

Tonkin Gap Project and Associated Works



We are planning for noise walls and other noise mitigation measures as part of the development for the Tonkin Gap Project. Initial noise monitoring shows that in some locations along Tonkin Highway, traffic noise already marginally exceeds acceptable levels.

During the detailed design process, we will design noise walls to reduce noise levels to within policy requirements, as has been done on adjacent Gateway WA and NorthLink WA projects.

Noise and Screen Walls

Will I be consulted regarding the location and design of noise walls?

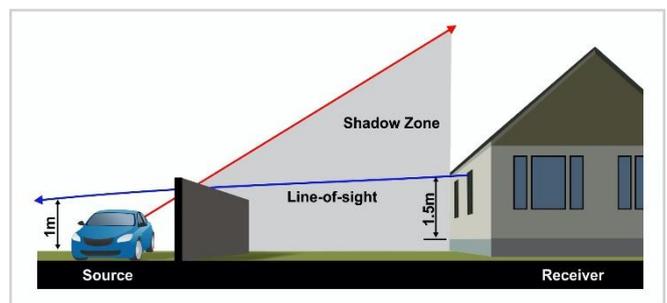
Yes, if a noise wall is going to be located on your property boundary. This will be managed by our contractor as part of the detailed design process, and is likely to be in late 2020 or early 2021.

What is a noise wall and how does it work?

A noise wall is a structure built between the road and a residential property. It improves amenity for surrounding residents by reflecting sound waves from the road, forcing sound to travel over and around the edges of the walls, thereby reducing the amount of noise that reaches nearby homes.

The level of noise reduction achieved through the installation of noise walls is dependent on a number of factors, including length, height and location of the wall.

A noise wall deflects road noise away from homes



What is a screen wall?

Screen walls protect residents' privacy from passing traffic at the rear of their property only. We will consider screen walls in cases where the construction has reduced the existing level of privacy.

Screen walls may be made of similar material to noise walls and are located between the road and a residential property.

Why do we need noise/screen walls?

Monitoring and modelling undertaken during the planning phase of this project has identified the need to install noise and/or screen walls to reduce traffic noise and provide privacy at some locations. We will undertake further noise and screen modelling during the detailed design phase to establish exactly where noise and/or screen walls are required once the road design is finalised. We will build noise walls to comply with the noise level limits required by the Western Australian Planning Commission (WAPC) Road and Rail Noise Policy (State Planning Policy 5.4).

What will the noise/screen walls look like?

Noise and screen walls are usually made of concrete panels and steel posts. Generally, the residential side of the wall is a painted concrete finish. The noise/screen walls on the roadside are usually a combination of plain and patterned and have a painted finish, with anti-graffiti coating. The colour and design will be in accordance with the overall urban landscape design for the project.

Where will the noise/screen walls be located?

We will install noise and screen walls where required along Tonkin Highway between the road and residential properties, either adjacent to the road or along the road reserve boundary.

The positioning of the walls relative to residential properties is dependent on the road design and the available road reserve. This will be determined as part of the detailed design phase in late 2020 or early 2021.

How high will the noise/screen walls be?

The height of the noise/screen walls will vary along the alignment depending on the distance between residential properties and the highway, and the location of the properties in relation to the new road levels. The noise walls are designed to reduce the impact of future predicted noise levels along the highway.

Where walls are located on property boundaries, we limit the height of solid walls to 3 metres and provide transparent/translucent panels above that level. Noise wall heights are typically limited to a maximum of five metres on road projects in Perth.

How do you know where to build the noise walls?

Mitigation measures will ensure that the highway design, including noise walls and road surfacing treatments, meet noise limits set by the Western Australian Planning Commission policy SPP5.4.

Once the detailed design is complete and further modelling is undertaken, we will be able to confirm the placement of noise walls.

How will you construct the walls?

In locations where the wall is offset from the existing residential fence, the construction team will be able to undertake the work from the road reserve. They will make every effort to reduce the impacts of construction.

Where walls are to be built on property boundaries, the construction team will seek permission to access the property and arrange to construct the walls with minimum impact on residents.

How do I register for updates on this project?

SUBSCRIBE for email updates at:

<https://project.mainroads.wa.gov.au/home/current/tonkingetoguildford/Pages/default.aspx>