CIVIL SOFTWARE DESIGN, LLC

SEDCAD 4 for Windows was developed specifically for the design and evaluation of alternative erosion prevention and sediment control systems with a focus on earth-disturbing activities. It is a comprehensive program that includes hydrology, hydraulics, and design and evaluation of the effectiveness of both individual and an integrated system of erosion prevention and sediment control measures with respect to sediment trap efficiency and effluent sediment concentration.

SEDCAD 4 is being used to design and evaluate erosion prevention and sediment control systems for surface mining, residential subdivisions, commercial properties including office parks, shopping centers, schools, airports, industrial sites, refuge transfer stations, golf courses, hydroelectric facilities, municipal, hazardous and low level nuclear landfills, and linear developments such as highways and utility lines. The program uses classic, well-established methodologies for hydrologic and hydraulic analysis. The SCS Unit Hydrograph method has been slightly modified to enable more accurate prediction of disturbed lands and forested areas. Hydraulic routing techniques, all channel designs, culverts and energy dissipaters were designed using well-established and broadly used techniques. SEDCAD 4 is also capable of predicting the effectiveness of sediment basins, sediment traps, silt fences, porous rock silt checks (check dams), and grass filters. Most of the sediment control procedures have been developed based on extensive research conducted at the University of Kentucky. Aggressive verification research programs have been conducted at UK, and are continuing. Sediment basins and traps are monitored both in the field and in a large-scale laboratory pond. Verification includes measurement of inflow and effluent stormwater, sediment concentrations, and particle size distributions.

The initial release of SEDCAD was in 1987, and the program is continually being upgraded by incorporating applied research from universities and government research facilities, feedback from users, and advances in operating systems, CAD software and computer capabilities.

If you have any questions, please contact Civil Software Design (515-292-4115 or pschwab@mysedcad.com) and/or Dr. Richard Warner at the University of Kentucky (859-312-8956 or richard.warner@uky.edu).

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PHONE: 859-312-8956 (LEXINGTON, KY); PHONE/FAX: 515-292-4115 (AMES, IA)

Your foundation for increased profitability!

SEDCAD 4

for Windows®

Design of Stormwater, Erosion, and Sediment Control Systems

What we did...

Created the foundation for rapid future developments

Stripped all code to basic equations

Re-derived equations and wrote new algorithms

Programmed for speed utilizing a 32-bit processor

Results...

Windows® program,using familiar Windows® interface and printer drivers

Virtually unlimited and unrestricted networking

Dynamic design mode

Add/delete/change structures and subwatersheds with a click

Rapid full-screen editing

Silt Fence designs

NRCS (SCS) TR-55 emulator

Extensive HELP tables, figures and guidance

Graphical viewing and outputs

... and much more!

Windows® 95 and higher

Fully implements Windows® 95 through XP using standards of graphical user interface (GUI) design

Use of Windows® printer drivers provides sophisticated report and extensive graphing capabilities

Networking is virtually unlimited and unrestricted

Junctions and branches are no longer used

Structures can be placed at any location and in any sequence

Large mines, subdivisions and landfills can be modeled in a single dynamic run

Dynamic design mode

The calculations are always running in background mode

Once subwatershed parameters are entered, the peak flow, peak sediment concentration, hydrograph and sedimentgraph are immediately available to design the structure

Proceed from structure to structure, completing designs

Add/delete/change Structures and Subwatersheds with a click

Structures can be inserted anywhere

The impact of alternative structures can be readily evalutated

Rapid Full Screen Editing

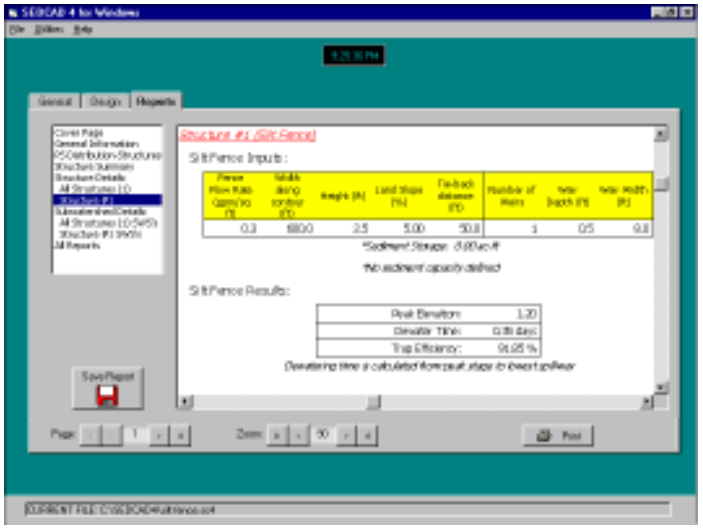
Simply point-and-click to move to the desired input screen

Silt Fence designs

Determine the sediment trap efficiency and effluent concentration

NRCS (SCS) TR-55 emulator

Emulate the TR-55 unit hydrograph and obtain a peak flow which closely matches TR-55



Graphical viewing and outputs

Zoom in capability on all graphics

Print graphics using Windows printer drivers

Save graphic to file (.BMP, .EPS, .WMF)

... and much more!

Extensive Help tables, figures and guidance

New 'C factors' and mining spoil erodibility 'K factors'

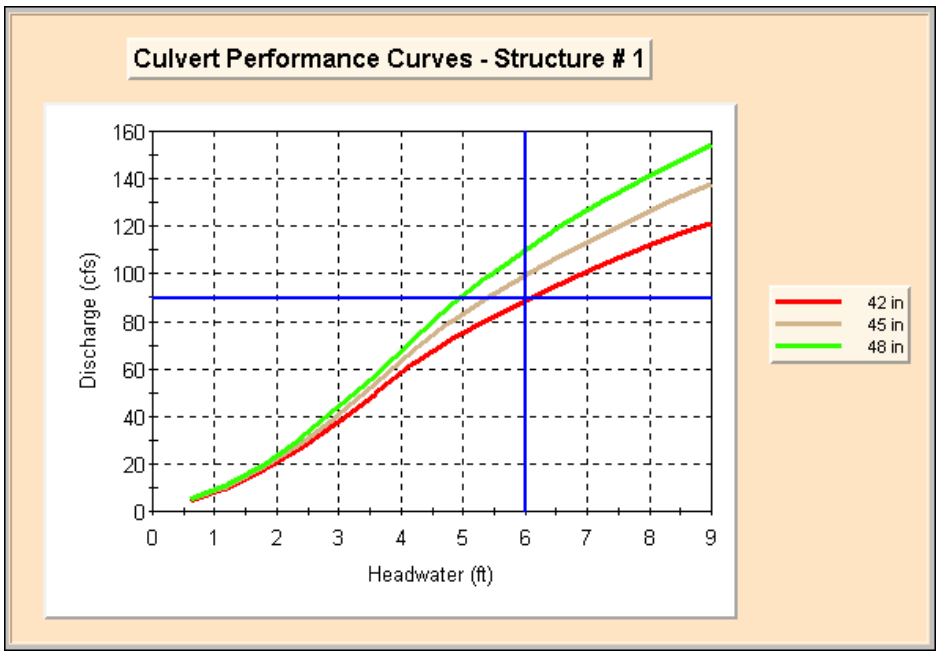
Curve Number tables available with a click

Semi-circular and circular non-erodible channels

Save and recall erodible particle size distributions

Save and recall utilities

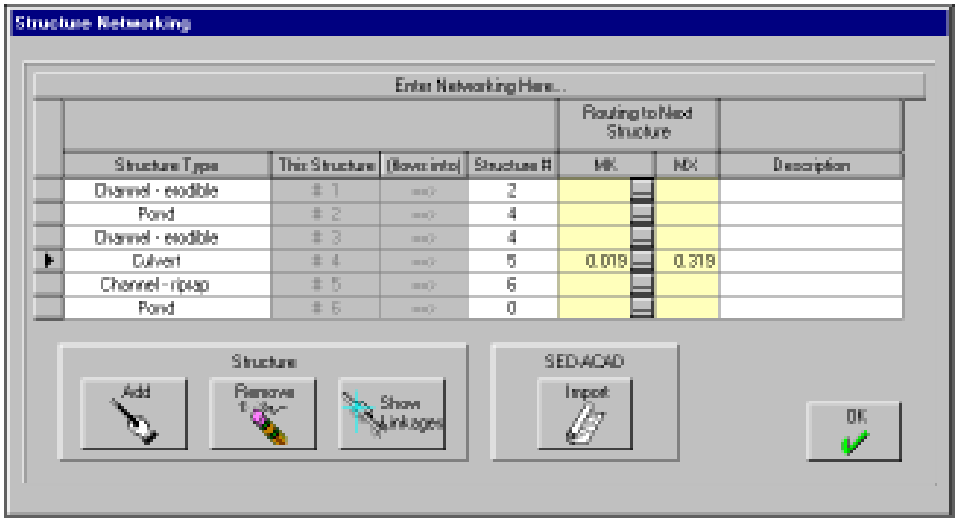
SEDCAD Report Viewer



Culvert Performance Curve Graph Results

System Requirements

- Windows 95 or higher
- 32 MB of RAM (minimum recommended)
- 25 MB of hard disk space
- Intel 486, Pentium (recommended), or better or compatible processor
- 800 x 600 VGA video disply
- Mouse



Input screen for Networking

Contact us for information on short courses!

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SEDCAD™ for Windows
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☐FedEx Standard Overnight: $56.00

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Phone: _____
Email: _____

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☐PayPal: *Email for invoice* _____
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Name as shown on Card: _____
Signature: _____

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