

PLAN 5

PLANNING APPLICATION PLN-20-0189

EVANDALE ROAD FROM HOBART ROAD TO HUDSON FYSH DRIVE, WESTERN JUNCTION

ATTACHMENTS

- A Application & plans, correspondence with applicant
- B Responses from referral agencies
- C Representations & applicant's response

PLANNING APPLICATION Proposal

Description of proposal: Evandale Main Road Duplication

.....
.....
.....
.....

(attach additional sheets if necessary)

If applying for a subdivision which creates a new road, please supply three proposed names for the road, in order of preference:

1..... 2..... 3.....

Site address: **Various land parcels along Evandale Road - please see attached planning report and landowner list**

.....

CT no:

Estimated cost of project \$ **\$8.27million** *(include cost of landscaping, car parks etc for commercial/industrial uses)*

Are there any existing buildings on this property? Yes / No **NO**
If yes – main building is used as

If variation to Planning Scheme provisions requested, justification to be provided:

Please see attached planning report

.....
.....
.....
.....

(attach additional sheets if necessary)

Is any signage required?

(if yes, provide details)



Salamanca Building Parliament Square
4 Salamanca Place, Hobart TAS
GPO Box 536, Hobart TAS 7001 Australia
Email info@stategrowth.tas.gov.au Web www.stategrowth.tas.gov.au
Ref: D20/162080

Mr Des Jenning
General Manager
Northern Midlands Council
13 Smith Street
LONGFORD TAS 7301

Dear Mr Jennings

Crown Landowner Consent – Development Application - Evandale Main Road Duplication

I refer to Crown landowner consent required for the above development application for duplication of Evandale Main Road from the Breadalbane roundabout to the entrance of the Launceston Airport.

I, Tim Leaman, Manager Network Planning, State Roads, the Department of State Growth, having been duly delegated by the Minister under Section 52 (1F) of the *Land Use Planning and Approvals Act 1993* (the Act), and in accordance with the provisions of Section 52 (1B) (b) of the Act, hereby give my consent to the making of the application, insofar as it affects the State road network and any Crown land under the jurisdiction of this Department.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'T Leaman'.

Tim Leaman
MANAGER NETWORK PLANNING

Delegate of
Minister for Infrastructure and Transport
Michael Ferguson MP

1 July 2020

Evandale Main Road Duplication

Report Supporting a Planning Permit Application

August 2020

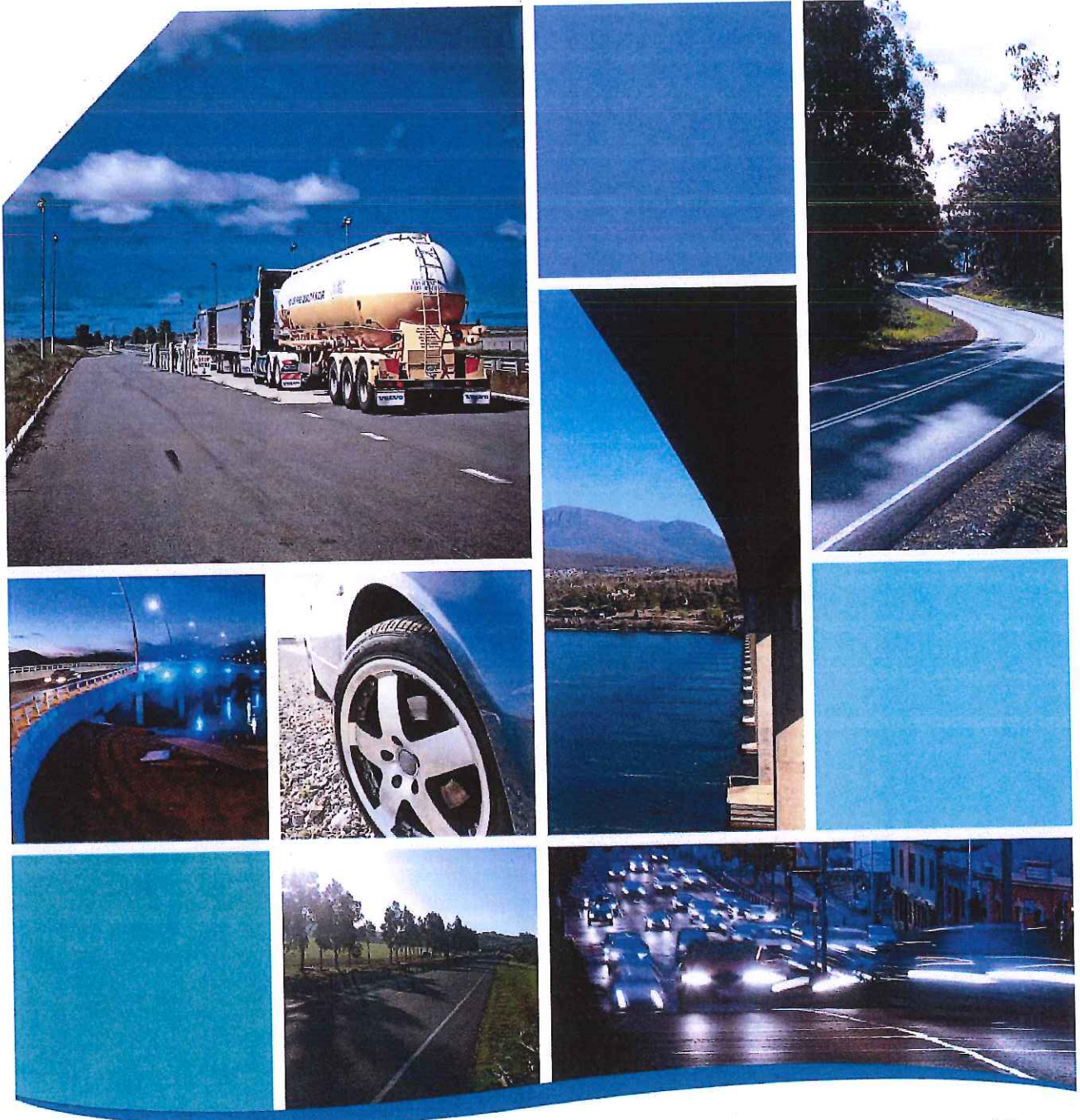


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1. Introduction

The Tasmanian Government intends to upgrade Evandale Road to four lanes, from the Breadalbane roundabout to the entrance to the Launceston Airport. This project is known as the Evandale Main Road Duplication, and is part of the Tasmanian Government's Roads Package to Support Tasmania's Visitor Economy. The proposed upgrades will cater for road network growth. The development will include new trees to beautify the approach to the Breadalbane roundabout and will incorporate Water Sensitive Urban Design features to create attractive habitats in the drainage areas alongside the road. An overview of the extent of the proposed road upgrades are shown in Figure 1 below, which is in the Northern Midlands Council area.

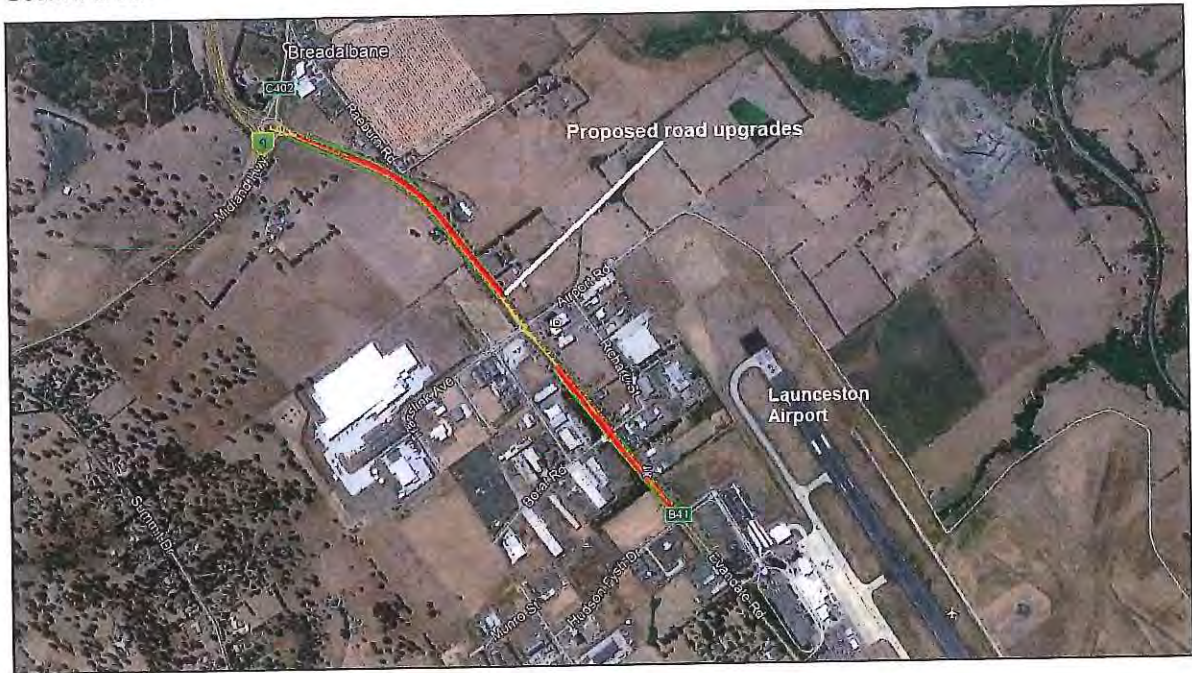


FIGURE 1 LOCATION OF PROPOSED ROADWORKS

2. Purpose

The purpose of this report is to support a planning permit application for roadworks for the proposed Evandale Main Road Duplication, the location of which is shown in Figure 1 above. The proponents are the Department of State Growth (State Growth).

3. Strategic Rationale

Duplicating Evandale Main Road will improve travel time reliability, cater for the growing number of passenger and freight vehicles travelling on the road, and provide a better first impression for road users arriving at Launceston from the airport.

The project is consistent with the Northern Midlands Council's Strategic Plan 2017-2027, which aims to ensure that strategic, sustainable infrastructure is progressive. It is also consistent with the Northern Tasmania Regional Land Use Strategy's policy for Regional Infrastructure Network (E.4), which supports transport planning initiatives that improve accessibility.

4. Project Overview

4.1 Overview of works

The proposed road works involve adding two additional lanes from the roundabout at the Evandale Road – Hudson Fysh Drive to just before the Breadalbane roundabout, as shown in Figure 2 below. Evandale Road is mostly a Category 2 road, with the exception of the area fronting 2 Hudson Fysh Drive. The road has a speed limit of 80km/h. It is also proposed to upgrade the single-lane Translink Avenue/ Evandale Main Road/ Richard Street roundabout to a two-lane roundabout. A channelised right turn lane to Boral Road will be introduced at the Boral Road/ Evandale Main Road/ Richard Street intersection. The Richard Street intersection will become left-in-left-out only.

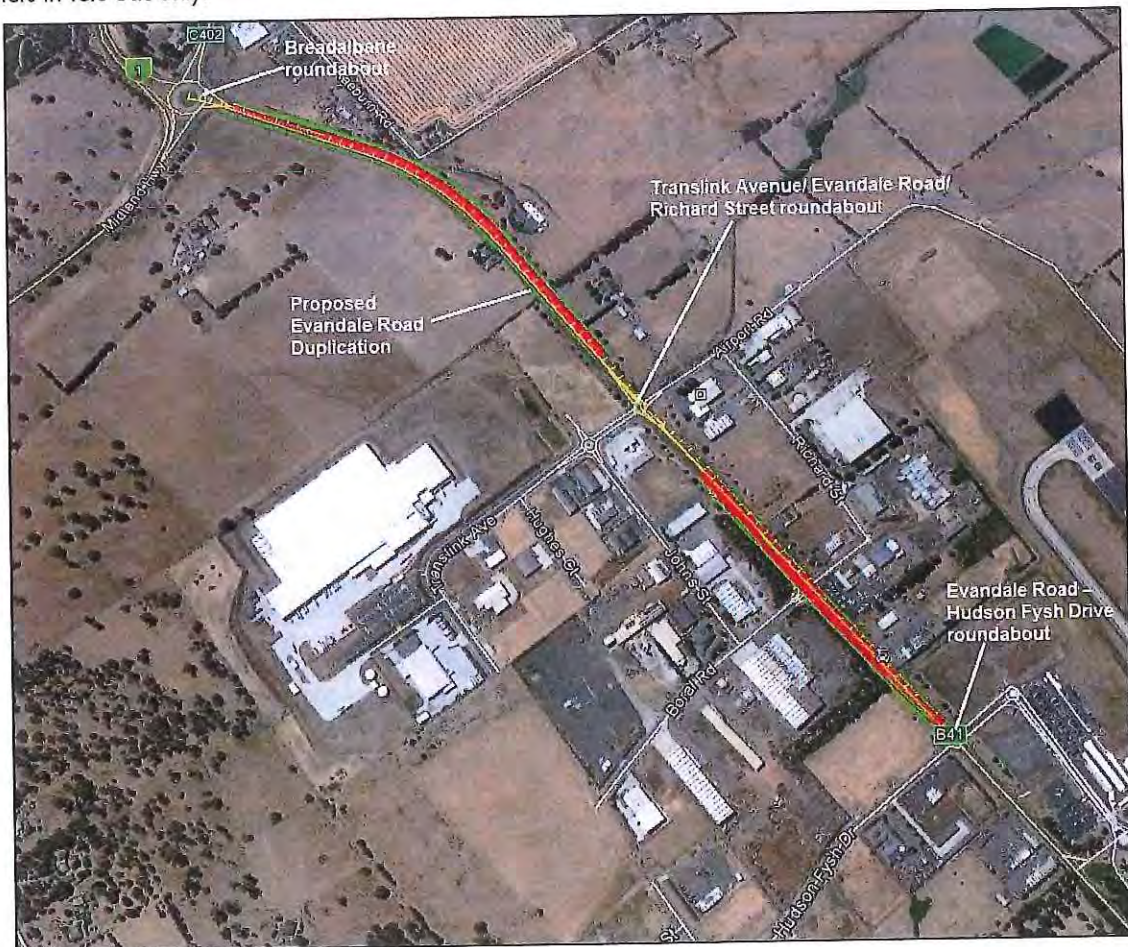


FIGURE 2 PROPOSED WORKS

4.2 Road Construction

The road will be widened and constructed with additional pavement, a waterproofing seal and 40mm asphalt. The road design incorporates 2m-wide shoulders on either side. Figure 3 below shows a typical cross section at the northern end of Evandale road, where the maximum depth of excavations will be 2.1m. As the road gets closer to the airport area, the topography is flatter. Full road construction details are in the proposed plans at Appendix A of this report.

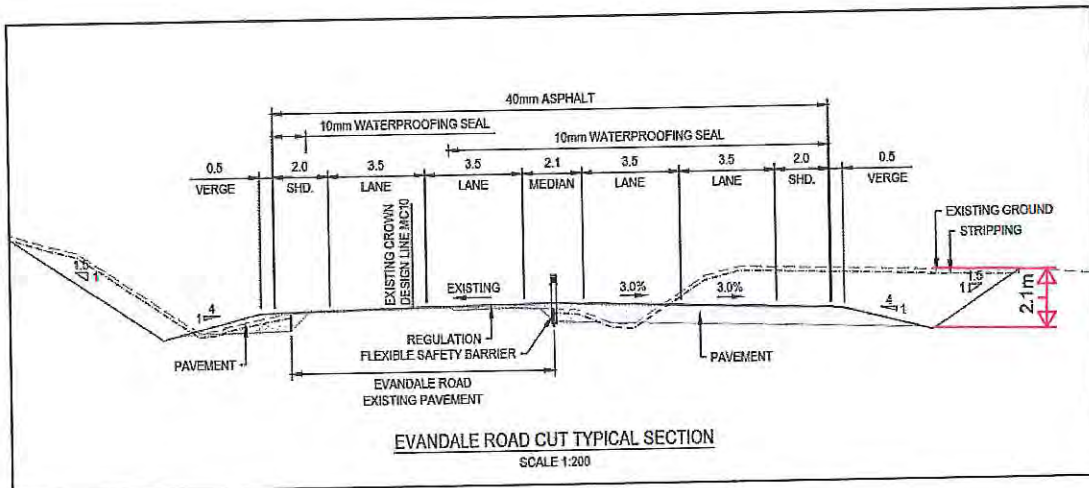


FIGURE 3 TYPICAL CROSS SECTION

4.3 Water Sensitive Urban Design

The proposed drainage system incorporates best practice Water Sensitive Urban Design features (full details are in the proposed plans at Appendix A). These features will mitigate the harmful environmental impacts of stormwater discharge and provide attractive roadside habitats that will enhance biodiversity including:

- two permanently-fenced frog ponds (wetlands) on either side of the road (see Figure 4 below), connected by an underground box culvert (to allow the passage of small fauna e.g. frogs);
- a bioretention swale drain at the eastern end of the road upgrades (see Figure 5 below), which will be connected by an underground box culvert to land on the other side of the road; and
- open vegetated roadside swale drains along the length of the road (see Figure 5 below).

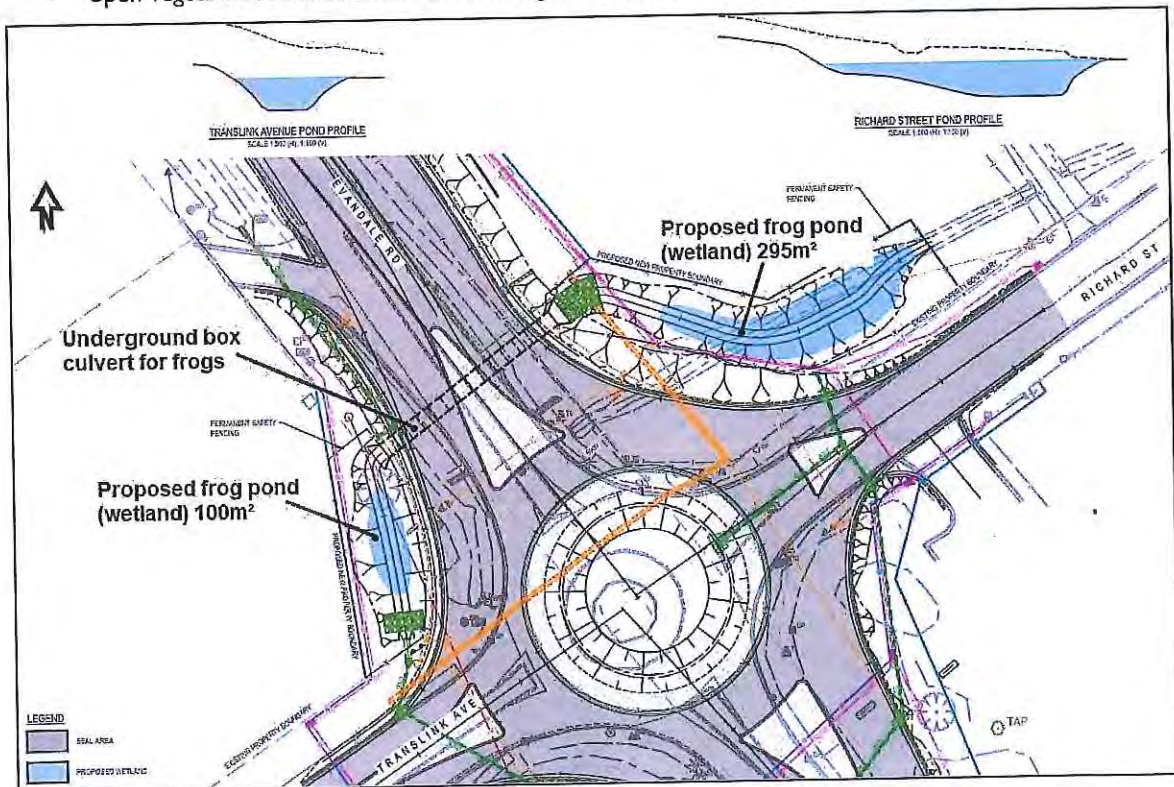


FIGURE 4 PROPOSED FROG PONDS (WETLANDS)

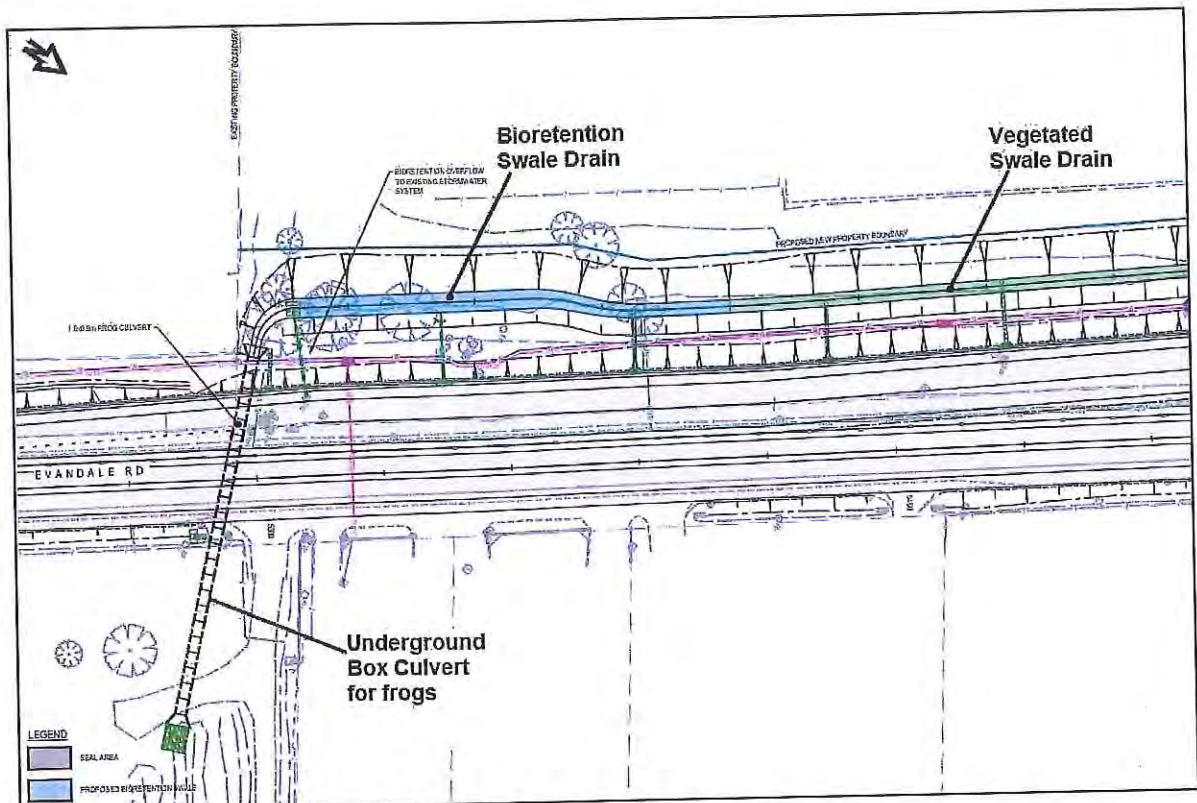


FIGURE 5 SWALE DRAINS AND CULVERT

4.4 Landscaping

To help beautify the area, the area approaching the Breadalbane roundabout will be planted with a single row of trees on either side of the road, as shown in the Evandale Road Duplication plan (an aerial layout) at Appendix A of this report. The trees to be planted are *Melaleuca ericifolia* (dwarf form), which will suit the low-lying, damp soil conditions, enhance the visual appearance of the road and will not attract the types of nesting birds that would interfere with airport operations. The trees will be planted into existing soils at tube stock size, guarded, staked, weed mat, fertilised, watered and mulched. The soil around the trees and exposed batters will be planted with a typical roadside grass mix, which can be easily and safely maintained. Once planted, these vegetated areas will be maintained by State Growth.

The frog ponds (wetlands) will be planted with a range of native monocot species in zones (i.e. permanently wet zone, seasonably inundated zone and usually dry margins). The ponds will contain additional '3D' habitat elements placed in permanently and periodically wet zones – i.e. logs and rocks – to provide a diversity of habitat features and shelter for suitable for frogs. The bioretention swale drain and other open vegetated swale drains will also be planted with appropriate monocot species, chosen to be tolerant of seasonal drying as well as brief winter inundation. These species are palatable to local wildlife and will allow for easy selective herbicide application, should broadleaf weeds or woody weeds establish. The species chosen will be not grow higher than 1.5m. All planting will be carried out in accordance with the *WSUD Engineering Procedures for Stormwater Management in Tasmania 2012*. Once planted, these vegetated areas will be maintained by State Growth.

No weeds will be planted. In order to prevent the spread of declared weeds within and from the municipality, construction machinery will be cleaned prior to first entry to the site as well as when leaving. Any weed material or contaminated soil will be removed from the site and disposed of appropriately to prevent the spread of weeds and diseases. Construction machinery will be cleaned as described in *DPIPWE 2004 Washdown Guidelines for Weed and Disease Control Edition 1*. A weed management plan can be submitted to Council on request.

4.5 Active Transport

The proposed works maintain the current Active Transport facilities. In terms of cycling and due to its location, Evandale Road is mostly used by long-distance, recreational cyclists.

The proposal to add additional lanes will relieve traffic pressure along the road. This, together with the 2m-wide shoulders, will improve road safety for all cyclists using the road. In doing so the proposed road upgrades will improve the connectivity of long distance cycling routes in the area.

4.6 Land Acquisition

The proposed works will mostly take place within the existing road reserves, and will traverse a number of private properties. State Growth will negotiate the acquisition of the relevant portions of land. The affected properties are shown blue in the proposed plans at Appendix A. The land acquisition process will begin in July 2020. The process will be administered under the Land Acquisition Act 1993, which is not subject to normal subdivision requirements under the Planning Scheme.

4.7 Construction Timing and Traffic Management

Works are planned to commence in November/2020 and to be completed by December/2021. Once a planning permit has been issued, a Traffic Management Plan (TMP) will be prepared in accordance with State Growth's *Traffic Control for Works on Roads Tasmanian Guidelines 2011*. The TMP is not assessed under the planning permit process. The TMP will ensure that the project maintains a safe workplace for workers and to safely guide road users through work sites. The traffic management measures implemented by the TMP will also comply with *Australian Standard – AS1742.3, Manual of uniform traffic control devices, Part 3: Traffic control for works on roads*.

State Growth will require the traffic management contractor to maintain one lane of traffic in each direction at all times during peak hours and at other times short duration lane closures will be permitted subject to any traffic delays and the operations of Launceston Airport and the TRANSlInk Industrial Precinct.

5. Stakeholder Engagement

5.1 Adjoining Landowners

All affected landowners have been informed of the development and State Growth have carried out extensive engagement with adjoining landowners to negotiate various land acquisitions, modified access arrangements and other works.

5.2 Relevant Authorities and Service Providers

State Growth and pitt&sherry have had discussions and negotiations with the relevant authorities and service providers, including Northern Midlands Council, TasNetworks, Telstra, NBN and Optus. TasWater will be informed during the planning permit application process. Consideration was given to:

- Continuity of essential services
- Minimal disruption to stakeholders during services alterations
- Consideration of likely construction scheduling
- Consideration for future services

The final design of relocated or modified utilities will be determined in consultation with the relevant authorities and service providers. As the project progresses, contact with the relevant authorities and service providers will be maintained.

6. Site description and Proposal

6.1 Locations

The south-east section of the roadworks is shown in Figure 6 below, which is an urbanised setting with development on either side of the road. This section begins at the roundabout at the Evandale Road – Hudson Fysh Drive passes through the TRANSLink Industrial Precinct before reaching the roundabout at Translink Avenue / Richard Street. The majority of the works will occur on the western side of the Evandale Road, where some land will be acquired. Minor works will occur on the eastern side. Roadside streetlights, utilities and signage will be relocated or upgraded, as indicated in the proposed plans at Appendix A of this report.

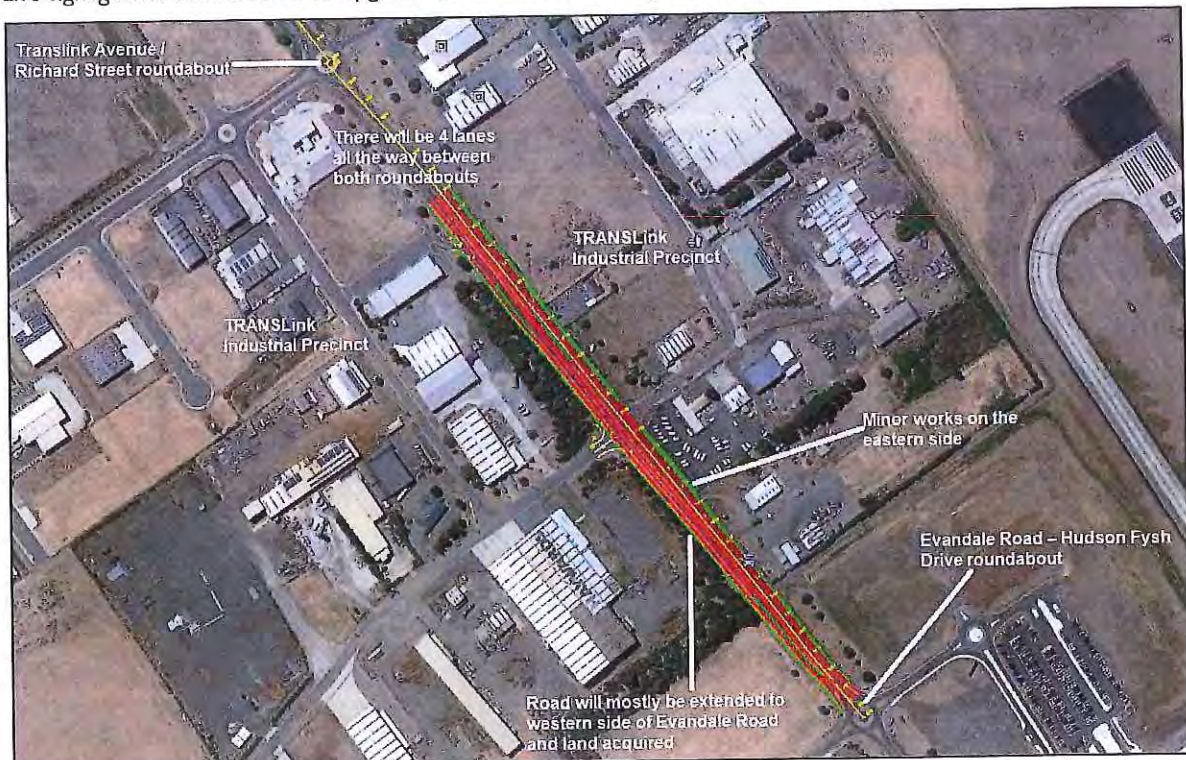


FIGURE 6 SOUTH-EAST SECTION OF THE ROADWORKS

As shown in Figure 7 below, between the Breadalbane roundabout and the Translink Avenue / Richard Street roundabout, the proposed road works will pass through agricultural land, on which there are a few single dwellings. The property known as Rathmolyn is to the south-west of the proposed works. However, the works on this side of the road will be confined to the road reserve and will not affect Rathmolyn. The road will be extended to the north-east, where land will be acquired to accommodate the works. The immediately adjacent land either side of the road is comprised of cleared roadside verge (raised embankments in places and flat in others). Roadside streetlights, utilities and signage will be relocated or upgraded, as indicated in the proposed plans at Appendix A of this report.

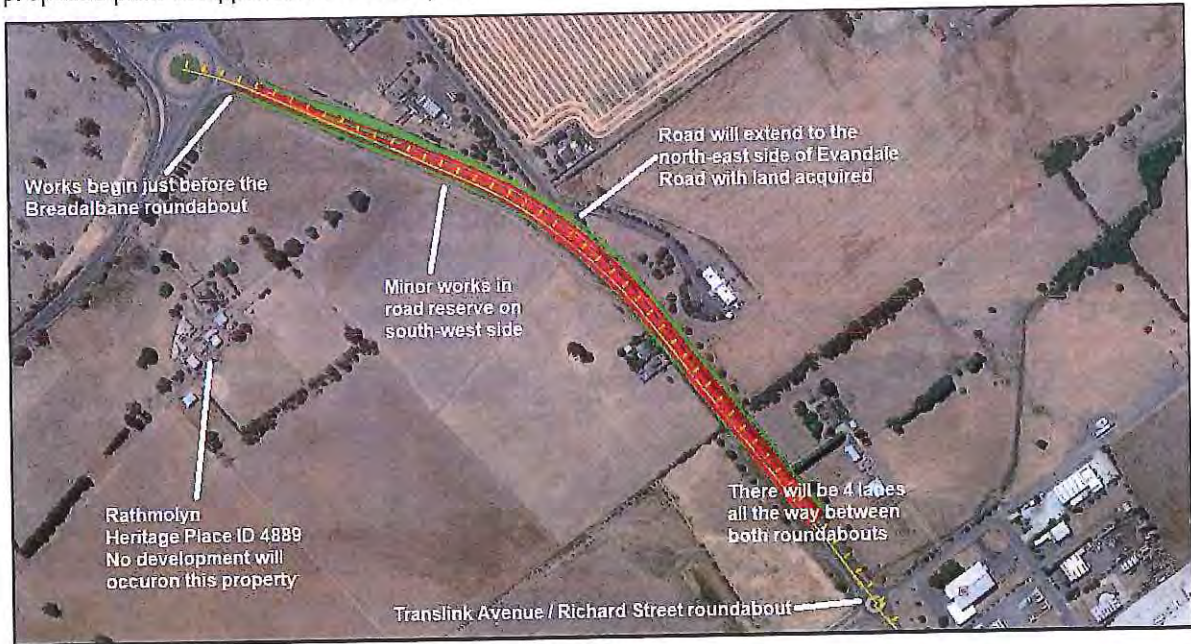


FIGURE 7 NORTH-WEST SECTION OF THE ROAD WORKS

6.2 Natural Values

A Natural Values Assessment (NVA) has been prepared and is located at Appendix B of this report.

6.2.1 Vegetation Communities

The NVA indicates that the proposed development area contains no threatened vegetation communities, identified under *Nature Conservation Act 2002* or the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

6.2.2 Flora

The NVA indicates that no threatened flora species, identified under the *Tasmanian Threatened Species Protection Act 1995* or the EPBC Act, have been recorded within 500m of the proposed development area.

6.2.3 Fauna

The NVA indicates that the initial survey detected no threatened fauna species, identified under the *Tasmanian Threatened Species Protection Act 1995* or the EPBC Act, within 500m of the proposed development area. However, as this area is within the core range of green and golden frog (*Litoria raniformis*), it is recommended that State Growth's management guidelines for this species should be applied. Given this, State Growth proposes frog ponds and a bioretention swale drain, which will be connected by an underground box culverts to allow easier passage for small fauna such as frogs. The culverts will be installed in accordance with State Growth's Green and Golden Frog Guidelines. This approach will be implemented by the construction contractor through compliance with an Environmental Management Plan (EMP) at the development stage. State Growth require EMP's for all projects. An EMP can be provided to Council on request.

6.3 Historic Heritage

A desktop study determined that the proposed development area contains no identified places, precincts or landscapes historic cultural heritage significance. Only one heritage listed property is adjacent the proposed works. This is the property known as Rathmolyn, which is located to the west of the proposed works at 1662 Midland Highway. The property is not listed under the Northern Midlands Interim Planning Scheme 2013 (the planning scheme) but is Place ID 4889 on the Tasmanian Heritage Register. As the proposed roadworks on the western side Evandale Road will be well-contained within the existing road reserve and set down at a lower level than Rathmolyn, this property will be unaffected by the development.

6.4 Potential landslide areas

Under the planning scheme, the proposed development area is not identified as being at risk of landslide.

6.5 Aboriginal Cultural Heritage

Under the planning scheme, the proposed road works will not affect an identified Archaeologically Significant Site. This means there is no requirement to address Aboriginal Cultural Heritage matters in the planning permit process. These matters will be addressed through Aboriginal Heritage Tasmania, which involves a separate assessment process.

6.6 Watercourses

As shown in Figure 8 below, there are three watercourses within 50m of the proposed roadworks. This means that the proposal must be assessed against the relevant provisions of the planning scheme's Water Quality Code (see sub-section 8.9.3 below).

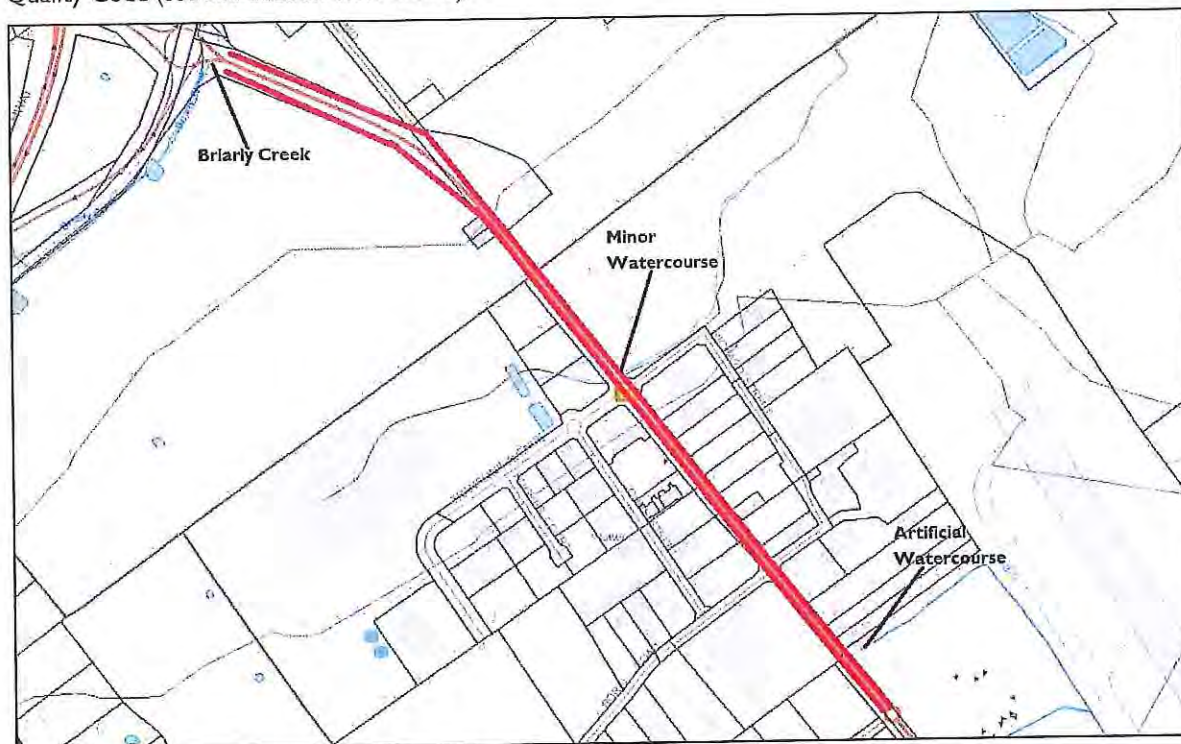


FIGURE 8 WATERCOURSES WITHIN 50M OF THE PROPOSED WORKS

6.7 Stormwater

A Stormwater Management Plan (SMP) has been prepared, and is located at Appendix C. The SMP indicates that the existing stormwater network, includes road drainage, crossing drains and detention basins, has been reviewed and does not have capacity to convey the 1% AEP storm event (with freeboard) for a fully developed catchment under the assumptions made.

The proposed drainage system incorporates best practice Water Sensitive Urban Design, that will mitigate the harmful environmental impacts of stormwater discharge and provide attractive roadside habitats that will enhance biodiversity including:

- two permanently-fenced frog ponds (wetlands) on either side of the road, connected by an underground box culvert (to allow the passage of small fauna e.g. frogs);
- a bioretention swale drain, which will be connected by an underground box culvert to land on the other side of the road; and
- open roadside swale drains alongside the road.

The proposed stormwater drainage system has been designed to capture and convey a 1% AEP design event with 500mm freeboard as per State Growth's T8 Drainage Specification. The system includes upgrades to the existing culverts, new large open drains, new kerb and gutter and new pit and pipes. Stormwater detention has been incorporated into the design and peak 1% AEP flows have been maintained at pre-development levels with regard to peak discharge to the Airport runway culverts.

The proposed road and drainage design complies with the requirements of the planning scheme, as demonstrated under subsections 8.95 and 8.93 below.

6.8 Soils

The development will take place on brown clayey soils developed on Tertiary basaltic remnants within the Launceston Basin on gently undulating to rolling land.

6.9 Noise

The Noise Assessment at Appendix D of this report has been prepared to address various standards under the planning scheme's Rural Resource Zone (subsection 8.8.2), Road and Railway Assets Code (subsection 8.9.1) and Translink Specific Area Plan (subsection 8.10).

The assessment is in accordance with the Tasmanian State Road Traffic Noise Management Guideline, which are used by State Growth to manage traffic noise on State Roads. The Guidelines have been prepared in consultation with Environment Protection Authority (Tasmania) and are available at:

http://www.transport.tas.gov.au/_data/assets/pdf_file/0017/111527/DSG_Traffic_Noise_Guidelines_20151029.PDF.

The Guidelines approach traffic noise mitigation decision making by firstly identifying "eligible scenarios", which are scenarios where mitigation will be considered, and then identifying "eligible buildings", which are specific buildings within an eligible scenario for which mitigation will be considered. There are also overarching 'tests' that the Guidelines reference, including reasonableness, practicality and cost-effectiveness of any proposed noise mitigation for when these scenarios occur.

The Noise Assessment was prepared during the period of COVID19 restrictions. A period when traffic noise was significantly lower than normal. Given this, new noise measurements were not undertaken. Instead, traffic noise measured at one location in 2018, following the completion of the Perth to Breadalbane Midland Highway duplication project were used to verify the accuracy of the Evandale Road model.

The results of the noise modelling indicate that the upgrade of Evandale Road between the Breadalbane Roundabout and the Launceston Airport will have a negligible impact on the traffic noise levels. This means that the noise impacts on the adjoining areas are acceptable and will not cause a hazard to the safe operation of Launceston Airport.

6.10 Traffic Impact Assessment

A Traffic Impact Assessment (TIA) is located at Appendix E of this report. It has been prepared in accordance with the Department of State Growth's publication Traffic Impact Assessments Guidelines and the Northern Midlands Council Interim Planning Scheme 2013. The findings presented within this report can be summarised as follows:

- As part of the Roads Package to Support Tasmania's Visitor Economy, it is proposed to upgrade Evandale Main Road to four lanes from the entrance of the Launceston Airport to the Breadalbane Roundabout
- It is also proposed to upgrade the single-lane Translink Avenue/ Evandale Main Road/ Richard Street roundabout to a two-lane roundabout and introduce a Channelised Right Turn (CHR) Lane to Boral Road at the Boral Road/ Evandale Main Road/ Richard Street intersection
- The proposed upgrades are expected to cater for the road network growth
- Upgrade of the Translink Avenue/ Evandale Main Road/ Richard Street roundabout results in it operating at a LOS C or better in 2031 compared to the LOS F expected under the existing layout
- The proposed upgrades will result in Boral Road and Richard Street at the Boral Road/ Evandale Main Road/ Richard Street intersection having restricted movements
- The proposed upgrades are expected to result in a reduction in the 130 – Vehicle in same lane rear end crash types
- Construction activities for the project will be managed using the Department of State Growth's Standard Specifications to ensure that delays and disruptions are minimised.

6.11 Lighting

The proposed roadworks will also incorporate relocated and upgraded street lights at various roadside shown in the proposed plans at Appendix A. The street lights will be designed to ensure that light is dispersed along the road and will not result in overspill into adjoining areas.

6.12 Utilities

Dial Before You Dig (DBYD) information indicates that a number of utilities exist within the footprint of the development area. Certain utilities will be relocated or modified as part of the proposed works. Indicative details are shown in the proposed plans at Appendix A.

6.13 Construction Management

The Department of State Growth requires all contractors to submit a Construction Quality Plan and for projects with environmental sensitivity, an Environmental Management Plan (EMP) is required, demonstrating compliance with best practice guidelines and relevant legislation and regulation. An EMP will be required for this project. The EMP must be compliant with the State Growth's Road Construction Specifications. EMPs are reviewed and approved by State Growth prior to commencement of works to ensure the contractor has effectively identified, ascribed and accounted for construction related environmental risks, and has necessary systems and processes in place to effectively mitigate risk and respond to and report environmental incidents and emergency scenarios. Additionally, all construction contractors working for State Growth must be prequalified under a national prequalification system and have ISO 14001 certification. Erosion and sediment control is managed through the EMP. Site rehabilitation is managed as part of detailed design.

In order to prevent the spread of declared weeds within and from the municipality, construction machinery will be cleaned prior to first entry to the site as well as when leaving. Any weed material or contaminated soil will be removed from the site and disposed of appropriately to prevent the spread of weeds and diseases. Construction machinery will be cleaned as described in *DPIPWE 2004 Washdown Guidelines for Weed and Disease Control Edition 1*.

7. Title details

Land parcels within titles listed in TABLE 1 will be impacted by the proposed works to construct the new P-turns. A copy of all titles is provided in Appendix F of this report.

TABLE 1 LIST OF TITLES IMPACTED BY THE PROPOSED WORKS

Address	Title Ref	PID	Authority	Landowner
Evandale Road, Western Junction	143903/1	None	Subdivision Road	The Crown
Evandale Road, Western Junction	143771/3	None	LGA Subdivision Road	The Crown
Evandale Road, Western Junction	None	None	Road Type Unknown	The Crown
Evandale Road, Western Junction	148609/1	None	Acquired Road	The Crown
Evandale Road, Western Junction	148609/2	None	Acquired Road	The Crown
Evandale Road, Western Junction	148609/3	None	Acquired Road	The Crown
Evandale Road, Western Junction	150770/100	None	LGA Subdivision Road	Private
Evandale Road, Western Junction	23720/3	None	Acquired Road	The Crown
311 Evandale Road, Western Junction	128763/1	7607593	Commonwealth of Australia	Commonwealth of Australia
11 Boral Road, Western Junction	21958/1	7607526	N/A	Private
12 Boral Road, Western Junction	148609/6	7607534	N/A	Private
12 Boral Road, Western Junction	148609/5	7607534	N/A	Private
16 Johns Street, Western Junction	148609/4	7514768	N/A	Private
4 Richard Street, Western Junction	21957/5	1860993	N/A	Private
2 Richard Street, Western Junction	21957/6	7193116	N/A	Private
Richard Street, Western Junction	21957/7	None	LGA Subdivision Road	Council
Richard Street, Western Junction	136826/7	None	LGA Subdivision Road	Private
Boral Road	21958/7	None	LGA Subdivision Road	Private
1 Translink Avenue, Western Junction	150770/4	2774157	N/A	Private
2 Translink Avenue, Western Junction	150770/3	3314654	N/A	Private
81 Evandale Road, Western Junction	129905/1	2551287	N/A	Private
59 Raeburn Road, Breadalbane	159125/2	3077898	N/A	Private
57 Raeburn Road, Breadalbane	159125/1	3021333	N/A	Private
30 Raeburn Road, Breadalbane	50634/4	1534303	N/A	Private

8. Planning Permit Application

8.1 Planning Scheme

The proposed development is located within the Northern Midlands local government area where the Northern Midlands Interim Planning Scheme 2013 applies.

8.2 Zones

The proposed road works will occur primarily in the Utilities Zone (road reserve), as shown in Figure 9 below. However, some road widening will occur adjacent the existing road reserve in the Rural Resources Zone and the General Industrial Zone

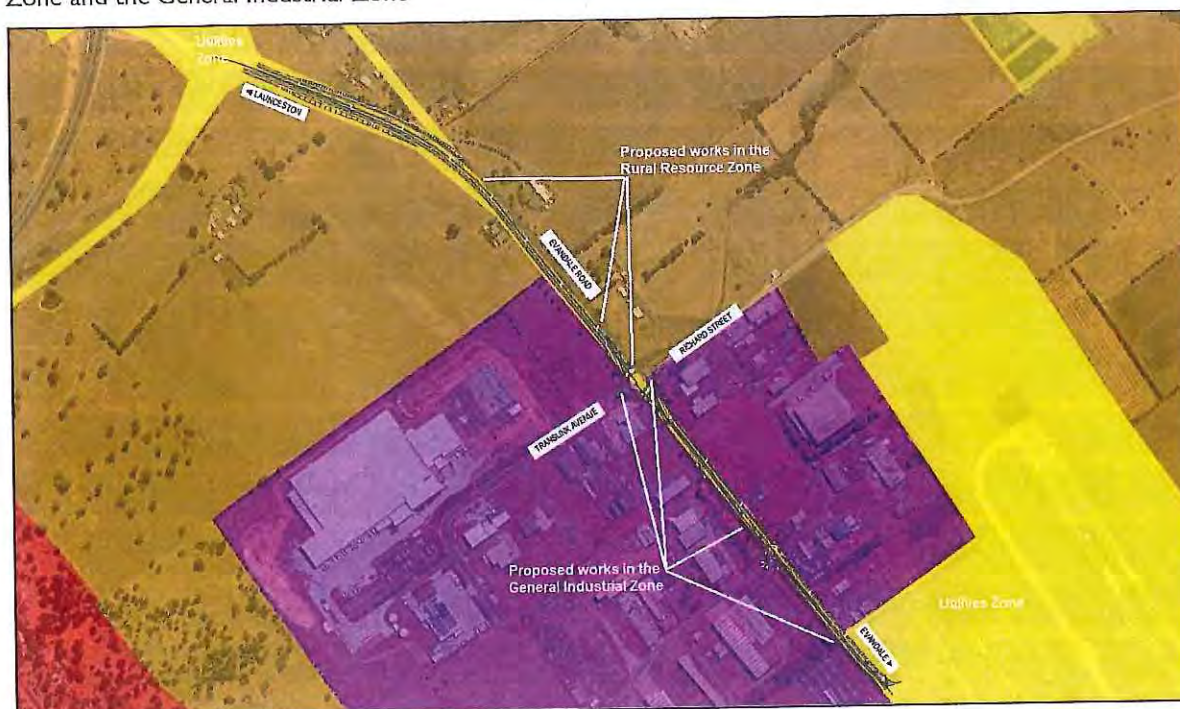


FIGURE 9 ZONING MAP

8.3 Land Use

The proposed road works are part of a transport network, which falls under the land use definition for Utilities, which means use of land for utilities and infrastructure including:

- (a) telecommunications;
- (b) electricity generation;
- (c) transmitting or distributing gas, oil, or power;
- (d) transport networks;**
- (e) collecting, treating, transmitting, storing or distributing water; or
- (f) collecting, treating, or disposing of storm or floodwater, sewage, or sullage.

Examples include an electrical sub-station or powerline, gas, water or sewerage main, optic fibre main or distribution hub, pumping station, railway line, retarding basin, road, sewage treatment plant, storm or flood water drain, water storage dam and weir.

Given that the scope of the proposed works is reasonably significant, the proposed land use is considered 'major utilities' in all zones and areas of the Translink Specific Area Plan, except within Area 2, where Council have agreed to consider the proposal as 'minor utilities' due to the minor scale of the proposed works.

8.4 Overlays

The proposed development area is variously located in the:

- Bushfire Prone Areas Overlay (discussed immediately below);
- Australian Noise Exposure Forecast (ANEF) Overlay (discussed in subsection 8.9.4); and
- Translink Specific Area Plan Overlay (discussed in subsection 8.9.5).

The northern portion of the proposed road works is in the Bushfire Prone Areas Overlay, which is shown hatched in Figure 10 below. This requires the proposal to be assessed against the relevant provisions of the Bushfire-Prone Areas Code. As the proposed land use (major utility) is not classified as a vulnerable or hazardous use under the Bushfire Code, this code is not applicable to the proposal.

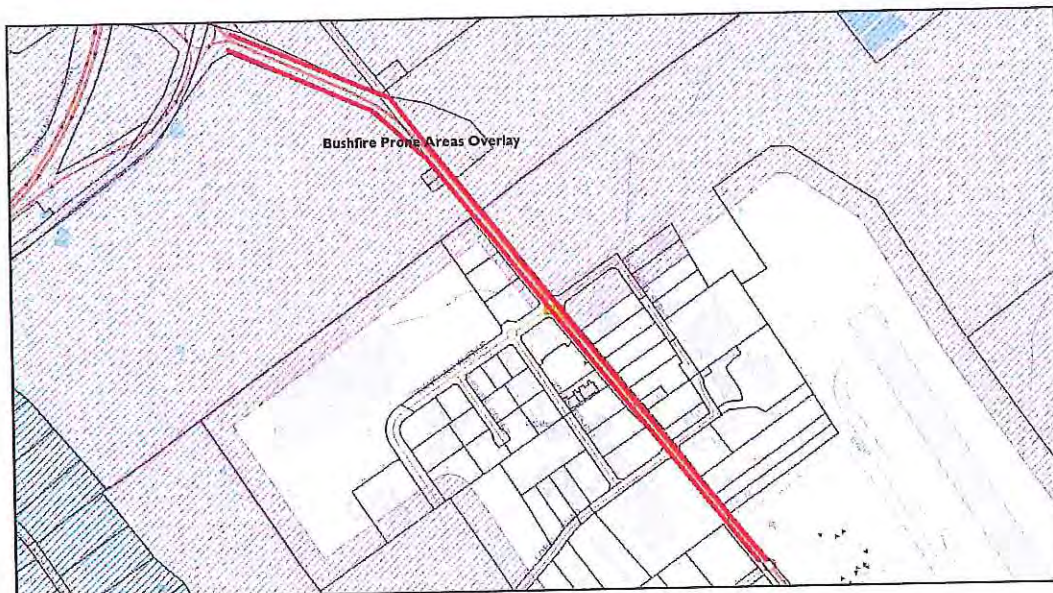


FIGURE 10 BUSHFIRE PRONE AREAS OVERLAY

8.5 Requirement for a Planning Permit

The proposal requires a planning permit is required for the following reasons:

- the 'major utilities' use is a:
 - Permitted use in the:
 - Utilities Zone;
 - Area 1 of Translink Specific Area Plan
 - Area 6 of Translink Specific Area Plan
 - Discretionary use in the:
 - Rural Resource Zone;
 - General Industrial Zone;
- the 'minor utilities' land use is a Permitted use in Area 2 of Translink Specific Area Plan
- the proposed roadworks and excavations are all considered development, and there are no applicable exemptions;
- the proposal relies on compliance with the performance criteria of various standards in the applicable zones and codes (detailed in the subsections below).

A Discretionary level of assessment applies to the planning permit application.

8.6 Utilities Zone

The proposed roadworks located within the Utilities Zone are located along Evandale Road, various intersections and a small portion of the airport's land, as shown yellow in Figure 11 below. The development will include all proposed works within the existing road reserve.

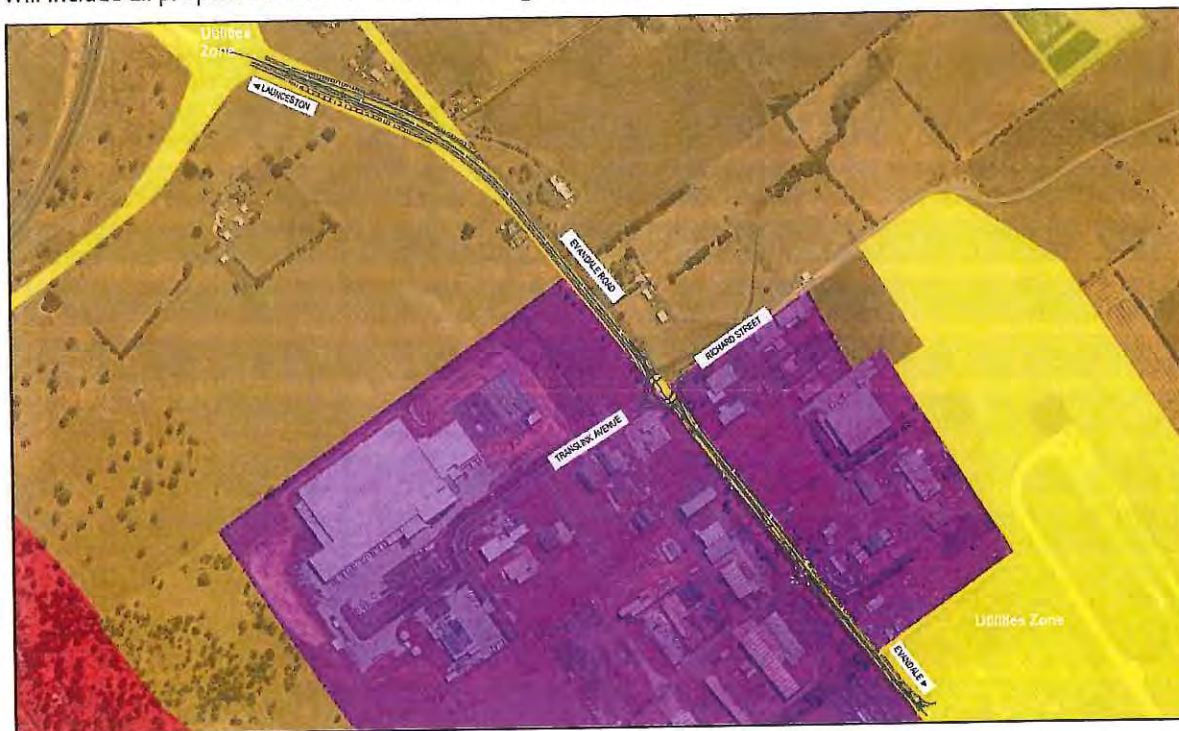


FIGURE 11 PROPOSED ROAD WORKS WITHIN THE UTILITIES ZONE

An assessment of the proposal against the zone's purpose and its use and development standards is provided below.

8.6.1 Purpose

This zone does not have local area objectives or desired future character statements.

Purpose Statement	Assessment
28.1.1.1 To provide land for major utilities installations and corridors.	The proposed roadworks will be within an existing utilities corridor. Given this, the proposal is consistent with statement 28.1.1.1.
28.1.1.2 To provide for other compatible uses where they do not adversely impact on the utility.	Only the Utility land use is proposed. Given this, the proposal is consistent with statement 28.1.1.2.

8.6.2 Use Standards

28.3.1 Capacity of existing utilities

Objective: To ensure that uses do not compromise the capacity of utility services.

Acceptable Solution	Performance Criteria
AI AI If for permitted or no permit required uses.	PI The proposal must not unreasonably compromise or reduce the operational efficiency of the utility having regard to: a) existing land use practices; and b) the location of the use in relation to the utility; c) any required buffers or setbacks; and d) the management of access.

Assessment

The proposal complies with AI, as it is for a Utilities use.

8.6.3 Development Standards

As there will be no buildings, retaining walls or subdivision, there are no applicable development standards.

8.7 General Industrial Zone

The proposed roadworks located within the General Industrial Zone are located along a reasonably narrow strip of land on the western side of Evandale Road and at areas near the roundabout at Translink Avenue / Richard Street, as shown in Figure 12 below.

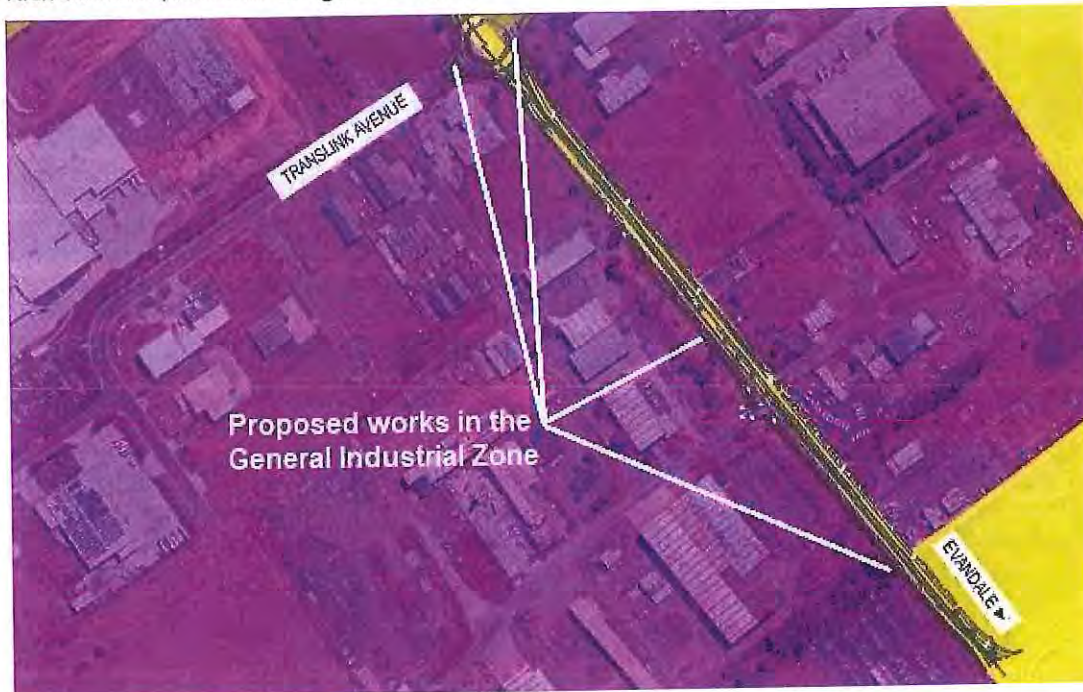


FIGURE 12 PROPOSED ROAD WORKS WITHIN THE GENERAL INDUSTRIAL ZONE

An assessment of the proposal against the zone’s purpose and standards is provided below.

8.7.1 Purpose

This zone does not have local area objectives or desired future character statements.

Purpose Statement	Assessment
25.1.1.1 To provide for manufacturing, processing, repair, storage and distribution of goods and materials where there may be impacts on neighbouring uses.	The proposed roadworks will better facilitate the provision of these uses in an established General Industrial Zone. Given this, the proposal is consistent with statement 25.1.1.1.
25.1.1.2 To focus industrial use and development into appropriate areas suitable for its needs	The proposed Utility land use is permissible within the zone. Given this, the proposal is consistent with statement 25.1.1.2.
25.1.1.3 To provide for 'non-industrial' uses that either support, supply or facilitate industrial development.	The proposed Utility land use is permissible within the zone. Given this, the proposal is consistent with statement 25.1.1.3.

8.7.2 Use Standards

As the proposed major utility use (i.e. the road use) is not listed in Tables E11.1 or E11.2 and will not result in the production of solid waste, there are no applicable use standards.

8.7.3 Development Standards

As there will be no buildings, retaining walls or subdivision, there are no applicable development standards.

8.8 Rural Resource Zone

The proposed roadworks located within the Rural Resource Zone are located along a reasonably narrow strip of land on the eastern side of Evandale Road shown in Figure 13 below.

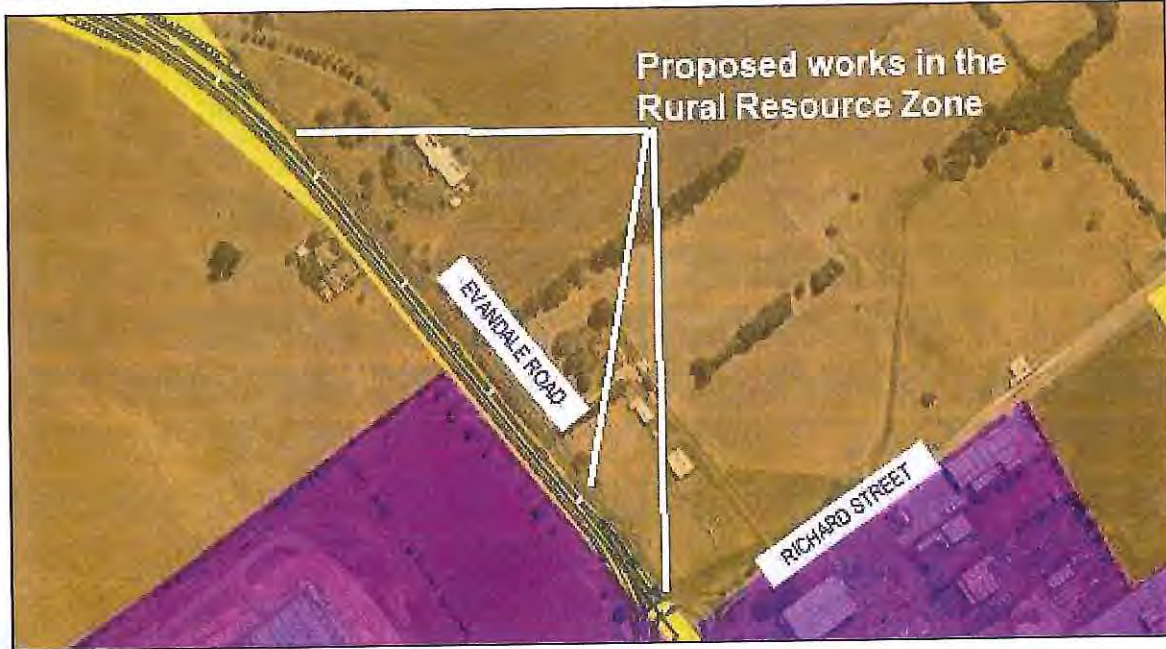


FIGURE 13 PROPOSED ROAD WORKS WITHIN THE RURAL RESOURCE ZONE

An assessment of the proposal against the zone’s purpose, local area objectives, desired future character statement and standards is provided below.

8.8.1 Purpose

Purpose Statement	Assessment
26.1.1.1 To provide for the sustainable use or development of resources for agriculture, aquaculture, forestry, mining and other primary industries, including opportunities for resource processing.	The proposed roadworks will better facilitate the provision of these uses in an established Rural Resource Zone. Given this, the proposal is consistent with statement 26.1.1.1.
26.1.1.2 To provide for other use or development that does not constrain or conflict with resource development uses.	The proposed Utility land use is permissible within the zone. The narrow extent of the works, adjacent the existing road, will not constrain or conflict with existing or future resource development. Given this, the proposal is consistent with statement 26.1.1.2.
26.1.1.3 To provide for economic development that is compatible with primary industry, environmental and landscape values.	The proposed roadworks will better facilitate the provision of compatible economic development in an established Rural Resource Zone. Given this, the proposal is consistent with statement 26.1.1.3.
26.1.1.4 To provide for tourism-related use and development where the	The proposed roadworks will better facilitate the provision of compatible tourism-related uses in an established Rural Resource Zone. One objective of the works is to provide a

sustainable development of rural resources will not be compromised.	better impression of Launceston for arriving visitors which is consistent with this purpose statement. Given this, the proposal is consistent with statement 26.1.1.4.
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Local Area Objectives	Assessment
<p>a) Primary Industries:</p> <p>Resources for primary industries make a significant contribution to the rural economy and primary industry uses are to be protected for long-term sustainability.</p> <p>The prime and non-prime agricultural land resource provides for variable and diverse agricultural and primary industry production which will be protected through individual consideration of the local context.</p> <p>Processing and services can augment the productivity of primary industries in a locality and are supported where they are related to primary industry uses and the long-term sustainability of the resource is not unduly compromised.</p>	<p>The proposed roadworks will improve Evandale Road's traffic capacity, which will help achieve the zone's objectives for Primary Industries. They will facilitate the movement of large vehicles carrying bulky goods and machinery to rural areas of the state from manufacturers in the industrial estate (and vice versa).</p>
<p>b) Tourism</p> <p>Tourism is an important contributor to the rural economy and can make a significant contribution to the value adding of primary industries through visitor facilities and the downstream processing of produce. The continued enhancement of tourism facilities with a relationship to primary production is supported where the long-term sustainability of the resource is not unduly compromised.</p> <p>The rural zone provides for important regional and local tourist routes and destinations such as through the promotion of environmental features and values, cultural heritage and landscape. The continued enhancement of tourism facilities that capitalise on these attributes is supported where the long-term sustainability of primary industry resources is not unduly compromised.</p>	<p>The proposed roadworks will improve Evandale Road's traffic capacity, which will help achieve the zone's objectives for Tourism.</p>
<p>c) Rural Communities</p> <p>Services to the rural locality through provision for home-based business can enhance the sustainability of rural communities. Professional and other business services that meet the needs of rural populations are supported where they accompany a residential or other established use and are located appropriately in relation to settlement activity centres and surrounding primary industries such that the integrity of the</p>	<p>The proposed roadworks will improve Evandale Road's traffic capacity, which will help achieve the zone's objectives for Rural Communities.</p>

activity centre is not undermined and primary industries are not unreasonably confined or restrained.	
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Desired Future Character Statement	Assessment
The visual impacts of use and development within the rural landscape are to be minimised such that the effect is not obtrusive.	As the proposed roadworks would maintain the level of the existing road and does not encroach excessively into the zone, the visual impacts of the proposal will be minimised such that the effect is not obtrusive. An objective of the works is to provide a better impression of Launceston for arriving visitors, which is consistent with this statement.

8.8.2 Use Standards

The following standards are not applicable:

- 26.3.1 Discretionary Uses if not a single dwelling:
 - P1.2 (only applies to commercial uses)
 - P2.1 and P2.2 (the land is Class 4 agricultural land i.e. non-prime agricultural)
- 26.3.3 Irrigation Districts (the road works will not be located in an identified irrigation district)

26.3.1 Discretionary Uses if not a single dwelling

Objective

- (a) To provide for an appropriate mix of uses that support the Local Area Objectives and the location of discretionary uses in the rural resources zone does not unnecessarily compromise the consolidation of commercial and industrial uses to identified nodes of settlement or purpose built precincts.
- (b) To protect the long term productive capacity of prime agricultural land by minimising conversion of the land to non-agricultural uses or uses not dependent on the soil as a growth medium, unless an overriding benefit to the region can be demonstrated.
- (c) To minimise the conversion of non-prime land to a non-primary industry use except where that land cannot be practically utilised for primary industry purposes.
- (d) Uses are located such that they do not unreasonably confine or restrain the operation of primary industry uses.
- (e) Uses are suitable within the context of the locality and do not create an unreasonable adverse impact on existing sensitive uses or local infrastructure.
- (f) The visual impacts of use are appropriately managed to integrate with the surrounding rural landscape.

Acceptable Solution	Performance Criteria
A1 A1 If for permitted or no permit required uses.	P1 P1.1 It must be demonstrated that the use is consistent with local area objectives for the provision of non-primary industry uses in the zone, if applicable

Assessment

The assessment in subsection 8.8.1 above demonstrates compliance with P1.1.

<p>A3 A1 If for permitted or no permit required uses.</p>	<p>P3 The conversion of non-prime agricultural to non-agricultural use must demonstrate that:</p> <ul style="list-style-type: none"> (a) the amount of land converted is minimised having regard to: <ul style="list-style-type: none"> i. existing use and development on the land; and ii. surrounding use and development; and iii. topographical constraints; or (b) the site is practically incapable of supporting an agricultural use or being included with other land for agricultural or other primary industry use, due to factors such as: <ul style="list-style-type: none"> i. limitations created by any existing use and/or development surrounding the site; and ii. topographical features; and iii. poor capability of the land for primary industry; or (c) the location of the use on the site is reasonably required for operational efficiency.
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Assessment

Given this, the proposal complies with P3 for the following reasons:

- (a) the proposed road widening of the existing Evandale Road will result in the conversion of a relatively small area of non-prime agricultural land to the utilities use;
- (b) the land to be developed is adjacent Evandale Road verge, which limits its capacity to be agriculturally productive;
- (c) the location of the road widening and associated utilities use is required for the operational efficiency of Evandale Road, which serves the local area.

<p>A4 A1 If for permitted or no permit required uses.</p>	<p>P4 It must demonstrated that:</p> <ul style="list-style-type: none"> (a) emissions are not likely to cause an environmental nuisance; and (b) primary industry uses will not be unreasonably confined or restrained from conducting normal operations; and (c) the capacity of the local road network can accommodate the traffic generated by the use.
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Assessment

As the proposal is Discretionary, A4 is not applicable. The proposal complies with P4 for the following reasons:

- (a) the proposed plans at Appendix A of this report demonstrate that the road upgrades have been designed to current road standards and will not result in excessive air pollution or vibrations. Further, the Stormwater Management Plan at Appendix C and Assessment at Appendix D demonstrate that stormwater and noise impacts will be acceptable;
- (b) due to the small area of land to be developed and its location, primary industry uses will not be unreasonably confined or restrained from conducting normal operations; and
- (c) the proposed Utilities use will not generate traffic. However, the proposed road upgrades will improve the Evandale Road's capacity to accommodate traffic.

<p>A5 A1 If for permitted or no permit required uses.</p>	<p>P5 It must be demonstrated that the visual appearance of the use is consistent with the local area having regard to:</p> <ul style="list-style-type: none"> (a) the impacts on skylines and ridgelines; and (b) visibility from public roads; and (c) the visual impacts of storage of materials or equipment; and (d) the visual impacts of vegetation clearance or retention; and
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	(e) the desired future character statements.
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Assessment

The proposed road works will be constructed at the existing level of Evandale Road, which passes through an area that has not been identified for scenic protection/management, and would not result in the removal of significant areas of native vegetation. Further, the assessment in subsection 8.8.1 demonstrates that the proposal is consistent with the zone's desired future character statements. Considering these matters, the proposal complies with P1.

8.8.3 Development Standards

The following development standards do not apply to the proposed road works:

- 26.4.1 Building Design and Siting (no buildings are proposed)
- 26.4.2 Subdivision (no subdivision is proposed)

8.9 Codes

Within the Planning Scheme, there are a number of codes which relate to the proposed works and use and the applicable overlays. Only those which may have some application to the proposal are considered. These are addressed below, and comments provided where applicable.

Code	Comment
E1.0 Bushfire-Prone Areas Code	Not applicable
E2.0 Potentially Contaminated Land Code	Not applicable
E3.0 Landslip Code	Not applicable
E4.0 Road and Railway Assets Code	Applicable - see below
E5.0 Flood Prone Areas Code	Not applicable
E6.0 Car Parking and Sustainable Transport Code	Not applicable
E7.0 Scenic Management Code	Not applicable
E8.0 Biodiversity Code	Not applicable
E9.0 Water Quality Code	Applicable – see below
E10.0 Recreation and Open Space Code	Not applicable
E11.0 Environmental Impacts and Attenuation Code	Not applicable
E12.0 Airports Impact Management Code	Applicable – see below
E13.0 Heritage Code	Not applicable
E14.0 Coastal Code	Not applicable
E15.0 Signs Code	Not applicable

8.9.1 Road and Railway Assets Code

An assessment of the proposal against the code’s applicable standards is provided below. This assessment relies on the Traffic Impact Assessment at Appendix E of this report. As the proposal meets the requirements of the applicable standards, it is consistent with the code’s purpose, which is to:

- (a) protect the safety and efficiency of the road and railway networks; and
- (b) reduce conflicts between sensitive uses and major roads and the rail network.

The following standards are not applicable:

- E4.6.1 Use and road or rail infrastructure A1/P1 and A2/PS; and
- E4.7.2 Management of Road Accesses and Junctions A1/P;
- E4.7.3 Management of Rail Level Crossings

To assist with an assessment of the proposal against this code, it should be noted that Evandale Road is mostly a Category 2 road with a small section being Category 4. The speed limit of 80km/h.

Use Standards

E4.6.1 Use and road or rail infrastructure

Objective: To ensure that the safety and efficiency of road and rail infrastructure is not reduced by the creation of new accesses and junctions or increased use of existing accesses and junctions.

Acceptable Solution	Performance Criteria
<p>A3</p> <p>For roads with a speed limit of more than 60km/h the use must not increase the annual average daily traffic (AADT) movements at the existing access or junction by more than 10%.</p>	<p>P3</p> <p>For limited access roads and roads with a speed limit of more than 60km/h:</p> <ul style="list-style-type: none"> a) access to a category 1 road or limited access road must only be via an existing access or junction or the use or development must provide a significant social and economic benefit to the State or region; and b) any increase in use of an existing access or junction or development of a new access or junction to a limited access road or a category 1, 2 or 3 road must be for a use that is dependent on the site for its unique resources, characteristics or locational attributes and an alternate site or access to a category 4 or 5 road is not practicable; and c) an access or junction which is increased in use or is a new access or junction must be designed and located to maintain an adequate level of safety and efficiency for all road users.

Assessment

As the proposal caters for road network growth, rather than generates traffic, it complies with A3.

E4.7.1 Development on and adjacent to Existing and Future Arterial Roads and Railways

Objective: To ensure that development on or adjacent to category 1 or 2 roads (outside 60km/h), railways and future roads and railways is managed to:

- a) ensure the safe and efficient operation of roads and railways; and
- b) allow for future road and rail widening, realignment and upgrading; and
- c) avoid undesirable interaction between roads and railways and other use or development.

Acceptable Solution	Performance Criteria
<p>AI</p> <p>The following must be at least 50m from a railway, a future road or railway, and a category 1 or 2 road in an area subject to a speed limit of more than 60km/h:</p> <ol style="list-style-type: none"> a) new road works, buildings, additions and extensions, earthworks and landscaping works; and b) building areas on new lots; and c) outdoor sitting, entertainment and children's play areas 	<p>PI</p> <p>Development including buildings, road works, earthworks, landscaping works and level crossings on or within 50m of a category 1 or 2 road, in an area subject to a speed limit of more than 60km/h, a railway or future road or railway must be sited, designed and landscaped to:</p> <ol style="list-style-type: none"> a) maintain or improve the safety and efficiency of the road or railway or future road or railway, including line of sight from trains; and b) mitigate significant transport-related environmental impacts, including noise, air pollution and vibrations in accordance with a report from a suitably qualified person; and c) ensure that additions or extensions of buildings will not reduce the existing setback to the road, railway or future road or railway; and d) ensure that temporary buildings and works are removed at the applicant's expense within three years or as otherwise agreed by the road or rail authority.

Assessment

As the proposed development is located within and adjacent to the Evandale Main Road corridor, it is unable to comply with Acceptable Solution AI. It does however satisfy Performance Criteria PI as follows:

- (a) The proposed development includes the upgrade of Evandale Main Road to four lanes between the entrance of the Launceston Airport to the Breadalbane Roundabout. The proposed upgrade will improve the traffic flow through the study length, improving travel time reliability. The upgrade will also cater for traffic growth along the road network in the future.
- (b) The Department of State Growth is the Tasmanian State Road Authority and the proposed development is a Department of State Growth project. This Traffic Impact Assessment has been prepared by a suitably qualified traffic engineer for the Department of State Growth and the Department has endorsed this report. The Noise Assessment at Appendix D of this report demonstrates that potential noise impacts are acceptable. Further, the proposed plans at Appendix A demonstrate that the road will be constructed to current road standards and will not result in excessive air pollution or vibrations.
- (c) N/A as the proposed development is not an addition or extension of a building
- (d) The Department of State Growth is the Tasmanian State Road Authority and the proposed development is a Department of State Growth project. It is expected that all temporary buildings and works will be removed in accordance with the requirements set out by the Department of State Growth.

E4.7.2 Management of Road Accesses and Junctions

Objective: To ensure that the safety and efficiency of roads is not reduced by the creation of new accesses and junctions.

Acceptable Solution	Performance Criteria
<p>A2</p> <p>For roads with a speed limit of more than 60km/h the development must not include a new access or junction.</p>	<p>P2</p> <p>For limited access roads and roads with a speed limit of more than 60km/h:</p> <p>a) access to a category 1 road or limited access road must only be via an existing access or junction or the development must provide a significant social and economic benefit to the State or region; and</p> <p>b) any increase in use of an existing access or junction or development of a new access or junction to a limited access road or a category 1, 2 or 3 Road must be dependent on the site</p>

Assessment

As the proposal will not create any new junctions or accesses, it complies with Acceptable Solution A1.

E4.7.4 Sight Distance at Accesses, Junctions and Level Crossings

To ensure that use and development involving or adjacent to accesses, junctions and level crossings allows sufficient sight distance between vehicles and between vehicles and trains to enable safe movement of traffic.

Acceptable Solution	Performance Criteria
<p>A1</p> <p>Sight distances at</p> <p>a) an access or junction must comply with the Safe Intersection Sight Distance shown in Table E4.7.4; and</p> <p>b) rail level crossings must comply with ASI 742.7 Manual of uniform traffic control devices - Railway crossings, Standards Association of Australia; or</p> <p>c) If the access is a temporary access, the written consent of the relevant authority has been obtained.</p>	<p>PI</p> <p>The design, layout and location of an access, junction or rail level crossing must provide adequate sight distances to ensure the safe movement of vehicles.</p>

Assessment

The proposed development will not create any new junctions or accesses. All existing accesses are noted to have sufficient sight distance in accordance with Table E4.7.4.

8.9.2 Flood Prone Areas Code

As the Stormwater Management Plan at Appendix C of this report indicates that the existing stormwater system does not have capacity to convey the 1% AEP storm event (with freeboard) for a fully developed catchment, this code applies to the proposal.

An assessment of the proposal against the code's applicable standards is provided below. This assessment relies on the Stormwater Management Plan. As the proposal meets the requirements of the applicable standards, it is consistent with the code's purpose, which is to:

- (a) ensure that use or development subject to risk from flooding is appropriately located and that adequate measures are taken to protect human life and property and to prevent adverse effects on the environment.
- (b) determine the potential impacts of flooding through the assessment of risk in accordance with the Australian Standard.

Flood Risk Assessment

The Flood Risk Assessment in the Stormwater Management Plan is aimed at demonstrating the proposed stormwater system will mitigate the risk to life, property and the environment, when the road upgrades are completed.

The proposed design mitigates and reduces flood risk on the road and immediately adjacent to the road by providing new drainage infrastructure including culverts and open drains. The open drains are located outside the roadway clear-zone (a specified distance depending on scenario between the road and the drains) in accordance with Austroads Guidelines. This includes protection around culvert headwalls. Outside of the open drains the flood risk is rare likelihood and insignificant consequence for all events up to the 1% AEP event.

With regard to the risk to human life, the larger open drains will contain hazardous flows in intense storm events. In accordance with the risk assessment in E5.7 of the code, the Likelihood – Annual Exceedance Probability is Moderate in the larger open drains. The consequence is moderate to major. This results in a high risk category under the risk matrix provided in the Planning Scheme. While the risk to human life may be high, it should be noted that the road is an existing land use. Adjacent to this road and in the surrounding area there are similarly-designed open drains, which have operated for a number of years without significant risk to human life. The drains themselves do not have steep side slopes and will be vegetated allowing a person who entered the drain to exit up the side of the drain.

For the frog ponds (wetlands), the Likelihood – Annual Exceedance Probability is Moderate, with the consequence of someone entering the ponds being moderate to major. This results in a high risk to human life. However, the permanent fencing for these ponds will mitigate the risk to low.

There will be no risk to the environment or property up to the 1% AEP as the drainage infrastructure is designed to accept, convey and provide environmental controls for this event.

Given the above matters, the proposed drainage system will not compromise risk to human life, and property and environmental risks will be responsibly managed.

Use Standards

As the proposal does not include habitable rooms, A1/PI of standard E5.5.1 Use and flooding are not applicable.

E5.5.1 Use and flooding

Objective: To ensure that use does not compromise risk to human life, and that property and environmental risks are responsibly managed.

Acceptable Solution	Performance Criteria
A2 Use must not be located in an area subject to a medium or high risk in accordance with the risk assessment in E5.7.	P2 Use must demonstrate that the risk to life, property and the environment will be mitigated to a low risk level in accordance with the risk assessment in E5.7.

Assessment

The above Flood Risk Assessment demonstrates that the risk to human life at the larger open drains may be high. However, it should be noted that the road is an existing land use. Adjacent to this road and in the surrounding area there are similarly-designed open drains, which have operated for a number of years without significant risk to human life. The risk to human life around the two frog ponds is mitigated to low by the permanent fencing. The Flood Risk Assessment also demonstrates that, due to the design of the drainage system, there will be no risk to the environment or property up to the 1% AEP as the drainage infrastructure is designed to accept, convey and provide environmental controls for this event. Given these matters, the proposed drainage system will not compromise risk to human life, and property and environmental risks will be responsibly managed, thereby complying with the objective of use standard E5.5.1.

Development Standards

E5.6.1 Flooding and Coastal Inundation

Objective: To protect human life, property and the environment by avoiding areas subject to flooding where practicable or mitigating the adverse impacts of inundation such that risk is reduced to a low level.

Acceptable Solution	Performance Criteria
A1 No acceptable solution.	<p>PI.1 It must be demonstrated that development:</p> <ul style="list-style-type: none"> (a) where direct access to the water is not necessary to the function of the use, is located where it is subject to a low risk, in accordance with the risk assessment in E5.7 a); or (b) where direct access to the water is necessary to the function of the use, that the risk to life, property and the environment is mitigated to a medium risk level in accordance with the risk assessment in E5.7. <p>PI.2 Development subject to medium risk in accordance with the risk assessment in E5.7 must demonstrate that the risk to life, property and the environment is mitigated through structural methods or site works to a low risk level in accordance with the risk assessment in E5.7.</p> <p>PI.3 Where mitigation of flood impacts is proposed or required, the application must demonstrate that:</p> <ul style="list-style-type: none"> (a) the works will not unduly interfere with natural coastal or water course processes through restriction or changes to flow; and

- (b) the works will not result in an increase in the extent of flooding on other land or increase the risk to other structures;
- (c) inundation will not result in pollution of the watercourse or coast through appropriate location of effluent disposal or the storage of materials; and
- (d) where mitigation works are proposed to be carried out outside the boundaries of the site, such works are part of an approved hazard reduction plan covering the area in which the works are proposed.

Assessment

The proposal complies with PI (a) because access to the water is not necessary to the function of the use (the road) and the above Flood Risk Assessment demonstrates that the risk around the two frog ponds has been mitigated to low by permanent fencing and that there is no risk to property or the environment. The Flood Risk Assessment also demonstrates that the risk to human life may be high around the larger open drains. However, as this risk no higher than the existing stormwater system, and existing drainage regimes are generally being maintained, the proposal is considered to comply with the objective of standard E5.6.1.

PI (b) is not applicable because direct access to the water is not necessary to the function of the road use.

PI.2 is not applicable because the proposal will not result in development subject to medium risk.

The proposed drainage system will mitigate flood impacts, and will comply with PI.3 for the following reasons:

- (a) Drainage upgrades will ensure that existing flow regimes are generally maintained, and that the works will not unduly interfere with natural water course processes through restriction or changes to flow.
- (b) Flood extents will be reduced by improving drainage, which will ensure the works will not result in an increase in the extent of flooding on other land or increase the risk to other structures.
- (c) The proposal does not require the management of effluent disposal or storage of materials.
- (d) No mitigation works will be carried out outside the boundaries of the site.

8.9.3 Car Parking and Sustainable Transport Code

This code applies to all use and development and there are no exemptions. However, the Utilities use has no set parking requirements for cars, bicycles, taxis or motorbikes in Table E6.1: Parking Space Requirements. Further, the proposal is for road improvements and there is no need to provide parking spaces or access strips along the route. Under these circumstances, the requirements of this code are not relevant to the proposal.

8.9.4 Water Quality Code

As the proposed road works is within 50m several watercourses, shown in Figure 14 below, the proposal must be assessed against this code. The proposed drainage system incorporates best practice Water Sensitive Urban Design, that will mitigate the harmful environmental impacts of stormwater discharge and provide attractive roadside habitats that will enhance biodiversity including:

- two permanently-fenced frog ponds (wetlands) on either side of the road, connected by an underground box culvert (to allow the passage of small fauna e.g. frogs);
- a bioretention swale drain, which will be connected by an underground box culvert to land on the other side of the road; and
- open roadside swale drains alongside the road.

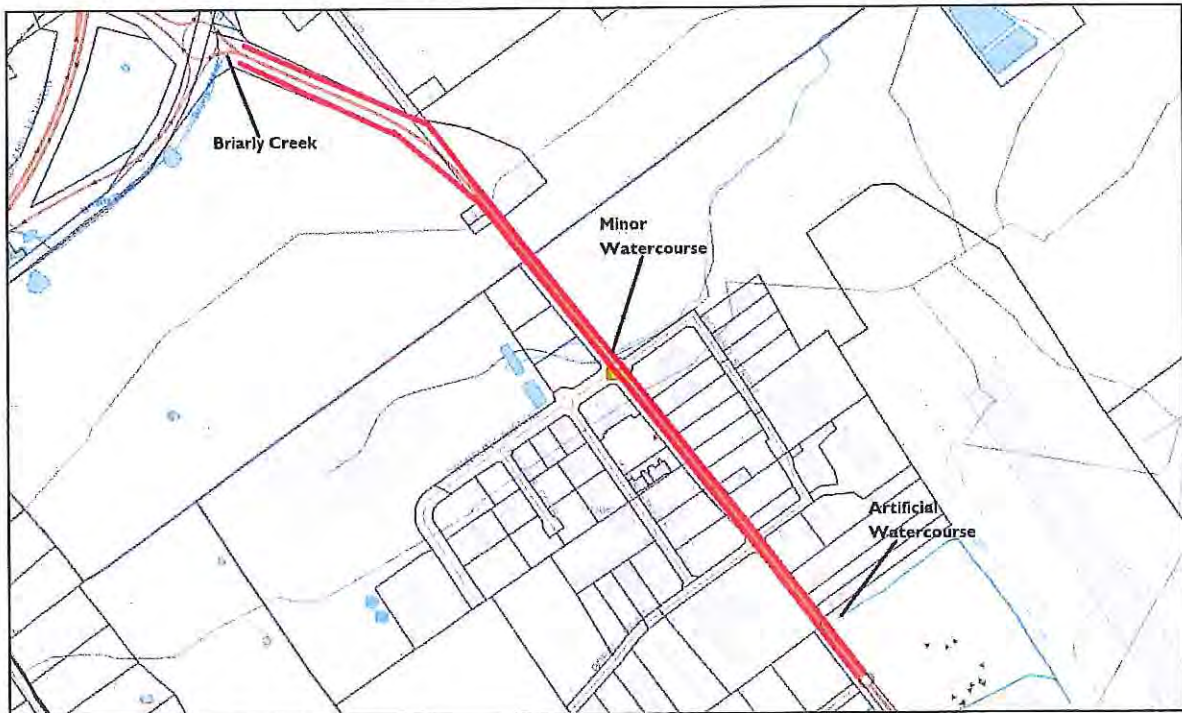


FIGURE 14 NEARBY WATERCOURSES

An assessment of the proposal against the code's applicable standards is provided below. As the proposal meets the requirements of the applicable standards, it is consistent with the code's purpose, which is to:

consider the impacts of development to limit adverse effects on the following:

- (a) wetland and watercourse ecosystems; and
 - i. flow regimes, water levels, biological activity and physical characteristics; and
 - ii. the variety of flora and fauna; and

- iii. the role of wetlands and watercourses for water supply, flood mitigation, environmental protection, water regulation and nutrient filtering, as resources for recreational activities and as attractive features in the landscape; and
- (b) improve the sustainable management of surface water through development.

Use Standards

There are no use standards under this code.

Development Standards

The following standards do not apply:

- E9.6.1 Development and Construction Practices and Riparian Vegetation A2/P2 (no wetlands will be impacted)
- E9.6.2 Water Quality Management A3/P3 (no quarries or borrow pits will be impacted)
- E9.6.5 Sediment and Erosion Control (only relates to subdivision)
- E9.6.6 Ben Lomond Water Catchment Areas (the proposal is outside this area)

E9.6.1 Development and Construction Practices and Riparian Vegetation

Objective: To protect the hydrological and biological roles of wetlands and watercourses from the effects of development.

Acceptable Solution	Performance Criteria
<p>A1</p> <p>Native vegetation is retained within:</p> <ul style="list-style-type: none"> a) 40m of a wetland, watercourse or mean high water mark; and b) a Ben Lomond Water catchment area - inner buffer. 	<p>P1</p> <p>Native vegetation removal must submit a soil and water management plan to demonstrate:</p> <ul style="list-style-type: none"> a) revegetation and weed control of areas of bare soil; and b) the management of runoff so that impacts from storm events up to at least the 1 in 5 year storm are not increased; and c) that disturbance to vegetation and the ecological values of riparian vegetation will not detrimentally affect hydrological features and functions.

Assessment

The proposal complies with P1 because the proposed plans for the road upgrades and this Stormwater Management Plan demonstrate that soil and water will be adequately managed by:

- (a) Revegetating and stabilising exposed areas
- (b) Addition of several new open drains will enable flow to be attenuated to the 1 in 5-year ARI storm event
- (c) Due to the location of the works, there will be no significant disturbance to the ecological values of riparian vegetation. Provision of new open swale drains with native vegetation. Box culverts will be used to enable small fauna such as frogs cross the road to access two frog ponds and a bioretention swale. The culverts will be installed in accordance with State Growth's Green and Golden Frog Guidelines.

A3	<p>P3</p> <p>A watercourse may be filled, piped, or channelled:</p>
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A watercourse must not be filled, piped or channelled except to provide a culvert for access purposes.

- a) within an urban environment for the extension of an existing reticulated stormwater network; or
- b) for the construction of a new road where retention of the watercourse is not feasible.

Assessment

The road widening will result in piping small lengths of watercourse realignments where necessary, as shown in the proposed plans for the road upgrades and this Stormwater Management Plan. This complies with the requirements of P3.

E9.6.2 Water Quality Management

Objective: To maintain water quality at a level which will not affect aquatic habitats, recreational assets, or sources of supply for domestic, industrial and agricultural uses.

Acceptable Solution	Performance Criteria
<p>A1</p> <p>All stormwater must be:</p> <ul style="list-style-type: none"> a) connected to a reticulated stormwater system; or b) where ground surface runoff is collected, diverted through a sediment and grease trap or artificial wetlands prior to being discharged into a natural wetland or watercourse; or c) meet emission limit guidelines from the Board of the Environment Protection Authority in accordance with the State Policy for Water Quality Management 1997. 	<p>P1</p> <p>Stormwater discharges to watercourses and wetlands must minimise loss of hydrological and biological values, having regard to:</p> <ul style="list-style-type: none"> a) natural flow regimes, water quality and biological diversity of any waterway or wetland; b) design and operation of any buildings, works or structures, on or near the wetland or waterway; c) sources and types of potential contamination of the wetland or waterway; d) devices or works to intercept and treat waterborne contaminants; e) opportunities to establish or retain native riparian vegetation or continuity of aquatic habitat.

Assessment

Stormwater discharges will be treated by via vegetated swales prior to discharge to existing watercourses. The pollutant reductions from treatment of total suspended solids, total phosphorus and total nitrogen are 82%, 68% and 31% respectively. Additional vegetated drains and box culverts are included in the design and will help establish and retain vegetation or any fauna in the existing watercourse vicinity. Given this, the proposal complies with the requirements of P1.

<p>A2.1</p> <p>No new point source discharge directly into a wetland or watercourse.</p> <p>A2.2</p> <p>For existing point source discharges into a wetland or watercourse there is to be no more than 10% increase over the discharge which existed at the effective date.</p>	<p>P2</p> <p>New and existing point source discharges to wetlands or watercourses must implement appropriate methods of treatment or management to ensure point sources of discharge:</p> <ul style="list-style-type: none"> a) do not give rise to pollution as defined under the <i>Environmental Management and Pollution Control Act 1994</i>; and <ul style="list-style-type: none"> i. are reduced to the maximum extent that is reasonable and practical having regard to: ii. best practice environmental management; and iii. accepted modern technology; and b) meet emission limit guidelines from the Board of Environmental Management and Pollution Control in accordance with the <i>State Policy for Water Quality Management 1997</i>.
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P2.2
Where it is proposed to discharge pollutants into a wetland or watercourse, the application must demonstrate that it is not practicable to recycle or reuse the material.

Assessment

As no new point discharge points are being created, the proposal complies with A2.1.
Peak discharge will not increase by more than 10% when considering the 1% AEP catchment peak flows. The new drains including large open drains attenuate flow. Given this, the proposal also complies with A2.2.

E9.6.3 Construction of Roads

Objective: To ensure that roads, private roads or private tracks do not result in erosion, siltation or affect water quality

Acceptable Solution	Performance Criteria
<p>AI A road or track does not cross, enter or drain to a watercourse or wetland</p>	<p>PI Road and private tracks constructed within 50m of a wetland or watercourse must comply with the requirements of the <i>Wetlands and Waterways Works Manual</i>, particularly the guidelines for siting and designing stream crossings.</p>

Assessment

The road and drainage design considers environmental impacts including the partial filling and shifting of watercourses. The construction contractor will be responsible for soil and water management during construction. During operational phase water quality control is achieved through the inclusion of vegetated swale drains as discussed. Evandale Road is an existing road and the upgrades cannot be separated from its current alignment. Taking all of these matters into consideration, the proposal is generally consistent with the requirements of the *Wetlands and Waterways Works Manual* and complies with PI.

E9.6.4 Access

Objective: To facilitate appropriate access at suitable locations whilst maintaining the ecological, scenic and hydrological values of watercourses and wetlands.

Acceptable Solution	Performance Criteria
<p>AI No acceptable solution.</p>	<p>PI New access points to wetlands and watercourses are provided in a way that minimises: a) their occurrence; and b) the disturbance to vegetation and hydrological features from use or development.</p>

Assessment

All culvert discharge points to waterways and drains will be provided with rock pitching for erosion control in accordance with Austroads culvert outlet protection requirements. This minimises the occurrence of new access points to watercourses and the disturbance to vegetation and hydrological features, thereby complying with PI.

A2

No acceptable solution.

P2

Accesses and pathways are constructed to prevent erosion, sedimentation and siltation as a result of runoff or degradation of path materials.

Assessment

As discussed, vegetated swales will help control sediment and siltation with rock pitching to be provided at outfalls to Austroads guides. Given this, the proposal complies with P2.

8.9.5 Airports Impact Management Code

Part of the proposed road works will be in the ANEF Overlay, as shown in the shaded area in Figure 15 below. This means the Airports Impact Management Code applies to this part of the proposal.

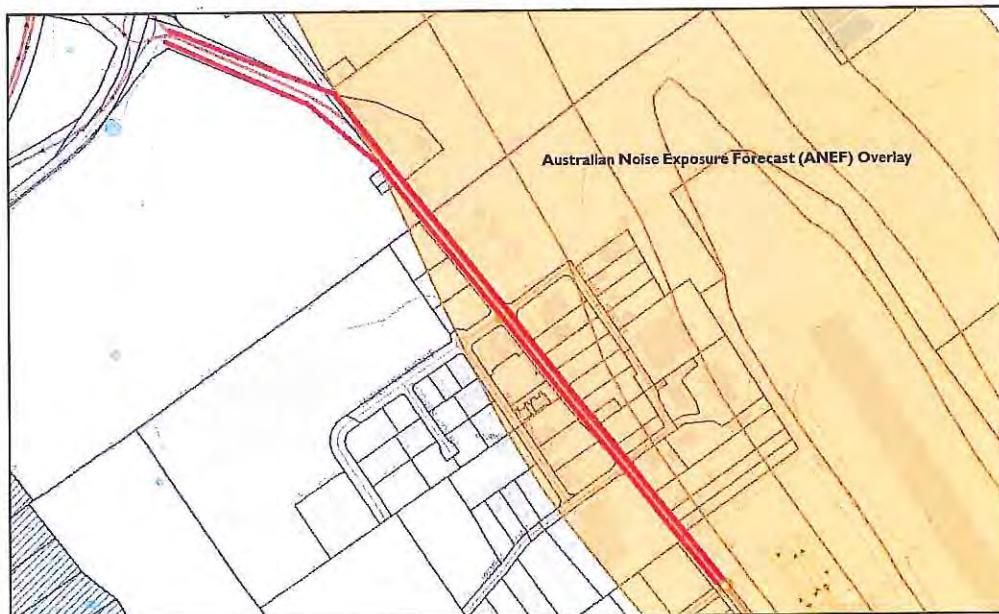


FIGURE 15 ANEF OVERLAY

An assessment of the proposal against the code’s applicable standards is provided below. As the proposal meets the requirements of the applicable standards, it is consistent with the code’s purpose, which is to:

- (a) ensure that use or development within identified areas surrounding airports does not unduly restrict the ongoing security, development and use of airport infrastructure; and
- (b) provide for management of the land use implications of those areas relevant to use and development under the scheme.

Standard 12.5.1 Noise Impacts does not apply because there are no proposed buildings and the proposed utility use is not a sensitive use.

E12.6.1 Obstacles to Aircraft

Objective: To ensure that development does not impact on the safety of prescribed airspace

Acceptable Solution	Performance Criteria
AI Development must be approved pursuant to the Airports Act 1996 and the Airport (Protection of Airspace) Regulations 1996 and the Manual of Standards.	PI No performance criteria.

Assessment

The planning permit application will be referred to Launceston Airport for comment. As the proposed road works will be at or around ground level, the proposal will comply with AI.

8.10 Translink Specific Area Plan

A portion of the proposed road works is within the Translink Specific Area Plan Overlay, as shown in the hatched area in Figure 16 below. This means the relevant provisions of the Translink Specific Area Plan apply to this part of the proposal.



FIGURE 16 TRANSLINK SPECIFIC AREA PLAN OVERLAY

An assessment of the proposal against the code’s purpose and applicable standards is provided below.

Purpose

An assessment of the proposal against the specific area plan’s purpose and its use and development standards is provided below. This zone does not have local area objectives or desired future character statements.

Purpose Statement	Assessment
a) Provide for industrial and commercial uses and developments which serve the strategic needs of the Launceston and Northern Midlands region and the State, and which would derive a particular benefit from a location having proximity to Launceston Airport, access to the State’s road and rail network or links to the port of Bell Bay.	The proposed road works would improve access, maintain road safety standards in the area, and would not conflict with statements a) to g).
b) Cater primarily for storage, transport and industrial uses.	
c) Provide for a limited range of retail or other activity, which supports storage, transport and industrial uses.	

d) Provide for a limited range of retail or other activity, which can demonstrate that the location offers a particular strategic advantage.	
e) Provide an area within which business-support facilities for the Translink Industrial Zone and Airport operations can locate.	
f) Provide opportunities for the development of accommodation adjacent to and serving the Airport.	
g) Provide detailed guidance on use and development within the General Industrial Zone at Translink, particular to the unique characteristics of the area.	

Standards for Use or Development

The following standards are not applicable:

- FI.4.1 Subdivision (no subdivision is proposed)
- FI.4.2 Height of Buildings (no buildings are proposed)
- FI.4.3 Materials and Presentation (no buildings are proposed)
- FI.4.4 Site coverage (no buildings are proposed)
- FI.4.6 Building Setbacks (no buildings are proposed)
- FI.4.7 Open Space and Landscaping (not relevant due to the nature of the works being road widening)
- FI.4.8 Outdoor Storage Areas (none proposed)
- FI.4.9 Fencing (none proposed)
- FI.4.10 Parking and Internal Circulation (no parking proposed)
- FI.4.12 Environmental Quality A2/P2 (the proposal is not adjacent the Devon Hills residential area)
- FI.4.13 Heritage (the location of the road works is not heritage protected)
- FI.4.14 Buffer Areas (the proposal is not adjacent the Devon Hills residential area)
- FI.4.15 Residential use and development (the proposed use is Utility)
- FI.4.16 Liquid and Solid Fuel Depot (the proposed use is Utility)
- FI.5.17 General retail and hire (the proposed use is Utility)

FI.4.5 Stormwater

Objective: To ensure that full utility services are available to new development.

Acceptable Solution	Performance Criteria
<p>AI</p> <p>The flow rate of stormwater outside the boundaries of the title shall be no greater than if the land was used for rural purposes. On-site detention devices shall be incorporated in the development.</p>	<p>PI</p> <p>Stormwater may only be discharged from the site in a manner that will not cause an environmental nuisance, and that prevents erosion, siltation or pollution of any waterways, coastal lagoons, coastal estuaries, wetlands or inshore marine areas, having regard to:</p>

- (a) the intensity of runoff that already occurs on the site before any development has occurred for a storm event of 1% Annual Exceedance Probability (pre-development levels); and
- (b) how the additional runoff and intensity of runoff that will be created by the subdivision for a storm event of 1% Annual Exceedance Probability, will be released at levels that are the same as those identified at the pre-development levels of the subdivision; and
- (c) whether any on-site storage devices, retention basins or other Water Sensitive Urban Design (WSUD) techniques are required within the subdivision and the appropriateness of their location; and
- (d) overland flow paths for overflows during extreme events both internally and externally for the subdivision, so as to not cause a nuisance.

Assessment

Peak stormwater discharge to the Launceston Airport Runway culvert has been maintained at existing 1% AEP levels by including new culverts and a new large open drain. The details of this arrangement are discussed previously. A marginal peak discharge increases at other locations (1 and 2) have been assumed to be of no consequence (location 1 and 2 discharges are outside of the Translink Specific Area). Given this, the proposal complies with PI (a) and b).

PI (c): Stormwater will be treated by means of long stretches of vegetated swale drains. As discussed previously, the current proposed measures will reduce suspended solid loads by 82%, total phosphorus by 68% and total nitrogen by 30%. Given this, the proposal complies with PI (c).

PI (d): Overland flow paths and discharge locations are clearly defined and confined to the road drainage infrastructure. The major drainage infrastructure is designed to meet the State Growth specification for a 1% AEP storm. As such, no nuisance will be caused. Given this, the proposal complies with PI (d).

F1.4.11 External Lighting

Objective: To ensure that external lighting does not impact on the operational safety of the Launceston Airport.

Acceptable Solution	Performance Criteria
A1 A1 External lighting must be hooded and directed so as not to cause nuisance, threat or hazard to the operation of Launceston Airport.	PI No performance criteria

Assessment

The proposed roadworks will also incorporate relocated and upgraded street lights at various roadside locations, as shown in the proposed plans at Appendix A. The street lights will be designed to ensure that light is dispersed along the road and will not result in overspill into adjoining areas. Given this, the proposal complies with A1.

F1.4.12 Environmental Quality

Objective:

- (a) To ensure that development does not result in environmental harm to the local area
- (b) To ensure that development does not impact on the operational safety of the Launceston Airport.

Acceptable Solution	Performance Criteria
A1 Emissions must not cause a hazard to the safe operation of Launceston Airport.	P1 No performance criteria

Assessment

The proposed plans at Appendix A of this report demonstrate that the road upgrades have been designed to current road standards and will not result in excessive air pollution or vibrations. Further, the Noise Assessment at Appendix D demonstrates that there will be no adverse impacts on Launceston Airport. Taking these matters into consideration, the proposal will not result in emissions that would cause a hazard to the safe operation of Launceston Airport, and complies with A1.

9. Other Relevant Planning Provisions

9.1 State Policy on Water Quality Management

The purpose of this state policy is to achieve the sustainable management of Tasmania's surface water and groundwater resources by protecting or enhancing their qualities while allowing for sustainable development in accordance with the objectives of Tasmania's Resource Management and Planning System.

As demonstrated in the above sections of this report, the proposed roadworks has been designed to avoid significant impacts on the qualities of surface water and groundwater resources. In this context, the proposal is consistent with the purpose of the policy.

9.2 State Policy on the Protection of Agricultural Land 2009

The purposed of this policy is to conserve and protect agricultural land so that it remains available for the sustainable development of agriculture, recognising the particular importance of prime agricultural land.

As demonstrated in the above sections of this report, the proposed road works will not occur on prime agricultural land, and the potential impacts on non-prime agricultural land are minimised and acceptable.

10. Conclusion

As the proposed road works comply or can be conditioned to comply with the relevant provisions of the planning scheme, the permit application should be approved.

Appendix A

Proposed plans



AMENDED

**EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS**

1-284

**CONTRACT NO. 3268
DESIGN**

pit&sherry

RETOURN REVIEW NAME: L. ALLEN SIGNED: [Signature] DATE: 29/09/2024	DESIGNED NAME: L. ALLEN SIGNED: [Signature] DATE: 29/09/2020	THESE DRAWINGS HAVE BEEN CHECKED, TAKEN TO SITE AND VERIFIED FOR SITE CONDITIONS AND CONSTRAINTS. THE DRAWINGS ARE RECOMMENDED FOR ACCEPTANCE. DESIGN MANAGER (DESIGN ORGANISATION): D. COE SIGNED: [Signature] DATE: 29/09/2020	I CERTIFY THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE BRIEF AND AS DETAILED IN THE FINAL DESIGN REPORT. PRINCIPAL (DESIGN ORGANISATION): R. CASIMIRY SIGNED: [Signature] DATE: 29/09/2020	THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DESIGN BRIEF AND PROJECT SCOPE. THE DRAWINGS ARE RECOMMENDED FOR ACCEPTANCE. PROJECT MANAGER SIGNED: [Signature] DATE:	Department of State Growth MANAGER SIGNED: [Signature] DATE:	CONTRACT NO. 3268 DRAWING HB19603-C100 PRINTED DATE 23-Sep-20 12:17 PM	ROAD LINK No. A1109.001 REGISTRATION NUMBER A1109.001 START: 07 / 5.17 FINISH: 07 / 5.80	No. of SHEETS 138 SHEET No. 1000 REVISION: 0
STRUCTURAL REVIEW NAME: R. CASIMIRY SIGNED: [Signature] DATE: 29/09/2024	DESIGN REVIEW NAME: M. AMPSTEAD SIGNED: [Signature] DATE: 29/09/2020							

AMENDED

E BIDGE (BRIDGE STRUCTURES)

(AB-)	ABUTMENT BOTTOM
(PAB)	ABUTMENT BOTTOM POINT
(AT-)	ABUTMENT TOP
(PAT)	ABUTMENT TOP POINT
(PBP)	CAP-PILE
(BR-)	DECK
(KX-)	EXPANSION JOINT
(XP-)	EXPANSION PLATE
(H-)	HEADSTOCK
(BC-)	PIER-COLUMN
(PBP)	PIER-COLUMN POINT
(UC-)	UNDERWEATH CLEARANCE
(MW-)	WING WALL

E BUIL (BUILDINGS & STRUCTURES) Continued

(OT-)	SWIMMING POOL
(TW-)	TOP OF WALL

E COMM (COMMUNICATIONS)

(TUP)	ABOVE GROUND JOINING POST
(TTS)	TTS CABLE
(GA-)	OPTICAL FIBRE - ABOVE GROUND
(GZ-)	OPTICAL FIBRE - DIGITISED (GIS)
(GU-)	OPTICAL FIBRE - UNDERGROUND
(GUM)	OPTICAL FIBRE CABLE MARKER
(GDF)	OPTICAL FIBRE FIBRE CONDUIT
(GDF)	OPTICAL FIBRE JUNCTION BOX
(GDF)	OPTICAL FIBRE PIT
(GDF)	STD MAIN PIT
(TY-)	TELEPHONE - HOUSE CONNECTION
(TX-)	TELEPHONE - BOX
(PXB)	TELEPHONE BOX POINT
(PXM)	TELEPHONE CABLE MARKER
(PXD)	TELEPHONE DISTRIBUTION PILLAR
(TD-)	TELEPHONE CONDUIT
(TL-)	TELEPHONE LINE
(TZ-)	TELEPHONE LINE - DIGITISED (GIS)
(TFL)	TELEPHONE POLE
(PFS)	TELEPHONE SINGLE CONCRETE PIT
(TSL)	TELEPHONE SLUMP
(PMP)	TELEPHONE TRANSMITTER - MOBILE
(PMS)	TELEPHONE TRIPLE CONCRETE PIT
(PTP)	TELEPHONE TWIN CONCRETE PIT

E CULT (CULTURAL) Continued

(FC-)	FENCE OTHER
(FPC)	FENCE POST-CULDE POINT
(FPL)	FREPLANE
(FPL)	FLAG POLE
(G-)	GATE
(HST)	HEADSTONE
(PIS)	HISTORICAL POINT OF INTEREST
(L-)	LARGE SIGN
(MAB)	MALBOX
(PMS)	PARKING METER
(PNT)	PICNIC TABLE
(PVP)	PUMP
(PBN)	RUBBISH BIN
(SFP)	SAFETY FENCE - PEDESTRIAN
(SE-)	SEAT
(PSN)	SIGN POST
(PDS)	SIGN POST - DOUBLE SIDED
(SK-)	SIGN WITH OUTREACH
(WM-)	WINDMILL
(PMM)	WINDMILL - POINT
(PMS)	MARKER - ENVIRONMENTAL/OTHER

E DRAIN (STORMWATER) Continued

(DT-)	DRAIN-TABLE DRAIN
(DX-)	DRAINAGE BOX
(DZ-)	DRAINAGE - DIGITISED (GIS)
(PDM)	DRAINAGE JUNCTION MANHOLE
(DP-)	DRAINAGE PIT
(PDM)	END OF WINDMILL
(PDM)	FLOOD HEIGHT
(PDM)	GULLY PIT
(PDM)	GULLY PIT POINT
(H-)	HEADWALL BOTTOM
(PDM)	HEADWALL BOTTOM POINT
(PDM)	HEADWALL TOP
(PDM)	HEADWALL TOP POINT
(PDM)	INLET TO SLUMP
(PDM)	INVERT - 225 DIA
(PDM)	INVERT - 300 DIA
(PDM)	INVERT - 375 DIA
(PDM)	INVERT - 450 DIA
(PDM)	INVERT - 525 DIA
(PDM)	INVERT - 600 DIA
(PDM)	INVERT - 750 DIA
(PDM)	INVERT - 900 DIA
(PDM)	INVERT - 1200 DIA
(PDM)	INVERT - 1500 DIA
(PDM)	INVERT - 1800 DIA
(PDM)	INVERT OF PIPE
(PDM)	INVERT OF SUBSOIL DRAIN OUTLET
(K-)	KERB INLET
(PDM)	ORVERT OF PIPE
(PDM)	PIPE - 225 DIA
(PDM)	PIPE - 300 DIA
(PDM)	PIPE - 375 DIA
(PDM)	PIPE - 450 DIA
(PDM)	PIPE - 525 DIA
(PDM)	PIPE - 600 DIA
(PDM)	PIPE - 750 DIA
(PDM)	PIPE - 900 DIA
(PDM)	PIPE - 1050 DIA
(PDM)	PIPE - 1200 DIA
(PDM)	PIPE - 1350 DIA

E BUIL (BUILDINGS & STRUCTURES)

(AW-)	AWNING
(PAM)	AWNING - POINT
(BW-)	BOTTOM OF WALL
(BY-)	BUILDING EAVES
(BU-)	BUILDING WALLS
(OC-)	CEMENTERY
(VE-)	CONCRETE SLAB AT GROUND LEVEL
(PBU)	CORNER OF BUILDING AT NS
(DO-)	DOORWAY
(PFL)	FLOOR LEVEL
(GB-)	GENERAL BUILT-UP AREA
(LB-)	LOADING BAY-DOCK
(GM-)	MISCELLANEOUS STRUCTURE
(RM-)	RETAINING WALL
(OR-)	RUIN
(OS-)	SILO OR TANKS
(OO-)	SPORTING ARENA
(SD-)	STAIRS - OUTSIDE

E BUIL (BUILDINGS & STRUCTURES) Continued

(BM-)	DIGITAL CADASTRE (ACCURACY 1.0m)
(DE-)	DIGITISING EXTENT (PHOTO)
(BO-)	DP OVERLAY (ACCURACY 0.1m)
(BO-)	(CALCULATED FROM DEPOSITED PLAN)
(BE-)	EASIMENT
(NF-)	FIELD COMPLETION BOUNDARY (PHOTO) (NF)
(FS-)	FIELD SURVEY EXTENT (PHOTO)
(BL-)	LOCAL GOVERNMENT
(BP-)	PARISH
(BT-)	TITLE (ACCURACY 0.02m)

E DRAIN (STORMWATER)

(DP-)	BATTER DRAIN / GI FLUME
(B-)	BOX CULVERT - 150 HIGH
(B-)	BOX CULVERT - 225 HIGH
(B-)	BOX CULVERT - 300 HIGH
(B-)	BOX CULVERT - 375 HIGH
(B-)	BOX CULVERT - 450 HIGH
(B-)	BOX CULVERT - 525 HIGH
(B-)	BOX CULVERT - 600 HIGH
(B-)	BOX CULVERT - 750 HIGH
(B-)	BOX CULVERT - 900 HIGH
(B-)	BOX CULVERT - 1050 HIGH
(B-)	BOX CULVERT - 1200 HIGH
(B-)	BOX CULVERT - 1350 HIGH
(B-)	BOX CULVERT - 1500 HIGH
(B-)	BOX CULVERT - 1800 HIGH
(B-)	BOX CULVERT - 2100 HIGH
(B-)	BOX CULVERT - 2400 HIGH
(B-)	BOX CULVERT - 2700 HIGH
(B-)	BOX CULVERT - 3000 HIGH
(B-)	BOX CULVERT - 3300 HIGH
(B-)	BOX CULVERT - 3600 HIGH
(B-)	BOX CULVERT - UNSPECIFIED HEIGHT
(B-)	DISH DRAIN

(U1-)	PIPE - 225 DIA
(U2-)	PIPE - 300 DIA
(U3-)	PIPE - 375 DIA
(U4-)	PIPE - 450 DIA
(U5-)	PIPE - 525 DIA
(U6-)	PIPE - 600 DIA
(U7-)	PIPE - 750 DIA
(U8-)	PIPE - 900 DIA
(U9-)	PIPE - 1050 DIA
(U2-)	PIPE - 1200 DIA
(U3-)	PIPE - 1350 DIA

E BUIL (BUILDINGS & STRUCTURES)

(PAM)	AWNING - POINT
(BW-)	BOTTOM OF WALL
(BY-)	BUILDING EAVES
(BU-)	BUILDING WALLS
(OC-)	CEMENTERY
(VE-)	CONCRETE SLAB AT GROUND LEVEL
(PBU)	CORNER OF BUILDING AT NS
(DO-)	DOORWAY
(PFL)	FLOOR LEVEL
(GB-)	GENERAL BUILT-UP AREA
(LB-)	LOADING BAY-DOCK
(GM-)	MISCELLANEOUS STRUCTURE
(RM-)	RETAINING WALL
(OR-)	RUIN
(OS-)	SILO OR TANKS
(OO-)	SPORTING ARENA
(SD-)	STAIRS - OUTSIDE

E CULT (CULTURAL)

(B-)	BIN - LARGE
(AC-)	BOLLARD
(BH-)	BUS SHELTER
(PBUS)	BUS STOP
(FE-)	FENCE
(FL-)	FENCE LINE
(FM-)	FENCE MANROOF

E DRAIN (STORMWATER)

(DP-)	BATTER DRAIN / GI FLUME
(B-)	BOX CULVERT - 150 HIGH
(B-)	BOX CULVERT - 225 HIGH
(B-)	BOX CULVERT - 300 HIGH
(B-)	BOX CULVERT - 375 HIGH
(B-)	BOX CULVERT - 450 HIGH
(B-)	BOX CULVERT - 525 HIGH
(B-)	BOX CULVERT - 600 HIGH
(B-)	BOX CULVERT - 750 HIGH
(B-)	BOX CULVERT - 900 HIGH
(B-)	BOX CULVERT - 1050 HIGH
(B-)	BOX CULVERT - 1200 HIGH
(B-)	BOX CULVERT - 1350 HIGH
(B-)	BOX CULVERT - 1500 HIGH
(B-)	BOX CULVERT - 1800 HIGH
(B-)	BOX CULVERT - 2100 HIGH
(B-)	BOX CULVERT - 2400 HIGH
(B-)	BOX CULVERT - 2700 HIGH
(B-)	BOX CULVERT - 3000 HIGH
(B-)	BOX CULVERT - 3300 HIGH
(B-)	BOX CULVERT - 3600 HIGH
(B-)	BOX CULVERT - UNSPECIFIED HEIGHT
(B-)	DISH DRAIN

(U1-)	PIPE - 225 DIA
(U2-)	PIPE - 300 DIA
(U3-)	PIPE - 375 DIA
(U4-)	PIPE - 450 DIA
(U5-)	PIPE - 525 DIA
(U6-)	PIPE - 600 DIA
(U7-)	PIPE - 750 DIA
(U8-)	PIPE - 900 DIA
(U9-)	PIPE - 1050 DIA
(U2-)	PIPE - 1200 DIA
(U3-)	PIPE - 1350 DIA

No.	Amendment Description	Initials	Date
0	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020

SCALES
N.T.S.

DESIGNED: L. ALLEN
REVIEWED: D. COE

Department of State Growth
EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS
PROJECT LEGEND - DRG 1

CONTRACT No.	3288	DRAWINGS	H819503-0105	PRINTED DATE	23-Sep-20, 12:17 PM	SHEET No.	1005
REGISTRATION NUMBER	A1109.001	REVISION	0				

E DRAIN (STORMWATER) Continued

1500	1500	(V5-) PIPE - 1500 DIA
1600	1600	(V6-) PIPE - 1600 DIA
1800	1800	(V7-) PIPE - 1800 DIA
200	200	(UJ-) PIPE - UNSPECIFIED DIAMETER
SP	SP	(SPF) SUBSOIL DRAIN FLUSH POINT/MARKER
SV	SV	(PABX) TOP OF CONCRETE JUNCTION BOX
WC	WC	(WC-) WATER COURSE
WL	WL	(PWL) WATER LEVEL POINT

E ELEC

5B	5B	(PEJB) CABLE JUNCTION BOX
BH	BH	(PEMH) CABLE MANHOLE
EC	EC	(PECM) CABLE MARKER
ED	ED	(ED-) CONDUIT
EP	EP	(PEFP) DISTRIBUTION FUSE POINT
EBL	EBL	(PELN) GARDEN LIGHT
EH	EH	(PHLT) HIGH TENSION Pylon
EL	EL	(EX-) HOUSE CONNECTION
EL	EL	(LH-) LIGHT WITH OUTREACH
EL	EL	(EZ-) LINE - DIGITISED
EL	EL	(LE-) LINE - MAJOR TRANSMISSION
EL	EL	(LL-) LINE - MINOR TRANSMISSION
EL	EL	(EL-) LINE - UNDERGROUND
EL	EL	(EN-) MAN SLUMP
EL	EL	(PLP) POLE - LIGHT
EL	EL	(PLP) POLE - POWER
EL	EL	(PLP) POLE - POWER AND LIGHT
EL	EL	(PPT) POLE - POWER AND TRANSFORMER
EL	EL	(PELP) POWER SERVICE PILLAR - UNDERGROUND
EL	EL	(EL-) PYLON LEG
EA	EA	(PSAP) STAY ANCHOR POLE
EA	EA	(PSR) STAY POLE
EA	EA	(PLS) SUSPENDED LIGHT
EA	EA	(EC-) TRANSFORMER CABINET
EA	EA	(PET) TRANSFORMER CABINET CENTRE

E FOTO (PHOTOGRAMMETRY)

HP	HP	(PHCP) HORIZONTAL CONTROL POINT
MP	MP	(PMCP) MINOR CONTROL POINT
CP	CP	(PCPN) PHOTO CENTRE
VP	VP	(PVCN) VERTICAL CONTROL POINT

E GAS

GA	GA	(HA-) ETHANE PIPELINE
GC	GC	(DB-) HOSE CONNECTION
GD	GD	(ZS-) MAIN - DIGITISED (9S)
GE	GE	(HG-) MAIN - HIGH PRESSURE PIPELINE
GF	GF	(LG) MAIN - LOW PRESSURE
GG	GG	(MS-) MAIN - NITRON
GH	GH	(TC-) MAIN - POLYETHYLENE
GI	GI	(PEH) MANHOLE COVER
GJ	GJ	(GMR) METER
GK	GK	(PSM) PIPELINE MARKER
GL	GL	(PGR) PIPELINE MARKER - HIGH PRESSURE
GM	GM	(PRB) REGULATOR BOX
GN	GN	(PST) TEST POINT
GO	GO	(PGA) VALVE BOX
GP	GP	(PGR) VENT PIPE

E HERI (HERITAGE)

HE	HE	(PHE) ENDANGERED COMMUNITY
HE	HE	(PEE) ENDANGERED ECOLOGICAL COMMUNITY
HE	HE	(PHZ) HAZARDOUS SITE
HE	HE	(PHA) INDIGENOUS HERITAGE AREA
HE	HE	(PHI) NON INDIGENOUS HERITAGE SITE

E LMKK

AL	AL	(AL-) ARROW - LEFT TURN
AR	AR	(AR-) ARROW - RIGHT TURN
AS	AS	(AS-) ARROW - STRAIGHT HEAD
AL	AL	(AL-) ARROW - STRAIGHT HEAD AND LEFT
AR	AR	(AR-) ARROW - STRAIGHT HEAD AND RIGHT
AS	AS	(SB-) BARRIER AND SEPARATION
AL	AL	(CL-) CHEVRON MARKING LEFT
AR	AR	(CR-) CHEVRON MARKING RIGHT
AS	AS	(CW-) CLEARWAY (3x2)
AL	AL	(CC-) CONTINUITY/EDGE INTERMITTENT (1x2)
AS	AS	(DB-) DOUBLE BARRIER

E LMKK Continued

LA	LA	(LL-) LANE SEPARATION (3x9)
LA	LA	(DC-) LANE (3x6)
LA	LA	(DA-) LANE SEPARATION LINE (3x3)
LA	LA	(CN) SEPARATION (3x1)
LA	LA	(CG) GIVEWAY/HOLDING LINE/JUNCTION CONTINUITY
LA	LA	(CK-) PEDESTRIAN CROSSING (SIGNALS)
LA	LA	(CZ-) PEDESTRIAN CROSSING ZEBRA
LA	LA	(CA-) PEDESTRIAN CROSSING APPROACH (2/3 ZAG)
LA	LA	(S1-) SPEED ZONE - 10km/h
LA	LA	(S2-) SPEED ZONE - 20km/h
LA	LA	(S3-) SPEED ZONE - 30km/h
LA	LA	(S4-) SPEED ZONE - 40km/h
LA	LA	(S5-) SPEED ZONE - 50km/h
LA	LA	(S6-) SPEED ZONE - 60km/h
LA	LA	(S7-) SPEED ZONE - 70km/h
LA	LA	(S8-) SPEED ZONE - 80km/h
LA	LA	(S9-) SPEED ZONE - 90km/h
LA	LA	(S1-) SPEED ZONE - 100km/h
LA	LA	(S2-) SPEED ZONE - 110km/h
LA	LA	(PTM) UNIDIRECTION

E MARK (SURVEY MARKS)

AP	AP	(PAP) ALIGNMENT PIN
BP	BP	(PBM) BENCH MARK
BL	BL	(PBL) BOLT
BP	BP	(PBP) BOUNDARY PEG
BS	BS	(PSS) BOUNDARY ARROW
BP	BP	(PDH) DRILL HOLE AND WING
BP	BP	(PDP) DUMPY PEG
GI	GI	(PGL) G I PILE
PI	PI	(PIS) MISCELLANEOUS SURVEY MARK
MA	MA	(PMA) NAIL
PM	PM	(PMP) PERMANENT MARK
PC	PC	(PMB) RM CONCRETE BLOCK
CM	CM	(PCM) CONTROL MARK
SK	SK	(PSK) SPIKE
ST	ST	(PST) STAR PICKET
SS	SS	(PSS) STATE SURVEY MARK
TS	TS	(PTS) TIG STATION/CONCRETE PILLAR
WB	WB	(PSW) WATER BOARD PNL

AMENDED E MISC

PH	PH	(PBH) BORE HOLE
FL	FL	(PCFL) CAMERA - FLASH UNIT
CS	CS	(CCS) CHECK STRING
GC	GC	(PGAT) GATE COVER LID
GC	GC	(CCG) GOLF COURSE
HO	HO	(PHO-) HIGH PRESSURE OIL PIPELINE
HO	HO	(PHOH) HIGH PRESSURE OIL PIPELINE MARK
HS	HS	(PHS) HOTSPOT
LI	LI	(LIL) JOIN LINE (BOUNDARY)
BR	BR	(PBR) BREAK STRINGS
OR	OR	(POR-) PARK OR OPEN SPACE
PH	PH	(PRET) PETROL PUMP
PH	PH	(PHNL) POT HOLE - NULL LEVEL
PH	PH	(PHRL) POT HOLE - WITH RL
PL	PL	(PCAM) RED LIGHT-SPEED-TRAFFIC CAMERA
SL	SL	(SL-) SEISMIC LINE
SS	SS	(PST) SEISMIC TEST SHOT
JS	JS	(JLS-) SERVICE JUNCTION BOX
SG	SG	(SG-) STOCK GRID
OH	OH	(OCH-) STOCKPILE
TP	TP	(PTEO) TEST PIT
UT	UT	(UT-) UNDERGROUND TANK
UT	UT	(PUT) UNDERGROUND TANK POINT
UP	UP	(PHOL) UNIDENTIFIED POLE
US	US	(PUS) UNIDENTIFIED SERVICE

E RAIL

CB	CB	(PRCB) RAILWAY CONTROL BOX
FE	FE	(RFE-) RAILWAY FORMATION EDGE
RA	RA	(RR-) RAILWAY RAMP
RS	RS	(RRS) RAILWAY SIGNAL
RS	RS	(RS-) RAILWAY SIGNAL TROUGH
RS	RS	(PRCS) RAILWAY SIGNAL THROUGH - POINT
RS	RS	(PSTR) RAILWAY STATIONION
RS	RS	(RTM) RAILWAY TRACK CENTRE
RS	RS	(RTM) RAILWAY TRACK KNOUBERT
RS	RS	(RA-) TOP OF RAIL
RS	RS	(RAL) TOP OF RAIL - POINT
RS	RS	(RP-) TOP OF RAILWAY PLATFORM

* DENOTES SYMBOL SCALED FOR CLARITY

No.	Amendment Description	D.C.	Date
0	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020
This sheet may be prepared using colour and may be incomplete if copied			

DESIGNED	L. ALLEN
REVIEWED	D. COE

Department of State Growth	EVANDAILE MAIN ROAD (A1109)	LAUNGESTON AIRPORT ROAD ACCESS (EVANDAILE ROAD)
PROJECT LEGEND - DRG 2	CONTRACT No.	3268
	DRAWING	H819505-C1006
	PRINTED DATE	23-Sep-20 12:18 PM
	REGISTRATION NUMBER	A1109.001
	SHEET No.	1006
	REVISION	0

AMENDED

E ROAD

—(BK-)	BACK OF KERB
—(RC-)	CENTRE OF ROAD
—(DW-)	DRIVEWAY
—(EL-)	EDGE OF FORMATION
—(EM-)	EDGE OF MEDIAN
—(EP-)	EDGE OF PAVEMENT
—(EK-)	EDGE OF TRACK
—(UR-)	EDGE OF UNSEALD ROAD
—(FP-)	FOOTPATH
—(FL-)	GUTTER FLOW LINE
—(LP-)	LIP LINE
—(OF-)	OFFSET GROWN-GROWN
—(RR-)	RRM RAMP
—(FG-)	SAFETY BARRIER GUARD FENCE
—(KL-)	SAFETY BARRIER TYPE F
—(FW-)	SAFETY BARRIER WIRE ROPE
—(TG-)	TOP OF KERB
—(TM-)	TOP OF MEDIAN
—(VT-)	VEHICULAR TRACK EDGE
x	POINT ON BITUMEN

E TICS (TRAFFIC)

—(SD-)	SIGNAL DETECTOR
—(PSA)	TRAFFIC CONTROL SIGNAL
—(TO-)	TRAFFIC LIGHT WITH OUTREACH
—(PSQ)	TRAFFIC SIGNAL CONTROLLER
—(PSDR)	TRAFFIC SIGNAL DETECTOR
—(PSX)	TRAFFIC SIGNAL JUNCTION BOX

E TEXT

TEXT 1.8	GREY (AUTOCAD COLOUR 8)
TEXT 2.5	WHITE (AUTOCAD COLOUR 7)
TEXT 3.5	YELLOW (AUTOCAD COLOUR 2)
TEXT 5.0	RED (AUTOCAD COLOUR 1)
TEXT 7.0	CYAN (AUTOCAD COLOUR 4)

E TOPO

—(BB-)	BOTTOM OF BANK/EMBANKMENT
—(NB-)	BREAKLINE OR RIDGE
—(V/C-)	CLIFF-ESCARPMENT
—(L/C-)	CULTIVATION PLANTAGE
—(EG-)	EDGE OF GARDEN
—(FO-)	FORD
—(GR-)	GRASSLAND
—(ML-)	LAKE
—(NL-)	LANDSLIDE ERODED BANK
—(NS-)	NATURAL SURFACE
+	NATURAL SURFACE POINT
—(LO-)	ORCHARD
—(RE-)	RESERVOIR
—(WR-)	RIVER OR CREEK EDGE
—(JR-)	ROCK AREA
—(SH-)	SPOT HEIGHT
—(M-)	SWAMP OUTLINE
—(MVA)	SWAMP-MARSH
—(LD-)	TIMBER OR SCRUB (DENSE)
—(JM-)	TIMBER OF SCRUB (MEDIUM)
—(LS-)	TIMBER OF SCRUB (SCATTERED)
—(TC-)	TOP OF BANK
—(CL-)	TOP OF CUTTING
—(TR-)	TREE FOLIAGE (TR)
—(PR1)	TREE FOLIAGE - 1m SPREAD
—(PR2)	TREE FOLIAGE - 2m SPREAD
—(PR3)	TREE FOLIAGE - 3m SPREAD
—(PR4)	TREE FOLIAGE - 4m SPREAD
—(PR5)	TREE FOLIAGE - 5m SPREAD

E TOPO Continued

(PR6)	TREE FOLIAGE - 6m SPREAD
(PR7)	TREE FOLIAGE - 7m SPREAD
(PR8)	TREE FOLIAGE - 8m SPREAD
(PR9)	TREE FOLIAGE - 9m SPREAD
(PR10)	TREE FOLIAGE - 10m SPREAD
(PR11)	TREE FOLIAGE - 11m SPREAD
(PR12)	TREE FOLIAGE - 12m SPREAD
(PR15)	TREE FOLIAGE - 15m SPREAD

E WATER

△ AV	AIR VALVE
△ RV	AIR VALVE - RECYCLED
△ ET	EARTH TERMINAL
△ ET	EARTH TERMINAL - RECYCLED
△ FH	FIRE HYDRANT
—(HV-)	HOUSE CONNECTION
—(PHY)	HYDRANT
—(PHY)	HYDRANT - RECYCLED
—(MM-)	MAIN
—(WZ-)	MAIN - DIGITISED (GIS)
—(RM-)	MAIN - RECYCLED
—(MVA)	MAIN MARKER
—(PRM)	MAIN MARKER - RECYCLED
—(MVA)	METER
—(MVA)	METER - RECYCLED
—(UC-)	OVERHEAD PIPELINE
—(PSV)	STOP VALVE
—(PSV)	STOP VALVE - RECYCLED
—(PVT)	TAP
—(PVT)	TAP - RECYCLED
—(PVC)	SCOUR VALVE
—(PVC)	SCOUR VALVE - RECYCLED
—(UP-)	UNIDENTIFIED PIPELINE

E OTHER (uncoded features)

—(WC)	WATER COURSE (GIS)
—(SW)	STORMWATER (GIS)
—(EC)	ELEC CONDUIT (GIS)
—(GT)	LINE - MAJOR TRANSMISSION (GIS)
—(TL)	LINE - MINOR TRANSMISSION (GIS)
—(LJ)	LINE - UNDERGROUND (GIS)
—(T)	TRAFFIC SIGNAL CABLE

E STNS

⊙	AP-DH-G-PIPE OR RALCS
△	BOLT-DUMP-YAML-SPIKE
△ S/M	DEFAULT SURVEY MARK
○	PEG
⊠	PM SSM OR CONTROL MARK
△	TRIG STATION

E TRIA

—(TK-)	TRIANGULATION - DTM
--------	---------------------

* DENOTES SYMBOL SCALED FOR QUANTITY

Amendment Description	D.C.	23/09/2020	Occurrence System	MGA BY ZONES S1	Height Datum	AHD
Issue For Construction	D.C.	Date	Occurrence System	MGA BY ZONES S1	Height Datum	AHD
No.	Amendment Description	D.C.	Date	Occurrence System	MGA BY ZONES S1	Height Datum
0	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020	Occurrence System	MGA BY ZONES S1	Height Datum
<p style="text-align: center;">Department of State Growth</p> <p style="text-align: center;">EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS</p> <p style="text-align: center;">PROJECT LEGEND - DRG 3</p>						
CONTRACT No.	DRAWINGS	PRINTED DATE				
3288	HB-19503-C1007	23-Sep-20, 12:18 PM				
REGISTRATION NUMBER			SHEET No.			
A1109.001			1007			
			REVISION 0			

D ANNO (ANNOTATION)

- NORTH POINT
- AMENDMENT
- SETOUT POINT

D BIDGE (BRIDGE STRUCTURES)

- APARTMENT BOTTOM
- BRIDGE DECK
- PIER/COLUMN

D BUIL (BUILDINGS & STRUCTURES)

- ROOF LINE
- WALL
- DOORWAY
- FLOOR LEVEL
- RETAINING WALL
- STAIRS - OUTSIDE

D BDV'S (BOUNDARIES)

- CADASTRAL
- EASEMENT
- LIMIT OF CONTRACT
- EXTENT OF PROJECT

D COMM (COMMUNICATIONS)

- TELEPHONE LINE - ABOVE GROUND
- TELEPHONE CONDUIT
- TELEPHONE LINE - REBOUNDANT
- OPTICAL FIBRE - ABOVE GROUND
- OPTICAL FIBRE - UNDERGROUND
- OPTICAL FIBRE FIBRE CONDUIT
- ITS CABLE
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- TELEPHONE CABLE MARKER
- TELEPHONE DISTRIBUTION PILLAR
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRANSMITTER - MOBILE
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

• DENOTES SYMBOL SCALED FOR CLARITY
 DYNB DENOTES DYNAMIC BLOCK DEFINED

D CULT (CULTURAL)

- FENCE - GENERAL (POST & WIRE)
- FENCE - CHAINWIRE
- FENCE - OTHER
- SAFETY FENCE - PEDESTRIAN
- FENCE - SOUND
- FENCE - REBOUNDANT/REMOVED
- BIN - LARGE
- BOLLARD
- BUS STOP
- FENCE POST/GUIDE POST
- DYNB GATE
- DYNB LARGE SIGN
- MAILBOX
- PARKING METER
- RUBBISH BIN
- SIGN POST
- SIGN POST - DOUBLE SIDED

D CHECK (CHECKING)

- DESIGN CLEAR ZONE (LINE SCALED FOR CLARITY)
- DESIGN SIGHT LINE (LINE SCALED FOR CLARITY)
- DESIGN CONTOUR - INDEX
- DESIGN CONTOUR - INTERMEDIATE
- TURNING PATH - ANALYSIS PATH

NOTE THAT SEPARATE LAYERS CAN BE ADDED FOR VEHICLE PATH ANALYSES AS REQUIRED (IE FOR DIFFERENT VEHICLE TYPES). PROPRIETARY PRODUCTS AUTOMATICALLY GENERATE LAYERS THAT ARE LINKED BACK TO THE ANALYSIS PATH. THE FOLLOWING ELEMENTS ARE FOR GUIDANCE PURPOSES ONLY, AND ARE BASED ON DIRRS STANDARD SETUP FOR AUTODRAN.

- GENERAL:
- VEHICLE NAME
 - VEHICLE OUTLINE
 - TYRES
 - TYRE TREAD
 - PATH ICONS
- ENVELOPES:
- FRONT TYRES
 - REAR TYRES
 - FRONT CLEARANCE
 - REAR CLEARANCE
 - VEHICLE BODY
 - BODY CLEARANCE
 - LOAD (NS)
 - LOAD CLEARANCE (NS)
- HATCHING:
- VEHICLE BODY
 - BODY CLEARANCE (NS)
 - DYNB (NS) DENOTES NOT SHOWN (NORMALLY)

D DRAIN (STORMWATER)

- STORMWATER PIPE
- STORMWATER PIPE - REBOUNDANT
- BATTER DRAIN
- DISH DRAIN
- CATCH DRAIN/OPEN DRAIN
- CATCH DRAIN/OPEN DRAIN - LINED
- SUBSOIL DRAIN - GENERAL
- SUBSOIL DRAIN - CLASS 400
- SUBSOIL DRAIN - CLASS 1000
- SUBSOIL DRAIN - STRIP DRAIN
- SURFACE DRAIN - TYPE A1 (UNLINED)
- SURFACE DRAIN - TYPE A2 (LINED)
- SURFACE DRAIN - TYPE B1 (UNLINED)
- SURFACE DRAIN - TYPE B2 (LINED)
- SURFACE DRAIN - TYPE C1 (UNLINED)
- SURFACE DRAIN - TYPE C2 (LINED)
- SURFACE DRAIN
- SURFACE DRAIN - TYPE 1
- SURFACE DRAIN - TYPE 2
- SURFACE DRAIN - TYPE 3
- SURFACE DRAIN - TYPE 4
- SURFACE DRAIN - TYPE 5
- BOX CULVERT
- PIPE
- ACCESS PIT
- SIDE ENTRY PIT - KERB
- GRATED PIT - KERB
- GRATED PIT - V-GUTTER
- GRATED PIT - OPEN DRAIN
- GRATED PIT - TABLE DRAIN
- CATCH PIT - TABLE DRAIN
- SUBSOIL DRAIN FLUSH POINT
- TOP OF CONCRETE JUNCTION BOX
- INVERT OF SUBSOIL DRAIN OUTLET
- KERB SLOPENER
- OBVERT OF PIPE
- ENDWALL - PLAIN / MC
- ENDWALL - SINGLE & MULTI RC (SQUARE)
- ENDWALL - SINGLE RC (SKEWED)
- ENDWALL - TWIN RC (SKEWED)
- ENDWALL - MULTI RC (SKEWED)
- ENDWALL - DRIVABLE - TYPE 1
- ENDWALL - DRIVABLE - TYPE 2

D DRAIN (STORMWATER) Continued

- DYNB BATTER DRAIN - SPLASH ARON
- DYNB BATTER DRAIN - ENERGY DISSIPATOR
- DYNB PIPE OUTLET - ENERGY DISSIPATOR (ON LINE)
- DYNB PIPE OUTLET - ENERGY DISSIPATOR (OFF LINE)

D ELEC

- LINE - GENERAL
- LINE - MAJOR TRANSMISSION
- LINE - MINOR TRANSMISSION
- LINE - UNDERGROUND
- LINE - REBOUNDANT
- HOUSE CONNECTION
- CONDUIT
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- HIGH TENSION PYLON
- LIGHT WITH OUTREACH
- POLE - LIGHT
- POLE - POWER
- POLE - POWER AND LIGHT
- POWER SERVICE PILLAR
- STAY ANCHOR POLE
- STAY POLE
- TRANSFORMER CABINET CENTRE

D GAS

- MAIN - GENERAL
- ETHANE PIPELINE
- HOUSE CONNECTION
- MAIN - HIGH PRESSURE PRELINE
- MAIN - LOW PRESSURE
- MAIN - NYLON
- MAIN - POLYETHYLENE
- MAIN - REBOUNDANT
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- REGULATOR BOX
- TEST POINT
- VALVE BOX
- VENT PIPE

AMENDED

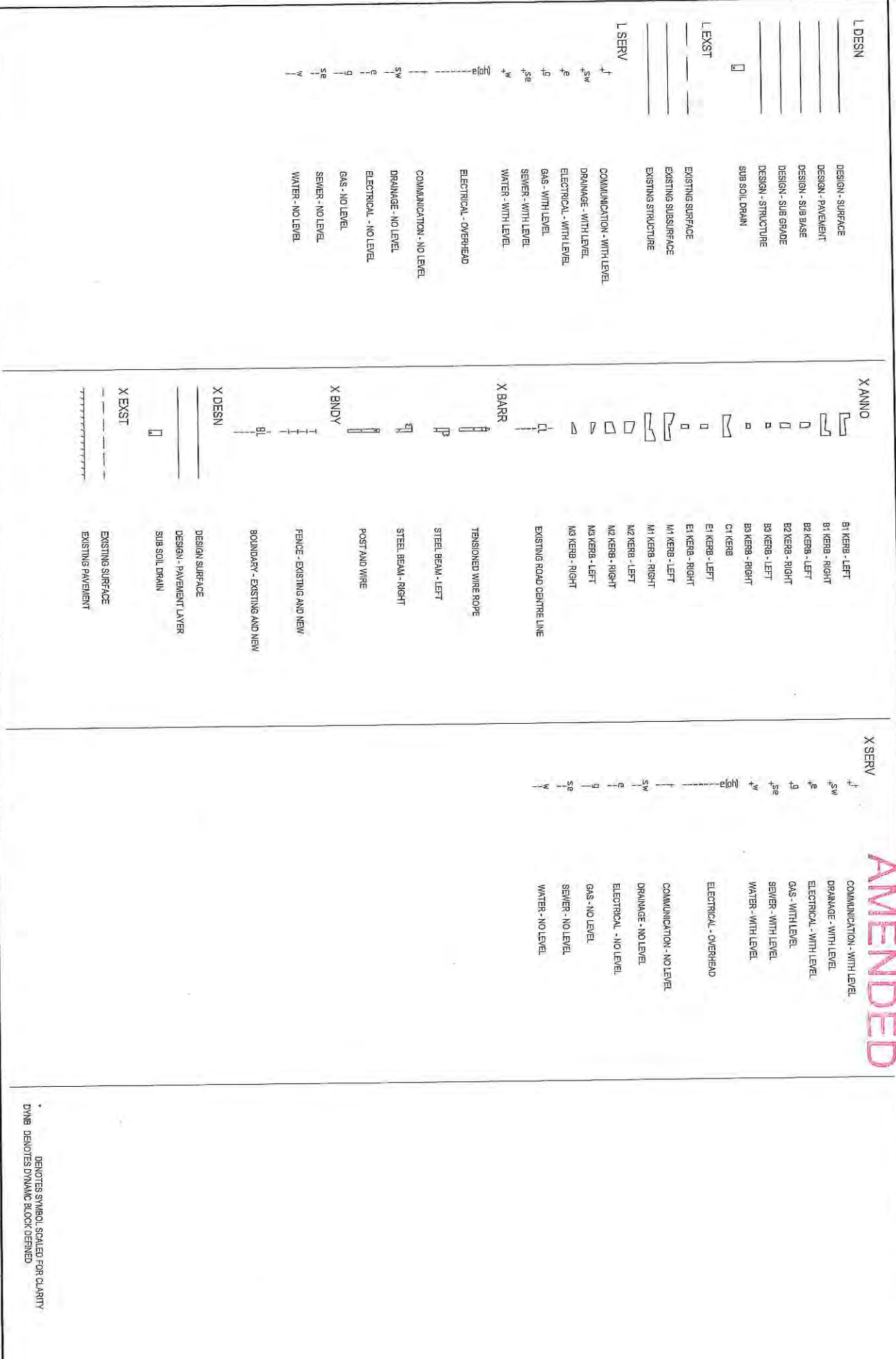
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS

No.	Amendment Description	Initials	Date
0	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020

Co-ordinate System:	MGA 84 ZONE 55	Height Datum:	A.H.D.
DESIGNED:	L. ALLEN	REVIEWED:	D. COE

CONTRACT No.	3288
DRAWING	HB1903-C1018
PRINTED DATE	25-Sep-20, 12:19 PM
REGISTRATION NUMBER	A1109.001
SHEET No.	1008
REVISION	0

AMENDED



L DESN

- DESIGN - SURFACE
- DESIGN - PAVEMENT
- DESIGN - SUB BASE
- DESIGN - SUB GRADE
- DESIGN - STRUCTURE
- SUB SOIL DRAIN

L EXST

- EXISTING SURFACE
- EXISTING SUBSURFACE
- EXISTING STRUCTURE

L SERV

- COMMUNICATION - WITH LEVEL
- DRAINAGE - WITH LEVEL
- ELECTRICAL - WITH LEVEL
- GAS - WITH LEVEL
- SEWER - WITH LEVEL
- WATER - WITH LEVEL
- ELECTRICAL - OVERHEAD
- COMMUNICATION - NO LEVEL
- DRAINAGE - NO LEVEL
- ELECTRICAL - NO LEVEL
- GAS - NO LEVEL
- SEWER - NO LEVEL
- WATER - NO LEVEL

X ANNO

- B1 KERB - LEFT
- B1 KERB - RIGHT
- B2 KERB - LEFT
- B2 KERB - RIGHT
- B3 KERB - LEFT
- B3 KERB - RIGHT
- C1 KERB
- E1 KERB - LEFT
- E1 KERB - RIGHT
- M1 KERB - LEFT
- M1 KERB - RIGHT
- M2 KERB - LEFT
- M2 KERB - RIGHT
- M3 KERB - LEFT
- M3 KERB - RIGHT
- EXISTING ROAD CENTRE LINE

X BARR

- TENSIONED WIRE ROPE

X DESN

- DESIGN SURFACE
- DESIGN - PAVEMENT LAYER
- SUB SOIL DRAIN

X BNDY

- BOUNDARY - EXISTING AND NEW
- FENCE - EXISTING AND NEW

X EXST

- EXISTING SURFACE
- EXISTING PAVEMENT

X SERV

- COMMUNICATION - WITH LEVEL
- DRAINAGE - WITH LEVEL
- ELECTRICAL - WITH LEVEL
- GAS - WITH LEVEL
- SEWER - WITH LEVEL
- WATER - WITH LEVEL
- ELECTRICAL - OVERHEAD
- COMMUNICATION - NO LEVEL
- DRAINAGE - NO LEVEL
- ELECTRICAL - NO LEVEL
- GAS - NO LEVEL
- SEWER - NO LEVEL
- WATER - NO LEVEL

No.	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020
	Amendment Description	Initials	Date
0	ISSUE FOR CONSTRUCTION		
This sheet may be prepared using colour and may be non-compliant if copied			
SCALES		N.T.S.	
DESIGNED BY		L. ALLEN	
REVIEWED BY		D. COE	
pit&sherry			
Department of State Growth EV/ANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EV/ANDALE ROAD) ROADWORKS PROJECT LEGEND - DRG 6			
CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3288	H819503-C1010	23-Sep-20, 12:18 PM	1010
REGISTRATION NUMBER			REVISION 0
A1109.001			

* DENOTES SYMBOL SCALED FOR CLARITY
 DYNB DENOTES DYNAMIC BLOCK DEFINED

AMENDED

STORMWATER : NETWORK 1											
NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
EX-MH-1-5	516798.581	5401098.548	EXISTING	375	170.128			171.321	170.128	1.193	EXISTING PIT
MH-1-4	516789.201	5401135.188	ACCESS PIT	375	170.377	375	170.340	171.518	170.340	1.178	3402-9/P24-6
EX-MH-1-3	516782.212	5401143.756	EXISTING	375	170.459			171.571	170.419	1.152	EXISTING PIT
SEP-MH-1-2	516754.773	5401148.145	M1 SIDE ENTRY PIT	375	170.583			171.869	170.502	1.197	3402-9/P24-4
GP OD-1-1	516732.437	5401145.851	OD GRATED PIT	375	170.559	375	170.569	171.194	170.569	0.625	3402-9/P20-2
SEP-MH-1-8	516765.882	5401133.804	M1 SIDE ENTRY PIT	375	170.486	375	170.448	171.57	170.448	1.124	3402-9/P24-4
SEP-MH-1-7	516767.624	5401126.575	M1 SIDE ENTRY PIT	375	170.533	375	170.533	171.523	170.533	0.989	3402-9/P24-4
SEP-MH-1-6	516777.159	5401155.203	M1 SIDE ENTRY PIT	375	170.563	375	170.563	171.384	170.563	0.821	3402-9/P24-4

STORMWATER : NETWORK 2											
NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
MH-2-OUTFALL	516573.992	5401346.016	RC ENDWALL	750	171.772			171.773	171.772		3402-2/P13-3
MH-2-2	516568.754	5401347.881	ACCESS PIT	750	171.000	750	171.806	172.973	171.809	1.164	REFER BELOW
MH-2-1	516553.538	5401375.860	RC ENDWALL					171.505	171.505	0.000	3402-2/P14-2

STORMWATER : NETWORK 3											
NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
MH-3-OUTFALL	516553.311	5401379.273	PLAIN ENDWALL	375	171.700			172.300	171.700		3402-2/P24-2
SEP-MH-3-5	516558.124	5401388.02	M1 SIDE ENTRY PIT	375	172.404	375	171.883	173.790	171.883	1.807	3402-9/P24-4
SEP-MH-3-4	516577.07	5401397.789	M1 SIDE ENTRY PIT	375	172.574	375	172.524	173.633	172.524	1.109	3402-9/P24-4
SEP-MH-3-3	516545.566	5401437.179	M1 SIDE ENTRY PIT	375	172.874	375	172.824	173.922	172.824	1.098	3402-9/P24-4
SEP-MH-3-2	516515.548	5401478.629	M1 SIDE ENTRY PIT	375	173.490	375	173.340	174.317	173.34	0.978	3402-9/P24-4
MH-3-1	516516.803	5401477.822	PLAIN ENDWALL					173.508	173.508	0.009	3402-2/P24-2

STORMWATER : NETWORK 4											
NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
MH-4-OUTFALL	516455.839	5401502.585	RC ENDWALL	750	173.340			173.340	173.340		3402-2/P13-3
MH-4-5	516456.730	5401508.863	ACCESS PIT	750	173.420	750	173.370	174.833	173.370	1.463	3402-9/P23-5
EX-4-4	516454.476	5401511.771	EXISTING	375	173.470	375	173.438	174.649	173.438	1.211	EXISTING PIT
SEP-MH-4-3	516445.873	5401529.905	M1 SIDE ENTRY PIT	375	173.790	375	173.571	175.050	173.571	1.480	3402-9/P24-4
GP-MH-4-2	516462.817	5401542.023	M1 GRATED PIT DELECTOR	375	173.945	375	173.885	174.921	173.885	1.027	3402-2/P29-1
GP-MH-4-1	516434.270	5401578.138	M1 GRATED PIT DELECTOR			375	174.301	175.277	174.301	0.976	3402-2/P29-1
GP OD-4-6	516440.498	5401532.803	OD GRATED PIT			375	173.651	174.732	173.651	1.101	3402-9/P20-2

STORMWATER : NETWORK 5											
NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
MH-5-OUTFALL	516388.252	5401717.766	PLAIN ENDWALL	375	173.100			173.141	173.100		3402-2/P24-2
SEP-MH-5-6	516389.771	5401714.429	M1 SIDE ENTRY PIT	375	173.208	375	173.158	174.391	173.158	1.233	3402-9/P24-4
MH-5-5	516372.389	5401708.281	ACCESS PIT	375	173.201	375	173.251	174.638	173.251	1.387	3402-9/P23-5
SEP-MH-5-4	516377.403	5401699.127	M1 SIDE ENTRY PIT	375	173.492	375	173.413	174.527	173.413	1.115	3402-9/P24-4
SEP-MH-5-3	516381.436	5401682.535	M1 SIDE ENTRY PIT	375	173.67	375	173.606	175.302	173.606	1.495	3402-9/P24-4
SEP-MH-5-2	516363.83	5401639.286	M1 SIDE ENTRY PIT	375	174.053	375	174.003	175.532	174.003	1.529	3402-9/P24-4
GP OD-5-1	516373.363	5401619.014	OD GRATED PIT			375	174.165	174.865	174.165	0.700	3402-9/P20-2
GP OD-5-7	516351.983	5401699.452	OD GRATED PIT			375	174.366	175.256	174.366	0.900	3402-9/P20-2

NOTE:
 MH2-1 TO BE 1200x1200 HEAVY DUTY PRECAST STORMWATER PIT

ISSUE FOR CONSTRUCTION Amendment Description No. 0 Date 23/09/2020 Initials D.C.		Co-ordina System: MSA 41 ZONE 55 Height Datum: A.H.D.		SCALES N.T.S.		DESIGNED: L ALLEN REVIEWED: D. COE		Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS NODE SCHEDULE - SHEET 1		CONTRACT No. 3288 DRAWING: HB19303-C1016 PRINTED DATE: 23-Sep-20, 12:18 PM REGISTRATION NUMBER: A1109.001		SHEET No. 1016 REVISION: 0	
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AMENDED

STORMWATER : NETWORK 6

NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET INVERT LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
HW-6-OUTFALL	518301.676	5401676.272	RC ENDWALL	800	174.700			174.700	174.700		3402-2/P14-2
MH-6-4	518302.005	5401672.986	ACCESS PIT	375	174.788	900	174.720	176.128	174.720	1.408	3402-2/P23-5
GP-M-6-3	518300.729	5401664.509	M1 GRATED PIT DEFLECTOR	375	174.879	375	174.829	175.988	174.829	1.189	3402-2/P29-1
GP-M-6-2	518320.722	5401653.880	M1 GRATED PIT DEFLECTOR	375	175.049	375	174.999	176.011	174.999	1.012	3402-2/P29-1
EX-7-1	518320.592	5401648.318	EXISTING				175.270	176.293	175.270	1.023	EXISTING PIT

STORMWATER : NETWORK 7

NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET INVERT LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
HW-7-OUTFALL	518324.692	5401730.528	RC ENDWALL	800	173.886			174.841	173.886		3402-2/P14-2
SEP-M-7-4	518321.786	5401727.110	M1 SIDE ENTRY PIT	600	174.379	600	173.889	175.756	173.889	1.866	3402-2/P24-4
SEP-M-7-3	518289.900	5401710.343	M1 SIDE ENTRY PIT	600	174.561	600	174.531	175.946	174.531	1.415	3402-2/P24-4
SEP-M-7-2	518285.423	5401729.888	M1 SIDE ENTRY PIT	600	174.753	600	174.703	176.005	174.703	1.301	3402-2/P24-4
DE TYPE 1-7-1	518276.776	5401741.208	DRIVEABLE TYPE 1				174.824	174.967	174.824	0.143	3402-2/P35-2

STORMWATER : NETWORK 8

NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET INVERT LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
HW-8-OUTFALL	518668.305	5401234.024	PLAIN ENDWALL	375	170.901			171.192	170.901		3402-2/P24-2
GP M1-8-1	518675.955	5401240.084	M1 GRATED PIT DEFLECTOR				170.960	171.987	170.960	1.027	3402-2/P29-1

SEWER : NETWORK 1

NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET INVERT LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
SEW-1-1	518342.865	5401649.913	ACCESS PIT	225	173.282			175.747	173.282	2.485	WSAA SEW MH DN1050
SEW-1-2	518319.210	5401651.174	ACCESS PIT	225	173.449	225	173.399	176.084	173.399	2.685	WSAA SEW MH DN1051
SEW-1-3	518295.910	5401675.776	ACCESS PIT	225	173.665	225	173.615	176.188	173.615	2.540	WSAA SEW MH DN1052
SEW-1-4	518289.807	5401716.056	ACCESS PIT				174.076	175.212	174.076	1.144	WSAA SEW MH DN1053

SEWER : NETWORK 2

NODE NAME	EASTING	NORTHING	TYPE	INLET DIAMETER (mm)	INLET LEVEL (m)	OUTLET DIAMETER (mm)	OUTLET INVERT LEVEL (m)	COVER LEVEL (m)	NODE INVERT LEVEL (m)	DEPTH TO NODE INVERT (m)	REFERENCE
SEW-2-1	516586.988	5401349.895	ACCESS PIT	225	225			173.173	170.264	2.909	WSAA SEW MH DN1053
SEW-2-2	516575.534	5401349.936	ACCESS PIT	225		225	170.321	173.036	170.321	2.7150	WSAA SEW MH DN1053

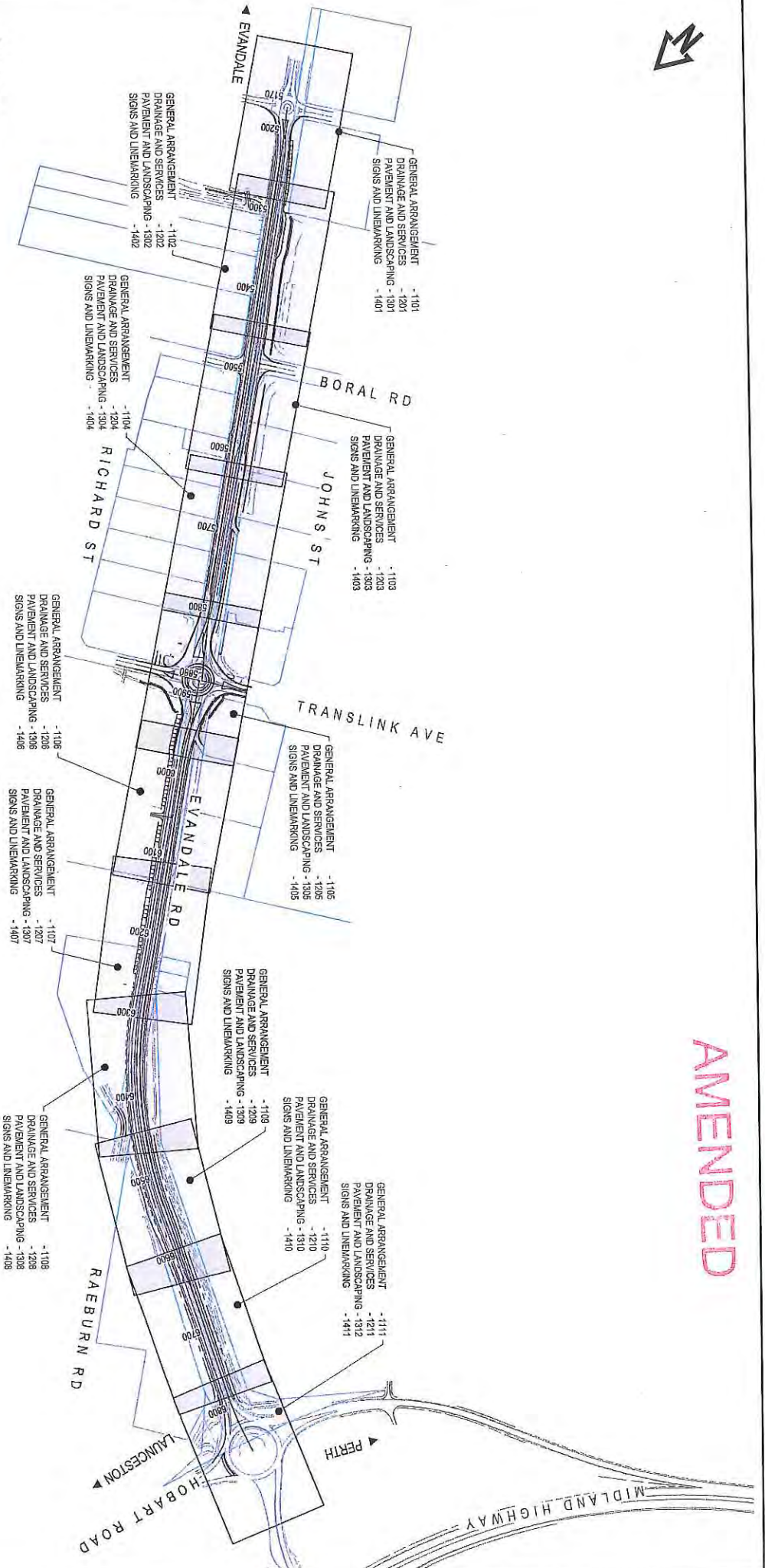
NOTE:
SEP-M-7-2 TO BE INSTALLED WITH LARGER CHAMBER TO ALLOW INSTALLATION OF PIPES ON ANGLE

Issue For Construction	23/09/2020	Amendment Description		Initials		Date	
<p style="text-align: center;">SCALES N.T.S.</p>				<p style="text-align: center;">pit&sherry <small>Engineering & Construction</small></p>			
<p style="text-align: center;">Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNGESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS</p>				<p style="text-align: center;">DESIGNED: L ALLEN REVIEWED: D COE</p>			
<p style="text-align: center;">CONTRACT No. 3288</p>				<p style="text-align: center;">DRAWING: HB18603-C1017</p>			
<p style="text-align: center;">REGISTRATION NUMBER: A1109.001</p>				<p style="text-align: center;">PRINTED DATE: 23-Sep-20 12:18 PM</p>			
<p style="text-align: center;">NODE SCHEDULE - SHEET 2</p>				<p style="text-align: center;">SHEET No. 1017</p>			
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LAUNCESTON
AIRPORT

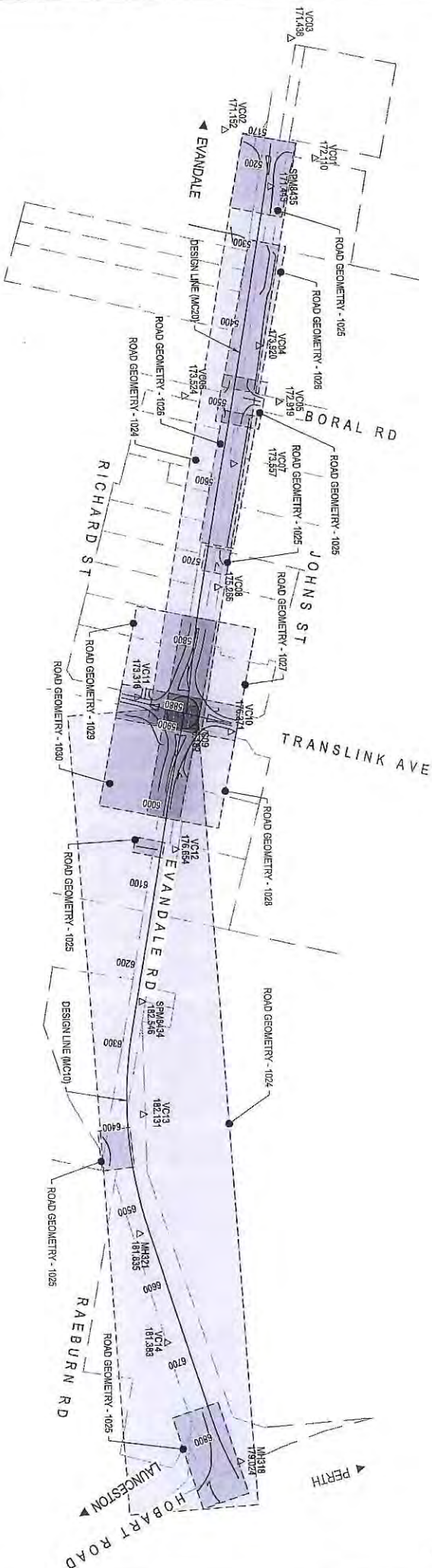


AMENDED

<p>0 ISSUE FOR CONSTRUCTION</p> <p>Amendment Description</p>		<p>D.C.</p> <p>23/09/2020</p>	
<p>No.</p> <p>As original</p>		<p>This sheet may be prepared using colour and may be incorporated if copied</p>	
<p>SCALES</p> <p>1:5000 (A3)</p> <p>SCALE LENGTH: 1:500</p> <p>Height Datum: A.H.D.</p>		<p>DESIGNED: L. ALLEN</p> <p>REVIEWED: D. COPE</p>	
<p>Department of State Growth</p> <p>EVANDALE MAIN ROAD (A1109)</p> <p>LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)</p> <p>ROADWORKS</p> <p>GENERAL ARRANGEMENT - KEY PLAN</p>			
<p>CONTRACT No.</p> <p>3288</p>	<p>DRAWING</p> <p>HB19E03-C1021</p>	<p>PRINTED DATE</p> <p>23-Sep-20 12:19 PM</p>	<p>SHEET No.</p> <p>1021</p>
<p>REGISTRATION NUMBER</p> <p>A1109.001</p>		<p>REVISION 0</p>	



LAUNCESTON AIRPORT



SURVEY CONTROL - SETOUT POINTS			
POINT	EASTING	NORTHING	LEVEL
MH018	516801.213	5402254.386	179.024
MH021	516898.880	5402151.879	181.835
SP0424	516100.586	5401961.124	182.246
SP0435	516747.439	5401158.799	171.443
VC01	516737.100	5401093.118	172.110
VC02	516838.802	5401154.209	171.182
VC03	516868.283	5401016.212	171.438
VC04	516610.895	5401303.248	173.920
VC05	516542.961	5401302.162	172.919

SURVEY CONTROL - SETOUT POINTS			
POINT	EASTING	NORTHING	LEVEL
VC06	516828.372	5401414.882	173.524
VC07	516824.314	5401428.274	173.587
VC08	516424.821	5401544.256	175.686
VC09	516839.430	5401684.178	176.182
VC10	516281.177	5401652.816	176.371
VC11	516392.019	5401711.439	173.316
VC12	516220.186	5401802.789	176.854
VC13	516803.850	5402054.798	182.131
VC14	515722.278	5402223.374	181.393

No.	Amendment Description	D.C.	Initials	Date
0	ISSUE FOR CONSTRUCTION			
	Amendment Description			

SCALES
1:5000 (A3)

Co-ordinate System: MGA 94 ZONE 55 Height datum: A.H.D.

DESIGNED: L. ALLEN
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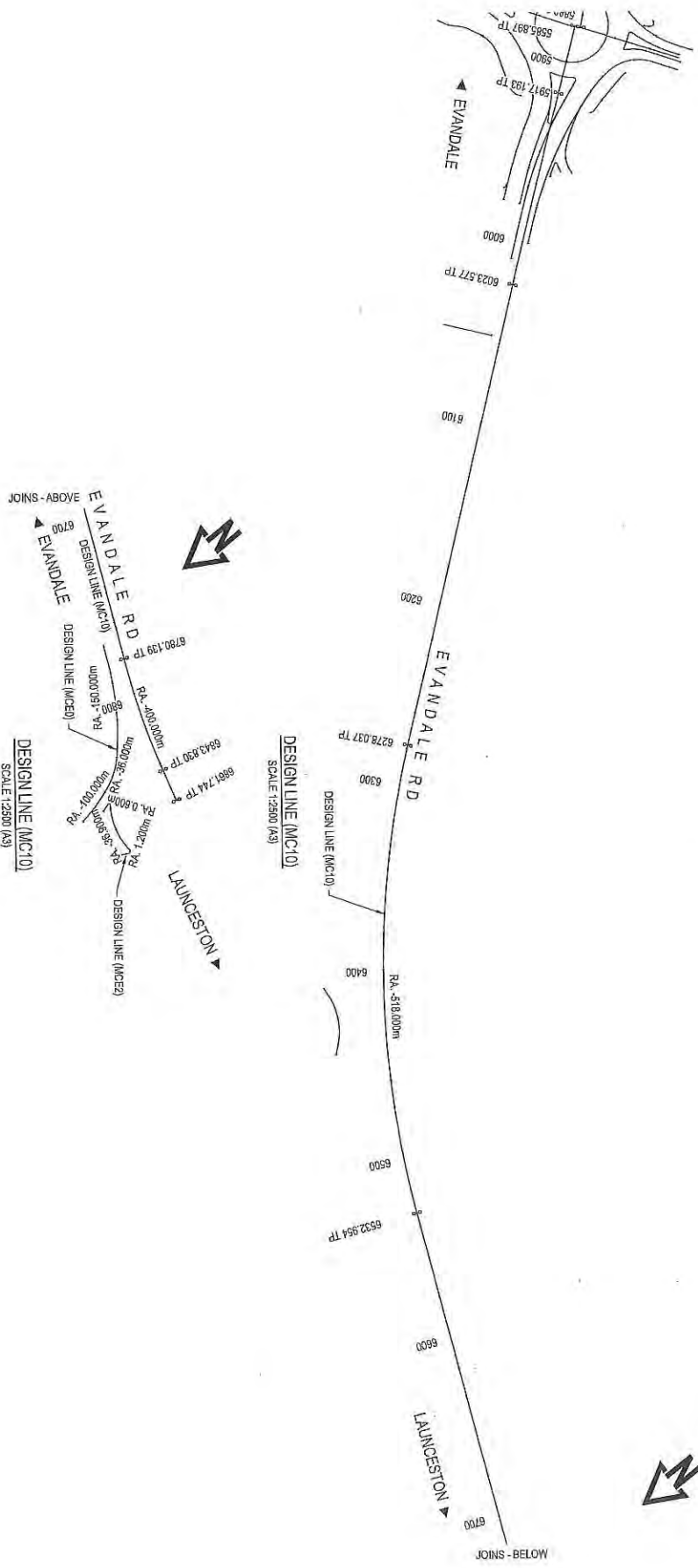
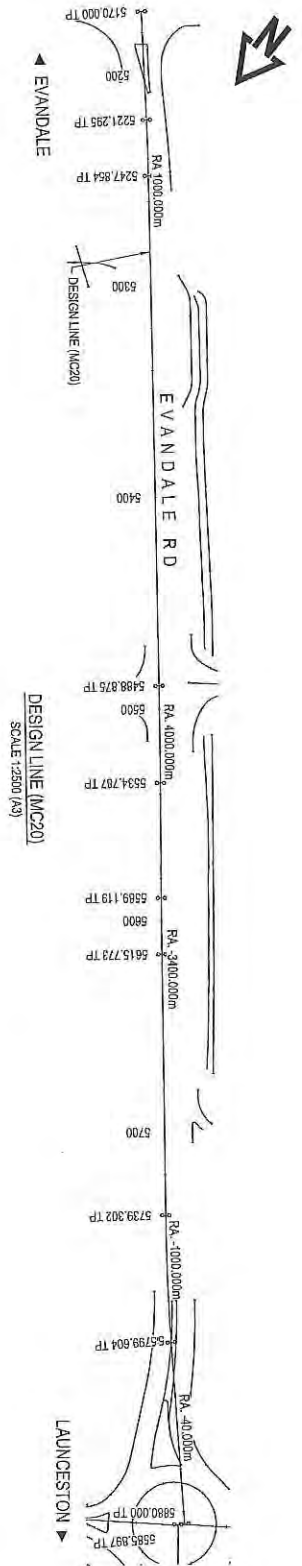
Department of State Growth
EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS
ALIGNMENT AND SURVEY CONTROL - KEY PLAN

CONTRACT No. 3288	DRAWINGS HB191503-C1023	PRINTED DATE 23-Sep-20, 12:18 PM	SHEET No. 1023
REGISTRATION NUMBER A1109.001		REVISION D	

AMENDED

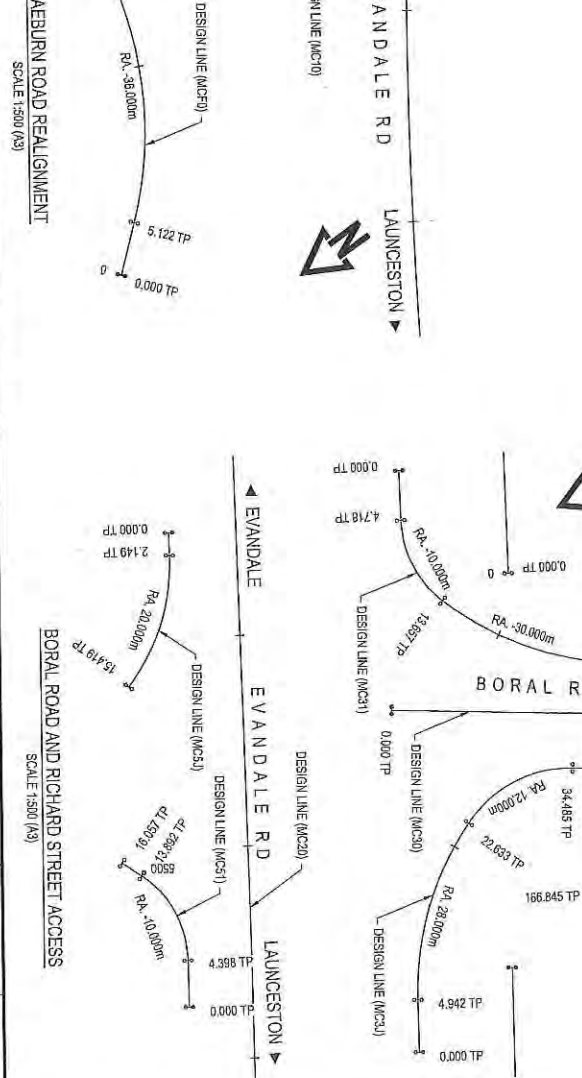
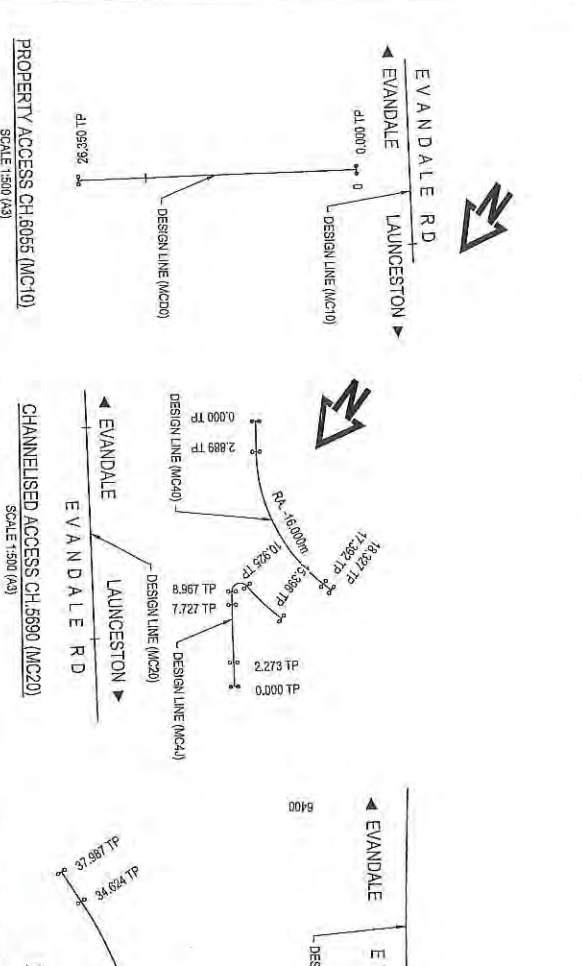
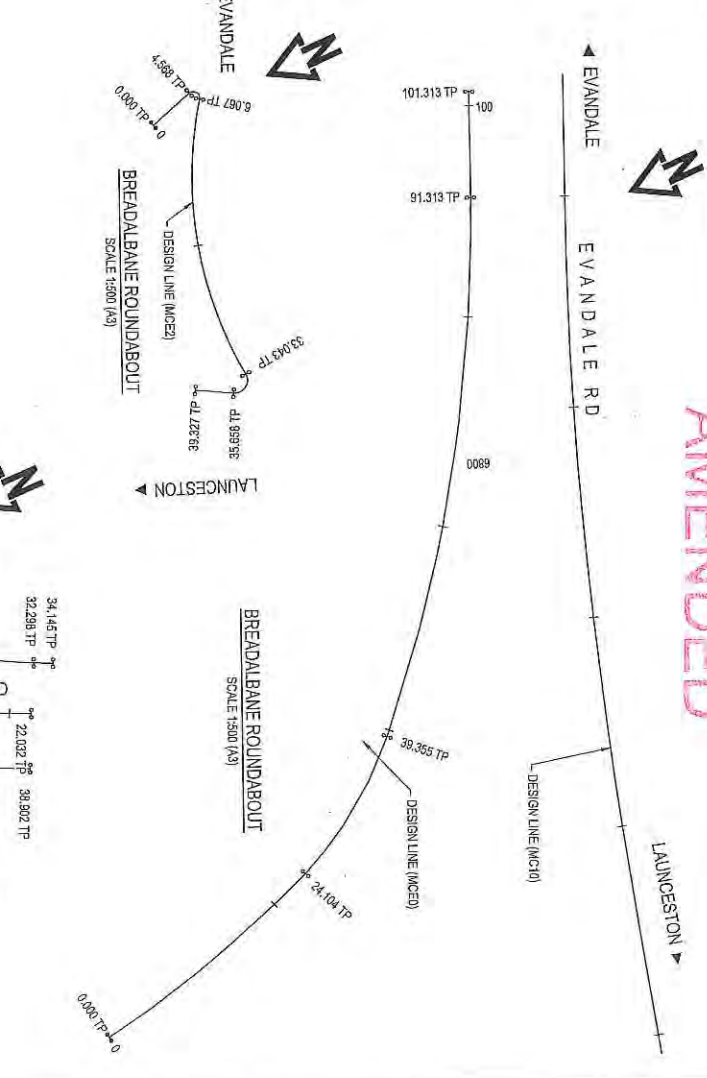
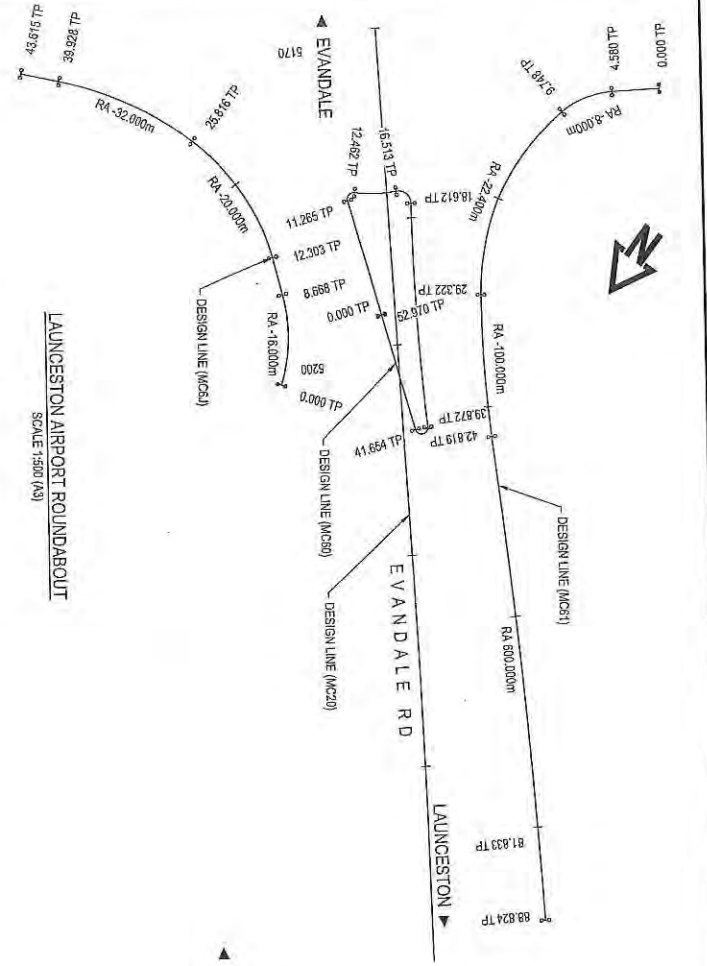
MIDLAND HIGHWAY

AMENDED



No. 0 ISSUE FOR CONSTRUCTION Amendment Description Initials Date 26/08/2020		D.C. 26/08/2020	
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SCALES 1:2500 (A3)		pit&sherry CONSULTANTS	
DESIGNED: L. ALLEN REVIEWED: D. COPE		Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS ALIGNMENT AND SURVEY CONTROL - DRG 1	
CONTRACT No. 3288	DRAWING H818503-C1024	PRINTED DATE 23-Sep-20 12:19 PM	SHEET No. 1024
REGISTRATION NUMBER A1109.001		REVISION: 0	

AMENDED



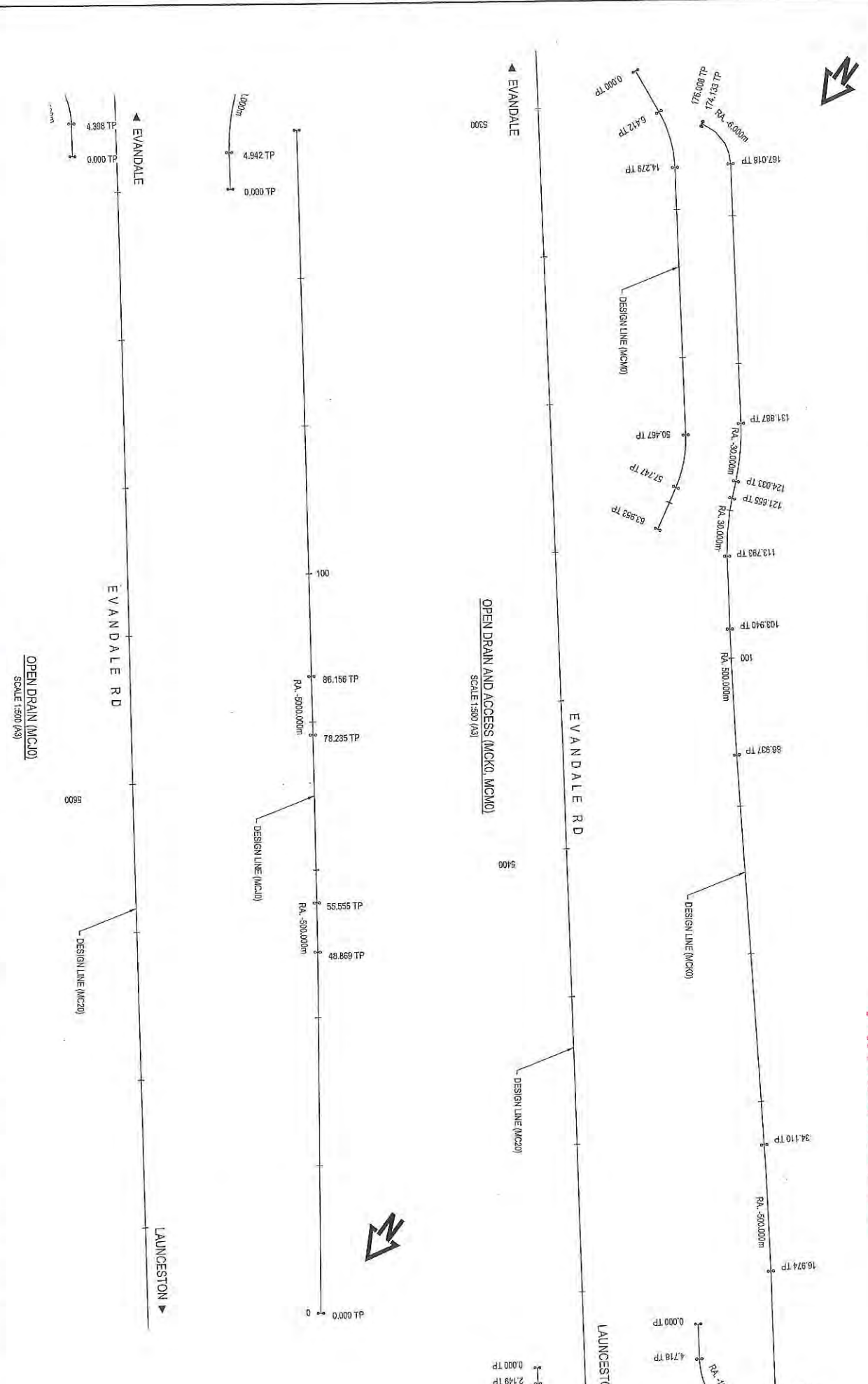
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Initials		Date	
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Department of State Growth
EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS
ALIGNMENT AND SURVEY CONTROL - DRG 2

pitt&sherry
DESIGNED: L. ALLEN
REVIEWED: D. COE

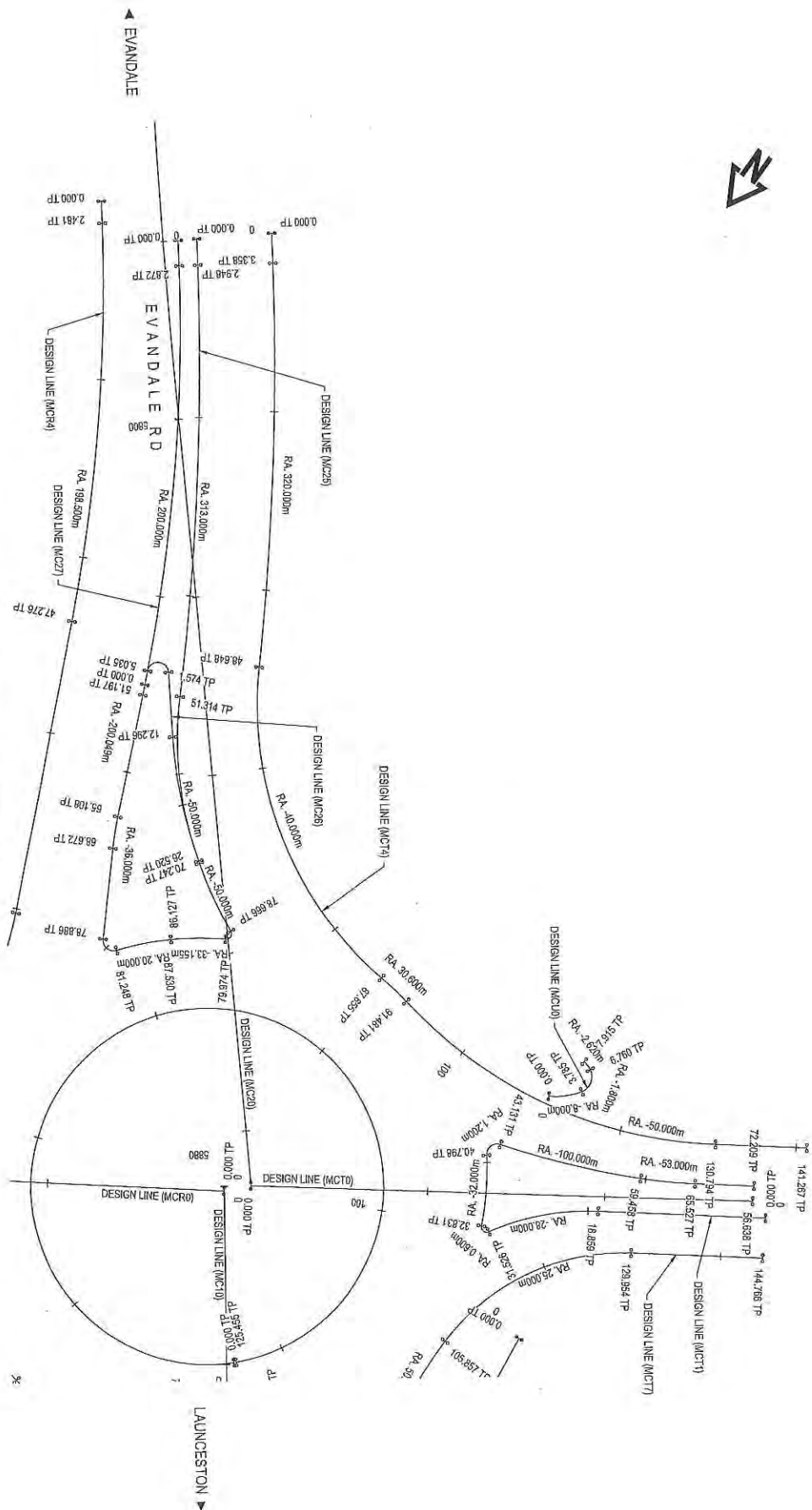
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DRAWING: H819603-C1025
PRINTED DATE: 23 Sep 20 12:18 PM
REGISTRATION NUMBER: A1109.001
SHEET NO. 1025
REVISION 0

AMENDED



<p>Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS</p>		<p>CONTRACT No. 3268</p>		<p>DRAWINGS HB19503-C1026</p>		<p>PRINTED DATE 23-Sep-20 12:19 PM</p>		<p>SHEET No. 1026</p>	
<p>ALIGNMENT AND SURVEY CONTROL - DRG 3</p>		<p>DESIGNED L. ALLEN</p>		<p>REVIEWED D. COPE</p>		<p>SCALE 1:500 (A3)</p>		<p>REVISION 0</p>	
<p>pit&sherry CONSULTING ENGINEERS</p>		<p>DESIGNED L. ALLEN</p>		<p>REVIEWED D. COPE</p>		<p>SCALE 1:500 (A3)</p>		<p>REVISION 0</p>	
<p>Issue for Construction Amendment Description</p>		<p>D.C. 23/09/2020</p>		<p>Date</p>		<p>SCALE 1:500 (A3)</p>		<p>REVISION 0</p>	
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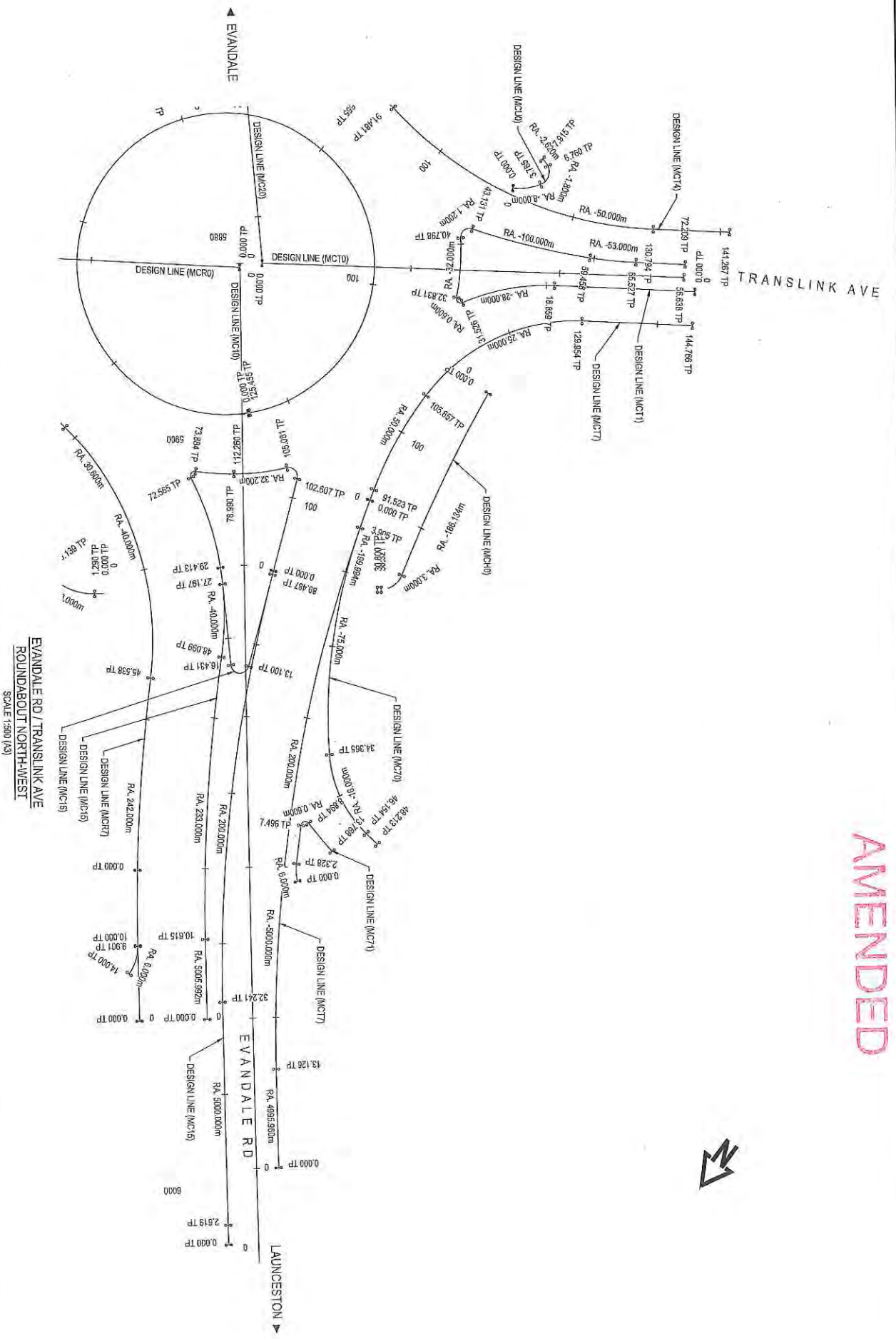
AMENDED



EVANDALE RD / TRANSLINK AVE
 ROUNDABOUT SOUTH-WEST
 SCALE 1:500 (A3)

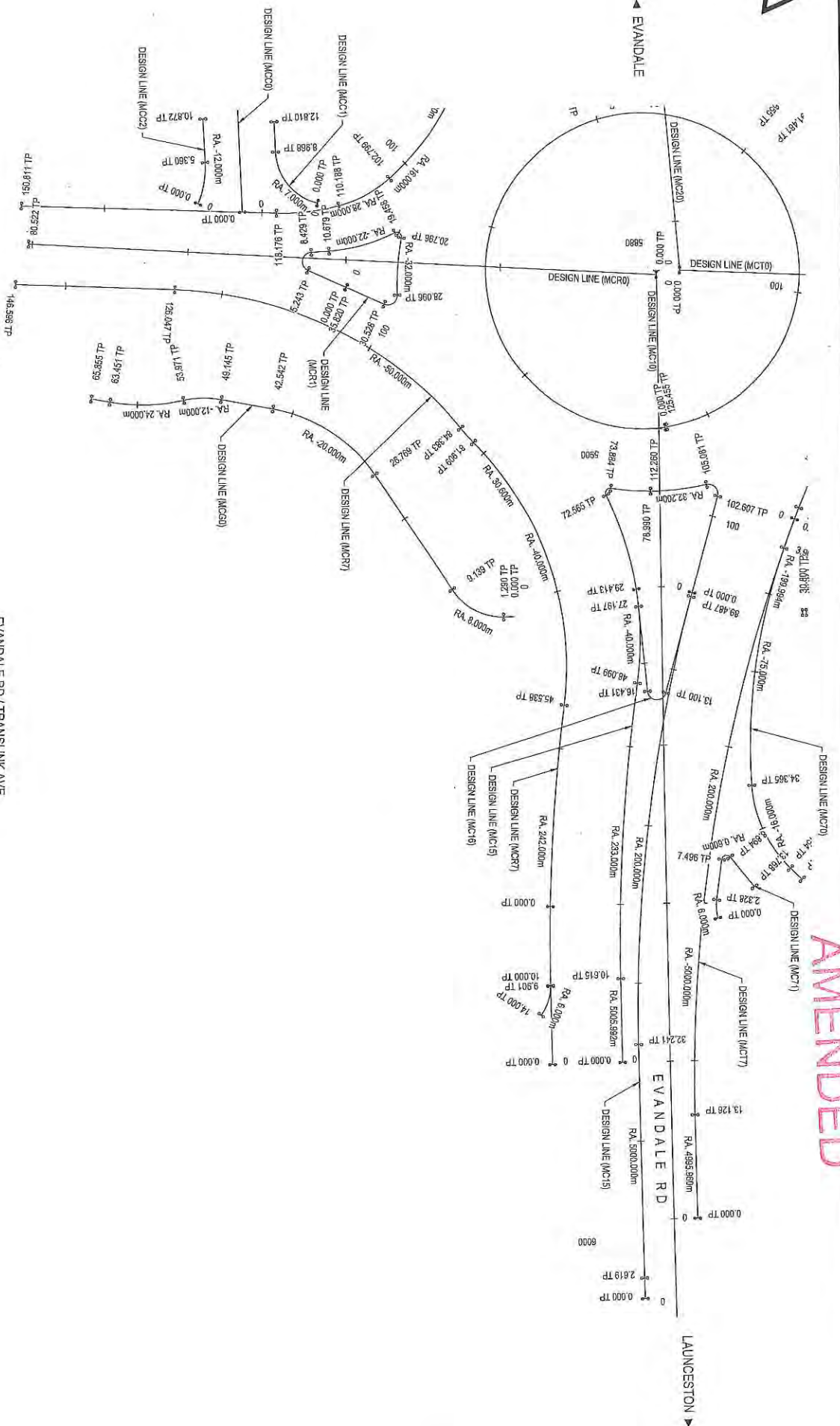
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No. 0 ISSUE FOR CONSTRUCTION Amendment Description Initials Date 23/09/2020		D.C. 23/09/2020 Initials Date		DESIGNED L. ALLEN REVIEWED D. COPE	
No. 0 This sheet may be prepared using colour and may be incomplete if copied		Co-ordinate System: MGA 94 ZONE 55 Height Datum: A.H.D.		ALIGNMENT AND SURVEY CONTROL - DRG 4	
CONTRACT NO. 3288		DRAWING HB19506-C-1027		PRINTED DATE 23 Sep 20 12:19 PM	
REGISTRATION NUMBER A1109.001		SHEET NO. 1027		REVISION 0	

AMENDED



EVANDALE RD / TRANSLINK AVE
 ROUNDABOUT NORTH-WEST
 SCALE 1:500 (A3)

<p>Department of State Growth</p> <p>EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS</p> <p>ALIGNMENT AND SURVEY CONTROL - DRG 5</p>		<p>CONTRACT No. 3268</p> <p>DRAWING HB18503-C-1028</p> <p>PRINTED DATE 23 Sep 20 12:20 PM</p>		<p>SHEET No. 1028</p>	
<p>pit&shery</p> <p>DESIGNED L. ALLEN REVIEWED D. COE</p>		<p>REGISTRATION NUMBER A1109.001</p>		<p>REVISION 0</p>	
<p>SCALES 1:500 (A3)</p> <p>STATES: 1:500</p> <p>STATES: 1:500</p>		<p>ISSUE FOR CONSTRUCTION</p> <p>Amendment Description</p> <p>No. 0</p> <p>Date 23/09/2020</p> <p>DC</p>		<p>STATES: 1:500</p> <p>STATES: 1:500</p>	
<p>Co-ordinate System: MGA 94 ZONE 55</p> <p>Height Datum: A.H.D.</p>		<p>STATES: 1:500</p> <p>STATES: 1:500</p>		<p>STATES: 1:500</p> <p>STATES: 1:500</p>	
<p>A3 original</p> <p>This sheet may be prepared using colour and may be incomplete if copied</p>		<p>STATES: 1:500</p> <p>STATES: 1:500</p>		<p>STATES: 1:500</p> <p>STATES: 1:500</p>	



EVANDALE RD / TRANSLINK AVE
 ROUNDABOUT NORTH-EAST
 SCALE: 1:500 (A3)

AMENDED

No.	ISSUE FOR CONSTRUCTION	Amendment Description
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	HRH88	Date

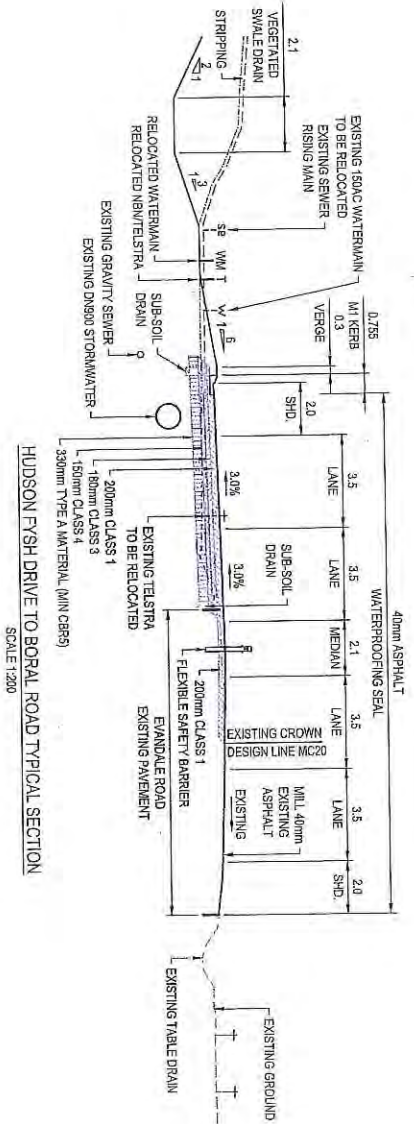
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1:500 (A3)	SCALE IN METRES: 1:500
Coordinate System: MGA 84 ZONE 55 Height datum: AHD.	

DESIGNED: L. ALLEN
 REVIEWED: D. COE

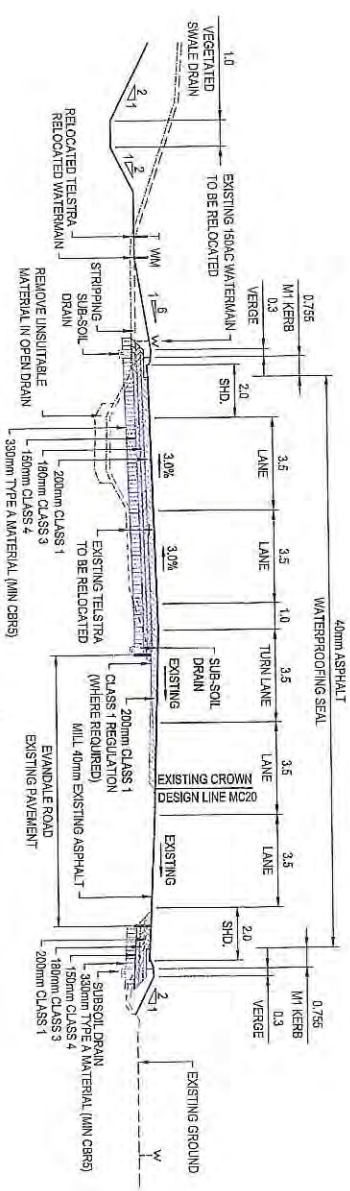
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 ALIGNMENT AND SURVEY CONTROL - DRG 7

CONTRACT No.	3298	DRAWING	WB19503-C1030	PRINTED DATE	23-Sep-20, 12:20 PM	SHEET No.	1030
		REGISTRATION NUMBER	A1109.001			REVISION	0

AMENDED



HUDSON FISH DRIVE TO BORAL ROAD TYPICAL SECTION
SCALE 1:200



BORAL ROAD TURN LANE TYPICAL SECTION
SCALE 1:200



No.	0	ISSUE FOR CONSTRUCTION
Amendment Description		
Initials	D.C.	23/09/2020
Date		
As original This sheet may be prepared using colour and may be incomplete if copied		

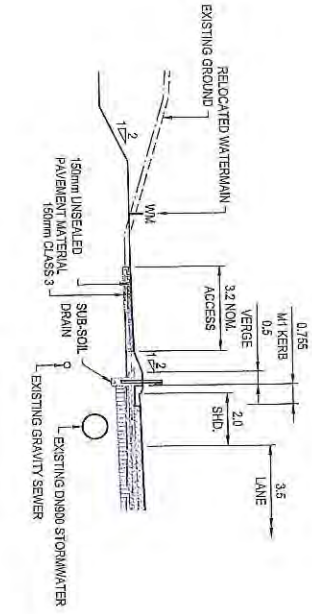
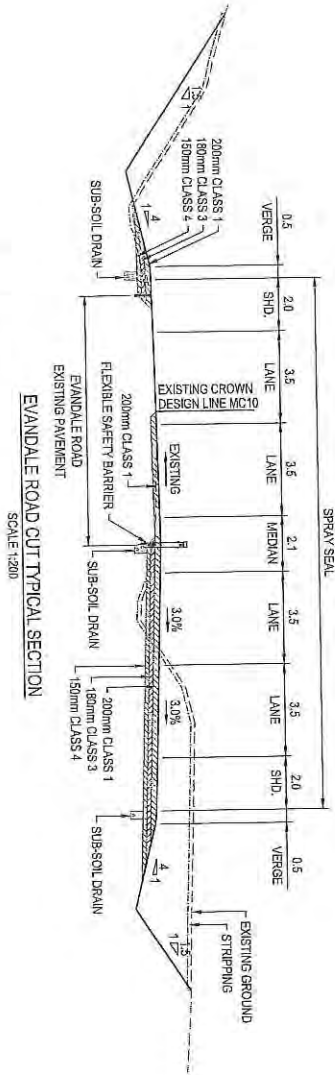
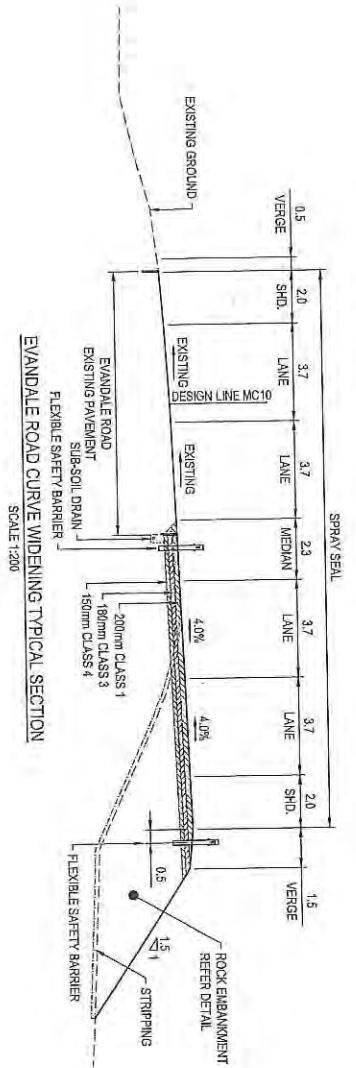
DESIGNED L. ALLEN
REVIEWED D. COPE

Department of State Growth
EVANDALE MAIN ROAD (A1109)
LANCASTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS
TYPICAL CROSS SECTIONS - DRG 1

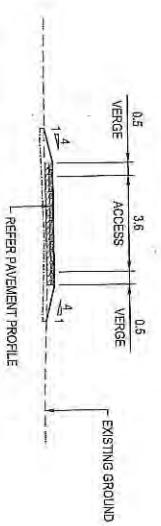
CONTRACT No.	3288	DRAWING	HB19035-C1031	PRINTED DATE	23-Sep-20, 12:20 PM
REGISTRATION NUMBER	A1109.001				

SHEET No. 1031
REVISION 0

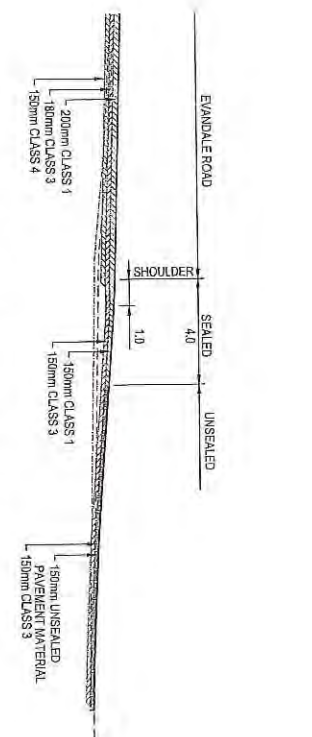
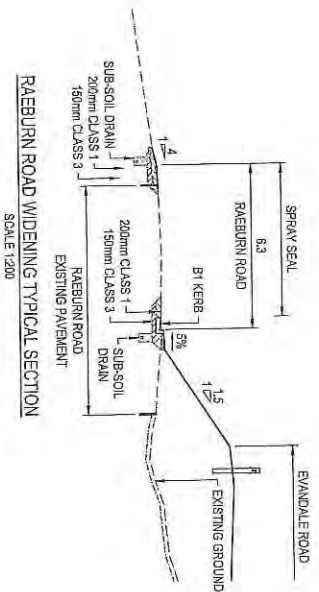
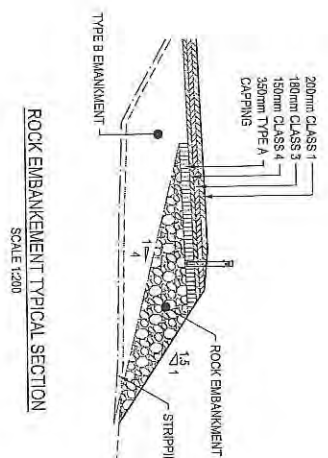
AMENDED



TASWATER MAINTENANCE ACCESS
SCALE 1:200



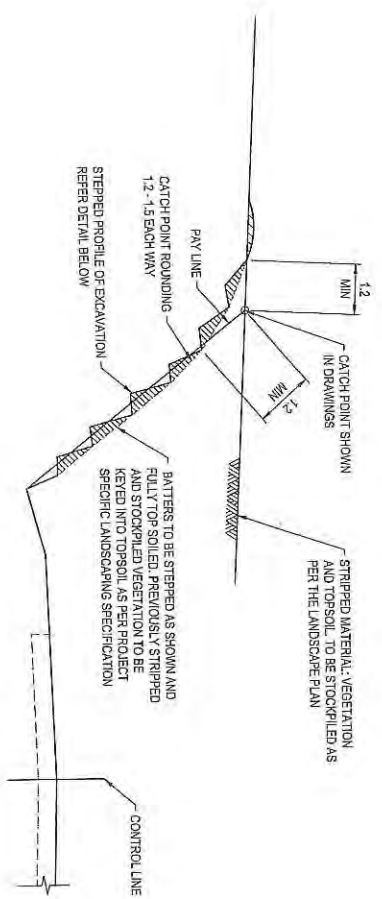
PROPERTY ACCESS CH.16055 (MC10) TYPICAL SECTION
SCALE 1:200



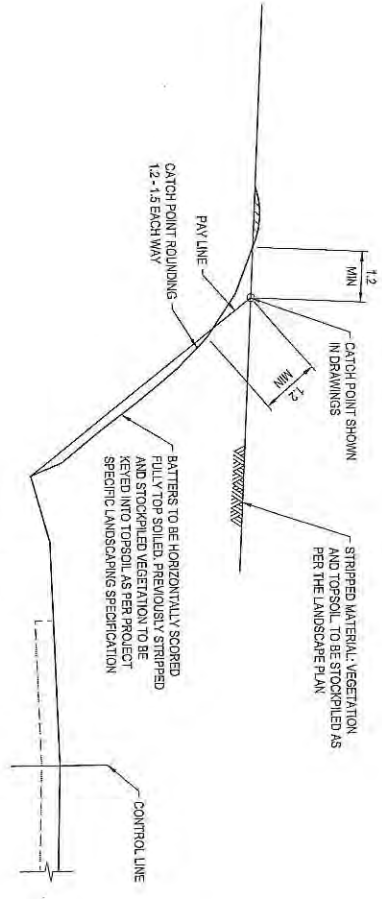
PROPERTY ACCESS CH.16055 (MC10) PAVEMENT PROFILE
SCALE 1:200

<p>Department of State Growth EVAINDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVAINDALE ROAD) ROADWORKS</p>		<p>CONTRACT No. 3208 DRAWING H8195/03-CT1033 PRINTED DATE 22-SEP-20, 12:20 PM</p>	
<p>DESIGNED: L. ALLEN REVIEWED: D. COE</p>		<p>REGISTRATION NUMBER A1109.001</p>	
<p>DESIGNED BY: pitt&sherry REVIEWED BY: D. COE</p>		<p>SHEET No. 1033</p>	
<p>SCALES 1:200 (A3) SCALE BAR: 1:200 HEIGHT BAR: A.H.D.</p>		<p>REVISION 0</p>	
<p>0 ISSUE FOR CONSTRUCTION Amendment Description: D.C. 23/09/2020 No. 0 As original</p>			

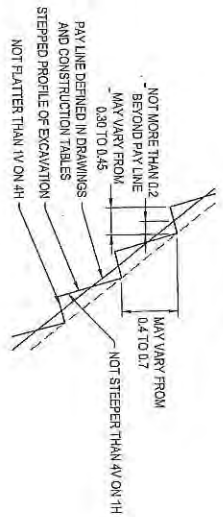
AMENDED



TYPICAL SECTION
CUT BATTER OVER 1m HEIGHT
SCALE 1:100



TYPICAL SECTION
CUT BATTER UNDER 1m HEIGHT
SCALE 1:100



TYPICAL DETAIL
STEPPED PROFILE
SCALE 1:100

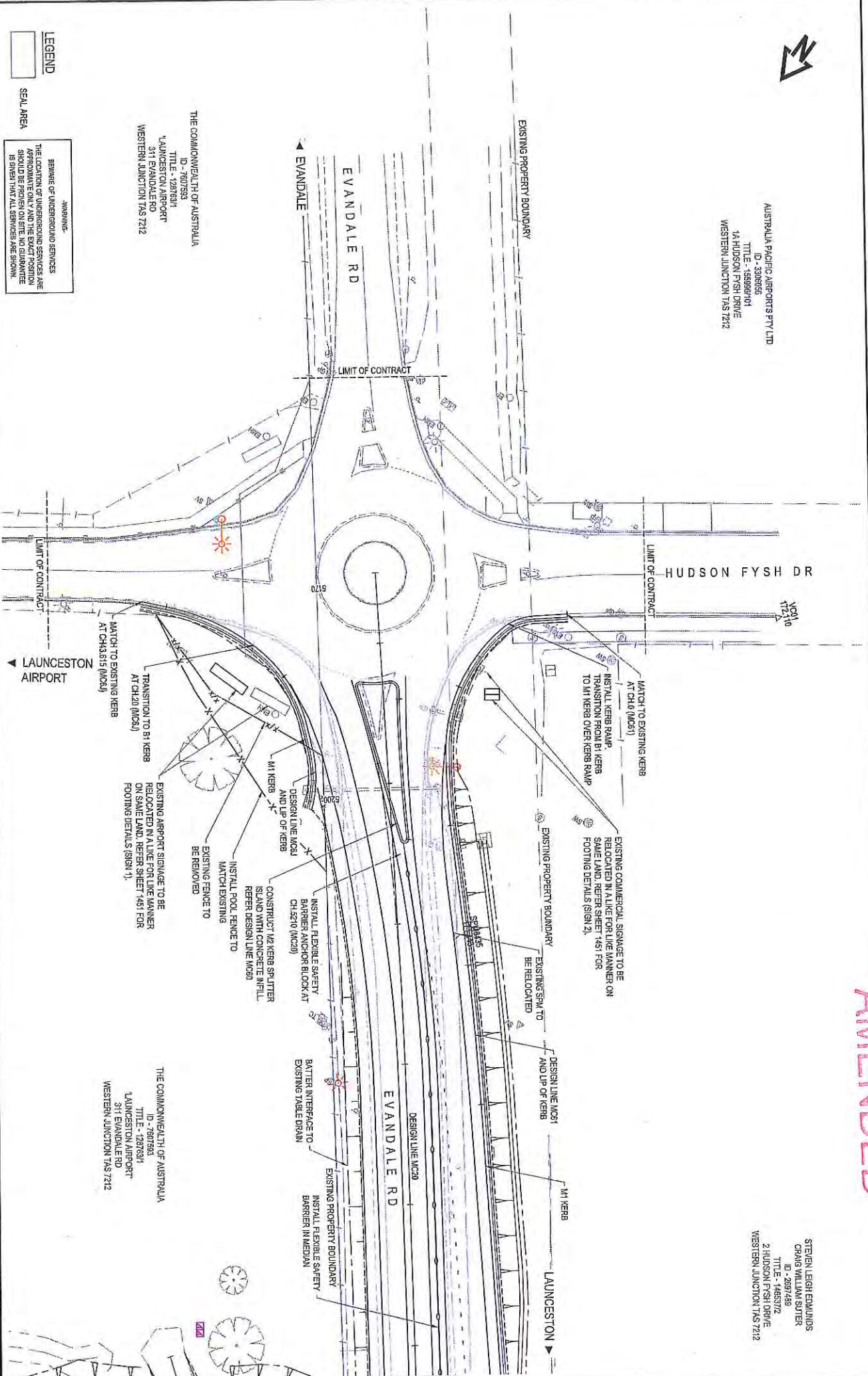
- NOTES:
1. DO NOT USE IN SOFT/DISPERSING SOILS
 2. DIMENSIONS ARE IN METERS UNLESS SHOWN OTHERWISE
- ASSOCIATED DEPARTMENT DOCUMENTS:
- STANDARD SPECIFICATIONS

No.		Amendment Description		Initials		Date		Scales		DESIGNED		REVIEWED		Department of State Growth		CONTRACT No.		DRAWING		PRINTED DATE		SHEET No.	
0		ISSUE FOR CONSTRUCTION		D.C.		20/09/2020		1:100 (A3)		L. ALLEN		D. COE		EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS		3268		H819803-C104		29-Sep-20, 12:20 PM		1034	
A3 original		This sheet may be prepared using colour and may be incomplete if copied						SCALE IN METERS: 1:100		pitt&sherry				TYPICAL CROSS SECTIONS - DRG 4		A1109.001						REVISION 0	



AUSTRALIA PACIFIC AIRPORTS PTY LTD
 ID - 3308956
 TITLE - 165896/01
 1A HUDSON FISH DRIVE
 WESTERN JUNCTION TAS 7212

STEVEN LEIGH EDWARDS
 CRAIG WILLIAM SUTER
 ID - 2697489
 TITLE - 146837/2
 2 HUDSON FISH DRIVE
 WESTERN JUNCTION TAS 7212



LEGEND

SEAL AREA

WORKING

BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE CHECKED ON SITE. ALL SERVICES ARE SHOWN IN GREEN UNLESS OTHERWISE SHOWN.

SCALES

1:500 (A3)

SCALE IN METRES - 1:500

No.	Amendment Description	D.C.	Date
0	ISSUE FOR CONSTRUCTION		
	Amendment Description	Initials	Date

DESIGNED L. ALLEN
REVIEWED D. COE

pittsherry
 Tasmanian Government

Department of State Growth

EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS

GENERAL ARRANGEMENT - DRG 1

CONTRACT No.	3298	DRAWING	HE19503-CT101	PRINTED DATE	23-Sep-20, 12:20 PM	SHEET No.	1101
REGISTRATION NUMBER	A1109.001					REVISION	0

AMENDED

AMENDED



STEVEN LEIGH EDWARDS
CRAG WILLIAM STYER
ID - 2897489
TITLE - 1665312
2 HUDSON FISH DRIVE
WESTERN JUNCTION TAS 7212

EXISTING TREES TO BE REMOVED
POINT OF NEED AT CH 5322 (M20)
INSTALL T1.3 MASH APPROVED GREAT TERMINAL ON APPROACH
CONSTRUCT VEHICLE CROSSOVER BETWEEN CH 5294 AND CH 5303.4 (M20)
CONSTRUCT BOX CULVERT REFER SHEET 1241 FOR DETAILS

EVANDALE EXISTING PROPERTY BOUNDARY

INSTALL T1.3 MASH APPROVED FLEXIBLE WEABAM BARRIER

CONSTRUCT TSWATER MAINTENANCE ACCESS
EXISTING SEWER PUMP STATION

INSTALL TRAILING TERMINAL TERMINATING AT CH 5347 (M20)
CONSTRUCT VEHICLE CROSSOVER BETWEEN CH 5346.4 AND CH 5359.4 (M20)
WESTERN JUNCTION TAS 7212

FAWKNER PTY. LTD.
ID - 7807828
TITLE - 2185941
11 BIRAL RD
WESTERN JUNCTION TAS 7212

EXISTING TREES TO BE REMOVED
NEW PROPERTY BOUNDARY

LAUNCESTON

LAUNCESTON

LAUNCESTON

EVANDALE RD

DESIGN LINE M20

EXISTING PROPERTY BOUNDARY

MATCH TO EXISTING ACCESSSES

INSTALL FLEXIBLE SAFETY BARRIER IN MEDIAN

BATTER TO INTERFACE TO EXISTING TABLE DRAIN

MATCH EXISTING ACCESS

BATTER TO INTERFACE TO EXISTING TABLE DRAIN

BATTER TO INTERFACE TO EXISTING TABLE DRAIN

CONSTRUCT SURFACE DRAIN FROM TABLE DRAIN TO OPEN DRAIN
CONSTRUCT OPEN DRAIN REFER DESIGN LINE M20
CONSTRUCT 6M WIDE ACCESS TRACK REFER DESIGN LINE M20

ALPHA PTY LTD
ID - 725813
TITLE - 917941
139 EVANDALE RD
WESTERN JUNCTION TAS 7212

ALPHA PTY LTD
ID - 725813
TITLE - 917942
139 EVANDALE RD
WESTERN JUNCTION TAS 7212

OPEN DRAIN, REFER DESIGN LINE M20
EXISTING OPEN DRAIN TO BE CLEARED OF DEBRIS FROM MATCH IN TO EXISTING ACCESS TRACK, REGRADE IF REQUIRED TO ENSURE FLOW

ALPHA PTY LTD
ID - 335221
TITLE - 1689402
21 RICHARD ST
WESTERN JUNCTION TAS 7212

LEGEND

SEAL AREA

JOINS INSET

SCALE

1:500 (A3)



No.	ISSUE FOR CONSTRUCTION	Amendment Description	D.C.	Initials	Date
0	ISSUE FOR CONSTRUCTION				23/09/2020

CAUTION: This sheet may be prepared using colour and may be incomplete if copied.

DESIGNED BY L. ALLEN
REVIEWED BY D. COE

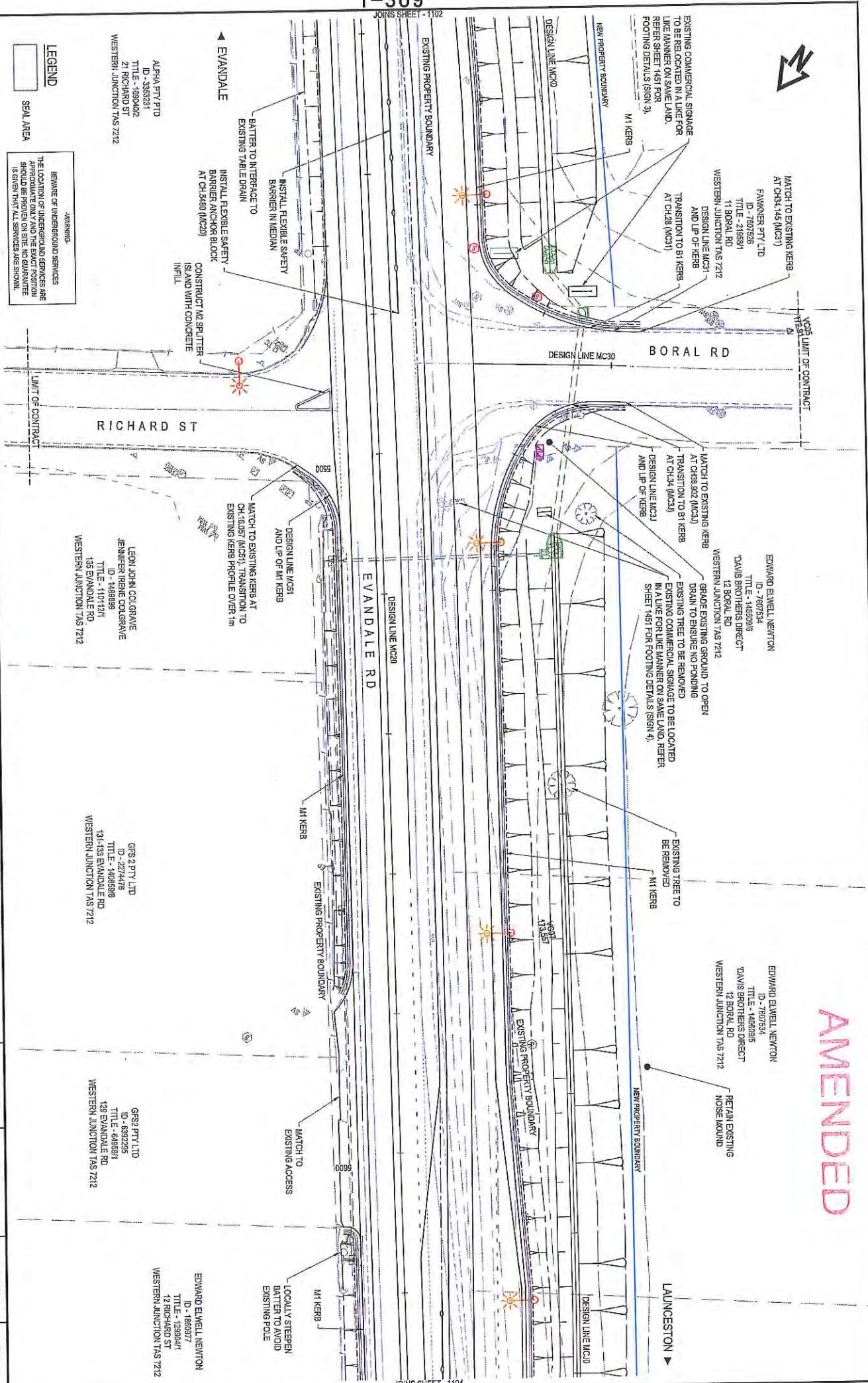
Department of State Growth
EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS
GENERAL ARRANGEMENT - DRG 2

CONTRACT No. 3288
DRAWING No. HB19003-C1102
PRINTED DATE 23-Sep-20, 12:21 PM
SHEET No. 1102
REGISTRATION NUMBER A1109.001
REVISION 0

WARNING:
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION IS GIVEN THAT ALL SERVICES ARE SHOWN

JOINS SHEET - 1101

JOINS SHEET - 1103



LEGEND

SEAL AREA

WARNING: BEWARE OF UNDERGROUND SERVICES. THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN.

SCALES

1:500 (A3)

SCALE IN METRES - 1:500

Height datum: A.M.D.

DESIGNED L. ALLEN

REVIEWED D. COE

Department of State Growth

EVANDALE MAIN ROAD (A1109)
LAUNGESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
ROADWORKS

GENERAL ARRANGEMENT - DRG 3

CONTRACT NO. 2288

DRAWINGS HB19593-4-1103

PRINTED DATE 23-Sep-20, 12:21 PM

SHEET No. 1103

REVISION 0

ALPHA PTY LTD
ID - 3358231
TITLE - 1690402
21 RICHARD ST
WESTERN JUNCTION TAS 7212

EVANDALE

INSTALL FLEXIBLE SAFETY BARRIER IN MEDIAN AT CH 5140 (MC20)

CONSTRUCT M2 SPLITTER ISLAND WITH CONCRETE INFILL

BATTER TO INTERFACE TO EXISTING TABLE DRAIN

MATCH TO EXISTING KERB AT CH 1637 (MC31), TRANSITION TO EXISTING KERB PROFILE OVER 1m

DESIGN LINE MC31 AND LIP OF M1 KERB

LEON JOHN COLGRAVE
JENNIFER REBE COLGRAVE
TITLE - 1488998
T/E - 1101924
135 EVANDALE RD
WESTERN JUNCTION TAS 7212

GRS 2 PTY LTD
ID - 2774478
TITLE - 1406898
134-133 EVANDALE RD
WESTERN JUNCTION TAS 7212

EDWARD ELWELL NEWTON
ID - 1669977
TITLE - 1269641
12 RICHARD ST
WESTERN JUNCTION TAS 7212

MATCH TO EXISTING KERB AT CH 41, 45 (MC31)

FAWKNER PTY LTD
ID - 780728
TITLE - 216594
11 BORAL RD
WESTERN JUNCTION TAS 7212

MATCH TO EXISTING KERB AT CH 88, 82 (MC31)

TRANSITION TO B1 KERB AT CH 24 (MC31) AND LIP OF KERB

DESIGN LINE MC31

EDWARD ELWELL NEWTON
ID - 780734
TITLE - 1488998
DAVIS BROTHERS DIRECT
12 BORAL RD
WESTERN JUNCTION TAS 7212

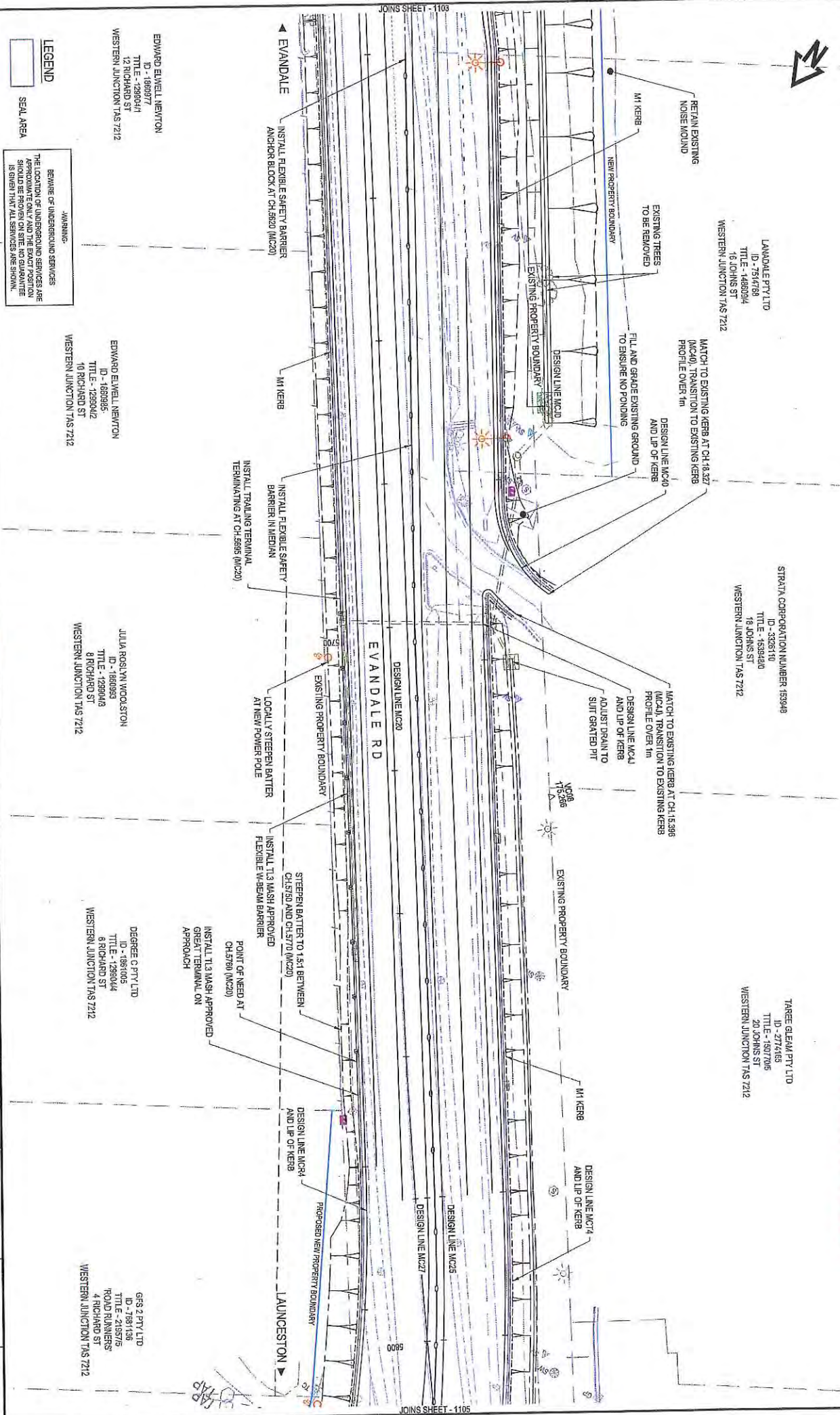
EDWARD ELWELL NEWTON
ID - 780734
TITLE - 1488998
DAVIS BROTHERS DIRECT
12 BORAL RD
WESTERN JUNCTION TAS 7212

GRS 2 PTY LTD
ID - 2774478
TITLE - 1406898
134-133 EVANDALE RD
WESTERN JUNCTION TAS 7212

AMENDED



AMENDED



LEGEND

SEAL AREA

BEFORE OF UNDERGROUND SERVICES APPROVED ONLY AND THE EXACT POSITION SHOULD BE PROVEN ON SITE AND SHOWN. IS OTHER THAN AS SHOWN.

SCALES

1:500 (A3)

SCALE IN METRES - 1:1500

DESIGNED L. ALLEN

REVIEWED D. COE

Department of State Growth

EVANDALE MAIN ROAD (A1109)

LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS

GENERAL ARRANGEMENT - DRG 4

CONTACT No. 3269

DRAWING HR19503-CT104

PRINTED DATE 23-Sep-20, 12:22 PM

REGISTRATION NUMBER A1109.001

SHEET No. 1104

REVISION 0

No.	Amendment Description	Date
0	ISSUE FOR CONSTRUCTION	23/09/2020
1	Finalise	D.C.

Concrete System: MGA 54 ZONE 55

Region: QLD

DESIGNED L. ALLEN

REVIEWED D. COE

Department of State Growth

EVANDALE MAIN ROAD (A1109)

LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS

GENERAL ARRANGEMENT - DRG 4

CONTACT No. 3269

DRAWING HR19503-CT104

PRINTED DATE 23-Sep-20, 12:22 PM

REGISTRATION NUMBER A1109.001

SHEET No. 1104

REVISION 0

EDWARD EWELL NEWTON
ID - 1669977
TITLE - 1296041
12 RICHARD ST
WESTERN JUNCTION TAS 7212

EDWARD EWELL NEWTON
ID - 1669995
TITLE - 1296042
10 RICHARD ST
WESTERN JUNCTION TAS 7212

JULIA ROGLIWA WOODSTON
ID - 1669993
TITLE - 1296043
8 RICHARD ST
WESTERN JUNCTION TAS 7212

DEGREE C PTY LTD
ID - 1961005
TITLE - 1296044
8 RICHARD ST
WESTERN JUNCTION TAS 7212

GS 2 PTY LTD
ID - 1961136
TITLE - 1296045
ROAD TOWNERS
4 RICHARD ST
WESTERN JUNCTION TAS 7212

LANDALE PTY LTD
ID - 2616788
TITLE - 1469094
16 JOHN ST
WESTERN JUNCTION TAS 7212

STRATA CORPORATION NUMBER 153948
ID - 3326110
TITLE - 1639480
18 JOHN ST
WESTERN JUNCTION TAS 7212

TAREE GLEAM PTY LTD
ID - 2774165
TITLE - 1607065
20 JOHN ST
WESTERN JUNCTION TAS 7212

JOINS SHEET - 1103

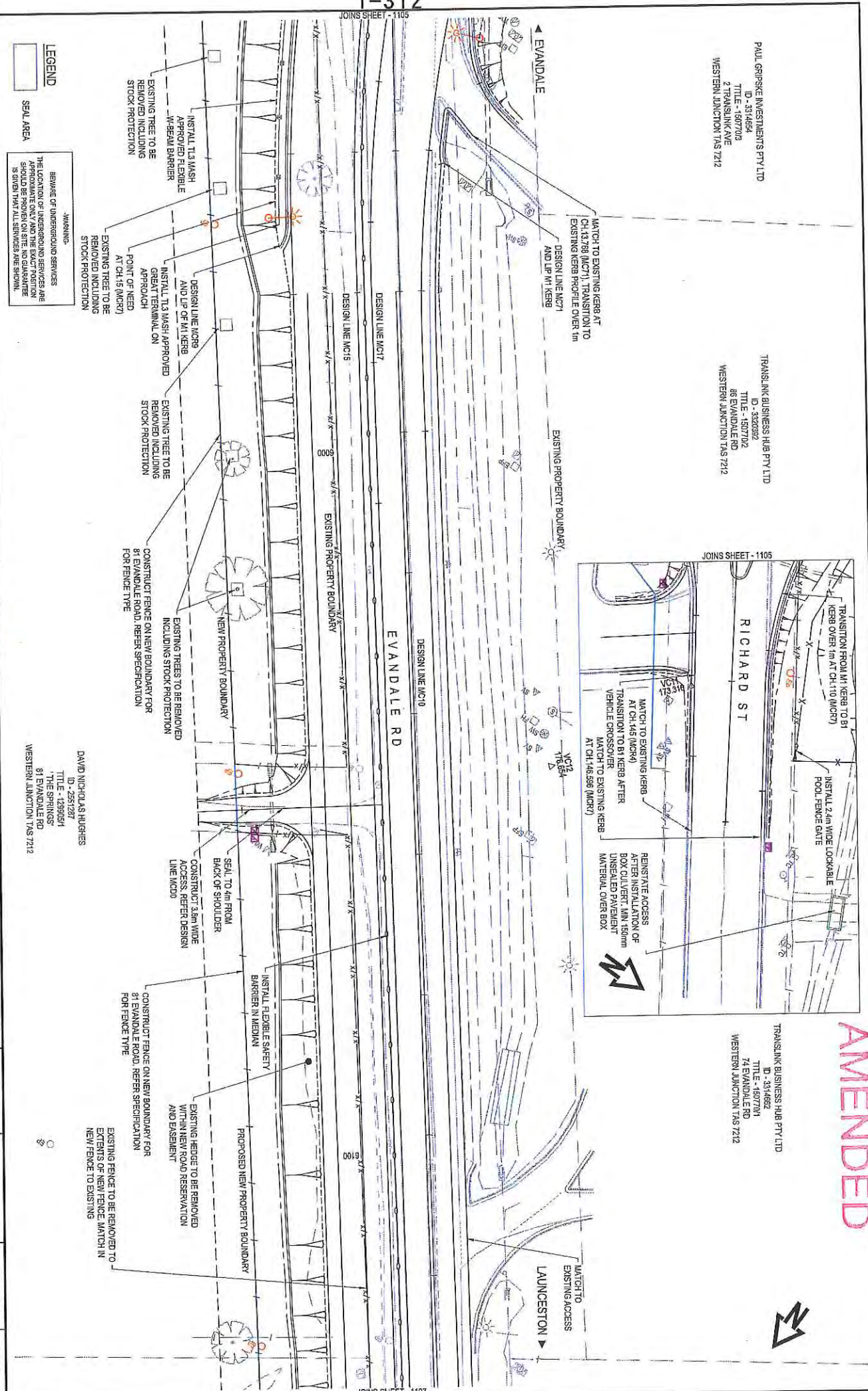
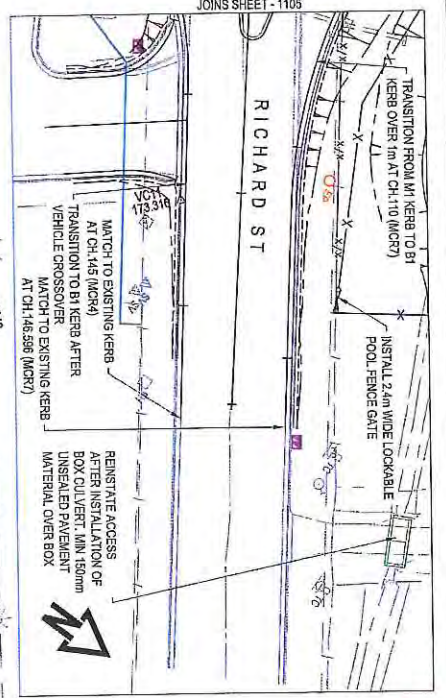
JOINS SHEET - 1105

PAUL GRPYKE INVESTMENTS PTY LTD
 ID - 3314624
 TITLE - 1607703
 2 TRANSLINK AVE
 WESTERN JUNCTION TAS 7212

TRANSLINK BUSINESS HUB PTY LTD
 ID - 3320392
 TITLE - 1507702
 88 EVANDALE RD
 WESTERN JUNCTION TAS 7212

TRANSLINK BUSINESS HUB PTY LTD
 ID - 3314622
 TITLE - 1607701
 74 EVANDALE RD
 WESTERN JUNCTION TAS 7212

AMENDED



LEGEND

SEAL AREA

WARNING: BEWARE OF UNDERGROUND SERVICES. THE LOCATION OF UNDERGROUND SERVICES ARE SHOWN ON THIS DRAWING. SERVICES SHOULD BE PROVED ON SITE. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN.

SCALES

1:500 (A3)

SCALE IN METRES - 1:500

pit&sherry

DESIGNED L. ALLEN
 REVIEWED D. COE

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNGESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 GENERAL ARRANGEMENT - DRG 6

DAVID NICHOLAS HUGHES
 ID - 2551287
 TITLE - 1239054
 THE SPRINGS
 81 EVANDALE RD
 WESTERN JUNCTION TAS 7212

CONTRACT No. 3268
 DRAWING HB19693-21106
 PRINTED DATE 23-Sep-20, 12:22 PM
 REGISTRATION NUMBER A1109.001
 SHEET No. 1106
 REVISION 0

No.	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020	Date
	Amendment Description	Initials		
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Co-ordinate System: MGA 94 ZONE 58		Project Name: A1109		

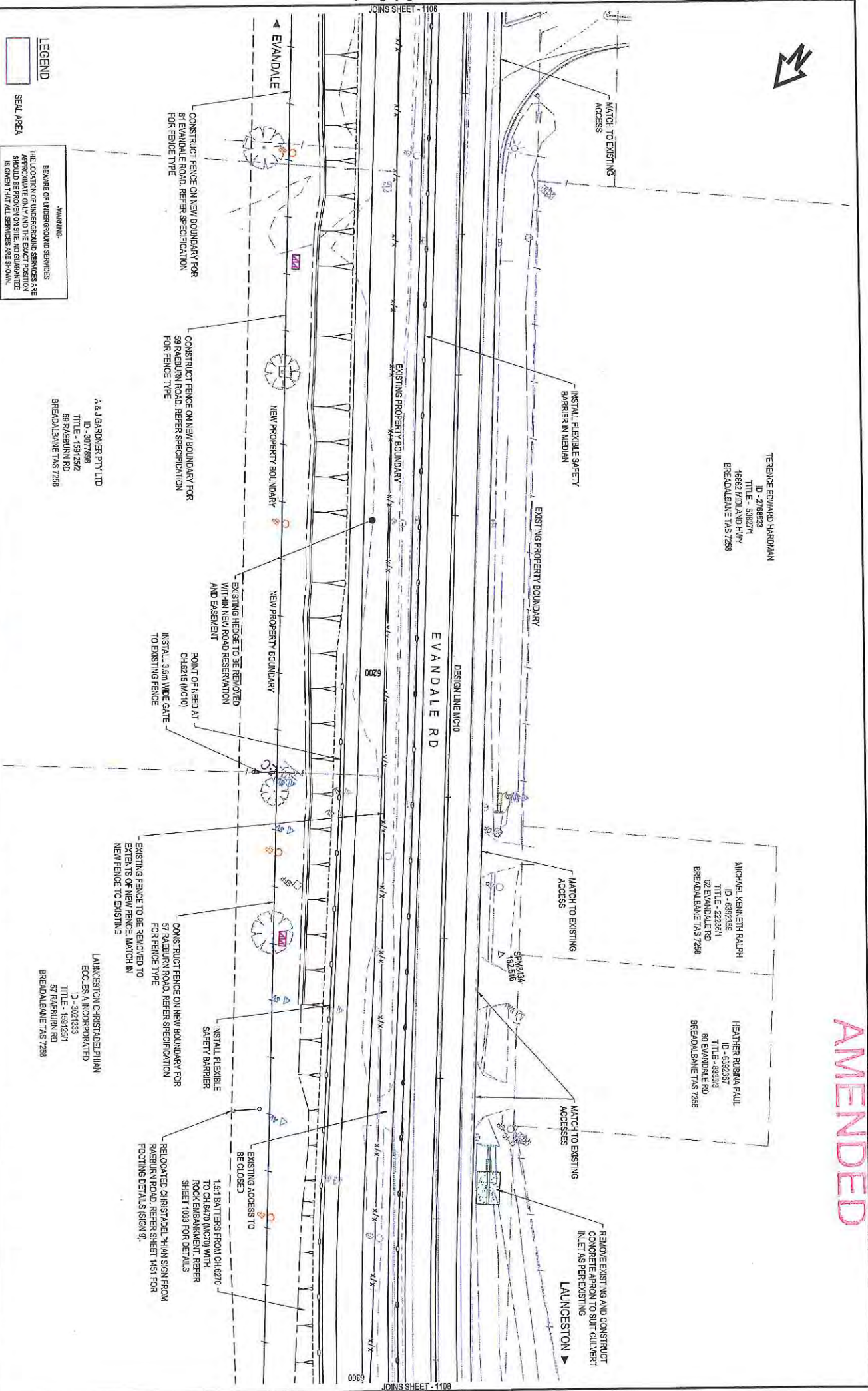


TERENCE EDWARD HARDMAN
 ID - 2768823
 TITLE - 50827/1
 16682 MIDLAND HWY
 BREADALBANE TAS 7268

MICHAEL KENNETH RALPH
 ID - 6392359
 TITLE - 22269/1
 62 EVANDALE RD
 BREADALBANE TAS 7268

HEATHER RUBINA PAUL
 ID - 6302987
 TITLE - 6338/3
 80 EVANDALE RD
 BREADALBANE TAS 7268

AMENDED



LEGEND

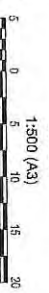
SEAL AREA

WARNING
 THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE CHECKED PRIOR TO ANY WORK BEING SHOWN. ALL SERVICES ARE SHOWN.

A & J GARDNER PTY LTD
 ID - 3077898
 TITLE - 15912/2
 59 RAEBURN RD
 BREADALBANE TAS 7268

LAUNCESTON CHRISTOPHER PHAN
 ECCLESIA INCORPORATED
 ID - 3021333
 TITLE - 169126/1
 57 RAEBURN RD
 BREADALBANE TAS 7268

SCALES
 1:500 (A3)
 SCALE IN METRES - 1:100



No.	ISSUE FOR CONSTRUCTION	Amendment Description	D.C.	Date
0	ISSUE FOR CONSTRUCTION	Amendment Description	MH/BS	22/08/2020

Co-ordinate System: MGA 94 ZONE 58 | UTM datum: AUAD
 A3 original This sheet may be prepared using colour and may be incomplete if copied

pittsherry
 Designed by L. ALLEN
 Reviewed by D. COE

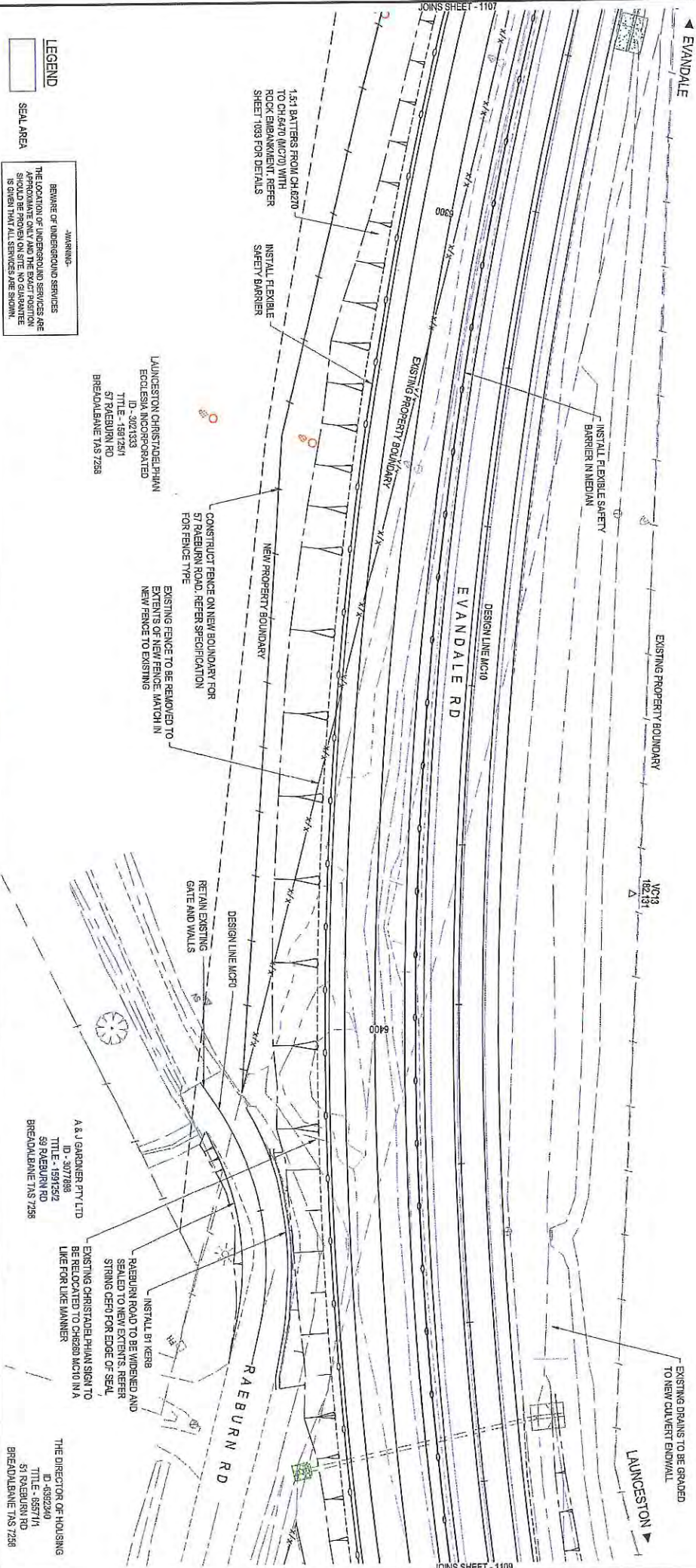
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 GENERAL ARRANGEMENT - DRG 7

CONTRACT No.	3288	DRAWING	HB19593-C1107	PRINTED DATE	23-Sep-20, 12:23 PM	SHEET No.	1107
REGISTRATION NUMBER	A1109.001	REVISION	0				



TERENCE EDWARD HARMAN
 ID - 2766523
 TITLE - 500271
 16602 MIDLAND HWY
 BREADALBAE TAS 7258

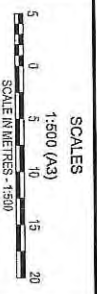
AMENDED



LEGEND

SEAL AREA

WARNING:
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE NO. OF SERVICES IS GIVEN THAT ALL SERVICES ARE SHOWN.



No.	Amendment Description	D.C.	Date
0	ISSUE FOR CONSTRUCTION		23/09/2020

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Co-ordinate System: MGA 94 ZONE 55 Height Datum: A.H.D.

pitt&sherry

DESIGNED L. ALLEN
 REVIEWED D. COE

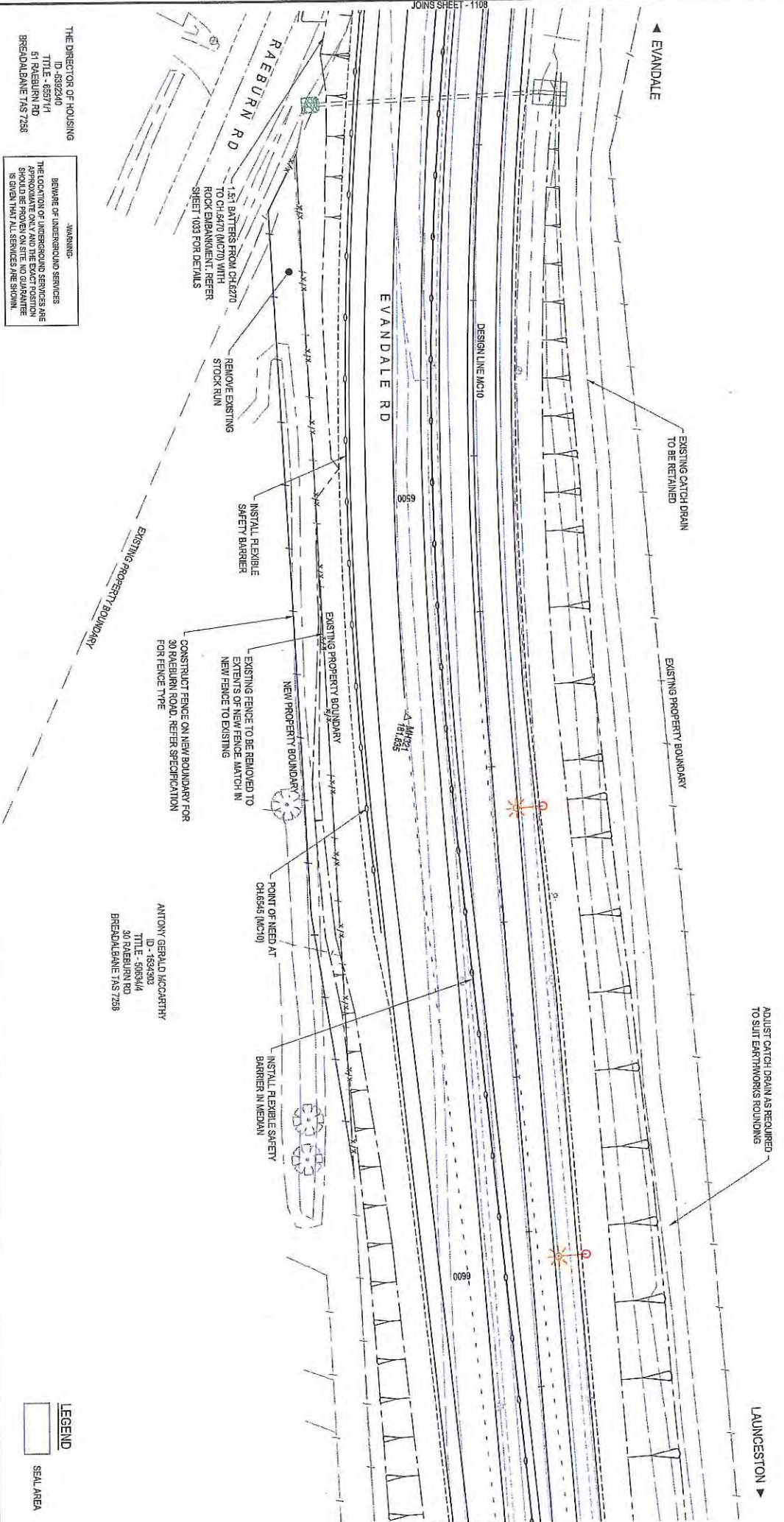
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNGESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 GENERAL ARRANGEMENT - DRG 8

CONTRACT No.	2686	DRAWING	HB19303-C1-109	PRINTED DATE	22-5-96-20, 12:23 PM	SHEET No.	1108
REGISTRATION NUMBER	A1109.001	REVISION	0				



TERENCE EDWARD HARDMAN
 ID - 2708923
 TITLE - SURVEYOR
 16802 MIDLAND HWY
 BRENDALBANE NSW 2258

AMENDED



THE DIRECTOR OF HOUSING
 ID - 6592240
 TITLE - 65971/1
 61 RAEBURN RD
 BRENDALBANE NSW 2258

WARNING:
 BEFORE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE
 APPROXIMATE ONLY AND THE EXACT POSITION
 SHOULD BE PROVEN ON SITE AND THE NUMBER
 IS GIVEN IN ALL SERVICES ARE SHOWN.



DESIGNED L. ALLEN
 REVIEWED D. COE

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 GENERAL ARRANGEMENT - DRG 9

ANTONY GERALD MCCARTHY
 ID - 6534303
 TITLE - 50654/4
 30 RAEBURN RD
 BRENDALBANE NSW 2258

LEGEND
 SEAL AREA

A3 Original		This sheet may be prepared using colour and may be incomplete if copied	
No.	Amendment Description	D.C.	Date
0	ISSUE FOR CONSTRUCTION		23/09/2020
SCALES 1:500 (A3) SCALE IN METRES: 1:1300 CO-ORDINATE SYSTEM: MGA 94 ZONE 55 HEIGHT DATUM: AHD			
pitt&cherry 		DESIGNED L. ALLEN REVIEWED D. COE	
Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS GENERAL ARRANGEMENT - DRG 9		CONTRACT No. 3288 DRAWING HB19033-CT109 PRINTED DATE 23-Sep-20, 12:23 PM REGISTRATION NUMBER A1109.001	
SHEET No.		1109	
REVISION		0	

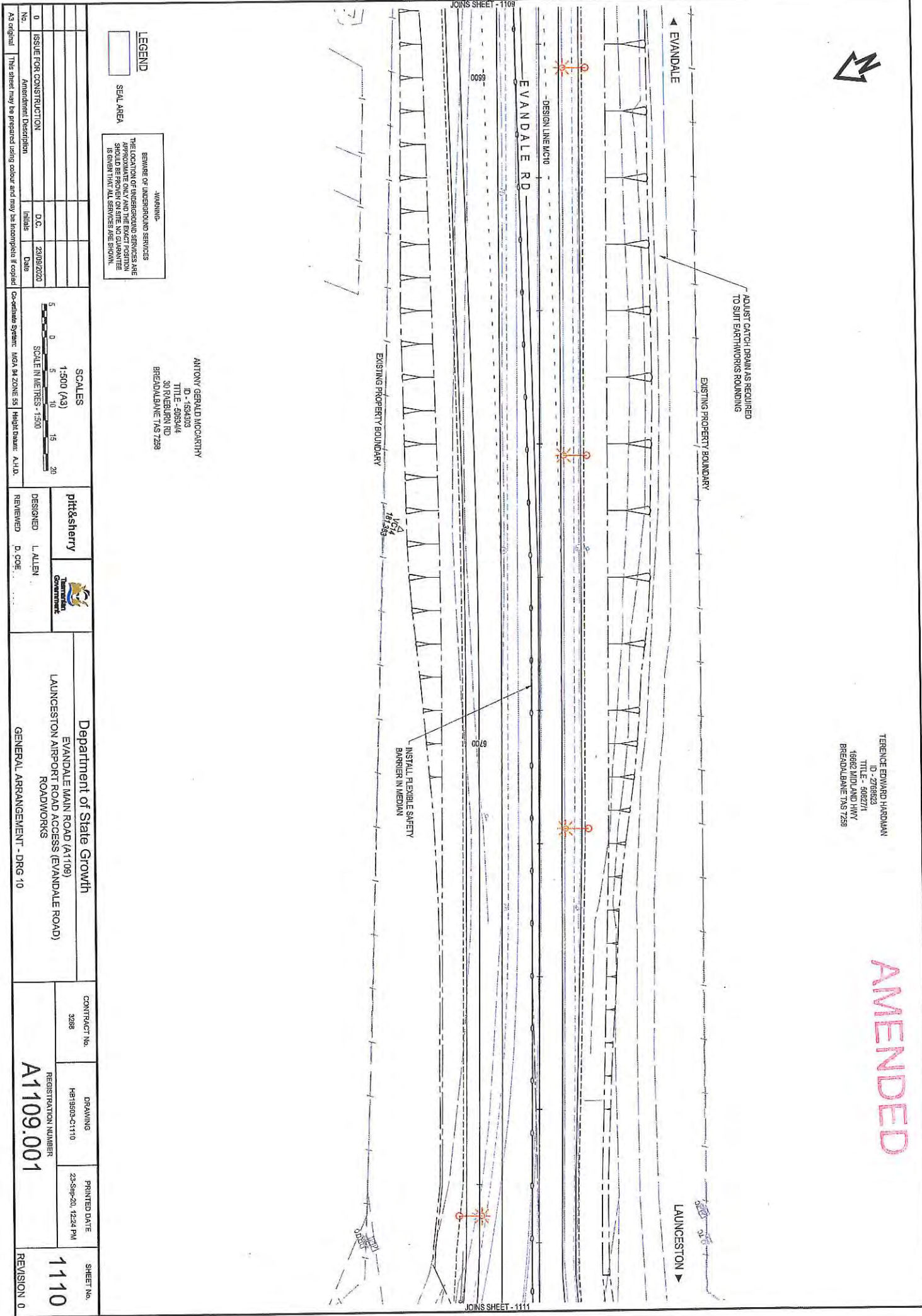
JOINS SHEET - 1108

JOINS SHEET - 1110



TERENCE EDWARD HARDMAN
 ID - 2768923
 TITLE - 508271
 16862 MIDLAND HWY
 BREDAUBANE TAS 7258

AMENDED



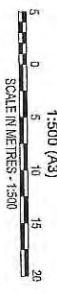
LEGEND

BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE
 SHOWN BY DASHED LINES AND SHOULD BE PROVEN ON SITE. NO GUARANTEE
 IS GIVEN THAT ALL SERVICES ARE SHOWN.

SEAL AREA

ANTONY GERALD MCCARTHY
 ID - 652403
 TITLE - 60834/4
 30 RAEBURN RD
 BREDAUBANE TAS 7258

SCALES
 1:500 (A3)
 SCALE IN METRES - 1:500



No.	Amendment Description	D.O.	Date
0	ISSUE FOR CONSTRUCTION		23/09/2020

Co-ordinate System: MGA 94 ZONE 53 | Height datum: A.H.D.

pit&sherry
 L. ALLEN
 D. COPE

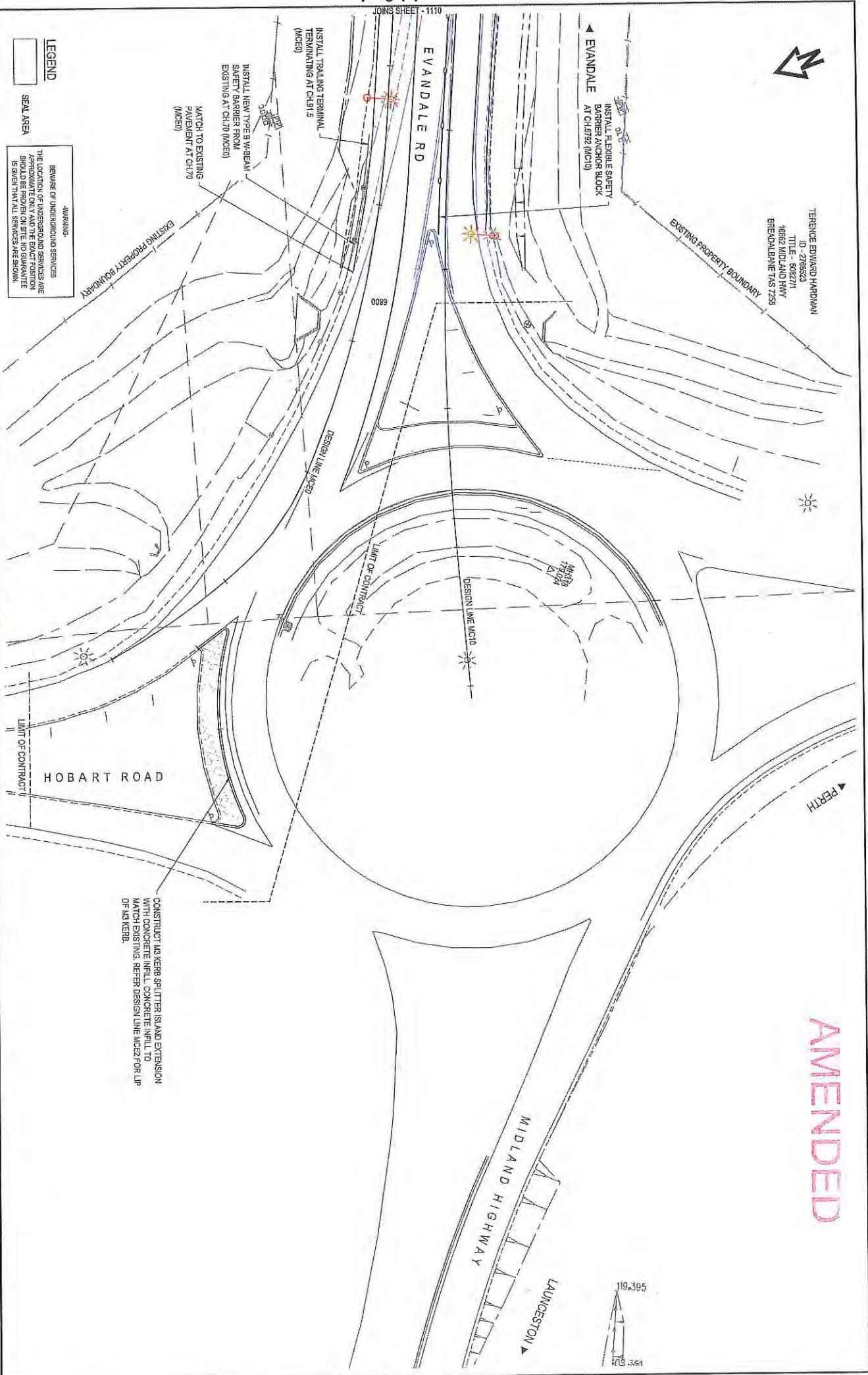
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 GENERAL ARRANGEMENT - DRG 10

CONTRACT No. 3288	DRAWING HB19509-C1110	PRINTED DATE 23-Sep-20, 12:24 PM	SHEET No. 1110
REGISTRATION NUMBER A1109.001			REVISION 0

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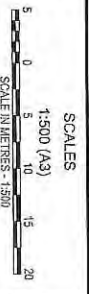


TERENCE EDWARD HARDMAN
 ID - 2798523
 TITLE - 608271
 16862 MIDLAND HWY
 BREDALE BRIVE TAS 7258



AMENDED

LEGEND
 SEAL AREA
 WARNING:
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE
 APPROXIMATE ONLY AND THE EXACT POSITION
 SHOULD BE PROVEN ON SITE. NO GUARANTEE
 IS GIVEN THAT ALL SERVICES ARE SHOWN.



No.	Amendment Description	Date
0	ISSUE FOR CONSTRUCTION	23/09/2023

Coordinate System: MGA 94 ZONE 55
 Height Datum: A.H.D.
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pittsherry
 DESIGNED: L. ALLEN
 REVIEWED: D. GGE

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 GENERAL ARRANGEMENT - DRG 11

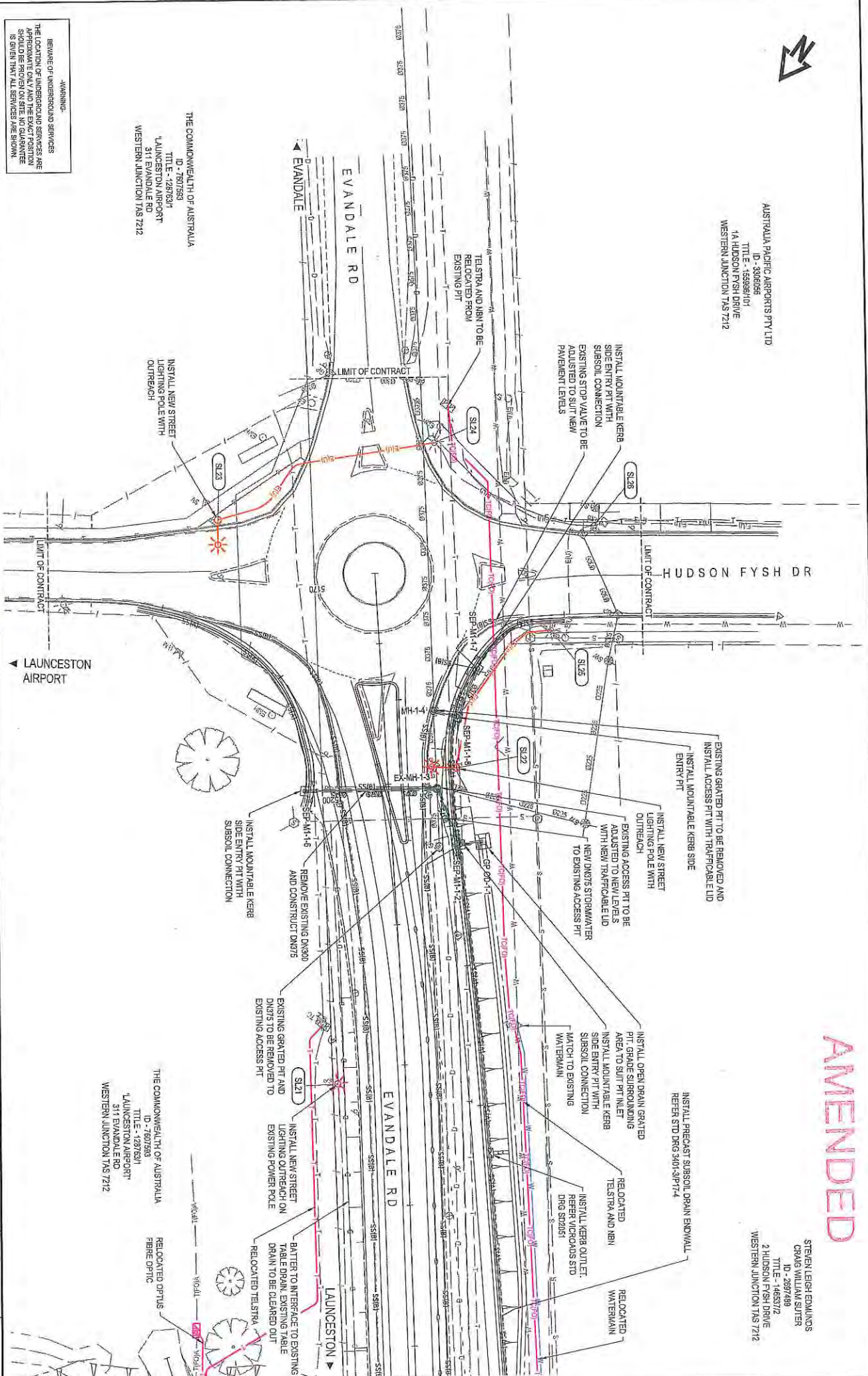
CONTRACT No. 3288	DRAWING 18/1803-C111	PRINTED DATE 23 Sep '20 12:24 PM	SHEET No. 1111
REGISTRATION NUMBER A1109.001			REVISION 0



AUSTRALIA PACIFIC AIRPORTS PTY LTD
 ID - 3306985
 TITLE - 146537/2
 14 HUDSON FISH DRIVE
 WESTERN JUNCTION TAS 7212

STEVEN LEIGH EDWARDS
 CRAIG WILLIAM SUTER
 ID - 2897489
 TITLE - 146537/2
 2 HUDSON FISH DRIVE
 WESTERN JUNCTION TAS 7212

AMENDED



THE COMMONWEALTH OF AUSTRALIA
 ID - 7607939
 TITLE - 128763/1
 LAUNCESTON AIRPORT
 317 EVANDALE RD
 WESTERN JUNCTION TAS 7212

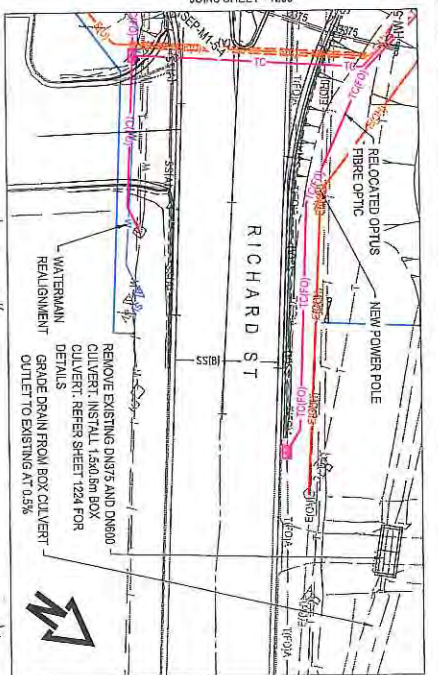
THE COMMONWEALTH OF AUSTRALIA
 ID - 7607939
 TITLE - 128763/1
 LAUNCESTON AIRPORT
 317 EVANDALE RD
 WESTERN JUNCTION TAS 7212

WARNING:
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE
 APPROXIMATE ONLY AND THE EXACT POSITION
 SHOULD BE CHECKED BY THE CONTRACTOR
 BEFORE ANY SERVICES ARE SHOWN

<p>ISSUE FOR CONSTRUCTION</p> <p>Amendment Description</p> <p>D.C. 23/09/2020</p> <p>DATE</p>		<p>SCALE</p> <p>1:500 (A3)</p> <p>SCALE IN METRES - 1:500</p>		<p>DESIGNED BY</p> <p>L. ALLEN</p> <p>REVIEWED BY</p> <p>D. COE</p>	
<p>Department of State Growth</p> <p>EVANDALE MAIN ROAD (A1109)</p> <p>LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)</p> <p>ROADWORKS</p> <p>DRAINAGE AND SERVICES - DRG 1</p>		<p>CONTRACT No.</p> <p>3268</p> <p>DRAWING</p> <p>HB/9603-C1201</p> <p>PRINTED DATE</p> <p>23-Sep-20, 12:24 PM</p>		<p>SHEET No.</p> <p>1201</p> <p>REVISION 0</p>	
<p>REGISTRATION NUMBER</p> <p>A1109.001</p>		<p>Co-ordinate System: MGA 94 ZONE 55</p> <p>Head Datum: A.M.D.</p>		<p>REGISTERED</p>	

PAUL GERRIVE INVESTMENTS PTY LTD
 ID - 3374684
 TITLE - 150709
 2 TRANSLINK AVE
 WESTERN JUNCTION TAS 7212

TRANSLINK BUSINESS HUB PTY LTD
 ID - 3820382
 TITLE - 1507092
 88 EVANDALE RD
 WESTERN JUNCTION TAS 7212



AMENDED

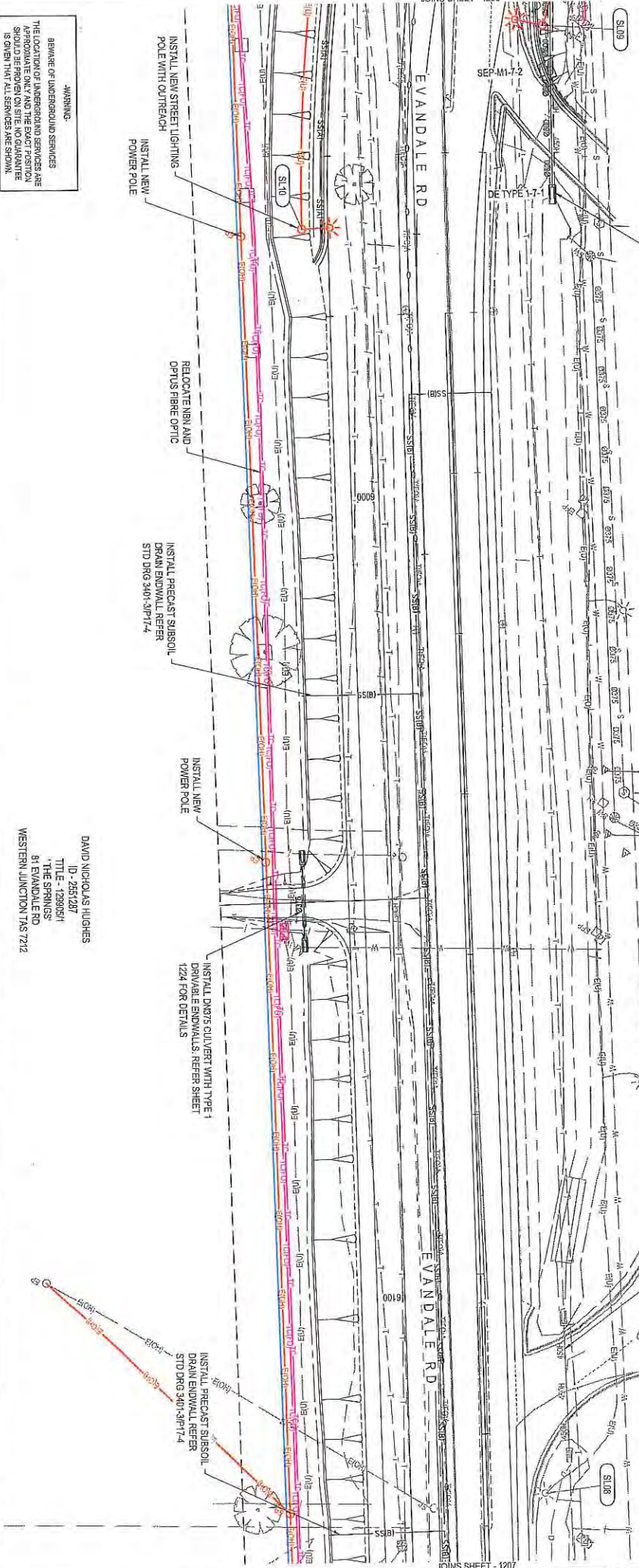
TRANSLINK BUSINESS HUB PTY LTD
 ID - 3374682
 TITLE - 1507091
 74 EVANDALE RD
 WESTERN JUNCTION TAS 7212

EVANDALE

INSTALL TYPE 1 DRIVABLE ENDWALL AND DRAG TO SIDE ENTRY FIT

EXISTING DN450 TO BE REMAINED

LAUNCESTON



WARNING:
 BEFORE UNDERGROUND SERVICES ARE RELOCATED OR LATERAL SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE PROVIDED ON SITE. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN.

DAVID NICHOLAS HUGHES
 ID - 2587287
 TITLE - 12890571
 THE SPRINGS
 81 EVANDALE RD
 WESTERN JUNCTION TAS 7212

No.	Amendment Description	Initials	Date
0	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020

SCALES	1:500 (A3)
SCALE IN METRES - 1:500	

DESIGNED	L. ALLEN
REVIEWED	D. COE

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 DRAINAGE AND SERVICES - DRG 6

CONTRACT No.	3208	DRAWING	H181803-C1206	PRINTED DATE	23-Sep-20, 12:28 PM	SHEET No.	1206
REGISTRATION NUMBER	A1109.001	REVISION	0				

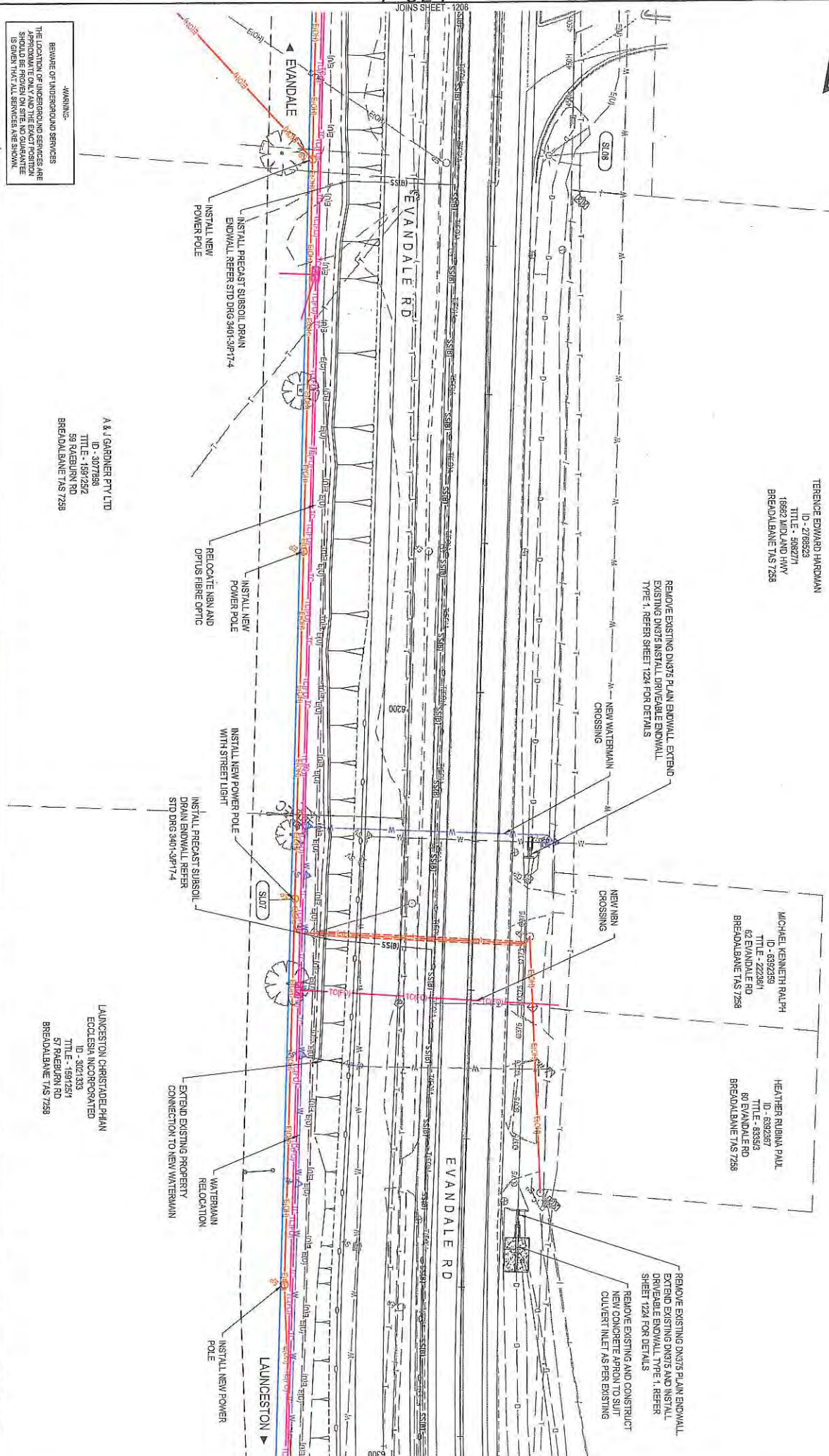


TERENCE EDWARD HARDMAN
 ID - 2709323
 TITLE - 508271
 16882 MIDLAND HWY
 BREDAUBANE TAS 7258

MICHAEL KENNETH RALPH
 ID - 6392259
 TITLE - 222861
 62 EVANDALE RD
 BREDAUBANE TAS 7258

HEATHER RUBINA PAUL
 ID - 6392267
 TITLE - 833513
 80 EVANDALE RD
 BREDAUBANE TAS 7258

AMENDED



WARNING-
 BEFORE OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE FROM OPENING AND SHOULD BE SHOWN IN THE DRAWING AS SHOWN.

A & J GARDNER PTY LTD
 ID - 3877998
 TITLE - 1591292
 59 RAEBURN RD
 BREDAUBANE TAS 7258

LAUNCESTON CHRISTOPHER PHAN
 ECCELSIA INCORPORATED
 ID - 8091383
 TITLE - 1691254
 57 RALEIGH RD
 BREDAUBANE TAS 7258



No.	Amendment Descriptions	D.C.	Date
0	ISSUE FOR CONSTRUCTION	HILLIS	23/09/2020

DESIGNED BY: L. ALLEN
 REVIEWED BY: D. COFF

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 DRAINAGE AND SERVICES - DRG 7

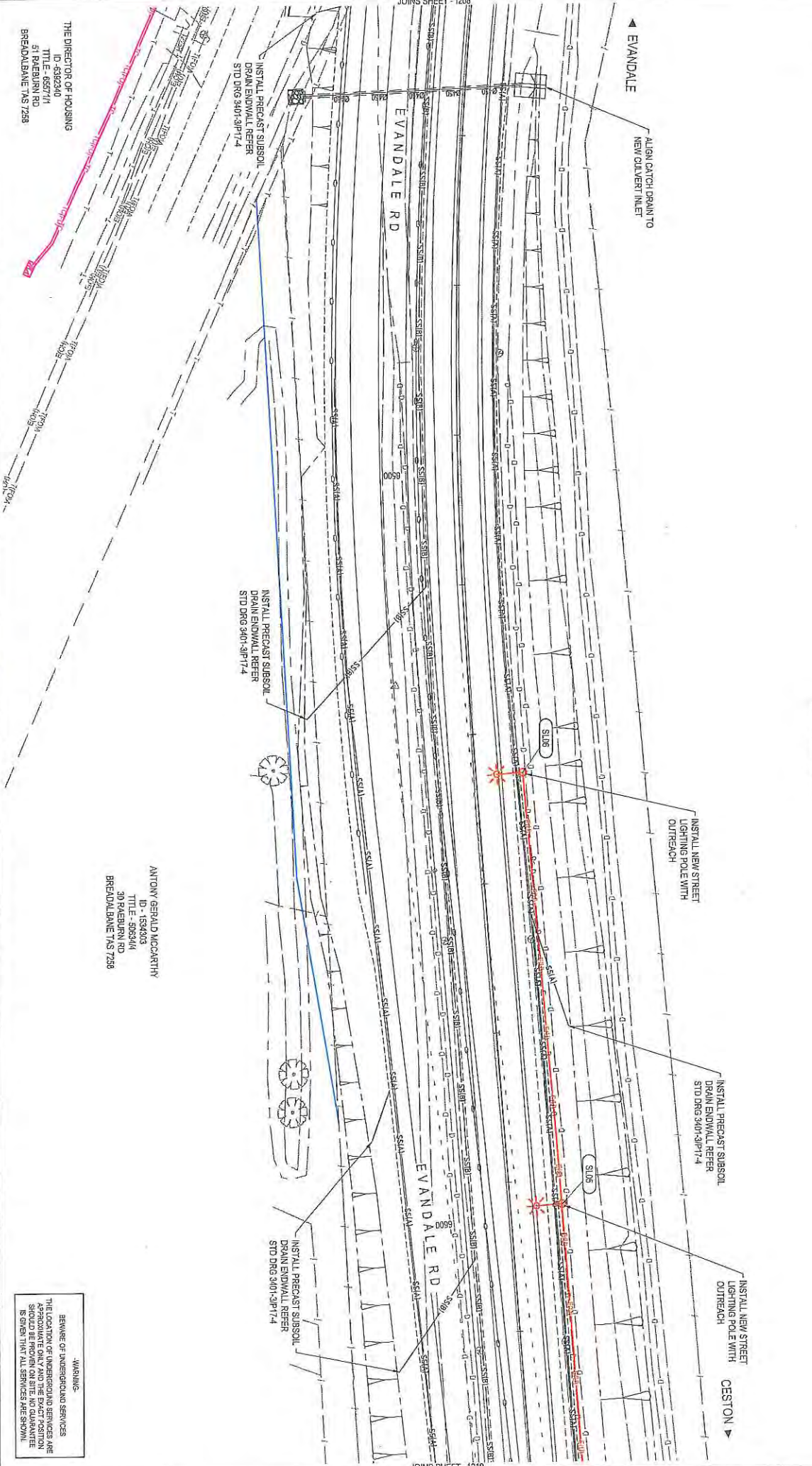
CONTRACT No. 3288	DRAWING HB19593-01207	PRINTED DATE 23-Sep-20, 12:26 PM	SHEET No. 1207
REGISTRATION NUMBER A1109.001		REVISION 0	



TERENCE EDWARD HARDMAN
 ID - 2768823
 TITLE - 508271
 18882 MIDLAND HWY
 BRENDALBANE TAS 7258

AMENDED

1-326



THE DIRECTOR OF HOUSING
 TTD - 5082940
 51 BRENDALBANE RD
 BRENDALBANE TAS 7258

ANTONY GERALD MCCARTHY
 ID - 1634203
 TITLE - 508244
 30 FAEBURN RD
 BRENDALBANE TAS 7258

WARNING:
 SERVICE OF UNDERGROUND SERVICES
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 APPROXIMATE ONLY AND THE EXACT POSITION
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No.	Amendment Description	D.C.	Date
0	ISSUE FOR CONSTRUCTION		23/09/2020

SCALES	
1:500 (A3)	
SCALE IN METRES - 1:500	
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DESIGNED BY: **pit&sherry**
 REVIEWED BY: **L. ALLEN**

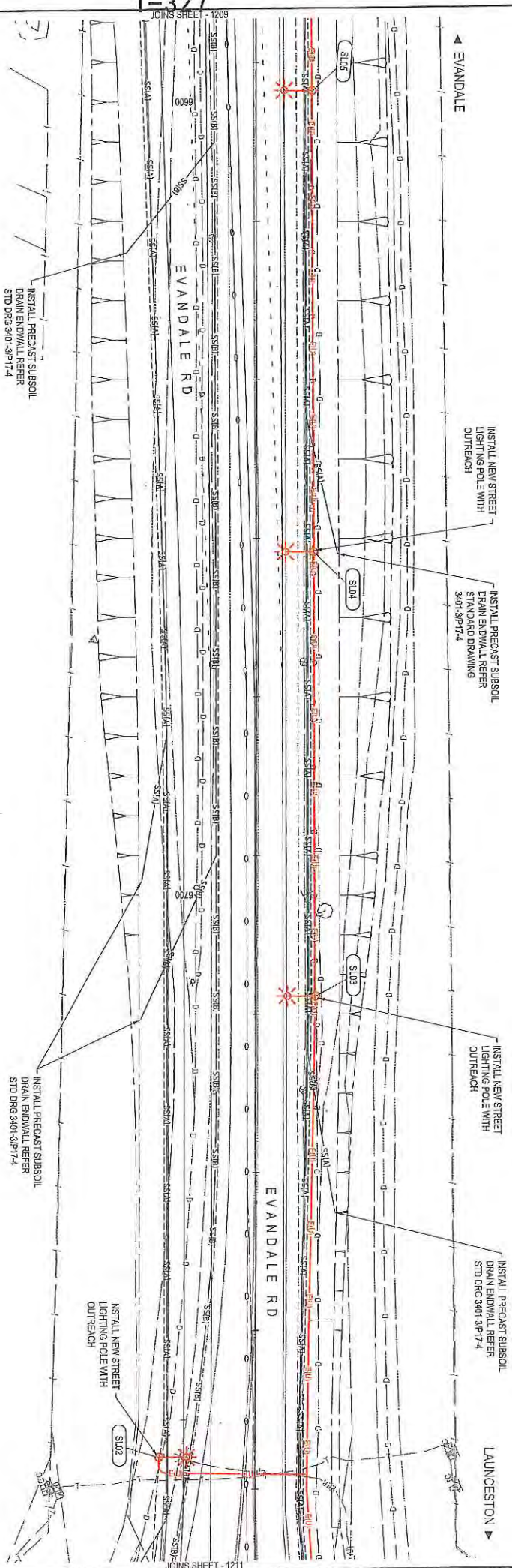
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 DRAINAGE AND SERVICES - DRG 9

CONTRACT No.	2388	DRAWING	HB1959-C1209	PRINTED DATE	23 Sep 20, 12:26 PM	SHEET No.	1209
REGISTRATION NUMBER	A1109.001	REVISION	0				



TERENCE EDWARD HARDMAN
 ID - 2786823
 TITLE - 508271
 16662 MIDLAND HWY
 BREADALBANE TAS 7258

AMENDED



WARNING
 BEFORE UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE PROVIDED ON SITE. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN.

ANTONY GERALD MCCARTHY
 ID - 634383
 TITLE - 506344
 30 RAEBURN RD
 BREADALBANE TAS 7258



No.	Amendment Description	D.C.	Initials	Date
0	ISSUE FOR CONSTRUCTION			23/09/2020

Co-ordinate System: MGA 94 ZONE 56 Height Datum: A.H.D.

DESIGNED: L. ALLEN
 REVIEWED: D. COE

pittsherry
 CONSULTANTS

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 DRAINAGE AND SERVICES - DRG 10

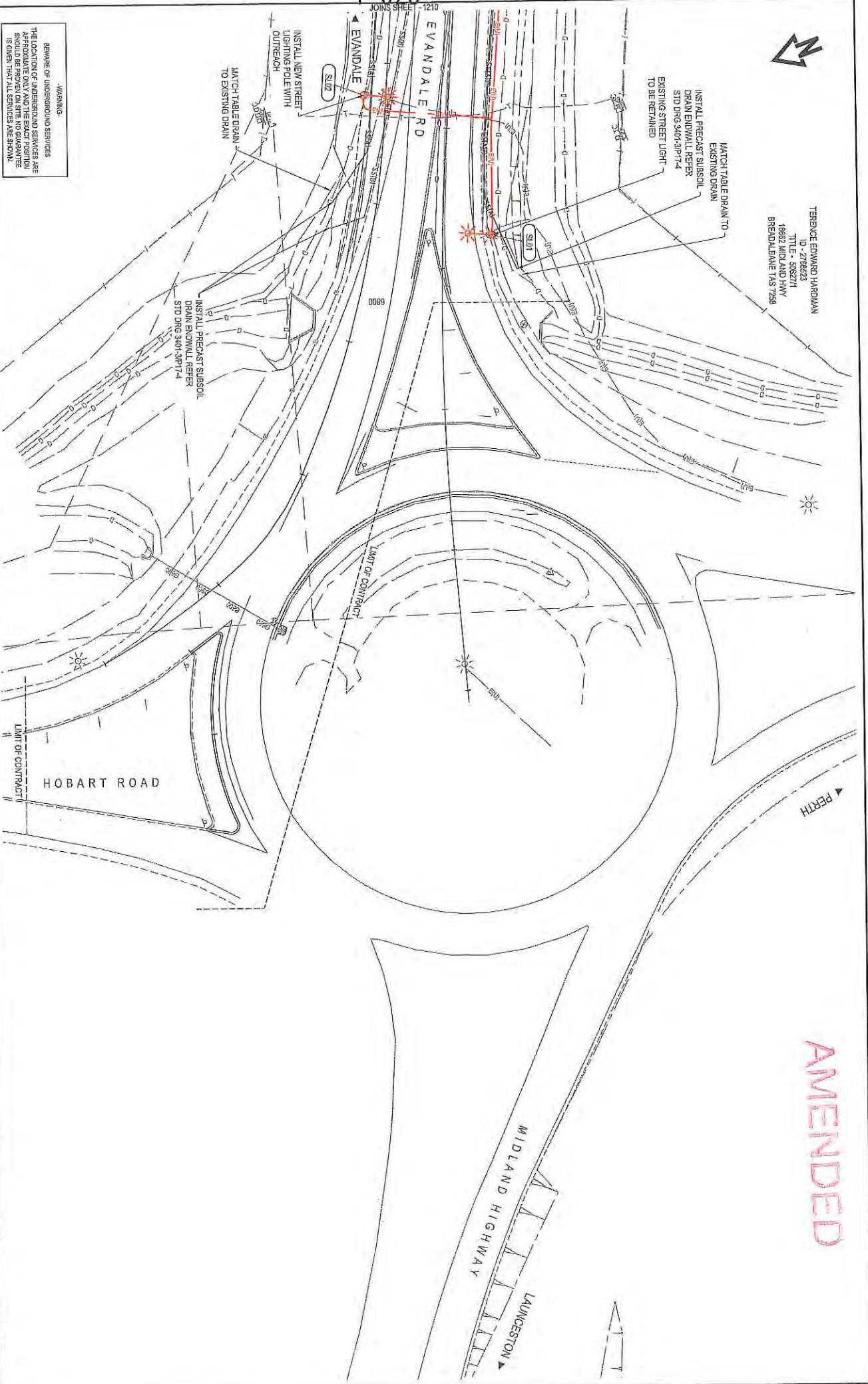
CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3288	H819593-C1210	23-Sep-20, 12:27 PM	1210
REGISTRATION NUMBER		REVISION D	
A1109.001			

1-327

1-328



TERENCE EDWARD HARMAN
 ID - 218823
 TITLE - 308274
 1882 MIDLAND HWY
 BREVOLDAINE TAS 7288



WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE
 APPROXIMATE ONLY AND THE EXACT POSITION
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No.		Amendment Description	
0	ISSUE FOR CONSTRUCTION	D.C.	23/09/2020
AS original		This sheet may be prepared using colour and may be incompatible if copied	

pit&sherry

 DESIGNER: L. ALLEN
 REVIEWER: D. COE

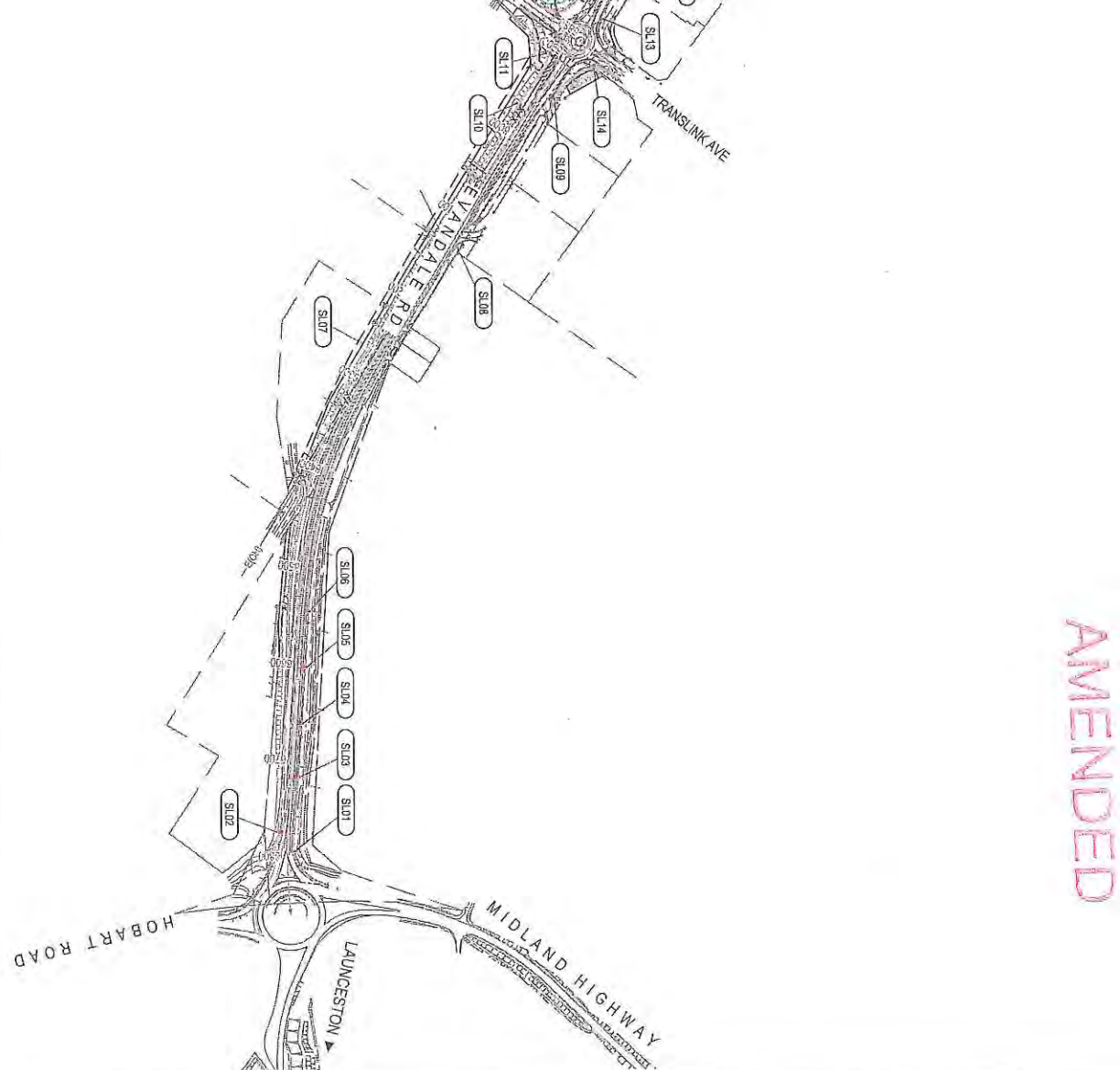
Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 DRAINAGE AND SERVICES - DRG 11

CONTRACT No.	3288	DRAWING	H819593-01211	PRINTED DATE	23-Sep-20, 12:27 PM	SHEET No.	12111
REGISTRATION NUMBER				A1109.001		REVISION 0	



LIGHT POST SETOUT POINTS			
POINT	EASTING	NORTHING	
SL01	516349.193	5402246.838	
SL02	516374.141	5402256.259	
SL03	516719.894	5402215.124	
SL04	516771.333	5402193.158	
SL05	516624.884	5402170.130	
SL06	516376.348	5402147.850	
SL07	516142.536	5401971.397	
SL08	516139.454	5401872.808	
SL09	516289.746	5401725.708	
SL10	516290.097	5401764.248	
SL11	516337.079	5401717.981	
SL12	516374.892	5401692.533	
SL13	516349.800	5401648.800	
SL14	516304.795	5401676.282	
SL15	516378.800	5401619.307	

LIGHT POST SETOUT POINTS			
POINT	EASTING	NORTHING	
SL16	516317.244	5401478.664	
SL17	516559.117	5401381.410	
SL18	516904.931	5401382.802	
SL19	516580.097	5401342.419	
SL20	516580.840	5401329.321	
SL21	516748.642	5401155.972	
SL22	516761.795	5401139.758	
SL23	516810.016	5401131.095	
SL24	516791.682	5401104.441	
SL25	516782.305	5401115.897	
SL26	516768.072	5401100.298	
SL27	516524.951	5401426.511	
SL28	516491.071	5401465.891	
SL29	516459.410	5401607.794	



AMENDED

No. 0 Amendment Description ISSUE FOR CONSTRUCTION		D.C.	23/09/2023
No. A3 original This sheet may be prepared using colour and may be incomplete if copied		Initials	Date
SCALES 1:5000 (A3) SCALE IN METRES: 1:15000		Co-ordinate System: KGA 94 ZONE 55 Height Datum: A.H.D.	
pitsherry 		DESIGNED: L. ALLEN REVIEWED: D. COE	
Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) STREET LIGHTING SETOUT PLAN			
CONTRACT No.	3288	DRAWING	HR19803-C1218
PRINTED DATE	23-Sep-20, 12:27 PM	REGISTRATION NUMBER	A1109.001
SHEET No.	1216	REVISION	0

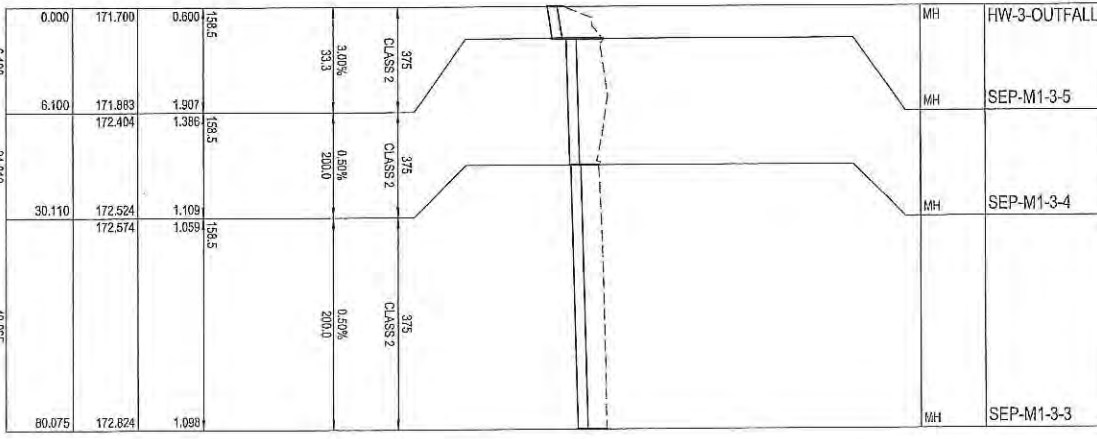
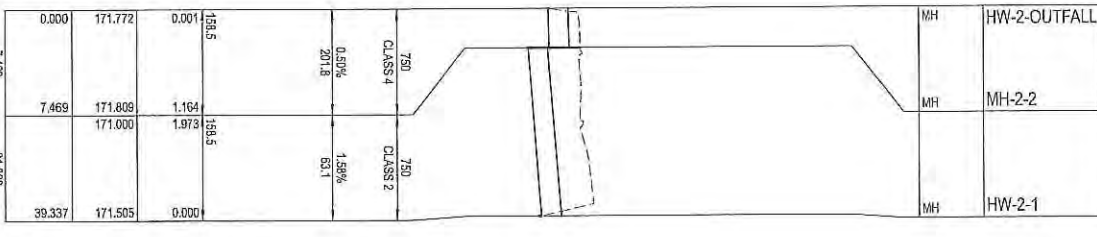
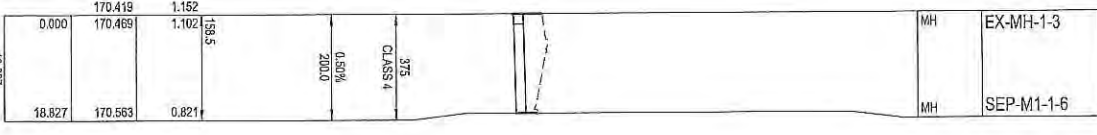
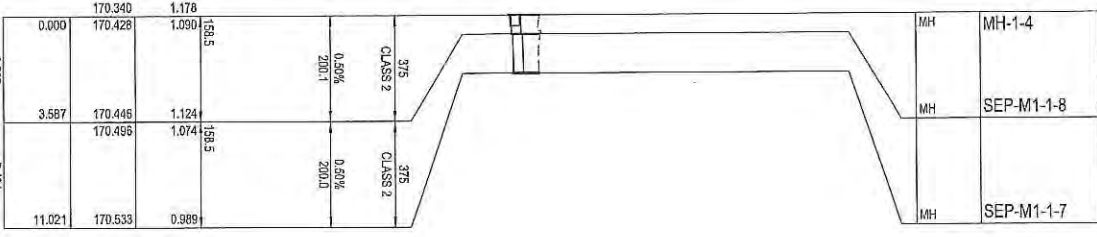
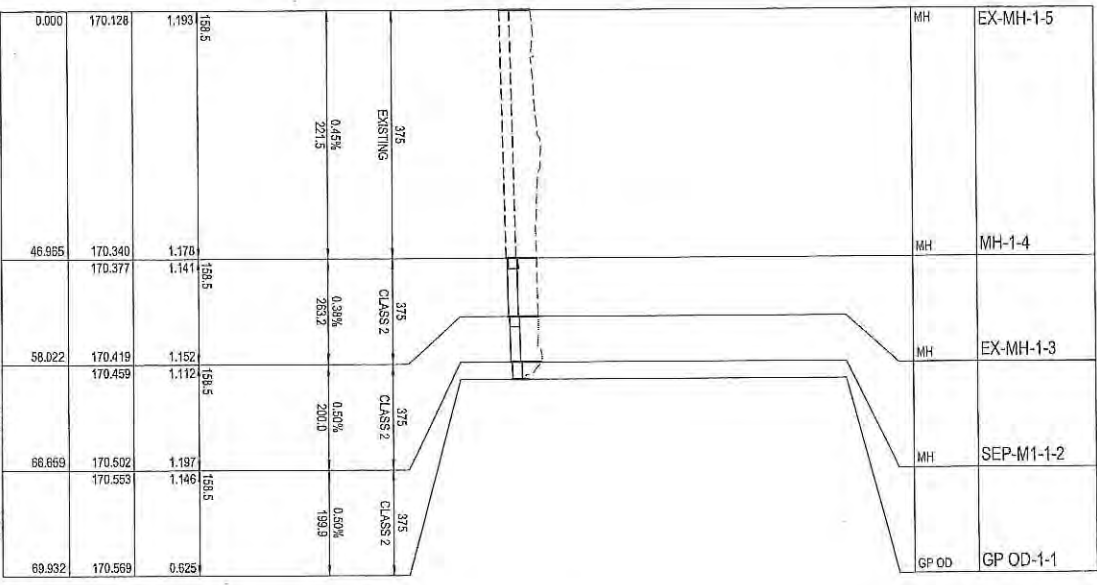
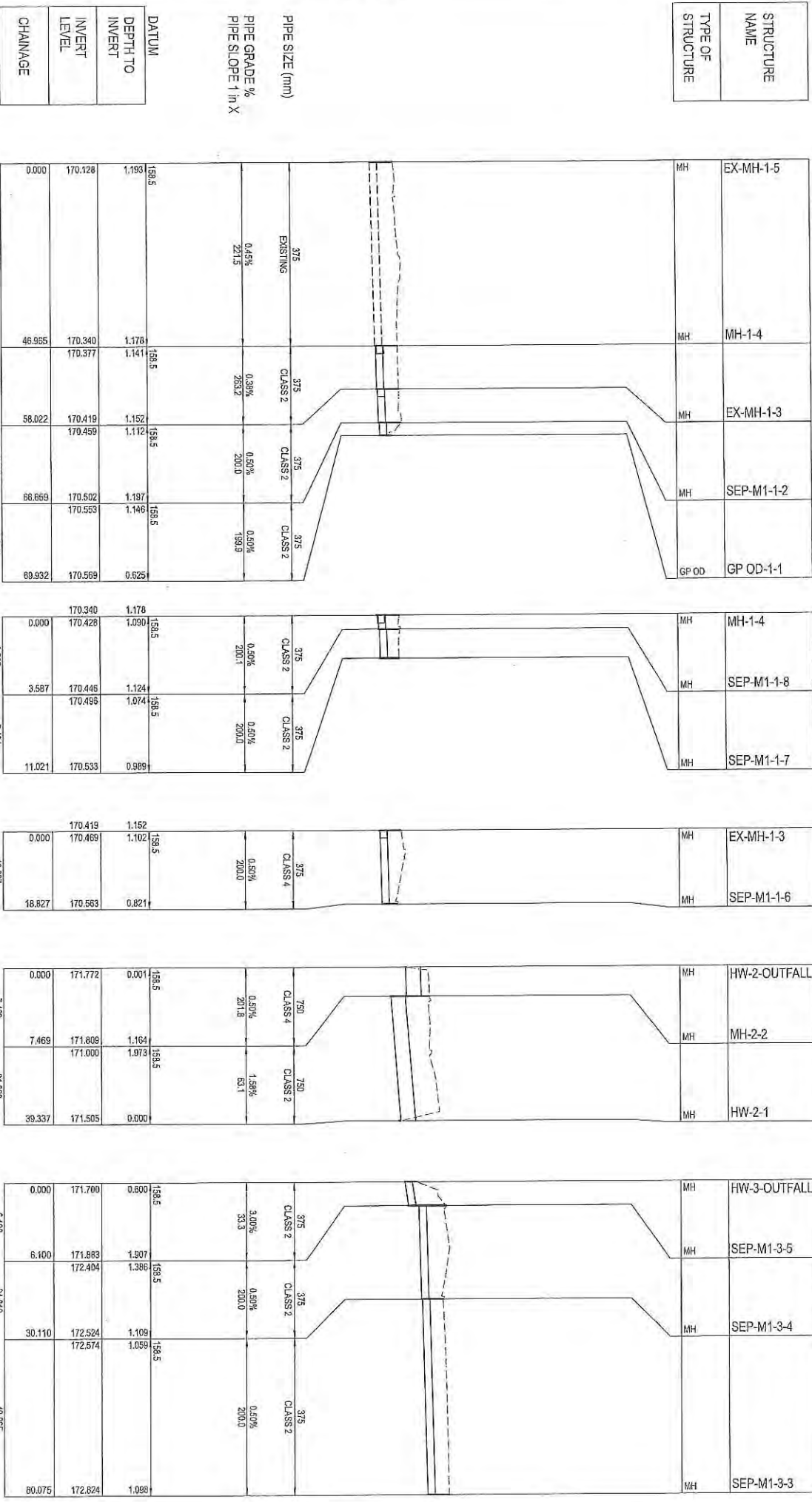
AMENDED

LOCATION/DRAWING	ASSET No.	EXISTING/NEW	COLUMN TYPE - DRG No.	LUMINAIRE TYPE	FOUNDATION - DRG No.	NOTES
1211	S101	EXISTING/RETAIN	8M POLE, 2M OUTREACH, POLE TYPE TBC	SYLVANIA S150C HPS	N/A	EXISTING LIGHT POLE TO BE RETAINED
1210/1211	S102	EXISTING/RELOCATE	8M POLE, 2M OUTREACH, POLE TYPE TBC	SYLVANIA S150C HPS	N/A	RELOCATE EXISTING POLE TO SUIT ROAD WIDENING
1210	S103	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 1800mm
1210	S104	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 1800mm
1209/1210	S105	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 1800mm
1209	S106	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 1800mm
1207	S107	EXISTING/UPGRADE	TASNETWORKS POLE, APPROX 6M MOUNTING HEIGHT, 1.5M OUTREACH	UPGRADE EXISTING SUBURBAN ECO 42CF ₁ TO 14W ALDRIDGE P-LED	N/A	NON CONTESTABLE WORKS. BY TASNETWORKS
1207	S108	EXISTING/RETAIN	8M POLE, 2M OUTREACH	SYLVANIA S150C HPS	N/A	DESIGN AREA IS NOT FULLY COMPLIANT WITH CAT-V5. DSG CONFIRM THIS IS SATISFACTORY AS AREA IS NOT DEVELOPED (VERY RARE VEHICLE USE).
1205/1206	S109	EXISTING/RELOCATE	8M POLE, 2M OUTREACH	SYLVANIA S150C HPS	N/A	RELOCATE EXISTING POLE TO SUIT ROAD WIDENING
1205/1206	S110	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1205	S111	EXISTING/RELOCATE	12M, 3M SINGLE OUTREACH, POLE TYPE TBC	SYLVANIA S250C HPS	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm REPLACE EXISTING HPS FIXTURE WITH LED
1205	S112	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1205	S113	EXISTING/RELOCATE	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm REPLACE EXISTING HPS FIXTURE WITH LED
1205	S114	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1205	S115	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1203	S116	EXISTING/UPGRADE	UPGRADE EXISTING 14W STREET LED ON TASNETWORKS POLE TO 75W LED, INSTALL 3M COBRA, EXTENSION ARM TO RAISE MOUNTING HEIGHT TO APPROX 9.5M AND 3M OUTREACH	STREET LED 14W, UPGRADE TO ALDRIDGE 75W LED D2 PE CELL	N/A	NON CONTESTABLE WORKS. BY TASNETWORKS
1203	S117	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1203	S118	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1203	S119	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1203	S120	EXISTING/UPGRADE	UPGRADE EXISTING 150W HPS STREET LED ON TASNETWORKS POLE TO 75W LED, INSTALL COBRA, EXTENSION ARM TO RAISE MOUNTING HEIGHT AND OUTREACH	SYLVANIA S150C HPS, UPGRADE TO ALDRIDGE 75W LED D2 PE CELL	N/A	NON CONTESTABLE WORKS. BY TASNETWORKS
1201	S121	NEW	MOUNT TO EXISTING TASNETWORKS POLE, INSTALL 3M COBRA, EXTENSION ARM TO RAISE MOUNTING HEIGHT TO APPROX 9.5M AND 3M OUTREACH	ALDRIDGE 75W LED D2 PE CELL	N/A	NON CONTESTABLE WORKS. BY TASNETWORKS
1201	S122	EXISTING/UPGRADE	12M, 3M SINGLE OUTREACH, POLE TYPE TBC	SYLVANIA S250C HPS, REPLACE WITH ALDRIDGE 175W LED	N/A	
1201	S123	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1201	S124	EXISTING/UPGRADE	12M, 3M SINGLE OUTREACH, POLE TYPE TBC	SYLVANIA S250C HPS, REPLACE WITH ALDRIDGE 175W LED	N/A	
1201	S125	EXISTING/UPGRADE	12M, 3M SINGLE OUTREACH, POLE TYPE TBC	SYLVANIA S250C HPS, REPLACE WITH ALDRIDGE 175W LED	N/A	
1201	S126	EXISTING/RETAIN	8M, 1.5M SINGLE OUTREACH, POLE TYPE TBC	STREET LED 14W LED	N/A	
1203	S127	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1203/1204	S128	NEW	12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	ALDRIDGE 175W LED D2 PE CELL	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm
1204	S129	EXISTING/UPGRADE	EXISTING - 8M POLE, 2M OUTREACH, POLE TYPE TBC INSTALL - 12M, 3M SINGLE OUTREACH, RIGID POLE - SF12P5030	SYLVANIA S150C HPS REPLACE WITH ALDRIDGE 175W LED	PILE - GA12732	PILE DIA: 600mm, DEPTH: 2400mm

No. 0 Amendment Description ISSUE FOR CONSTRUCTION Date 23/09/2020 The sheet may be measured using colour and may be incomplete if copied	D.C. MHSB Date	Co-ordina System: MGA 84 ZONE 55 Height Datum: AHD	SCALES N.T.S. pitksherry  DESIGNED: L. ALLEN REVIEWED: D. COPE	Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS STREET LIGHTING SCHEDULE	CONTRACT No. 3286 DRAWING H919603-C1917 PRINTED DATE 23-Sep-20, 12:27 PM REGISTRATION NUMBER A1109.001 SHEET No. 1217 REVISION 0
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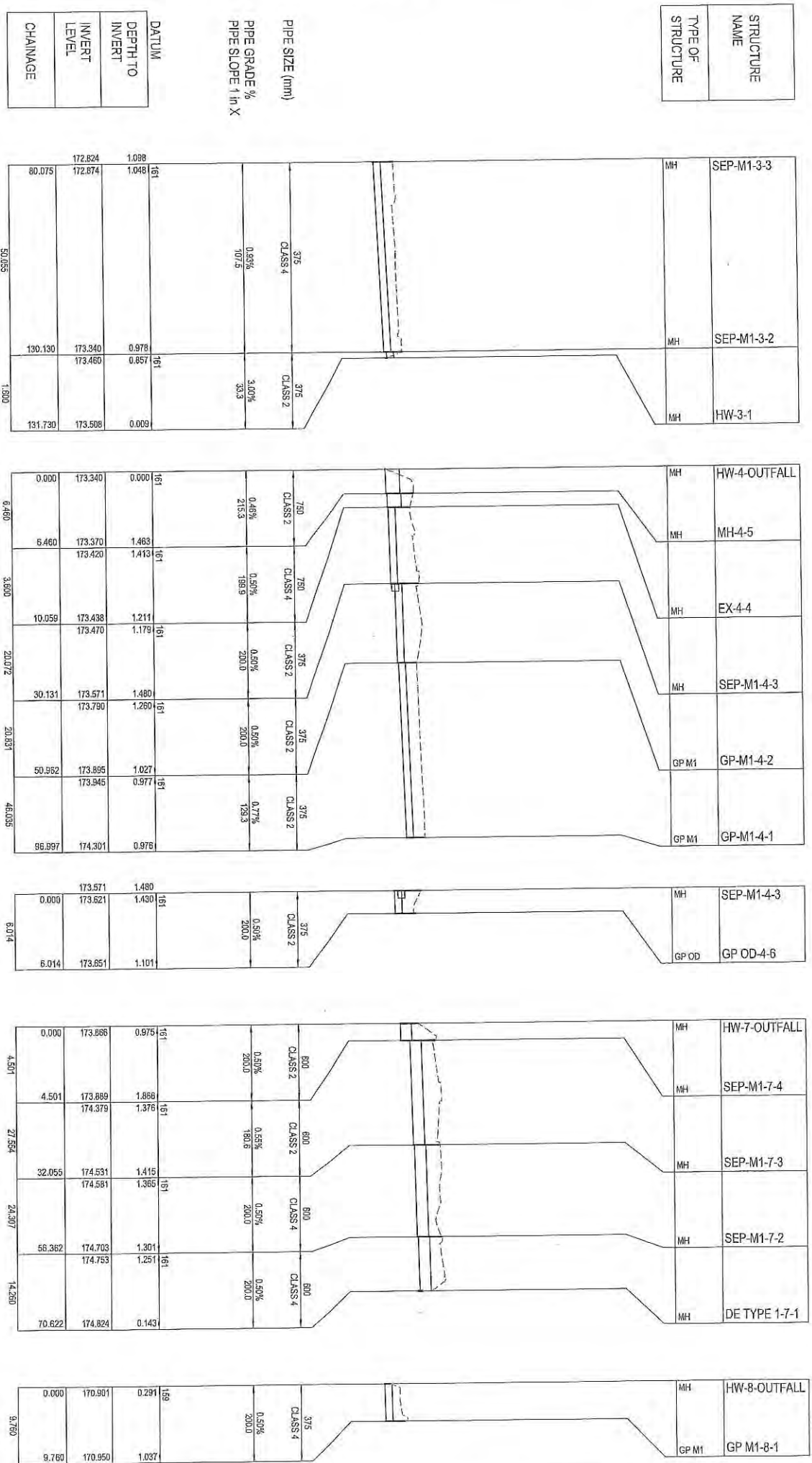
AMENDED

STRUCTURE NAME	
TYPE OF STRUCTURE	



SCALES 1:1000 (A3) SCALE IN FEET - 1:800		CONCRETE SYSTEM: MGA 54 ZONE 55 HEADSTAMP: A.H.D.	
ISSUED FOR CONSTRUCTION D.C. 23/09/2023 Initials: _____ Date: _____		DESIGNED: L. ALLEN REVIEWED: D. GEE	
Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS DRAINAGE PROFILES - SHEET 1			
CONTRACT No. 3288	DRAWING H819503-C1221	PRINTED DATE 23-Sep-20, 12:28 PM	SHEET No. 1221
REGISTRATION NUMBER A1109.001			REVISION 0

AMENDED



STRUCTURE NAME	SEP-M1-3-3
TYPE OF STRUCTURE	MH

PIPE SIZE (mm)
 PIPE GRADE %
 PIPE SLOPE 1 in X

STRUCTURE NAME	TYPE OF STRUCTURE	STATION	DATE	DESCRIPTION	DEPTH TO INVERT	INVERT LEVEL	CHANGE
SEP-M1-3-2	MH	130.130	173.340	0.978	173.460	0.857	
HW-3-1	MH	131.730	173.508	0.009			
HW-4-OUTFALL	MH	6.460	173.340	0.000	173.370	1.463	
MH-4-5	MH	6.460	173.420	1.413			
EX-4-4	MH	3.660	173.438	1.211	173.470	1.179	
SEP-M1-4-3	MH	20.072	173.571	1.480	173.790	1.260	
GP-M1-4-2	GP M1	20.631	173.895	1.027	173.945	0.977	
GP-M1-4-1	GP M1	46.035	174.301	0.976			
SEP-M1-4-3	MH	6.014	173.571	1.480	173.621	1.490	
GP OD-4-6	GP OD	6.014	173.851	1.101			
HW-7-OUTFALL	MH	4.501	173.886	0.975	173.889	1.866	
SEP-M1-7-4	MH	4.501	174.379	1.376			
SEP-M1-7-3	MH	32.055	174.531	1.415	174.581	1.365	
SEP-M1-7-2	MH	24.307	174.703	1.301	174.753	1.251	
DE TYPE 1-7-1	MH	14.260	174.824	0.143			
HW-8-OUTFALL	MH	9.760	170.901	0.291	170.950	1.037	
GP M1-8-1	GP M1	9.760	170.950	1.037			

ISSUE FOR CONSTRUCTION

No. _____

Amendment Description _____

Date _____

23/09/2020

SCALES

1:1000 (A3)

SCALE IN METERS: 1:1000

Coordinate System: MGA SA ZONE 58 | UTM Datum: AAD

DESIGNED L. ALLEN

REVIEWED D. COE

pit&shery

Engineering & Construction

Department of State Growth

EVANDALE MAIN ROAD (A1109)

LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)

ROADWORKS

DRAINAGE PROFILES - SHEET 2

CONTRACT No. 3886

REGISTRATION NUMBER A1109.001

DRAWINGS HB/9593-C1222

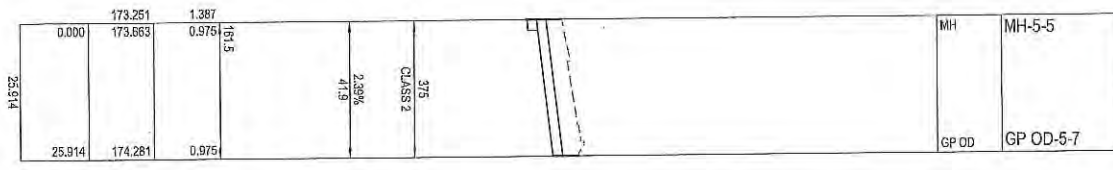
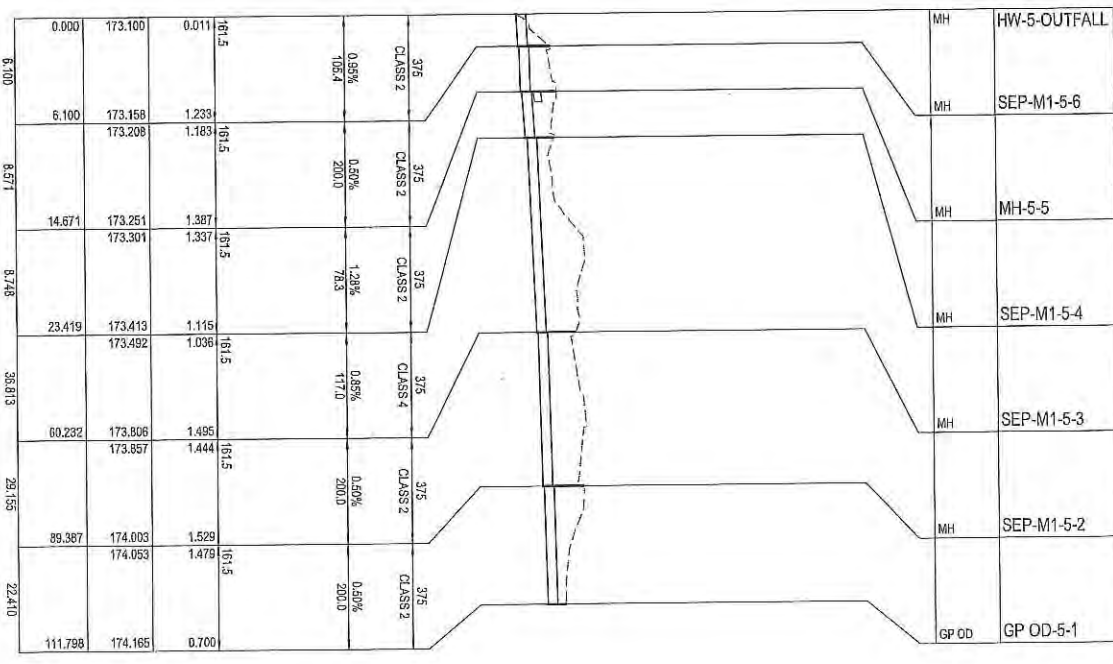
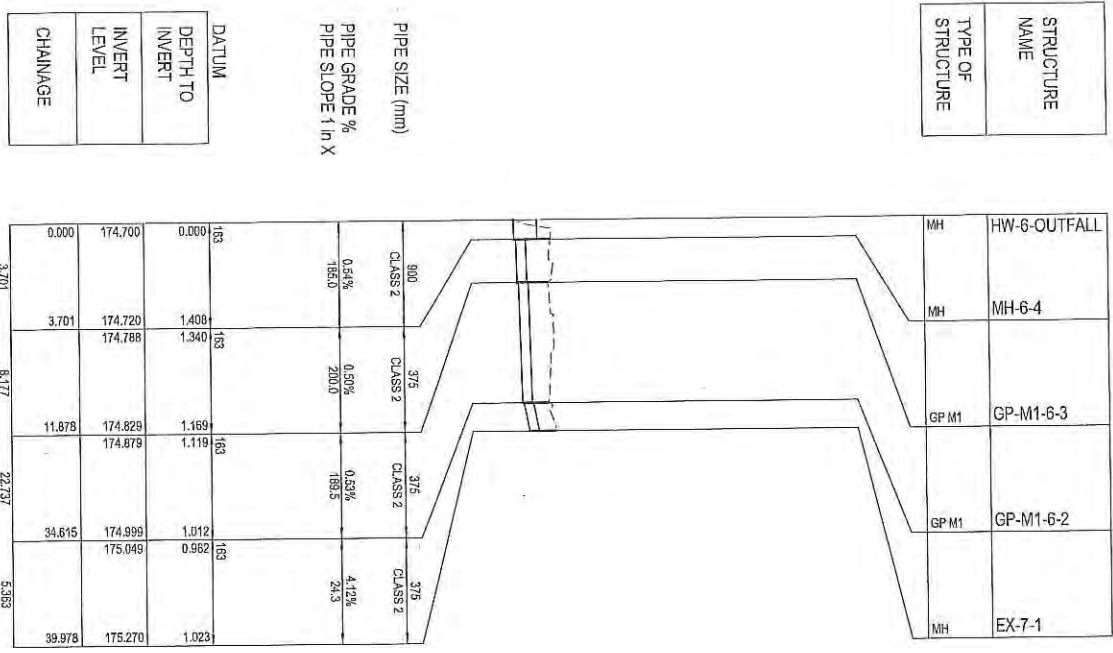
PRINTED DATE 23-Sep-20, 12:28 PM

SHEET No. 1222

REVISION 0

AMENDED

STRUCTURE NAME	
TYPE OF STRUCTURE	



PIPE SIZE (mm)	900	375	375	375
CLASS	CLASS 2	CLASS 2	CLASS 2	CLASS 2
PIPE GRADE %	0.54%	0.50%	0.53%	4.12%
PIPE SLOPE 1 in X	185.0	200.0	189.5	24.3

DATUM	163
DEPTH TO INVERT	1.400
INVERT LEVEL	174.700
CHANGE	

Station	0.000	3.701	11.878	34.615	39.978
Horizontal Distance	0.000	3.701	11.878	34.615	39.978
Vertical Curve Data					

Station	0.000	6.100	14.671	23.419	60.292	89.387	111.798
Horizontal Distance	0.000	6.100	14.671	23.419	60.292	89.387	111.798
Vertical Curve Data							

Station	0.000	25.914
Horizontal Distance	0.000	25.914
Vertical Curve Data		

ISSUE FOR CONSTRUCTION	D.C.	23/09/2020
Amendment Description	Revisions	
No.	Revisions	

SCALE	1:1000 (A3)
SCALE IN METERS	1:1000
Co-ordinate System	NGA 94 ZONE 55
Height Datum	A.H.D.

DESIGNED BY	L. ALLEN
REVIEWED BY	J. COE

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 DRAINAGE PROFILES - SHEET 3

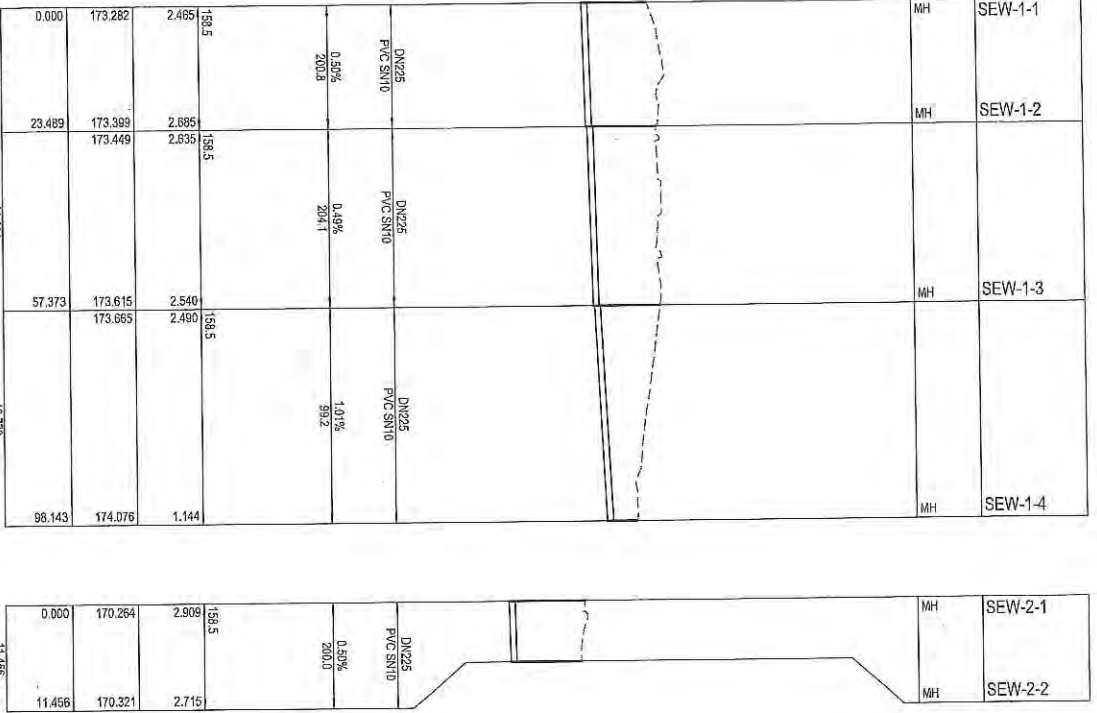
CONTRACT No.	3488
DRAWING No.	HR 1959-C1223
PRINTED DATE	23-Sep-20, 12:20 PM
REGISTRATION NUMBER	A1109.001

SHEET No.	1223
REVISION	0

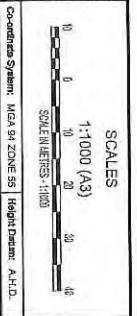
AMENDED

STRUCTURE NAME	
TYPE OF STRUCTURE	

DATE	
DEPTH TO INVERT	
INVERT LEVEL	
CHAINAGE	



No.	0	ISSUE FOR CONSTRUCTION
AD original		Amendment Description
		Initials
		Date



DESIGNED BY	L. ALLEN
REVIEWED BY	D. COE

Department of State Growth
 EVANDALE MAIN ROAD (A1109)
 LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)
 ROADWORKS
 SEWER PROFILES - SHEET 1

CONTRACT No.	3288	DRAWING	HR19503.C1226	PRINTED DATE	23-Sep-20, 12:29 PM	SHEET No.	1226
		REGISTRATION NUMBER	A1109.001			REVISION	0

AMENDED

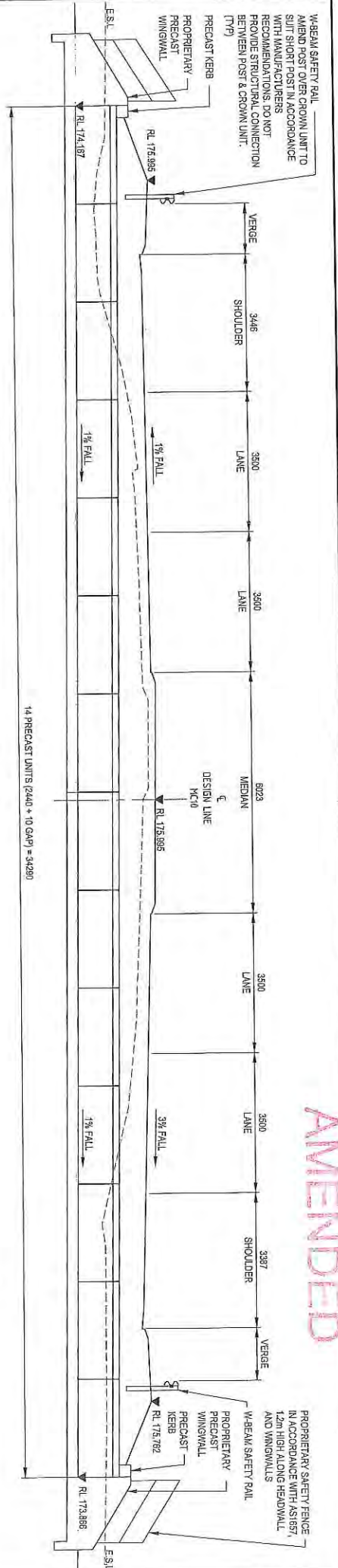


EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ACCESS (EVANDALE ROAD)
ROADWORKS

1-336

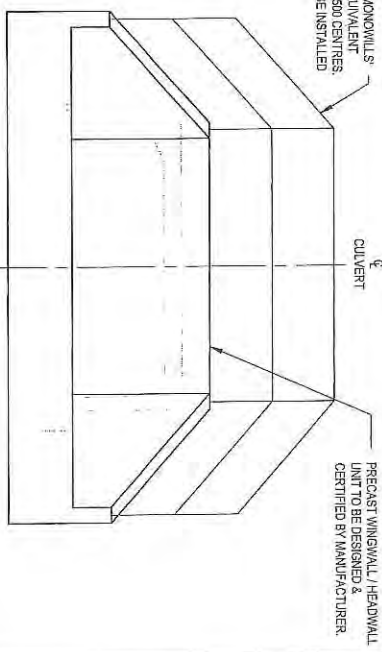
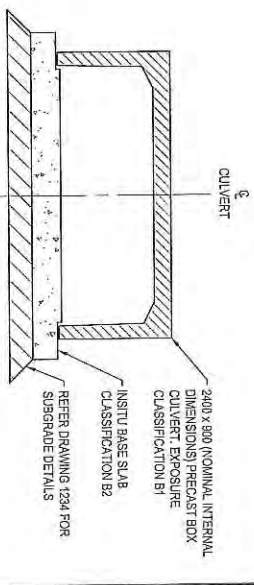
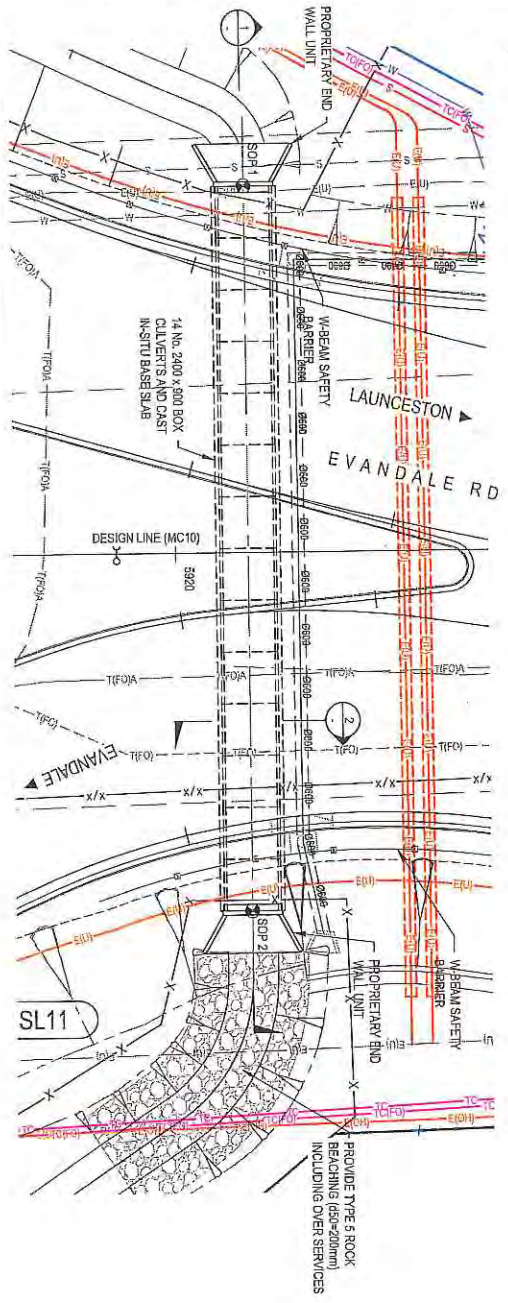
STRUCTURE 6216
FROG CULVERT AT CH. 5294 (MC10)

SCALES AS SHOWN		DESIGNED: L. ALLEN		Department of State Growth		CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
No.		D.C.	Date	LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)		3298	H315903-C1229	23-Sep-20, 12:28 PM	1229
Amendment Description		Initials		ROADWORKS		REGISTRATION NUMBER		REVISION	
0 ISS/E FOR CONSTRUCTION		23/09/2020		STRUCTURE 6216 FROG CULVERT AT CH.5294 (MC10)		A1109.001		0	
As original		This sheet may be prepared using colour and may be incomplete if colour		COVER PAGE					
Coordinate System: MGA 94 ZONE 55		Height Datum: A.H.D.		EVANDALE MAIN ROAD (A1109)					
pit&sherry				LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)					
REVIEWED: D. COPE				ROADWORKS					



AMENDED

PROPRIETARY SAFETY FENCE IN ACCORDANCE WITH AS187, 12m HIGH ALONG HEADWALL AND WINGWALLS




CULVERT SETOUT

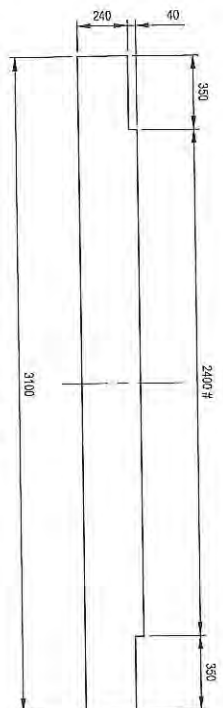
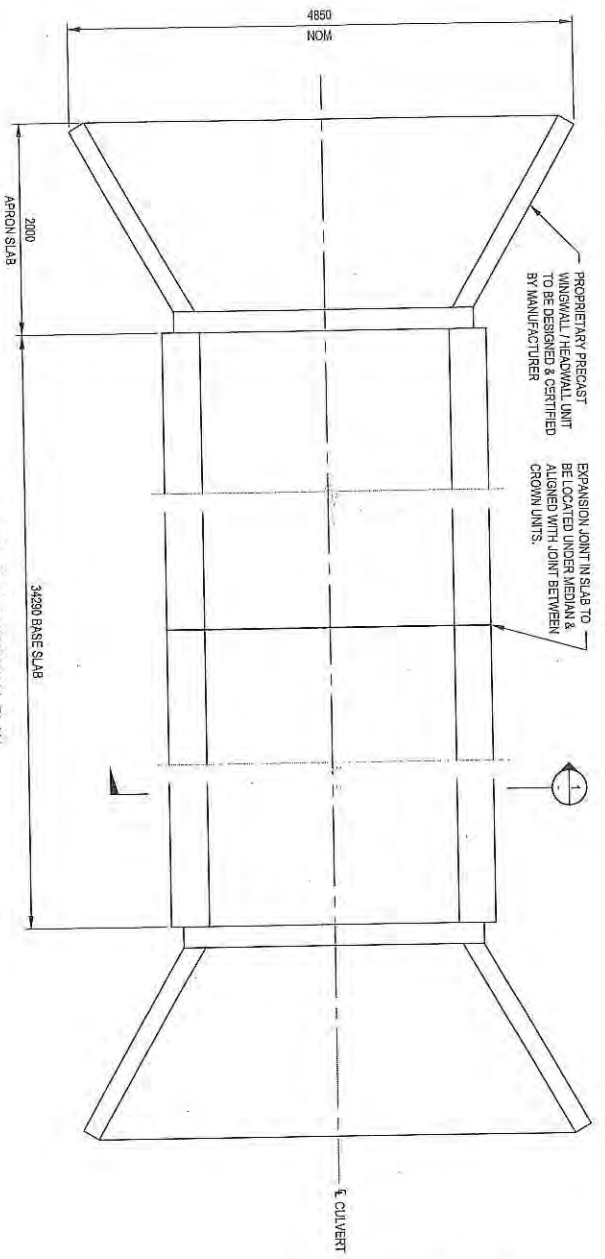
MARK	EASTING	NORTHING
SOP 1	518298.981	5401708.322
SOP 2	518325.865	5401727.092

PLAN SCALE 1:250

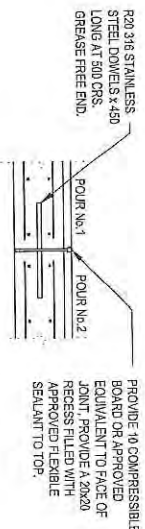
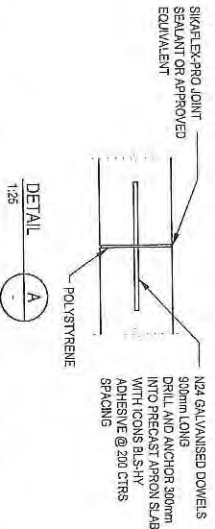
SCALES AS SHOWN

No.	Amendment Description	D.C.	Inch/Iss	Date
0	ISSUE FOR CONSTRUCTION			23/09/2020
As original This sheet may be prepared using colour and may be incomplete if copied				
Co-ordinate System: MGA 64 ZONE 55 High/Low Datum: A.H.D.				
 pit&sherry CONSULTANTS				
DESIGNED: L. ALLEN REVIEWED: D. COE				
Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS FROG CULVERT CH.5824 (MC10) GENERAL ARRANGEMENT				
CONTRACT No. 3288		DRAWING HR 1950-C1231		PRINTED DATE 23-Sep-20, 12:29 PM
REGISTRATION NUMBER A1109.001		SHEET No. 1231		REVISION 0

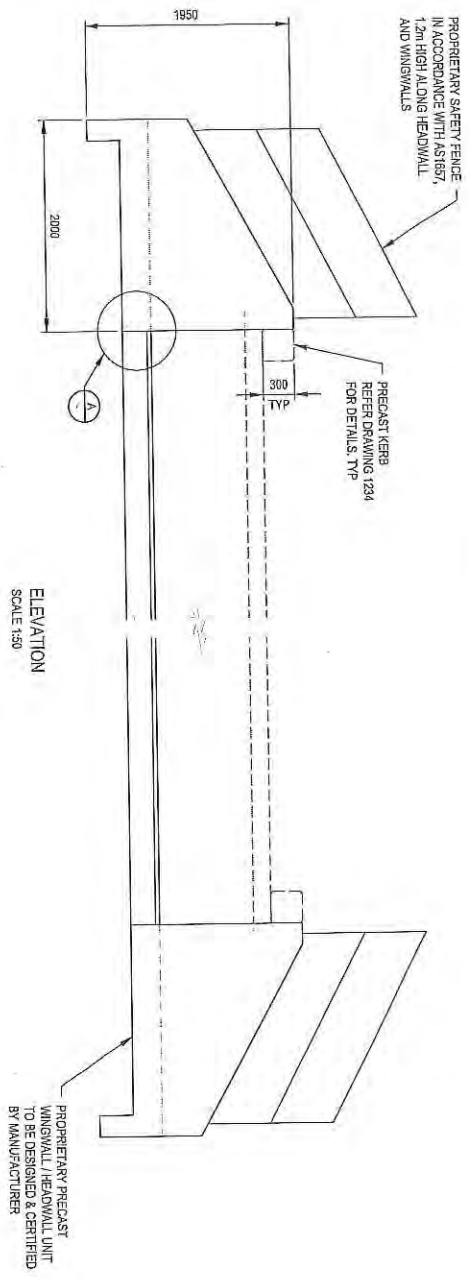
NOTE: REFER TO DRAWING 1231 FOR GENERAL NOTES.



SECTION 1-1
1:25
TYPICAL BASE SLAB SECTION
AMEND TO SUIT PRECAST CROWN UNIT AS NECESSARY



EXPANSION JOINT IN BASE SLAB (TYP)
SCALE 1:25
NOTES:
1. EXPANSION JOINT IN SLAB TO BE LOCATED UNDER MEDIAN & ALIGNED WITH JOINT BETWEEN CROWN UNITS.
2. ALLOW 6 DAYS MIN. BETWEEN POUR 1 AND POUR 2.

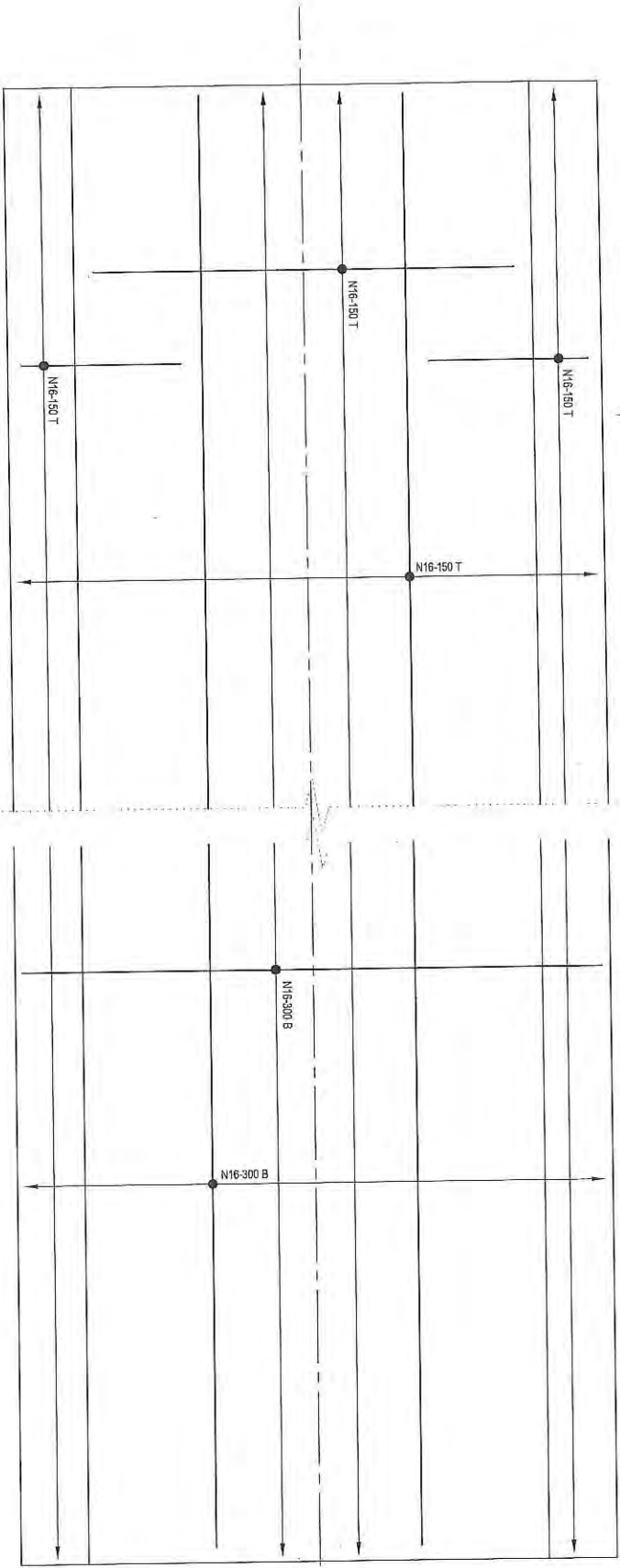


NOTE:
REFER TO DRAWING 1230 FOR GENERAL NOTES.

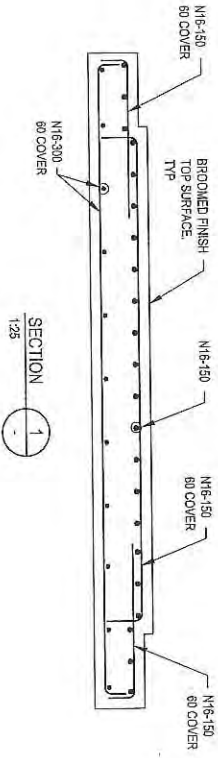
AMENDED

Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS FROG CULVERT CH 5924 (MC10) BASE SLAB & WINGWALL CONCRETE		CONTRACT NO. 3288	DRAWING HB 19503-C1232	PRINTED DATE 23-Sep-20, 12:59 PM	SHEET No. 1232
SCALES AS SHOWN	pit&sherry DESIGNED: E. FANNING REVIEWED: R. CASSELLY	REGISTRATION NUMBER A1109.001			
No. 0 ISSUE FOR CONSTRUCTION Amendment Description D.C. 23/09/2020 Thilibe Date	Co-ordinate System: MGA 94 ZONE 55 Height Datum: A.H.D.	REVISION 0			
A3 original This sheet may be prepared using colour and may be incomplete if copied					

AMENDED



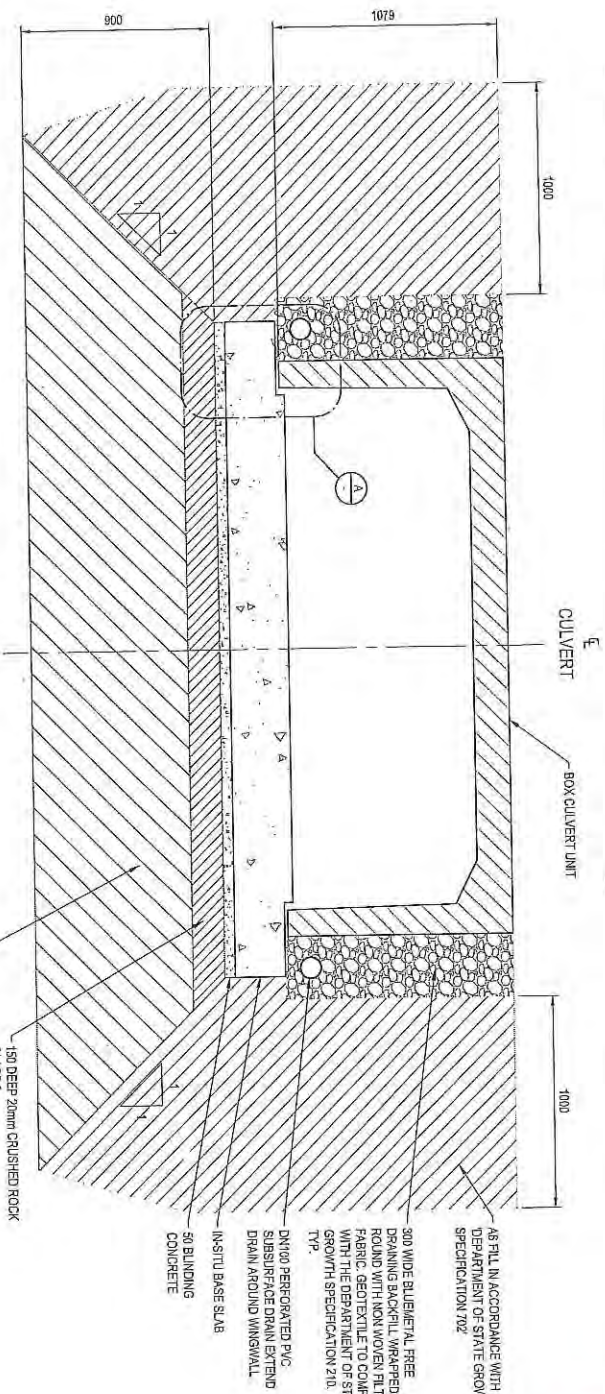
BASE SLAB PLAN
SCALE 1:25



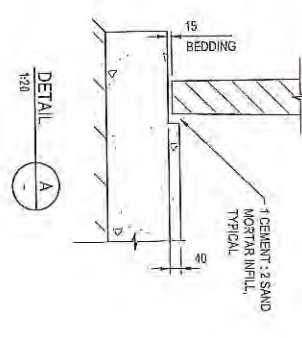
NOTE:
REFER TO DRAWING 1200 FOR GENERAL NOTES.

No. 0		ISSUE FOR CONSTRUCTION	D.C.	28/08/2020	Scales AS SHOWN		 DESIGNED: E. FANNING REVIEWED: R. CASSIDY		Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS FROG CULVERT CH 8924 (MC10) BASE SLAB REINFORCEMENT		CONTRACT No. 3288	DRAWING H819593-C1233	PRINTED DATE 23-Sep-20, 12:29 PM	SHEET No. 1233
No. A3 original		Amendment Description	Initials	Date	Co-ordinate System: MGA 94 ZONE 55		Height Datum: A.H.D.							REVISION 0

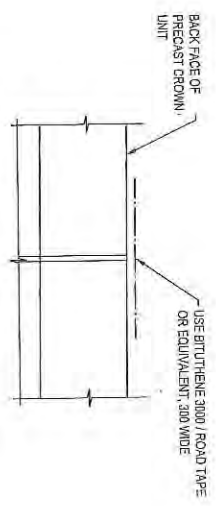
AMENDED



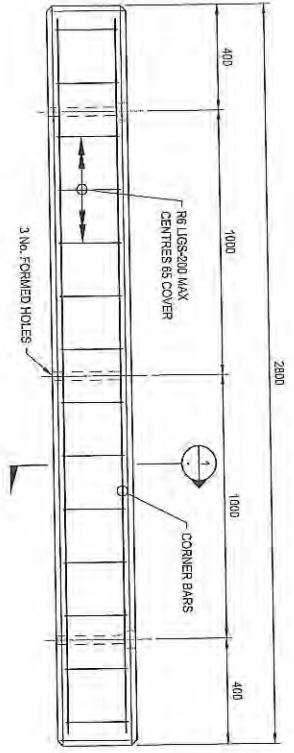
TYPICAL SECTION
SCALE 1:25



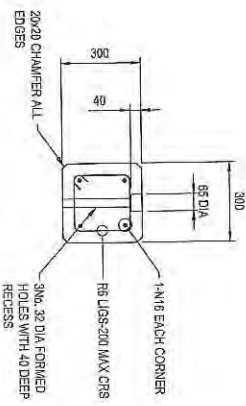
DETAIL
SCALE 1:30



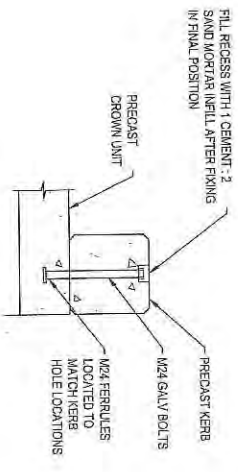
TYPICAL PRECAST CROWN UNIT JOINTING DETAIL
SCALE 1:10



PRECAST KERB - 200 REQUIRED
SCALE 1:20



SECTION 1
SCALE 1:20



PRECAST KERB FIXING DETAIL
SCALE 1:20

NOTE:
REFER TO DRAWING 1200 FOR GENERAL NOTES.

<p>Department of State Growth</p> <p>EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS FROG CULVERT CH 5924 (MC-10) TYPICAL SECTION & DETAILS</p>		
<p>DESIGNED BY: E. FANNING</p> <p>REVIEWED BY: R. CALSIFY</p>	<p>pit&sherry</p> <p>Engineering & Construction</p>	<p>SCALES AS SHOWN</p>
<p>CONTRACT No. 3288</p> <p>DRAWING No. H819508-C1234</p> <p>REGISTRATION NUMBER A1109.001</p>	<p>PRINTED DATE: 23-Sep-20, 12:29 PM</p>	<p>SHEET No. 1234</p> <p>REVISION 0</p>
<p>ISSUE FOR CONSTRUCTION</p> <p>Amendment Description: D.C. 23/09/2020</p> <p>No. 0 Initials: Date: 23/09/2020</p> <p>As original This sheet may be prepared using colour and may be incorporated if copied</p>		

AMENDED

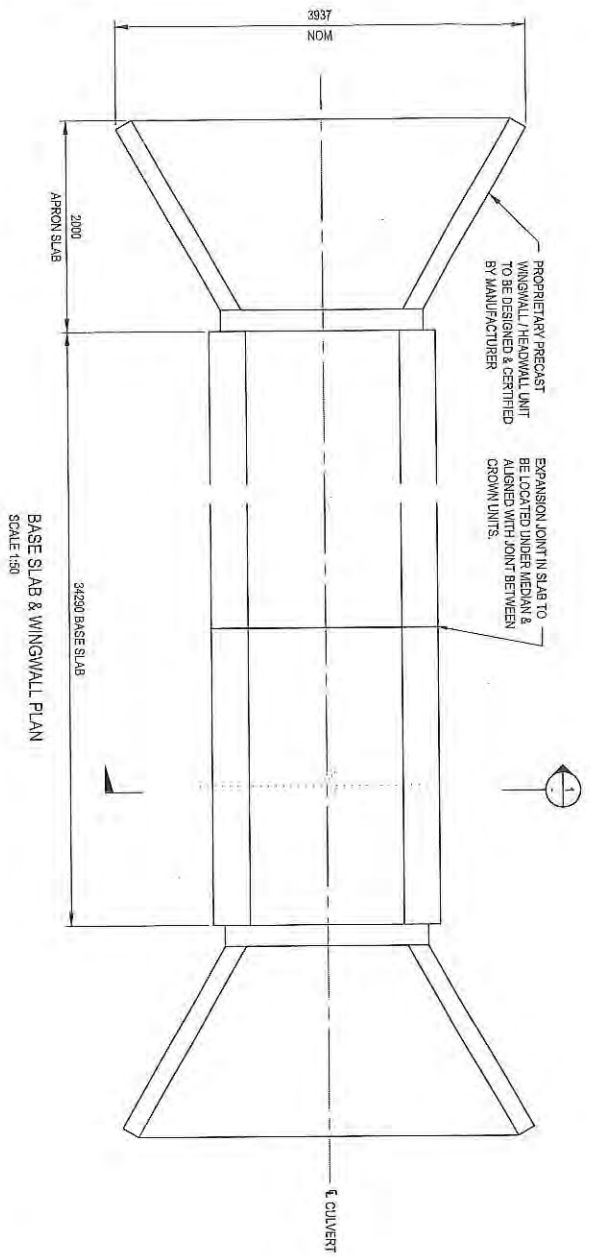


EVANDALE MAIN ROAD (A1109)
LAUNCESTON AIRPORT ACCESS (EVANDALE ROAD)
ROADWORKS

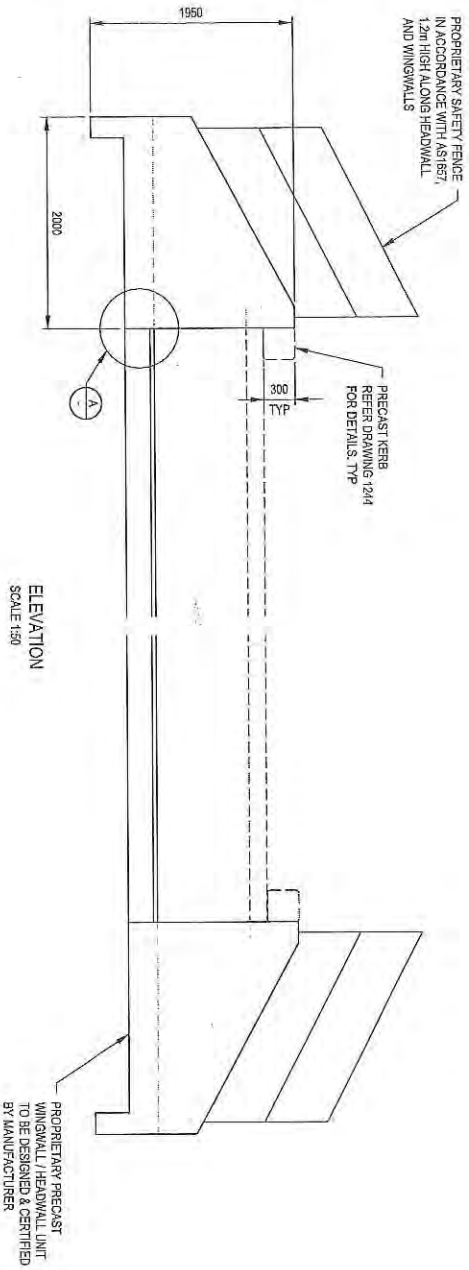
STRUCTURE 6217
FROG CULVERT AT CH. 5295 (MC20)

1-342

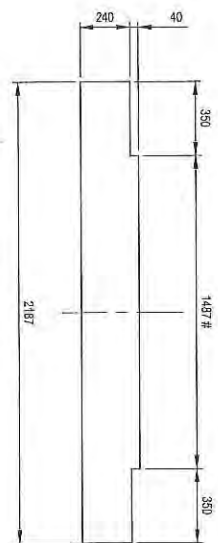
SCALES AS SHOWN		Co-ordinate System: MGA 94 ZONE 55		Height Datum: A.H.D.	
DESIGNED: L. ALLEN		DRAWING		PRINTED DATE	
REVIEWED: D. COE		3288		23-Sep-20, 12:30 PM	
Department of State Growth		REGISTRATION NUMBER		SHEET No.	
EVANDALE MAIN ROAD (A1109)		A1109.001		1239	
LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD)					
ROADWORKS					
STRUCTURE 6217 FROG CULVERT AT CH. 5295 (MC20)					
COVER PAGE					
CONTRACT No.		DRAWING		SHEET No.	
3288		HB19093-C1239		1239	
PRINTED DATE		REGISTRATION NUMBER		REVISION D	
23-Sep-20, 12:30 PM		A1109.001		1239	
No.		D.C.		Date	
0		23/09/2020			
ISSUE FOR CONSTRUCTION		Amendment Description		Initials	
AD original		This sheet may be prepared using colour and may be incomplete if copied			



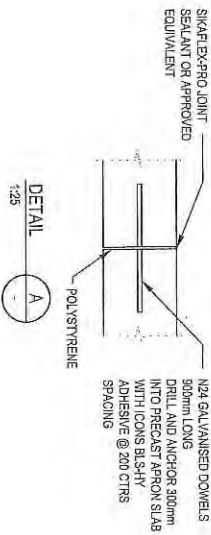
BASE SLAB & WINGWALL PLAN
SCALE 1:50



ELEVATION
SCALE 1:50



SECTION 1-1
1:25
TYPICAL BASE SLAB SECTION
AMEND TO SPLIT PRECAST CROWN UNIT AS NECESSARY



DETAIL
1:25

EXPANSION JOINT IN BASE SLAB (TYP)
SCALE 1:25

- NOTES:
1. EXPANSION JOINT IN SLAB TO BE LOCATED UNDER MEDIAN & ALIGNED WITH JOINT BETWEEN CROWN UNITS.
 2. ALLOW 6 DAYS MIN. BETWEEN POUR 1 AND POUR 2.

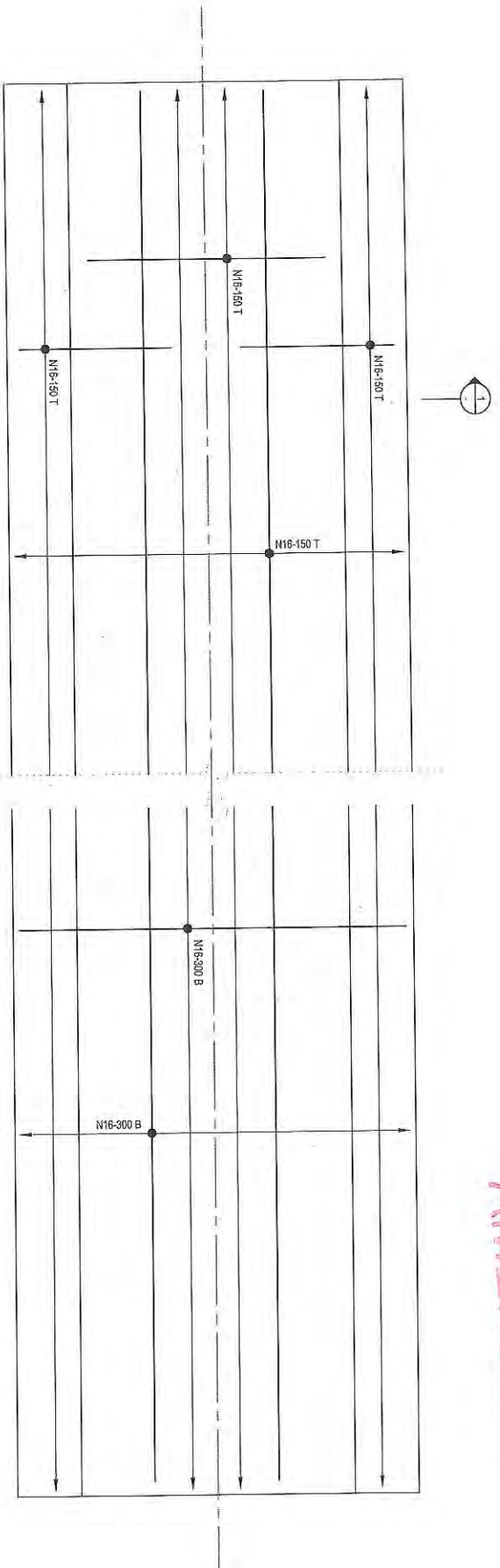
PROVIDE 10 COMPRESSIBLE BOARD OR APPROVED EQUIVALENT TO FACE OF JOINT. PROVIDE 4 20x20 RECESS FILLED WITH APPROVED FLEXIBLE SEALANT TO TOP.

NOTE:
REFER TO DRAWING 1/210 FOR GENERAL NOTES.

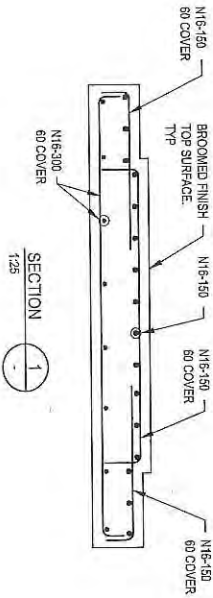
AMENDED

No. 0		ISSUE FOR CONSTRUCTION	D.C.	23/09/2020	Scales AS SHOWN		DESIGNED L. ALLEN		Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS FROG CULVERT CH 5295 (MC20) BASE SLAB & WINGWALL CONCRETE		CONTRACT No. 3289	DRAWING HB19503-C1242	PRINTED DATE 23-Sep-20, 1:29 PM	SHEET No. 1242
Amendment Description		Infills	Date	Coordinates System: MGA 94 ZONE 55	Height Datum: A.H.D.	DESIGNED D. COE	REVIEWED	pit&sherry	Government	REGISTRATION NUMBER A1109.001	REVISION 0			

AMENDED



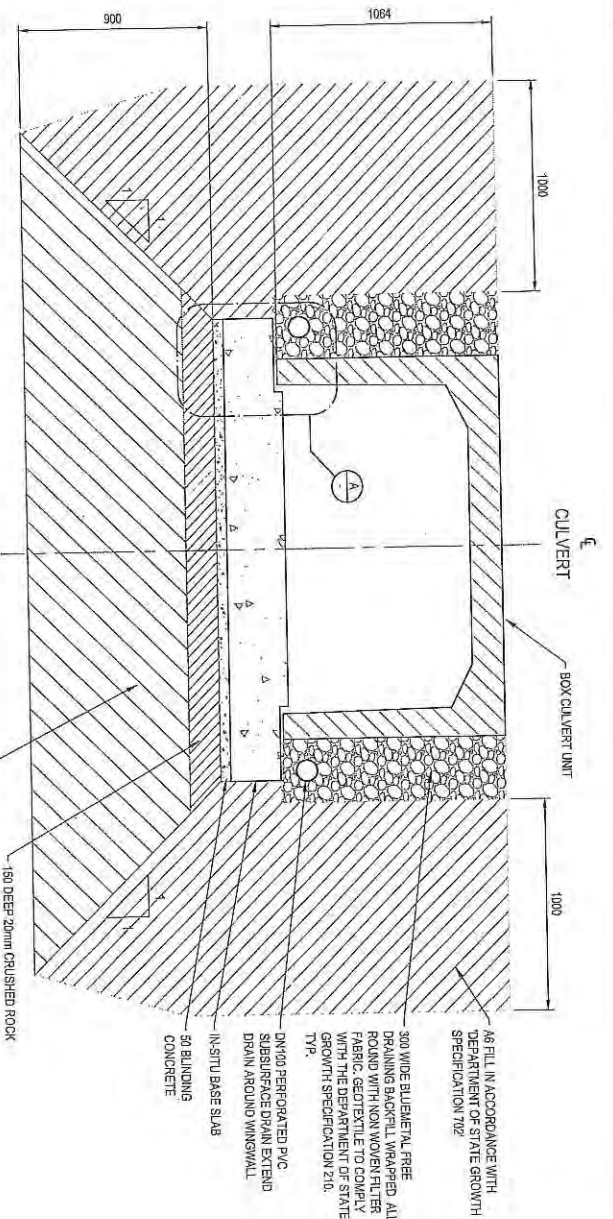
BASE SLAB PLAN
SCALE 1/25



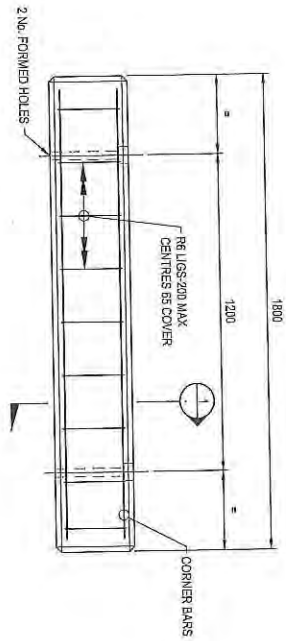
NOTE:
REFER TO DRAWING 1240 FOR GENERAL NOTES.

SCALES AS SHOWN		DESIGNED . L. ALLEN REVIEWED . D. COE		Department of State Growth EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS FROG CULVERT CH. 5295 (MC20) BASE SLAB REINFORCEMENT		CONTRACT No. 3298	DRAWING HB19603-01243	PRINTED DATE 23-Sep-20, 12:31 PM	SHEET No. 1243
No. 0 ISSUE FOR CONSTRUCTION Amendment Description Initials Date 23/09/2020	Conditions System: MGA 64 ZONE S5 Height Datum: A.H.D.			pit&sherry 		REGISTRATION NUMBER A1109.001		REVISION 0	
AS original This sheet may be prepared using colour and may be incomplete if copied									

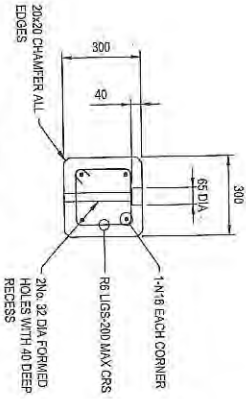
AMENDED



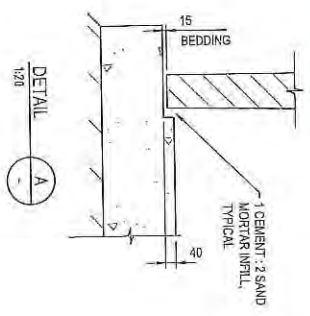
TYPICAL SECTION
SCALE 1:25



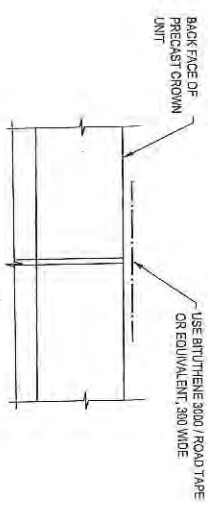
PRECAST KERB - 2NO. REQUIRED
SCALE 1:20



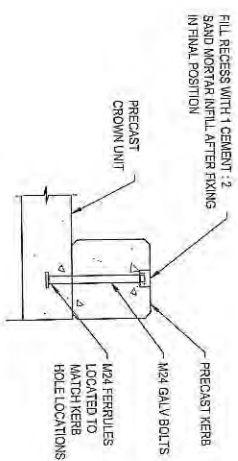
SECTION 1-1
SCALE 1:20



DETAIL
SCALE 1:20



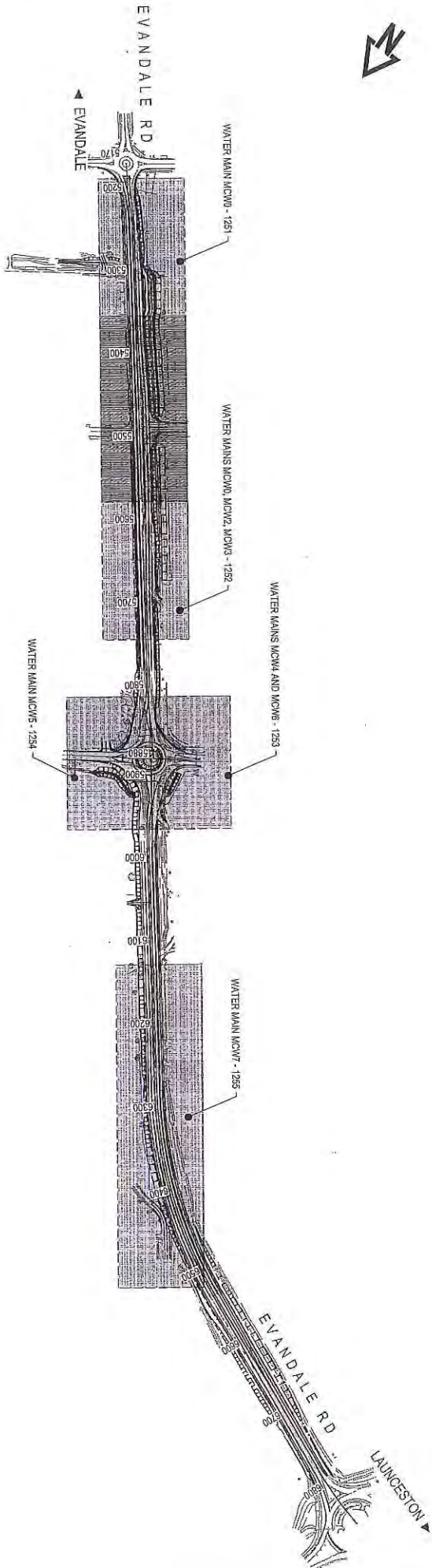
TYPICAL PRECAST CROWN UNIT JOINTING DETAIL
SCALE 1:10



PRECAST KERB FIXING DETAIL
SCALE 1:20

NOTE:
REFER TO DRAWING 1240 FOR GENERAL NOTES.

<p>Department of State Growth</p> <p>EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS PROG CULVERT CH.5295 (MC20) TYPICAL SECTION & DETAILS</p>		<p>DESIGNED BY: L. ALLEN</p> <p>REVIEWED BY: D. COE</p>	<p>CONTRACT No. 3286</p> <p>DRAWING No. HB16503-C194</p> <p>PRINTED DATE: 23-Sep-20, 12:31 PM</p>	<p>SHEET No. 1244</p>
<p>SCALES AS SHOWN</p>	<p>DESIGNED BY: L. ALLEN</p> <p>REVIEWED BY: D. COE</p>	<p>CONTRACT No. 3286</p> <p>DRAWING No. HB16503-C194</p> <p>PRINTED DATE: 23-Sep-20, 12:31 PM</p>	<p>SHEET No. 1244</p>	<p>REVISION 0</p>
<p>ISSUE FOR CONSTRUCTION</p>	<p>Amendment Description</p>	<p>DATE: 23/09/2020</p> <p>INITIALS: []</p>	<p>CONTRACT No. 3286</p> <p>DRAWING No. HB16503-C194</p> <p>PRINTED DATE: 23-Sep-20, 12:31 PM</p>	<p>SHEET No. 1244</p>
<p>AS ORIGINAL</p>	<p>This sheet may be prepared using colour and may be incomplete if copied</p>	<p>Coordinate System: MAGA SA ZONE 45</p> <p>Height Datum: AHD</p>	<p>CONTRACT No. 3286</p> <p>DRAWING No. HB16503-C194</p> <p>PRINTED DATE: 23-Sep-20, 12:31 PM</p>	<p>SHEET No. 1244</p>



AMENDED

<p>Department of State Growth</p> <p>EVANDALE MAIN ROAD (A1109) LAUNCESTON AIRPORT ROAD ACCESS (EVANDALE ROAD) ROADWORKS</p> <p>WATERMAIN KEY PLAN</p>		<p>CONTRACT No. 3266</p>		<p>DRAWING HB1603-C1950</p>		<p>PRINTED DATE 23-Sep-20, 12:32 PM</p>		<p>SHEET No. 1250</p>	
<p>DESIGNED L. ALLEN</p> <p>REVIEWED D. COE</p>		<p>pit&sherry</p> 		<p>REGISTRATION NUMBER A1109.001</p>		<p>REVISION 0</p>		<p>SCALES</p> <p>1:5000 (A3)</p> <p>SCALE IN INCHES - 1:1000</p> 	
<p>ISSUE FOR CONSTRUCTION</p>		<p>D.C. 23/09/2020</p>		<p>AMENDMENT DESCRIPTION</p>		<p>DATE</p>		<p>AMENDMENT NO.</p>	
<p>AD original</p>		<p>The sheet may be prepared using colour and may be incomplete if copied</p>		<p>Coordinate System: MGA 94 ZONE 55</p>		<p>Height Datum: AHD</p>		<p>Coordinate System: MGA 94 ZONE 55</p>	

