

# Warringah Freeway Upgrade and Western Harbour Tunnel

Work notification | Out of hours work three month lookahead

January - March 2024



We are simplifying the Warringah Freeway, making it safer and easier to use, and more efficient and reliable for the benefit of all road users, including public transport users. The upgrade will connect with Western Harbour Tunnel to create a western bypass of the Sydney CBD, taking pressure off the Sydney Harbour Bridge, Sydney Harbour Tunnel and Anzac Bridge.

## Warringah Freeway Upgrade (WFU)

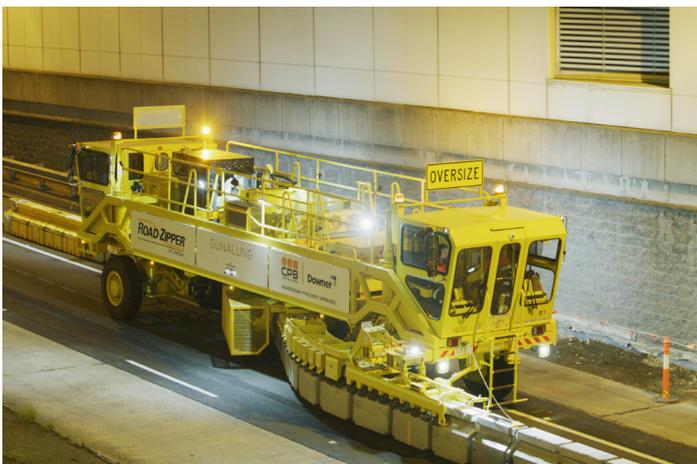
### Zippering up road safety

Construction on the Warringah Freeway will progress more efficiently and safely with the introduction of an innovative 2.2 tonne road barrier zipper machine that installs up to four kilometres of temporary barriers each night and zips them up before the morning peak hour.

The 14.8 metre long road zipper barrier machine is being used for the first time in construction in Australia.

The upgrade of 4km of the Warringah Freeway requires ongoing nightly lane closures to allow construction work to be undertaken without interruption to peak travel times.

The zipper machine will allow up to three extra hours for construction crews to work on the freeway at night and most importantly, maximises the work that can be carried out behind physical protection rather than workers being exposed to live traffic.



The zipper barrier machine in operation

## Western Harbour Tunnel (WHT)

### Heading towards the harbour

In November, Western Harbour Tunnel started roadheader tunnelling from the Cammeray temporary construction site. Over the next few months our tunnelling activities will continue, moving south under the Warringah Freeway towards Sydney Harbour.

At the Ridge Street temporary construction site in North Sydney, site establishment work continues. This includes the installation of a temporary power supply and connection to water and sewerage services. This work is expected to be complete in March 2024, weather permitting.

In early 2024, Western Harbour Tunnel will take over the Berry Street construction site in North Sydney which is currently used by Warringah Freeway Upgrade. Work in early 2024 will include site establishment such as site access, installing site sheds and worker amenities. Once established, the site will be used to support the construction of a southbound on ramp for Western Harbour Tunnel.



Roadheader at the Cammeray temporary construction site.

## Working together

The Warringah Freeway Upgrade and Western Harbour Tunnel project teams are working together in your area. We know building projects of this scale and significance does not go without impact and we are committed to making this as seamless and easy as possible for the community.

We plan our work together to minimise cumulative impacts on you. This includes coordinating our noisy and out of hours work, combining our communications activities including these notifications, door knocks and street meetings.

## Standard work hours

Where possible, we will carry out work during the day however, ongoing work outside of standard construction hours will be needed to maintain safety for road users and workers, and to keep people moving during peak travel times.

Our approved standard construction hours are **7am to 6pm Monday to Friday and 8am to 6pm on Saturday**.

## Work outside standard construction hours

We stage our out of hours work to help minimise impacts for residents. Work which may impact nearby residents in one area will be carried out for up to three nights per week, with only two consecutive nights per week and no more than 10 nights per month. There may be occasions where we need to change the sequence of nights we work outside standard construction hours so we can complete the activity sooner. We will consult with the community and seek approval from the NSW Environment Protection Authority (EPA) before making any changes to the out of hours work periods as outlined in this notification.

## Why we work outside standard construction hours

We need to work outside standard construction hours to mitigate a range of safety and operational risks, including:

- safety space – to reduce interactions between motorists, pedestrians and workers when we are building over and next to roads and live traffic
- traffic management – when we work next to, over or on existing roads we may need to stop, detour or reduce traffic to one lane
- service and utility disruptions – to minimise disruptions to essential services and utilities for local communities
- oversized deliveries – to allow delivery of oversized machinery or structures that police or other authorities determine require special arrangements to transport along public roads
- some emergency works that immediately impact road safety.

## How we manage our work

Our work activities will often require the use of machinery that generates noise, light and vibration. To minimise the impact of this work we will:

- turn off machinery when not in use
- install hoarding or shade cloth around our temporary construction sites, where possible
- use acoustic blankets to minimise noise, where feasible
- direct temporary lighting down and away from properties
- plan activities that are close to residents during standard construction hours or early evening, where possible
- fit equipment with devices to minimise noise, particularly non-tonal reversing beepers
- monitor noise periodically so we can manage any potential impacts and adjust our work as required.

All work will be carried out in line with the projects' environmental approvals.

## Managing construction noise

In April 2022, the EPA issued an Environmental Protection Licence (EPL) to the Warringah Freeway Upgrade contractor, CPB Downer Joint Venture (CPBD JV). As identified in the EPL, as well as CPBD JV's approved Construction Noise and Vibration Management Plan and approved Construction Noise and Vibration Impact Statements (CNVIS), CPBD JV is required to undertake noise modelling and monitoring when construction activities start. The CNVIS are submitted to the EPA and an independent acoustic advisor. To view these documents, visit [nswroads.work/wfuportal](https://nswroads.work/wfuportal).

In May 2023, the EPA issued an EPL to the Western Harbour Tunnel Stage 2 contractor, ACCIONA. As identified in the EPL, as well as ACCIONA's approved Construction Noise and Vibration Management Plan and approved CNVIS, ACCIONA is also required to undertake noise modelling and monitoring when construction activities start. The CNVIS are submitted to the EPA and an independent acoustic advisor. To view these documents visit [nswroads.work/whtportal](https://nswroads.work/whtportal).

## Keeping you informed and working with you

Work outside of approved construction hours will be carried out as outlined in the table overleaf. We will notify you again before work starts specifically in your area. If you have any feedback on the type or method of communication provided, please let us know. For more information, and to keep up to date on current work activities in your area, please visit [nswroads.work/wfu-notificationsmap](https://nswroads.work/wfu-notificationsmap).

# Warringah Freeway Upgrade and Western Harbour Tunnel work activities

January to March 2024

Map reference	Locations	Activity
1 	Warringah Freeway between Sydney Harbour Bridge, Milsons Point and Ridge Street, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>locating services and utilities and inspecting existing infrastructure</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> <li>surveying</li> <li>installing concrete barriers</li> <li>altering existing line marking</li> <li>establishing temporary construction sites</li> <li>constructing retaining wall</li> <li>earth work including installing drainage</li> <li>constructing new concrete pavement</li> </ul> <p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>constructing the new southbound bus ramp on the existing Mount Street bridge</li> <li>installing concrete barriers and screens</li> <li>removing street lighting and installing temporary lighting</li> <li>geotechnical and pavement investigation</li> <li>CCTV sewer and utility investigation</li> <li>line marking and removal</li> <li>installing signage</li> </ul>
2 	Arthur Street, Pacific Highway, Mount Street, Alfred Street North, High Street, Lavender Street, Whaling Road, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>locating services and utilities and surveying</li> <li>inspecting existing infrastructure</li> <li>clearing/trimming vegetation and trees</li> <li>installing concrete safety barriers</li> <li>altering existing line marking</li> <li>installing signage</li> <li>establishing temporary work areas including temporary fencing</li> <li>piling</li> </ul> <p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>demolishing and reconstructing road pavement and structures</li> <li>excavating</li> <li>bridge work, including piling, reinforcing concrete, demolition, installing steelwork and deck construction</li> <li>constructing new retaining walls</li> <li>installing drainage pits and pipes</li> <li>removing and installing street lights</li> <li>removing and relocating traffic lights</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>
3 	Alfred Street North between Mount Street bridge and Ridge Street, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>realigning the intersection of the Alfred Street North off ramp and the Mount Street left-turn lane further north to facilitate retaining wall construction</li> <li>locating services and utilities and surveying</li> <li>removing and relocating services</li> <li>inspecting existing infrastructure</li> <li>clearing/trimming vegetation and trees</li> <li>investigating geotechnical and pavement</li> </ul> <p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>installing concrete safety barriers</li> <li>altering existing line marking</li> <li>establishing temporary work areas</li> <li>piling</li> <li>constructing new retaining walls and removing existing retaining walls</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>
4 	Berry Street between Pacific Highway and Arthur Street, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> <li>constructing pavement</li> </ul>
5 	Berry Street on ramp to Warringah Freeway northbound, North Sydney	<p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>delivering plant, equipment, materials and site sheds</li> <li>clearing and trimming vegetation and trees</li> <li>establishing temporary construction sites</li> <li>installing concrete barriers and screens</li> </ul> <p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>removing street lighting and installing temporary lighting</li> <li>line marking and line removal</li> <li>installing signage</li> <li>installing erosion and sediment controls</li> </ul>
6 	WFU Ridge Street temporary construction site, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>bridge work including piling, concrete work, excavation and demolition</li> </ul>
7 	Ridge Street and Miller Street, North Sydney	<p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>investigating utilities</li> <li>installing 11kV electrical cable</li> </ul> <p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>geotechnical investigation</li> <li>installing sewer and drainage</li> </ul>

Map reference	Locations	Activity
8	Warringah Freeway between Ridge Street and Ernest Street, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>• sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul> <p><b>Falcon Street southbound bus on ramp:</b></p> <ul style="list-style-type: none"> <li>• establishing site and demolishing existing bridge</li> <li>• tree clearing</li> <li>• rock cutting and excavating</li> <li>• constructing new retaining walls</li> <li>• installing bridge parapets</li> <li>• installing safety handrails and scaffolding</li> <li>• formwork and concrete pouring</li> <li>• girder and precast segment lifts</li> <li>• installing drainage</li> <li>• constructing pavement</li> </ul> <p><b>Mainline – southbound outer carriageway:</b></p> <ul style="list-style-type: none"> <li>• strengthening of bridge abutments</li> <li>• cutting into rock walls</li> <li>• excavating and drainage installing</li> <li>• utility and ITS trenching and installing</li> <li>• constructing pavement</li> </ul> <p><b>Falcon Street pedestrian bridge:</b></p> <ul style="list-style-type: none"> <li>• establishing site</li> <li>• tree clearing</li> <li>• site investigating</li> <li>• demolishing existing bridge</li> <li>• rock cutting and excavating</li> <li>• installing drainage</li> <li>• rock bolting</li> <li>• installing safety handrails</li> <li>• form work and concrete pours</li> <li>• lifting girders and precast segments</li> </ul> <p><b>Falcon Street off ramp:</b></p> <ul style="list-style-type: none"> <li>• implementing traffic changes, including linemarking and installing temporary barriers</li> <li>• installing drainage</li> <li>• constructing retaining walls</li> <li>• constructing new pavement</li> </ul>
9	Temporary construction site between Ridge Street, Warringah Freeway and St Leonards Park, North Sydney	<p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>• concreting</li> <li>• delivering oversized plant and equipment</li> <li>• excavating</li> <li>• removing spoil</li> <li>• installing temporary acoustic shed</li> </ul> <ul style="list-style-type: none"> <li>• earthworks</li> <li>• installing temporary site offices</li> <li>• installing temporary water treatment plant</li> <li>• soil nailing and concrete reinforcing</li> <li>• installing planks</li> </ul>
10	Alfred Street North between Ridge Street pedestrian bridge and Merlin Street, Neutral Bay	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>• locating services and utilities</li> <li>• inspecting existing infrastructure</li> <li>• investigating geotechnical and pavement</li> </ul> <ul style="list-style-type: none"> <li>• installing drainage pits and pipes</li> <li>• sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>
11	Falcon Street between Moodie Street and Merlin Street and Falcon Street pedestrian bridge, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>• locating services and utilities</li> <li>• inspecting existing infrastructure</li> <li>• trimming vegetation</li> <li>• investigating geotechnical and pavement</li> <li>• surveying</li> <li>• constructing temporary and permanent pavements</li> </ul> <ul style="list-style-type: none"> <li>• installing concrete safety barriers</li> <li>• altering existing line marking</li> <li>• installing signage</li> <li>• installing ITS cabling</li> <li>• sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>
12	Miller Street and Falcon Street intersection, North Sydney	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>• locating and relocating services and utilities</li> <li>• inspecting existing infrastructure</li> <li>• surveying</li> <li>• investigating geotechnical and pavement</li> <li>• installing concrete safety barriers</li> </ul> <ul style="list-style-type: none"> <li>• altering existing line marking</li> <li>• constructing new footpaths and pavements</li> <li>• constructing retaining walls</li> <li>• sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>
13	Ernest Street and Merlin Street intersection, Cammeray and Ernest Street between Anzac Avenue and Park Avenue, Cammeray	<p><b>WFU:</b></p> <p><b>Within freeway, near Ernest Street bridge:</b></p> <ul style="list-style-type: none"> <li>• excavating bridge foundations</li> <li>• starting bridge support work</li> </ul> <p><b>Ernest Street shared user bridge:</b></p> <ul style="list-style-type: none"> <li>• installing drainage and utilities</li> <li>• rock bolting</li> <li>• installing safety handrails and scaffolding</li> <li>• bridge works, including form work and concrete pours</li> <li>• piling</li> <li>• lifting girders and precast segments</li> <li>• constructing retaining wall</li> </ul> <p><b>Ernest Street underpass:</b></p> <ul style="list-style-type: none"> <li>• piling of underpass abutments</li> <li>• constructing abutments</li> <li>• installing precast concrete planks</li> <li>• constructing bridge deck and approach slabs</li> <li>• installing utilities</li> </ul> <p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>• CCTV sewer investigations</li> </ul>

Map reference	Locations	Activity
14	Cammeray temporary construction site	<p><b>WHT:</b></p> <ul style="list-style-type: none"> <li>locating and installing utilities and services</li> <li>geotechnical and pavement investigating</li> <li>surveying</li> <li>delivering oversized plant and equipment</li> <li>delivering precast concrete segments</li> <li>installing temporary ventilation equipment for tunnelling</li> </ul> <ul style="list-style-type: none"> <li>installing scaffold footbridge</li> <li>installing tunnel plant</li> <li>concreting</li> <li>constructing pavement</li> <li>tunnelling</li> <li>installing a temporary water treatment plant</li> <li>installing a temporary acoustic shed</li> <li>installing services</li> <li>installing temporary site offices</li> </ul>
15	Cammeray temporary construction site	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>installing stormwater drainage</li> <li>shoring, plank installing and decking</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul> <p><b>Miller Street southbound on ramp:</b></p> <ul style="list-style-type: none"> <li>establishing site including earthworks to create space for piling work</li> </ul>
16	Warringah Freeway Ernest Street to Miller Street, Cammeray	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>locating services and utilities</li> <li>inspecting existing infrastructure</li> <li>investigating geotechnical and pavement</li> <li>surveying</li> <li>installing concrete safety barriers</li> <li>altering existing line marking</li> <li>constructing pavement</li> <li>excavating</li> <li>trenching and cable installation</li> <li>installing drainage</li> <li>demolishing kerbs, traffic islands and medians</li> <li>installing moveable median</li> <li>removing gantry</li> <li>removing street lighting</li> </ul> <ul style="list-style-type: none"> <li>constructing pavement</li> <li>line marking</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul> <p><b>Miller Street northbound off ramp</b></p> <ul style="list-style-type: none"> <li>earthworks and constructing pavement</li> <li>installing drainage and retaining walls</li> </ul> <p><b>Tunnel portals near the Ernest Street bridge:</b></p> <ul style="list-style-type: none"> <li>concreting</li> <li>installing drainage</li> <li>piling</li> <li>installing planks</li> <li>excavating</li> </ul>
17	Miller Street between Rosalind Street and Amherst Street and Miller Street southbound on ramp	<p><b>WFU:</b></p> <p><b>Miller Street southbound on ramp:</b></p> <ul style="list-style-type: none"> <li>establishing site</li> <li>piling</li> <li>constructing Miller Street on ramp</li> <li>excavating, earthwork and rock breaking</li> </ul> <ul style="list-style-type: none"> <li>concrete works</li> <li>installing barriers, handrails and scaffolding</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>
18	Warringah Freeway between Miller Street and Willoughby Road, Naremburn	<p><b>WFU:</b></p> <ul style="list-style-type: none"> <li>locating services and utilities</li> <li>inspecting existing infrastructure</li> <li>clearing/trimming vegetation and trees</li> <li>surveying</li> <li>installing concrete safety barriers</li> <li>altering existing line marking</li> <li>excavating</li> </ul> <ul style="list-style-type: none"> <li>trenching and cable installation</li> <li>installing drainage</li> <li>installing gantries and gantry signage</li> <li>constructing pavement</li> <li>noise wall and retaining wall preparation works</li> <li>sign gantry work, including piling, concrete work, steel erection and excavation</li> </ul>

# Warringah Freeway Upgrade and Western Harbour Tunnel work zones



Map reference	Locations
1	Warringah Freeway between Sydney Harbour Bridge, Milsons Point and North Sydney Ridge Street, North Sydney
2	Arthur Street, Pacific Highway, Mount Street, Alfred Street North, High Street, Lavender Street, Whaling Road, North Sydney
3	Alfred Street North between Mount Street bridge and Ridge Street, Neutral Bay
4	Berry Street, Pacific Highway to Arthur Street, North Sydney
5	Berry Street on ramp to Warringah Freeway northbound, North Sydney
6	Ridge Street temporary construction site, North Sydney
7	Ridge Street and Miller Street, North Sydney
8	Warringah Freeway between Ridge Street and Ernest Street, North Sydney
9	WHT temporary construction site between Ridge Street Warringah Freeway and St Leonards Park, North Sydney



Map reference	Locations
10	Alfred Street North between Ridge Street and Merlin Street, Neutral Bay
11	Falcon Street between Moodie Street and Merlin Street and Falcon Street pedestrian bridge, North Sydney
12	Miller Street and Falcon Street intersection, North Sydney
13	Ernest Street and Merlin Street intersection, Cammeray and Ernest Street between Anzac Avenue and Park Avenue, Cammeray
14	WHT Cammeray temporary construction site
15	WFU Cammeray temporary construction site
16	Warringah Freeway between Ernest Street and Miller Street, Cammeray
17	Miller Street between Rosalind Street and Amherst Street and Miller Street southbound on ramp
18	Warringah Freeway between Miller Street and Willoughby Road, Naremburn



## Traffic changes

To ensure the safety of all road users and our workers, there will be some temporary traffic changes and temporary lane closures that may affect travel times. Please keep to speed limits and follow the direction of traffic controllers and signs.

For work located on Warringah Freeway or near Sydney Harbour Tunnel, Sydney Harbour Bridge or Western Harbour Tunnel we will work together to coordinate our work with predetermined road closures.

For more information on key traffic changes and how we manage construction traffic, including maps, please see our traffic changes page at [nswroads.work/wfu-traffic](https://nswroads.work/wfu-traffic).

## Subscribe to receive community updates

Stay in touch and keep up to date with all the activity in your area as we continue to upgrade the Warringah Freeway and build the Western Harbour Tunnel. Contact us via the details below to subscribe to email updates today.

## Out of hours work survey

We welcome any queries or feedback you may have regarding our out of hours work plans. Use the QR code below to complete our survey. Please include the work location (as outlined in the table provided). Your feedback will help us to identify if there are any opportunities to further reduce the impacts of our work. Please contact us if you wish to complete a hard copy of the survey.



To complete the survey please scan the QR code.



### For the latest traffic updates

Call 132 701

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Download the app: Live Traffic NSW

## Contact us

If you have any questions or to make a complaint please use the contact details below:



1800 931 189



[whtbl@transport.nsw.gov.au](mailto:whtbl@transport.nsw.gov.au)



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Warringah Freeway  
Upgrade



Western Harbour  
Tunnel