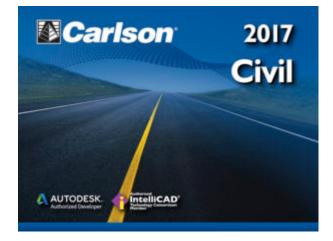
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Frequently Asked Questions

[FAQ303] What features & menus are in Carlson Civil? (a running thread)

FAQ: What are the latest improvements in Carlson Software?



Features and Benefits of Civil 2017

Carlson Civil is a fully dynamic, 3d civil design program that contains all the tools an engineer, designer or design build professional needs. Here are some of the things you can do with **Carlson Civil**:

 Utilize the very best Carlson software support tools for all your design build, site design & site grading, subdivision design & subdivision grading and road design & road grading needs,

- Perform tasks associated with civil BIM (Building Information Modeling),
- Use the Lot Network feature to create a dynamic subdivision design that takes into account road centerline and right of way, building setbacks, wetland or poor soils areas and inserts one or more building footprints onto each lot,
- Use vehicle path tracking to ensure adequate roadway clearance,
- Create, define, edit and draw centerline alignments using a variety of methods including best fit,
- Easily elevate 2d, zero-elevation polylines from points, text or text with a leader for detailed site grading,
- Label elevation, slope and other properties of polylines,
- Design a centerline and profile along a surface that maintains a maximum slope,
- Import surfaces from Civil 3d and Google Earth®,
- Create surface model files for existing and proposed conditions,
- Design and balance cut and fill for one or more building pads at a time,
- Edit the contours generated from a surface model and automatically update the underlying TIN file,
- Calculate earthwork volumes between two surfaces including building pads, stockpiles and borrow pits,
- Report storage volumes for bench and valley ponds that can be designed using various design criteria such as adding multiple interior benches and automatically removing the berm in cut conditions,
- Use the layer-based SiteNet commands to calculate and report volumes and/or quantities:
 - Of an entire site or within a perimeter Polyline,
 - •Of cut & fill dirt; of topsoil removal &

replacement; of materials such as asphalt, stone, concrete and curb; and of pipe and structure depth,

- That can be exported directly to Microsoft Excel®,
- Create cut & fill color maps or a grid of cut and fill labels,
- Create, define, edit and draw profiles using a variety of methods including best fit,
- Create, define, edit and draw cross sections using a variety of methods,
- Define, edit and draw typical cross sections to create a library of roadway templates that meet detailed design standards,
- Use the Road Network feature to dynamically design a network of highways or roads that automatically tie intersections together, allow detailed grading at each intersection and cul-de-sac and allow real-time volume determination as the road profile is adjusted,
- Design roads that that incorporate varying roadway widths, multiple templates, super elevation, topsoil removal & replacement, road rehabilitation including overlays after leveling or milling operations and more,
- Automatically elevate building pads and property lot lines using grading rules applied to a road design,
- Process Road Design for final sections, final contours and volumes,
- Pick a button to "Process" or have updates automatically occur when changes to centerlines or surfaces affect profiles, changes to profiles affect cross sections or changes to surfaces affect storm or sewer structures,
- Automatically generate a Carson software support plan and profile sheets in model or paper space where the plan and profile views can be shifted or rotated incrementally with the pick of a button,
- View your entities or surfaces in 3d or drive through them

in a humvee, police car or school bus.

Menus in Civil 2017

Menu Bar in Civil 2017

Carlson Civil 2017 with IntelliCAD - NOT FOR RESALE [CRD: NONE] - [Drawing1.dwg]

 File
 Edit
 View
 Draw Inquiry
 Sections
 Roads
 Area/Layout
 Annotate
 Window
 Help

The menus below are available in Carlson Civil 2017

3D Data Menu

30	Data	
	Change Bevations	
ş٥,	Set Polyline To Elevation	
ħ	Edit-Assign Polyline Elevations	
	Edit-Assign Wall Polyline Profiles	
	2D to 3D Polyline	٠
	Assign Contour Elevations	
۰	3D Entity by Surface Model	
	Pad Polyline By Interior Text	
0	Draw Building Envelope Polyline	
	Elevate By Grade Rules	
	Spot Devations	
	Devute Text	
	Set Point Devations	
	3D Points	٠
	Create Ridge Polylines From Contours	
	Create Breaklines From Triangulation	
	3D Polyline Utilities	
	Draw Curb Ramp	
	Label Polylines	
	Highlight 3D Polylines	
	Report 3D Polyline Station-Elev	
	Story Stake	٠
	Non-Surface Points/Entities	
	Hard Breaklines	

Surface Menu



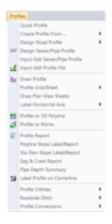
SiteNet Menu

50	Met									
8	Define Layer Surface/Material/Subgrade									
	Set Layer Target									
0	Display Existing Layers									
8	Display Design Layers									
G	Display Other Layers									
8	Display Options									
	Boundary Polyline									
	Areas Of Interest									
	Subgrade Areas									
	Topsoil Removal/Replacement									
	Perimeter Polyline Properties									
Ľ	Make Existing Ground Surface									
	Make Design Surface									
e.	3D Drive Simulation									
N	Quick Profile									
	Surface Tools									
-	Calculate Total Volumes									
	Calculate Volumes Inside Perimeter									
	Material Quantities									

Centerline Menu



Profiles Menu



Sections Menu



Roads Menu



Area Layout Menu

Are	a/Layou1	
	Area Defaults	
٠	Inverse with Area (IA)	
0	Area by Lines & Arcs	
Ξ	Area by Interior Point	
0	Area by Closed Polylines	
	Area Utilities	
	Area Tables	
	Area Descriptions	
	Adjust Areas	
	Layout Utilities	
(B	Lot Network Settings	
	Lot Network Boundary	
	Lot Network Sub-Areas	
	Lot Network Roads	
	Lot Network Linework	
	Lot Network Areas	
	Lot Network Labels	
	Lot Network Utilities	•
	Set Lot File	
	Create Lots	
2	Lot File Manager	
	Lot File Utilities	

Annotate Menu



The menus below are in all non-OEM programs of Carlson 2017 desktop software

(Click image to see more)

File		Edit		Viev	v	Drav	v	Inqu	uiry	Sett	tings	Poir	its	3D S	Solids
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	Project		Clipboard		Extents	Ŀ	3D Polyline	4	Layer ID	S	Carlson Config	j,≣¢	List Points		Box
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	Save	- 1	Move	Q	Zoom Point		Rectangle	7	Layer Inspecto		Settings File M		Export Text/	'n	Cylinder
2	Save As		Сору		Pan		Arc	8	Drawing Inspe	- 🐶	IntelliCAD Opt		Set CooRDi		Sphere
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	Export		Extend	9	Redraw		Leader	(?	Curve Info		Layer Library		Thaw Points	•	Revolve
	MicroStati		Break	9	Regen	١ <u>١</u>	Wipeout	∆?	Angle Info		3D Model Libra	ž	Lock Points	4	Extrude
	Xref		Chamfer		UCS		Draw To St	.2⊃	Polyline Info		Quick Keys		Adjust Coor		Slice
2	Drawing E		Change		Twist Screer	~	Draw By Ex		Display-Edit Fi		Carlson Menu:				Polysolid
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	Drawing U		Scale		Display Ord	1	Boundary F		Load Last Rep		Mortgage Bloo	.NA ■	Edit Multipl	5	Sweep
	Scripts	R	Attribute		Show/Hide	-						Ŧ	Move Point	6	Section

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