

Trimble Access Software: GENIO Roads

Key Features

Streamlined workflow

The most powerful road stakeout software on the market

Customizable staked delta reporting

Fully customizable outputs and reports

Finish Roading Jobs Fast

Streamlined Workflow

The streamlined workflow for Trimble® Access™ Roads adds powerful tools to simplify road stakeout. The step-by-step approach guides you with minimal training, providing all the tools at your fingertips to complete a road stakeout project. All the other non-road stakeout functionality is also easily accessible from General Survey—if you need it.

Define Your Road

Upload a GENIO road definition file from Trimble Business Center software or popular 3rd-party roading applications such as Bentley® MXROAD® or 12d® Model™. Define roads from the GENIO file, and create new road strings.

The graphical interface allows you to easily check the road design before you start staking. And if you are using a supported Tablet, check your road in 3D.

Stakeout Road

The powerful graphical selection screen provides an intuitive workflow. Construction offsets, slope staking, and real-time in-the-field redesign allow fast and easy stakeout with confidence.

Precise elevation road stakeout allows you to perform dual measurements with a robotic total station and GNSS receiver at the same time using the GNSS receiver for easy horizontal control, and the robotic instrument to improve the vertical precision.

Output and Reports

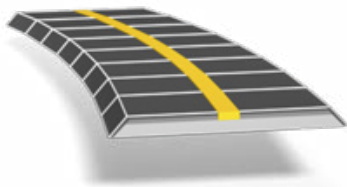
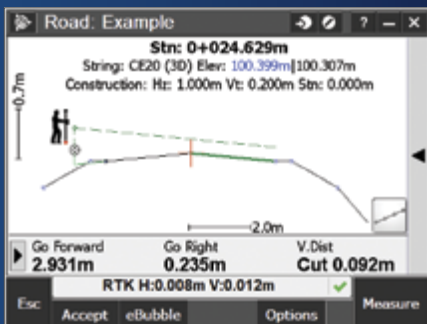
Generate customized reports for surveyed road data on the controller while in the field.

Use these reports to check data in the field, or to transfer from the field to your client or to the office for further processing with the office software.

Designed for Demanding Customer Requirements

Trimble Access Roads is the ideal application for the construction surveyor who stakes GENIO roads and requires:

- Flexible software
- An extensive range of powerful stakeout routines
- Easy-to-use road stakeout software that you can learn to be productive with after just a few hours of use

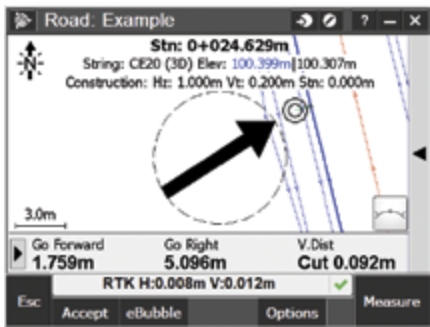


Learn more at:

<http://apps.trimbleaccess.com>

Define the Road

Feature	Details
String Selection	<ul style="list-style-type: none"> Graphical List
New Strings	<ul style="list-style-type: none"> Created by copying an existing string using one of the following methods: <ul style="list-style-type: none"> Offset and cross slope Offset and vertical difference Offset and calculated slope
Review	<ul style="list-style-type: none"> Graphically including browsing: <ul style="list-style-type: none"> Plan Cross section 3D including drive through (Supported Tablets only)



Staking by Station on string with a horizontal construction offset

For information on Trimble and LandXML roads see the Trimble and LandXML Roads Techsheet.

Survey the Road

Feature	Details
Station on a String	<ul style="list-style-type: none"> Provides left/right as well as delta station navigation details to a selected station on a string. Includes side slope staking – also known as batter setout. Supports: <ul style="list-style-type: none"> Storage of both the catch and construction offset if required Editing of the elevation Editing of the side slope during stakeout by modifying the slope values or the hinge position
Relative to Road	<ul style="list-style-type: none"> Reports the station and offset of your current position relative to the master string and the cut/fill value to the road surface
Relative to String	<ul style="list-style-type: none"> Provides left/right delta navigation to a selected string and reports current station
Subgrade	<ul style="list-style-type: none"> Stake a subgrade surface defined parallel to and offset from a line between two strings
Secondary Road	<ul style="list-style-type: none"> Enables stakeout details from a secondary road to be referenced to a position being staked on a primary (current) road
Construction Offsets	<ul style="list-style-type: none"> Horizontal offsets can be applied: <ul style="list-style-type: none"> Horizontal At the slope of the line from the previous string to the current string in the cross section At the slope of the line from the current string to the next string in the cross section At your current position (Calculated) Vertical offsets can be applied: <ul style="list-style-type: none"> Vertically Perpendicular to the line in the cross section before the string being staked Station offsets can be applied: <ul style="list-style-type: none"> Forward (increasing station) Backward (decreasing station)
Cross Slope	<ul style="list-style-type: none"> Markup on one stake the cut/fill delta for both the left and right projected carriageway/travel way in a single operation Use to check construction
As-staked Reporting	<ul style="list-style-type: none"> Customizable reporting of stakeout deltas
Precise Elevation	<ul style="list-style-type: none"> In an integrated survey this provides: <ul style="list-style-type: none"> Horizontal navigation using GNSS and elevation navigation using a robotic total station Dual measurement from both sensors at the same time A GNSS position plus total station position are stored, as well as a combined position
Reports	<ul style="list-style-type: none"> Fully customizable reporting of the surveyed road, including cut-sheet reports – sometimes known as conformance reports

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