

Eden Street
Riverside Tasmania 7250
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PLANNING APPLICATION FORM

Section 57 & 58

OFFICE USE
ONLY

Application Number	PA2026276
Assess No:	A6225; A6227
PID No:	6075556; 7106078

Applicant Name:	West Tamar Council					
Applicant Contact Name						
Postal Address:						
Contact Phone:	Home		Work		Mobile	
Email Address:						

Planning Application Lodgement Checklist

The following documents have been submitted to support the consideration of this application:

1. A current copy of the property title text, folio plan and schedule of easements ☒
2. A completed application form including a detailed description of the proposal ☒
3. A complete plan set: Refer to S-P.25.1315-00-CIV-DRG-1000-1999.pdf, P.25.1315-00-STR-DRG-SET ☒
 - a) Floor plans ☐
 - b) Elevations (from all orientations/sides and showing natural ground level and finished surface level) ☐
 - c) Site Plan showing: ☐
 - Orientation
 - All title boundaries
 - Location of buildings and structure (both existing and proposed)
 - Setbacks from all boundaries
 - Native vegetation to be removed
 - Onsite services, connections and drainage details (including sewer, water and stormwater)
 - Cut and/or Fill
 - Car parking and access details (including construction material of all trafficable areas)
 - Fence details
 - Contours
4. Other: Landslide Hazard Report Rev01, dated 26 August 2026 – prepared by Pitt & Sherry.

*If submitting plans in over the counter please ensure they are A3.
All plans must be to scale.*

WEST TAMAR COUNCIL



Application Number: «Application Number»

APPLICANT DETAILS

Applicant Name: Cecilia Lourens (for West Tamar Council)

Note: Full name(s) of person(s) or company making the application and postal address for correspondence.

LAND DETAILS

Owner/Authority Name:
(as per certificate of title) West Tamar Council (road casement) & Amity Pty Ltd (199 Loop Rd)

Location / Address: 190 Loop Road, Glengarry and 199 Loop Road, Glengarry at the Gowans Creek crossing

Title Reference: CT 228187/1 and CT 119853/1

Zone(s): Agriculture

Existing Development/Use: Road & Agriculture

Existing Developed Area:

Are any of the components in this Application seeking retrospective approval?
E.g. Use and/or development that has commenced without a Planning Permit.

YES ☐
NO ☒

(If yes please specify the relevant components):

DEVELOPMENT APPLICATION DETAILS

Proposed Use:

Residential: ☐ Visitor Accommodation: ☐ Commercial: ☐ Other: ☐

Description of Use: Culvert crossing

Development Type:

Building work: ☐ Demolition: ☐ Subdivision: ☐ Other: ☐

Description of development: Culvert reconstruction

New or Additional Area:

Estimated construction cost of the proposed development:

Building Materials:

Wall Type: Colour:

Roof Type: Colour:

Application Number: «Application Number»

VISITOR ACCOMMODATION☒ N/A

Gross Floor Area to be used per lot:		Number of Bedrooms to be used:	
Number of Carparking Spaces:		Maximum Number of Visitors at a time:	

SUBDIVISION☒ N/A

Subdivision creating additional lots ☐

Boundary adjustment with no additional lots created ☐

Number of Lots (existing) :		Number of Lots (proposed) :	
Description:			
If applying for a subdivision which creates a new road(s), please supply three proposed names for the road(s), in order of preference:			
1.			
2.			
3.			

COMMERCIAL, INDUSTRIAL OR OTHER NON-RESIDENTIAL DEVELOPMENT/USE☒ N/A

Hours of Operation:	Monday / Friday:		To	
	Saturday:		To	
	Sunday:		To	
Existing Car Parking:				
Proposed Car Parking:				
Number of Employees: (Existing)				
Number of Employees: (Proposed)				
Type of Machinery installed:				
Details of trade waste and method of disposal:				

Application Number: «Application Number»

APPLICANT DECLARATION

Owner: As the owner of the land, I declare that the information contained in this application is a true and accurate representation of the proposal and I consent to this application being submitted and for Council Officers to conduct inspections as required for the proposal,

Name (print)

Signed

Date

Applicant: As the applicant, I declare that I have notified the owner of my intention to make this application and that (if not the owner) the information contained in this application is a true and accurate representation of the proposal,

Name (print)

Signed

Date

Please Note: If the application involves Crown Land you will need to provide a letter of consent and this form signed by the Minister, or a delegated officer of the Crown with a copy of the delegation.

**Crown
Consent**
(if required)

Name (print)

Signed

Date

**Chief
Executive
Officer**
(if required)

Name (print)

Signed

Date

If the subject site is accessed via a right of way, the owner of the ROW must also be notified of the application.

Right of Way Owner:

As the applicant, I declare that I have notified the owner of the land encumbered by the Right Of Way, of my intent to lodge this application that will affect their land.

Name (print)

Signed

Date

ORIGINAL - NOT TO BE REMOVED FROM TITLES OFFICE

R.P. 1469

TASMANIA

REAL PROPERTY ACT, 1862, as amended

NOTE - REGISTERED FOR OFFICE

CONVENIENCE TO REPLACEMENT



CERTIFICATE OF TITLE

Register Book

Vol. Fol.

3035 58

Cert. of Title Vol. 912 Fol. 14.

I certify that the person described in the First Schedule is the registered proprietor of an estate in fee simple in the land within described together with such interests and subject to such encumbrances and interests as are shown in the Second Schedule. In witness whereof I have hereunto signed my name and affixed my seal.

A. Imlach
Recorder of Titles.



DESCRIPTION OF LAND

PARISH OF MARLAND LAND DISTRICT OF DEVON
FIFTEEN ACRES TWENTY PERCHES AND ONE TENTH OF A PERCH on the
Plan hereon.

FIRST SCHEDULE (continued overleaf)

TREVOR NEIL LEES of Glengarry, Orchardist.

SECOND SCHEDULE (continued overleaf)

NO.A173388 MORTGAGE to Commonwealth Development Bank of Australia
Registered 27th November, 1962 at Noon.

(Sgd.) A. IMLACH, Recorder of Titles
NO.A195668 MORTGAGE to Board of Management of the Agricultural Bank of Tasmania
Registered 3rd. February, 1964 at Noon
(Sgd.) A. IMLACH, Recorder of Titles.

DISCHARGED A377945

A. Imlach
Recorder of Titles
Cancelled See A377946

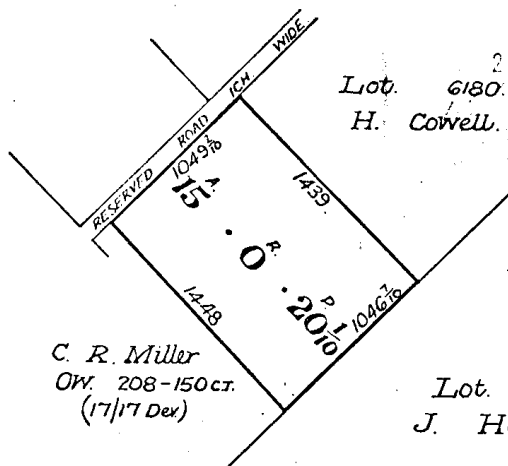
A. Imlach
Recorder of Titles.

OF THE RECORDER OF TITLES ARE NO LONGER SUBSISTING.

Lot 1 of this plan consists of all the land comprised in the above-mentioned cancelled folio of the Register.

REGISTERED NUMBER

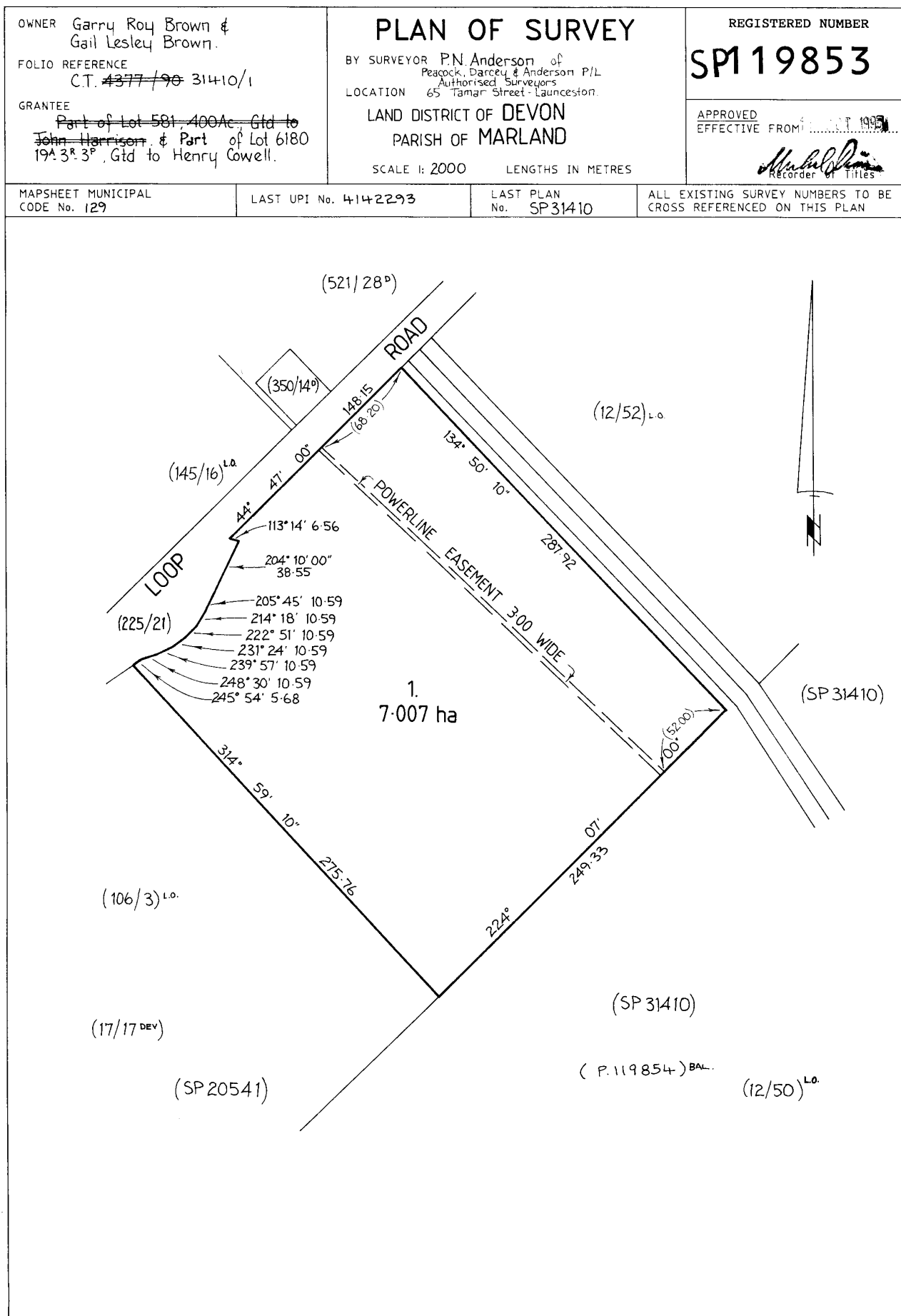
228187



Part of Lot 19581 Gtd. to W.C. Gowans Meas. in Links.

FIRST Edition. Registered

Derived from C.T.Vol.912 Fol.14. Transfer A97892- N.Campbell & anor.
" A147497- R.A.Lees



A-148

SCHEDULE OF EASEMENTS NOTE: THE SCHEDULE MUST BE SIGNED BY THE OWNERS & MORTGAGEES OF THE LAND AFFECTED. SIGNATURES MUST BE ATTESTED.	REGISTERED NUMBER SP1 19853
<u>EASEMENTS AND PROFITS</u> Each lot on the plan is together with:- (1) such rights of drainage over the drainage easements shown on the plan (if any) as may be necessary to drain the stormwater and other surplus water from such lot; and (2) any easements or profits a prendre described hereunder. Each lot on the plan is subject to:- (1) such rights of drainage over the drainage easements shown on the plan (if any) as passing through such lot as may be necessary to drain the stormwater and other surplus water from any other lot on the plan; and (2) any easements or profits a prendre described hereunder. The direction of the flow of water through the drainage easements shown on the plan is indicated by arrows. PAGE 1 OF 2 PAGES <u>EASEMENTS</u> Lot 1 is subject to a Powerline ^{Right} ~~Easement~~ 3.00 wide appurtenant to the balance of the land comprised in Folio of the Register Volume 4377 Folio 90 under in through over along and upon the strip of land marked Powerline Easement 3.00 wide shown on the plan <u>COVENANT</u> The owner of Lot 1 shown on the plan ~~and the owner or owners of the balance of the land comprised in Folio of the Register Volume 4377 Folio 90~~ covenant with ~~the Mayor Aldermen and Citizens of~~ the West Tamar Council to the intent that the burden of this covenant may run with and bind the Covenantors Lot and every part thereof ~~and that the benefit thereof shall be annexed to and devolve with each and every part of every other Lot shown on the plan to~~ observe the following stipulation namely:- not without the consent of the West Tamar Council to remove any trees from within ten (10) metres of either side of Gowans Creek	
SUBDIVIDER : GARRY ROY BROWN + GAIL LESLEY BROWN FOLIO REF : C.T. 4377/90 SOLICITOR : RAE + PARTNERS & REFERENCE :	PLAN SEALED BY : WEST TAMAR COUNCIL DATE : DA2195 REF No.  General Manager
NOTE: THE COUNCIL GENERAL MANAGER MUST SIGN THE CERTIFICATE FOR THE PURPOSE OF IDENTIFICATION.	

SCHEDULE OF EASEMENTS

PAGE 2 OF 2 PAGES

Registered Number

SP119853

FENCING COVENANT

The owner of Lot 1 shown on the plan covenants with the Vendors (Garry Roy Brown and Gail Lesley Brown) that the Vendors shall not be required to fence

INTERPRETATION

^{Right}
~~Powerline Easement~~ means the full right and liberty for the owner or owners of the balance of the land comprised in Folio of the Register Volume 4377 Folio 90 and the Hydro Electric Commission to enter upon the strip of land shown in the plan and to lay repair replace and maintain wires cables and junctions therein and the owner or owners of the balance of the land comprised in Folio of the Register Volume 4377 Folio 90 and the Hydro Electric Commission respectively making good any damage to the surface occasioned thereby

Balance means balance of the land remaining in Folio of the Register Vol 31410 Fol 1 at the date of acceptance hereof

SIGNED by GARRY ROY BROWN the) excepting Lot 1 on

registered proprietor of Folio)

of the Register Volume 4377 Folio)

90 in the presence of:)

where: Garry Roy Brown
address: Launceston
occupation: Lawyer

SIGNED by GAIL LESLEY BROWN the)

registered proprietor of Folio of)

the Register Volume 4377 Folio 90)

in the presence of:)

where: Lisa Jane Cooke

address: 6 Tallarook Street, Seymour
occupation: A Solicitor who holds a current Practising Certificate under the Legal Profession Practice Act 1958.

Enquiries: Office of the CEO
Phone: (03) 6323 9300
Fax: (03) 6323 9349
Our Ref: I2026332940



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25 September 2026

Planning Department
By email: planning@wtc.tas.gov.au

To Whom it may Concern

RE: WRITTEN PERMISSION PURSUANT TO SECTION 52(1B) OF THE LAND USE PLANNING AND APPROVALS ACT 1993

I Kristen Desmond, Chief Executive Officer of West Tamar Council, hereby provide written permission pursuant to Section 52(1B) of the *Land Use Planning and Approvals Act 1993* for the planning department to lodge a planning permit application in relation to land owned/administered by West Tamar Council.

The subject land is described as:

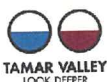
- Property Address: Loop Road, Glengarry – 199 Loop Road, Glengarry
- Certificate of Title: 228187/1 & 119853/1

The proposed development comprises:

The reconstruction of the Loop Road crossing over Gowans Creek at Glengarry, following failure of the existing pipe culvert in October 2025. The failure caused substantial erosion of the road embankment, loss of pavement support and damage to the crossing, resulting in the ongoing closure of Loop Road which provides circular connection to Frankford Road.

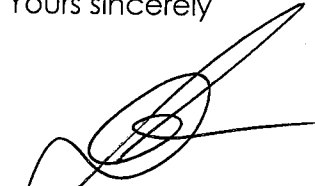
The proposal involves removal of the failed culvert and damaged embankment and construction of a new 3.6m wide by 3.0m high precast concrete box culvert, together with reconstruction of the road embankment, pavement and associated safety barriers. The replacement culvert will increase hydraulic capacity to better accommodate high-flow events associated with Gowans Creek and reduce the risk of future failure.

Associated works include earthworks and localised realignment of the Gowans Creek channel at the culvert inlet and outlet, rock rip-rap and scour protection, erosion control treatments, and replacement of approximately 75m of the existing water main within the works area.



This consent is provided solely for the purpose of enabling the lodgement of a planning permit application and does not imply Council support for, or approval of, the proposed development. The application will be assessed on its merits in accordance with the applicable provisions of the Tasmanian Planning Scheme and any other relevant legislation.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Kristen Desmond', written over a circular stamp or seal.

Kristen Desmond
Chief Executive Officer
West Tamar Council

The extent of the failure is visible in Figure 1 below.

AFFECTED PROPERTIES

The majority of the proposed culvert replacement and roadworks will be undertaken within the Loop Road road reserve. However, the works will also affect portions of two adjoining private properties:

- 199 Loop Road - CT 119853/1 (the South Lot)
- 190 Loop Road – CT 228187/1

Copies of the relevant Certificates of Title are included as attachments to this application.

To the north of Loop Road, Gowans Creek runs through CT 113229/1 (the North Lot) which is owned by Amitty Pty Ltd. No part of the proposed works will extend into this property.

To the south of Loop Road, Gowans Creek runs through CT 119853/1 (the South Lot) which is also owned by Amitty Pty Ltd. Although the majority of the proposed works will be contained within the Loop Road road reserve, a portion of the works on the southern side of Loop Road will extend onto the South Lot.

In addition, a small portion of the proposed roadworks will extend into the northern corner of CT 228187/1. While this area lies outside the existing property fencing and, in practical terms, forms part of the road corridor, it remains within the private property boundary and has therefore been included in the application.

The extent of the proposed works is shown on drawings S-P.25.1315-00-CIV-DRG-1101 (General Arrangement Drawing 1) and S-P.25.1315-00-CIV-DRG-1102 (General Arrangement Drawing 2).

LANDOWNER NOTIFICATION AND ACCESS REQUIREMENTS

West Tamar Council has already informed the landowners of the proposed works. However, a further formal notification of the proposed works and the anticipated timing of site access will be made. Any entry onto private land will be undertaken in accordance with the relevant statutory requirements.

Pursuant to Section 16 of the *Urban Drainage Act 2013 (Tas)*, Council has the authority to enter and remain on land where necessary to carry out drainage or watercourse-related works. Consistent with the requirements of the Act, the landowner will be provided with not less than seven days' notice of Council's intention to enter the property and the purpose for which access is required.

TASMANIAN PLANNING SCHEME ASSESSMENT

Building and Works Within a Landslip Hazard Area

The proposed culvert replacement is located within an area identified as Low Landslide Hazard Band under the Tasmanian Planning Scheme. A Landslide Hazard Report, prepared by Pitt & Sherry and dated 26 August 2026, accompanies this application.

The report concludes that, subject to implementation of the recommended design and construction measures, the proposed development satisfies the requirements of Clause C15.6.1 P1.2 (Buildings and Works within a Landslide Hazard Area). The proposed works are therefore not expected to adversely affect slope stability, increase landslide risk, or create unacceptable risks to public infrastructure or adjoining properties.

Buildings and Works Within a Waterway

The proposed development is located within and adjacent to Gowans Creek and is therefore subject to the requirements of Clause C7.6.1 P1.1 of the Tasmanian Planning Scheme.

The project has been designed to avoid or minimise adverse impacts on the waterway and surrounding natural values and is considered to satisfy the performance criteria for the following reasons:

(a) impacts caused by erosion, siltation, sedimentation and runoff;	Temporary erosion and sediment control measures will be implemented throughout construction to minimise sediment mobilisation and downstream impacts. Following completion of the works, the installation of rock rip-rap and scour protection measures will reduce the potential for long-term erosion of the creek banks and culvert approaches.
(b) impacts on riparian or littoral vegetation;	Disturbance to existing riparian vegetation has been minimised through the design process and is limited to that necessary for construction and ongoing infrastructure protection.
(c) maintaining natural streambank and streambed condition, where it exists;	The proposed works will stabilise areas affected by the previous culvert failure and improve the long-term condition of the streambanks and streambed through the installation of erosion protection measures. Disturbance to the existing streambed will be limited to that necessary for construction of the replacement crossing. The proposed upstream creek alignment will also improve hydraulic performance by providing a more uniform flow path through the crossing, reducing localised turbulence and velocity concentrations associated with changes in channel geometry. This will minimise the potential for future erosion and scouring, thereby supporting the long-term maintenance of the natural streambank and streambed condition.
(d) impacts on in-stream natural habitat, such as fallen logs, bank overhangs, rocks and trailing vegetation;	The works primarily replace an existing crossing. Construction activities will be managed to minimise impacts on in-stream habitat features.
(e) the need to avoid significantly impeding natural flow and drainage;	The replacement culvert has been designed with increased hydraulic capacity to improve conveyance of flood flows and reduce the likelihood of flow restriction during significant rainfall events. The proposal will improve natural flow and prevent the build-up of debris. During construction the creek flows will be managed. The contractor's proposed methodology will be subject to Council approval prior to being implemented.
(f) the need to maintain fish passage, where known to exist;	Not required.
(g) the need to avoid land filling of wetlands;	N/A
(h) the need to group new facilities with existing facilities, where reasonably practical;	The proposal constitutes the replacement of existing infrastructure in its current location and therefore consolidates development within an already disturbed and established infrastructure corridor.
(i) minimising cut and fill;	Earthworks have been limited to those necessary to reconstruct the failed embankment, install the

	replacement culvert, and establish stable road approaches.
(j) building design that responds to the particular size, shape, contours or slope of the land;	The design has been developed having regard to the site's topography, watercourse characteristics, geotechnical conditions, and hydraulic requirements. The building works are limited to civil construction building outcomes.
(k) minimising impacts on coastal processes, including sand movement and wave action;	N/A
(l) minimising the need for future works for the protection of natural assets, infrastructure and property;	The proposed works will significantly improve the resilience of the crossing and reduce future risks associated with erosion, scour and flood damage, thereby minimising the need for ongoing intervention and emergency repairs. Pitt & Sherry conducted an hydrological/hydraulic assessment ensuring the culvert design took into consideration appropriate 2100 climate change scenarios.
(m) the environmental best practice guidelines in the Wetlands and Waterways Works Manual; and	Although the Wetlands and Waterways Works Manual is not specifically cited, the construction tender documentation requires compliance with all relevant environmental legislation and the preparation of a project-specific EMP prior to works commencing. The environmental controls to be implemented during construction, including erosion and sediment control, pollution prevention and protection of nearby waterways, are consistent with recognised environmental best practice and the objectives of the Wetlands and Waterways Works Manual.
(n) the guidelines in the Tasmanian Coastal Works Manual.	N/A

Accordingly, the proposed culvert replacement is considered to satisfy the intent and requirements of Clause C7.6.1 P1.1 by providing essential public infrastructure while avoiding or minimising adverse impacts on the waterway and surrounding natural values.



Landslide Hazard Report

Loop Road Culvert Replacement

Prepared for
West Tamar Council

Client representative
Dino De Paoli

Date
26 August 2026

Rev01

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Figure 2: Instability on the banks of Gowans Creek as seen on Google Street View image from 2023

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Prepared by — Andrew Tyson		Date — 25 August 2026
Reviewed by — Megan Abbott		Date — 25 August 2026
Authorised by — Hayden Williams		Date — 25 August 2026

Revision History					
Rev No.	Description	Prepared by	Reviewed by	Authorised by	Date
00	Landslide Hazard Report	AT	MA	HW	25/08/2026
01	Landslide Hazard Report	AT	MA	HW	26/08/2026

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1. Purpose

The purpose of this Landslide Hazard Report is to demonstrate that the proposed culvert replacement where Loop Road crosses Gowans Creek near Glengarry complies with the applicable provisions of the Tasmanian Planning Scheme's Landslide Code.

The proposed culvert replacement is located in a Low Landslide Hazard Band (see Figure 1 below).



Figure 1: Landslide hazard bands and view of failed previous culvert

The works to be undertaken involve the removal of the failed culvert and embankment. This is to be replaced with a new, larger culvert and associated embankment. A section of water main within the existing embankment will also be replaced. The works involve the installation of a significant area of rock rip-rap to mitigate against erosion of the stream banks and to improve stability.

2. Landslide risk

The works proposed at the site are intended to replace a failed culvert with one of larger capacity that can better cope with the flows in Gowans Creek. The works have been designed with the aim of improving the slope stability within the creek, by installing rip-rap sections both upstream and downstream of the new culvert.

Photographs of the creek and hillshade data accessed through LISTmap show that the creek is deeply incised, and that instability has already been occurring at the site (Figure 2).



Figure 2: Instability on the banks of Gowans Creek as seen on Google Street View image from 2023

The low landslide risk hazard bands in this area are based on slopes within the 9-20° range. The way in which these slopes are likely to fail is through undercutting of slopes by water flow or tree fall resulting from undercutting and heavy water flow. Currently the stream in the vicinity of the culvert is unlined and significantly eroded.

The new, larger culvert will reduce the risk of high-water flow overwhelming the drainage and potential instability in the built embankment. The installation of rip-rap will reduce the risk of undercutting of the stream slopes and subsequent failures. The design is shown on the following page.

It is assessed that the installation of a larger capacity culvert and rip-rap on the banks both up and down stream will reduce the likelihood of a landslide trigger event occurring from a given rain event, as compared to the current situation, and as such is an improvement to the overall landslide risk.



3. Risk Assessment

The new culvert has been designed for a 1% annual exceedance probability (AEP) based on the 2100 SSP5 case. In assessing the likelihood of culvert collapse with the potential to affect road users or cause significant damage to the culvert structure, it is assessed that one in ten events that exceed the capacity of the culvert may cause such damage.

The risk to life has been assessed using the methodology presented in the RMS Guide to Slope Risk Analysis Version 4, a methodology for which the author is accredited.

Under this methodology a likelihood of L4 has been assigned on the basis of the description above. It is assumed that the section of Loop Road takes between 30 and 270 vehicles per lane per day (T4), and that the speed limit is 100km/h. Assuming that a failure leads to a deep, narrow void as was experienced in the current failure, this leads to a vulnerability of V1. Combining this with the temporal category of T4, this leads to a consequence rating of C3. Combining that with the likelihood of L4 gives an Assessed Risk Level of ARL4.

This level of risk would be equivalent to an acceptable rating under the AGS 2007c methodology, which is safer than the tolerable rating required by the landslide code.

Further assessments have not been undertaken for the risk of undermining of the stream embankments, as this is not assessed to present a credible risk to life, and additionally the proposed works will reduce the chance of this scenario.

4. Landslide code

As the assessment above demonstrates, the proposed stormwater upgrades are assessed to reduce the landslide risk in the area, compared to the current situation. As such, the proposal can be considered to be consistent with the purpose of the code. The purpose of the code is to ensure that use and development is appropriately designed, located, serviced, constructed or managed to reduce to within tolerable limits the risk to human life and property and the cost to the community, caused by landslides.

5. Conclusion

As per the risk assessment in section 3 above, if the new culvert is constructed as per the plan presented, it is assessed that the resultant risk of slope instability for the site and adjacent land will be tolerable.

6. Development standards

The following development standard applies:

- C15.6.1 Building and works within a landslide hazard area

C15.6.1 Building and works within a landslide hazard area

Objective: That building and works on land within a landslide hazard area can:

- Minimise the likelihood of triggering a landslide event; and
- Achieve and maintain a tolerable risk from a landslide.

Acceptable Solution	Performance Criteria
A1 No acceptable solution.	P1.1 Building and works within a landslide hazard area must minimise the likelihood of triggering a landslide event and achieve and maintain a tolerable risk from landslide, having regard to: - The type, form, scale and intended duration of the development; - Whether any increase in the level of risk from a landslide requires any specific hazard reduction or protection measures; - Any advice from a State authority, regulated entity or a council; and - The advice contained in a landslide hazard report.
	P1.2 A landslide hazard report also demonstrates that the buildings and works do not cause or contribute to landslide on the site, on adjacent land or public infrastructure.
	P1.3 If landslide reduction or protection measures are required beyond the boundary of the site, the consent in writing of the owner of that land must be provided for that land to be managed in accordance with the specific hazard reduction or protection measures.

Assessment

The proposed culvert replacement satisfies P1.1 for the following reasons:

- As per the assessment in section 3 the proposed works are assessed to achieve and maintain a tolerable risk from landslide.
- The proposed works have been designed to reduce the level of risk of landslide in the area.
- No advice has been received from any State authorities, regulated entities or councils.
- The rest of this report presents the evidence and rationale supporting the assessment that the proposed works comply with the development standards.

The proposed culvert replacement satisfies P1.2 for the following reasons:

- As per the description in section 2 and the assessment in section 3 the proposed works are assessed to reduce the risk from landslide at the site and in adjacent land.

The proposed culvert replacement satisfies P1.3 for the following reasons:

- Some elements of the rip rap that is designed to reduce the potential for undercutting of the stream banks will encroach on an adjoining property. Email confirmation that this work is approved by the owner has been obtained as per email received by Dino De Paoli on 23 April 2026.

7. Landslide assessor's credentials

The landslide assessment was undertaken by Andrew Tyson, a pitt&sherry Principal Engineering Geologist with over 20 years' experience in geotechnical consulting work, specialising in slope stability issues.

Important information about your report

In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints. The Report may only be used and relied on by the Client for the purpose set out in the Report. Any use which a third party makes of this document, or any reliance on or decisions to be made based on it, is the responsibility of the Client or such third parties.

The services undertaken by pitt&sherry in connection with preparing the Report were limited to those specifically detailed in the report and are subject to the restrictions, limitations and exclusions set out in the Report. The Report's accuracy is limited to the time period and circumstances existing at the time the Report was prepared. The opinions, conclusions and any recommendations in the Report are based on conditions encountered and information reviewed at the date of preparation of the Report. pitt&sherry has no responsibility or obligation to update the Report to account for events or changes occurring after the date that the report was prepared. If such events or changes occurred after the date that the report was prepared render the Report inaccurate, in whole or in part, pitt&sherry accepts no responsibility, and disclaims any liability whatsoever for any injury, loss or damage suffered by anyone arising from or in connection with their use of, reliance upon, or decisions or actions based on the Report, in whole or in part, for whatever purpose.

Landslide Hazard Report

Loop Road Culvert Replacement

**Pitt & Sherry
(Operations) Pty Ltd**
ABN 67 140 184 309

Phone 1300 748 874
info@pittsh.com.au
pittsh.com.au

Located nationally —

Melbourne
Sydney
Brisbane
Hobart
Launceston
Newcastle
Devonport

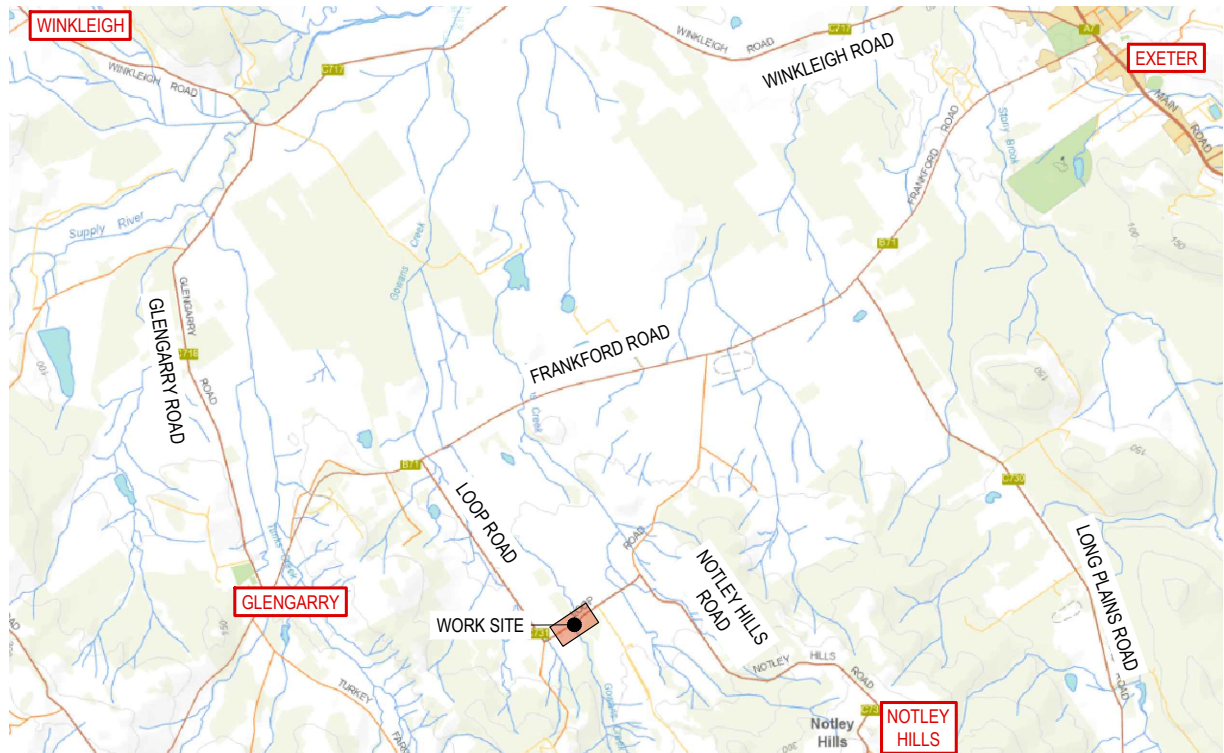


WEST TAMAR COUNCIL

LOOP ROAD CULVERT - CIVIL

GLENGARRY - TAS

DRAWING SCHEDULE - CIVIL			
DRAWING NUMBER	REVISION	TITLE	
S-P.25.1315-00-CIV-DRG-1000	A	COVER SHEET	
S-P.25.1315-00-CIV-DRG-1002	A	NOTES - DRG 1	
S-P.25.1315-00-CIV-DRG-1003	A	SAFETY IN DESIGN	
S-P.25.1315-00-CIV-DRG-1004	A	LEGEND	
S-P.25.1315-00-CIV-DRG-1101	A	GENERAL ARRANGEMENT - DRG 1	
S-P.25.1315-00-CIV-DRG-1102	A	GENERAL ARRANGEMENT - DRG 2	
S-P.25.1315-00-CIV-DRG-1121	A	ALIGNMENT AND SURVEY CONTROL	
S-P.25.1315-00-CIV-DRG-1125	A	ALIGNMENT AND SURVEY CONTROL - SETOUT TABLES	
S-P.25.1315-00-CIV-DRG-1131	A	TYPICAL SECTIONS - CULVERTS	
S-P.25.1315-00-CIV-DRG-1132	A	TYPICAL SECTIONS - ROAD	
S-P.25.1315-00-CIV-DRG-1211	A	LONGITUDINAL SECTION - CONTROL LINE - ROAD	
S-P.25.1315-00-CIV-DRG-1212	A	LONGITUDINAL SECTION - CONTROL LINE - CREEK	
S-P.25.1315-00-CIV-DRG-1311	A	CROSS SECTIONS DRG 1	
S-P.25.1315-00-CIV-DRG-1312	A	CROSS SECTIONS DRG 2	
S-P.25.1315-00-CIV-DRG-1313	A	CROSS SECTIONS DRG 3	
S-P.25.1315-00-CIV-DRG-1314	A	CROSS SECTIONS DRG 4	
S-P.25.1315-00-CIV-DRG-1315	A	CROSS SECTIONS DRG 5	
S-P.25.1315-00-CIV-DRG-1316	A	CROSS SECTIONS DRG 6	
S-P.25.1315-00-CIV-DRG-1317	A	CROSS SECTIONS DRG 7	
S-P.25.1315-00-CIV-DRG-2101	A	GENERAL ARRANGEMENT - TEMPORARY WATER MAIN	
S-P.25.1315-00-CIV-DRG-2102	A	GENERAL ARRANGEMENT - WATER MAIN - PROPOSED	
S-P.25.1315-00-CIV-DRG-2103	A	TYPICAL DETAILS - WATER MAIN	



LOCALITY PLAN

N.T.S



-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.

DRAWING REVISION HISTORY						APPROVED ORIGINAL COPY ON FILE "e" SIGNED BY	SCALE (PLOTTED FULL SIZE) NTS	SHEET SIZE A3	CLIENT WEST TAMAR COUNCIL	DRAWING TITLE COVER SHEET
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE					
A	DETAILED DESIGN	JS	JS	HW / DH	14/08/2026	SIGNED			PROJECT LOOP ROAD CULVERT GLENGARRY - TAS	DATUMS: AHD / MGA
		JS	JS	HW / DH	15/06/2026	DATE			STATUS DETAILED DESIGN	CLIENT No. -
								© 2022 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.		
								pitt&sherry pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309		
								DRAWING No. S-P.25.1315-00-CIV-DRG-1000		
								Aug. 14, 26 - 09:51:47 Name: S-P.25.1315-00-CIV-DRG-1000.dwg		

GENERAL						STATUTORY REQUIREMENTS						E5. TOLERANCE: IN THE HORIZONTAL PLANE THE EXTENT OF EXCAVATION SHALL BE WITHIN 25mm OF THE DESIGN POSITION. IN THE VERTICAL PLANE THE EXCAVATION SHALL NOT BE ABOVE THE DESIGN LEVEL AND NOT MORE THAN 25mm BELOW THE DESIGN LEVEL.						B2. UNLESS NOTED OTHERWISE FILL MATERIAL SHALL BE TYPE B SELECTED MATERIAL IN ACCORDANCE WITH DSG SPECIFICATION 204, CLAUSE 204.04 (C). IN ADDITION TO THIS CLAUSE, MINIMUM CBR SHALL BE 5%, PLASTICITY INDEX BETWEEN 6% AND 25%, MAXIMUM PARTICLE SIZE 75mm IN THE TOP 200mm OF FILL BENEATH THE PAVEMENT.					
G1. ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. ENGINEERS DRAWINGS MUST NOT BE SCALED.						SR1. COMPLY WITH ALL RELEVANT LAWS, REGULATIONS, CODES OF PRACTICE AND STANDARDS.						E6. AFTER COMPLETION OF EXCAVATION AND PRIOR TO PLACING ANY MATERIALS ON TOP OF THE EXCAVATED SURFACE, TEST ROLL THE SURFACE IN THE PRESENCE OF THE SUPERINTENDENT. TEST ROLL IN ACCORDANCE WITH DEPARTMENT OF STATE GROWTH SPECIFICATION 173.						B3. PLACE AND COMPACT EMBANKMENT FILL IN UNIFORM LAYER THICKNESS.					
G2. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. IN PARTICULAR, THE INLET END OF THE STRUCTURE SHALL BE ADEQUATELY STABILISED DURING PARTIAL REMOVAL OF EXISTING CUT OFF WALL, AND POURING OF INSITU CONCRETE LINING & HEADWALL.						SR2. PERMITS / APPROVALS - COMPLY WITH PERMITS AND APPROVALS PROVIDED. U.N.O OBTAIN ALL OTHER PERMITS AND APPROVALS REQUIRED.						GEOTEXTILE						B4. MAXIMUM COMPACTED LAYER THICKNESS IS 200mm.					
G3. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND AS APPROVED BY SUPERINTENDENT.						WORKPLACE HEALTH AND SAFETY						GT1. GEOTEXTILE SHALL BE IN ACCORDANCE WITH DSG SPECIFICATION 210.						B5. SEPARATION BETWEEN VIBRATING COMPACTION EQUIPMENT AND STRUCTURES SHALL BE IN ACCORDANCE WITH SPECIFICATION 204, TABLE 204.111.					
G4. UNLESS OTHERWISE NOTED ALL LEVELS ARE IN METERS AND ALL DIMENSIONS ARE IN MILLIMETERS.						WS1. COMPLY WITH THE WORK HEALTH AND SAFETY ACT 2012, WORK HEALTH AND SAFETY REGULATIONS 2012, LOCAL BYLAWS, CODES OF PRACTICE AND AUSTRALIAN STANDARDS.						GT2. GEOTEXTILE USED AS A DRAINAGE FILTER SHALL BE CLASS MODERATELY ROBUST, MINIMUM G RATING 900.						B6. COMPACTION REQUIREMENTS: FOR MATERIAL WITHIN 400mm OF A PAVEMENT LAYER THE MINIMUM CHARACTERISTIC DENSITY RATIO SHALL BE 98%. FOR MATERIAL MORE THAN 400mm BELOW A PAVEMENT LAYER THE MINIMUM CHARACTERISTIC DENSITY RATIO SHALL BE 95%.					
G5. U.N.O. DENOTES UNLESS NOTED OTHERWISE.						WS2. CARRY OUT RISK ASSESSMENTS AND PUT IN PLACE ACTIONS TO MITIGATE RISKS.						GT3. GEOTEXTILE USED AS A SEPARATION LAYER SHALL BE CLASS ROBUST, MINIMUM G RATING 1350.						B7. FREQUENCY OF COMPACTION TESTING: TEST EACH LOT. CONDUCT 6 TESTS FOR EACH LOT. A LOT IS THE AMOUNT OF WORK DONE IN ONE DAY OR A MAXIMUM OF 2000m².					
G6. ALL DIMENSIONS WHICH TIE INTO OR OTHERWISE RELATE TO EXISTING STRUCTURE SHALL BE VERIFIED ON SITE PRIOR TO START OF CONSTRUCTION BY THE CONTRACTOR.						WS3. PREPARE AND IMPLEMENT SAFE WORK METHOD STATEMENTS FOR HIGH-RISK ACTIVITIES.						GT4. GEOTEXTILE USED WITH ROCK FILL SHALL BE CLASS EXTREMELY ROBUST, MINIMUM G RATING 3000.						B8. BACKFILL LAYERS SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES OF THE CULVERT, WITH A MAXIMUM 600mm LEVEL DIFFERENCE TO AVOID DIFFERENTIAL LOADING. BACKFILLING AND COMPACTION SHALL COMMENCE AT THE WALL AND PROCEED AWAY FROM IT.					
G7. ANY TEMPORARY WORKS DESIGNS AND FLOOD MODELLING TO BE DETERMINED AND UNDERTAKEN PRIOR TO CONSTRUCTION WORKS.						ENVIRONMENTAL PROTECTION						SCOUR PROTECTION						B9. WINGWALLS: - FILL/BACKFILL MATERIAL SHALL BE PLACED 300mm THICK BEHIND WINGWALLS FOR THE LENGTH AND HEIGHT OF THE WALLS.					
G8. UNLESS NOTED OTHERWISE, ALL WORKS TO BE IN ACCORDANCE WITH LOCAL GOVERNMENT ASSOCIATION OF TASMANIA (L.G.A.T) STANDARD DRAWINGS OR DEPARTMENT OF STATE GROWTH (DSG) SPECIFICATIONS.						EP1. COMPLY WITH THE ENVIRONMENTAL MANAGEMENT AND POLLUTION CONTROL ACT 1994 AND LOCAL LAWS.						SP1. SCOUR PROTECTION ROCK TO BE PLACED ON EXTREMELY ROBUST GEOFABRIC.						PAVEMENT					
G9. TESTING SHALL BE BY A NATA ACCREDITED LABORATORY.						EP2. PROVIDE A SILT AND SEDIMENT CONTROL PLAN FOR APPROVAL. PREVENT SILT AND SEDIMENT FROM MOVING OFF THE SITE, INTO WATERWAYS AND INTO STORMWATER DRAINS. SILT AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH LGAT STANDARD DRAWING TSD-SW28-v3.						SP2. WHERE WATERWAYS HAVE BEEN RAISED AND LOWERED OR REDIRECTED, SCOUR PROTECTION SHALL ALSO BE PLACED IN THEIR DISTURBED AREAS OF WATERWAY BOTH UPSTREAM AND DOWNSTREAM.						P1. PAVEMENT SUPPLY AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH DEPARTMENT OF STATE GROWTH SPECIFICATION 304, 801 AND 804.					
G10. LIMIT OF WORKS IS UNO PROPERTY FENCE, CADASTRAL BOUNDARY AND / OR, 20m BEYOND EXTENT OF WORK IN ROAD RESERVE. TEMPORARILY MARK OR FENCE THE LIMIT OF WORKS.						EP3. DO NOT PARK OR STORE PLANT, EQUIPMENT OR MATERIALS OUTSIDE THE LIMIT OF WORKS.						SP3. SCOUR ROCK SHALL BE ANGULAR, IGNEOUS ROCK WITH A MINIMUM SPECIFIC GRAVITY OF 2.4 PLACE ROCK AT THE BASE OF THE SLOPE FIRST, THEN BUILD ROCKS UP THE SLOPE, PLACING ROCKS IN A STABLE WAY ON TOP OF EACH OTHER SO THEY ARE INTERLOCKING.						P2. LAYER THICKNESS: THE MAXIMUM THICKNESS OF A COMPACTED LAYER FOR THE BASE LAYER IS 175mm AND FOR THE SUB-BASE LAYER IT IS 200mm.					
G11. VIBRATION CONTROL - TAKE PRECAUTIONS TO PREVENT DAMAGE CAUSED BY VIBRATION DAMAGE TO OTHER PROPERTY OR ASSETS CAUSED BY THE WORKS - REPAIR AND MAKE GOOD ALL DAMAGE TO THE SATISFACTION OF THE OWNER.						EP4. TAKE PRECAUTIONS TO PREVENT VEHICLES DEPOSITING MUD, SOIL AND OTHER DEBRIS ON PUBLIC ROADS. CLEAN MUD, SOIL AND DEBRIS IF IT IS DEPOSITED ON ROADS.						SP4. ROCK FOUND ON SITE CAN BE REUSED WHERE IT MEETS THE ABOVE SPECIFICATIONS, AND IS NOT CURRENTLY BEING USED.						P3. COMPACTION - THE MINIMUM CHARACTERISTIC DRY DENSITY RATIO FOR THE BASE LAYER IS 98% AND FOR THE SUB-BASE LAYER IT IS 96% .					
G12. BLASTING IS NOT PERMITTED.						EP5. TAKE PRECAUTIONS TO PREVENT DUST BEING GENERATED FROM THE SITE BEING A HAZARD, DISTURBING, OR A NUISANCE TO NEIGHBOURING PROPERTIES.						SP5. ALL ROCKWORK IS TO BE CLOSELY SUPERVISED DURING PLACEMENT WITH HOLD POINTS FOR INSPECTION AT COMPLETION OF EACH STAGE PRIOR TO COMMENCING THE NEXT.						P4. TOLERANCE - THE MAXIMUM DEVIATION OF THE COMPLETED SURFACE FROM THE DESIGN SURFACE FOR THE BASE LAYER IT IS 5mm BELOW AND 10mm ABOVE. NO POINT UNDER A 1.2m STRAIGHT EDGE SHALL BE GREATER THAN 6mm. FOR THE SUB-BASE THE LAYER MAXIMUM DEVIATION OF THE COMPLETED SURFACE FROM THE DESIGN SURFACE IS 15mm ABOVE AND 30mm BELOW.					
G13. LIGHTING FIRES IS NOT PERMITTED.						EP6. TAKE PRECAUTIONS TO MINIMISE NOISE POLLUTION. FIT SOUND ABATEMENT DEVICES TO EQUIPMENT.						SP6. ROCKS TO BE PLACED WITH AT LEAST THREE POINTS OF CONTACT TO ACHIEVE A STABLE INTERLOCKED SURFACE FINISH.						P5. PRIOR TO SEALING THE MOISTURE CONTENT OF THE BASE LAYER SHALL NOT BE MORE THAN 60% OF THE OPTIMUM MOISTURE CONTENT.					
G14. DOCUMENTATION AND RECORDS - PROVIDE COPIES OF ALL TEST RESULTS AND MANUFACTURERS INFORMATION TO DEMONSTRATE COMPLIANCE.						EP7. DISPOSE OF WASTE IN DESIGNATED AREAS OR CART WASTE OFF SITE TO A LICENSED WASTE DISPOSAL SITE.						SP7. WHERE SCOUR ROCK NOMINATED IS D50 = 400mm, ROCK IS TO BE PER TYPE 6 - ARMOUR STONE PER DSG SPECIFICATION 713. ARMOUR STONE SHALL COMPLY WITH THE REQUIREMENTS OF TYPE 1 BEACHING, UNLESS SPECIFIED, AND ALL ARMOUR STONE SHALL HAVE A MASS OF BETWEEN 25 AND 250 KG AND AT LEAST 60% BY NUMBER SHALL BE OVER 75 KG. ROCKS SHALL BE OF SUCH SIZE THAT THE LAYER OF BEACHING IS NOT LESS THAN 600 mm THICK.						ASPHALT					
G15. AS CONSTRUCTED RECORDS - PROVIDE AS CONSTRUCTED DRAWINGS AFTER COMPLETION OF THE WORKS. AS CONSTRUCTED DRAWINGS TO BE PROVIDED IN DWG AND PDF FORMAT.						EP8. STORE FUELS, OILS AND CHEMICALS SO THAT ANY LEAKS ARE CONTAINED. DO NOT STORE FUELS. OILS AND CHEMICALS WHERE A LEAK CAN CAUSE ENVIRONMENTAL HARM. PROVIDE FUEL AND OIL SPILL KITS ON SITE AND CLEAN UP ANY LEAKS AND SPILLS.						SP8. WHERE SCOUR ROCK NOMINATED IS D50 = 600mm, ROCK IS TO BE PER TYPE 6 - ARMOUR STONE PER DSG SPECIFICATION 713. ARMOUR STONE SHALL COMPLY WITH THE REQUIREMENTS OF TYPE 1 BEACHING, UNLESS SPECIFIED, AND ALL ARMOUR STONE SHALL HAVE A MASS OF BETWEEN 50 AND 600 KG AND AT LEAST 60% BY NUMBER SHALL BE OVER 250 KG. ROCKS SHALL BE OF SUCH SIZE THAT THE LAYER OF BEACHING IS NOT LESS THAN 1000 mm THICK.						A1. ASPHALT SUPPLY AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH DEPARTMENT OF STATE GROWTH SPECIFICATION 407.					
INPUT INFORMATION						EP9. VEHICLES, PLANT AND EQUIPMENT SHALL BE CLEAN AND FREE OF WEEDS, PATHOGENS OR SOIL BEFORE ENTERING THE SITE. TAKE PRECAUTIONS TO PREVENT THE SPREAD OF WEEDS.						SP9. WHERE SCOUR ROCK NOMINATED IS D50 = 800mm, ROCK IS TO BE PER TYPE 6 - ARMOUR STONE PER DSG SPECIFICATION 713. ARMOUR STONE SHALL COMPLY WITH THE REQUIREMENTS OF TYPE 1 BEACHING, UNLESS SPECIFIED, AND ALL ARMOUR STONE SHALL HAVE A MASS OF BETWEEN 200 AND 1500 KG AND AT LEAST 60% BY NUMBER SHALL BE OVER 400 KG. ROCKS SHALL BE OF SUCH SIZE THAT THE LAYER OF BEACHING IS NOT LESS THAN 1200 mm THICK.						A2. ASPHALT TYPE - N.					
11. THESE WORKS HAVE BEEN BASED ON SURVEY UNDERTAKEN BY SURVEY & ALIGNMENT SERVICES ON 27 JANUARY 2026.						TRAFFIC CONTROL						SP12. GEOTEXTILE UNDER SCOUR PROTECTION ARMOUR STONE PLACED ADJACENT TO CULVERT CUTOFF WALL AND WINGWALL SHALL BE CONTINUED UP THE FACE OF EACH WALL TO THE TOP OF THE ROCK LEVEL.						A3. AGGREGATE SIZE - 14mm.					
12. UTILITY INFORMATION HAS BEEN BASED ON AVAILABLE INFORMATION FROM BEFORE YOU DIG AUSTRALIA. THE CONTRACTOR IS TO CONFIRM THE LOCATION OF EXISTING ASSETS PRIOR TO ANY WORKS.						TC1. UNDERTAKE TRAFFIC CONTROL IN ACCORDANCE WITH: i. THE TASMANIAN TRAFFIC ACT ii. THE TASMANIAN TRAFFIC (ROAD RULES) REGULATIONS iii. TRAFFIC CONTROL FOR WORKS ON ROADS, TASMANIAN GUIDE 2020 iv. AS 1742.3- 2019 - TRAFFIC CONTROL FOR WORKS ON ROADS v. 2019 AUSTROADS GUIDE TO TEMPORARY TRAFFIC MANAGEMENT (PART 1 - 10).						BACKFILLING						A4. BINDER TYPE - BITUMEN CLASS 170.					
13. INLET AND OUTLET DESIGN HAS BEEN BASED ON FLOOD IMPACT ASSESSMENT REPORT T-P.25.140-FLD-REP-001-REV00.						EXCAVATION						B1. EMBANKMENT FILL TO BE IN ACCORDANCE WITH DEPARTMENT OF DSG SPECIFICATION 204.						A5. COMPACTION - THE MINIMUM CHARACTERISTIC DENSITY RATIO IS 95%.					
SURVEY AND SET OUT						E1. EXCAVATION TO BE IN ACCORDANCE WITH DSG SPECIFICATION 204.												A6. SURFACE FINISH SHALL BE UNIFORM IN APPEARANCE, FREE FROM DRAG MARKS, OPEN TEXTURED AREAS, CRACKS AND ROLLER MARKS.					
S1. ALL SURVEY AND SETOUT TO BE UNDERTAKEN BY A LICENSED SURVEYOR.						E2. STRIP TOPSOIL TO A DEPTH OF AT LEAST 100mm. RETAIN ON SITE AND REUSE.												A7. TOLERANCE - THE MAXIMUM DEVIATION OF THE COMPLETED SURFACE FROM THE DESIGN SURFACE IS 0mm BELOW AND 5mm ABOVE. NO POINT UNDER A 3m STRAIGHT EDGE SHALL BE GREATER THAN 5mm.					

CONCRETE

_____ T(F0) _____ OF _____

5 CULT (CULTURAL)

5.5150

E GAS

E RAIL

E ROADF SEWERWD DRAIN (STORMWATER)

SW

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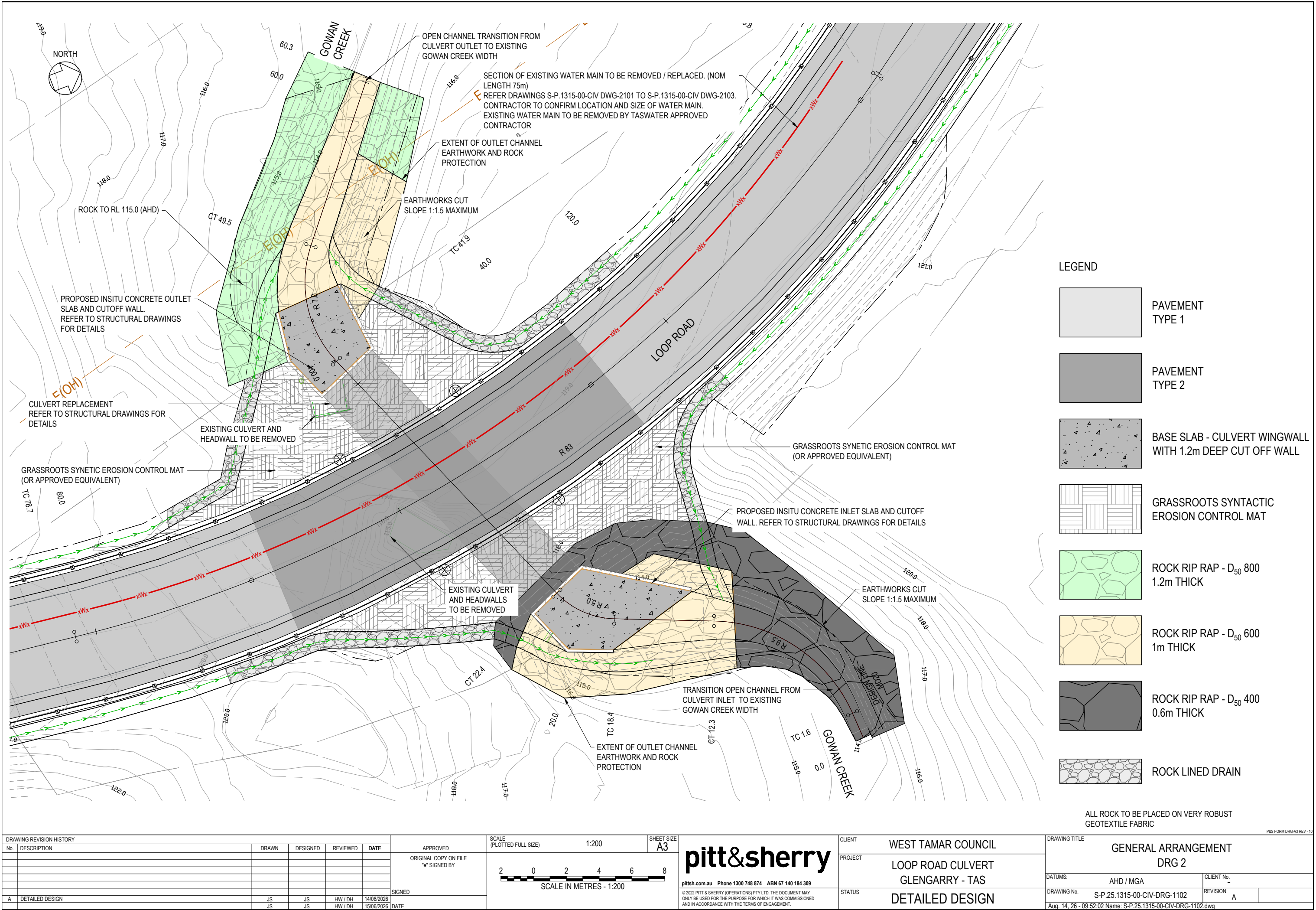
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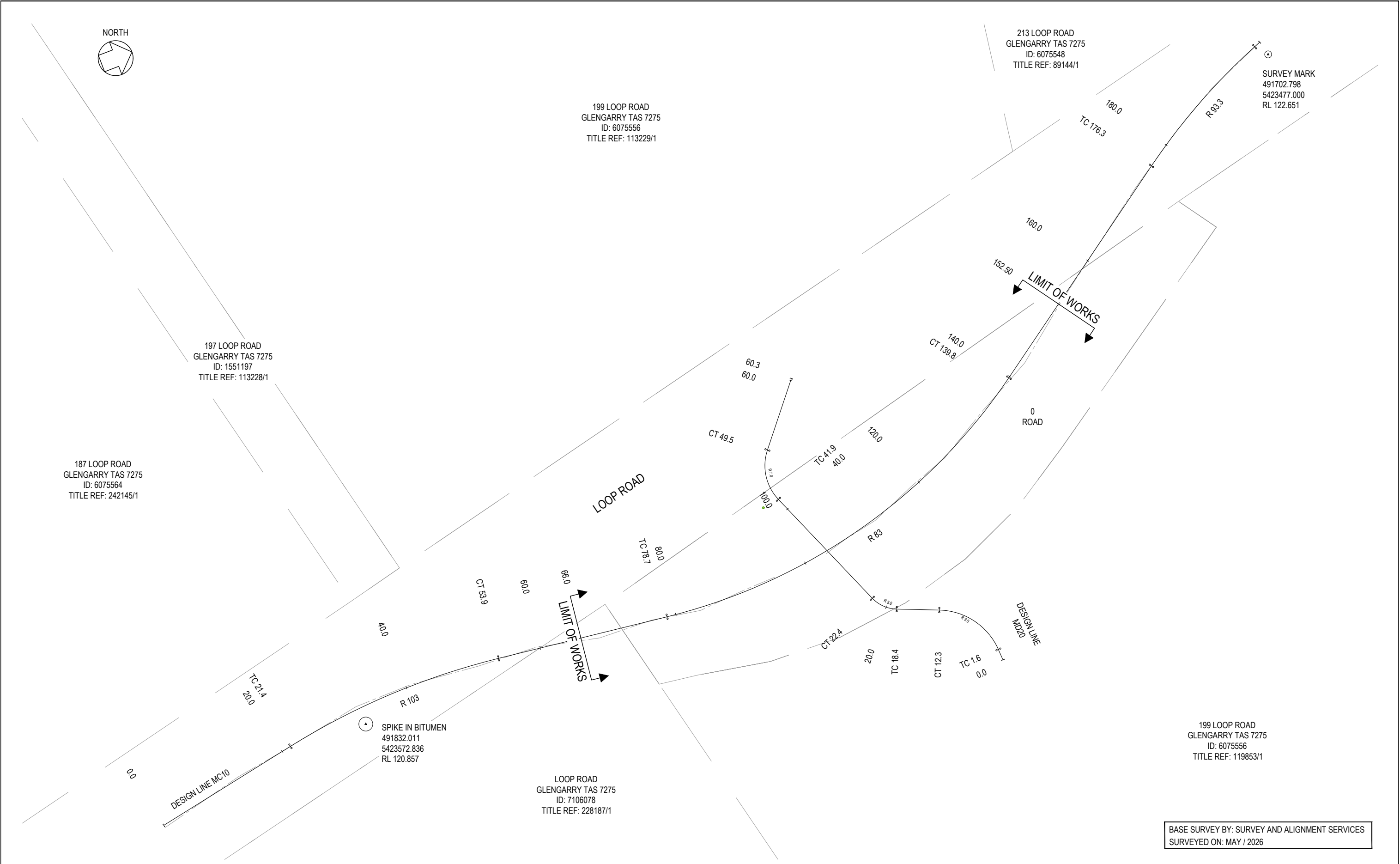
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D ROAD

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DRAWING REVISION HISTORY						APPROVED	SCALE (PLOTTED FULL SIZE) 1:500	SHEET SIZE A3	pitt&sherry pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309 © 2022 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	CLIENT WEST TAMAR COUNCIL	DRAWING TITLE ALIGNMENT AND SURVEY CONTROL							
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE													
											ORIGINAL COPY ON FILE "e" SIGNED BY	50020 SCALE IN METRES - 1:500	PROJECT LOOP ROAD CULVERT GLENGARRY - TAS	DATUMS: AHD / MGA			CLIENT No. -	
						SIGNED			STATUS DETAILED DESIGN	DRAWING No. S-P.25.1315-00-CIV-DRG-1121			REVISION A					
A	DETAILED DESIGN	JS	JS	HW / DH	14/08/2026	DATE												
		JS	JS	HW / DH	15/06/2026			Aug. 14, 26 - 09:52:05 Name: S-P.25.1315-00-CIV-DRG-1121.dwg										

CONTROL LINE SETOUT POINTS			
CHAINAGE	EASTING	NORTHING	LEVEL
CONTROL LINE MC10 (LOOP ROAD)			
0.000	491673.869	5423462.510	122.699
10.000	491682.355	5423467.799	122.689
20.000	491690.841	5423473.089	122.706
30.000	491699.511	5423478.067	122.778
40.000	491708.619	5423482.189	122.784
50.000	491718.083	5423485.408	122.596
60.000	491727.774	5423487.874	122.096
66.600	491733.596	5423489.311	121.644
70.000	491737.483	5423490.270	121.327
80.000	491747.189	5423492.676	120.456
88.388	491755.169	5423495.250	119.726
90.000	491756.684	5423495.799	119.592
100.000	491765.706	5423500.096	119.057
108.388	491772.871	5423504.446	118.999
110.000	491774.211	5423505.342	119.023
120.000	491781.987	5423511.622	119.166
130.000	491788.952	5423518.791	119.342
140.000	491795.006	5423526.745	119.518
150.000	491800.593	5423535.039	119.660
152.500	491801.984	5423537.112	119.695
160.000	491806.179	5423543.332	119.959
165.000	491808.973	5423547.479	120.117
170.000	491811.766	5423551.626	120.266
180.000	491817.413	5423559.879	120.541
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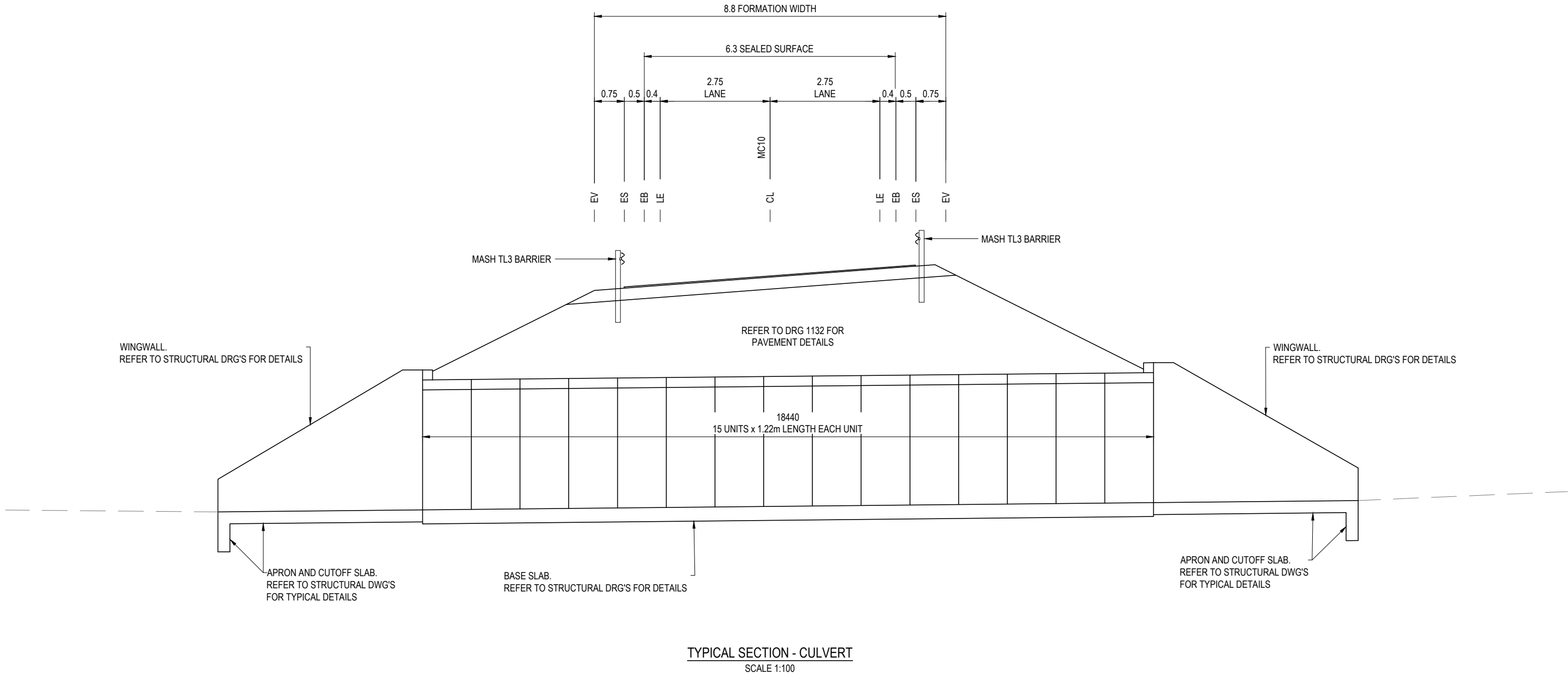
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CONTROL LINE SETOUT POINTS			
CHAINAGE	EASTING	NORTHING	LEVEL
CONTROL LINE MC20 (CULVERT)			
0.000	491794.040	5423486.194	114.005
5.000	491791.381	5423490.379	113.780
10.000	491787.032	5423492.727	113.555
13.341	491783.714	5423493.069	113.404
15.000	491782.058	5423493.172	113.396
20.000	491777.100	5423493.674	113.371
25.000	491773.423	5423497.003	113.346
30.000	491769.979	5423500.627	113.321
35.000	491766.535	5423504.252	113.296
40.000	491763.090	5423507.876	113.271
45.000	491760.253	5423511.922	113.246
50.000	491760.510	5423516.818	113.221
55.000	491762.100	5423521.559	113.196
60.000	491763.690	5423526.299	113.171
60.154	491763.739	5423526.445	113.170

CONTROL SETOUT POINTS				
POINT	EASTING	NORTHING	LEVEL	COMMENT
SURVEY CONTROL				
01	491832.011	5423572.836	120.857	SPIKE IN BITUMEN
02	491702.798	5423477.000	122.651	SURVEY MARK

DRAWING REVISION HISTORY						APPROVED		SCALE (PLOTTED FULL SIZE)	NTS	SHEET SIZE A3	pitt&sherry pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309 © 2022 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	CLIENT	WEST TAMAR COUNCIL		DRAWING TITLE		ALIGNMENT AND SURVEY CONTROL CONTROL POINTS	
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE	ORIGINAL COPY ON FILE "e" SIGNED BY				PROJECT		LOOP ROAD CULVERT GLENGARRY - TAS						
										SIGNED		STATUS	DETAILED DESIGN		DATUMS: AHD / MGA		CLIENT No. -	
													DATE		DRAWING No. S-P.25.1315-00-CIV-DRG-1125		REVISION A	
A	DETAILED DESIGN	JS	JS	HW / DH	14/08/2026													
		JS	JS	HW / DH	15/06/2026											Aug. 14, 26 - 09:52:07 Name: S-P.25.1315-00-CIV-DRG-1125.dwg		



DRAWING REVISION HISTORY					
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
A	DETAILED DESIGN	JS	JS	HW / DH	14/08/2026
		JS	JS	HW / DH	15/06/2026

APPROVED
ORIGINAL COPY ON FILE "e" SIGNED BY
SIGNED
DATE

SCALE
(PLOTTED FULL SIZE)

1:100

SHEET SIZE
A3

10 0 1 2 3 4

SCALE IN METRES - 1:100

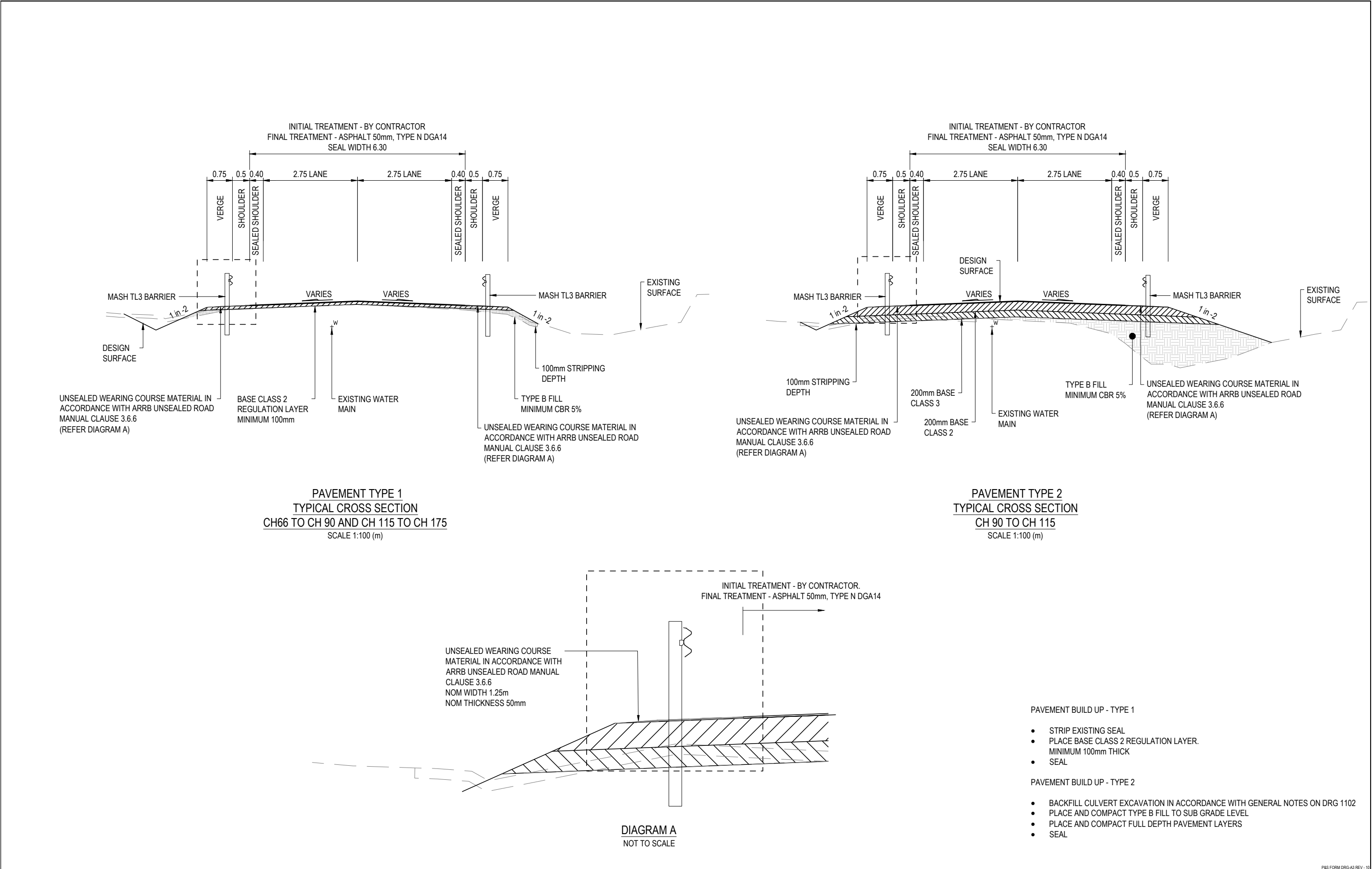
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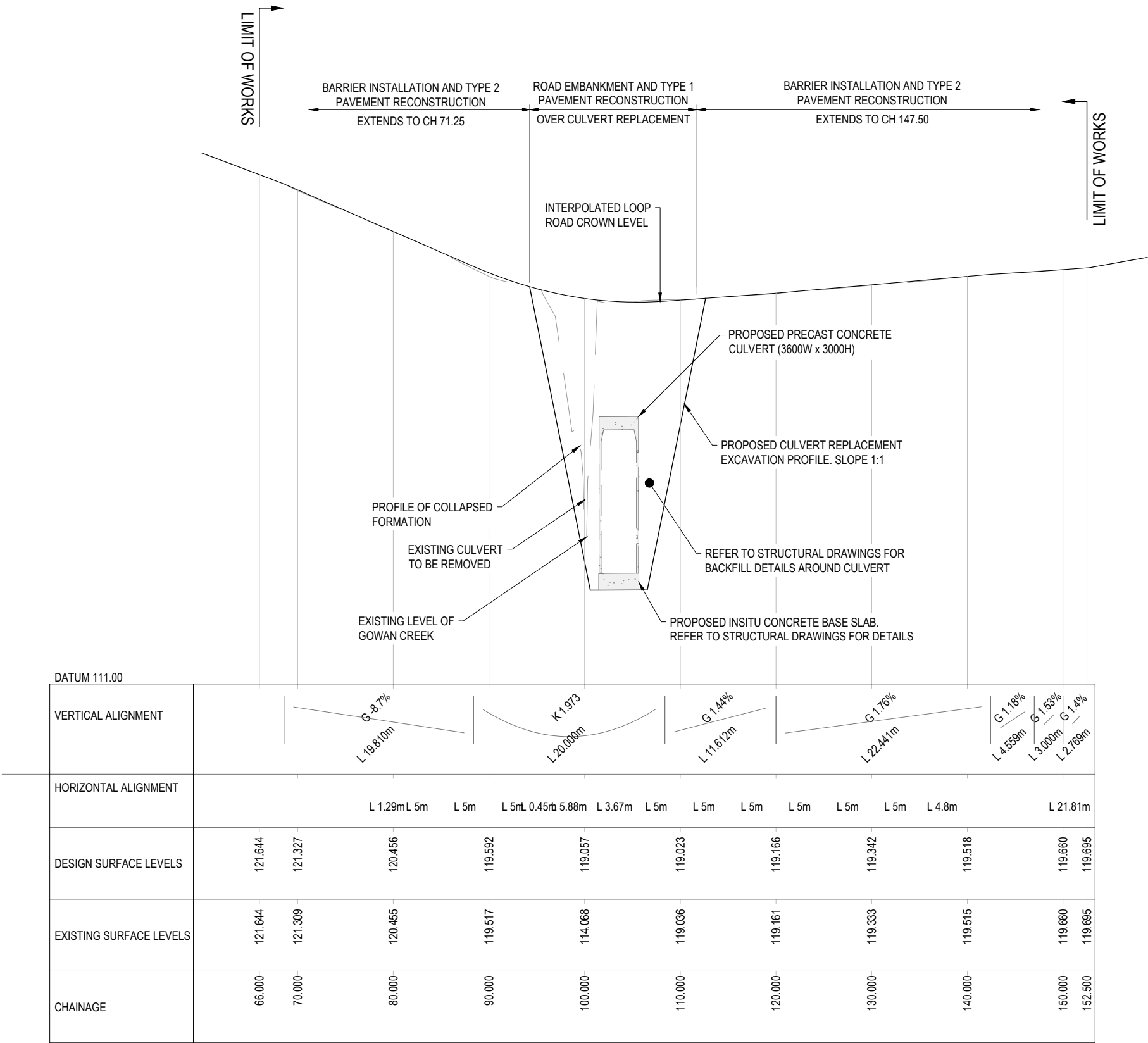
CLIENT	WEST TAMAR COUNCIL
PROJECT	LOOP ROAD CULVERT GLENGARRY - TAS
STATUS	DETAILED DESIGN

DRAWING TITLE			TYPICAL SECTIONS CULVERTS
DATUMS:	AHD / MGA	CLIENT No.	-
DRAWING No.	S-P.25.1315-00-CIV-DRG-1131	REVISION	A
Aug. 14, 26 - 09:56:42 Name: S-P.25.1315-00-CIV-DRG-1131.dwg			



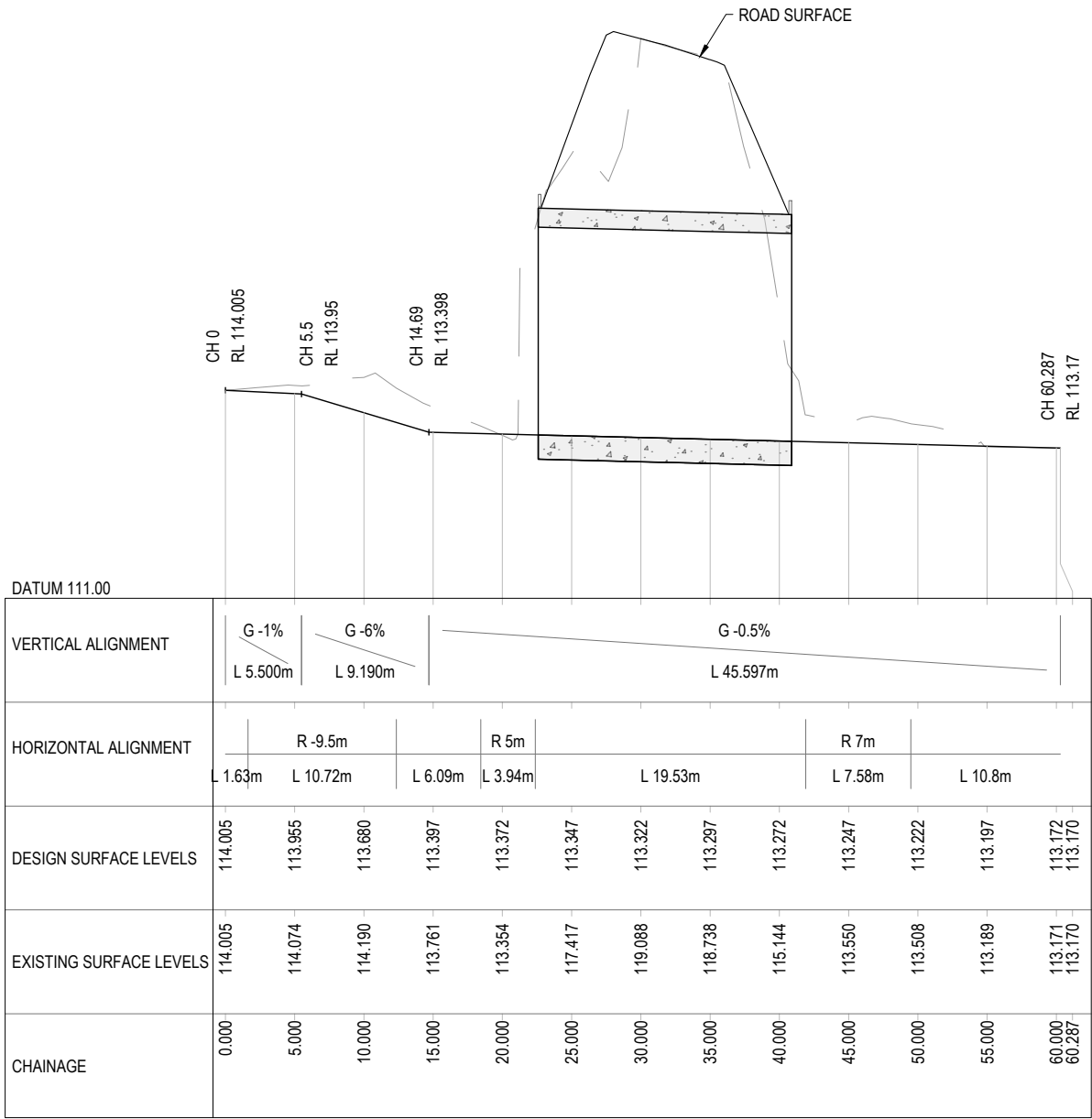
- PAVEMENT BUILD UP - TYPE 1
- STRIP EXISTING SEAL
 - PLACE BASE CLASS 2 REGULATION LAYER. MINIMUM 100mm THICK
 - SEAL
- PAVEMENT BUILD UP - TYPE 2
- BACKFILL CULVERT EXCAVATION IN ACCORDANCE WITH GENERAL NOTES ON DRG 1102
 - PLACE AND COMPACT TYPE B FILL TO SUB GRADE LEVEL
 - PLACE AND COMPACT FULL DEPTH PAVEMENT LAYERS
 - SEAL

DRAWING REVISION HISTORY					APPROVED ORIGINAL COPY ON FILE "e" SIGNED BY SIGNED DATE	SCALE (PLOTTED FULL SIZE)	NTS	SHEET SIZE A3	pitt&sherry pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309 © 2022 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	CLIENT	WEST TAMAR COUNCIL			DRAWING TITLE						
No.	DESCRIPTION									DRAWN	DESIGNED	REVIEWED	DATE	PROJECT	LOOP ROAD CULVERT GLENGARRY - TAS			TYPICAL SECTIONS ROAD		
																		DATUMS:		
																		CLIENT No.		
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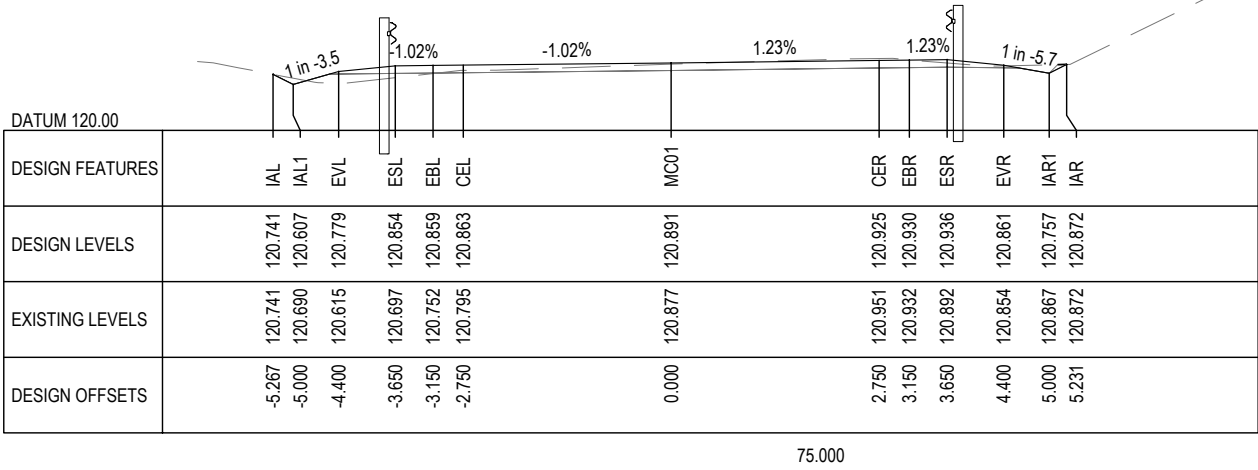
LONGITUDINAL SECTION MC10
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

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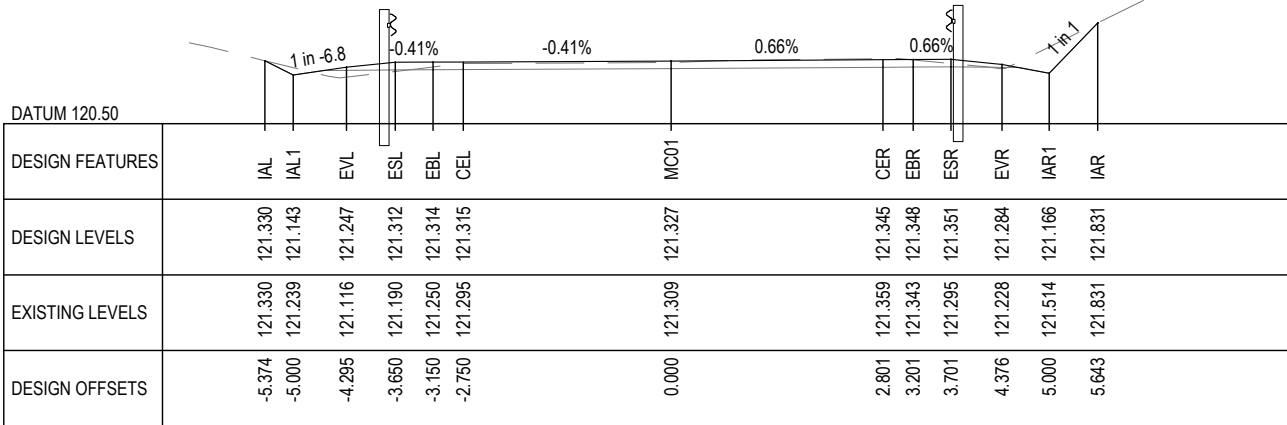


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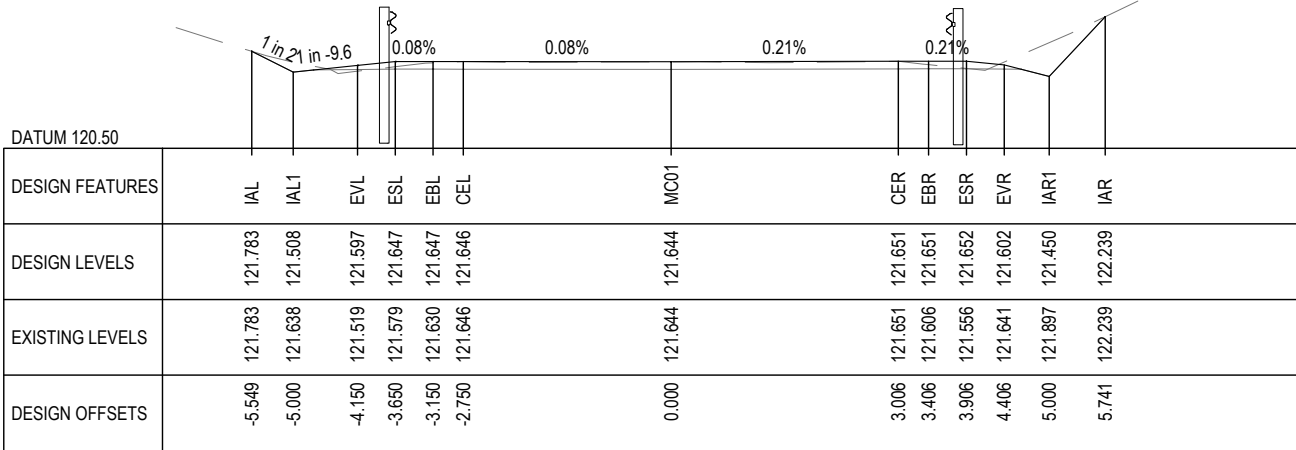
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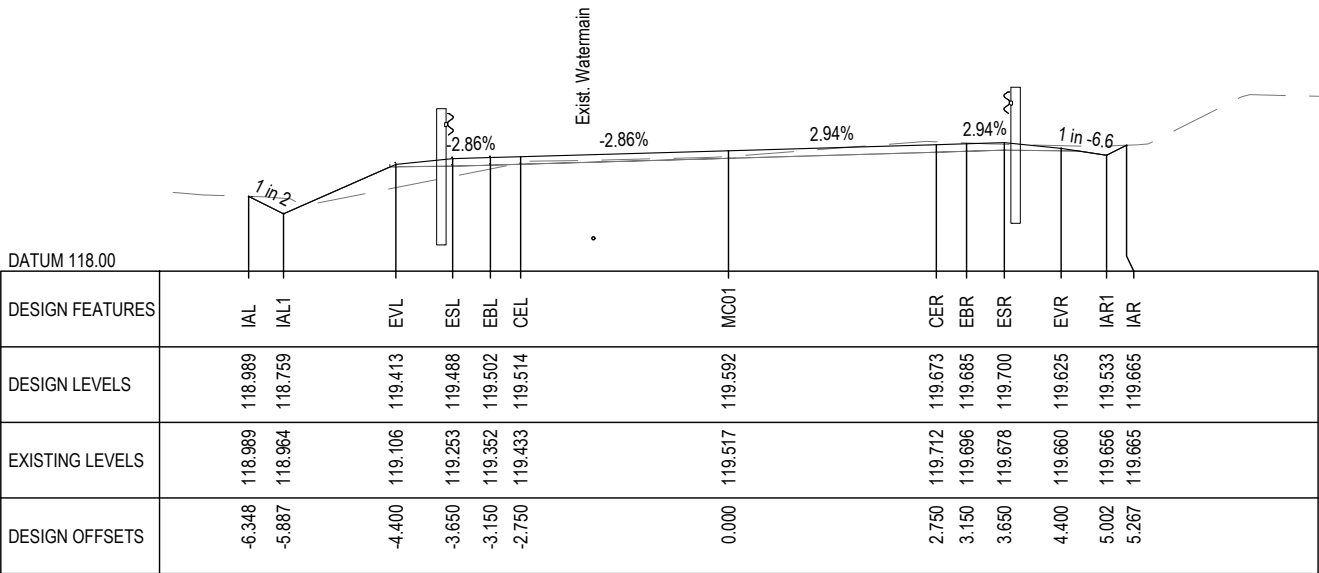
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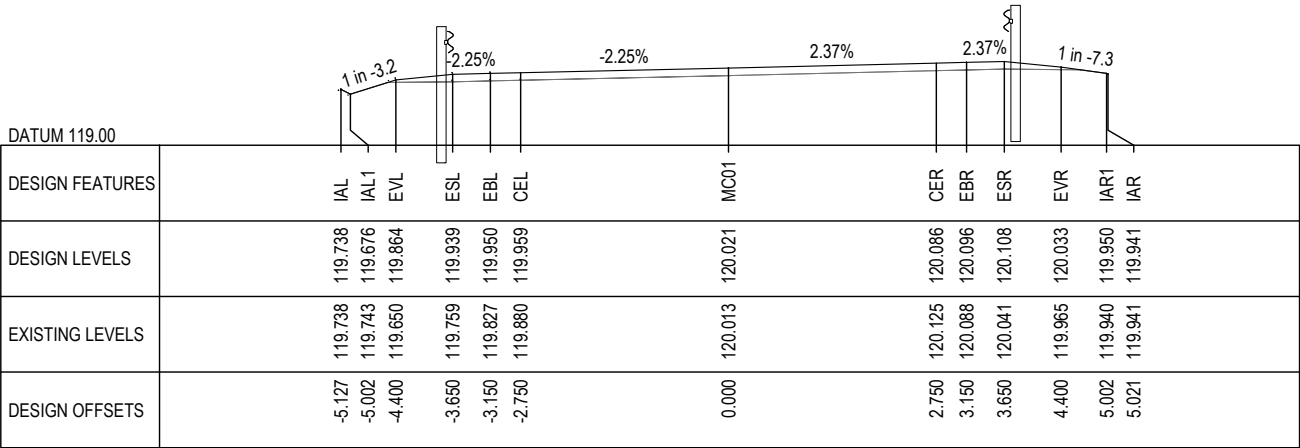
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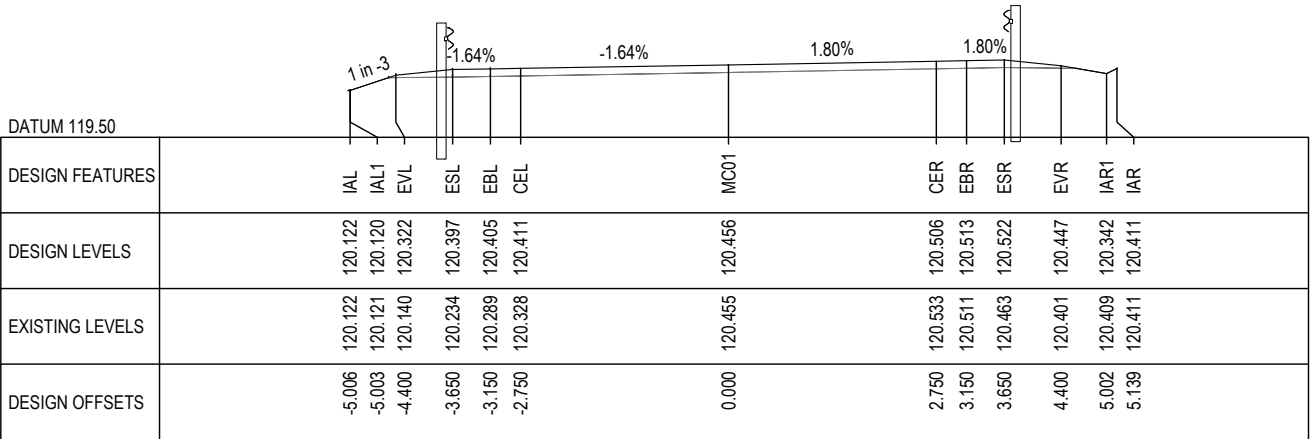
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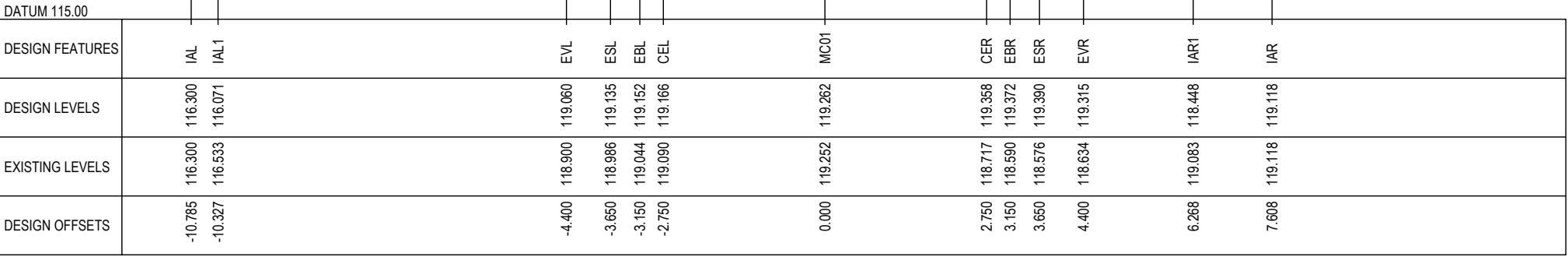
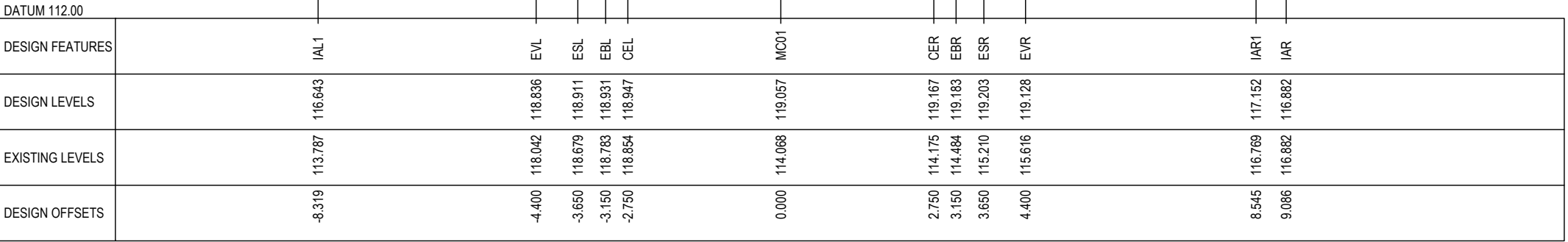


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80.000

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A	DETAILED DESIGN	JS	JS	HW / DH	14/08/2026	DATE	SCALE IN METRES - 1:100		STATUS	DETAILED DESIGN	
		JS	JS	HW / DH	15/06/2026						



DRAWING REVISION HISTORY					
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
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APPROVED

ORIGINAL COPY ON FILE
"e" SIGNED BY

SIGNED

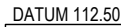
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SCALE (PLOTTED FULL SIZE)	1:100	SHEET SIZE A3

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CLIENT	WEST TAMAR COUNCIL
PROJECT	LOOP ROAD CULVERT GLENGARRY - TAS
STATUS	DETAILED DESIGN

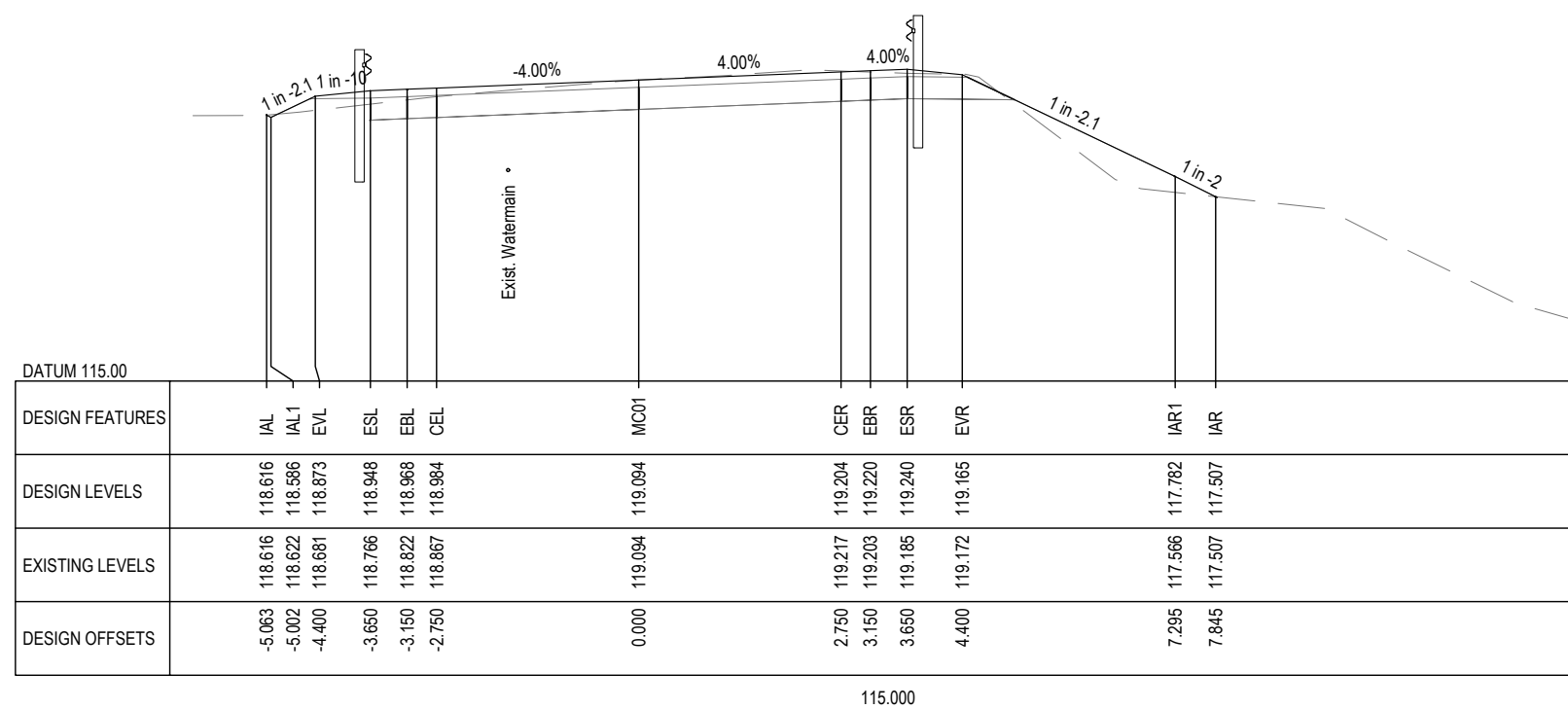
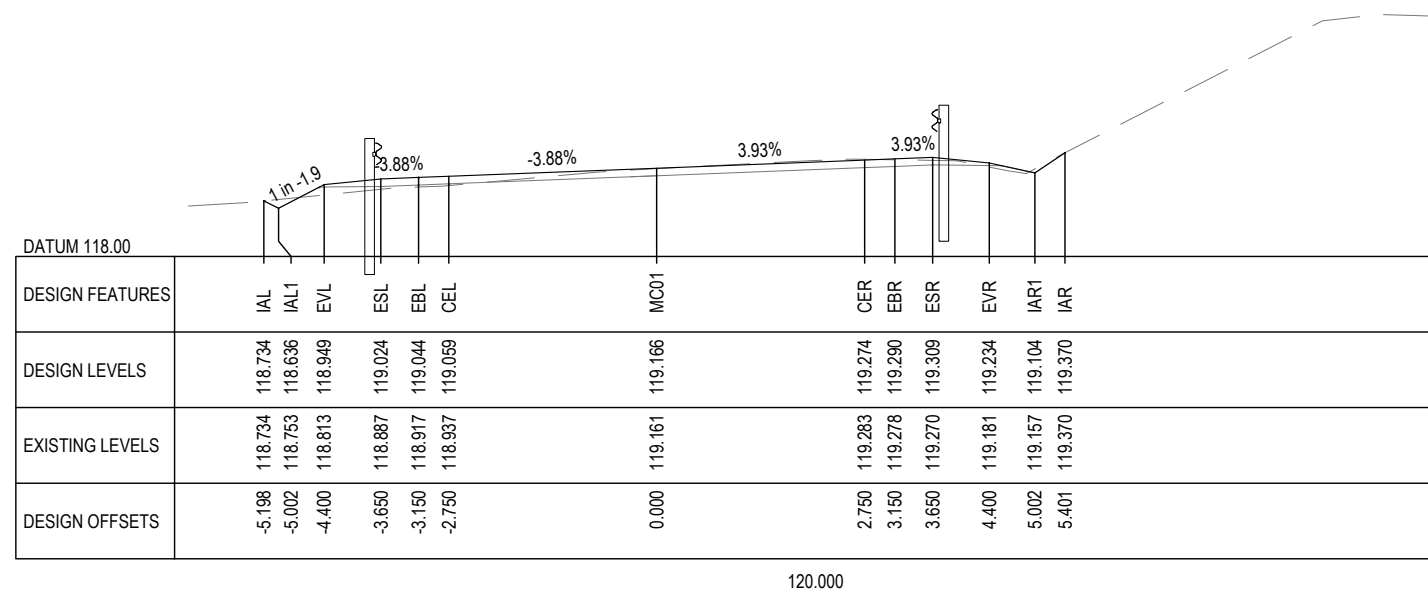
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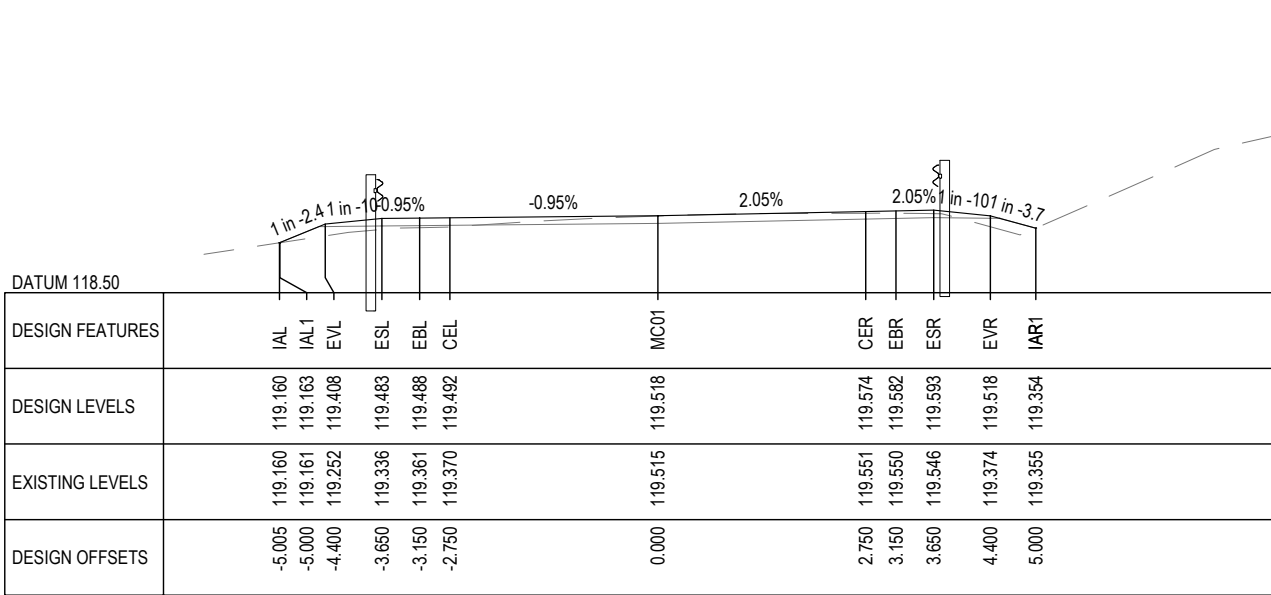
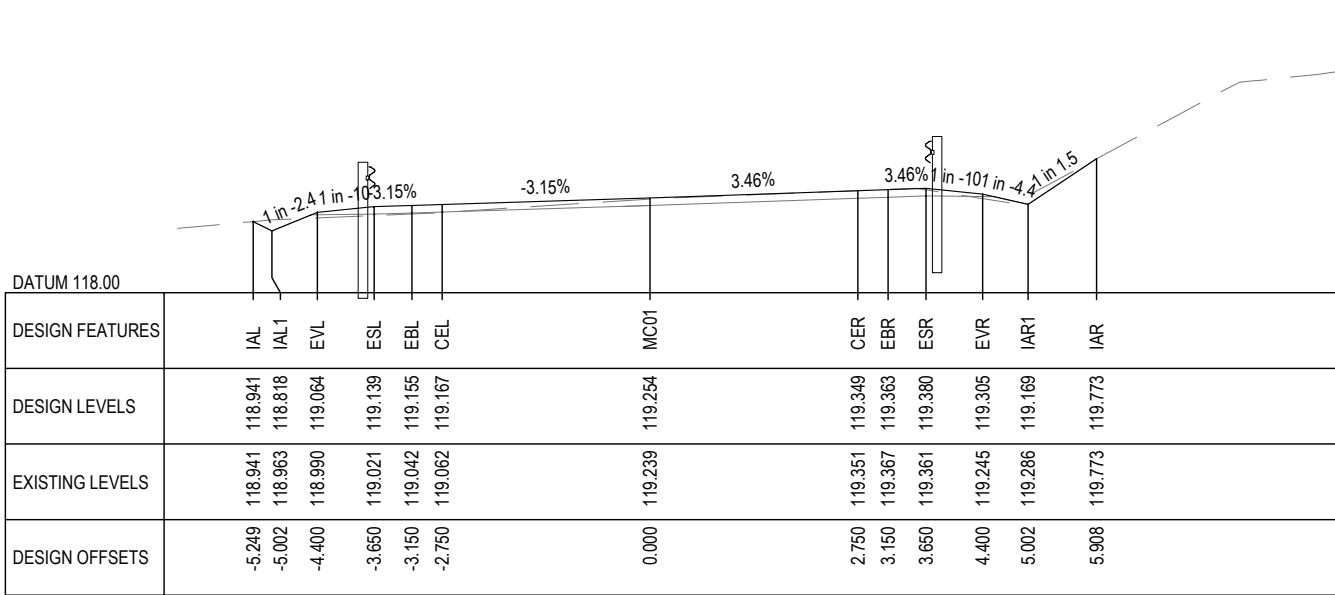
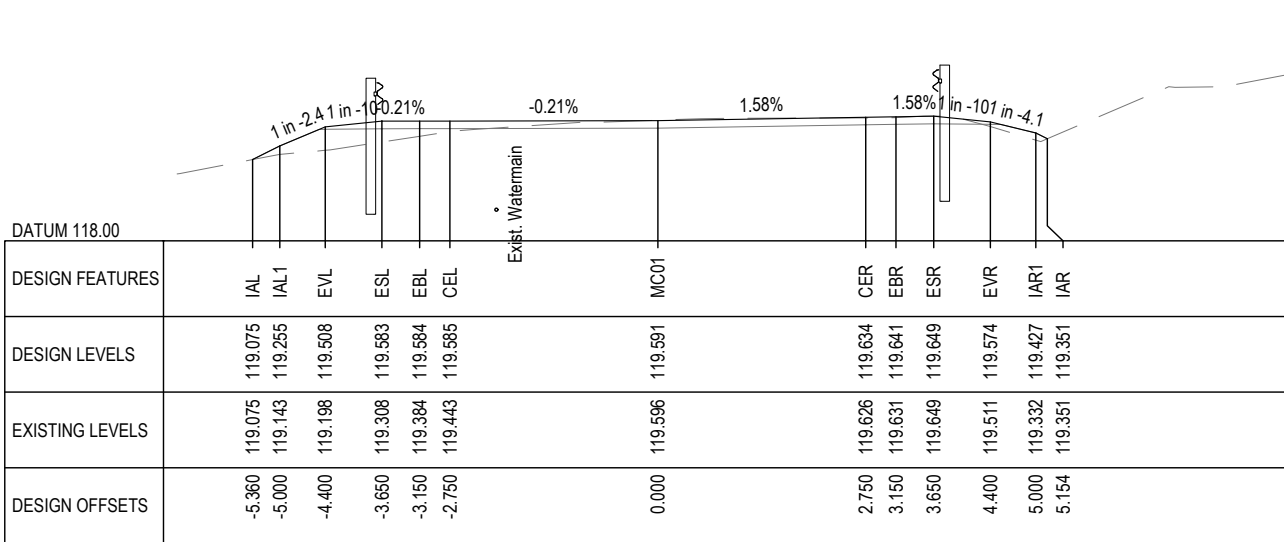
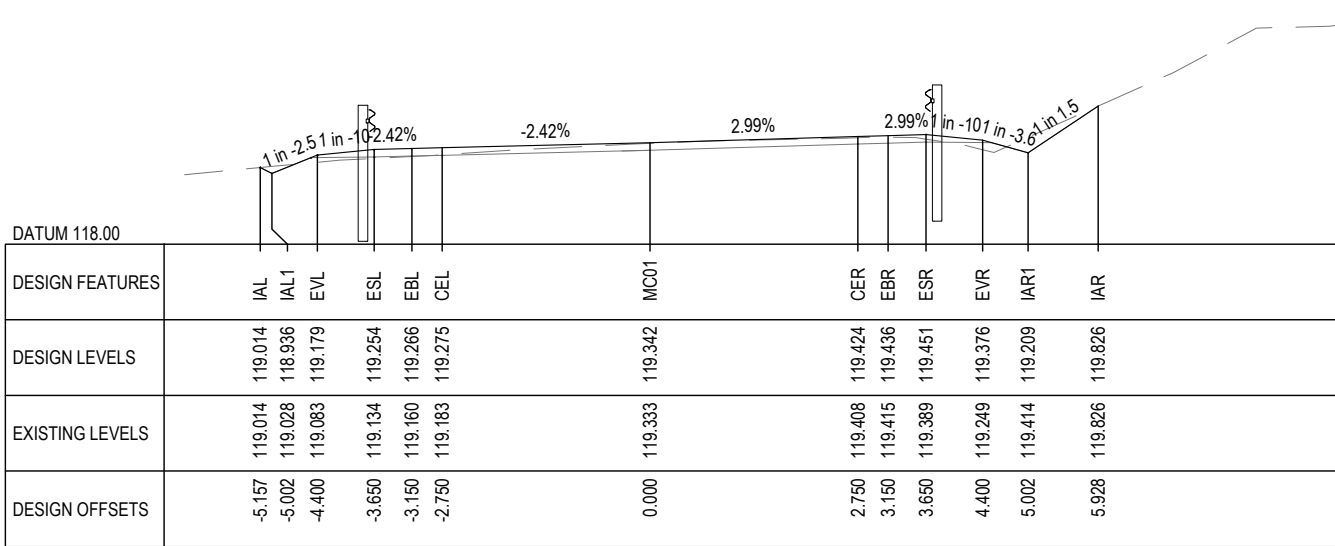
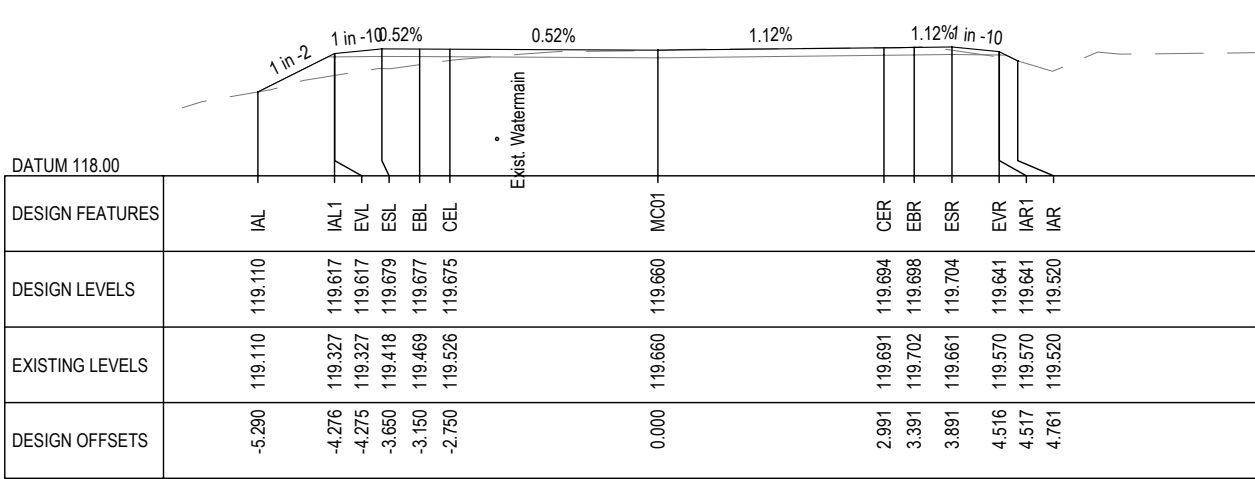
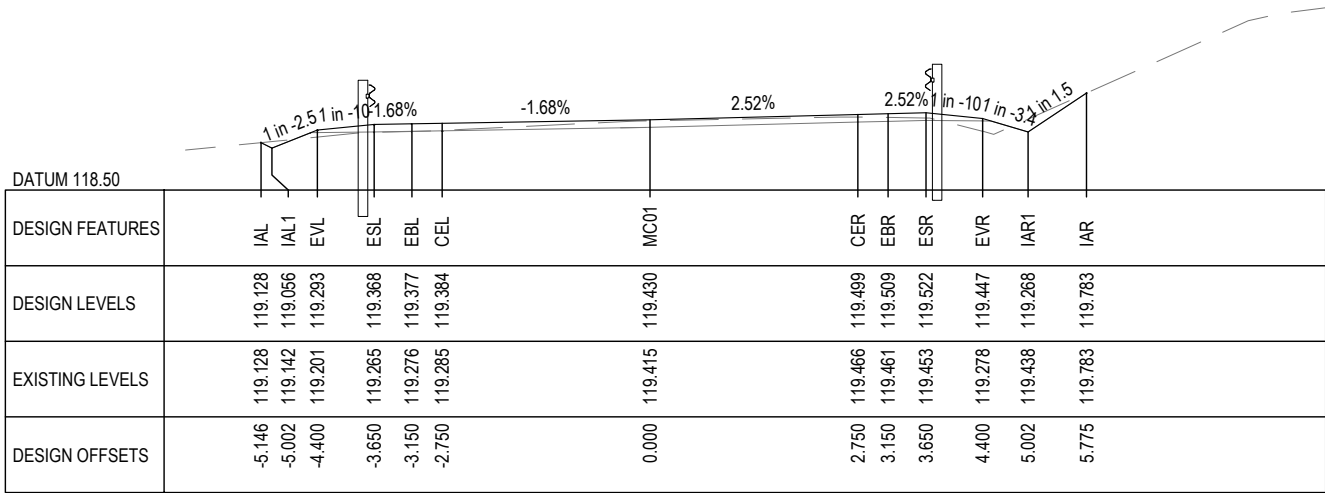
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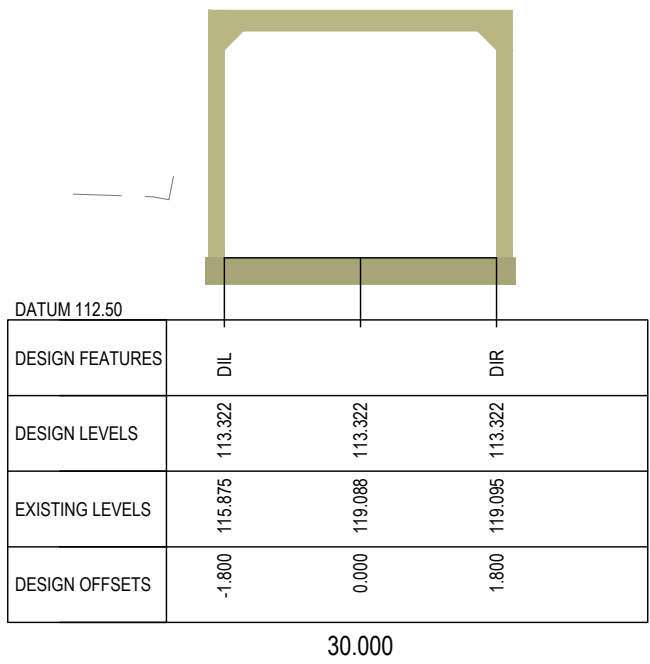
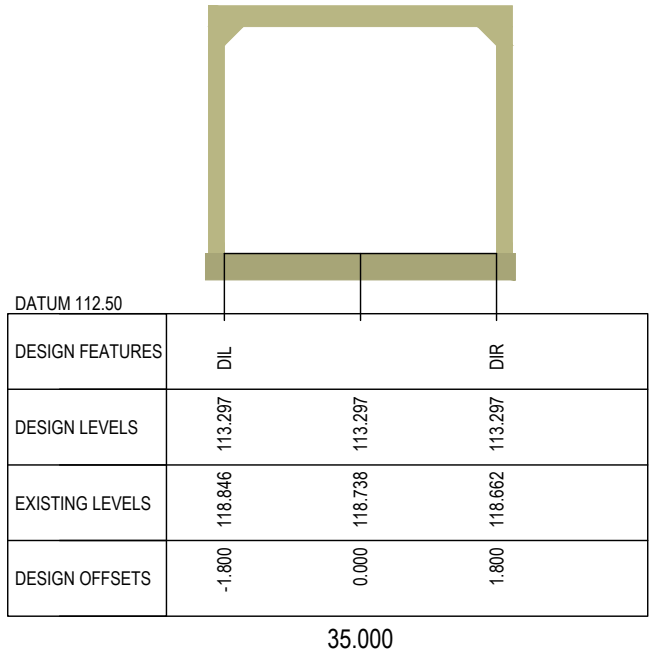
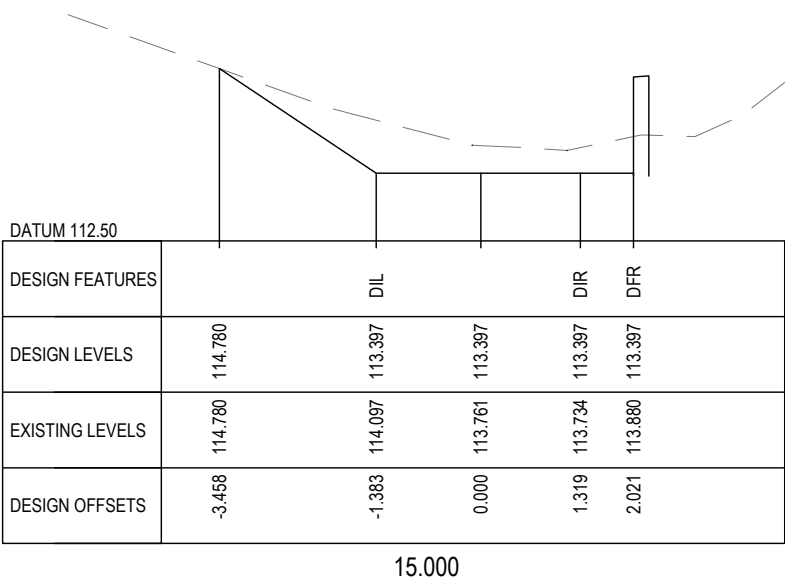
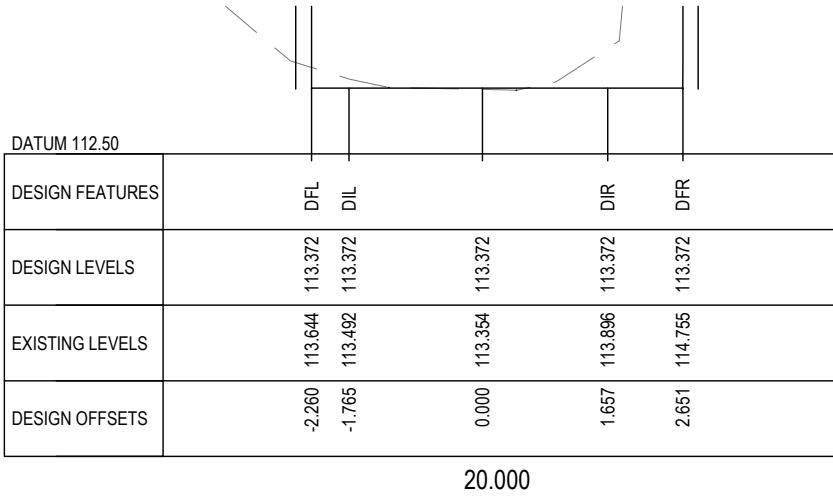
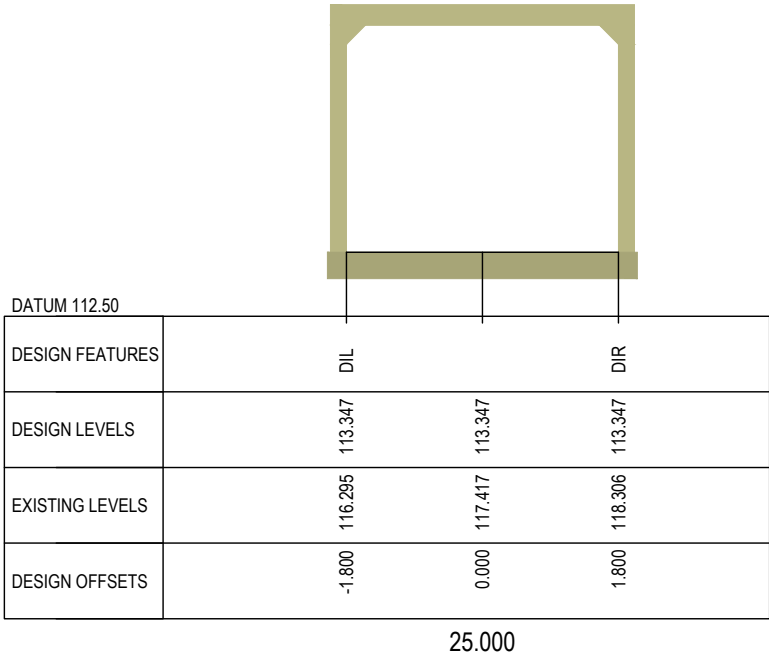
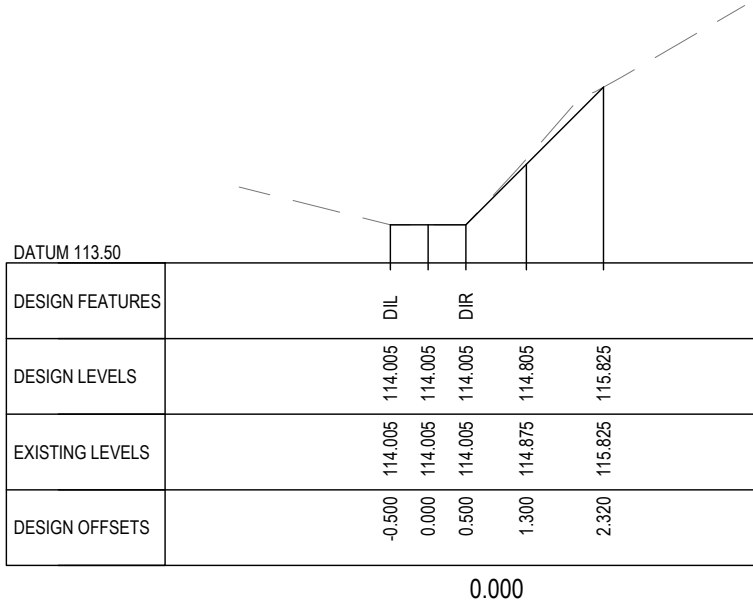
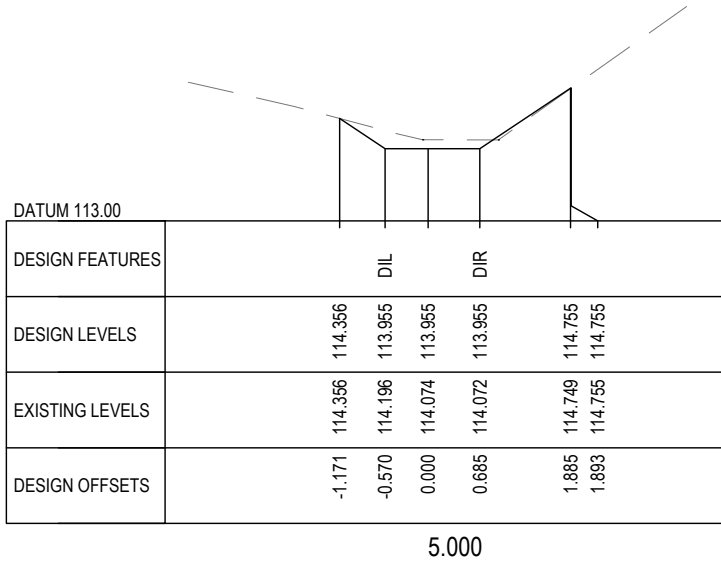
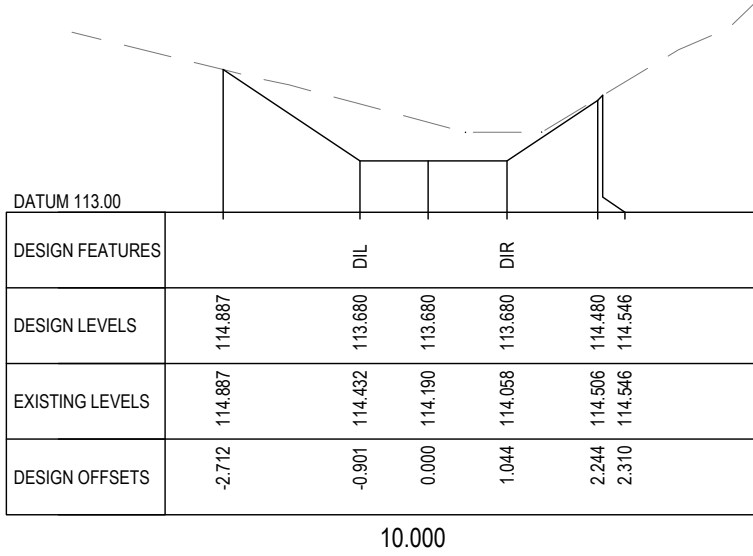


DRAWING REVISION HISTORY						APPROVED	SCALE (PLOTTED FULL SIZE) 1:100	SHEET SIZE A3	 pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309 © 2022 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	CLIENT WEST TAMAR COUNCIL	DRAWING TITLE CROSS SECTIONS DRG 3							
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE													
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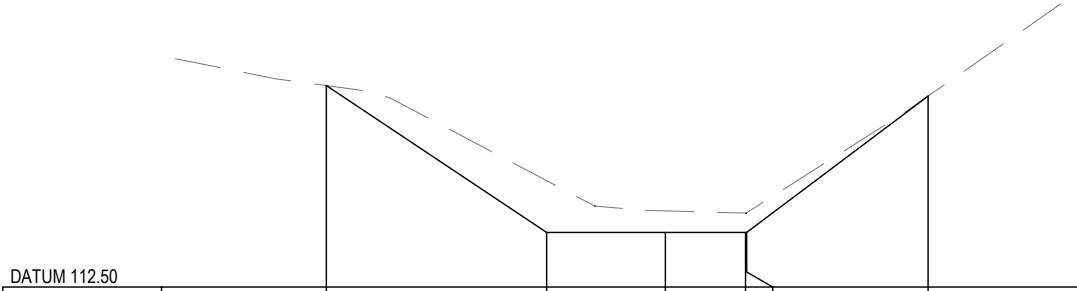


DRAWING REVISION HISTORY						APPROVED	SCALE (PLOTTED FULL SIZE) 1:100	SHEET SIZE A3	 pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309 © 2022 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	CLIENT WEST TAMAR COUNCIL	DRAWING TITLE CROSS SECTIONS DRG 4			
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE									
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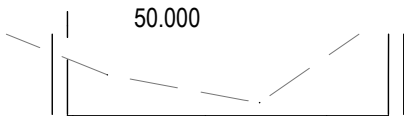




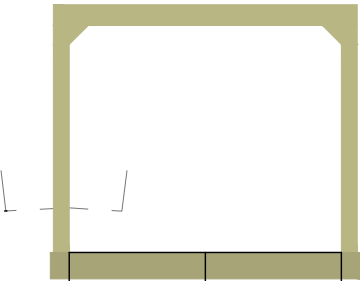
P&S FORM DRG-A3 REV - 10



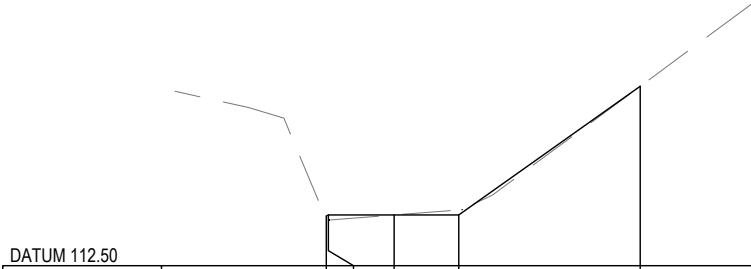
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DESIGN OFFSETS	-4.484	-1.570	0.000	1.061	1.076	3.476



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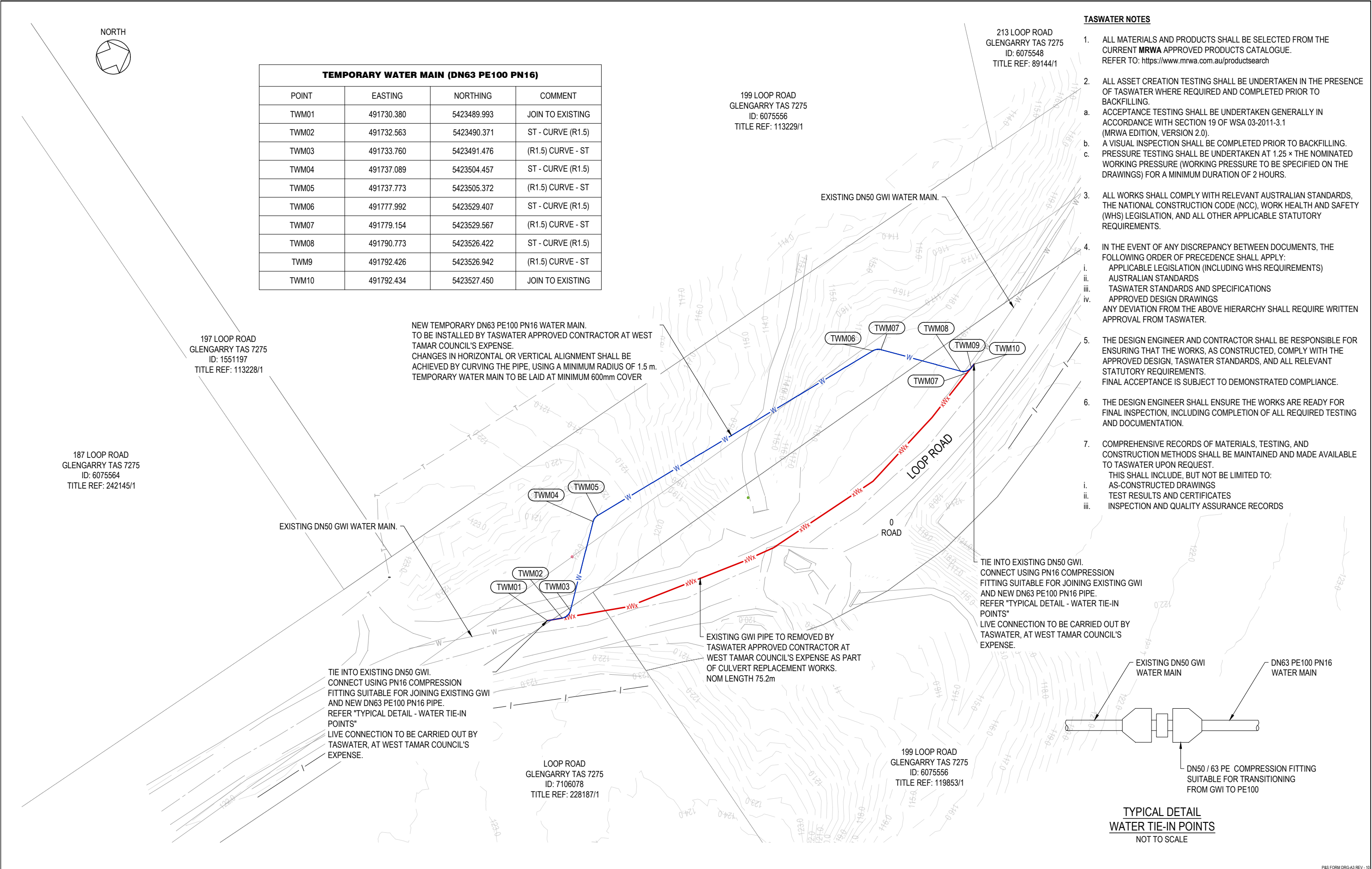


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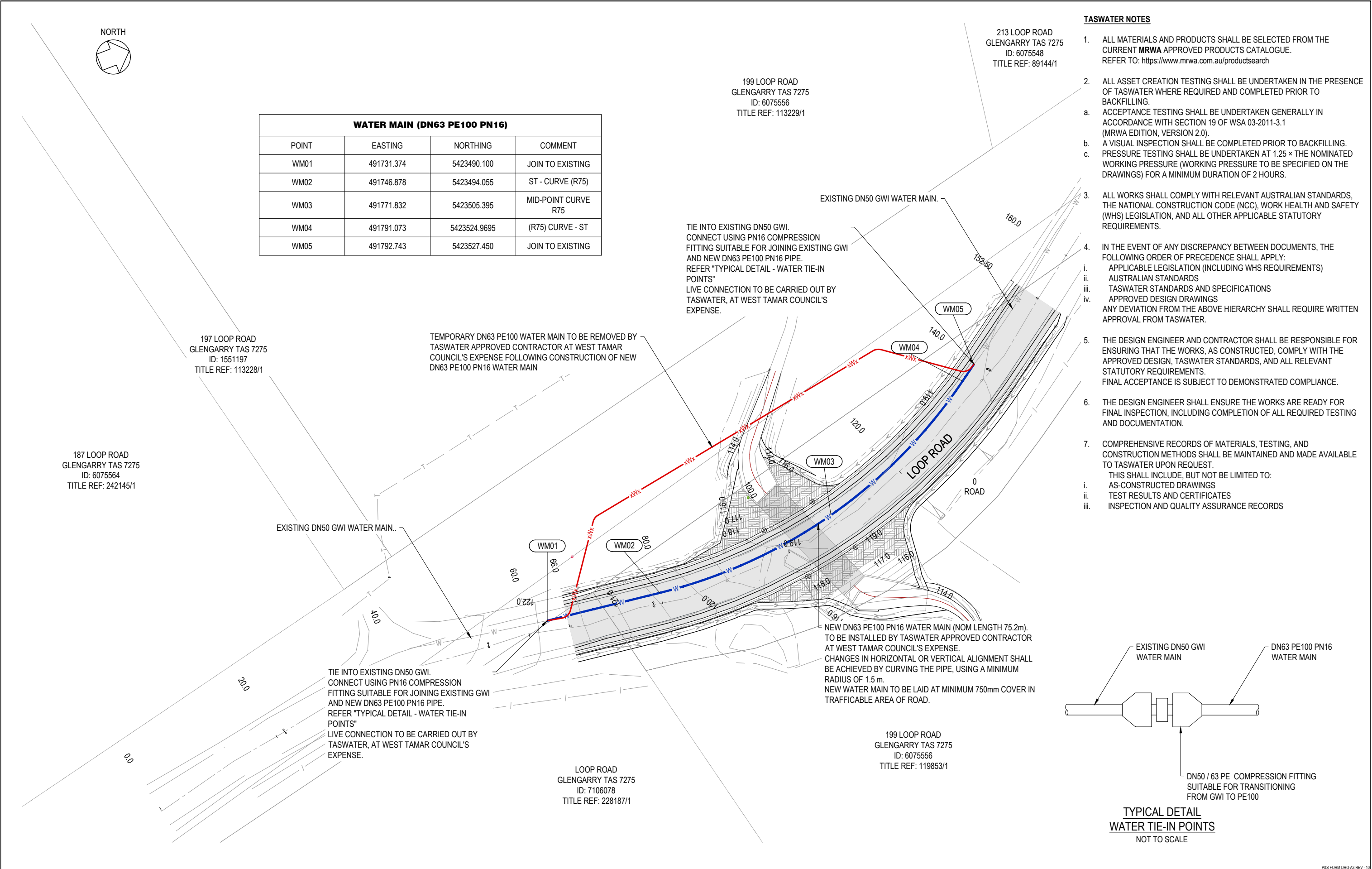


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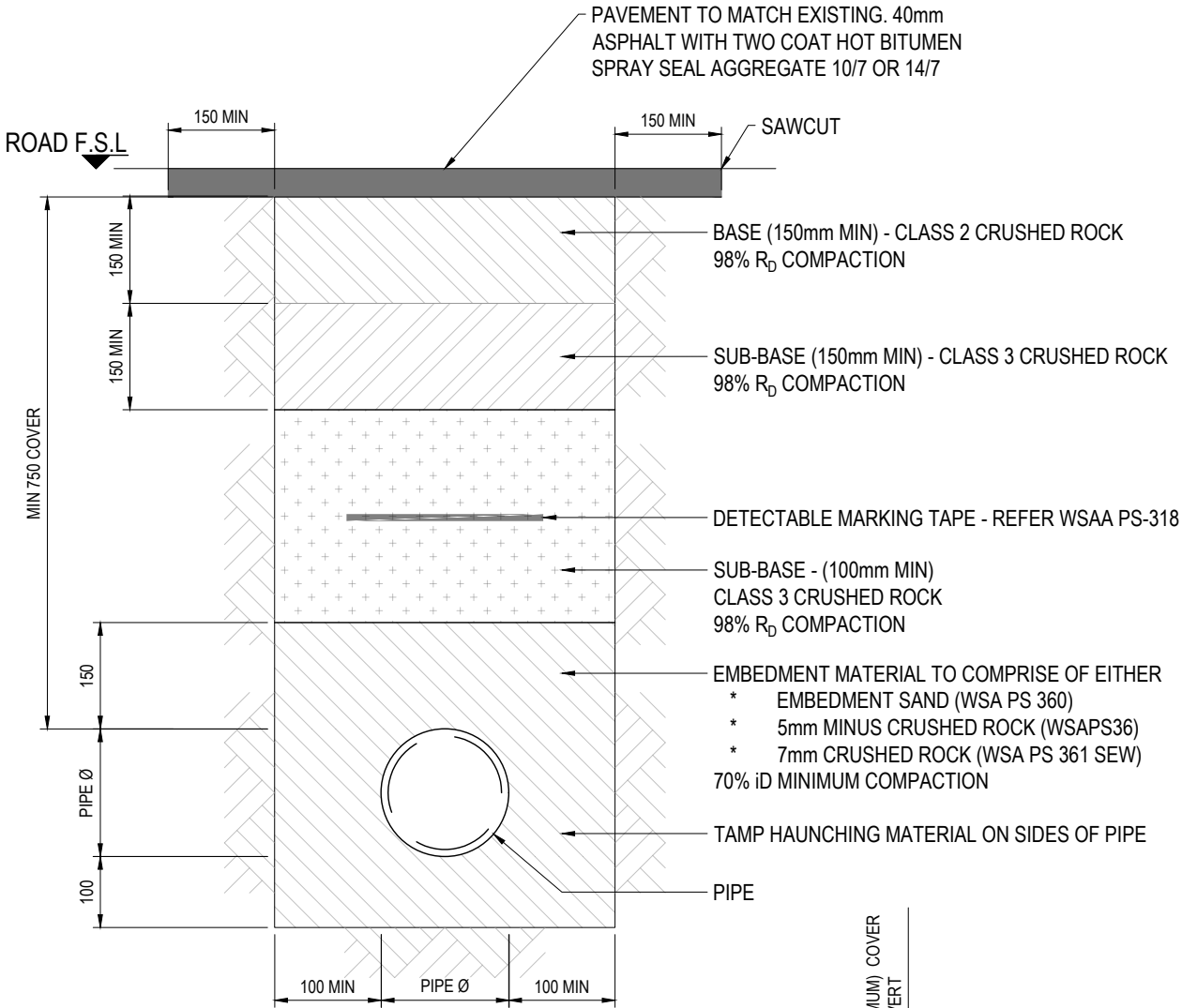
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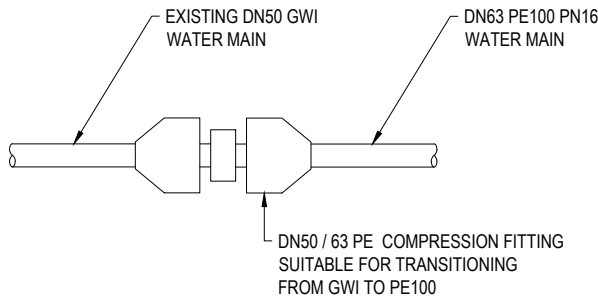
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No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE					DATUMS: (H) GDA 2020 - MGA 55 (V) AHD83			CLIENT No. -	
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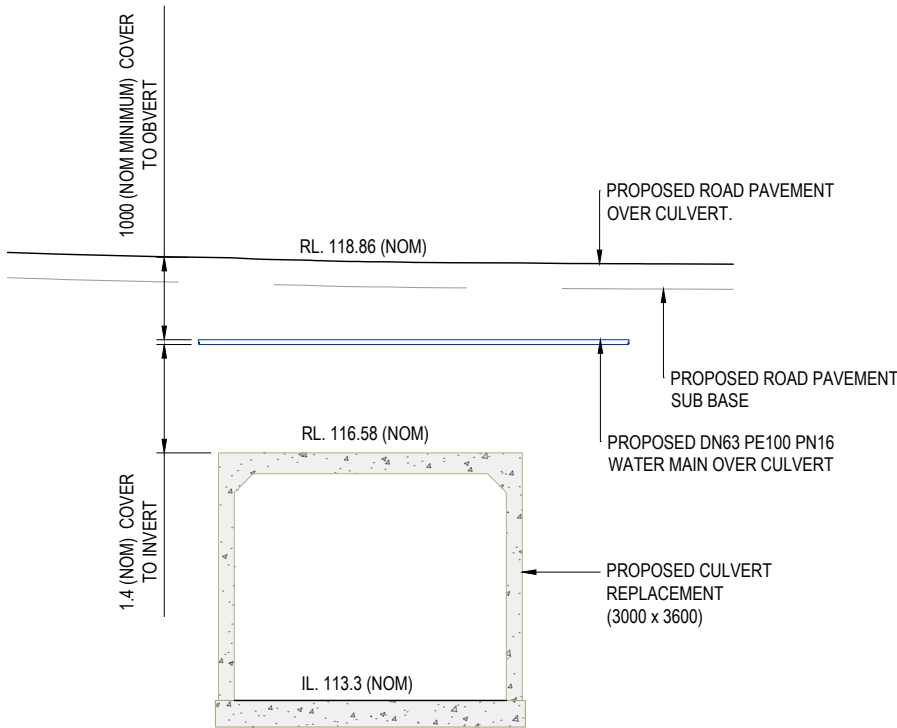
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TYPICAL DETAIL
WATERMAIN TRENCH
NOT TO SCALE



TYPICAL DETAIL
WATER TIE-IN POINTS
NOT TO SCALE



TYPICAL SECTION
WATERMAIN / CULVERT CROSSING
SCALE 1:100

NOTES - CONSTRUCTION

- CON1. ALL WORKS IN GENERAL TO BE CARRIED OUT IN ACCORDANCE WITH:
- * WSA 03-2011-3.1, MRWA VERSION 2.0
 - * TASWATER'S SUPPLEMENT TO WSAA WATER SUPPLY CODE
 - * PIPE SUPPLIER'S INSTALLATION MANUAL AND SPECIFICATIONS.
- CON2. CONSTRUCTION OF ALL TASWATER WATER INFRASTRUCTURE TO BE COMPLETED BY TASWATER APPROVED CONTRACTOR AT THE DEVELOPERS COST.
- CON3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONFIRM LOCATION, MATERIAL AND SIZE OF EXISTING SERVICES.
- CON4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONFIRM SET OUT POINTS, INCLUDING EASTINGS, NORTHINGS AND ELEVATION FOR SUITABILITY OF FITTINGS AT TIE IN POINTS.
- CON5. THE CONTRACTOR SHALL ENSURE THAT ALL PIPE, FITTINGS AND OTHER MATERIALS NECESSARY TO COMPLETE THE WORKS ARE ONSITE AND AVAILABLE DURING CONSTRUCTION.
- CON6. ALLOW MINIMUM 7 DAYS FOR CONCRETE THRUST BLOCKS TO CURE BEFORE BEING SUBJECT TO THRUST LOADS.
- CON7. THE CONTRACTOR IS TO DEVELOP INSTALLATION METHODOLOGY PROCESS IN CONJUNCTION WITH TASWATER TO COORDINATE WATER MAIN CLOSURES
- CON8. THE CONTRACTOR SHALL REFER ANY QUERIES TO THE SUPERVISING ENGINEER APPOINTED TO OVERSEE CONSTRUCTION OF TASWATER WATER INFRASTRUCTURE.
- CON9. CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT OF THE DN63 PE100 PN16 WATER MAIN SHALL BE ACHIEVED USING A MINIMUM RADIUS OF 1.5 m. WHERE THIS IS NOT ACHIEVABLE, PN16 COMPRESSION FITTINGS SHALL BE PROVIDED.
- CON10. ALL PRODUCTS AND MATERIALS SHALL BE APPROVED BY TASWATER AND LISTED ON THE MELBOURNE RETAIL WATER AGENCIES (MRWA) PRODUCT PORTAL: [HTTPS://WWW.MRWA.COM.AU/PRODUCTSEARCH](https://www.mrwa.com.au/productsearch)

GENERAL CONSTRUCTION METHODOLOGY

- CM1. CONSTRUCT THE TEMPORARY WATER MAIN IN ACCORDANCE WITH DRAWING S-P.25.1315-00-CIV-DRG-2101, EXCLUDING TIE-INS TO THE EXISTING WATER MAIN AT EITHER END (TWM01 AND TWM10).
- CM2. COMMISSION THE TEMPORARY WATER MAIN, INCLUDING PRESSURE TESTING TO 1200 KPA.
- CM3. COMPLETE TIE-INS TO THE EXISTING WATER MAIN, REFER TO "TYPICAL DETAIL - TIE-IN POINTS." LIVE CONNECTION TO BE CARRIED OUT BY TASWATER, AT WEST TAMAR COUNCIL'S EXPENSE.
- CM4. UNDERTAKE SUBSEQUENT CONSTRUCTION WORKS, INCLUDING INSTALLATION OF THE NEW WATER MAIN IN ACCORDANCE WITH DRAWING S-P.25.1315-00-CIV-DRG-2101, EXCLUDING TIE-INS TO THE EXISTING WATER MAIN AT EITHER END (WM01 AND WM04). THE NEW WATER MAIN IS TO BE INSTALLED ALONG THE SAME HORIZONTAL ALIGNMENT AS THE EXISTING WATER MAIN.
- CM5. COMMISSION THE NEW WATER MAIN, INCLUDING PRESSURE TESTING TO 1200 KPA.
- CM6. COMPLETE TIE-INS TO THE EXISTING WATER MAIN, REFER TO "TYPICAL DETAIL - TIE-IN POINTS." LIVE CONNECTION TO BE CARRIED OUT BY TASWATER, AT WEST TAMAR COUNCIL'S EXPENSE.

DRAWING REVISION HISTORY						APPROVED	SCALE (PLOTTED FULL SIZE)	AS SHOWN	SHEET SIZE A3	
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