

Lismore Heritage Bridges

Terania St underbridge

Demolition Scope

1.0 Background

Terania Street underbridge (UBN62837A) is a 12-span timber girder transom-top bridge which carries the nonoperational Casino to Murwillumbah Railway over Terania Street in Lismore. Terania Street is a classified regional road and one of the main routes between the towns of Lismore and Kyogle and Nimbin. The bridge is on the State Heritage Register, is S170 listed by Transport for NSW, and included in the Local Environment Plan.

2.0 Proposed Demolition Scope

The scope documented below is the proposed scope for the demolition of the bridge superstructure. The contractor engaged to demolish the bridge will be required to prepare a full demolition plan and associated documents before demolition is to proceed. This will include design of a propping system for the abutments, if required by the demolition calculations and engineering report. The purpose of this scope is to inform the Heritage Act application. This scope is for the complete removal of the structure, including rail system, superstructure, piers, and pile caps.

3.0 Proposed Scope of Work

3.1 Scope of work: (in likely progression of works)

3.1.1 Rail System

1. Break the rail at the nearest joint on the embanked area either side of the bridge.
2. Remove the rail between the broken joints, including all rail over the bridge structure.
3. Remove all bridge transoms.
4. Removed suitable rail sections are to be stored in a location nominated by TfNSW for reuse/recycling.

3.1.2 Superstructure

1. Remove bridge girders (12 spans x 3ea).
2. Remove corbels (11 piers x 3ea).
3. Removed suitable superstructure timbers are to be stored in a location nominated by TfNSW for reuse/recycling

3.1.3 Piers

1. Remove each of Piers 1 to 11 including columns, headstock, cross bracing, walers and fixings.
2. Removed pier timbers are to be stored in a location nominated by TfNSW for reuse/recycling

3.1.4 Footings

1. Break-out footings in road reserve only to below formation level, instate road formation and asphalt paving.

3.1.5 Abutments

1. To be stabilised and left in-situ. (Long Term propping system to be install if required to stabilise the abutments.

3.1.6 New safety provisions (non-significant fabric)

1. Temporary Props and traffic barriers to be removed.
2. Anti access screens to be removed.

3.1.7 Demolition Materials.

1. A recycling and reuse plan will be developed as part of the demolition documentation. This will only include suitable salvageable timbers. These will be marked before removal from the bridge and appropriate care taken during demolition.
2. Salvageable materials will be delivered to the nominated TfNSW storage location.

Refer to figure 1 and figure 2 for a visual representation of the proposed work scope.



Figure 1 - Site Location Plan

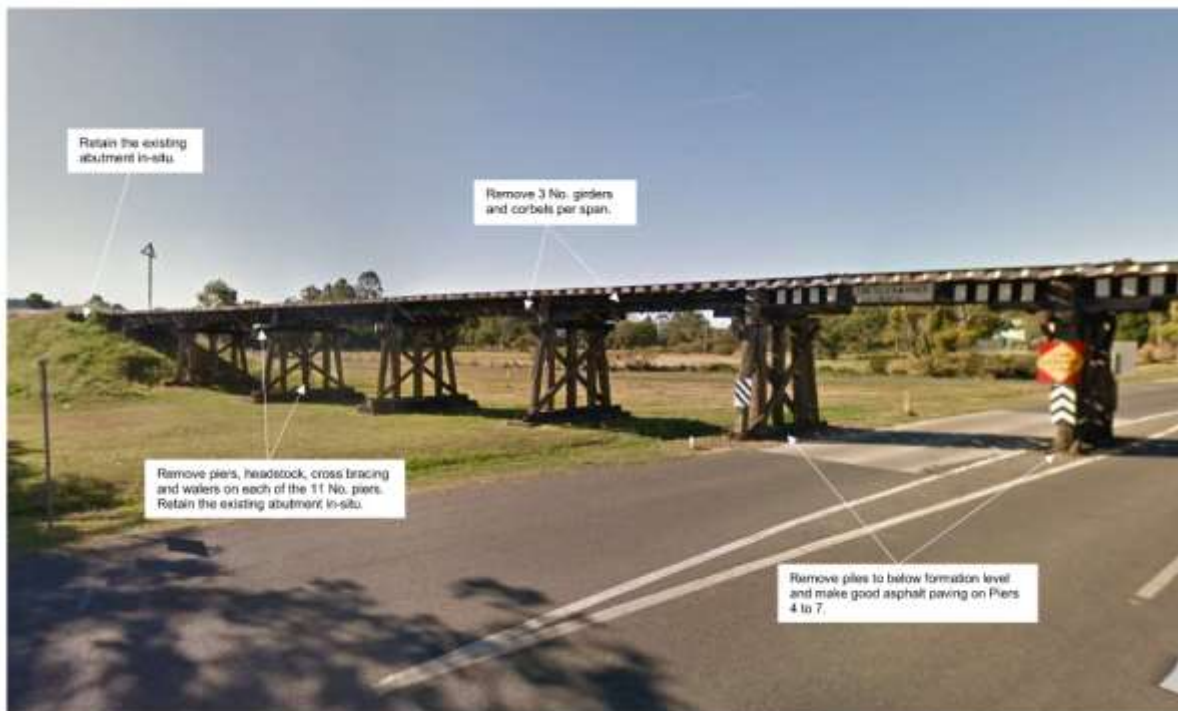


Figure 2 – Elevation



Figure 3 – Current Road Closure March 2024