INTERACTIVE ROAD DESIGN
Interactive Road Design (Iroad) in Vulcan helps plan, design and construct road systems. With a few clicks of a mouse button you can design a road with balanced cut and fill.

**HOW DOES IT WORK?**

**INPUT**
Iroad designs a road from a digitised line in Vulcan. The software takes into account your specifications as well as the terrain on which the road will lie.

Data input includes:
- Different sub-surfaces to optimise excavation
- Topography wireframe to ensure cut and fill considers existing topography

**OUTPUT**
Iroad produces the road alignment and reports on the earthworks required to build the road.

Reports include:
- Multiple plotting options
- Plan view
- Horizontal alignments
- Vertical alignments
- Cross-section intervals
- Chainage volumes
- Cut and fill volumes

**YOUR QUESTIONS ANSWERED**

How much setup work is required?
Simply digitise a line and a design is generated showing balanced cut and fill.

Can I use Iroad to design in-pit ramps?
Yes. Iroad is ideal for in-pit ramps and provides a comprehensive report for necessary earthworks.

Can I take into account material swell factor?
Yes. The bulking option allows you to set a default bulking factor to be used in the cut and fill volume calculations.

Can I view the road from the perspective of the vehicle?
Yes. The animation feature allows you to view the road from the perspective of the vehicle.