



# HGVSOLUTIONS.COM – QUICK START GUIDE CD ROM

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## STEP 1: A QUICK INTRO TO USING LOW BRIDGE POI

These instructions are for MS Autoroute versions 2005 to 2007

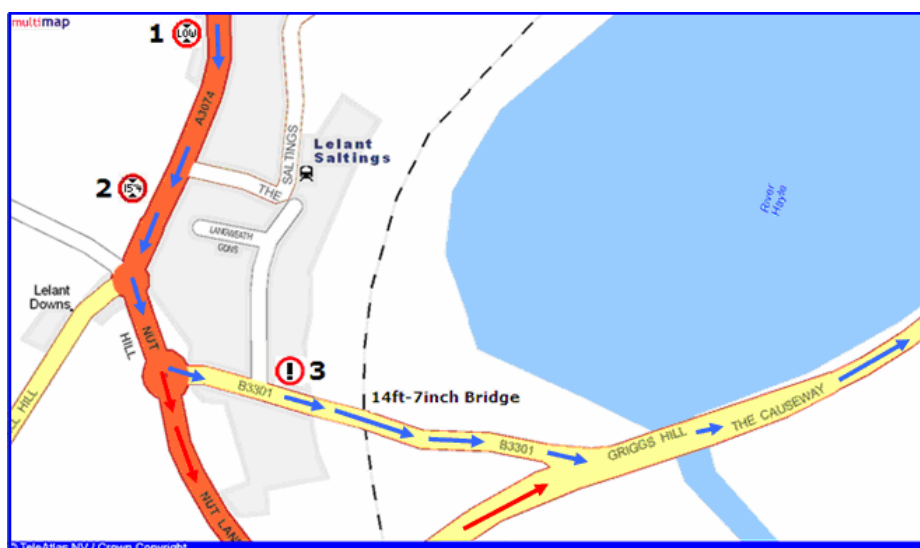
### Quick Overview

There are **5 easy steps** to using this Landis Media Ltd – Fleet and Low Bridge Data Download with Autoroute.

This first step introduces you to using Low Bridge POI data and an overview of the system in use. Make sure you read this step because the background given will help you decide which POI files you will need later. We give two **EXAMPLES** to demonstrate how in practice Low Bridge POI warnings work.

**NOTE:** The maps below are just for illustration purposes and not taken from Autoroute. You can see similar style maps on your Autoroute and this is demonstrated later.

**Example 1:** You have an HGV its got a 15ft 4inch cab height and your vehicle can't fit under the 14ft 7inch Low Bridge that's on the planned route ahead.



Please follow step by step what happens on the picture above:

- 📍 You follow the route that the Autoroute has planned (shown by the BLUE arrows)
- 📍 You are 2km from the Bridge at **Point 1** – you hear and see the POI alert for the All\_Low\_Bridges\_Data POI
- 📍 This warning tells you that a bridge is coming up and that you need to listen out carefully for further warnings over the next 2 KM. You continue to drive
- 📍 You are 1.5km from the Bridge at **Point 2** – you hear and see 15ft 4inch Low Bridge POI warning (for your cab height). You know your vehicle won't fit under the Bridge ahead and that you will need to choose a new route.
- 📍 You choose an alternative route using the Autoroute (shown by the RED arrows) and divert off the old route at Nut Hill roundabout. This takes you down Nut Lane and avoids the Low Bridge on the B3301 by the railway tunnel.
- 📍 You rejoin the planned main route (BLUE arrows) at Griggs Hill and continue your journey as planned.

**Example 2:** You are now in a truck with a 13ft 2inch cab height. You can easily fit under the 14ft 7inch Low Bridge that's on the planned route.



Please follow step by step what happens on the picture above:

- 📍 You are 2km from the Bridge at **Point 1** – you hear and see the POI alert for the All\_Low\_Bridges\_Data POI
- 📍 This warning tells you that a bridge is coming up and that you need to listen out carefully for further warnings over the next 2 KM. You continue to drive
- 📍 You are now 1.5km from the Bridge at **Point 2** – this time you don't hear or see any warning, why not? Your cab height in this example is 13ft 2inches and so will fit easily under the 14ft 7inch railway bridge ahead. Since you don't hear any warning you can keep driving confidently following the planned route (Blue arrows)
- 📍 You are now 100m from the Bridge at **Point 3** – you then hear and see the Alert\_Low\_Bridge\_Close POI warning. This tells you that you are 100m away from the Bridge and should reduce speed
- 📍 This warning is used as a safety feature in case of fog, bad road conditions, corners or temporary bridge height reductions (local council put scaffolding up)
- 📍 You drive under the bridge and continue on your planned route

**USER TIP:** These **examples** show that just **3 POI files** contain **all the information** needed to avoid every Low Bridge in the UK. A further total of 85 different CAB HEIGHTS are provided on the download from which each driver will choose just **the one** that corresponds to their Cab Height. This way you can cover every vehicle on the road, trucks, HGV, commercial, caravans, leisure vehicle etc. Remember you need in total just 3 POI files; **your Cab Height**, the **All Low Bridges** and **Alert Low Bridge Close** this will be important later when you are installing files.

## STEP 2: CHECKLIST OF SOFTWARE AND EQUIPMENT NEEDED

Please make sure that you have the following;

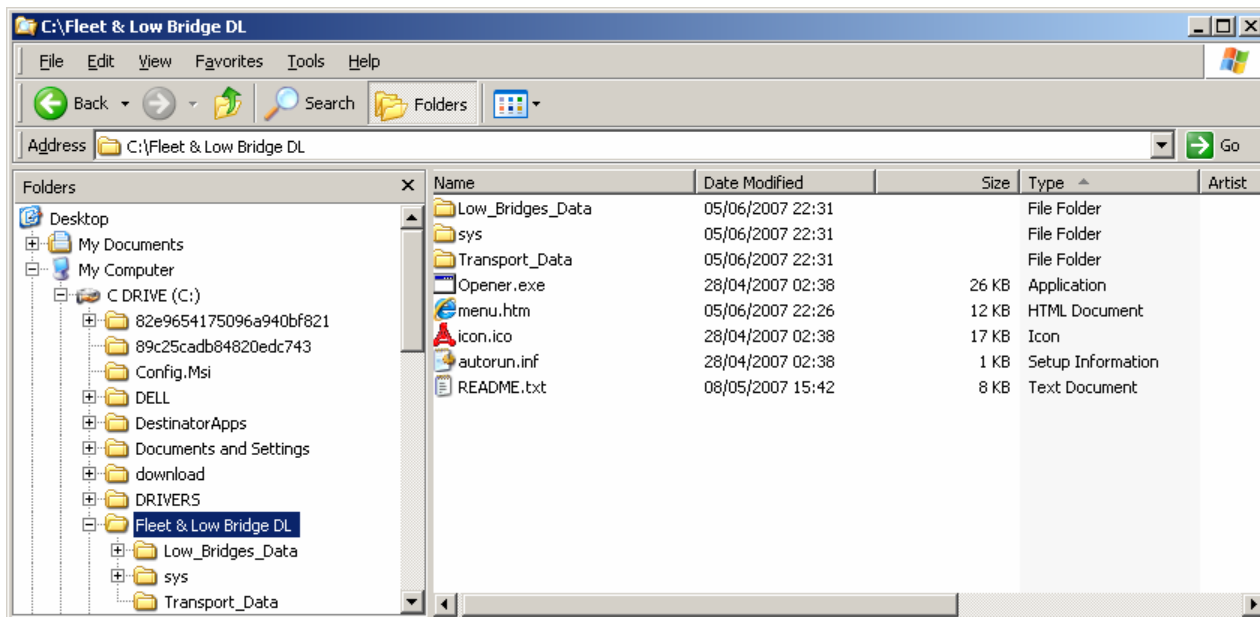
- 📍 A PC laptop or desktop running Windows XP
- 📍 Autoroute (2005 to 2007) on your PC
- 📍 The LANDIS MEDIA Ltd - Fleet & Low Bridge CD
- 📍 A note of your UNLOADED cab height

You need the latest copy of MS Autoroute software installed on your PC (as well as patches). Using an older version e.g. Autoroute 2005 is fine, just make sure its as up to date as it can be

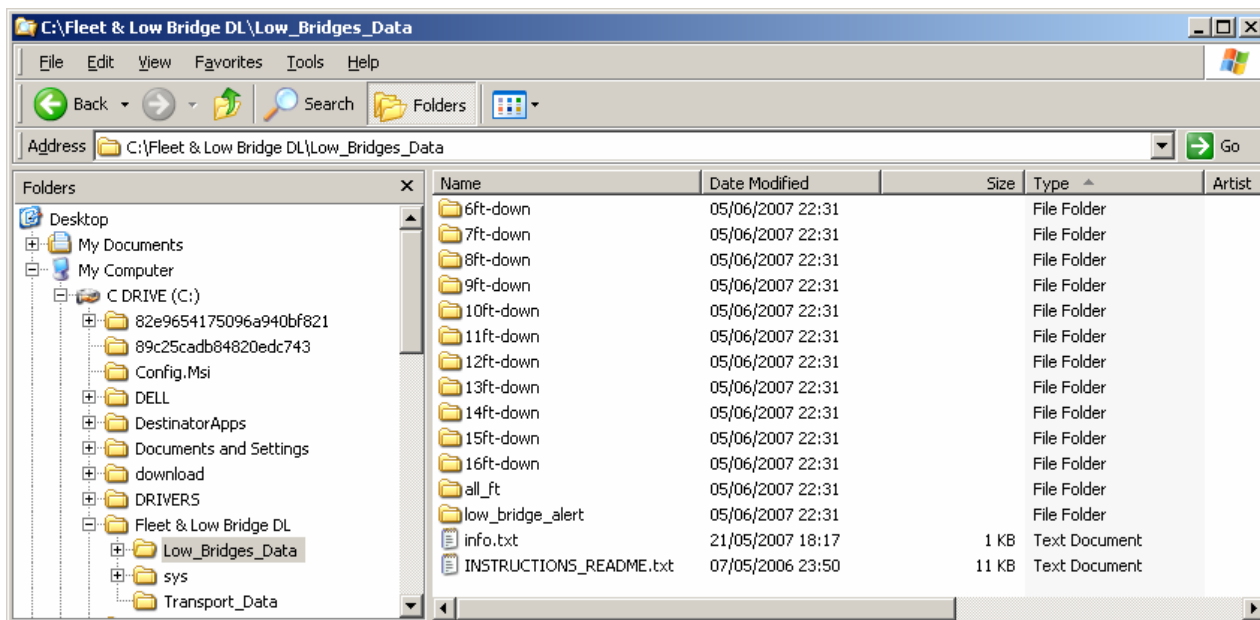
Finally please ensure you make a **BACKUP** – should anything go wrong then you can always restore it. Landis Media Ltd cannot be responsible if you make a mistake whilst installing POIs.

### STEP 3: USING AUTOROUTE AND CHOOSING THE LOW BRIDGE POI FILES

**NOTE:** You will need to UNZIP the file that you download and locate it somewhere easy to find. We suggest this is the top level of the C: drive, in which case you will have a folder called; C:\Fleet & Low Bridge DL with the contents mentioned below inside.



To use the data contained on the DOWNLOAD you will need to use 3 files in all, before we choose the files lets discuss how the data is stored. Below you can see the folder structure that you will find on the download.



We will discuss the contents of each folder;

**LOW BRIDGE ALERT** – this folder has the file **Alert\_Low\_Bridge\_Close.csv** inside (as well as a BMP image if required to style a pushpin etc. If you don't know what to do with it then just ignore it, as its surplus). The CSV file contains the same data exactly as the ALL\_FT folder. Basically there are two copies of the same data on the download – this is to help create a network of warnings if required. It has all UK low bridges from 16ft to 6ft - you will always want to load this file up as it has all the UK data in it.

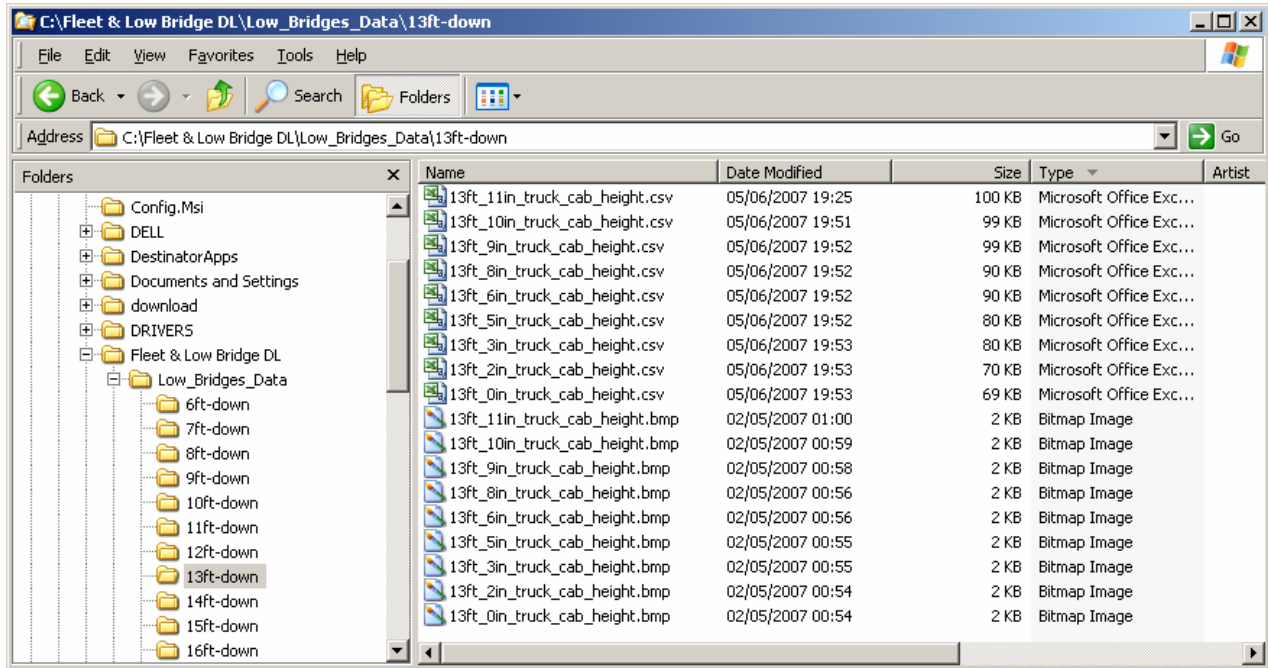
**ALL\_FT** folder contains the **All\_Low\_Bridges\_Data.csv** file (and BMP) as mentioned above. All that applies to the file above applies to this file. These two files are the ones that will always be used whatever scenario is decided upon.

The remaining folders contain a number of files in each folder – always following the format;

**xxft\_yyin\_truck\_cab\_height.csv**

where the xx is the feet and yy is the inches of the maximum height of the bridges within that file. Note that this **DOES NOT MEAN THAT ALL THE POI IN THAT FILE ARE THAT HEIGHT.**

The picture below shows a folder and the files of varying heights within it.



Some people get a little confused as this is slightly “counter intuitive”. So an example to illustrate; the file **15ft\_1in\_truck\_cab\_height.csv** – has bridges ranging from 15ft 1inch all the way down to 6 feet. The height shown is always the maximum height within that file.

This file would have then all the bridges with a height of 15ft 1 inch and **LOWER inside it.**

By using the correct choice of file – you can get away with **only loading 3 files** into Autoroute - plan routes for your vehicles. By having a file that has **all the bridges that you cannot go under** in it – gives you a big advantage. These files contents are a list of all the Low Bridges that you need to avoid for your truck height. So if I have a 13ft truck then I need the 13ft 0inch truck cab height file – as this will have all bridges from 13ft downwards. Or if your truck is 15ft 2inches – then all the bridges within the 15ft 2inch POI file will be ones that **YOU MUST AVOID.**

We have therefore created 85 files for every possible height for UK vehicles – so that you will have a file that has all **the bridges in the UK that you need to avoid inside it.** You don’t need to load up **lots of file heights** and start doing calculations – **just locate your cab height** load that file and you are good to go – that file has the bridges that will make your life difficult in one neat package.

We have of course provide the **All\_Low\_Bridges\_Data.csv & Alert\_Low\_Bridge\_Close.csv** files – so that you have **every UK low bridge** in case you need it, even ones that **you can travel under.** This gives you maximum flexibility then if you load all 3 POI files, you have;

1 file of all the bridges you need to avoid

2 files – of all the UK ,low bridges with all the heights – so you can run example and explore routes whilst knowing the heights of the bridges – and not miss any bridges. It will also allow you to look at “marginals” – where the tolerance of heights might allow you to risk a route (e.g. you find a 15ft 2inch bridge and your truck is 15ft 2inch high – you can make the call to risk trying that route).

#### **NOTE FOR CONTRACT DRIVERS**

The same principle applies just its extended. If for example you have 3 vehicles – using 14ft 2in , 13ft 6in and 15ft 4in then you would use the following files;

**13ft\_6in\_truck\_cab\_height.csv**

**14ft\_2in\_truck\_cab\_height.csv**

**15ft\_4in\_truck\_cab\_height.csv**

As well as of course the standard ones;

## All\_Low\_Bridges\_Data.csv & Alert\_Low\_Bridge\_Close.csv

Its important to note that you don't need to load **all 85 different height files** up to get the "full data" as each file contains a progressively smaller amount of data (as the heights go down). So the 14ft\_2in\_truck\_cab\_height.csv file contains all low bridge from 14ft 2 inches down to 6feet.

The reason that we created all 85 files was to have a height to match every vehicle so that only 1 file would be needed for avoidance. You can simply setup a route in autoroute that avoids that file. So if you are planning a route for your 14ft\_2inch HGV – then you would set a parameter to avoid the 14ft\_2in\_truck\_cab\_height pushpin – thus avoiding any bridge that the 14ft\_2in truck cannot drive under.

**SPECIAL NOTE:** You only need **your cab height** from the list of 85 different heights. The Alert and All Low Bridge POIs contain **every Low Bridge** in the UK anyway. The Cab Height file has all the Low Bridges that your vehicle will need to avoid, starting from your Cab Height downwards to 6 feet. Some people install **ALL 85 DIFFERENT CAB HEIGHTS** thinking that they need them all or will get "better" data. In fact doing this would **SLOW DOWN** your Autoroute down and even **STOP** the Low Bridge warnings working properly. All the data for the entire UK is already inside the 3 files you will install.

## STEP 4. SPECIFIC SETUP DETAILS

To install and use your new Autoroute POI's;

Locate the data that you require – the steps above give you an overview of the files you will need. In all likelihood you will want to install the two main files with all the UK data in them, and as many files as you need for the individual trucks you use. Thus if you use 4 trucks you would install the 4 truck height files plus the 2 standard files (with all the UK data).

The data is in CSV format on the download and is in separate directories. (see above steps)

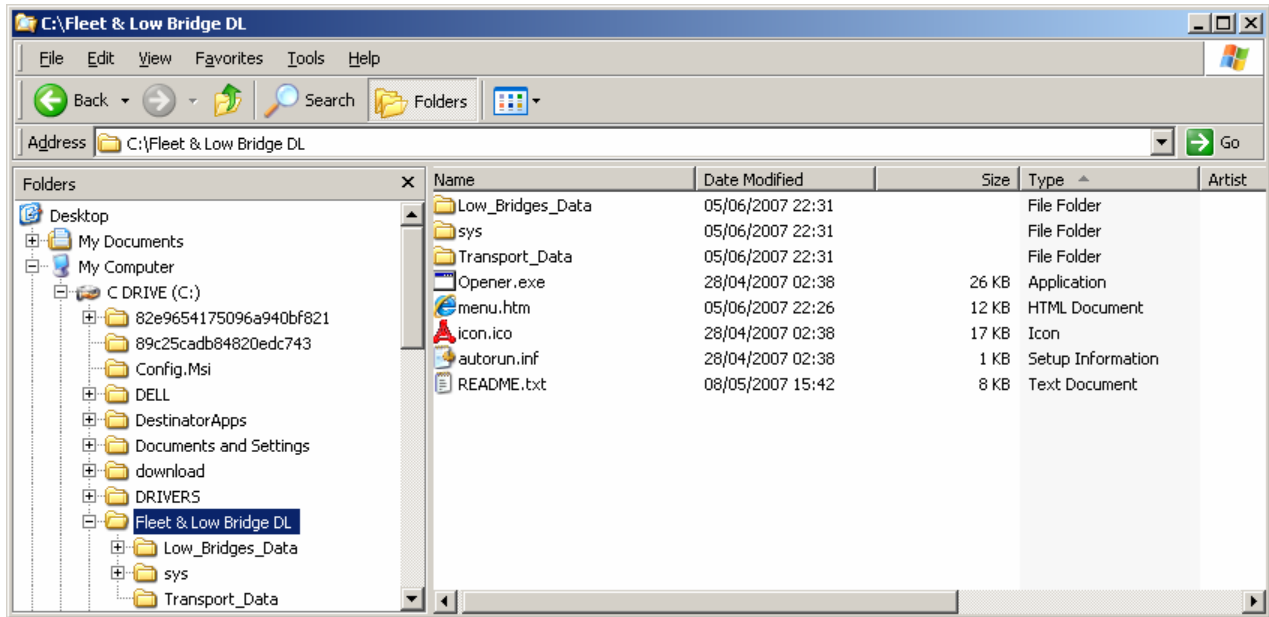
So now to start

1. Make sure the data is in a location that you can easily find – we recommend copying the files you need from the download to an easy to locate place – ready for use. You can skip this step if you understand file structures and copying.
2. Start up Autoroute (2005, 2006, 2007 etc)
3. Select the DATA menu from the menu bar
4. Select the IMPORT DATA WIZARD
5. Select using "file finder" the CSV file that's relevant (you will repeat this several times for all files)
6. Select the format as COMMA DELIMITED
7. The first column must be selected to be LATITUDE
8. The second column must be selected to LONGITUDE
9. The third columns to NAME
10. Click FINISH and the data will be imported into Autoroute as PUSHpins

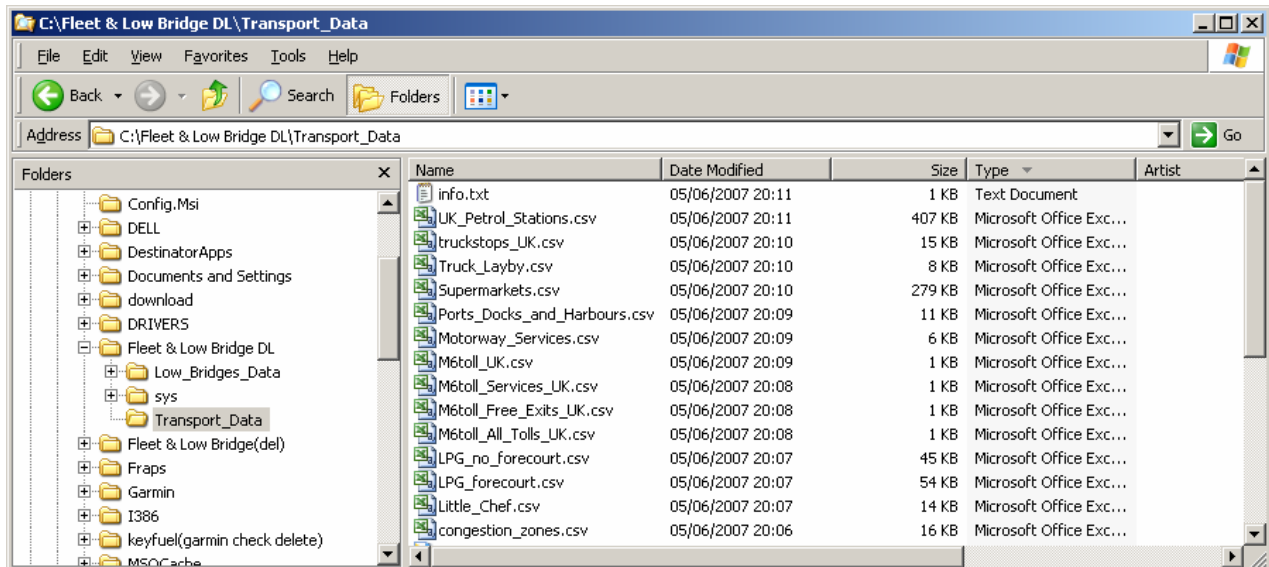
You now have a set of POI pushpins within Autoroute that you can use for a number of routing tasks, avoiding and locating them as POI's. All the normal Pushpin function will operate for these POI's – see the Autoroute manual for more info on using and routing.

## STEP 5. OTHER TRANSPORT DATA

We have also included on the download some other useful transport data, This is in the other directory called TRANSPORT\_DATA on the CD ROM (shown below). You will now want to open up that folder – to see a list of CSV files and the BMP images for the icons below.



Just repeat the steps above for installing the Low Bridges. Below you can see all of the transport files in the Transport\_Data folder.



If you have a more complex query or are getting stuck at a particular point you can always contact us at [helpdesk@tomtompoi.net](mailto:helpdesk@tomtompoi.net)