Balfour Beatty
Rail

Laser Rail
DesignRoute™
*Track Design Software*

DesignRoute™

DesignRoute™ is a visual package producing both vertical and horizontal designs rapidly and efficiently.

Vertical designs are performed by fitting a series of straight lines and intersection points to a graph.

Horizontal designs are performed by detecting changes of radius, fitting constant curves and transitions.

Key Benefits and Added Value

- Software package providing efficient and time saving functionality when carrying out vertical and horizontal plain line designs

- **DesignRoute™** reduces the need for multiple spreadsheet systems as all functionality is encompassed in one system

- **DesignRoute™** incorporates a number of time-saving benefits compared to other systems, such as a fast operating speed and simple operation

- The maintenance costs of the system are much more favourable than similar systems

- The option is available to purchase either a joint Horizontal and Vertical licence or separate licences
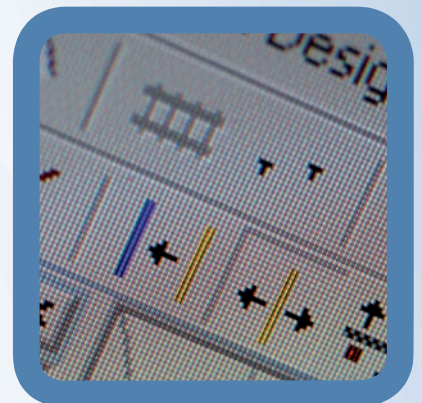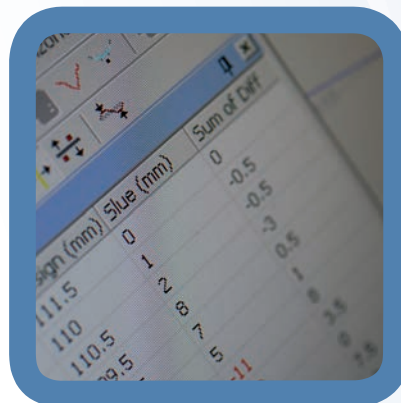
Additional Features

Vertical Track Design

- Automatically updated viewer for lift/lower

- Parameter listings for each intersection point/vertical curve

- Automatic checking against design limitations and constraints

- Option to use normal/exceptional/user defined design limits

- Interactive viewer showing existing and design versines

Horizontal Track Design

- Horizontal design operates using Hallade rules and methodology

- Parameter listings for each curve/straight/transition

- Automatic checking against design limitations and constraints

- Option to use normal/exceptional/user defined design limits

- Option to recant or retain existing cants

Inputs

- Data may be taken from a variety of sources, such as optical levels and Hallade surveys

- Manually surveyed data may be entered using simple input forms

Outputs

- *DesignRoute™* provides both graphical and numerical output

- The graphical output can be plotted directly or saved as a .dxf file

  ### Vertical Track Design

- Existing level, new level and lift or lower required at each survey point

  ### Horizontal Track Design

- Existing versine, design versine and slue at each survey point

- Existing cant, design cant, cant deficiency and equilibrium cant at each point

- 6' offsets for multiple rail design

DesignRoute™

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