

SOLE ROAD DESIGN

The Complete Road Design & Survey Solution

Horizontal & Vertical Curves, Cross Sections & Engineering Workflows

Overview

SOLE Road Design (SRD) is a highly interactive road design and survey software that automatically generates both horizontal and vertical curves as per IRC code. It covers all survey & planning requirements including contour, traverse, road design, route survey, topographical survey, revenue survey, mining, city survey, railways, canal, airfield runways, pipeline and more. Built with modern programming tools and planning techniques, it delivers top-quality results through a well-designed interface that brings entire jobs to completion with just a few clicks.



Horizontal & Vertical Curves

Auto-generate curves per IRC code with super elevation



Smooth Contour Generation

Draw contours at user-defined intervals instantly



Cross Section & Quantity

Unlimited layers with verified quantity sheets



DTM Plan Generation

Customized DTM plans on user-defined preferences



L-Section Drawing

Longitude section with auto plan generation



Full AutoCAD Support

Open, edit & save .DWG files natively

Applications

- ◆ Road Design & Route Survey
- ◆ Topographical & Revenue Survey
- ◆ Mining & Canal Engineering
- ◆ Railways & Airfield Runways
- ◆ Pipeline & City Survey
- ◆ Highway & Infrastructure

1 Road Curve Design

- ◆ Automatically generates Horizontal & Vertical curve as per IRC code
- ◆ Export road formation level to implement/verify level at site
- ◆ Generates all critical values of road design parameters
- ◆ Super elevations and widening calculation
- ◆ Design new project or improve existing road curve

2 Survey & Contour

- ◆ Template-based survey software with traverse & contour
- ◆ Work on variety of survey data without any limit
- ◆ PCC (Profile Corrective Course) support
- ◆ Draw smooth contour at user-defined intervals with unmatched speed
- ◆ Draw customized DTM Plans on user-defined preferences

3 Cross Section & Earthwork Quantity

- ◆ Draw Cross Sections with unlimited number of layers
- ◆ Calculate quantity based on user preferences with verification
- ◆ Use unlimited number of user-defined templates in cross sections
- ◆ User-defined side slopes with berms
- ◆ Drainage and retaining wall design support
- ◆ Earthwork volume calculation with Cut & Fill analysis

4 CAD Integration & Output

- ◆ Full AutoCAD support — open, edit & save .DWG files
- ◆ Unlimited number of work layers for design requirements
- ◆ Works with any printer & plotter with print preview
- ◆ Auto Print facility for batch printing with user preferences
- ◆ Full featured CAD Editor with comprehensive drafting tools
- ◆ Longitude Section (L-Section) with auto plan generation

Industry Coverage

Infrastructure: Road Design, Route Survey, Pipeline

Land & Revenue: Topographical, Revenue & City Survey

Heavy Engineering: Mining, Railways, Canal, Airfield Runways

File Support: .DWG files — open, edit & save natively

Complete Road Design Suite

The only software that covers all road design & survey requirements — from horizontal & vertical curves to cross sections, contour, and earthwork — eliminating the need for multiple tools.

IRC Standards & Accuracy

Auto-generates curves as per IRC code, with super elevation and widening calculations. Export formation levels for site verification — ensuring precision and compliance.

Effortless & Intuitive

A well-designed interface and comprehensive features bring entire jobs to completion with just a few clicks. New users can be productive from day one.

Future-Proof Technology

Built with modern programming tools and an evolved architecture, SOLE Road Design is designed to grow with emerging technologies and your evolving project needs.

Who It's For

- ◆ Civil Engineers & Road Design Professionals
- ◆ Highway & Infrastructure Departments
- ◆ Land Surveyors & Survey Consultants
- ◆ Mining & Heavy Infrastructure Teams
- ◆ Government & Municipal Planning Departments
- ◆ Construction & Earthwork Contractors

Get Started with SOLE Road Design

Ready to transform your road design & survey workflows? [Contact us today.](#)

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