

Western Harbour Tunnel and Beaches Link - Cammeray

Proposed reference design

Western Harbour Tunnel and Beaches Link is an integrated transport solution that will make it easier, faster and safer to get around Sydney.

Western Harbour Tunnel

- from Rozelle, under Sydney Harbour to the Warringah Freeway.

Warringah Freeway Upgrade

- rationalising and streamlining Australia's busiest road in a four kilometre upgrade between the northern end of the Sydney Harbour Bridge and Willoughby Road.

Beaches Link

- from the Northern Beaches, under Middle Harbour to the Gore Hill and Warringah Freeways.

Entry and exit ramps for both Western Harbour Tunnel and Beaches Link will be in the Warringah Freeway between Ernest and Miller Streets, providing direct connections to the wider Sydney motorway network.

People driving to and from the Beaches Link and Western Harbour Tunnels will stay in the "mainline" tunnels underground - they will not surface at Cammeray. This will reduce traffic on Ernest Street, Falcon Street, Brook Street and Willoughby Road.

Works in Cammeray will include new pedestrian and cycle facilities.

A temporary construction site will be located beside the Warringah Freeway in part of the Cammeray Golf Course.

This site is proposed for tunnelling and surface works for Western Harbour Tunnel, the Warringah Freeway Upgrade and Beaches Link.

Part of the area will be permanently required for a motorway facilities building, which houses operational and electrical equipment needed for motorway operations.

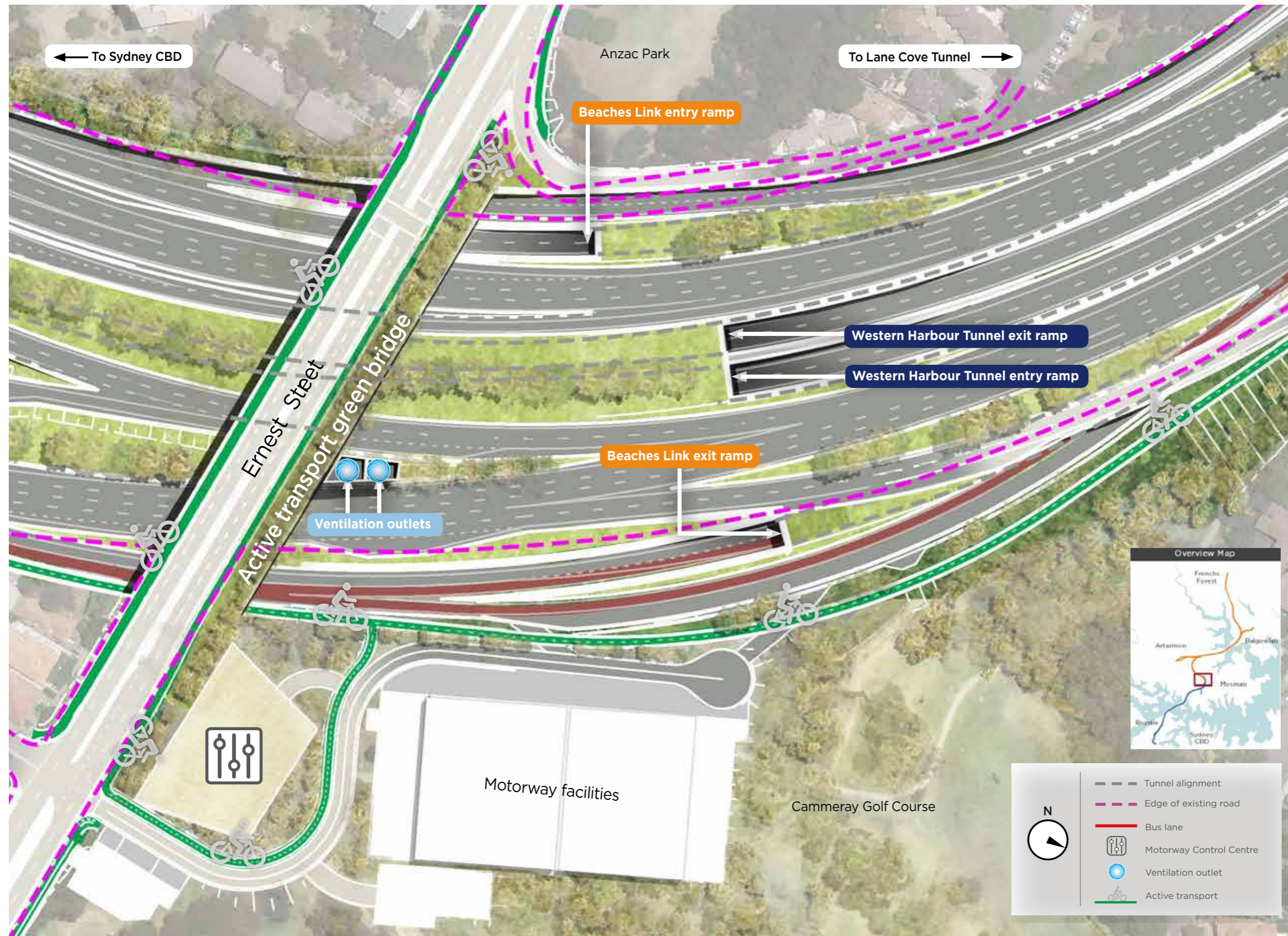
We are working with the Cammeray Golf Club with the objective of allowing the golf course to remain open throughout construction.

There are minimal, temporary impacts to Anzac Park.



Proposed construction site - Cammeray Golf Course

Cammeray proposal



Tunnel air quality

We have more than 20 years' experience in the design, operation and monitoring of tunnel ventilation systems.

Ventilation systems will be designed to meet stringent air-quality criteria set by the NSW Department of Planning and Environment, NSW Environment Protection Authority (EPA) and NSW Health.

On 17 February 2018, the NSW Government announced even stronger controls on tunnel ventilation facilities. Under these new reforms the EPA requires tunnel operators to meet air quality limits and carry out air quality monitoring.

There will also be additional checks for new motorway tunnels before they progress to the Environmental Impact Assessment stage.

These include an independent scientific review of air emissions from ventilation outlets carried out by the Advisory Committee on Tunnel Air Quality (ACTAQ), and a statement by the NSW Chief Health Officer on the impacts of these emissions

The Minister for Planning will not approve a motorway tunnel project until the ACTAQ review has been considered.

You can read more about air quality management on our interactive portal on air quality:

rms.nsw.gov.au/airquality

The ACTAQ initial report on Tunnel Air Quality (2014) can be found at: <http://www.chiefscientist.nsw.gov.au>

We will continue to engage extensively with the community and Council about this important project.

We are working with the Cammeray Golf Club with the objective of allowing the golf course to remain open throughout construction.

Benefits

Improved travel times and reliability for all Sydney Harbour crossings

- Western Harbour Tunnel will take pressure off Sydney Harbour Bridge and Tunnel
- Working together, all three harbour crossings will provide motorway standard trips across the harbour
- Our approach for these crossings is to ensure every origin is connected to every destination – some trips will use one of the existing crossings while other trips will use Western Harbour Tunnel
- Trips from Cammeray will have improved travel time and reliability across all harbour crossings, regardless of which one is used
- People from Cammeray will be able to access Western Harbour Tunnel via Berry Street
- Existing access between Cammeray and the Sydney Harbour Bridge and Tunnel will be maintained via upgraded Falcon and Miller Street interchanges.

Improved access for local traffic

- Once Beaches Link is open, a portion of Northern Beaches 'through' traffic will use the tunnel rather than routes such as Military Road, Ourimbah Road and Eastern Valley Way
- There will be a significant reduction in traffic using Spit Bridge and Roseville Bridge, improving journey times and reliability for cars and buses on Military Road and Warringah Road
- Trips from Cammeray to the Northern Beaches (and other areas) will benefit from reduced through traffic on surface roads across the Lower North Shore
- Improved capacity and resilience of the existing harbour crossings will reduce the present impacts of queuing extending from the freeway into local areas.

Returning local streets to communities

- Beaches Link takes pressure off key arterial roads, discouraging rat runs, allowing local streets to serve local trips and improving amenity
- Ernest Street will be quieter as traffic using Ourimbah Road is reduced by around one-third compared to future conditions without the project
- Brook Street north of the freeway will carry around 15% less traffic
- Miller Street at Cammeray Village will carry around 20% less traffic.

New and improved active transport connections

- We are providing new and upgraded shared user paths in and around Cammeray
- Bike path from Miller Street to Falcon Street, connecting to the existing Falcon Street shared bridge and on to North Sydney via St Leonards Park
- Ernest Street bridge will include a new green link featuring a shared user path to connect the green space at Cammeray Park, Anzac Park and Jeaffreson Jackson Reserve.

Improved public transport

- We are providing a continuous southbound bus lane on Warringah Freeway from Miller Street to the Sydney Harbour Bridge, improving travel times for bus customers and safety for all road users
- Bus commuters from Cammeray will benefit from improved travel times and reliability for bus trips to the Sydney CBD, with bus priority provided at the key bus connections with Warringah Freeway at Falcon Street and Mount Street
- Reduced through traffic on key bus routes (e.g. Military Road) will also improve travel times and reliability for local services.





Reducing our impact

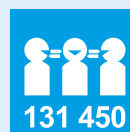
- Acoustic shed to contain noise and dust from tunnelling
- Minimises requirements for private property and minimises impacts on St Leonards Park and Anzac Park
- Minimise tree clearing at site boundaries to retain a green buffer
- Direct access to Warringah Freeway and Ernest Street for spoil trucks and construction delivery – keeping trucks off local streets
- Strict controls on trucks to and from the site. Trucks will generally be limited to 7am - 6pm Monday to Friday and 7am - 1pm Saturdays. No spoil trucks on Sundays or public holidays
- No impacts to all-weather football pitch, skate park or tennis courts
- Site is located beside the Warringah Freeway to minimise impacts to the Golf Course
- Permanent impacts to the golf course will be significantly smaller than the temporary construction site.

Construction site activities

- Entry site for road header machines tunnelling north and south from the golf course
- Western Harbour Tunnel and Beaches Link tunnel fit-out
- Tunnel spoil removal by truck with direct access to arterial roads and the motorway network
- Construction material storage and worker amenities
- Construction of the Western Harbour Tunnel and Beaches Link motorway facilities and ventilation facilities
- New Ernest Street bridge
- Warringah Freeway construction.

You can contact us at any time to learn more about the project or to provide your feedback.

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-  1800 931 189
-  whtbl@rms.nsw.gov.au
-  Customer feedback
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This document contains important information about transport projects in your area. If you need an interpreter, please call the Translating and Interpreting Service on **131 450** and ask them to call the project team on **1800 931 189**. The interpreter will then help you with translation.