City of Melbourne Pedestrian Network Metadata

The pedestrian network is made up of the following layers:

Pedestrian network

Is a vector layer containing footpaths, as well as all the possible links (entrance and centroid connectors) pedestrians can use to reach the properties (centroids). It contains 7 fields.

Type

Identifies the type of link, the table below describes the categories of each class code and the attribute used in the cost field for the route modelling

Type	Description	suggested modeling cost
1	Pedestrian Footpath	object length /4km per hour
2	Pedestrian Long wait crossing	30 (seconds)
3	Short wait crossing	15 (seconds)
4	Zebra	object length /4km per hour
5	Tram crossing	object length /4km per hour
6	Arcade	object length /4km per hour
7	Lane	object length /4km per hour
91	Entrance connector	0
92	Centroid connector	500 (minutes)

MCCID

Utilized to identify the corresponding ID of the footpath feature from the assets database. This data was incorporated only for the links located in high traffic areas, as these are the areas where the double lined footpaths are located in the network.

MCCIDA & MCCIDB

Utilized to identify the correspondent ID of the footpath feature from the assets database. This data was incorporated for the links located in the CBD's low traffic areas, which are represented by a single line in the model. Each field represents the id of the corresponding footpath (A – upper, B - lower) on each side of the road.

OTime & CTime

Are fields created to represent opening and closing times of different points in the network. As there was no available data, a default value of 7AM OTime and 9PM CTime, was assigned to all the links

located inside of a private property, with the intention that the CoM will update and maintain this dataset in the future.

Cost

Is a costing that aggregates the suggested modelling cost in minutes.

Cadastral centroids

Is a point layer used to represents each parcel identified in the CoM property boundaries dataset.

The network setting includes

- Global right turns restrictions: 15 seconds for left and right turns to make the modelling more realistic.
- Direction penalty: a 500 minute penalty associated with type 92 property connectors. This was done in order to prevent the software from taking “shortcuts” by going through private properties. At the end of your calculations, you will need to subtract 500 minutes from the results for each 92 property used.