

SOLE CANAL

Canal Design, Sections & Quantity Software

Cross Sections, L-Sections, Earthwork Quantity & Template-Based Design

Overview

SOLE Canal is a comprehensive software for canal design that generates cross sections, L-sections and calculates earthwork quantity. Built on a template-based approach, users simply specify the general details of the canal and the project is completed with ease. The powerful template editor includes all canal parameters — bed width, full supply depth, free board, dowel, canal bank, service road, custom slopes, hearthing, casing, COT, concreting, CNS and more. SOLE Canal handles quantity calculation during execution of work or at the design stage.

Template-Based Design

Powerful template editor with all canal parameters

Cross Section Generation

Generate detailed cross sections with custom slopes

L-Section Generation

Complete longitude section with formation marking

Quantity Calculation

Earthwork quantity with verification sheets

Drainage System Design

User-defined drainage with inner/outer slopes

Full AutoCAD Support

Open, edit & save .DWG files natively

Applications

>> Irrigation Canal Design

>> Drainage Canal Projects

>> Water Resource Engineering

>> Earthwork Estimation

>> Canal Rehabilitation

>> Infrastructure Planning

1 Canal Template Design

- >> Template-based canal software for rapid project setup
- >> Specify bed width, full supply depth, free board & dowel
- >> Configure canal bank, service road & custom slopes
- >> Include hearing, casing, COT, concreting & CNS components
- >> Design new canal or modify existing canal parameters

2 Sections & Formation

- >> Generate detailed L-Section for canal alignment
- >> Generate cross sections with custom inner & outer slopes
- >> Directly mark formation levels on L-Section
- >> User-defined drainage system integration
- >> Automatic plan generation on section drawings

3 Quantity & Verification

- >> Calculate earthwork quantity at design or execution stage
- >> Quantity calculation sheet with built-in verification
- >> Cut & fill volume analysis for accurate estimation
- >> Template-based quantity computation for consistency
- >> Export detailed quantity reports for billing

4 CAD Integration & Output

- >> Full AutoCAD support — open, edit & save .DWG files
- >> Full featured CAD Editor with all drafting tools
- >> Works with any printer & plotter with print preview
- >> Auto Print facility for batch printing
- >> Modern code for future-proof development

Industry Coverage

Irrigation: Canal Design, Sections & Quantity

Infrastructure: Water Resources & Canal Rehab

Drainage: Drainage Canal & Earthwork Analysis

Output: AutoCAD .DWG, Print & Reports

Complete Canal Design Suite

The only software that handles entire canal projects — from template-based design and section generation to earthwork quantity calculation and verification, all in one package.

Template-Based Precision

The powerful template editor covers every canal component — bed width, FSL depth, free board, slopes, hearting, casing, COT, CNS and more, ensuring accurate and consistent designs.

Effortless & Intuitive

Simply specify general canal details and the project is completed with ease. Generate cross sections, L-sections and quantity sheets with just a few clicks.

Future-Proof Technology

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

Who It's For

- >> Irrigation Engineers & Canal Designers
- >> Water Resource & Drainage Departments
- >> Civil Engineers & Infrastructure Consultants
- >> Government Irrigation Departments
- >> Construction & Earthwork Contractors
- >> Project Managers & Estimators

Get Started with SOLE Canal

Ready to transform your canal design workflows? Contact us today.

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