tools
- 2D-to-3D Polyline conversion methods
- Drawing Cleanup and Layer Management
- LandXML export and machine control files

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This session was presented by Jennifer DiBona on 12/06/2023.

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# **2023 Virtual Workshop –**

# Session #4-3

## Recorded 12/06/2026

This virtual Carlson Software workshop demonstrates advanced SiteNet workflows for calculating material and dirt quantities, managing topsoil removal and replacement, and performing drawing cleanup and 2D-to-3D data conversion. The session provides practical guidance for preparing accurate takeoff models and cleaning complex CAD drawings for construction and civil design.

### Key Topics:

- Carlson SiteNet volume and material reports
- Topsoil removal and replacement setup
- Surface Inspector and Surface Tools
- 2D-to-3D Polyline conversion methods
- Drawing Cleanup and Layer Management
- LandXML export and machine control files

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

This session was presented by Jennifer DiBona on 12/06/2023.

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# 2023 Virtual Workshop – Session #4-2

# Recorded 12/06/2023

This virtual workshop, led by Mark Long of Carlson Software, provided an in-depth walkthrough of hydrology and pipe design tools within Carlson Civil and Hydrology modules. The session covered watershed setup, storm drainage design, pipe network creation, and profile management for civil engineering projects.

## Key Topics:

- Hydrology and watershed layer setup
- Storm drainage and pipe network design
- Surface modeling and volume balancing
- Inlet and structure libraries
- Sewer network settings and profile generation

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This session was presented by Mark Long on 12/06/2023.

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# 2023 Virtual Workshop – Session #4-1 Recorded 12/6/2023

This virtual training session, led by Mark Long from Carlson Software, provides an in-depth walkthrough of Carlson Civil's RoadNet module for roadway and site design. The class covers setup, surface modeling, templ

ates, intersections, cul-de-sacs, knuckles, and integration with hydrology and grading workflows.

**Key Topics:**

- Carlson RoadNet setup and configuration
- Creating and managing surfaces, templates, and subgrades
- Handling intersections, cul-de-sacs, and knuckles
- Layer discipline and hydrology integration
- Template point centerlines and super elevation design

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This session was presented by Mark Long on 12/06/2023.

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# **2023 Virtual Workshop – Session #3-4 Recorded 11/29/2023**

This Carlson Software virtual workshop, hosted by That CAD Girl, provided an in-depth demonstration of Carlson's Point Cloud module, lidar data integration, and survey data processing workflows. The session concluded with updates on coordinate projection changes in 2024 and practical guidance on raw data editing and GPS processing.

**Key Topics:**

- Point Cloud module setup and lidar data workflows

- Creating and refining surface models (TINs)
- Integrating lidar, Google Earth, and survey data
- Carlson 2024 projection and datum updates (NAD83 2011)
- Edit Process Raw Data and GPS base point handling
- Upcoming improvements in Carlson Serve PC, Serve Net, and GNSS tools

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This session was presented by Jennifer DiBona and Doug Aaberg on 11/29/2023.