

Cardiff's Transport Vision

The Canal Quarter & Kingsway Public Space



The Canal Quarter and Kingsway Public Space are part of the [City Centre East](#) improvement scheme.

This is the consultation document for the Canal Quarter proposals on Churchill Way and the Kingsway Public Space proposals on the Kingsway.

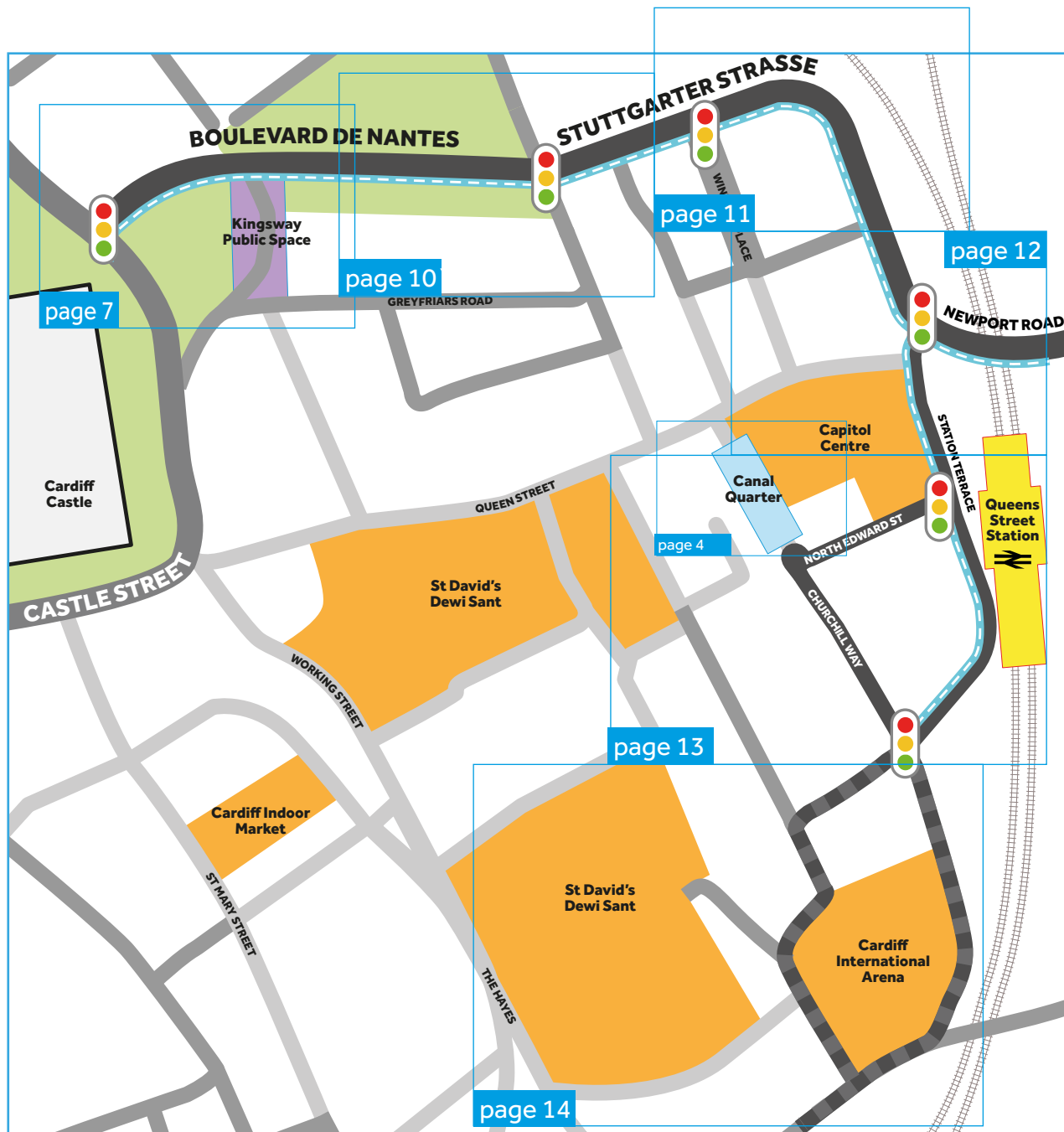
This document also provides a consultation update for the City Centre East scheme. First consulted on in May 2019 as part of the Council's Clean Air Plans, the City Centre East scheme has been modified.



To submit feedback on the scheme please go to <https://tinyurl.com/engcce> or email citycentreeast@cardiff.gov.uk

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Benefits

IN CARDIFF THE PHYSICAL ACTIVITY BENEFITS OF CYCLING PREVENT 13 EARLY DEATHS ANNUALLY WHICH IS VALUED AT £46 MILLION Source: Bike Life, 2019



Clean Air

We have a Clean Air Plan which aims to address NO₂ levels in the short term, but we want to get the air we breathe in the city as clean as it can be. Improvements to sustainable travel options and increasing the number of journeys made by active travel (walking and cycling) is a key part of this plan.

Multi-modal Transport Infrastructure

As part of an effective multi-modal transport network, this scheme will connect key transport hubs, retail and leisure destinations and places of education

Sustainability and Biodiversity

The scheme will incorporate the latest technology for drainage systems that are sustainable and encourage and support biodiversity. Trees will be planted in specialist pits along with a selection of greenery in drainage supportive planters. The bus shelters will also be 'green' with wild planting on the roofs to encourage nature into the city.



Public Realm

The scheme incorporates two outstanding sections of improvements to the public realm. Both The Canal Quarter and Kingsway Public Space will be bright, vibrant, clean and attractive public areas for both daily use and special event spaces.

Active Travel and Health

We have ambitious targets for active travel in the city. The percentage of journeys made by active modes will continue to increase significantly, with cycling continuing to grow in popularity. The safe segregated cycleway contributes to this active travel ambition.

Through Traffic

The scheme will help limit the unnecessary through traffic movement, providing cleaner air and a much improved city centre environment.

Car Parking Improvements

The main routes into the city centre car parks will function more efficiently, with improvements at junctions and increased signage.

Bus Priority Measures

To facilitate better cross city movements, buses will be given priority at several junctions across the scheme. Cross city movements will be improved and a faster connections to the Central Transport Interchange in Central Square will be created.

Sustainable and Active Travel

The scheme is fundamental to improving the city's networks for both sustainable travel and active travel.

32% OF CAR JOURNEYS ARE UNDER 3KM

Source: Cardiff Travel Behaviour Research Baseline Report, 2011

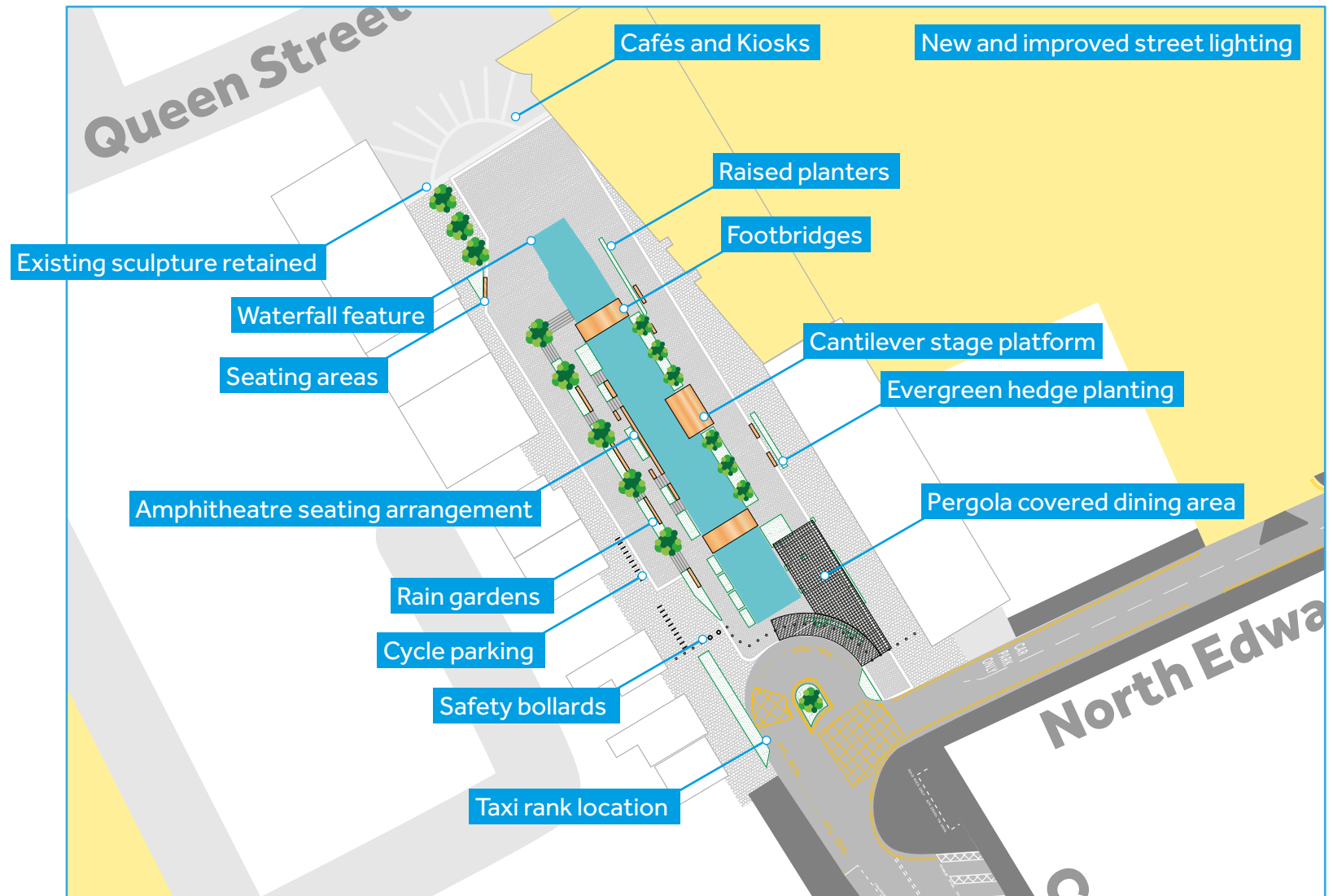
Pedestrian Safety

Throughout the entirety of the scheme, pedestrian crossings are being upgraded and improved. Not only will safety be improved but crossing times have been recalculated and improved.

MORE PEOPLE CYCLING IMPROVES AIR QUALITY: 14,000kg OF NO_x AND 1,900kg OF PARTICULATES SAVED ANNUALLY Source: Bike Life, 2019

The Canal Quarter - Phase 1

Following consultation in May 2019 as part of the Council's Clean Air Plans and engagement with stakeholders the City Centre East scheme has been modified to include The Canal Quarter.



The Canal Quarter - Phase 1

- Restoration of a section of the Dock feeder canal into a welcoming and green public realm.
- Vibrant planting including a range of all year flora, trees and rain gardens to support the SuDS infrastructure.
- Amphitheatre style seating arrangements.
- AI fresco dining and socialising areas.
- Outdoor seating amongst the planting and with waterway views and sounds.
- Taxi rank facility located at the junction with North Edward Street.
- Bridges and Cantilever platforms over the canal.
- Waterfall feature.
- Cycle parking at southern end.



Visualisation Only

**Any structures such as containers/cafes etc will be subject to planning approval.*



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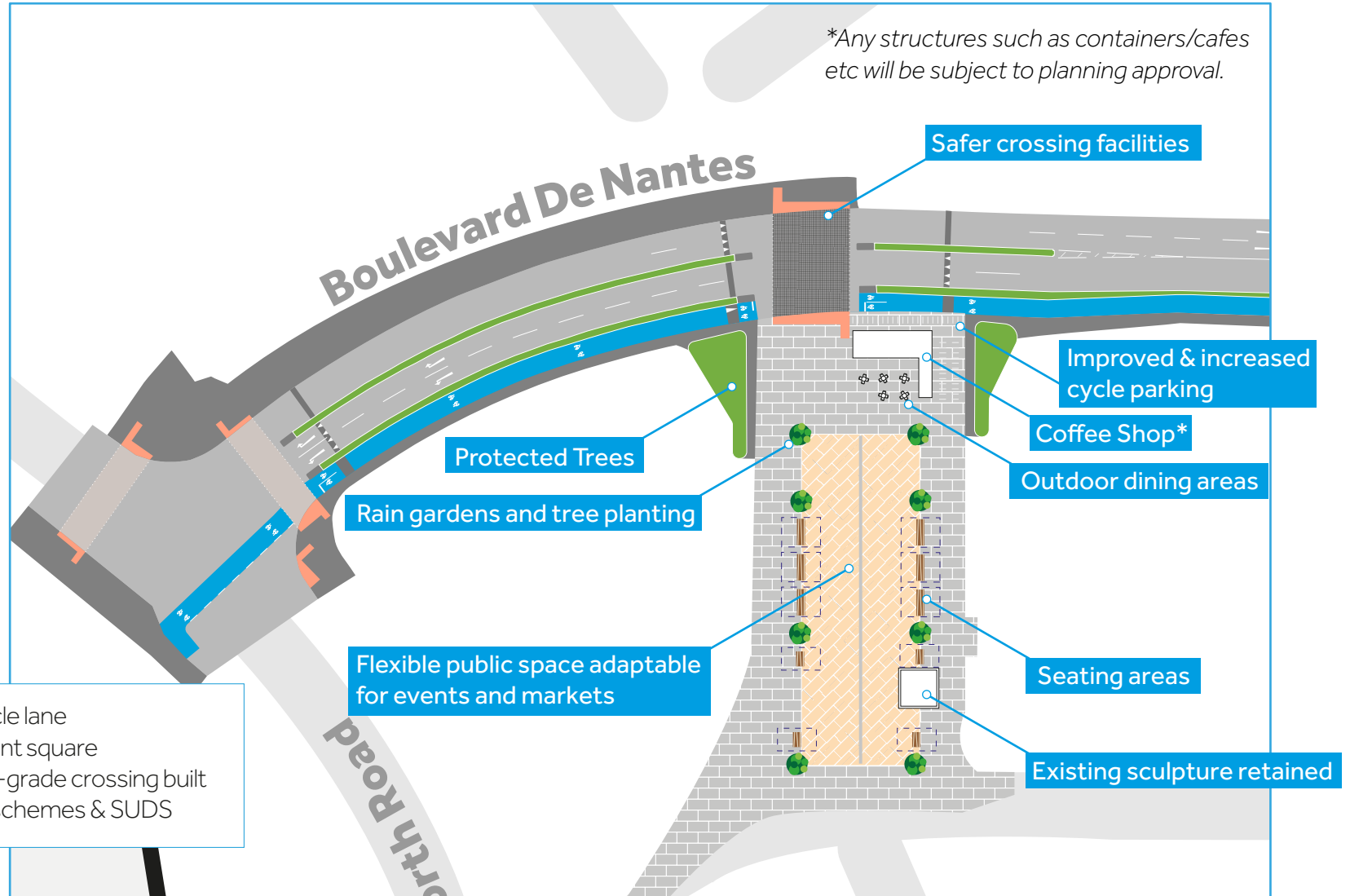
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Kingsway Public Space

Formal naming will be undertaken at a later date.



- Segregated two directional cycle lane
- Improved public space and event square
- Underpass to be filled in and at-grade crossing built
- Vibrant all year round planting schemes & SUDS

Kingsway Public Space

Formal naming will be undertaken at a later date.

- New pedestrianised public realm incorporating new paving and an at-grade crossing facility.
- Subway closed and re-purposed to alternative use.
- New cafe area with cycle parking.
- Flexible creative space for public events; seating that can be transformed into market stalls.
- Trees and rain gardens supporting SuDS infrastructure.



Visualisation Only

**Public Space to be subject to further detailed design and usage optioning.*

Options could include an event space, water feature and/or children's activity area.

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City Centre East

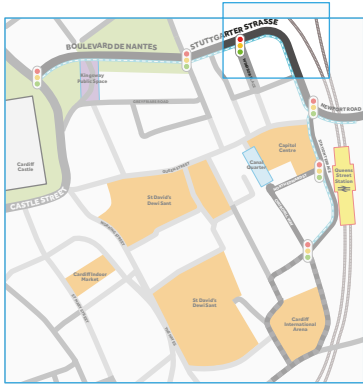
Following consultation in May 2019 as part of the Council's Clean Air Plans and engagement with stakeholders the City Centre East scheme has been modified.



- Reallocation of highway lanes
- Segregated two directional cycle lane
- Improved straight across crossing facilities

City Centre East

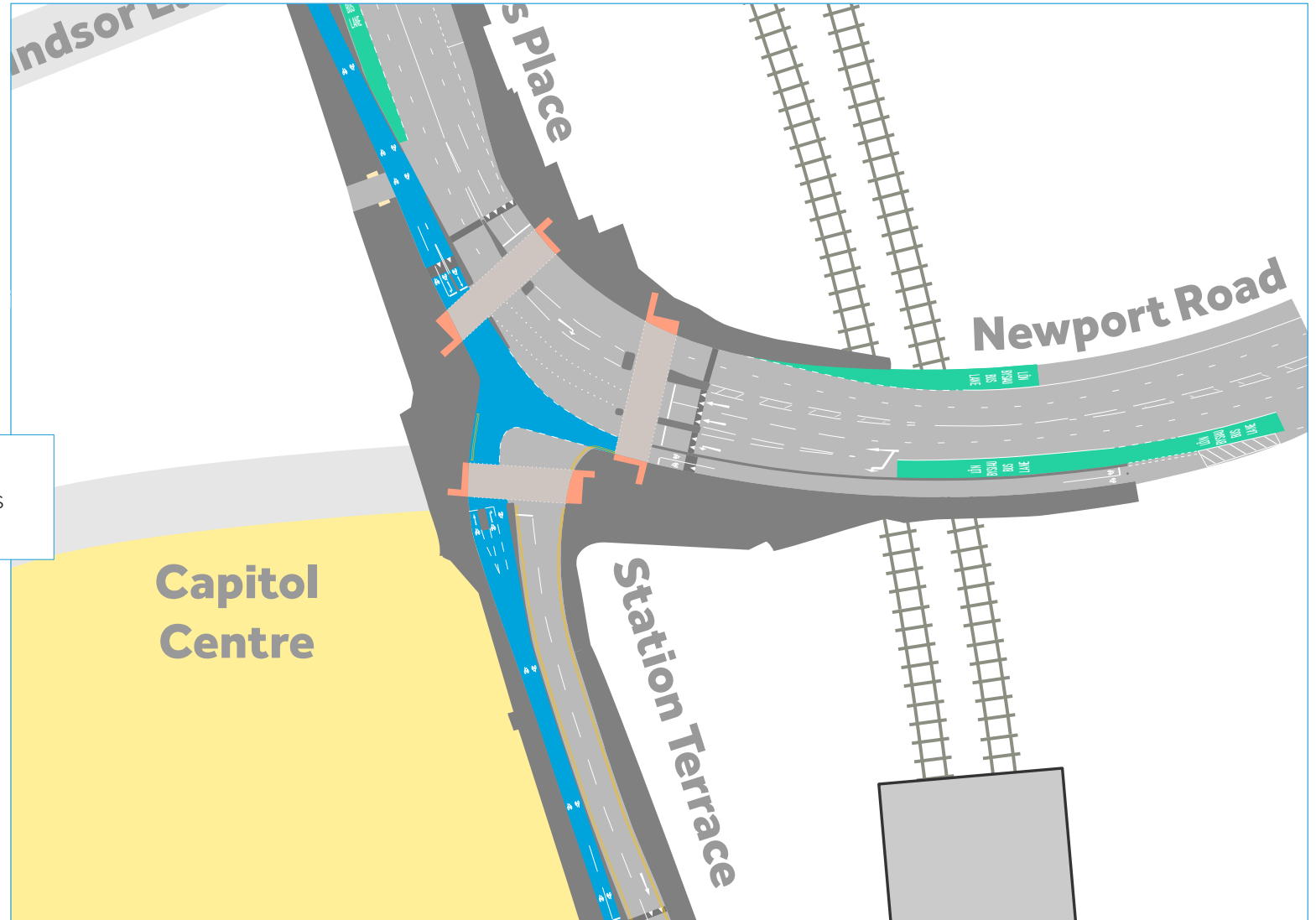
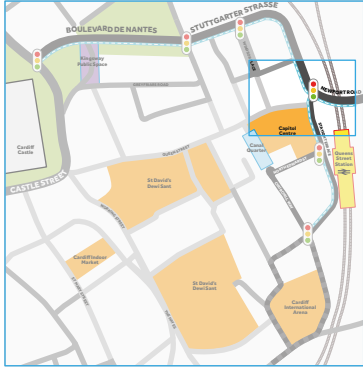
Following consultation in May 2019 as part of the Council's Clean Air Plans and engagement with stakeholders the City Centre East scheme has been modified.



- Bus lane retained
- Safer crossing facilities
- Bio diverse bus stops
- Segregated two directional cycle lane
- Right turn only when exiting Windsor Place

City Centre East

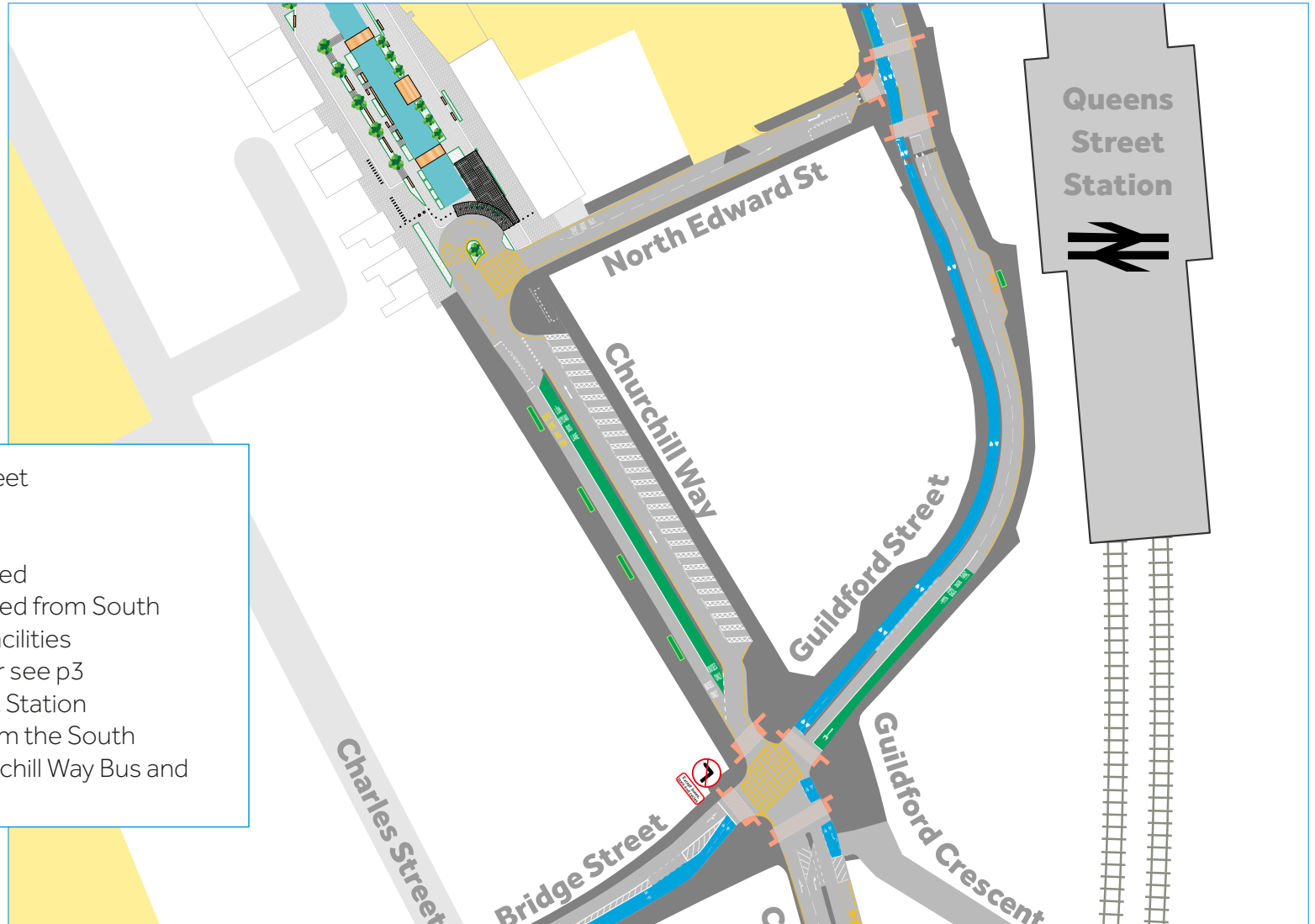
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- SuDS infrastructure
- Safer straight across crossing facilities
- Segregated two directional cycle lane

City Centre East

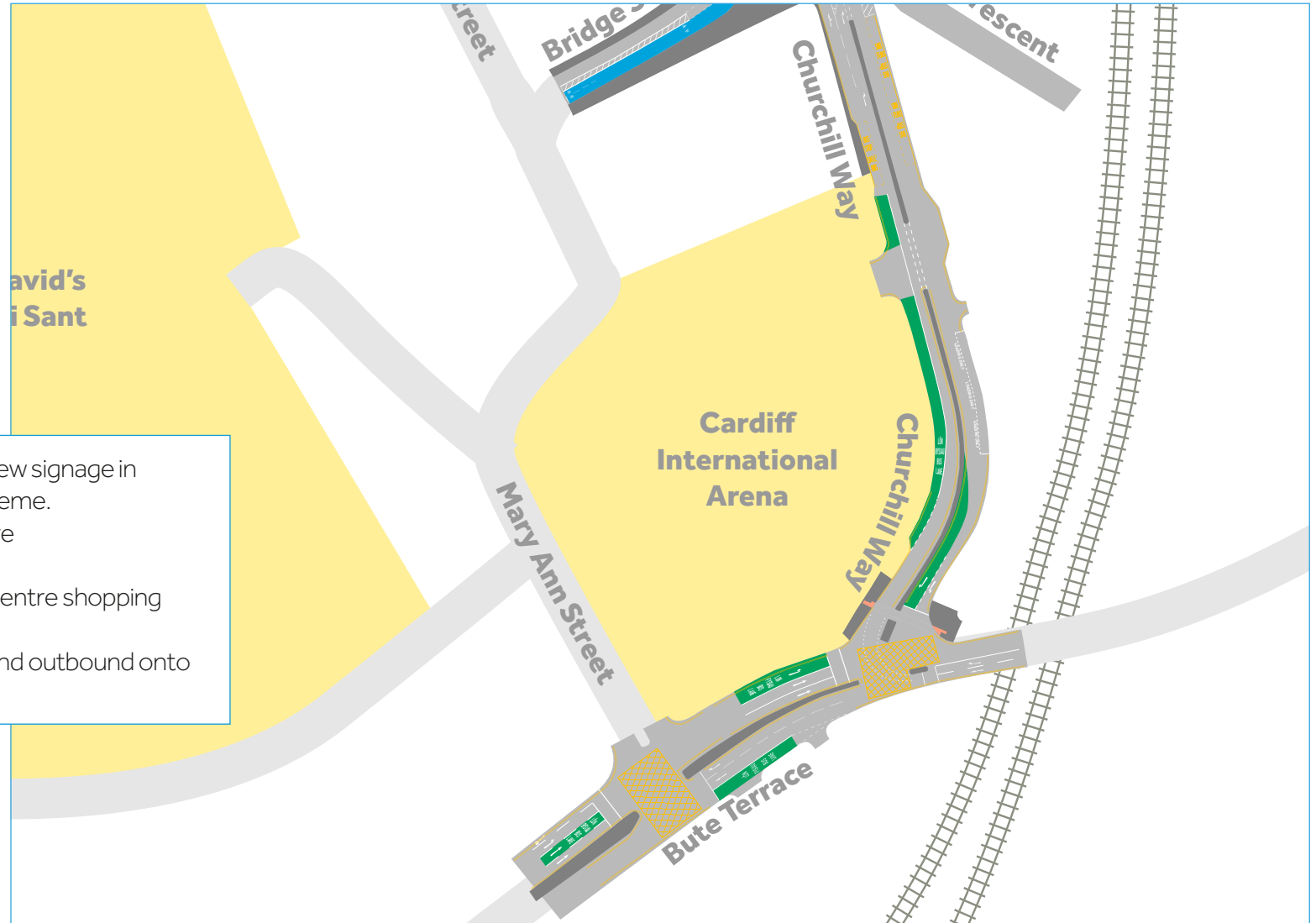
Following consultation in May 2019 as part of the Council's Clean Air Plans and engagement with stakeholders the City Centre East scheme has been modified.



- No through traffic along Guildford Street
- Bus priority measures throughout
- Bio-diverse bus shelters
- Some disabled parking to be relocated
- Guildford Crescent access maintained from South
- Improved straight across crossing facilities
- Enhanced public realm canal quarter see p3
- Enhanced public realm for Queen St Station
- Access to Churchill Way car park from the South
- Left turn from Bridge Street to Churchill Way Bus and Taxi Only

City Centre East

Following consultation in May 2019 as part of the Council's Clean Air Plans and engagement with stakeholders the City Centre East scheme has been modified.



- Area to have road lines redrawn and new signage in to accommodate City Centre East scheme.
- Permanent scheme to follow for future development of the area.
- New right turn for access to Capitol Centre shopping centre deliveries and residents.
- New bus priority measures inbound and outbound onto Churchill Way from Bute Terrace.

City Centre East

Boulevard De Nantes and Park Place

- Trees and rain gardens supporting SuDS infrastructure
- Two-way segregated cycle lane



Visualisation Only

Cardiff's Transport Vision

City Centre East

Boulevard De Nantes and Park Place

- Trees and rain gardens supporting SuDS infrastructure
- Two-way segregated cycle lane



Visualisation Only

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City Centre East

Dumfries Place, Newport Road and Station Terrace

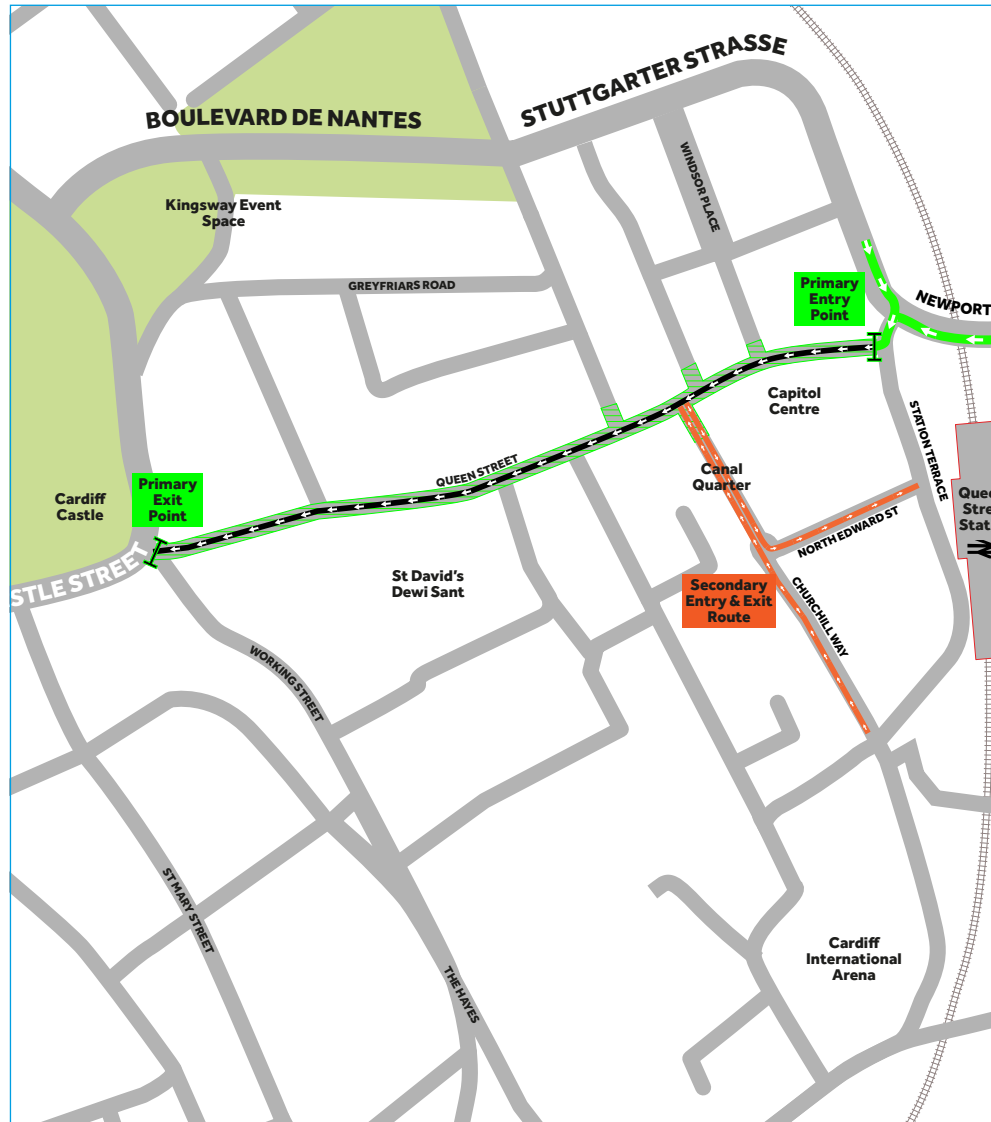
- New floating bus island with bio-diverse bus stops
- Two-way segregated cycle lane
- Improved pedestrian straight across crossing facilities
- Trees and rain gardens supporting SuDS infrastructure



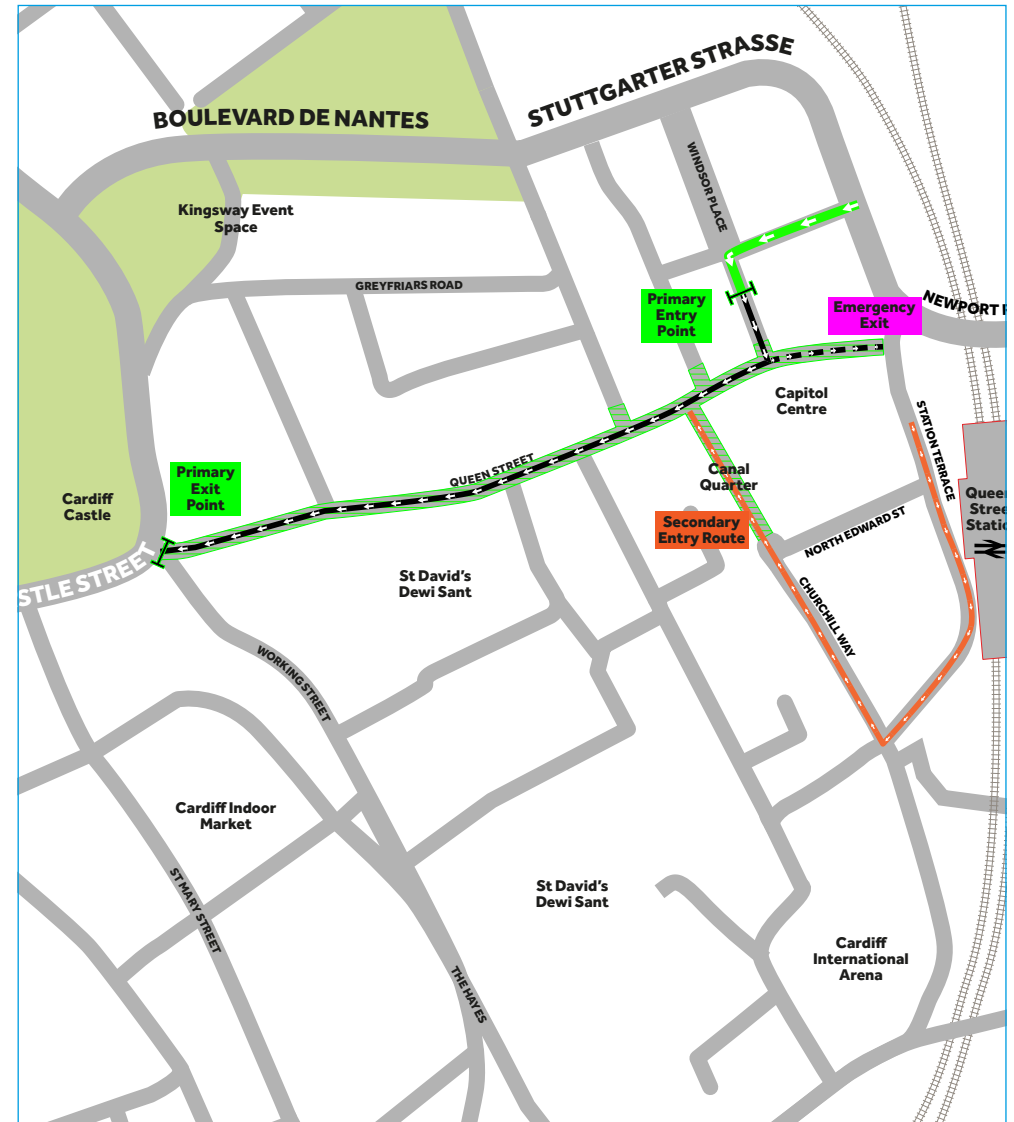
Visualisation Only

Pedestrian Area Deliveries

Current Access



Future Access



Advised routes for car park access/egress

Access routes for access to car parks, detailed in plan below.

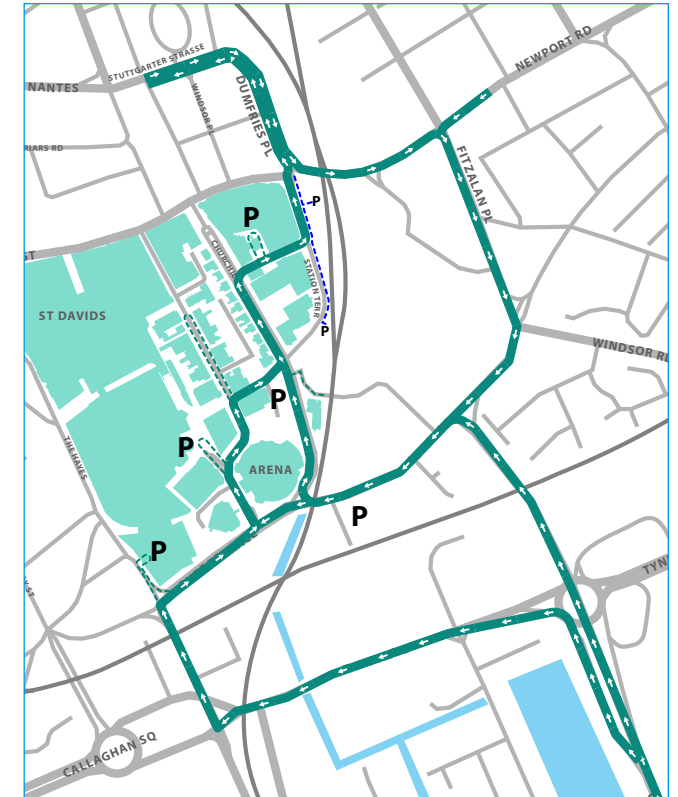
Routes for access to car parks



Routes for egress from car parks



General access map

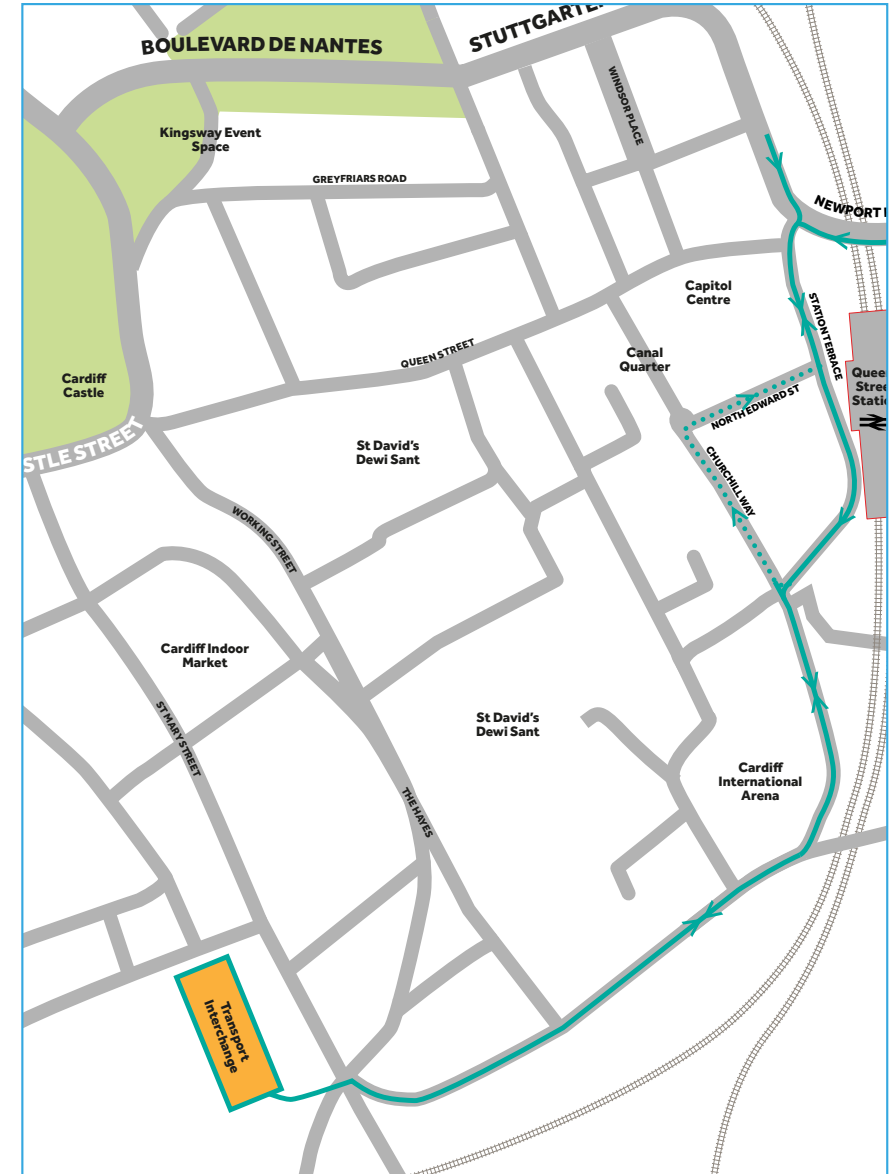


Public Transport Improvements



New bus priority measures through Station Terrace, Churchill Way and Bute Terrace which enables:

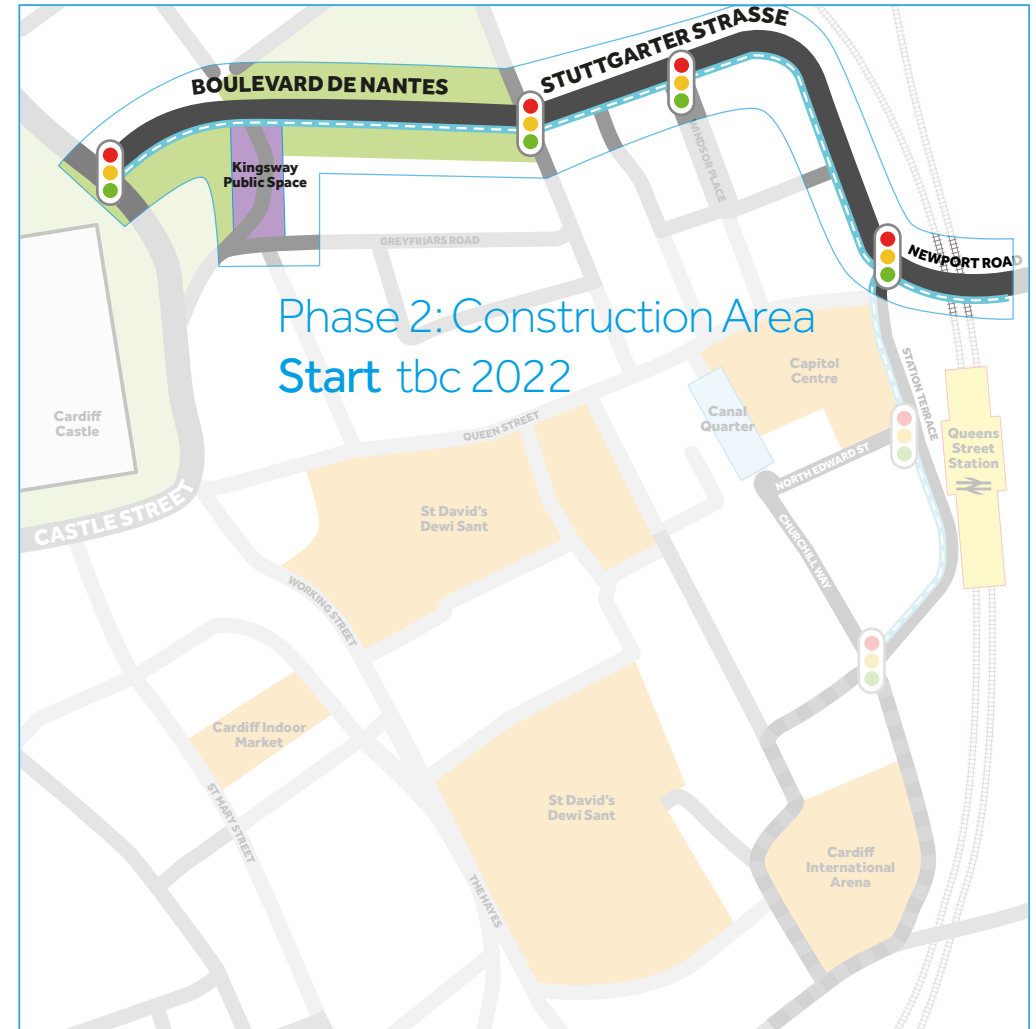
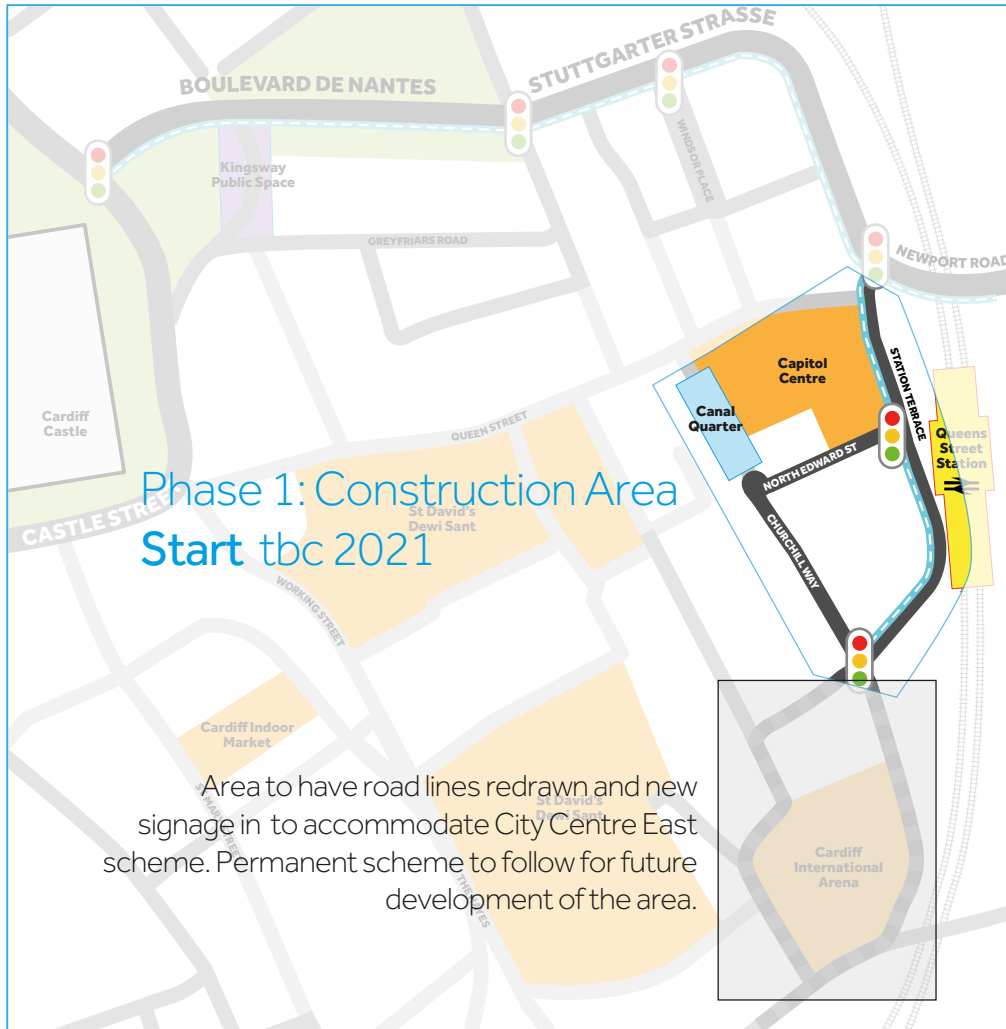
- ✓ New bus priority linking the east and the south west of the city centre
- ✓ Bus priority to access the south entrance of the new transport interchange
- ✓ Bus priority for city centre event mode, plus access to the transport interchange on event days
- ✓ Enhanced cross city route capability
- ✓ New short access loop via Station Terrace and Churchill Way, linking Queen Street Station
- ✓ Enhanced bus stop facilities outside of Queen Street Station



Programme Delivery



A series of enabling works will precede the delivery of this programme and will include redesign of entry bollards on Queen Street and relocation of disabled bays.



City Centre East

Improving Air Quality in Cardiff

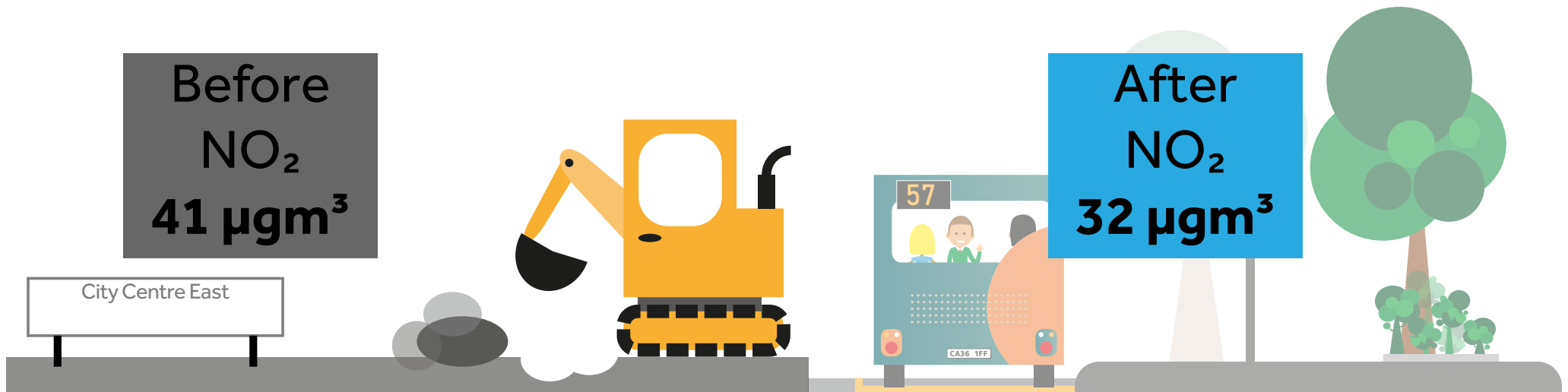
Air pollution is a local and national problem, Public Health Wales have stated that poor air quality is the most significant environmental determinant of health.

In response to a legal requirement issued by Welsh Government the Council assessed air pollution levels in Cardiff. We identified that levels of nitrogen dioxide (NO₂) in certain areas of Cardiff would continue to exceed legal limits unless mitigation measures are used across the city to address the levels of pollution.

The Council has designed and developed this Scheme in conjunction with the Castle Street scheme with a key objective to ensure that pollution levels with Cardiff comply with legal limits as soon as possible. This scheme was included in our Clean Air Plan which was approved by Welsh Government at the end of 2019.

The Council will undertake real time monitoring from equipment installed on City Centre East and elsewhere in the city centre to demonstrate the improvements in air quality from the Scheme. The data will be publicly available online.

**“Clean air is essential for a good quality of life, and poor air quality is considered the largest environmental risk to public health in the UK.”
World Health Organisation**



Sustainable Drainage Systems (SuDS)

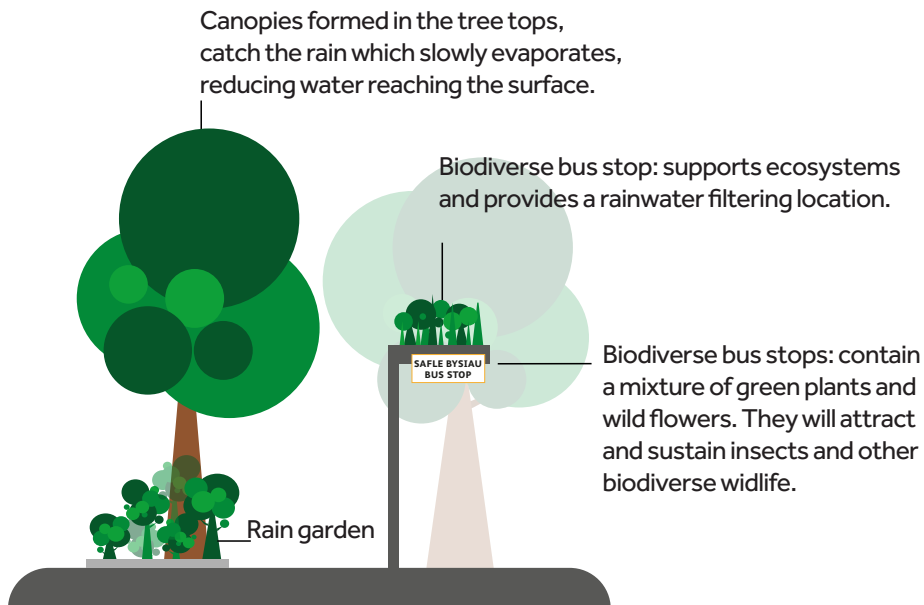
When rain falls in the natural environment, natural features such as trees, plants, grasses, earth along with rivers and streams; all help to process this water and this forms an integral part of the water cycle. In the built environment the normal stages of the water cycle are severely impeded. Problems 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



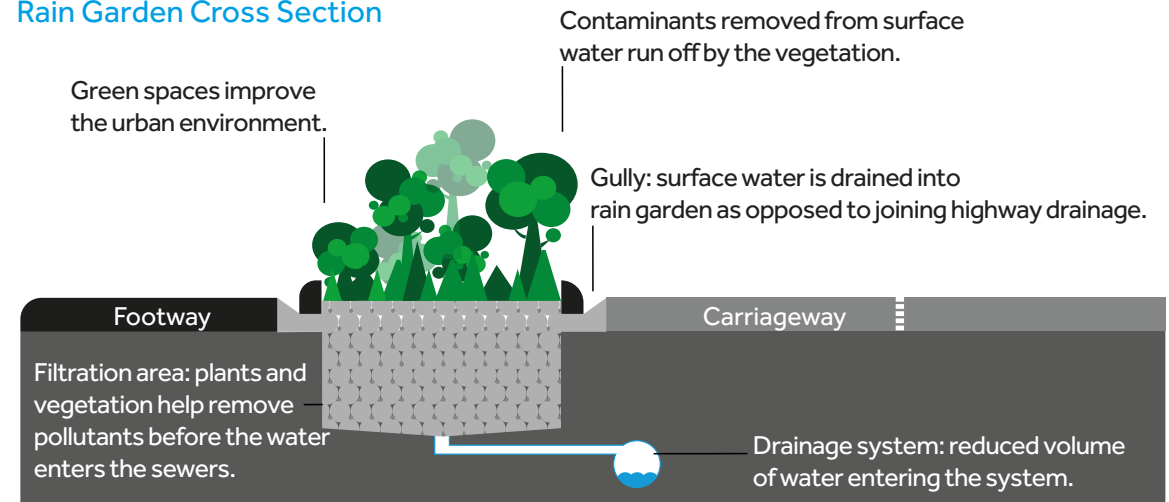
Biodiverse bus shelters

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



City Centre East

Bus Islands

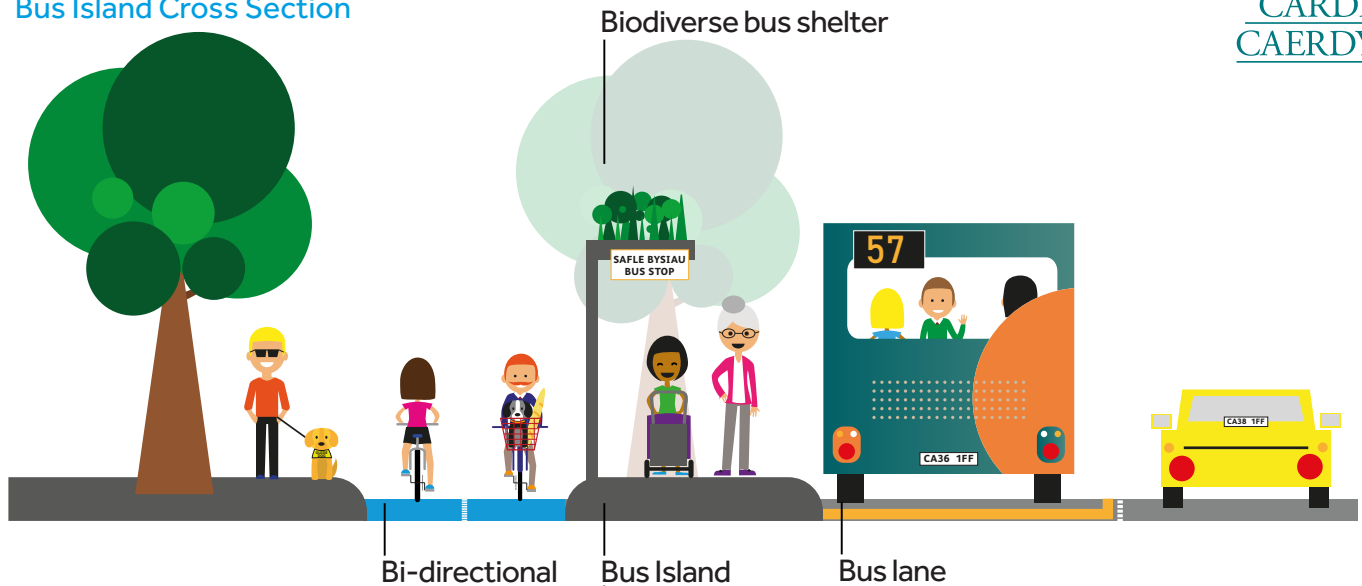
City Centre East

- Some of the bus stops on City Centre East 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.

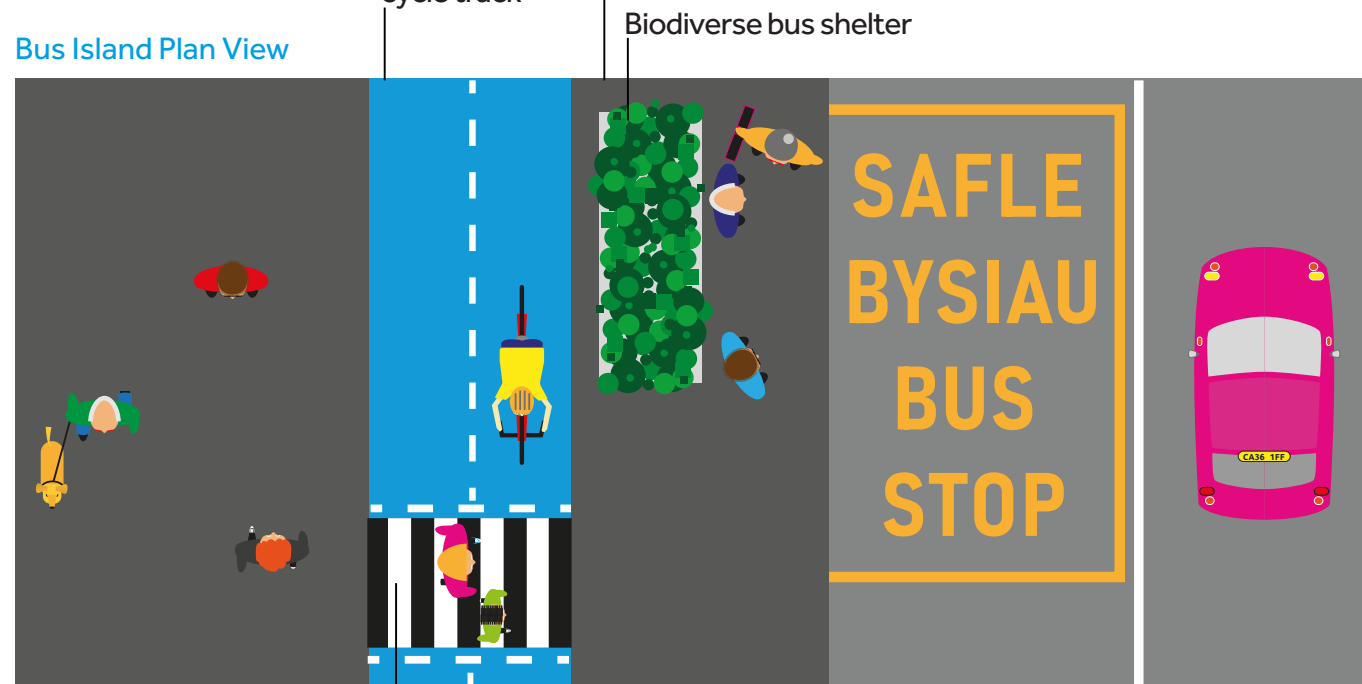
Bus Stops are Green

- 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