THE CITY OF TEA TREE GULLY

› Technical Specifications

SURFACES

DESCRIPTION: FLOODWAY - GENERAL ARRANGEMENT FOR LOW VOLUME RURAL ROADS

CODE: SUR27 01/05/2025

APPLICATIONS

Regional	○
District	○
Neighbourhood	○
Local	○
Main Roads	○
Local Roads	●

PERFORMANCE CRITERIA

Details are for the upgrading reconstruction of an exisiting floodway on a one lane rural road only. Details are not to be used for new construction unless approved by Councils Engineer.

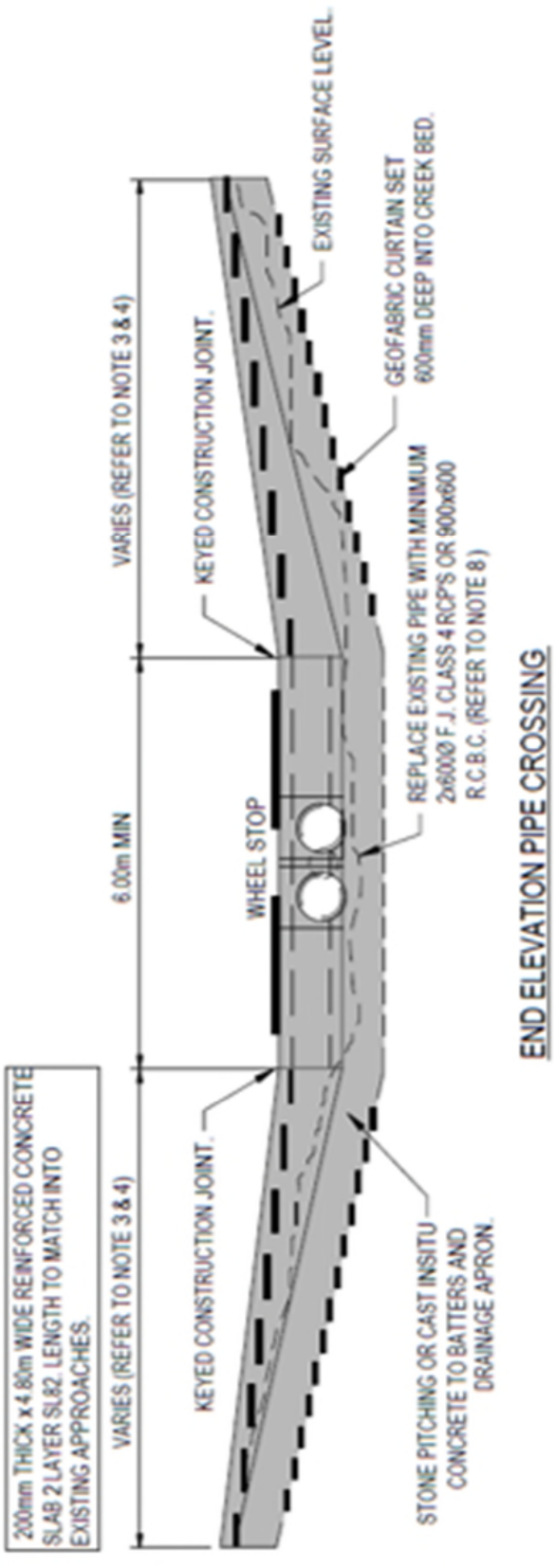
IMAGE/S

Images are indicative of the style, not a specific brand. Council's procurement policy must be followed when selecting and purchasing items.

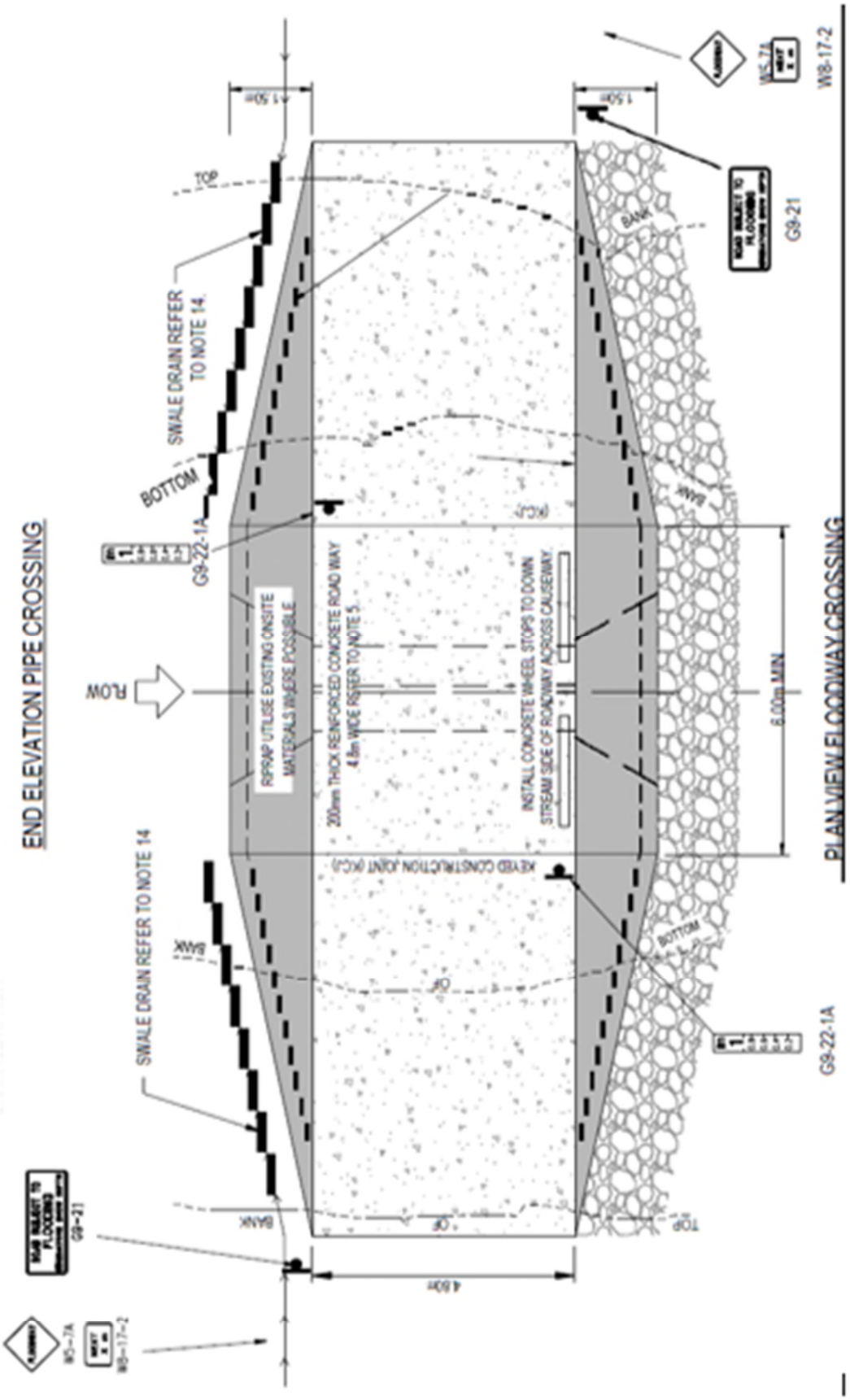
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MATERIALS	Riprap and rock pitch to utilise existing material on site where possible. Riprap to be selected angular rocks well grade D50 300mm rocks placed 450mm deep. Area, size and location to be determined on site by Site Superintendent. Select fill to be PM220 OGQR compacted to 96 modified (one (1) test each side of culvert).
FINISHES	Geofabric to be non woven BIDIM A24 or equivalent meeting strength and permiability requirements.
VARIATIONS	These floodway details pertain to 90 degree road crossing. Where at skewed crossing is required, the general arrangements may be modified to suit.
OPTIONS	Floodway is designed to cater for Q10 flows 5m. With an assumed down stream standing water level of 150mm above invert level and may not suit all sites. Site approval is to be obtained from the Manager Project Management and Construction prior to commencing construction. Temporary construction of side roads are to be determined on site by the Site Superintendent. Box culvert preferred for permanent stream where fish passage is required.
INSTALLATION INSTRUCTIONS	Roadway approached floodway: - Design and construct in accordance with Austroads “Guide to Road Design’ Part 3 - Geometric Design and to the satisfaction of Council / Site Superintendent. - Causeway and approaches are to be 200mm thick reinforced concrete with SL82 mesh top & bottom (75mm bottom cover) with construction joints at 5m centres (max.) or otherwise shown. Concrete to be N32 cured for 7 days where a side road is constructed or N50 cured for 12 hours where a side track is not constructed. - Approach grades are to be 1:20 max. matching into existing road levels. Length of causeway approaches are to be determined on site by Council / Site Superintendent and to match into existing road levels at the top of the banks. Culvert crossing is to be reconstructed to match existing levels. Clear and reshape creek bed where required. Install 150mm high wheel stops to down stream side of roadway only across causeway at 1.0m spacing.
FURTHER INFORMATION	Batter treatment, culvert headwall and apron to be keyed 600mm into creek bed. Batters to be shaped to macth into existing creek channel. Rock pitching to batters and pipe surround shape pitching to match into creek floor channel capacity. Precast headwalls or concrete cast insitu 150mm thick (nom.) may also be used. Rock Pitching order of works: - place geofabric and insert apron ends 600mm (min.) into natural material - place rockstone on geofabric - apply concrete to rock surfaces and crevices - wash latent from rock surfaces
OTHER INFORMATION	Sign Posting: - Floodway - Next ...km (w8-17-2) - Road subject to flooding - indicators shown depth (G9-21) - Depth Indicator (G9-22) - Guide Posts, warning signs and depth indicators are to be installed as per the manual of uniform traffic control devices.

OTHER INFORMATION	Adjoining road swale drains are to be cleaned and reshaped to suit. Swale drain treatment: Swale drain Treatment - 0.4-2 Concrete lined - 2-5 Grassed lined - 5-10 Rock lined - 10 or greater Concrete lined



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