

# That CAD Girl

## What features & menus are in Carlson Hydrology? (a running thread)

August 20, 2016

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### *Features and Benefits of Hydrology 2017*

**Carlson Hydrology** provides CAD support comparable to the hydrology components of programs such as: DCA®/Softdesk®/Land

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Desktop, Civil 3d, Eagle Point®, TerraModel®, GeoPak® and InRoads®.

Here are some of the things you can do with **Carlson Hydrology**:

- Use it to perform all of your stormwater modeling and design or use it to compile data that can then be used in other hydrology programs,
- Link directly to other hydrology programs including HydroCAD®, Pizer HYDRA®, TR-20, SEDCAD, HEC-RAS and HEC-2,
- Analyze and design using either SCS or Rational method,
- Determine runoff volumes with easy-to-use, layer-based tools
- Track runoff and analyze watershed data within the entire watershed or just above a selected point – such as a catch basin,
- Create surface model files with CAD support for existing and proposed conditions
- Design and then report storage volumes for bench and valley ponds that can be designed using various design criteria such as adding multiple interior benches and

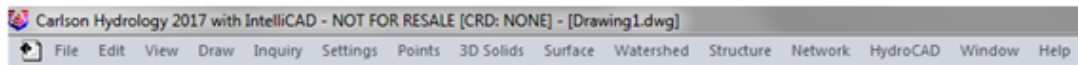
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- automatically removing the berm in cut conditions,
- Create custom fields for pipe structures and inlet libraries,
- Tap extensive libraries for rainfall data, inlets, manholes and outlet structures,
- Pick a button to “Process” or have updates automatically occur when changes to road designs surfaces affect storm or sewer structures,
- Design sanitary sewer or storm pipe runs in a dockable palette or in a spreadsheet editor,
- Tie pipe design criteria to surfaces, centerlines and profiles
- Calculate inlet intercepted and bypass flows, gutter spread and depth, pipe flow depth and velocity, and hydraulic and energy grade lines
- Choose to match stormwater pipes at the crown or at the flowline
- Receive warnings for collisions and when pipe length, cover, slope, flow rates or other design criteria do not fall within an acceptable, customizable range
- Design ponds, spillways, orifices, weirs, multiple outlets, channels, culverts, pipes and lift stations
- Draft sewer pipe dynamically in plans, profiles and 3D

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## *Menus in Hydrology 2017*

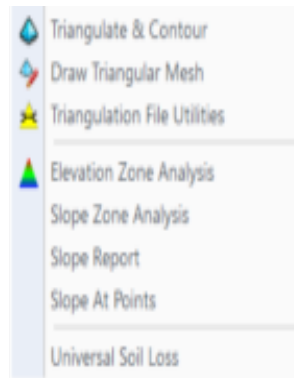
### Menu Bar in Hydrology 2017



The menus below are available in Carlson Hydrology 2017

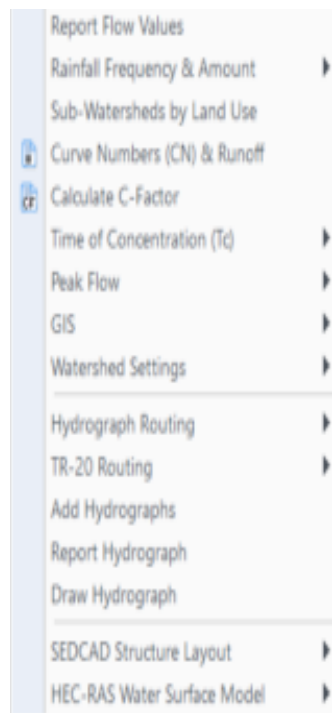
### Surface Menu

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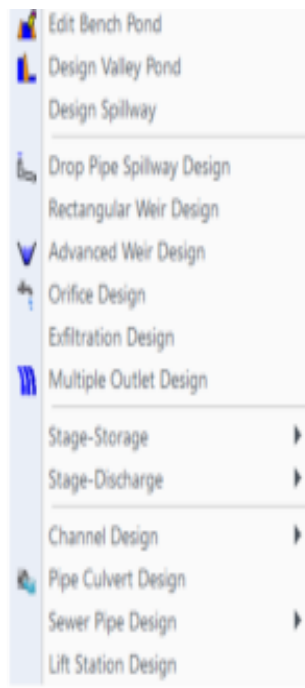
## Watershed Menu

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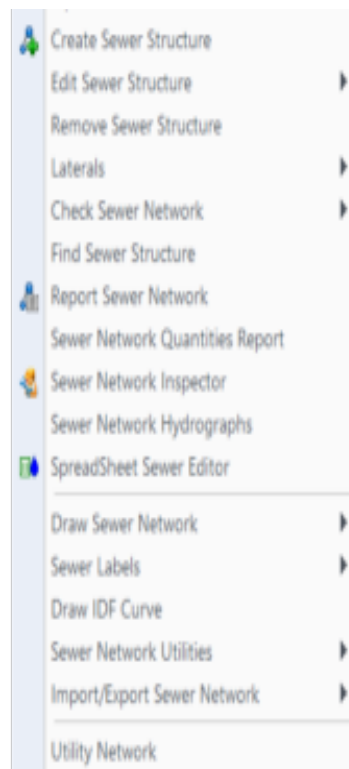
## Structure Menu

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## Network Menu

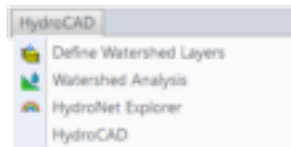
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## HydroCAD Menu



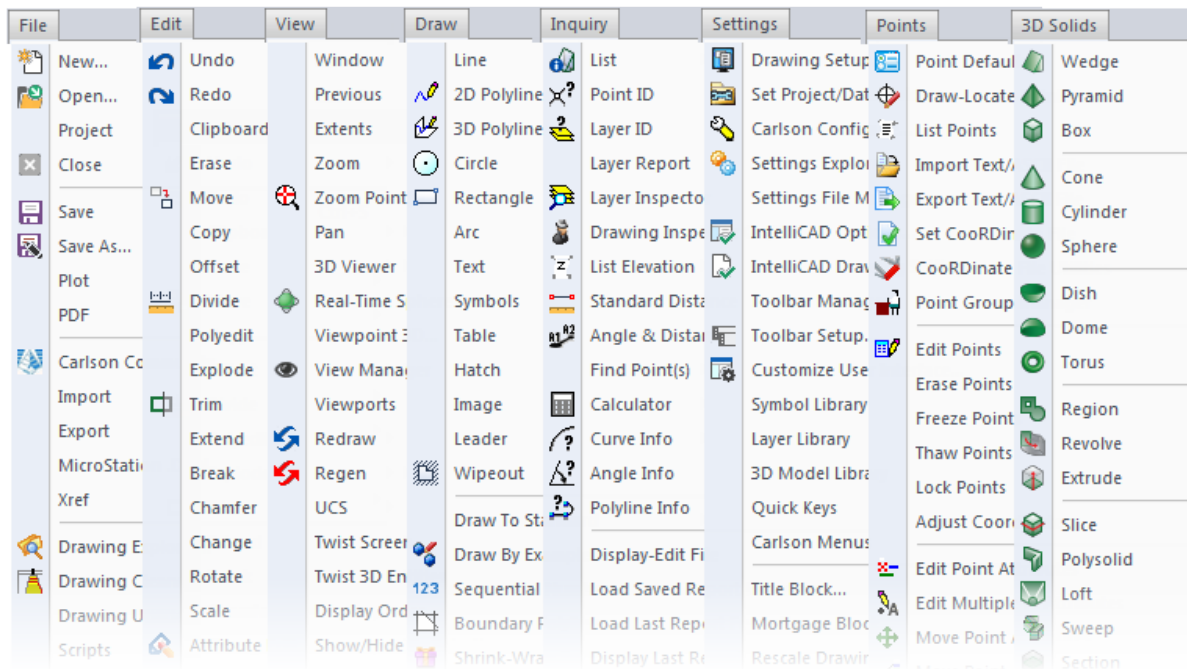
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**The menus below are in all non-OEM programs of Carlson 2017  
desktop software**

(Click image to see more)

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