

RoadEng®

All your civil projects made simple

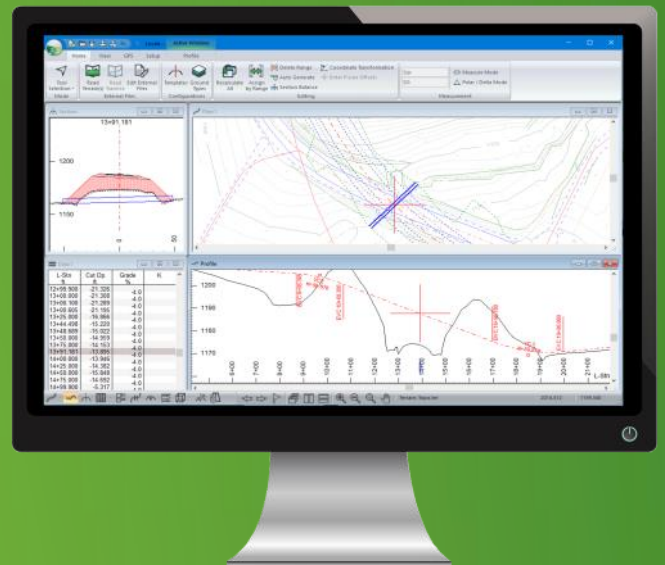
New roads | Realignments |
Widening projects | Bridge site design |
Culvert replacements | Earthwork calculations |
Construction cost reduction features

The Uncomplicated Design Software that still DOES Complicated Stuff

Quick learning curve. Easy to learn, easy to use. 90% of RoadEng users require no formal training. Learn on your own, and access unlimited technical support when you need it.

Design start to finish. Enter survey data. Create and manipulate accurate terrain models. Engineer complete road and site designs. Create PDF output sheets. Faster than you ever imagined.

Compatible engineering tool. Easily share DWG, DGN, and LandXML files with other programs. RoadEng works alone, or it can integrate into other CAD or GIS-based engineering systems.



Everything you need. Nothing more.

A simple user interface. Dynamic update of all windows. Customizable layouts. RoadEng is the light, fast, and intuitive design software you've been looking for.



FAST



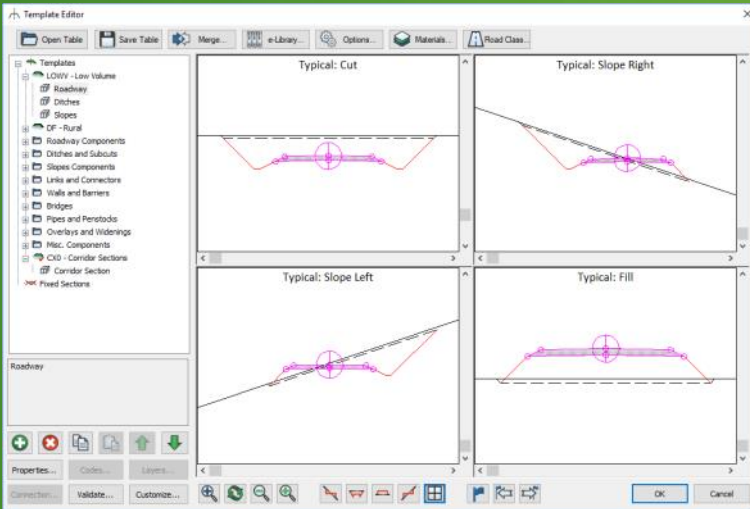
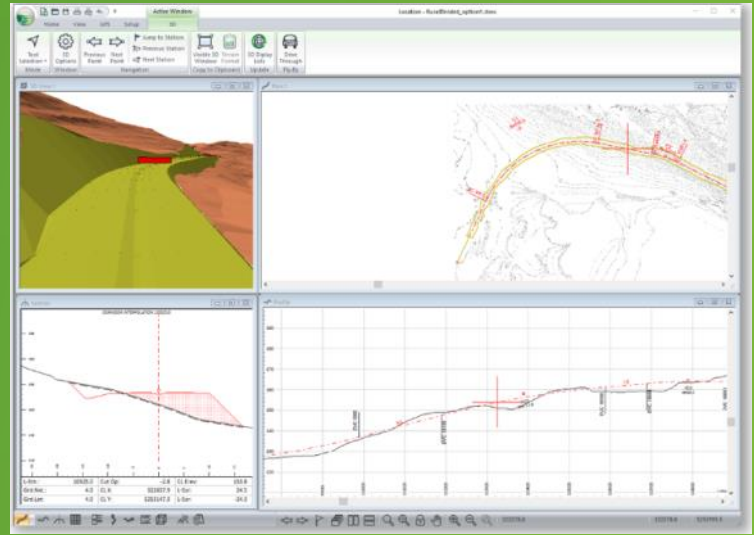
POWERFUL



COMPATIBLE

FOCUSED ON ROAD DESIGN

Geometric road design in a simple and intuitive user interface. Dynamic update of all windows. Customizable layouts. Continually monitor slope stake positions, right-of-way, grades, volumes, and mass haul in real-time as you design. RoadEng's real-time interactivity means windows simultaneously update, so you'll never have to dig for your data.



CROSS-SECTION TEMPLATE CONTROL

RoadEng's flexible template editor allows you to assemble typical sections using a library of customizable components. Account for ditches, pavement, sub-base materials, varying lane widths, cut slopes, variable height fill slopes, curbs, sidewalks etc.

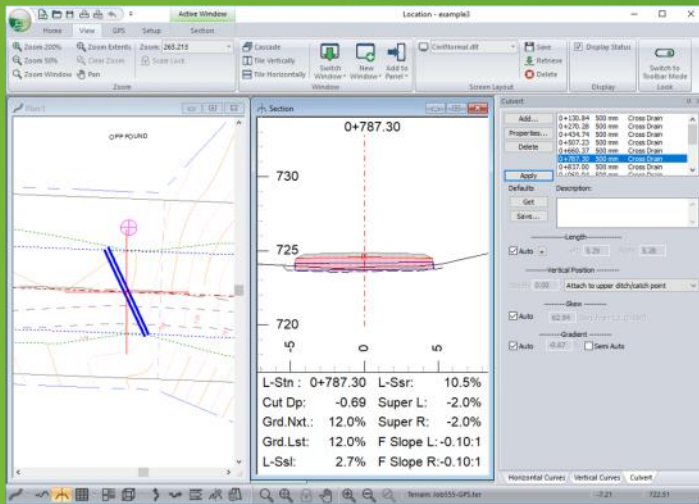
CONSTRUCTION MANAGEMENT

Calculate your earthwork quantities. Increase efficiency by tracking and reporting material movement. Graphically analyze material movement and reduce construction costs. With earthwork costing data as you design, you can adjust your design based on cost. Know preliminary construction costs before you build. The Cross Section Editor allows you to easily calculate as-built quantities, comparing surfaces and layers such as stripping, sub-cut, sub-grade or original ground. Volume and area reports can be printed directly from RoadEng or exported to Excel®.



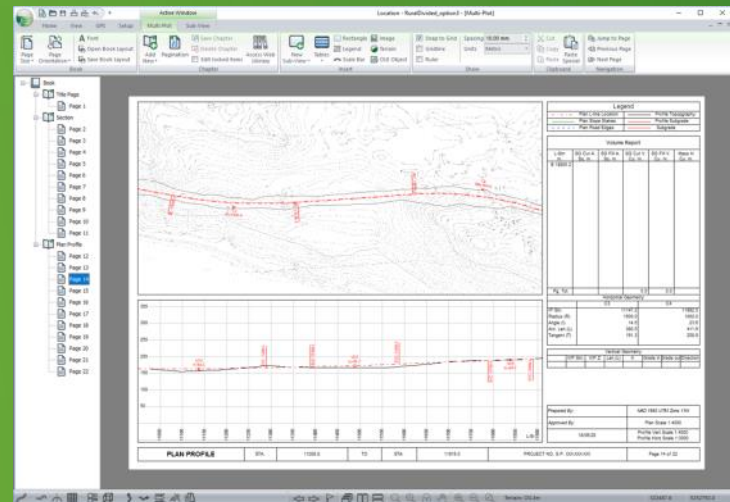
CULVERT DESIGN

Interactive culvert editor panel allows you to modify culvert position, diameter, type, length, skew and gradient. Add, edit and remove culverts using the culvert editor panel. Design options available for both natural stream crossings and cross drains.



CUSTOMIZE OUTPUT WITH MULTI-PLOT

Easily share and showcase your design with Multi-Plot Report Builder. Print out plan, profile, and cross-section data as one document. Simplify your presentation of deliverables with single document control.



SOFTWARE REQUIREMENTS:

Reads/Writes:

- AutoCAD® DWG / DXF
- Land XML
- XYZ ASCII Points
- ESRI ArcGIS® Shape

- Windows 7, 8, 8.1, or 10 Operating System
- 2 GB system RAM (4 GB recommended)
- Min. 800 x 600 resolution (more recommended)
- Processor or motherboard built-in video is adequate
- 1 GB disk space
- Available in 32 and 64-bit configurations

FUNCTION COMPARISON

TERRAIN MODULE	TerrainTools	RoadEng
Basic mapping and CAD functions.	✓	✓
Import of TIF, JPG, BMP, SHP, Mr.SID, ECW, LAS, LAZ, GPX, GML, ASCII, MS Excel, DXF, DWG, USGS DEM, SDTS, Land XML, DGN.	✓	✓
Direct interface with GPS (NMEA, Garmin devices, Windows Location Services)	✓	✓
Direct connection to TruPulse 360 Laser Guns	✓	✓
Digitizing — tracing areas and lengths from scaled maps.	✓	✓
Extended CAD functions — curves, buffering, and clipping.	✓	✓
Profiles — display of up to 25 profiles.	✓	✓
Profile Drafting & Design — provides editing in the profile window.	✓	✓
Surface Generation & Contouring — includes TIN generation and display (recommended 10 million point maximum)	✓	✓
Volume Calculation & Reporting — volumes and surface area calculations.	✓	✓
3D Window — perspective display of 3D features and TIN surfaces.	✓	✓
Drive-through Mode	✓	✓
Image Adjustment — adjustment to known control pts (rubber sheeting images).	✓	✓
Export to ASCII, DWG, DGN, DXF, Google Earth, SHP, TIF, JPG, BMP and LandXML.	✓	✓
Multi-Plot — creation of output sheets, title blocks, legends, north arrows etc.	✓	✓

LOCATION MODULE	TerrainTools	RoadEng
Alignment Design — in plan, profile and section.		✓
Horizontal and vertical curves — includes super-elevation and transitions.		✓
Earthwork calculations, slope stake reporting.		✓
Basic templates — creating new templates from stock object library.		✓
P-Line Design — allows a design to be created from a p-line (station/offset x-sections).		✓
Multi-Plot — creation of plan/profile sheets.		✓
Profile Sub-Windows — mass-haul, ground type, side slope and more.		✓
Culvert Editor — interactive editing of culvert position, length and skew.		✓
Auto Balance — automatic balancing of earthwork quantities.		✓
Sub-Surfaces — sub-surface display and volume calculations.		✓
Advanced Curve Design — sight distance, design speed and spirals.		✓
Extended Templates — creation of new template objects and point codes.		✓
Cross Section Editor — editing of individual cross sections.		✓
Alignment Properties Panel — properties and costs for multiple alignments - vertical and horizontal		✓
Smart Pits — recommends optimal pit locations		✓
Design Time Costing — calculation of alignment design costs as you design		✓

Available in 32-bit and 64-bit configurations

A powerful, easy-to-use, complete civil design tool set



Agriculture



County Engineering



Energy



Mining



Transportation

1,500+ COMPANIES | 5,000 USERS | 70+ COUNTRIES

Call us Toll Free at **1.866.519.6222** or **1.604.519.6222** (International)

Email us at sales@softree.com | Visit us at www.softree.com



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