

The system below provides the following functionality:

- 1) Overlay image of road surface type data (This example is Gravel Roads in Indiana). This data is presented over top of a Google Map.
- 2) Capability to create a GPS Route on top of the map.
- 3) Ability to down load (in standard GPX format) the created route (up to 1000 waypoints).
- 4) End user is able to load a pre-existing GPX file to display over top of the overlay of data.

The following images show the road surface type overlay data on top of three different Google map types:

- 1) Standard (Map)
- 2) Satellite
- 3) Topographical

Back Roads GPS Route Planner - Mozilla Firefox

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file:///C:/temp/NewGPX_Tool/map.htm

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GPX Load Tools Help Roads Route Name: New Route Search: State AL 63 - Waypoints

To save, copy the text below, paste it into a text editor, and save from there.

```
<?xml version="1.0"?>
<gpx version="1.1"
  creator="Marengo Route Creator - http://www.marengo-ltd.com/map/"
  xmlns="http://www.topografix.com/GPX/1/1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.topografix.com/GPX/1/1
    http://www.topografix.com/GPX/1/1/gpx.xsd">
  <rte>
    <name>New Route</name>
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      <name>0</name>
    </rtept>
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      <name>1</name>
    </rtept>
    <rtept lat="38.20406000045745" lon="-86.12955093383789">
      <name>2</name>
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    <rtept lat="38.20163187239859" lon="-86.13040924072266">
      <name>3</name>
    </rtept>
    <rtept lat="38.19852914647375" lon="-86.14208221435547">
      <name>4</name>
    </rtept>
    <rtept lat="38.184362848575866" lon="-86.16456985473633">
      <name>5</name>
    </rtept>
  </rte>
</gpx>
```

Strip Reverse Close

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Done

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Map Satellite Hybrid Terrain

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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.topografix.com/GPX/1/1
http://www.topografix.com/GPX/1/1/gpx.xsd">
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    http://www.topografix.com/GPX/1/1/gpx.xsd">
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