



SURFACE SYSTEMS & INSTRUMENTS, INC.

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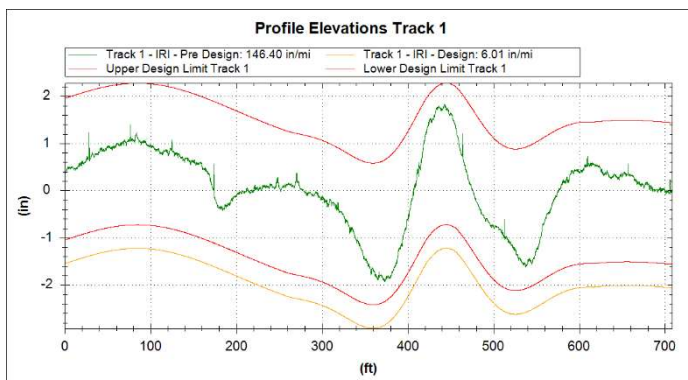
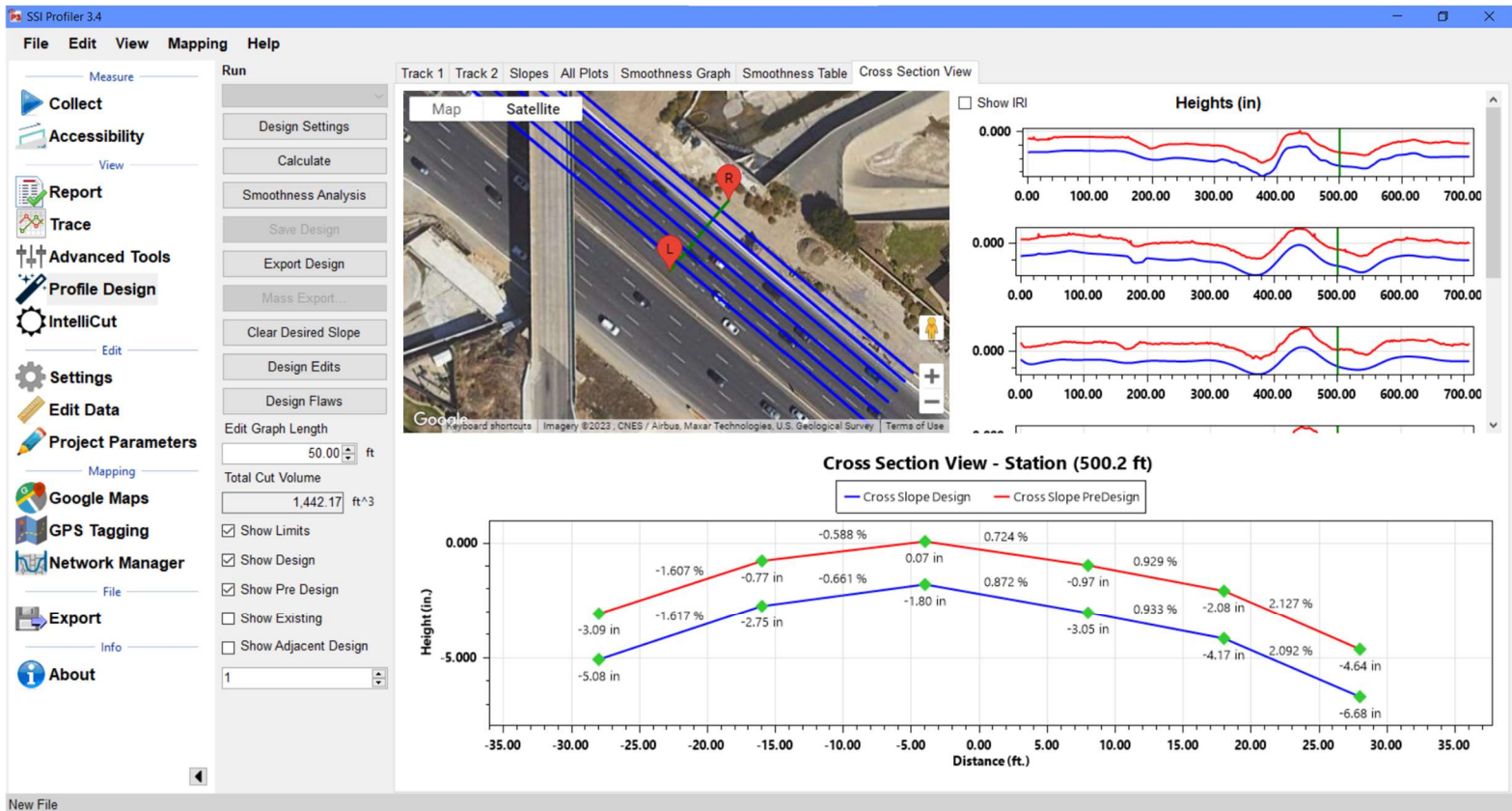
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Custom Test Equipment • Mobile Technology Solutions • FF/FL • Road Profilers • Panasonic Toughbooks

SSI PROFILE DESIGN

Create 2D or 3D Machine Control Models with Profile Data



IRI Based Models

Change Variables to View New IRI Values

Fix or Correct Cross-Slope

Import SSI RSD Data or Surveyed Lines

Export Models to PNEZD or Meshes

Use 2D or 3D Survey Elevations

Simple, Standard Cut Volumes

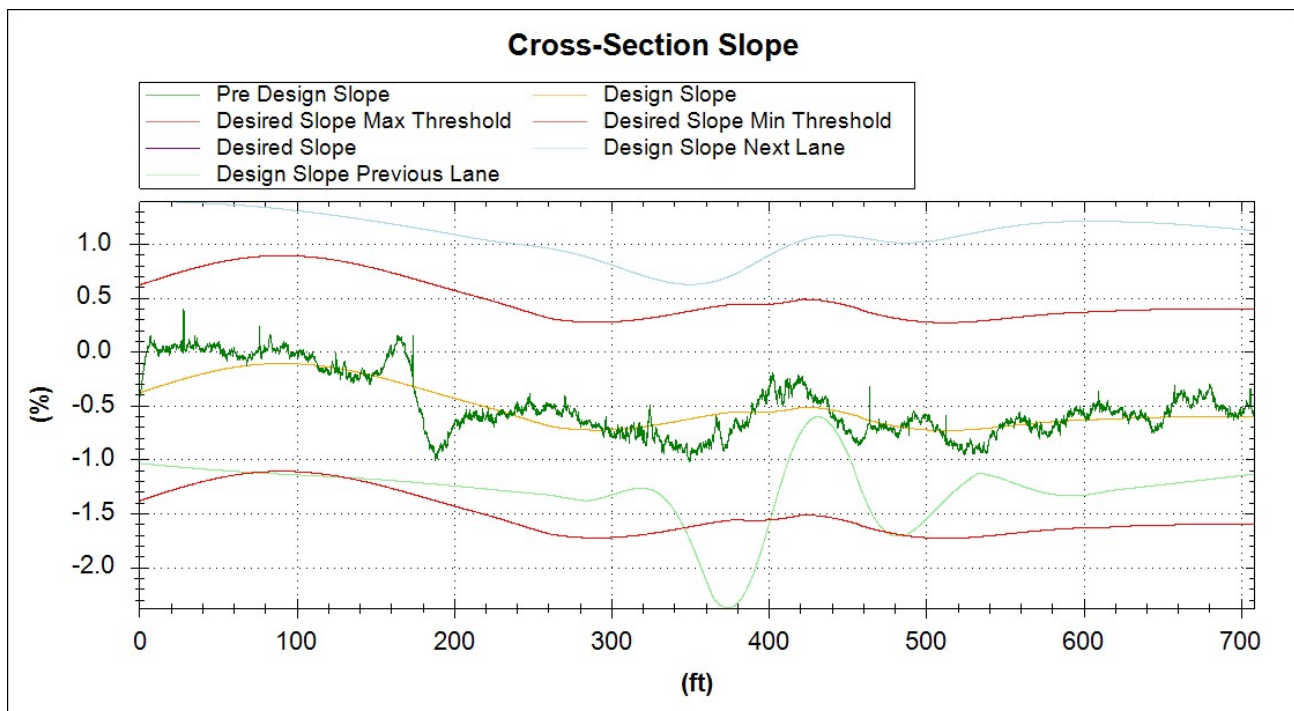
No Manual Cross-Section Editing Needed



SSI Profile Design Modeling and Design

Profile Design

- Use inertial profiler data to create smooth models
- 2D or 3D paving and milling models
 - Depends on the imported data source
- Variable depth milling or paving models. Confines model to inputted constraints
- Input cross slope thresholds and paving/cut depth
 - Program will report the best possible IRI based on inputted constraints
- Simple to reprocess models for different scenarios to
- Add constraints for cut depth or slope for fixed design areas (drainage, intersections)
- Edit cut depth or slope thresholds until optimal smoothness and cross slope is achieved
- Design multiple lines at once or use dual wheelpath RSD data files
- Export to PNEZD, CSV, DXF, meshes
- Report cross slope results in clear, easy to interpret graphs and maps
- Can use dual laser inertial profiler with IMU
 - Can easily retrofit existing systems
- Extracted lines can be sourced from SSI's CS9500 and CS9550 scanners or other comparable devices
- Simple volume reporting that does not require cut/fill analysis per cross-section.
- Report IRI and PRI pre-model and post-model results



Plots for Longitudinal Slope with User Tolerances

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