

# EARLY DESIGN SCHEMATICS AND ARTIST IMPRESSIONS

SEPTEMBER 2018



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All maps and illustrations are artist impressions of early design concepts. They are not final designs and are subject to change.



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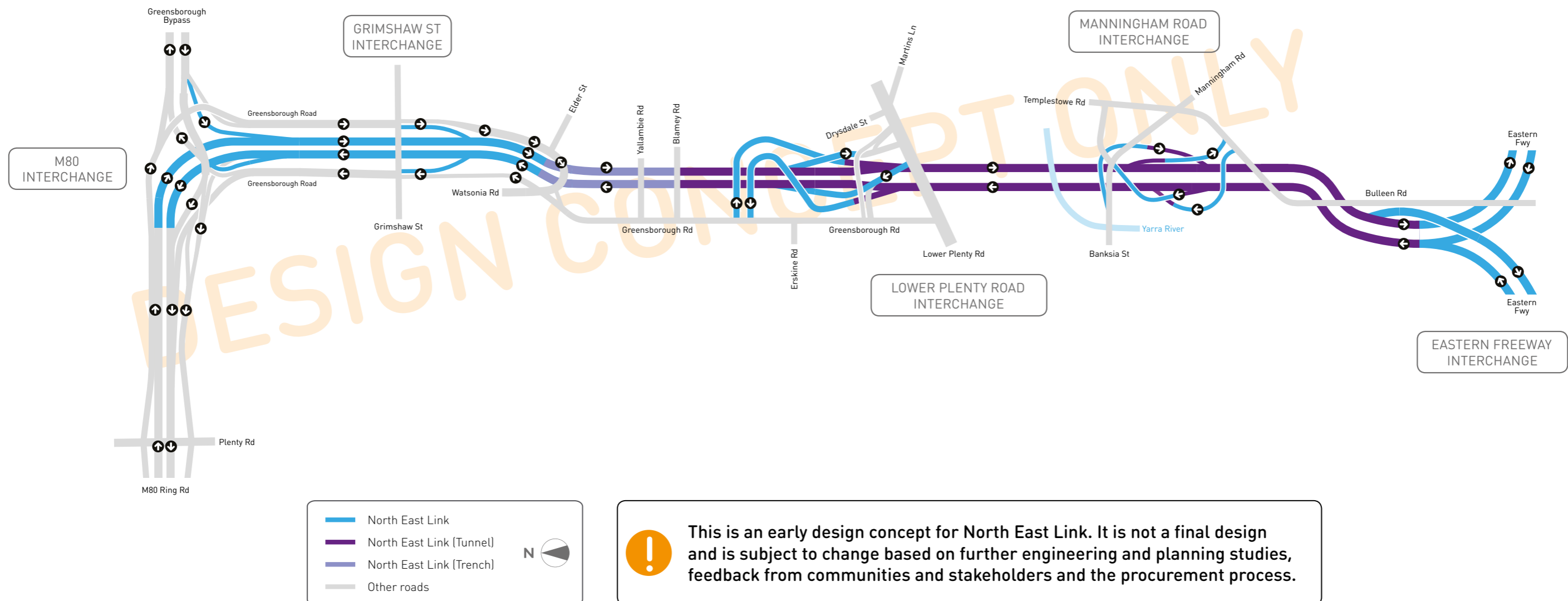
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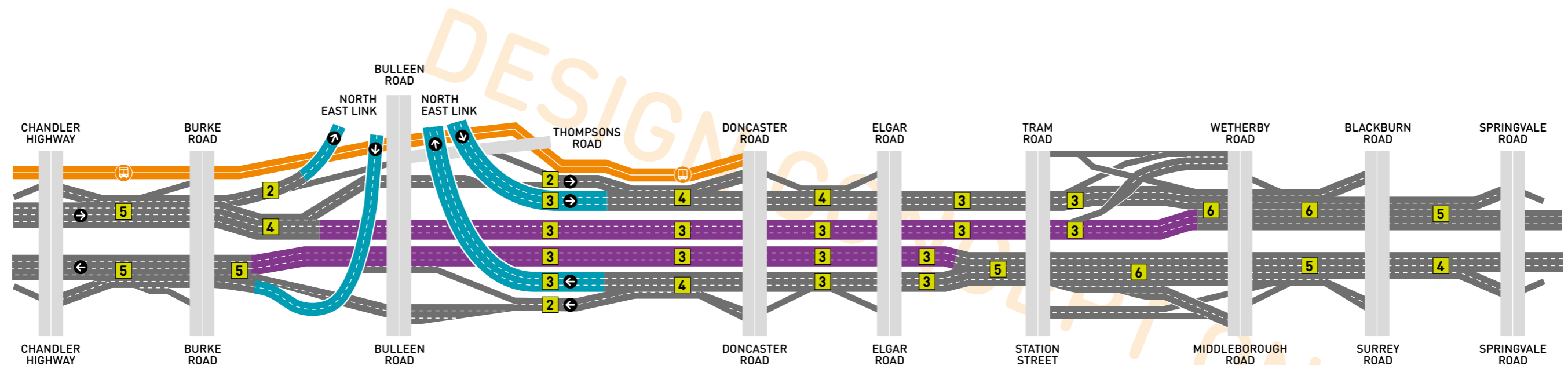
# North East Link design schematic

North East Link would provide an express connection between the M80 Ring Road and the Eastern Freeway, skipping 18 sets of lights. Interchanges would be located at the M80 Ring Road, Grimshaw Street, Lower Plenty Road, Manningham Road and the Eastern Freeway.



## Eastern Freeway design schematic

The Eastern Freeway would be upgraded to modern-day freeway standards. Express lanes would reduce merging and weaving that causes congestion, ramp metering (traffic light signals on entry ramps) would better manage traffic flow onto the freeway for safer and faster trips and new lanes would increase capacity to cater for demand now and into the future. A new, dedicated busway would provide a streamlined route for buses between Doncaster and the city away from cars and trucks.



**!** This is an early design concept for North East Link. It is not a final design and is subject to change based on further engineering and planning studies, feedback from communities and stakeholders and the procurement process.



# M80 interchange

looking south-east

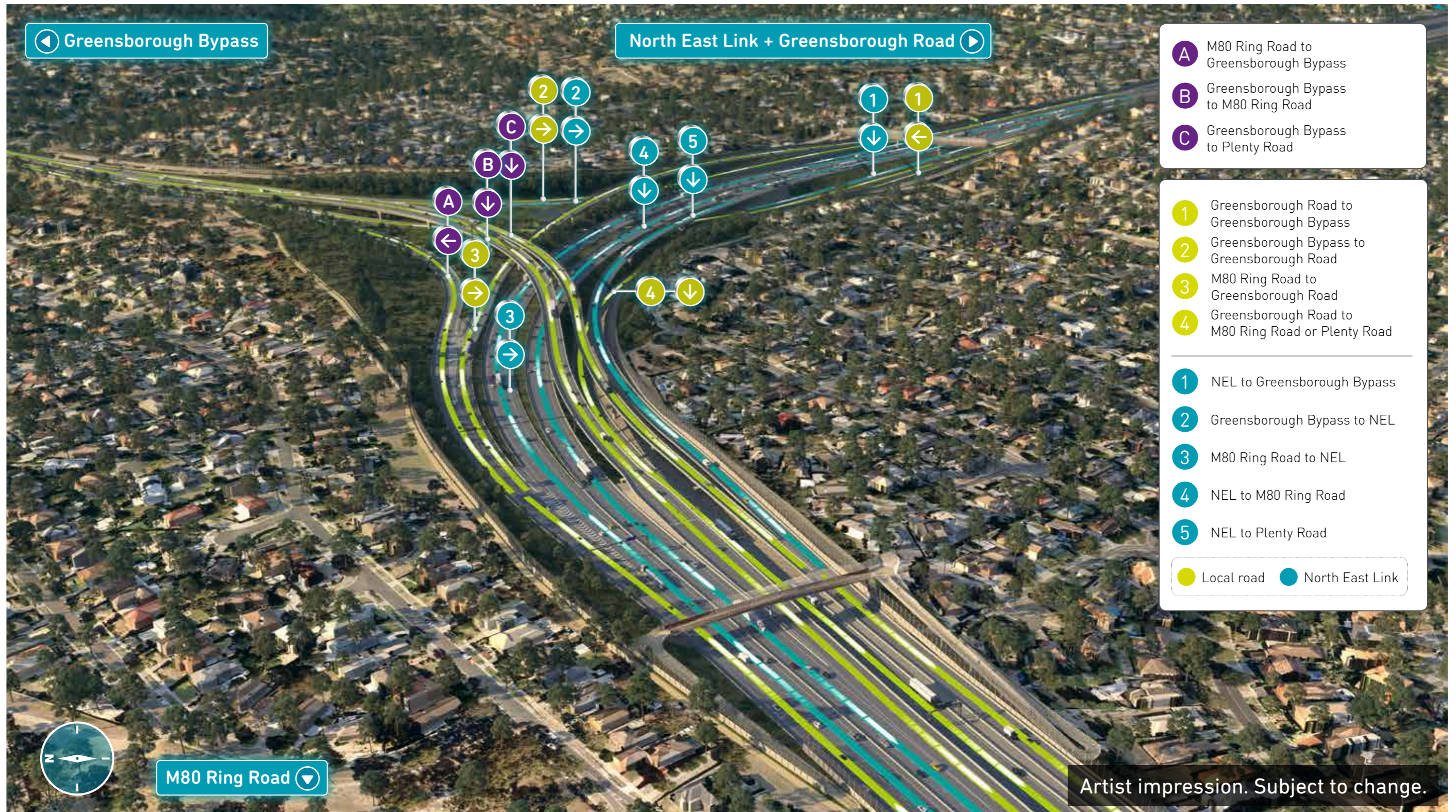


A free-flowing interchange connecting North East Link, the M80 Ring Road and Greensborough Bypass with Greensborough Road rebuilt on both sides of North East Link for local toll-free trips.



# M80 interchange

traffic movements



Local and North East Link trips in all directions.



# M80 interchange

walking and cycling links



- 1 Realigned section of Greensborough Bypass Trail
  - 2 Realigned section of Western Ring Road Trail
  - 3 New walking and bike riding bridge
  - 4 New on-road bike riding route
  - 5 New walking and bike riding path
  - 6 New walking and bike riding bridge
- See the new bridge from here on page 7
- See the new bridge from here on page 10

New walking and bike riding paths and bridges and on-road bike routes.



# Macorna Street bridge

looking east



A new walking and bike riding bridge over the M80 Ring Road connecting the Western Ring Road Trail with Macorna Street.



# M80 interchange

looking north

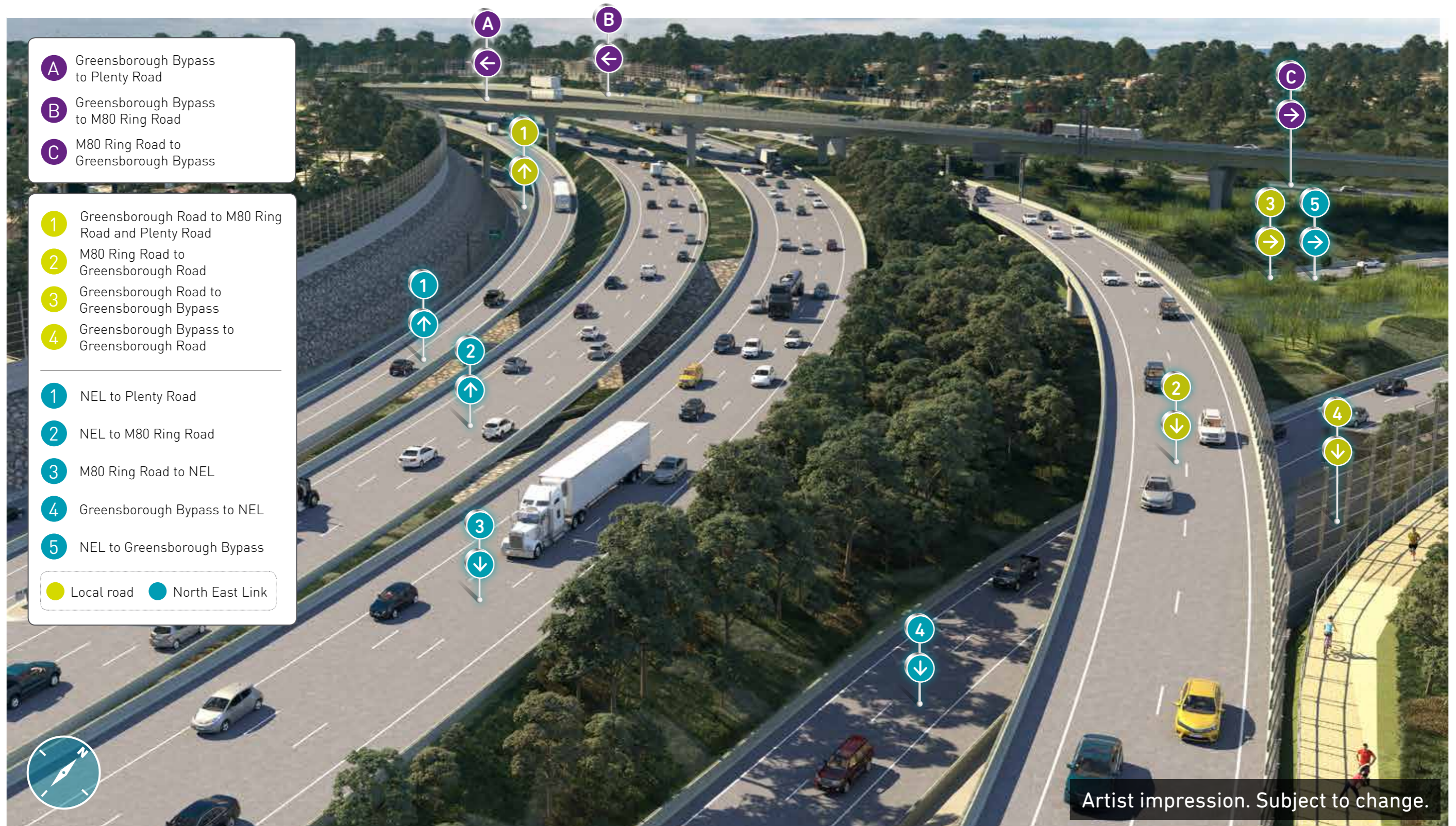


A free-flowing interchange connecting North East Link, the M80 Ring Road and Greensborough Bypass with Greensborough Road rebuilt on both sides of North East Link for local toll-free trips.



# M80 interchange

## traffic movements



- A** Greensborough Bypass to Plenty Road
- B** Greensborough Bypass to M80 Ring Road
- C** M80 Ring Road to Greensborough Bypass

- 1** Greensborough Road to M80 Ring Road and Plenty Road
- 2** M80 Ring Road to Greensborough Road
- 3** Greensborough Road to Greensborough Bypass
- 4** Greensborough Bypass to Greensborough Road

- 1** NEL to Plenty Road
- 2** NEL to M80 Ring Road
- 3** M80 Ring Road to NEL
- 4** Greensborough Bypass to NEL
- 5** NEL to Greensborough Bypass

● Local road   ● North East Link

Artist impression. Subject to change.

Local and North East Link trips in all directions.



# Yando Street bridge

looking north

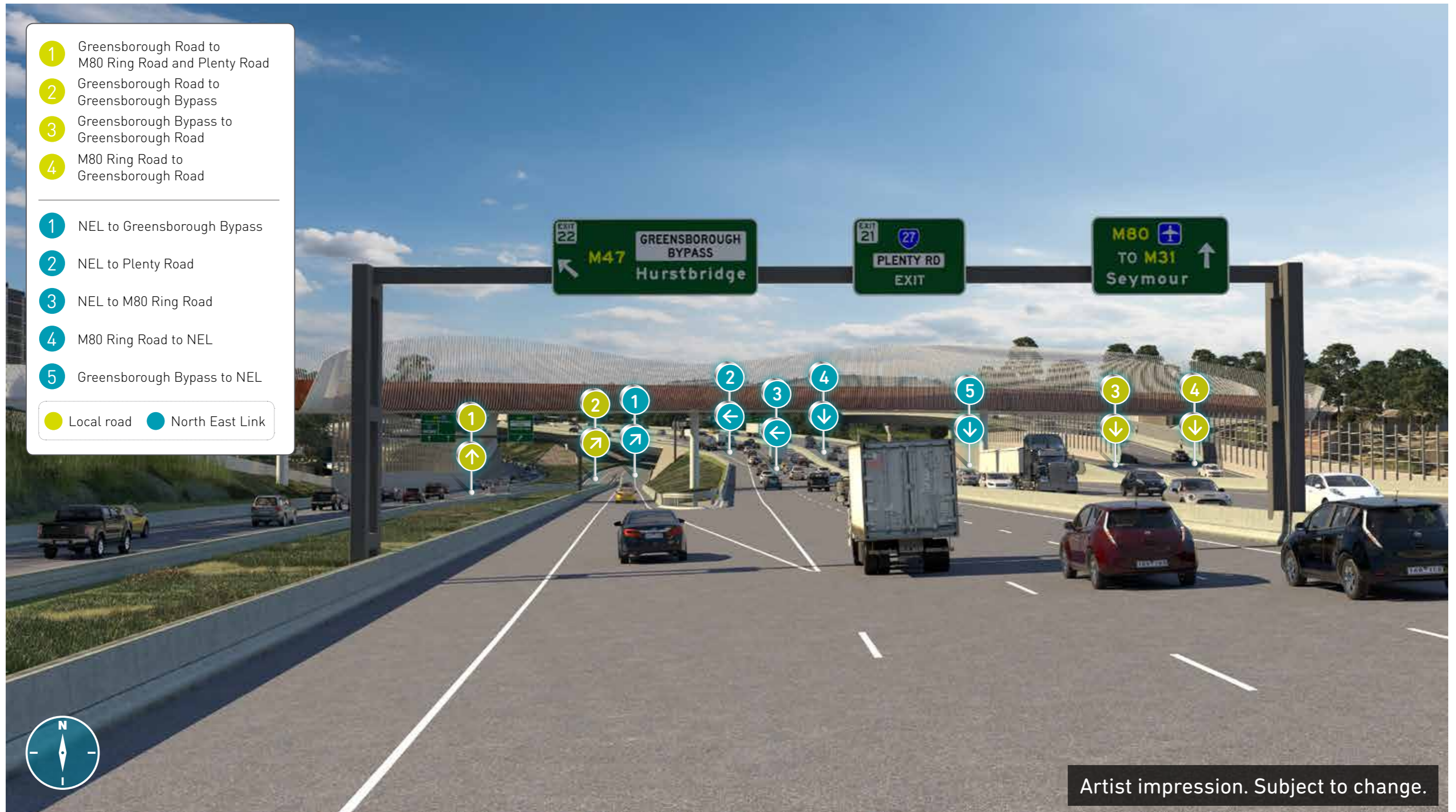


A new walking and bike riding bridge over North East Link and Greensborough Road connecting Macorna Street, Hakea Street and Yando Street.



# Yando Street bridge

## traffic movements



Local and North East Link trips in all directions.



# Grimshaw Street interchange

looking south



A new interchange with North East Link and through traffic on Greensborough Road passing under Grimshaw Street to improve traffic flow in all directions.



# Grimshaw Street interchange

traffic, walking, cycling and bus movements



Drivers travelling straight through this interchange on North East Link or Greensborough Road would pass under Grimshaw Street. Drivers getting on or off North East Link or Greensborough Road would use separate lanes.



# Watsonia station and shops

looking south



North East Link would start to lower into a trench about 8-12 metres deep and run next to Greensborough Road. Greensborough Road would be kept open for local use.



# Watsonia station and shops

looking south



Greensborough Road would be rebuilt on both sides of North East Link and be two way in sections to allow people to travel between Elder Street, the station carpark and the shops.



# North East Link and green bridges next to Greensborough Road

looking south



North East Link and green bridges running next to Greensborough Road. Greensborough Road would be kept open for local use.



# Green bridges

walking, cycling and local traffic



Green bridges and enhanced walking and cycling links.



# Green bridges next to Greensborough Road

looking south



Green bridges and upgraded walking and bike riding path running next to Greensborough Road.



# North East Link and green bridges next to Greensborough Road

looking north

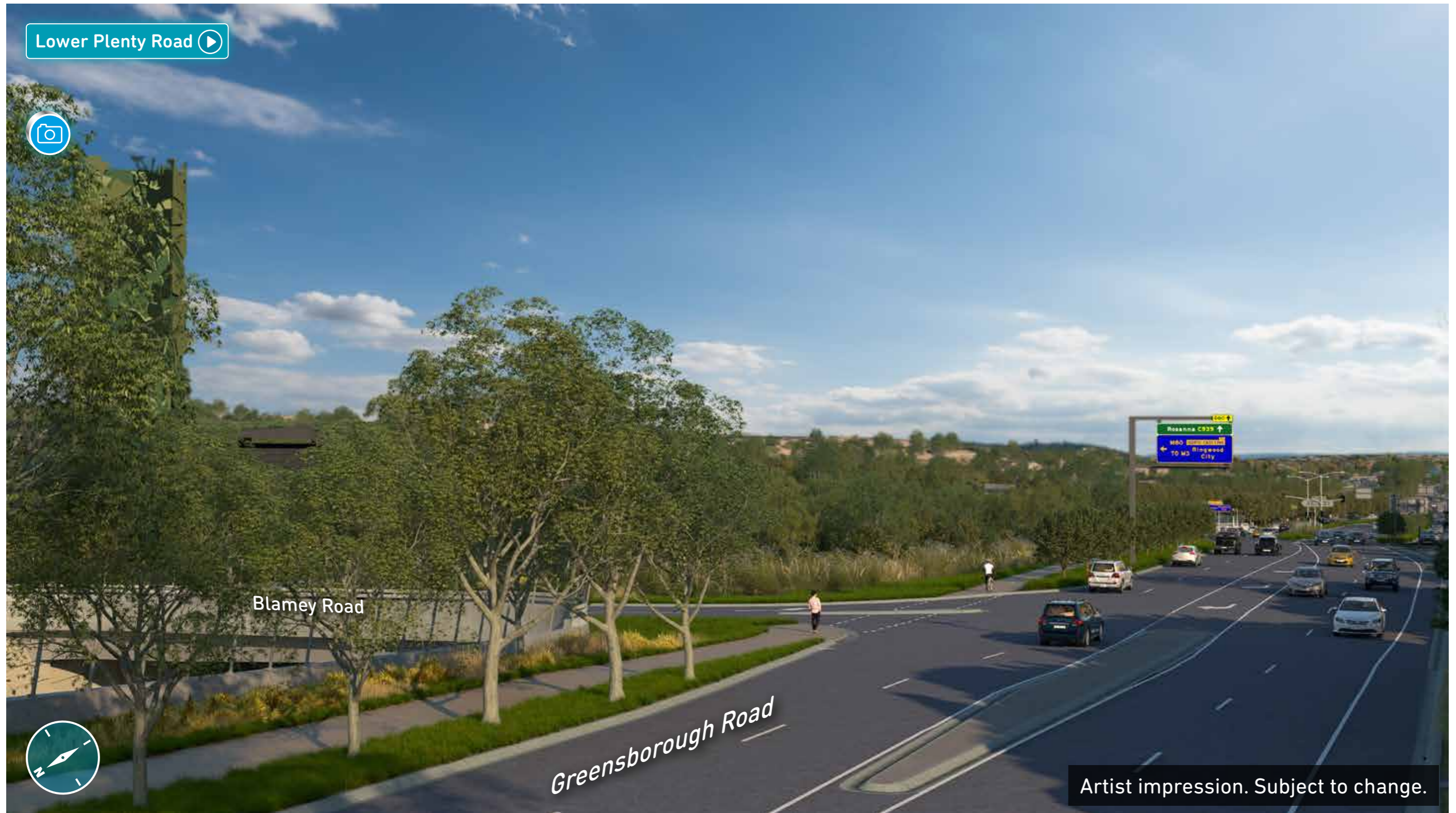


North East Link and green bridges running next to Greensborough Road.



# North East Link tunnel entry

looking south

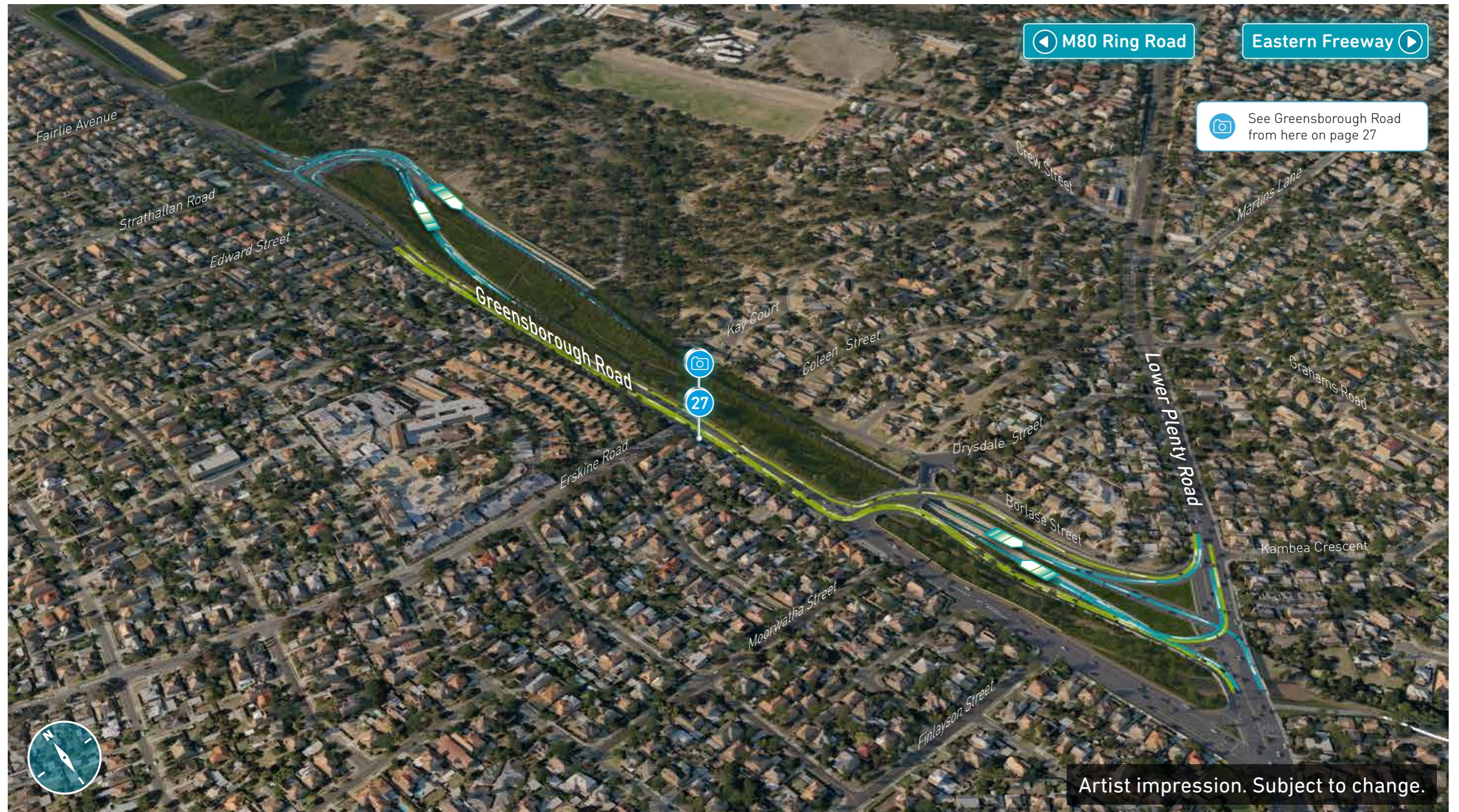


Tunnel entry at Blamey Road with ventilation structures located on what is currently Simpson Barracks land to reduce visual impacts for local residents.



# Lower Plenty Road interchange

looking north



A long, narrow interchange to minimise impacts on communities and the environment.



# Lower Plenty Road interchange

looking south



Entry and exit ramps in and out of the North East Link tunnels.



# Lower Plenty Road interchange

North East Link and local traffic



A new service road running next to Greensborough Road would distance homes on Strathallan Road from the interchange and prevent rat-running to and from North East Link.



# Lower Plenty Road interchange

looking north



Entry and exit ramps in and out of the North East Link tunnels.



# Lower Plenty Road interchange

## North East Link and local traffic



Entry and exit ramps in and out of the North East Link tunnel and local connections between Greensborough Road and Lower Plenty Road kept for local use.



# Lower Plenty Road interchange

looking south



A new walking and bike riding underpass connecting Greensborough Road to River Gum Walk Trail.



# Greensborough Road

looking north



An upgraded walking and cycling path and new planting along Greensborough Road.



# Manningham Road interchange

looking west



The Manningham Road interchange would be built from top down and then covered.



# Manningham Road interchange

## traffic movements



Drivers would use ramps to get in and out of the North East Link tunnels.



# Eastern Freeway interchange

looking north

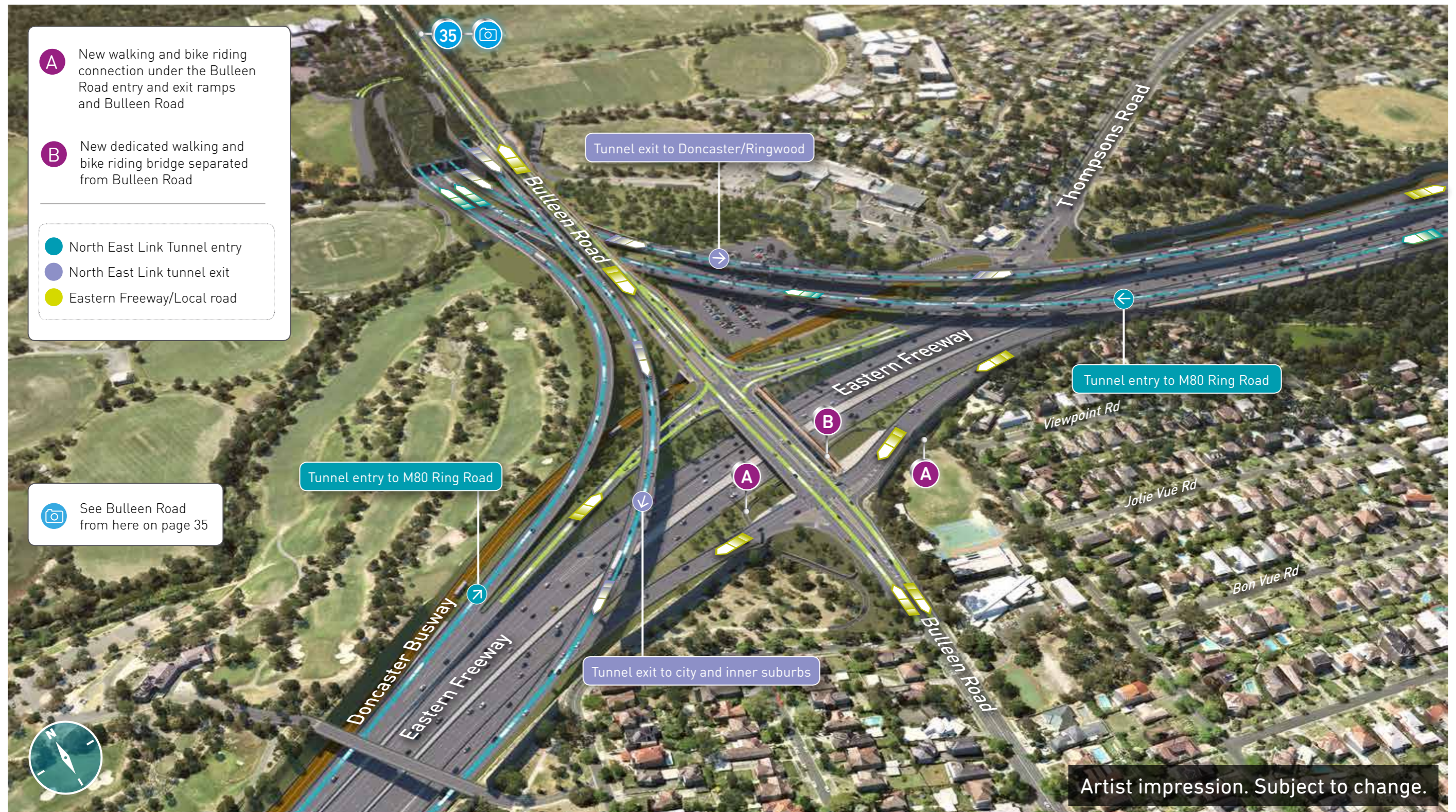


New interchange and tunnel portals next to Bulleen Road.



# Eastern Freeway interchange

traffic movements and new walking and cycling links



North East Link would connect seamlessly to the Eastern Freeway to keep traffic on both roads flowing freely in all directions. Bulleen Road would connect to the Eastern Freeway as it does today and be kept open for local use.



# Eastern Freeway interchange

looking north



Express lanes running in the middle of the Eastern Freeway would provide trips separated from merging traffic.



# Eastern Freeway interchange

looking north



Doncaster Busway and proposed park and ride.



# Bulleen Road

safer walking and cycling links and local connections



New signalised crossings and new and upgraded paths for walkers and bike riders.



# Bulleen Road

safer walking and cycling links and local connections



New signalised intersection and crossing to make walking and cycling to Veneto Club, Carey Sports Complex and Bulleen Park safer and easier.



# Eastern Freeway upgrades

looking towards Bulleen Road




Existing walking and bike riding trails, paths and bridges would be kept or rebuilt where needed.



# Eastern Freeway upgrades

looking towards Bulleen Road



- A** New Disability Discrimination Act compliant walking and bike riding bridge
  - B** Koonung Creek Trail
  - C** Doncaster Busway
  - D** Noise walls to protect homes near open space
- 
-  See Koonung Creek Reserve from here on page 38

Artist impression. Subject to change.

Existing walking and bike riding trails, paths and bridges kept or rebuilt where needed.



# Koonung Creek Reserve

looking towards the city





# Koonung Creek Reserve

looking towards the city



New landscaping combining open space and planting to filter views of the Eastern Freeway and noise walls, Koonung Creek Reserve



# Eastern Freeway

cycling upgrades and Doncaster Busway looking towards Ringwood



Doncaster Busway passing under Chandler Highway and separating to run on both sides of the Eastern Freeway and connect with Hoddle Street.



# Eastern Freeway bus and cycling upgrades

looking towards Ringwood



New bike bridge and Doncaster Busway running next to the Eastern Freeway.



# Doncaster Road

looking towards city



Rebuilt Doncaster Road bridge, new Doncaster Busway and upgraded Eastern Freeway.



# Doncaster Road

traffic, bus, walking and cycling movements



Doncaster Busway and new Koonung Creek Trail link passing under Doncaster Road.



# Eastern Freeway upgrades

Approaching Elgar Road exit looking towards Ringwood



Separated express lanes in the centre of the Eastern Freeway to ease congestion caused by merging and weaving.



# Eastern Freeway upgrades

Approaching Elgar Road exit looking towards Ringwood



Separated express lanes in the centre of the Eastern Freeway to ease congestion caused by merging and weaving.



# Koonung Creek Wetlands

looking towards the city



New Disability Discrimination Act compliant walking and bike riding bridge connecting to the wetlands.



# Koonung Creek Wetlands

looking towards the city



Separated express lanes in the centre of the Eastern Freeway to ease congestion caused by merging and weaving.



# Eastern Freeway upgrades

looking towards Ringwood



Dedicated lanes separating drivers getting on and off the freeway to ease congestion and improve safety between Tram Road and Middleborough Road.



# Eastern Freeway upgrades

looking towards Ringwood



Dedicated lanes separating drivers getting on and off the freeway to ease congestion and improve safety between Tram Road and Middleborough Road.



# Eastern Freeway upgrades

looking towards city



Dedicated lanes separating drivers getting on and off the freeway to ease congestion and improve safety between Tram Road and Middleborough Road.



# Eastern Freeway upgrades

looking towards city



Dedicated lanes separating drivers getting on and off the freeway to ease congestion and improve safety between Tram Road and Middleborough Road.



# Eastern Freeway upgrades

looking towards city



Ramp metering (lights) at Springvale Road to better space traffic getting on the freeway and ease congestion that flows from here back into the Mullum Mullum tunnels.



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