



TcpGPS for Android

Unit 8. Roads



Unit 8. Roads (Pro Version)

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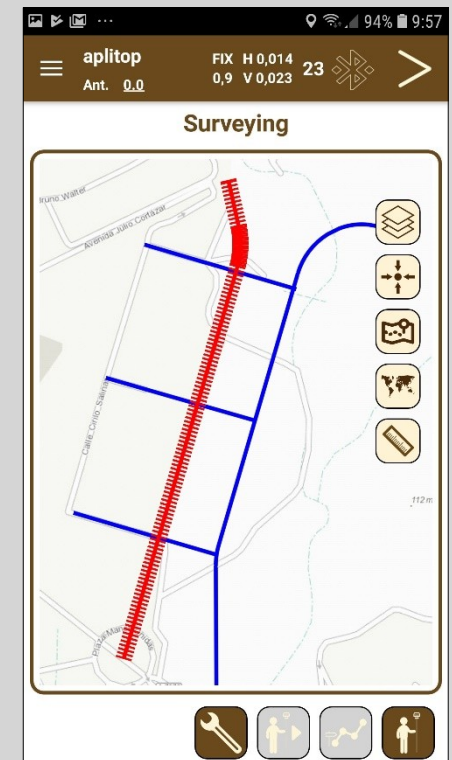
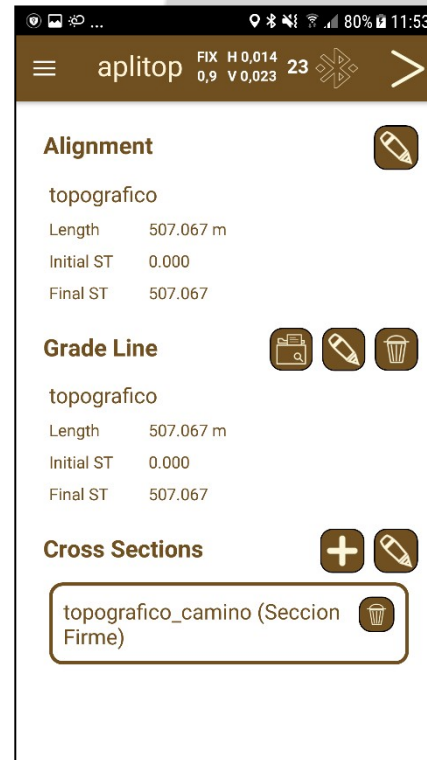
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Road Components

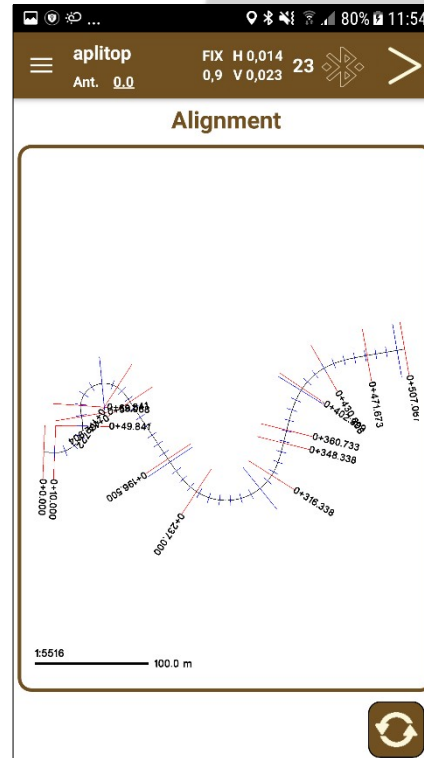
- A project can have several roads
- Import from files
 - LandXML
 - Aplitop TcpMDT
- Road components
 - Horizontal alignment
 - Vertical alignment
 - Cross sections

Video 



Horizontal Alignments

- Graphic and parametric views
- Circular and clothoids transition curves



Type	ST	X	Y
Line	0.000	335085.958	4084594.132
Curve	10.000	335095.950	4084593.749
Clothoid	49.841	335121.906	4084618.342
Clothoid	58.841	335120.969	4084627.280
Curve	69.068	335120.082	4084637.444
Clothoid	114.722	335153.947	4084654.444
Line	132.904	335165.882	4084640.910
Clothoid	196.500	335201.010	4084587.897
Curve	237.000	335227.521	4084557.670
Clothoid	316.338	335297.187	4084572.722
Line	348.338	335308.146	4084602.632

Video 

Vertical Alignments

- Graphic and parametric views
- Circular or parabolic transition curves

Video 



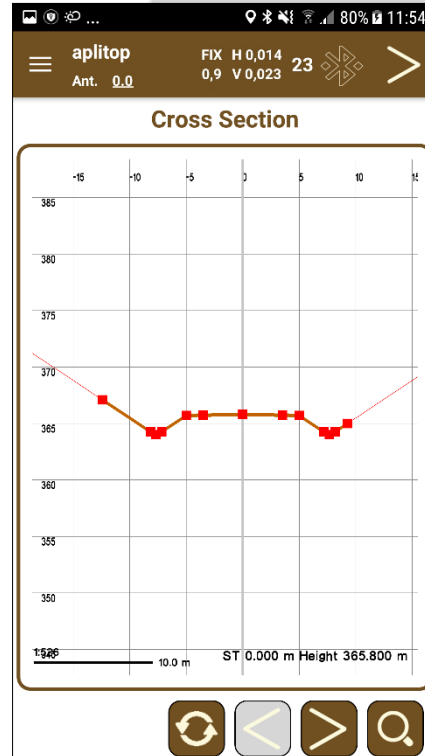
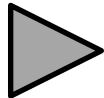
Grade Line

ST	Height	Kv	Tangent	Ar
0.000	365.800	0.000	0.000	0.000
79.000	372.000	889.998	64.744	2.35
167.000	346.000	260.002	23.961	1.10
507.067	350.700	0.000	0.000	0.000

Cross Sections

- Multiple layers for each alignment
- Optional codes for vertices

Video



Distance	Height	Code
-9.616	347.541	169
-7.100	345.864	80
-5.000	347.264	45
-3.500	347.264	30
0.000	347.264	0
3.500	347.194	30
5.000	347.164	45
7.165	345.720	80

Stake out Roads (1)

- Station (chainage) interval
- Working modes
 - Station and offset
 - Station and code

The screenshot shows the 'Roads Stake Out' screen in the aplitop application. The top status bar displays the time as 11:54 and battery at 80%. The app header shows 'aplitop' with 'Ant. 0.0' and 'FIX H 0,014 0,9 V 0,023 23'. The main content area is titled 'Roads Stake Out' and includes the following settings:

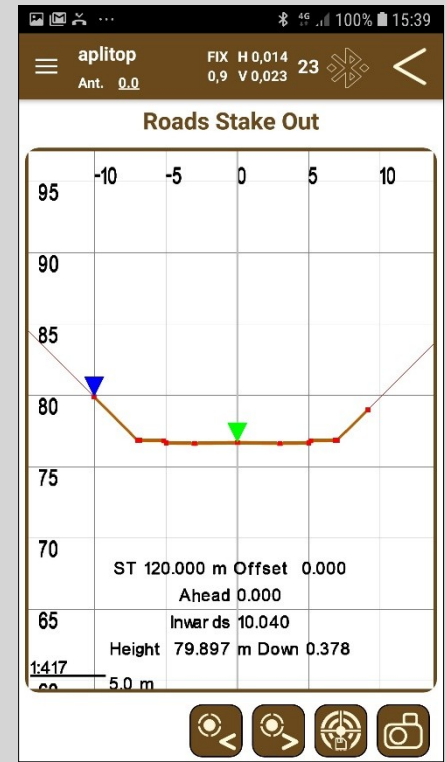
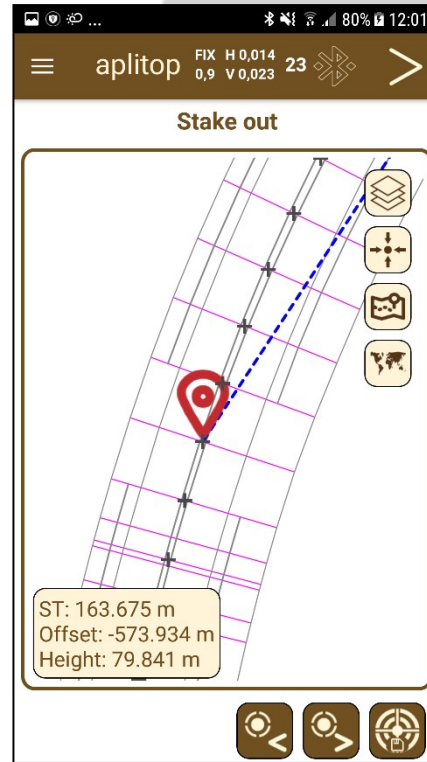
- Horizontal Alignment: topografico
- Initial ST: 30.000
- Interval: Interval 5.000
- Singular points: Singular points
- Mode: ST & Offset, ST & Code

A 'Cross Section' section is also visible, showing 'topografico_camino (Seccion Firme)' and an 'Offset' of 0. A compass icon is located at the bottom right of the screen.

Stake out Roads (2)

- Top and front views
- Information
 - Station
 - Offset
 - Elevation
 - Ahead/Back
 - Inwards/Outwards
 - Up/Down

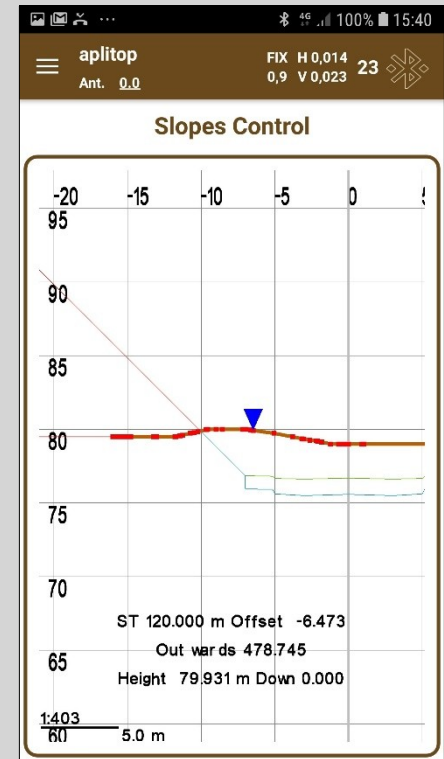
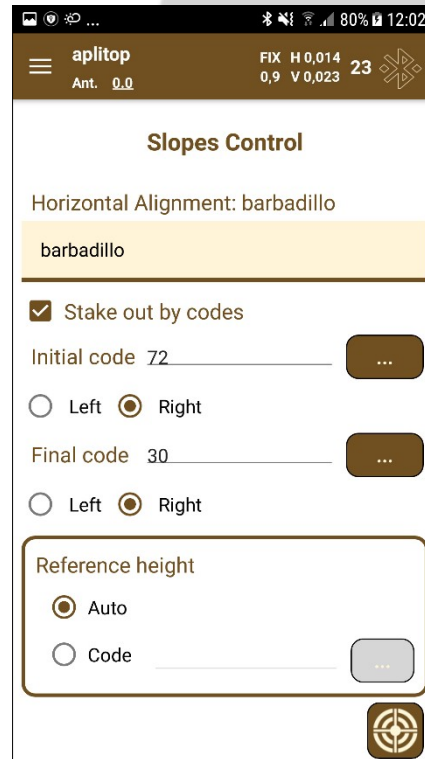
Video 



Slope Control

- Working mode
 - Automatic
 - Cross-sections vertex codes
- Information
 - Station
 - Offset
 - Elevation
 - Inwards/Outwards
 - Up/Down

Video 



Surface Analysis

- Load surface
 - LandXML
 - DXF with 3D Faces
- Information
 - Current Elevation
 - Elevation Difference

Video 

