

MineScape Haul Roads

MineScape Haul Roads enables the design of mining roads along any surface.

Cuts and fills are generated as required while maintaining grade and curve specifications. Cross-sections and volumes are generated to allow the optimization of road placement and estimation of construction costs.

The features

Interactive design capabilities

Easily generates complex designs, beginning with a simple line string representing a proposed centerline. The design can then be interactively manipulated and enhanced using MineScape's graphical tools. A status form and menu structure provides an easy step-by-step guide to full featured designs.

Input data

Permits input design features, such as super elevated corners, vertical and horizontal radius of curvature, transition curves, chainage points, edge drains, safety berms and sub-base location, to be processed.

Fully user-defined

Allows full user definition of road width, cross fall, cut angles, fill repose angles, bench height, and widths, and vertical and horizontal radius of curvature. The design can be manipulated and enhanced using the wide range of tools and functions.

Visualization

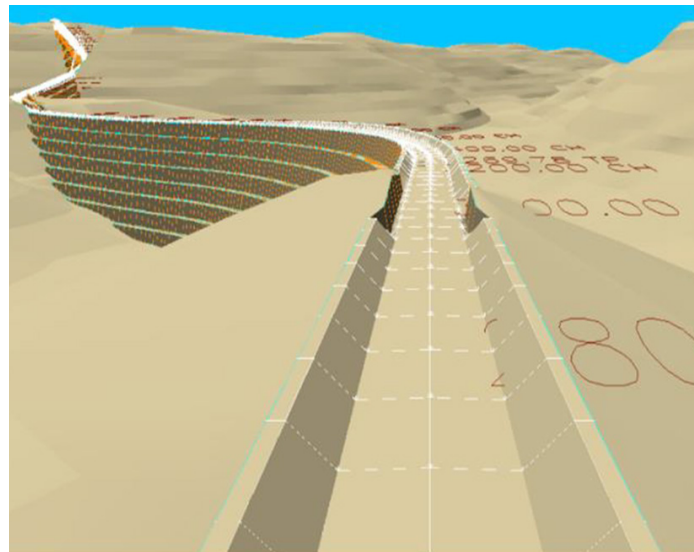
Uses powerful CAD functionality enabling the final design to be triangulated to give a dramatic 3D representation of the new road cut into the landscape. This can then be rotated, scaled and coloured to suit your requirements.

Safety settings

Provides alerts to excessive design parameters such as maximum grade or curve settings. Additional functionality allows the design to be sectioned and reported for volume, area and by portion.

Uses any surface

Any MineScape surface can be used. Appropriate road cuttings and infill to maintain the desired grade settings are created. Typical surfaces are topography, pit design surface and spoil. Can be used as an alternative to the ramp design package to design in-pit roads.



Multiple report formats

Generates reports as text or graphical cross-sections to provide a range of instruction formats for survey and construction personnel.

The benefits

Intuitive

Even with limited experience, complex designs can be produced easily, staff become quickly more productive.

Increased effectiveness

Provides a graphical output that is a compelling visualization tool for all contractors, miners and mine planning personnel.

Efficient

Applies templates and other design specifications quickly to generate a complex road surface. Cut and fill with benches are generated in a few simple steps. All user-defined aspects can be applied to multiple road designs.

Optimization

Allows multiple road design scenario testing. Easy generation of alternate routes enables optimization and provides the means to make informed, cost-effective road planning decisions.

Contact us

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