

Castle Street

Supplementary Information



Castle Street: Permanent Scheme

Sustainable Drainage Systems

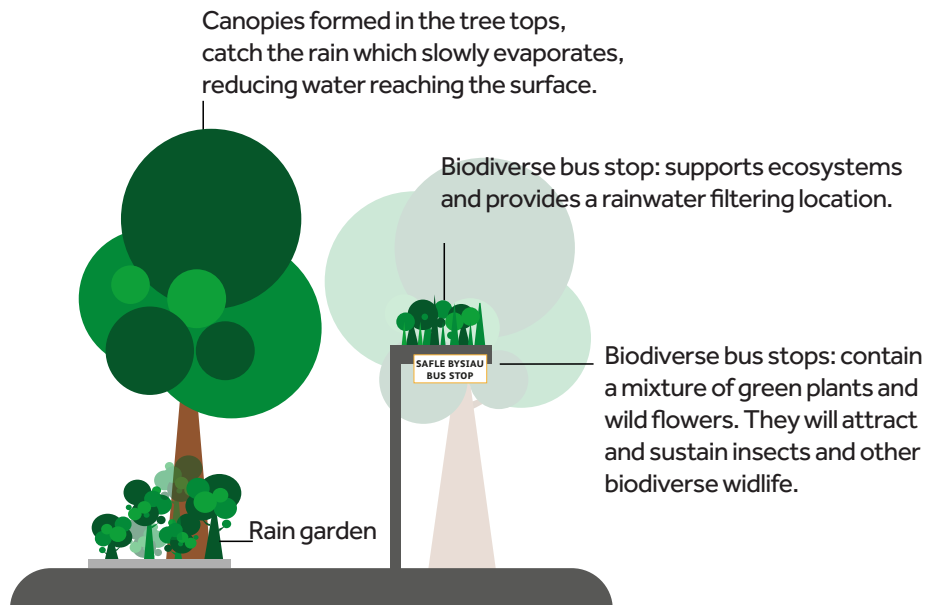
When rain falls in the natural environment, natural features such as trees, plants, grasses, earth along with rivers and streams; all help to process this water and this forms an integral part of the water cycle. In the built environment the normal stages of the water cycle are severely impeded. Problems resulting from this damaged cycle include flooding, pollution and issues of erosion. This water which cannot enter the natural water cycle puts additional strain on the sewer system. SuDS provide a natural approach to surface water management by creating a 'mini water processing site'.

SuDS benefits:

- Natural traffic calming measures.
- Improve the micro-climate.
- Improve the air quality.
- Bring nature into the urban environment.

Biodiverse bus shelters and Rain Gardens are examples of SuDS.

Planting Locations



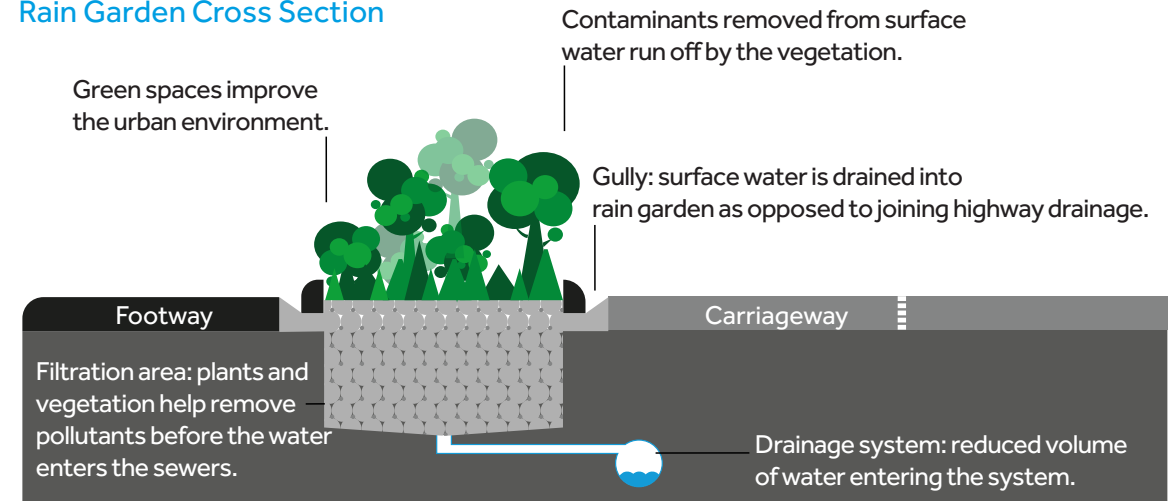
Biodiverse bus shelters

With a mixed variety of planting, not only do they support the reduction and slowing of water entering the drainage system, the entire roof of the bus shelter will create a habitat to support insects, other wildlife along with wide array of wild flowers.

Rain Gardens

These are usually a planted area with a variety of species, the plants perform several key functions; intercepting and cleaning both rainwater and surface water runoff. The reduced water volume either drains to a natural watercourse or the drainage system.

Rain Garden Cross Section



Castle Street: Permanent Scheme

Biodiverse Bus Shelter

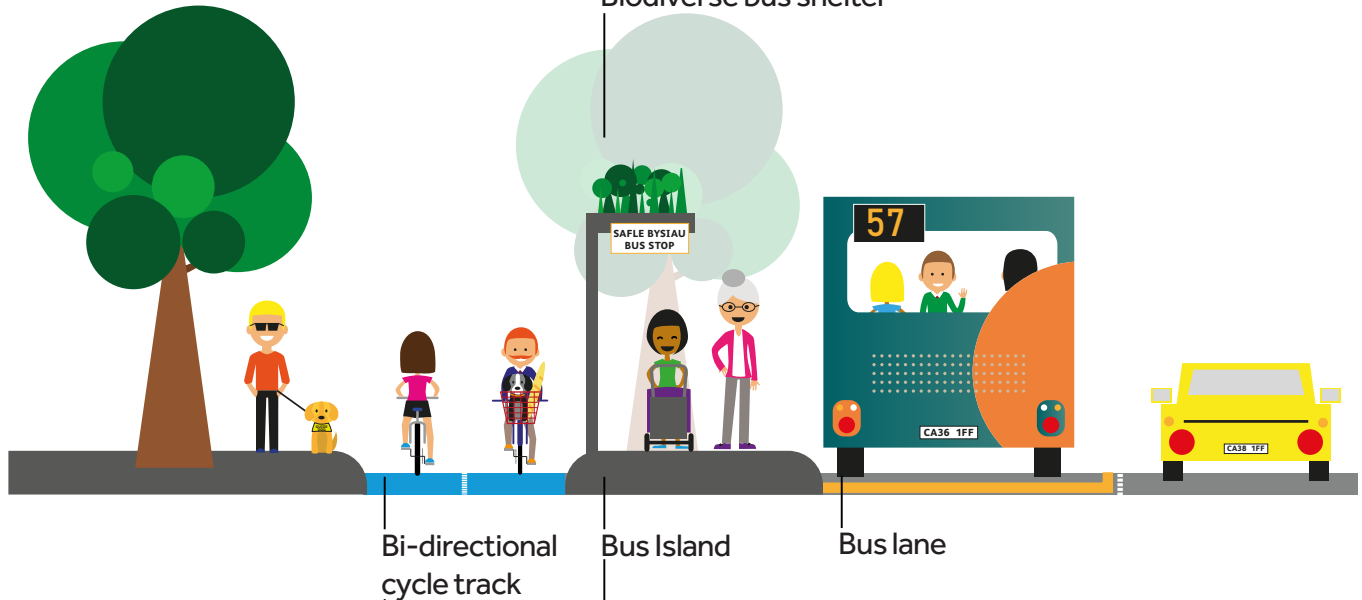
Bus Islands

- Some of the bus stops on Castle Street will sit on an island in between the cycle track and road.
- There will be zebra crossings, where cyclists will give way to pedestrians to access the island and get to the bus stops.

Bus Stops are Green

- Many of the new bus stop roofs across the city centre will be planted with shrubs and greenery to help encourage important insects and bugs into our environment.
- The new greener bus stops also help with water drainage issues, absorbing a proportion of the rainfall and diverting from our busy drains.

Bus Island Cross Section



Bus Island Plan View



Zebra crossing; cyclists give way to pedestrians

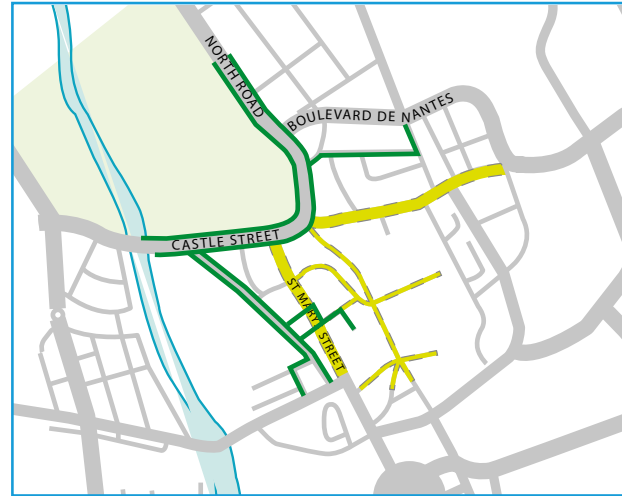
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Delivery Routes Maps

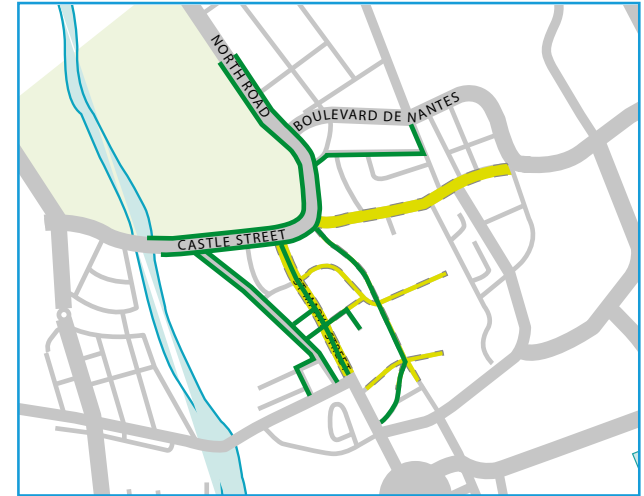
Option 1



24 hours



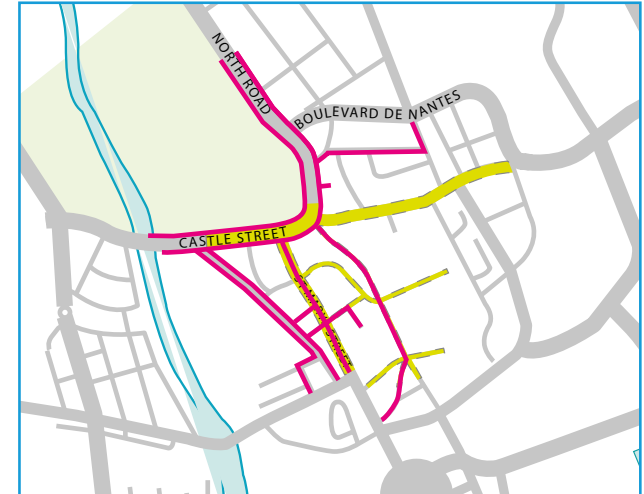
Loading Times: Midnight - 10am



24 hours



Loading Times: Midnight - 10am



Option 2

