From: N/R
To: TMR Road and Corridor Permits
Subject: RE: RCP2024-42354 (reissue of approval for tree clearing due to RCP2024-38945 being revoked)
Date: Thursday, 30 January 2025 6:09:08 AM
Attachments: Untitled attachment 00032.png
Untitled attachment 00035.png
Untitled attachment 00038.png
Untitled attachment 00041.png
Untitled attachment 00044.png
Untitled attachment 00047.png
Untitled attachment 00050.png
Untitled attachment 00053.png

Ken,

We have finalised our drawings for the intersection works, we plan on submitting these drawings next week for approval, what is the approval time frame for you an approval.

So that you are aware we will be removing the trees for this intersection upgrade works tomorrow .

Kind Regards,

N/R | **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: TMR Road and Corridor Permits <rcp@tmr.qld.gov.au>
Sent: Tuesday, 17 December 2024 2:54 PM
To N/R @gcecontractors.com>
Subject: RCP2024-42354 (reissue of approval for tree clearing due to RCP2024-38945 being revoked)

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Dear N/R

NOTE: DO NOT CHANGE the SUBJECT LINE in any way if replying to this email as it will result in the email not being received by the district/region.

Please use REPLY or REPLY ALL only.

Road Corridor Permit (re-issued)

Permit number	RCP2024-42354
Application ID	2024-47455
Structure or activity	Vegetation - Planting, Management or Removal of Vegetation - Tree clearing works associated with intersection upgrade as detailed in attached documentation for works on Rosewood-Warrill View Road (305), LOWER MOUNT WALKER
Approved location	Rosewood Warrill View Road (305) LOWER MOUNT WALKER (Christensen Rd intersection)

Thank you for your application received by the Department of Transport and Main Roads (TMR) on 26/08/2024. Attached is your approved permit and conditions.

All conditions must be complied with throughout the duration of the permit. Failure to do so may result in the permit being cancelled and/or a maximum fine of 200 penalty units.

During any activity on site (including maintenance), a copy of this permit and attached conditions must be produced upon request by a TMR officer.

Note: If you are engaging a traffic management company as part of these works, please forward this approval to them, as they will require this document to support and obtain their traffic control application and subsequent approval.

If you require any further information, please contact South Coast Region on (07) 5563 6600.

Yours sincerely

Ken Jensen
Principal Engineer (Civil)
Program Delivery and Operations

Released under RTI DTMR

Sensitivity Label: General

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From: TMR RCP Support
To: Ken W Jensen
Subject: Permit Email Response Received
Date: Thursday, 30 January 2025 6:10:16 AM

Permit RCP2024-42354 mail Response Received from customer.

Please do not reply to this message via e-mail. This address is automated and unattended.

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From: TMR RCP Support
To: N/R
Subject: Permits for Access to Road and Corridor - Permit number RCP2024-42354 is due to expire in 1 day
Date: Friday, 28 February 2025 12:03:27 AM

Dear N/R

Your permit number RCP2024-42354 is due to expire in 1 day.

If you require any assistance in this regard, please contact your nearest TMR office listed below (between the hours of 9am and 5pm).

'If you have already renewed or extended the above permit, please disregard this notice.'

'If you do not require an extension or amendment on the above permit, please disregard this notice.'

Note for Telecommunication Carriers: Land Access and Activity Notices (LAAN) for telecommunications cannot be extended as it does not comply with the legislative process. A new notice will need to be submitted.

Sincerely,
Queensland Department of Transport and Main Roads

Contact Information

District Name	District Office	Telephone	Email Address
Central West District	Barcaldine Office	(07) 4651 2777	barcaldine.office@tmr.qld.gov.au
Fitzroy District	Rockhampton Office	(07) 4931 1500	fitzroyDistrict@tmr.qld.gov.au
Mackay/Whitsunday District	Mackay Office	(07) 4951 8555	mackay.office@tmr.qld.gov.au
South West District	Roma Office	(07) 4622 9511	southWest.office@tmr.qld.gov.au
Darling Downs District	Toowoomba Office	(07) 4639 0777	downsswr.office@tmr.qld.gov.au
Metropolitan Region	Brisbane Office	(07) 3066 4222	metropolitanregion@tmr.qld.gov.au
North Coast Region	Maroochydore Office	(07) 5451 7055	northcoast@tmr.qld.gov.au
Wide Bay/Burnett District	Bundaberg Office	(07) 4154 0206	bundaberg.office@tmr.qld.gov.au
Far North District	Cairns Office	(07) 4045 7144	cairns.office@tmr.qld.gov.au
Northern District	Townsville Office	(07) 4421 8700	towdawe@tmr.qld.gov.au
North West District	Cloncurry Office	(07) 4769 3200	cloncurry.corridor@tmr.qld.gov.au
South Coast Region	Gold Coast Office	(07) 5563 6600	scr.calm@tmr.qld.gov.au

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From: TMR RCP Support
To: Ken W Jensen
Subject: An email was received regarding application 2024-47455
Date: Wednesday, 5 March 2025 1:50:01 PM

An email was received regarding application 2024-47455

Application Name: N/R

Email Received: N/R

N/R

Note: You received this email because you are the owner of the application.

Please do not reply to this message via e-mail, this address is unattended.

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From: N/R
To: TMR Road and Corridor Permits
Cc: SCR Corridor and Land Management Inbox
Subject: RE: URGENT NOTIFICATION FOR REMEDIAL WORKS: 2024-47455 (305) Tree Clearing Works, Rosewood-Warrill View Road, LOWER MOUNT WALKER
Date: Wednesday, 5 March 2025 1:49:41 PM
Attachments: Untitled attachment 00087.png
Untitled attachment 00090.png
Untitled attachment 00093.png
Untitled attachment 00096.png
Untitled attachment 00099.png
Untitled attachment 00102.png
Untitled attachment 00105.png
Untitled attachment 00108.png

Emily,

We only have site bollards left there as delineation. There has been a crashed car there since last Sunday.

We have installed rock check dams for sediment erosion as well. We spread the timber mulch to assist with erosion.

Kind Regards,

N/R | **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R@gcecontractors.com
Website: www.gcecontractors.com.au

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From: TMR Road and Corridor Permits <rcp@tmr.qld.gov.au>
Sent: Wednesday, 5 March 2025 12:05 PM
To: N/R@gcecontractors.com>
Cc: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: URGENT NOTIFICATION FOR REMEDIAL WORKS: 2024-47455 (305) Tree Clearing Works,

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Rosewood-Warrill View Road, LOWER MOUNT WALKER

Dear N/R

URGENT NOTIFICATION FOR REMEDIAL WORKS

The SCR Region has been informed that debris from the site has been left on the corridor. Could you please confirm that you are ensuring the site complies with condition A14 of your approval, as below;

A14 *The permit holder must maintain the road corridor in a clean and tidy condition and restore disturbed areas on request from TMR. All waste material is to be removed unless agreed to in writing. If the permit holder fails to respond to a written request from TMR to remove materials or restore the area, TMR may recover the cost from the permit holder. Anything not removed from the permit area will become the property of the state and may be disposed of or otherwise dealt with as TMR determines. The permit holder has no right to compensation or any claim against the state in respect of the loss.*

Please address this matter urgently to ensure compliance and avoid any potential costs or liabilities.

Once addressed please send through photos of the remedial works to scr.calm@tmr.qld.gov.au.

Kind Regards,

Emily
Administration Support Officer
Corridor and Land Management | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads

Floor G | 36-38 Cotton Street | Nerang Qld 4211
GPO Box 442 | Nerang Qld 4211
P: (07) 5563 6600 | F: (07) 5563 6611
E: scr.calm@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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From: TMR RCP Support
To: N/R
Cc: SCR Corridor and Land Management Inbox
Bcc: Casandra N Smith
Subject: URGENT NOTIFICATION FOR REMEDIAL WORKS: 2024-47455 (305) Tree Clearing Works, Rosewood-Warrill View Road, LOWER MOUNT WALKER
Date: Wednesday, 5 March 2025 12:05:05 PM
Attachments: Untitled attachment 00058.jfif

Dear N/R

URGENT NOTIFICATION FOR REMEDIAL WORKS

The SCR Region has been informed that debris from the site has been left on the corridor. Could you please confirm that you are ensuring the site complies with condition A14 of your approval, as below;

A14 *The permit holder must maintain the road corridor in a clean and tidy condition and restore disturbed areas on request from TMR. All waste material is to be removed unless agreed to in writing. If the permit holder fails to respond to a written request from TMR to remove materials or restore the area, TMR may recover the cost from the permit holder. Anything not removed from the permit area will become the property of the state and may be disposed of or otherwise dealt with as TMR determines. The permit holder has no right to compensation or any claim against the state in respect of the loss.*

Please address this matter urgently to ensure compliance and avoid any potential costs or liabilities.

Once addressed please send through photos of the remedial works to scr.calm@tmr.qld.gov.au.

Kind Regards,

Emily
Administration Support Officer
Corridor and Land Management | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads

Floor G | 36-38 Cotton Street | Nerang Qld 4211
GPO Box 442 | Nerang Qld 4211
P: (07) 5563 6600 | F: (07) 5563 6611
E: scr.calm@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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From: N/R
To: SCR Corridor and Land Management Inbox
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()
Date: Tuesday, 1 April 2025 12:39:54 PM
Attachments: image002.png
image003.png
image004.png

7/04/2025 – ELS – Sent emial and one drive location access to applicant. Requested they download information to that file location. Pending response. Once documents received, add them into eDAM as incoming correspondence from applicant.

01.04.2025 – DJL – Hi Emily, my apologies for flicking this to you do you know how to set up a one drive? The firewall stops the below and this is the plans that Ken was waiting on. When im back on Friday can you show me how to set them up?

Good afternoon,

Please find our full set of the Christensen Road Intersection drawings in the link below. We hereby request an Unconditional Works approval. Please let us know if you have any comments.

N/R

Kind Regards

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Thursday, July 25, 2024 12:13 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

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Hi N/R

Please see below required detail:

- Line Marking
  - There is no note or information indicating if RRPMs are to be installed as per standard practice.
  - Chevron markings on wide shoulder area on left turn out of Christensen Road may be required.
  - Confirmation of line marking/widths on shoulder of BAR, total width of BAR to be minimum of 6.5, however TMR has no objection to the current proposed 7m (inclusive of 0.5m shoulder).
- Pavement Queries:
  - Detail about pavement configuration
  - Provide Circly summary if undertaken

Thanks N/R

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: N/R @gcecontractors.com>
Sent: Wednesday, July 24, 2024 10:21 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Thanks Nathan I appreciate the quick response – we will not require a meeting however if you could please relay the required detail for pavement design and Linemarking via return email, we will address these and revert back to you for approval.

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, July 23, 2024 3:57 PM
To: N/R gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi

Following up on my below email,

The plans have been reviewed by Ken and myself, TMR generally endorses the design, all that is needed is further detail regarding the pavement design and a few queries regarding line marking, we are happy to condition these requirements or I can relay them via email/meeting.

Noting that TMR endorses the design and are happy with the design progressing, would you still like to have a meeting? If so, please let me know your availability and I can arrange this.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: Nathan K Cubit
Sent: Tuesday, July 23, 2024 9:50 AM
To N/R @gcecontractors.com>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

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Hi N/R

Apologies, I was not at work yesterday, I can confirm receipt of the updated plans, I will check with Ken regarding his availability and will get a meeting organised shortly.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: N/R @gcecontractors.com>
Sent: Tuesday, July 23, 2024 9:33 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Can you please confirm receipt of the additional design documents and advise when DTMR would be available to meet to discuss? We are looking to commence works within the next few weeks and need to get this underway as soon as possible.

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: N/R
Sent: Friday, July 19, 2024 12:36 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Please find attached additional design documents. Can you please confirm receipt and advise when we can arrange a meeting in relation to this development?

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, June 25, 2024 2:00 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Attached is what we have received, is this the latest from your end or is there more that we haven't received?

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

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P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: N/R @gcecontractors.com>
Sent: Tuesday, June 25, 2024 1:56 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

I had sent through the design we currently have for the road upgrade works. As this is at 30% design it is not complete and would require a meeting in order to continue with progressing the design. Can you please confirm that you received the design submitted with our application?

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Monday, June 24, 2024 12:15 PM
To N/R @gcecontractors.com>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

In regards to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307,

The Department of Transport and Main Roads is requesting more information/detailed plans to support your application, specifically additional drawings such as cross sections, drainage,

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pavement design, horizontal & vertical geometry as the current provided information is quite limited.

Feel free to provide the above via return email and I will upload them into the application.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Sent: Thursday, June 20, 2024 11:16 AM
To: GCE Contractors Pty Ltd N/R @gcecontractors.com.au>
Cc: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

I refer to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307. This application was received by the Department of Transport and Main Roads (the department) on 18 June 2024.

Should further information be required to assess your application, an information request will be issued.

If no further information is required, your application will be assessed, and you will be provided with a response pursuant to the TIA.

If you would like to discuss this application, please contact Nathan Cubit, Student Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6516.

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Regards,
eDAM System | Department of Transport and Main Roads

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TRAFFIC & TRANSPORT ENGINEERING

Level 2 | 62 Astor Terrace | Spring Hill QLD 4000
PO Box 272 | Spring Hill QLD 4004
P 07 3839 6771
E mail@ptt.com.au
WWW.PTT.COM.AU

14 March 2025

GCE Contractors
55 McDonald Road
Windsor, QLD 4030

Attention: N/R

Dear N/R

RE: MT WALKER QUARRY: HINRICHSEN ROAD, COLEYVILLE
TRAFFIC ENGINEERING ADVICE

BACKGROUND

As per your request, we have undertaken a review of the preliminary design of the upgrade to Christensen Road and Hinrichsen Road in relation to the Mt Walker Quarry haul route. In particular, we have considered the design of the 90-degree bend in the horizontal alignment of the quarry haul route at the Christensen Road / Hinrichsen Road intersection.

The review has considered the design of the proposed Christensen Road / Hinrichsen Road intersection, in particular its compliance with Condition 20 of the decision notice in relation to Scenic Rim Regional Council development application reference MC.Bn13/00012, which is reproduced below:

> *UPGRADING OF CHRISTENSEN ROAD - The section of Christensen Road from its intersection with Rosewood-Warrill View Road to the site access is to be designed and constructed to a 4A standard in accordance with all parts of the Austroads "Guide to Road Design" and Scenic Rim Regional Council Standard Drawing R-10. The design and construction of the road works shall include all necessary pavement works, drainage works, traffic signage and guardrails as and where required. Signage is to comply with the Manual of Uniform Traffic Control Devices – MUTCD with respect to the requirements of the Austroads Guide to Road Design.*

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INTERSECTION DESIGN

Christensen Road meets Hinrichsen Road adjacent to 277-301 Christensen Road (Lots 30 and 31 on RP28481 and Lot 10 and 17 on RP21535). As shown in Figure 1, the formed road follows the western and southern legs of the intersection, while the eastern leg is currently unformed road reserve. There are also access driveways to Lot 17 on RP21535 and Lot 30 on RP28481 in the vicinity of the intersection.

The upgraded Christensen Road / Hinrichsen Road intersection design is shown in Figure 2. The intersection design incorporates:

- a 90-degree curve between Christensen Road and Hinrichsen Road comprising a 30m centre-line radius curve
- pavement widening on the bend
- provision for the existing access driveways
- all works within the existing road reserve

Figure 1: EXISTING CHRISTENSEN ROAD / HINRICHSEN ROAD INTERSECTION

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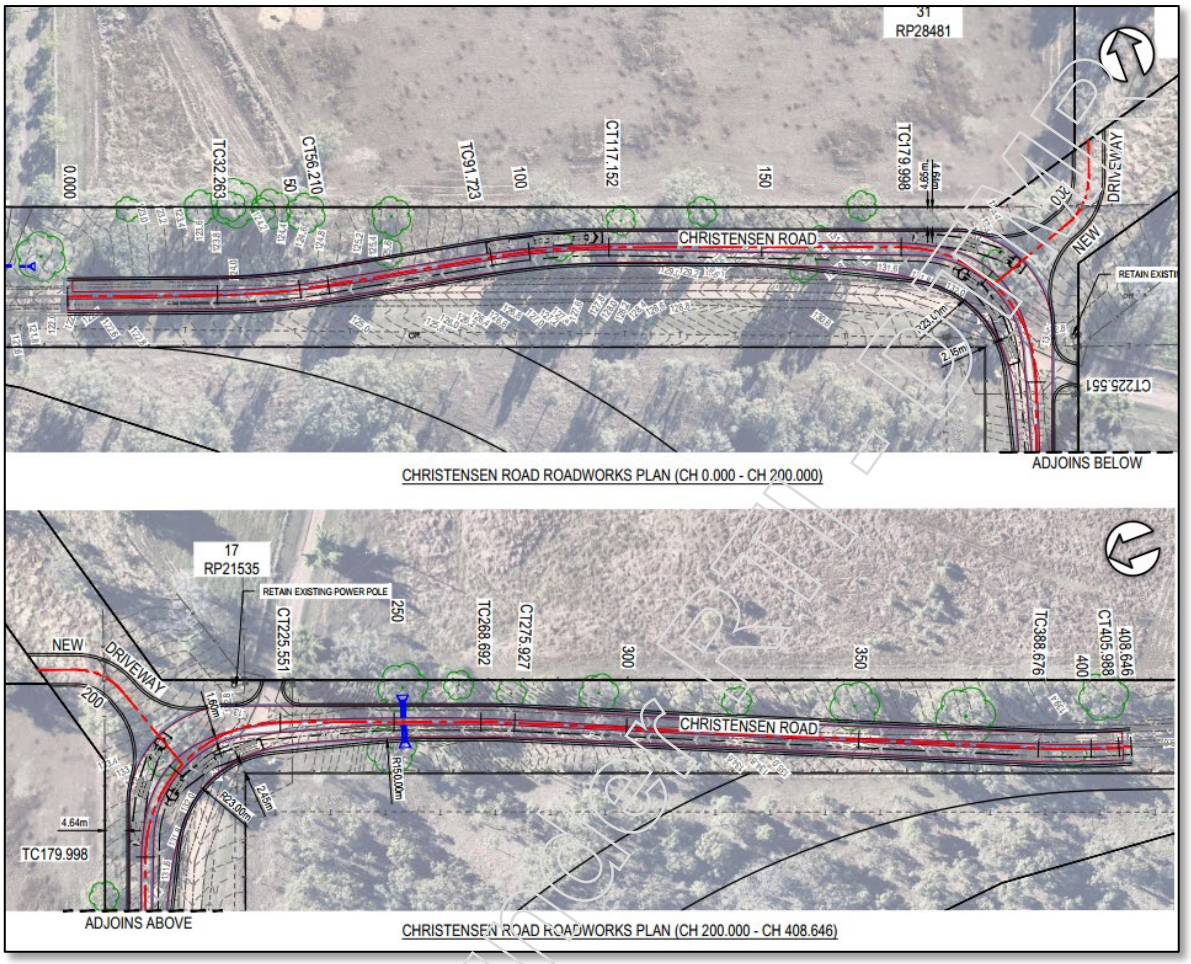
RTI-Release.pdf - Page Number: 20 of 448

Figure 2: UPGRADED CHRISTENSEN ROAD / HINRICHSEN ROAD INTERSECTION



COMPLIANCE WITH AUSTROADS

It is understood that the upgraded section of Christensen Road would have a posted speed limit of 80km hour and would be classified as an intermediate-speed rural road (typically 70–100 km/h) according to Austroads.

The Austroads Guide to Road Design Part 3 highlights the importance of maintaining a consistent rural road geometry and a road alignment that meets driver expectations. However, it acknowledges that it is not always practical to achieve consistent road geometry and a uniform operating speed and that it is acceptable to have isolated geometric features that are inconsistent with the desired speed. Isolated geometric features can include a 'tight' horizontal curve or an intersection controlled by a stop or give-way sign.

The proposed curve in the major road alignment at the Christensen Road / Hinrichsen Road intersection would result in a significant reduction in vehicle operating speeds. This speed reduction would be outside of the typical desirable speed range based on the Austroads Operating Speed model. However, our reading of the Austroads guide suggests that while tight radius curves are typically avoided whenever possible, they may be used when necessary due to terrain constraints or existing infrastructure limitations, provided appropriate mitigation strategies are adopted.

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To mitigate the potential safety and operational impacts associated with the tight radius curve, the following mitigation measures would be required:

- Reduction in Operating Speed: vehicle speeds must be significantly reduced before the curve. Therefore, it is recommended that 'curve ahead' signage in conjunction with a 'reduce speed' sign and an advisory speed plate. Chevron alignment markings (CAMs) would also need to be placed on the outside of the bend to help indicate the presence and severity of the curve.
- High Superelevation: a superelevation on the curve in the order of 5-7% would be required to counteract the lateral forces and maintain vehicle stability.
- Curve Widening: widening on the bend would be required to allow for heavy vehicle passing (given their wider tracking paths).
- Pavement Treatment: use of a high-friction surface treatment to improve vehicle grip and reduce the risk of skidding.

In addition, the traffic volumes on the sections of Christensen Road and Hinrichsen Road are very low, which reduces the risk exposure and provides some additional flexibility in the design approach. Given the intersection's location at the end of a rural access street, the curve would predominantly serve regular users familiar with the road environment.

We are aware of precedents for tight radius curves on intermediate and high-speed rural roads. Notably, a similar arrangement exists on Warrill View Peak Crossing Road at its intersection with Old Warwick Road near Harrisville, within the Scenic Rim local area. This section of Warrill View Peak Crossing Road has a posted speed limit of 100km/h, with a 90-degree horizontal curve at the Old Warwick Road intersection featuring a centre-line radius of approximately 35 metres and an advisory speed of 30 km/h. Warrill View Peak Crossing Road forms part of the state-controlled road network and carries much higher traffic volumes than would be expected on Christensen Road. This supports the view that the haul road alignment is consistent with Austroads standards and driver expectations.

Based on the above, it is our view that the design of the tight horizontal curve at the Christensen Road / Hinrichsen Road intersection complies with the Austroads Guide to Road Design and, therefore, is consistent with Condition 20 of the decision notice for Scenic Rim Regional Council development application MC.Bn13/00012.

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CONCLUSION

The proposed upgrade to Christensen Road, incorporating a tight horizontal curve at the Christensen Road / Hinrichsen Road intersection, represents a practical response to site-specific constraints while adhering to the flexibility allowed under the Austroads Guide to Road Design framework. The curve design results in operating speeds below the typical range for an intermediate-speed rural road. However, this would be mitigated by advisory speed signage and CAMs, superelevation, curve widening and a high-friction pavement treatment. The mitigation measures in combination with the low traffic volumes would allow the road to remain safe and efficient for its users.

In our view, the tight horizontal curve at the Christensen Road and Hinrichsen Road intersection is designed in accordance with the Austroads Guide to Road Design, thereby satisfying the requirements of Condition 20 of the decision notice for the Scenic Rim Regional Council development application MC.Bn13/00012.

If you have any questions regarding the issues discussed above, please do not hesitate to contact us.

Yours sincerely,

N/R

Director ([redacted])

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CONSTRUCTING OR INTERFERING WITH A ROAD OR ITS OPERATION

SCENIC RIM REGIONAL COUNCIL

APPLICANT DETAILS

Applicant Name	Mt Walker Quarries (Qld) Pty Ltd		
Contact Person	C/- Nigel Fletcher & Associates Pty Ltd -	N/R	
Postal Address	PO Box 7217 Southport Park QLD 4215		
Contact Number	N/R	**Email Address**	N/R @nigelfletcherassociates.com.au

LOCATION OF PREMISE

Street address or lot and plan for the land adjoining or adjacent to the works.
(Attach a separate schedule if there is insufficient space in this table).

☑	Street Address
☐	Street address and/or lot on plan for the land adjoining or adjacent to the works (Appropriate for development in water but adjoining or adjacent to land, e.g. jetty, pontoon)

Street Address					**Lot & Plan**	
	Unit No	**Street No**	**Street Name & Suburb**	**Postcode**	**Lot No**	**Plan Type & No**
I.			Christensen Road Coleyville	4307		Road Corridor
II.						
III.						

TOTAL AREA OF THE WORK ON WHICH THE DEVELOPMENT IS PROPOSED (*Indicate in square metres*)

4390 m of Roadway

WHAT IS THE DOLLAR VALUE OF THE PROPOSED OPERATIONAL WORK? (*Including GST, materials and labour*)

WHAT IS THE NATURE OF THE WORK? (*select all applicable boxes*)

☑	**Road Works**	☐	**Stormwater**	☐	**Water Infrastructure**
☑	**Drainage**	☑	**Earthworks**	☐	**Sewerage Infrastructure**
☐	**Landscaping**	☐	**Signage**	☑	**Clearing vegetation under the planning scheme**
☐	**Other (provide details)**				

ARE THERE ANY CURRENT APPROVALS (*eg: Development Approvals*) ASSOCIATED WITH THIS APPLICATION?

☐	**NO**		
☑	**YES** (*Please provide details*)		
Approval Reference/s		**Date Approved**	**Date Approval Lapses**
MCU24/033		19/12/24	

IS THE PAYMENT OF A PORTABLE LONG SERVICE LEVY APPLICABLE? (*refer to notes for more information*)

☐	**NO**	☐	**YES** (*Please complete the following information and submit the YELLOW Local Government/Private Certifier's copy of the receipted QLeave form*)

APPROVAL REFERENCE/S	**DATE APPROVED**	**QLEAVE PROJECT NUMBER**

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NOTES

- The portable long service leave levy need note be paid when the application is made, but the Building and Construction Industry (Portable Long Service Leave) Act 1991 require the levey to be paid before a development permit is issued.
- Building and construction industry notification and payment forms are available from any Queensland post office or agency, on request from QLeave or can be completed on the QLeave website at www.qleave.qld.gov.au. For more information contact QLeave on 1800 803 481 or visit their website.

LIST BELOW ALL OF THE FORMS AND SUPPORTING INFORMATION THAT ACCOMPNAY THIS APPLICATION INCL. CHECKLIST *(Supporting information attached that will be submitted as part of this application)*

DESCRIPTION OF ATTACHMENT	METHOD OF LODGEMENT
Refer Covering Letter dated 21st March 2025	Email and One Drive

INFORMATION REGARDING THIS APPLICATION

This form is to be used to apply for works or activities for which approval is required under the Local Government Act 2009. This approval includes the construction, maintenance or conducting of the works/activities.

This form may also be used for the renewal/extension of an existing approval.

This application will be assessed by Council to ensure all works are in accordance with current standards. A request for further information may be issued by Council. Council reserves the right to allow 20 business days to request further information or to issue the request approval.

APPLICANTS DECLARATION

☑ By making this application, I declare that all information in this application is true and correct

(Note: It is unlawful to provide false or misleading information)

DECLARATION

I/we the applicant/s request the approval/renewal of approval to carry out works or activities within Scenic Rim Regional Council's road corridor, as specified in the Local Government Act 2009. I/We warrant that the information contained within and/or attached to the application is true and accurate to the best of my/our knowledge.

Signature	N/R	**Date**	21st March 2025

PRIVACY STATEMENT

Important Notice

Scenic Rim Regional Council is collecting your personal information in order to process your request. The information will only be accessed by Scenic Rim Regional Council for Council business related activities. Your information is handled in accordance with the Information Privacy Act 2009 and will not be given to any other person or agency unless you have given permission or we are required by law.

TO SUBMIT YOUR FORM TO COUNCIL — *CLICK HERE TO SUBMIT YOUR FORM TO COUNCIL*

By Mail	Scenic Rim Regional Council PO Box 25, BEAUDESERT QLD 4285				
By E-Mail	mail@scenicrim.qld.gov.au	**Phone**	(07) 5540 5111	**Fax**	(07) 5540 5103
In Person	Beaudesert Customer Service Centre 82 Brisbane Street, Beaudesert Boonah Customer Service Centre 70 High Street, Boonah Tamborine Mountain Library & Customer Service Cnr Main St & Yuulong Rd, Tamborine Mountain				

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

Our Ref: 210173C-LET-01
Enquiries to: N/R

7th March 2025

Scenic Rim Regional Council
PO Box 25
BEAUDESERT QLD 4285

Attention: The Development Engineer

Dear Sir or Madam,

Re: SUBMISSION OF CONSTRUCTING OR INTERFERING WITH A ROAD OR ITS OPERATION APPLICATION MCU24/033
CHRISTENSEN ROAD COLEYVILLE 4307

We are pleased to submit an application for constructing or interfering with a road or its operation for the proposed road works required to satisfy Condition 20 Upgrading of Christensen Road as defined within MCU24/033

This application includes the following documents:

- Constructing or Interfering with a Road or its Operation
- SRRC Constructing or Interfering with a Road or its Operation Form;
- Civil Works Drawings for Earthworks, Erosion and Sedimentation Control, Roadworks, Stormwater, Swept Paths, Signs and Linemarking and Pavements as provided in the NFA Document Transmittal No…….;
- NF Document Transmittal Ref No …..;
- Preliminary Geotechnical Report, Pacific Geotech;
- Cul-de Sac Gazetting documents;
- Jackson Land Lot … RP …. Road Alignment Gazetting documents;
- Mt Walker Quarry: Hinrichsen Road Coleyville Traffic Engineering Advice, PTT ;
- N/R Correspondence;
- Noise Report for affected properties; and
- Owners Consent Correspondence for approval of works within property boundaries.

The above documents can be found on the following OneDrive Link. Please advise if you prefer to receive them on an alternative system.

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We trust that this is satisfactory, please do not hesitate to contact the undersigned on N/R if you require any additional information.

Yours faithfully

N/R

Nigel Fletcher & Associates

N/R

Director – Principal Engineer

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Document Transmittal Register

NIGEL FLETCHER & ASSOCIATES
ENGINEERS & PROJECT MANAGERS

Project: Mt Walker Quarry Christensen Road Upgrade Works
Client: GCE Contractors

COUNCIL APPROVAL

Project No 210173C
Doc Trans_Rev_013

Project Team
GCE
GCE N/R
PTT
SRRC

Issued by:

A- Approval P- Prelim R- Revision X- Info T- Tender C- Construct
P- Print C- CD F- File
E- Email

Date & Drawing Revision Issued:

Document Ref. No.	Document Title	10May24	07Jul24	31Jul24	20Aug24	02Oct24	04Oct24	04Nov24	13Nov24	26Mar25	26Mar25	27Feb25	31Mar25
Project Drawings													
Detail Design Drawings													
C000	Christensen Road Cover Sheet		B		C	C					D		F
C001	Christensen Road General Notes Sheet 1 of 2										D		F
C002	Christensen Road General Notes Sheet 1 of 2												A
C003	Christensen Road Site Layout Plan										D		F
C004	Christensen Road Typical Cross Section		B		C	C		D			D		F
C200	Christensen Road Earthworks Plan Sheet 1 of 7										A		C
C201	Christensen Road Earthworks Plan Sheet 2 of 7										A		C
C202	Christensen Road Earthworks Plan Sheet 3 of 7										A		C
C203	Christensen Road Earthworks Plan Sheet 4 of 7										A		C
C204	Christensen Road Earthworks Plan Sheet 5 of 7										A		C
C205	Christensen Road Earthworks Plan Sheet 6 of 7										A		C
C206	Christensen Road Earthworks Plan Sheet 7 of 7										A		C
C220	Christensen Road Sediment and Erosion Plan Sheet 1 of 7										A		C
C221	Christensen Road Sediment and Erosion Plan Sheet 2 of 7										A		C
C222	Christensen Road Sediment and Erosion Plan Sheet 3 of 7										A		C
C223	Christensen Road Sediment and Erosion Plan Sheet 4 of 7										A		C
C224	Christensen Road Sediment and Erosion Plan Sheet 5 of 7										A		C
C225	Christensen Road Sediment and Erosion Plan Sheet 6 of 7										A		C
C226	Christensen Road Sediment and Erosion Plan Sheet 7 of 7										A		C
C227	Christensen Road Sediment and Erosion Details										A		C
C301	Christensen Road Roadworks Plan & Longitudinal Section Sheet 1 of 15	A	B		C	C		D			D		F
C302	Christensen Road Roadworks Plan & Longitudinal Section Sheet 2 of 15	A	B		C	C		D			D		F
C303	Christensen Road Roadworks Plan & Longitudinal Section Sheet 3 of 15	A	B		C	C		D			D		F
C304	Christensen Road Roadworks Plan & Longitudinal Section Sheet 4 of 15	A	B		C	C		D			D		F
C305	Christensen Road Roadworks Plan & Longitudinal Section Sheet 5 of 15	A	B		C	C		D			D		F
C306	Christensen Road Roadworks Plan & Longitudinal Section Sheet 6 of 15	A	B		C	C					D		F
C307	Christensen Road Roadworks Plan & Longitudinal Section Sheet 7 of 15	A	B		C	C					D		F
C308	Christensen Road Roadworks Plan & Longitudinal Section Sheet 8 of 15	A	B		C	D					D		F
C309	Christensen Road Roadworks Plan & Longitudinal Section Sheet 9 of 15	A	B		C	C					D		F
C310	Christensen Road Roadworks Plan & Longitudinal Section Sheet 10 of 15	A	B		C	C					D		F
C311	Christensen Road Roadworks Plan & Longitudinal Section Sheet 11 of 15	A	B		C	D					D		F
C312	Christensen Road Roadworks Plan & Longitudinal Section Sheet 12 of 15	A	B		C	D					D		F
C313	Christensen Road Roadworks Plan & Longitudinal Section Sheet 13 of 15	A	B		C	D					D		F
C314	Christensen Road Roadworks Plan & Longitudinal Section Sheet 14 of 15	A	B		C	D					D		F
C315	Christensen Road Roadworks Plan & Longitudinal Section Sheet 15 of 15	A	B		C	C					D		F
C318	Christensen Road Roadworks Layout Plan - Interim Bend											A	
C319	Christensen Road Longitudinal Sections - Interim Bend											A	
C320	Christensen Road Roadworks Cross Sections Sheet 1 of 15	A	B		C	C					D		F
C321	Christensen Road Roadworks Cross Sections Sheet 2 of 15	A	B		C	C					D		F
C322	Christensen Road Roadworks Cross Sections Sheet 3 of 15	A	B		C	C					D		F
C323	Christensen Road Roadworks Cross Sections Sheet 4 of 15	A	B		C	C					D		F
C324	Christensen Road Roadworks Cross Sections Sheet 5 of 15	A	B		C	C					D		F
C325	Christensen Road Roadworks Cross Sections Sheet 6 of 15	A	B		C	C					D		F
C326	Christensen Road Roadworks Cross Sections Sheet 7 of 15	A	B		C	C					D		F
C327	Christensen Road Roadworks Cross Sections Sheet 8 of 15	A	B		C	C					D		F
C328	Christensen Road Roadworks Cross Sections Sheet 9 of 15	A	B		C	C					D		F
C329	Christensen Road Roadworks Cross Sections Sheet 10 of 15	A	B		C	C					D		F
C330	Christensen Road Roadworks Cross Sections Sheet 11 of 15	A	B		C	C					D		F
C331	Christensen Road Roadworks Cross Sections Sheet 12 of 15	A	B		C	C					D		F
C332	Christensen Road Roadworks Cross Sections Sheet 13 of 15				C	C					D		F
C333	Christensen Road Roadworks Cross Sections Sheet 14 of 15				C	C					D		F
C334	Christensen Road Roadworks Cross Sections Sheet 15 of 15				C	C					D		F
C900	Catchment Layout Plan												
C340	Christensen Road Catchment Layout Plan Sheet 1 of 12				C	D					D		F
C341	Christensen Road Culvert Sections and Plan Sheet 2 of 12				C	D					D		F
C342	Christensen Road Culvert Sections and Plan Sheet 3 of 12				C	D					D		F
C343	Christensen Road Culvert Sections and Plan Sheet 4 of 12				C	D					D		F
C344	Christensen Road Culvert Sections and Plan Sheet 5 of 12				C	D					D		F
C345	Christensen Road Culvert Sections and Plan Sheet 6 of 12				C	D					D		F
C346	Christensen Road Culvert Sections and Plan Sheet 7 of 12				C	D					D		F
C347	Christensen Road Culvert Sections and Plan Sheet 8 of 12				C	D					D		F
C348	Christensen Road Culvert Sections and Plan Sheet 9 of 12				C	D					D		F
C349	Christensen Road Culvert Sections and Plan Sheet 10 of 12					D					D		F
C350	Christensen Road Culvert Sections and Plan Sheet 11 of 12					D					D		F
C351	Christensen Road Culvert Sections and Plan Sheet 12 of 12										D		F
C352	High Impact (Red) Waterway Culvert Details												A
C353	Stormwater Details												A
C360	Christensen Road Driveway Plan and Long Section Sheet 1 of 10	A			C	C					D		F
C361	Christensen Road Driveway Plan and Long Section Sheet 2 of 10	A			C	C					D		F
C362	Christensen Road Driveway Plan and Long Section Sheet 3 of 10	A			C	C					D		F
C363	Christensen Road Driveway Plan and Long Section Sheet 4 of 10				C	C					D		F
C364	Christensen Road Driveway Plan and Long Section Sheet 5 of 10				C	C					D		F
C365	Christensen Road Driveway Plan and Long Section Sheet 6 of 10					C					D		F
C366	Christensen Road Driveway Plan and Long Section Sheet 7 of 10					C					D		F
C367	Christensen Road Driveway Plan and Long Section Sheet 8 of 10					C					D		F
C368	Christensen Road Driveway Plan and Long Section Sheet 9 of 10					C					D		F
C369	Christensen Road Driveway Plan and Long Section Sheet 10 of 10										D		F
C400	Swept Path Layout Plan Sheet 1 of 10				C	C					D		F
C401	Swept Path Layout Plan Sheet 2 of 10				C	C					D		F
C402	Swept Path Layout Plan Sheet 3 of 10				C	C					D		F
C403	Swept Path Layout Plan Sheet 4 of 10				C	C					D		F
C404	Swept Path Layout Plan Sheet 5 of 10				C	C					D		F
C405	Swept Path Layout Plan Sheet 6 of 10				C	C					D		F
C406	Swept Path Layout Plan Sheet 7 of 10					C					D		F
C407	Swept Path Layout Plan Sheet 8 of 10					C					D		F
C408	Swept Path Layout Plan Sheet 9 of 10					C					D		F
C409	Swept Path Layout Plan Sheet 10 of 10					C					D		F
C430	Christensen Road Signage and Linemarking Plan Sheet 1 of 8										A		C
C431	Christensen Road Signage and Linemarking Plan Sheet 2 of 8										A		C
C432	Christensen Road Signage and Linemarking Plan Sheet 3 of 8										A		C
C433	Christensen Road Signage and Linemarking Plan Sheet 4 of 8										A		C
C434	Christensen Road Signage and Linemarking Plan Sheet 5 of 8										A		C
C435	Christensen Road Signage and Linemarking Plan Sheet 6 of 8										A		C
C436	Christensen Road Signage and Linemarking Plan Sheet 7 of 8										A		C
C437	Christensen Road Signage and Linemarking Plan Sheet 8 of 8										A		C
C450	Christensen Road Pavement Plan Sheet 1 of 8										A		C
C451	Christensen Road Pavement Plan Sheet 2 of 8										A		C
C452	Christensen Road Pavement Plan Sheet 3 of 8										A		C
C453	Christensen Road Pavement Plan Sheet 4 of 8										A		C
C454	Christensen Road Pavement Plan Sheet 5 of 8										A		C
C455	Christensen Road Pavement Plan Sheet 6 of 8										A		C
C456	Christensen Road Pavement Plan Sheet 7 of 8										A		C
C457	Christensen Road Pavement Plan Sheet 8 of 8										A		C
C458	Christensen Road Pavement Details										A		C
SKC231-1	Roadworks Layout Plan Option 1 Sheet 1 of 4								A				
SKC232-1	Roadworks Layout Plan Option 1 Sheet 2 of 4								A				
SKC233-1	Roadworks Layout Plan Option 1 Sheet 3 of 4								A				
SKC234-1	Roadworks Layout Plan Option 1 Sheet 4 of 4								A				
SKC232-2	Roadworks Layout Plan Option 2 Sheet 1 of 4								A				
SKC232-2	Roadworks Layout Plan Option 2 Sheet 2 of 4								A				
SKC233-2	Roadworks Layout Plan Option 2 Sheet 3 of 4								A				
SKC234-2	Roadworks Layout Plan Option 2 Sheet 4 of 4								A				
	TMR ROADWORKS												
C800	Rosewood-Warrill Road Intersection Cover Sheet and Location Plan										C		
C801	Rosewood-Warrill Road Intersection Standard Notes								B		C		
C820	Demolition Layout Plan										A		
C825	25 m B Double Swept Path Plan									A	C		
C835	Rosewood-Warrill Road Erosion and Sedimentation Control Plan										B		
C836	Rosewood-Warrill Road Erosion and Sedimentation Control Details										B		
B840	Rosewood-Warrill Road Intersection Earthworks Plan										A		
C860	Rosewood-Warrill Road Intersection Overall Layout Plan				A			B			C		
C861	Rosewood-Warrill Road Intersection Layout Plan Sheet 1 of 2										A		
C862	Rosewood-Warrill Road Intersection Layout Plan Sheet 2 of 2										A		
C863	Rosewood-Warrill Road Sections										A		
C864	Rosewood-Warrill Road Longitudinal Sections				A			B			C		
C865	Rosewood-Warrill Road Cross Sections Sheet 1 of 3				A			B			C		
C866	Rosewood-Warrill Road Cross Sections Sheet 2 of 3				A			B			C		
C867	Rosewood-Warrill Road Cross Sections Sheet 3 of 3				A			B			C		
C868	Christensen Road Longitudinal Sections				A			B			A		
C869	Christensen Road Cross Sections Sheet				A			B			A		
C870	Rosewood-Warrill Road Intersection Signage and Linemarking Plan Sheet 1 of 2				A			B			C		
C871	Rosewood-Warrill Road Intersection Signage and Linemarking Plan Sheet 2 of 2				A			B			C		
C875	Rosewood-Warrill Road Pavement Layout Plan Sheet 1 of 2										A		
C876	Rosewood-Warrill Road Pavement Layout Plan Sheet 2 of 2										A		
C890	Rosewood-Warrill Road Catchment Layout Plan										B		
C891	Rosewood-Warrill Road Stormwater Layout Plan Sheet 1 of 2										A		
C892	Rosewood-Warrill Road Stormwater Layout Plan Sheet 2 of 2										A		
C895	Rosewood-Warrill Road Stormwater Culvert Section Sheet 1 of 2										C		
C896	Rosewood-Warrill Road Stormwater Culvert Sections Sheet 2 of 2										C		
C897	Rosewood-Warrill Road Stormwater Longitudinal Sections										A		
C898	Rosewood-Warrill Road Stormwater Calculations Sheet										A		
Electronic Files													
Reports													

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MT WALKER QUARRY
CHRISTENSEN ROAD UPGRADE

SCHEDULE OF DRAWINGS

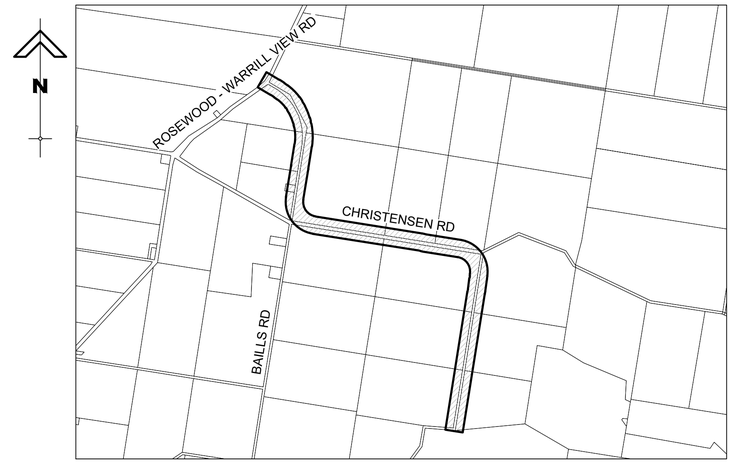
SHEET No.	SHEET TITLE
GENERAL	
C000	CHRISTENSEN ROAD COVER SHEET
C001	GENERAL NOTES SHEET 1 OF 2
C002	GENERAL NOTES SHETE 2 OF 2
ROADWORKS	
C013	CHRISTENSEN ROAD SITE LAYOUT PLAN
C014	CHRISTENSEN ROAD TYPICAL SECTION
C200	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 1 OF 7
C201	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 2 OF 7
C202	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 3 OF 7
C203	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 4 OF 7
C204	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 5 OF 7
C205	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 6 OF 7
C206	CHRISTENSEN ROAD EARTHWORKS LAYOUT PLAN SHEET 7 OF 7
C220	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 7
C221	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 7
C222	SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 7
C223	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 7
C224	SEDIMENT AND EROSION CONTROL PLAN SHEET 5 OF 7
C225	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 7
C226	SEDIMENT AND EROSION CONTROL PLAN SHEET 7 OF 7
C227	SEDIMENT AND EROSION CONTROL DETAILS
C301	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 1 OF 15
C302	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 2 OF 15
C303	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 3 OF 15
C304	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 4 OF 15
C305	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 5 OF 15
C306	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 6 OF 15
C307	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 7 OF 15
C308	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 8 OF 15
C309	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 9 OF 15
C310	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 10 OF 15
C311	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 11 OF 15
C312	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 12 OF 15
C313	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 13 OF 15
C314	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 14 OF 15
C315	CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 15 OF 15
C320	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 1 OF 16
C321	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 2 OF 16
C322	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 3 OF 16

SCHEDULE OF DRAWINGS

SHEET No.	SHEET TITLE
C323	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 4 OF 16
C324	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 5 OF 16
C325	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 6 OF 16
C326	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 7 OF 16
C327	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 8 OF 16
C328	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 9 OF 16
C329	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 10 OF 16
C330	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 11 OF 16
C331	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 12 OF 16
C332	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 13 OF 16
C333	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 14 OF 16
C334	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 15 OF 16
C335	CHRISTENSEN ROAD ROADWORKS CROSS SECTIONS SHEET 16 OF 16
DRAINAGE	
C900	CATCHMENT LAYOUT PLAN
C340	CULVERT SECTIONS AND PLAN SHEET 1 OF 12
C341	CULVERT SECTIONS AND PLAN SHEET 2 OF 12
C342	CULVERT SECTIONS AND PLAN SHEET 3 OF 12
C343	CULVERT SECTIONS AND PLAN SHEET 4 OF 12
C344	CULVERT SECTIONS AND PLAN SHEET 5 OF 12
C345	CULVERT SECTIONS AND PLAN SHEET 6 OF 12
C346	CULVERT SECTIONS AND PLAN SHEET 7 OF 12
C347	CULVERT SECTIONS AND PLAN SHEET 8 OF 12
C348	CULVERT SECTIONS AND PLAN SHEET 9 OF 12
C349	CULVERT SECTIONS AND PLAN SHEET 10 OF 12
C350	CULVERT SECTIONS AND PLAN SHEET 11 OF 12
C351	CULVERT SECTIONS AND PLAN SHEET 12 OF 12
C352	HIGH IMPACT (RED) WATERWAY CULVERT DETAILS
C353	STORMWATER DETAILS
DRIVEWAYS	
C360	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 1 OF 10
C361	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 2 OF 10
C362	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 3 OF 10
C363	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 4 OF 10
C364	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 5 OF 10
C365	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 6 OF 10
C366	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 7 OF 10
C367	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 8 OF 10
C368	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 9 OF 10
C369	DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 10 OF 10

SCHEDULE OF DRAWINGS

SHEET No.	SHEET TITLE
SWEPT PATHS	
C401	SWEPT PATH LAYOUT PLAN SHEET 1 OF 11
C402	SWEPT PATH LAYOUT PLAN SHEET 2 OF 11
C403	SWEPT PATH LAYOUT PLAN SHEET 3 OF 11
C404	SWEPT PATH LAYOUT PLAN SHEET 4 OF 11
C405	SWEPT PATH LAYOUT PLAN SHEET 5 OF 11
C406	SWEPT PATH LAYOUT PLAN SHEET 6 OF 11
C407	SWEPT PATH LAYOUT PLAN SHEET 7 OF 11
C408	SWEPT PATH LAYOUT PLAN SHEET 8 OF 11
C409	SWEPT PATH LAYOUT PLAN SHEET 9 OF 11
C410	SWEPT PATH LAYOUT PLAN SHEET 10 OF 11
C411	SWEPT PATH LAYOUT PLAN SHEET 11 OF 11
SIGNAGE AND LINEMARKING	
C430	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 1 OF 8
C431	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 2 OF 8
C432	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 3 OF 8
C433	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 4 OF 8
C434	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 5 OF 8
C435	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 6 OF 8
C436	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 7 OF 8
C437	CHRISTENSEN ROAD SIGN & LINEMARKING PLAN SHEET 8 OF 8
C438	POST AND INSTALLATION DETAILS
PAVEMENT	
C450	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 1 OF 8
C451	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 2 OF 8
C452	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 3 OF 8
C453	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 4 OF 8
C454	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 5 OF 8
C455	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 6 OF 8
C456	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 7 OF 8
C457	CHRISTENSEN ROAD PAVEMENT PLAN SHEET 8 OF 8
C458	PAVEMENT DETAILS



LOCALITY PLAN
N.T.S.

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
COVER SHEET

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C000	F

PLOTTED: 20 Mar 2025
FILENAME: N:\GTV\T Vaiman Ltd Co\SUB175 - Documents\SUB175004 MW\A2023\ Mt Walker Quarry Access Rd\Dg, Cov\01. DWA\Rev A\02. Acad\C000 COVER SHEET.dwg

Released in PTMR

GENERAL NOTES

1. CONTRACT DOCUMENTATION
   ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE COUNCIL'S SPECIFICATION RELEVANT TO THE WORKS.
2. SURVEY INFORMATION
   CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE CONTRACTOR'S SURVEYOR. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.
3. DATUM
   DATUM AS SUPPLIED BY THE PRINCIPAL'S SURVEYOR.
4. EXISTING SURVEY CONTROL STATIONS
   THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.
5. EXISTING SERVICES
   EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SERVICES. WHERE PROPOSED SERVICES CROSS ANY EXISTING SERVICES THE CONTRACTOR SHALL POT HOLE AND RECORD THE SIZE LOCATION AND DEPTH OF THE EXISTING SERVICES. ALL PRIVATE SERVICES SHALL BE LOCATED IN LINE AND DEPTH PRIOR TO COMMENCING WORK.
6. SITE ACCESS
   THE CONTRACTOR SHALL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE SITE MANAGER. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL WORK WITHIN THE APPROVED CONSTRUCTION MANAGEMENT PLAN.
7. PROVISION FOR TRAFFIC
   PROVISION FOR TRAFFIC ON EXISTING LOCAL ROADS IS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL AUTHORITY REQUIREMENTS.
   THE CONTRACTOR IS TO TAKE PARTICULAR CARE TO ENSURE THAT VEHICULAR AND PEDESTRIAN ACCESS TO EXISTING PROPERTIES IN LOCAL STREETS IS MAINTAINED AT ALL TIMES THROUGHOUT THE COURSE OF THE WORKS.
8. WORK BOUNDARIES
   THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORK AREAS UNDER THIS CONTRACT. AT NO TIME SHALL THE CONTRACTOR ENTER ADJOINING PROPERTIES OR CONTRACT WORK AREAS ON THE SITE WITHOUT WRITTEN AUTHORISATION FROM THE SITE MANAGER.
9. SITE CLEARING
   CLEARING AND GRUBBING SHALL BE CARRIED OUT TO ALL WORK AREAS AS SPECIFIED AND SHALL INCLUDE THE REMOVAL OF ALL REMAINING TREES (UNLESS NOMINATED TO BE PRESERVED), EXISTING VEGETATION, SURFACE MULCH, TIMBER, FENCES AND ANY OTHER DEBRIS.
10. TOPSOIL STRIPPING
    ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE REMOVED FROM SITE.
11. EARTHWORKS (GENERAL)
    a) LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
    b) EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
    c) ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH SRRC DESIGN & CONSTRUCTION MANUAL AND AS3798.
    d) EXCESS CUT TO BE REMOVED FROM SITE.
    e) ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.
    f) THE PAVEMENT SUBGRADE SHALL BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER IN THE PRESENCE OF THE INSPECTING ENGINEER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.

    TESTING
    a) THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR CBR TESTS, STANDARDS OF COMPACTION AND MATERIAL STANDARDS.
    b) QUALITY TESTS
       QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY
    c) SUBGRADE TESTS
       THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY SRRC DESIGN & CONSTRUCTION MANUAL. THE EXPOSED SUBGRADE IS TO BE INSPECTED BY THE GEOTECHNICAL CONSULTANT TO CONFIRM THAT THE MATERIAL IS SUITABLE FOR REUSE ON SITE . THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

12. FILL MANAGEMENT
    a) EARTHWORKS LIMITS OF CUTTING AND FILLING AS SHOWN ON THE DRAWING TO BE VERIFIED ON SITE. THE ACTUAL LIMITS TO BE DETERMINED ON SITE BY THE CONTRACTOR DURING CONSTRUCTION AND ARE SUBJECT TO THE FINAL APPROVED PAVEMENT DESIGN.
    b) ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE LOCAL AUTHORITY SRRC DESIGN & CONSTRUCTION MANUAL.
    c) THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
    d) ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 AND SRRC DESIGN & CONSTRUCTION MANUAL.
    e) THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND ALL CLEARED AREAS, AND REMOVED FROM SITE.
    f) PRIOR TO THE PLACEMENT OF ANY FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER IN THE PRESENCE OF THE INSPECTING ENGINEER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
    g) DEPRESSIONS FORMED BY THE REMOVAL OF VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
    h) ANY SELECT CLAY FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK AT A MOISTURE CONTENT IN THE RANGE -2% TO +3% OF THE STANDARD OPTIMUM MOISTURE CONTENT, AND BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% UNDER STANDARD COMPACTION AS PER (AS1289 5.1.1/5.2.1). CLAY FILL SHOULD BE COMPACTED USING A MINIMUM 10 TONNE VIBRATING PADFOOT ROLLER. MEASURES SHOULD BE ADOPTED TO ENSURE THAT CLAY FILL MATERIAL IS NOT ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF SUCCEEDING LAYERS OF FILL AND FINAL COVERING WITH ROAD PAVEMENTS.
    i) THE PLACEMENT OF ALL SELECT FILL TO BE INSPECTED, TESTED BY A GEOTECHNICAL ENGINEER DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN ACCORDANCE WITH LEVEL 1 AS DEFINED IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' AND THE SRRC DESIGN & CONSTRUCTION MANUAL.
    j) THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
    k) NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
    l) WHERE UNSUITABLE MATERIAL IN AREAS OF CUT OR FILL IS ENCOUNTERED, THIS WILL BE TREATED AS DIRECTED BY THE GEOTECHNICAL ENGINEER
    m) ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL EROSION AND SEDIMENTATION CONTROL NOTES
    n) ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

13. PROJECT SPECIFICATIONS & STD DRAWINGS
    ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING TMR STD DOCUMENTS:

    TECHNICAL SPECIFICATIONS

MRTS03	DRAINAGE STRUCTURES RETAINING STRUCURES AND EMBANKMENT SLOPE PROTECTION
MRTS04	EARTHWORKS
MRTS05	UNBOUND PAVEMENTS
MRTS11	SPRAYED BITUMINOUS TREATMENTS
MRTS12	SPRAYED BITUMINOUS EMULSION SUFACING
MRTS19	CUTTER OILS
MRTS21	BITUMINOUS EMULSION
MRTS22	SUPPLY OF COVER AGGREGATE
MRTS30	ASPHALT PAVEMENTS

    STANDARD DRAWINGS

SD1043	REINFORCING STEEL STD BAR SHAPES TYPICAL DETAILS AND NOTES DRGS 1 TO 4
SD1243	PRECAST CULVERT HEADWALL CONNECTIONS DRGS 1 TO 3
SD1260 AND 2	RCBOX CULVERTS AND SLAB LINK BOX CULVERTS HEIGHTS 375 TO 600 DRGS 1
SD1271	RC BOX CULVERTS IN ADR AMBER MAPPED WATERWAYS
SD1305 2	CULVERTS HEADWALL AND APPRON FOR PIPE DIA 375 tTO 675 MM DRGS 1 AND
SD1307	CAST INSITU DETAILS FOR 1050 TO 1200 DIA SW CHAMBERS
SD1308	PRECAST ROOF SLAB DETAILS FOR 1050 TO 1200 DIA SW CHAMBERS
SD1356	ROAD EDGE GUIDE POSTS
SD1358	MAINTENANCE MARKER POSTS
SD 1359	CULVERTS INSTALLATION FILLING/BACKFILLING OVER OR AGAINST CULVERTS

14. STORMWATER DRAINAGE
    1. GENERAL
       a. LEVELS ARE REDUCE FROM A.H.D. DATUM .
       b. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SRRC STANDARD DRAWINGS AND THE RELEVANT SPECIFICATIONS.
       c. THE CONTRACTOR TO ENSURE ALL THE CONSTRUCTION SHALL BE ACCORDANCE WITH THE AS/N25 3500.3.2015 AND TO THE SATISFACTION OF THE RELEVANT STANDARD TMR SPECIFICATION.
       d. THE CONTRACTOR SHALL LIAISE WITH AUTHORITIES PRIOR TO COMMENCING WORK TO LOCATE ALL EXISTING SERVICE.
    2. STORMWATER DRAINAGE
       a. ALL PIPES ARE TO BE CLASS 2 STEEL REINFORCED CONCRETE PIPES. UNO.
       b. MANHOLE AND HEADWALLS SHALL BE LOCATED AT THE POSITIONS SHOWN IRRESPECTIVE OF THE PIPE LENGTHS SHOWN. WHERE APPLICABLE FIELD INLETS SHALL BE LOCATED AT THE ACTUAL LOW POINTS.
       c. ALL PITS AND MANHOLES CHAMBER TO BE IN ACCORDANCE WITH TMR STD DRGS MRTS 24 AND MRTS 25.
       d. FOR CONSTRUCTION PURPOSES THE CONTRACTOR SHALL MAKE HIS OWN ASSESSMENT OF GROUND WATER AND ITS LIKELY AFFECT ON THE WORKS AND MAKE ALL DUE ALLOWANCE IN THEIR WORKS PROGRAM.
       e. DRAINAGE AS-CONSTRUCTED DATA PREPARED BY A REGISTERED SURVEYOR TO BE SUPPLIED TO SUPERINTENDENT PRIOR TO PLACEMENT OF PAVEMENT SUBBASE COURSE.
       f. ALL PIT AND MANHOLE COVERS TO BE CLASS D U.N.O.
       g. PIPES AND CULVERTS SHALL BE LAID IN ACCORDANCE WITH DTMR STD DRG 1359.
       h. THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR SUSTAINING FISH LIFE IN STATE CONTROLLED WATERWAYS.
       i. LOCATION AND ALIGNMENT OF ALL STORMWATER DRAINLINES IS TO BE VERIFIED ON SITE WITH THE SITE MANAGER PRIOR TO EXCAVATION. THE DESIGN SURFACE LEVELS OF MANHOLES CULVERTS, HEADWALLS AND OTHER STRUCTURES ARE TO BE VERIFIED ON SITE WITH THE SITE MANAGER.
       ALL DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH SRRC DESIGN & CONSTRUCTION MANUAL.
15. ELECTRICAL RETICULATION
    ALIGNMENTS OF ALL CONDUIT CROSSINGS ARE TO BE VERIFIED ON SITE WITH THE ASSET OWNER PRIOR TO EXCAVATION. ALL TRENCHING AND CONDUIT WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE ENEGEX STANDARD SPECIFICATION. TREATMENT OF POWER POLES WITHIN WORKS AREA TO BE CONFIRMED WITH ENERGEX.
16. COMMUNICATION RETICULATION
    ALIGNMENTS OF ALL CONDUIT CROSSINGS ARE TO BE VERIFIED ON SITE WITH THE ASSET OWNER PRIOR TO EXCAVATION. ALL TRENCHING AND CONDUIT WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE TELSTRA STANDARD SPECIFICATION. TREATMENT OF POWER POLES WITHIN WORKS AREA TO BE CONFIRMED WITH TELSTRA.
17. TOPSOIL REPLACEMENT AND GRASSING
    FOLLOWING COMPLETION OF ROADWORKS CONSTRUCTION AND BULK EARTHWORKS OPERATIONS, THE FULL EXTENT OF VERGES, BATTERS AND DISTURBED ARE RGAS TO BE RE-TOPSOILED TO A MINIMUM DEPTH OF 150mm AND GRASS SEEDED OR HYDRO SEEDED THE SATISFACTION OF COUNCIL'S ENGINEER
18. TESTING
    ALL TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
19. "AS CONSTRUCTED" SURVEY
    "AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE CONTRACTOR'S SURVEYOR. AS WORK PROCEEDS AS CONSTRUCTED SURVEY SHALL BE PROVIDED FOR ALL FINISHED SURFACE LEVELS, STORMWATER PIPES AND PITS AND ALL OTHERS SERVICES. THE CONTRACTOR SHALL SUPPLY ALL AS CONSTRUCTED DOCUMENTS INCLUDING MATERIAL SUPPLY CERTIFICATES, MATERIAL COMPACTION CERTIFICATES, PIPE AND CULVERT SUPPLY DOCKETS, CONCRETE COMPRESSIVE STRENGTH TESTSRESULTS (ALL CONCRETE WORKS), TWO COAT SEAL SEAL DESIGN CERTIFICATES, AS CONSTRUCTED DOCUMENTS IN PDF, CAD AND ADAC FORMAT, STORMWATER CULVERT AND PIPELINE CCTV REPORTS SUFFICIENT FOR THE CERTIFYING ENGINEER TO PREPARE CERTIFICATION OF THE WORKS PRIOR TO THE WORKS BEING SUBMITTED FOR ON-MAIN FOR ON-MAINTENANCE WITH TMR.
20. MAINTENANCE OF SITE CONDITION
    AT THE COMPLETION OF WORKS THE SITE IS TO BE PRESENTED IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
21. CONDUITS
    THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING.

Released under RTI to DTMR

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
GENERAL NOTES SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C001	VERSION: F

FILENAME: N:\Q\Mt walker Rd co\c001 - documents\sub02\04 info\22023 mt walker quarry access rd\03_civil\01_DA\dwg A3\2 acad\C001 GENERAL NOTES.dwg
PLOTTED: 28 Mar 2025

PAVEMENTS

1. THE DESIGN PAVEMENT DEPTHS ALLOWED IN THE EARTHWORKS CALCULATIONS ARE BASED ON THE DEPTHS SHOWN ON THE PRELIMINARY PAVEMENT PROFILES ON DRG C875.
2. THE PAVEMENT DESIGN DEPTHS ARE SUBJECT TO SUB-GRADE INVESTIGATIONS. THE CONTRACTOR IS TO PROVIDE A FULL GEOTECHNICAL INVESTIGATIONS REPORT TO ADDRESS THE PAVEMENT SUBGRADE CBR, CULVERT AND PIPE BASE CONDITIONS, USE OF CUT MATERIAL AS FILL, AND ADVICE ON STABLE BATTERS ALL IN ACCORDANCE WITH TMR REQUIREMENTS.
3. THE SUPERVISING RPEQ WILL CO-ORDINATE THE AUTHORITIES APPROVAL OF THE PAVMEENT DESIGN USING THE ABOVE INFORMATION.

SEDIMENT AND EROSION CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLANS.
2. IDENTIFICATION, TREATMENT AND ON-GOING MANAGEMENT OF ENVIRONMENTAL ISSUES IS TO BE IMPLEMENTED AND MANAGED ON SITE DURING THE CONSTRUCTION PHASE BY THE PRINCIPAL CONTRACTOR WITH REFERENCE TO THE APPROVED PLANS.
3. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED THROUGHOUT THE SITE TO REDUCE THE RISK OF EROSION, MINIMISE THE GENERATION OF SEDIMENTS AND PREVENT OFF-SITE TRANSPORT OF SEDIMENTS AND DUST AT ALL STAGES THROUGH OUT TAG CONTRACT PERIOD.
4. CONTROL MEASURES ARE TO BE PROGRESSIVELY INSTALLED DURING CONSTRUCTION ACTIVITIES FOR THE SITE, TYPICALLY AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. TYPICAL DEVICE DETAILS ARE TO BE CONSTRUCTED AS DETAILED AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE ESC PLANS, MRTS 52 AND BEST PRACTICE EROSION AND SEDIMENT CONTROL IECA.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE REGULARLY MAINTAINED AND INSPECTED FOR EFFECTIVENESS. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE DEVICES MEET THE EROSION MANAGEMENT OBJECTIVES.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION .
7. THE EXTENT AND POSITION OF THE EROSION AND SETTLEMENT CONTROL MEASURES IS TO BE DETERMINED ON SITE BY THE CONTRACTOR TO SUIT THE CONSTRUCTION PROGRAM AND SITE CONDITIONS.
8. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES AND ENSURE THAT THEY MEET TMR STANDARDS.
9. LARGE OPEN AREAS OF STEEP BATTERS SHOULD NOT BE LEFT EXPOSED/UNSTABILISED FOR MORE THAN 10 DAYS OR IF WET WEATHER IS FORECASTED.
10. EXPOSED AREAS INCLUDING BATTERS WHICH REMAIN UNWORKED FOR MORE THAN 10 DAYS SHOULD BE STABILISED USING TEMPORARY HYDRO MULCHING HYDROSEEDING OR MULCHING EVEN IF AREAS WILL BE WORKED ON A LATER STAGE.
11. THE CONTRACTOR SHALL BE AWARE OF ITS RESPONSIBILITIES FOR PROTECTING THE DOWNSTREAM ENVIRONMENT AND RECEIVING WATERS FROM POLLUTION AND ENVIRONMENTAL HARM UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.
12. ADDITIONALY THE CONTRACTOR SHALL BE AWARE OF ITS DUTY TO NOTIFY THE LOCAL AUTHORITY AND THE ENVIRONMENTAL PROTECTION AGENCY (QLD) FOR A POTENTIAL OR ACTUAL INCIDENT OF ENVIRONMENTAL HARM UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.

REQUIRED SEQUENCE

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED FUNCTIONAL PRIOR TO THE COMMENCEMENT OF ANY STRIPPING OR PAVEMENT DEMOLITION WORKS AND IN THE FOLLOWING SEQUENCE;
   a. INSTALL ALL PERIMETER SEDIMENT FENCES;
   b. CONSTRUCT TEMPORARY STABILISED SITE ACCESS INSURING ADJACENT STORMWATER RUN-OFF IS THE WORK DIVERTED AWAY FROM THE ACCESS POINTS;
   c. INSTALL SEDIMENT FENCING IN BARRIER FENCING TO CONFINED INGRESS TO AND EGRESS FROM THE SITE TO STABILISE THE ACCESS POINTS ONLY;
   d. PROVIDE INLET PROTECTION TO STORMWATER INLET HEAD WALLS AND GULLIES AFFECTED BY THE WORKS;
   e. INSTALL UPSTREAM DIVERSION BUNDS TO DIVERT CLEAN WATER AROUND THE WORKSITE;
   f. INSTALL ALL REMAINING TEMPORARY SEDIMENT FENCES
   g. CONSTRUCT ANY NOMINATED SEDIMENT BASIN'S AND SEDIMENT TRAP'S INCLUDING INLET TREATMENTS AND OVERFLOW TREATMENTS;
   h. REINSTATE AND STABILISE ALL DISTURBED AREAS PROGRESSIVELY AS WORKS ARE COMPLETED.TEMPORARY STABILISATION TO BE DONE USING MULCHING HYDRO-MULCHING HYDRO-SEEDING, DIRECT SEEDING OR TURFING TO GIVE A 70% COVERAGE OF GROUND SURFACE WITHIN 14 DAYS OF WORKS COMPLETED EVEN IF WORKS MAY CONTINUE LATER.
   i. MATERIALS FOR TEMPORARY MEASURES SHOULD BE STOCKPILED OR STORED CLOSE TO WHERE THEY ARE REQUIRED IN THE EVENT OF RAINFALL BEING FORECASTED OR EXPERIENCED ON SITE.
   j. THE CONTRACTOR SHALL ARRANGE FOR A SUITABLY SIZED WATER TRUCK TO BE AVAILABLE FOR THE ENTIRE EARTHWORKS STAGE. REFER DUST CONTROL.
2. UNDERTAKE ALL WORKS SO THAT LAND DISTURBANCE IS CONFINED TO THE MINIMUM WORKABLE AREAS.
3. ALL WORK AREAS TO BE DELINEATED BY SECURED BARRIER FENCING, DIVERSION BUND UPSLOPE AND SEDIMENT FENCING DOWNSLOPE.
4. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING VEGETATION AND GROUNDCOVER IS RETAINED AS MUCH AS POSSIBLE.
5. WHERE PRACTICAL TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ON SITE.
6. ALL MATERIAL STOCKPILES SHALL BE LOCATED AWAY FROM AREAS OF CONCENRATED FLOW AND SHALL NOT IN THEMSELVES CAUSE FLOW TO BE CONCENTRATED.
7. ALL STOCKPILES SHALL HAVE A DOWNSLOPE SEDIMENT FENCE OR MULCH BUND INSTALLED. IF A PORTION OF THE STOCKPILE IS ACTIVELY WORKED THE SEDIMENT FENCE OR BUND MUST BE REINSTATED PRIOR TO ANY LIKELIHOOD OF RAINFALL (>10%) AT THE END OF THE DAILY WORKS.
8. A FLOW DIVERSION STRUCTURE SHOULD BE IMPLEMENTED IMMEDIATELY UPSLOPE OF A STOCKPILE IF THE CATCHMENT EXCEEDS 1500m^2.
9. AT ALL TIMES THE CONTRACT ARE SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSLOPE CONSTRUCTION AND RECEIVING ENVIRONMENTS.
10. FINAL SITE LANDSCAPING SURFACE TREATMENTS SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS OF THE CONSTRUCTION OF BATTERS AND OPEN AREAS.
11. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED ONCE THE UPSLOPE SITE IS STABILISED AND COMPLETED TO THE SATISFACTION OF THE SUPERINTENDENT.

DUST SUPPRESSION

1. THE CONTRACT ARE SHALL SECURE A SUITABLE SOURCE OF WATER FOR THE PURPOSE OF DUST SUPPRESSION.
2. DURING WINDY AND DRY WEATHER ANY UNPROTECTED AREAS SHALL BE KEPT MOIST NOT WET BY SPRINKLING WITH WATER UNDER CONTROL.
3. APPLY OPEN WEAVE BARRIER FENCING ON THE WINDWARD SIDE OF SITE FENCING AS REQUIRED.
4. IF VISIBLE DUST EMISSIONS ARE OCCURRING THE WORKS ARE TO CEASE IMMEDIATELY UNTIL DUST CONTROL MEASURES ARE PUT IN PLACE AND ARE SATISFACTORY MITIGATING DUST EMISSIONS.

OTHER MATTERS

1. ACCEPTABLE RECEPTORS AND DISPOSAL PRACTICES WILL BE USED FOR CONCRETE AND MORTAR SLURRY, PAINTS, LITTER, BITUMEN, ASPHALT AND GENERAL WASTE MATERIALS.
2. ANY EXISTING TREES WHICH ARE NOT REQUIRED OR APPROVED TO BE CLEARED FOR THE WORKS AND OR FORM PART OF THE FINAL LANDSCAPING PLAN SHOULD BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   a. PROTECTING THEM WITH BARRIER FENCING OR MARKERS
   b. ENSURING NOTHING IS NAILED TO THEM
   c. PROHIBITING GRADING, PLACING STOCKPILES OR TRACKING MACHINERY WITHIN THE DRIP LINES.
3. ALL VEHICLE AND EQUIPMENT MAINTENANCE, REFUELLING AND CLEANING ACTIVITIES SHOULD BE CONTAINED IN SPECIFIC BONDED AREAS DISCONNECTED FROM CONCENTRATED FLOW PAST AND THE STORMWATER SYSTEM.
4. ON SITE FUEL STORAGE AREAS SHOULD BE COVERED AND BUNDED.

MAINTENANCE OF PUBLIC ROADS

1. ALL CONSTRUCTION VEHICLES DEPARTING THE SITE SHALL HAVE THEIR TYRES CLEANED DOWN AND SETTLED BY A STABILISED ACCESS DEVICE.
2. THE NOMINATED STABILISE SITE ACCESS AREAS SHALL BE LOCATED AS SHOWN AND TREATED WITH A SEDIMENT FENCE OR BUNDED AREA DOWNSTREAM OF THE ACCESS.
3. THE CONTRACTOR SHALL INSPECT THE PUBLIC ROADS ADJACENT TO THE WORKSITES DAILY AND MANUALLY REMOVE ANY SENTIMENT DEPOSITS BY MECHANICAL SWEEPING NOT WASHED DOWN.
4. CARE MUST BE TAKEN WHEN IMPLEMENTING THE ESC MEASURES IMMEDIATELY ADJACENT TO THE ROAD PAVEMENT SO THAT THE EXISTING CATCH DRAIN AND OVERLAND FLOW PATH CAPACITIES ARE NOT IMPEDED OR DIVERTED ONTO THE PAVEMENT.
5. ALL ESC MEASURES AND WORKS WITHIN 10M OF THE EDGE OF THE TRAFFIC LANE MUST BE REVIEWED BY A TRAFFIC CONTROL CONSULTANT AND CONSIDERED IN THE WORKS TRAFFIC CONTROL PLAN.

SITE INSPECTION AND MAINTENANCE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED REGULARLY IMMEDIATELY PRIOR TO PREDICTED LARGE STORM EVENTS AND AFTER EVERY SIGNIFICANT RAINFALL EVENTS OR AT LEAST ON A WEEKLY BASIS.
2. THE CONTRACTOR WILL AS A MINIMUM CONDUCT EACH INSPECTION IN LINE WITH THE FOLLOWING
   a. RECORD THE TYPE OF DEVICE CONTROL MEASURE BEING INSPECTED AND ITS LOCATION AND CONDITION;
   b. RECORD ALL MAINTENANCE REQUIREMENTS FOR THE CONTROL DEVICE;
   c. ASSESS AND RECORD SEDIMENT VOLUMES REMOVED FROM THE SEDIMENT TRAPPING DEVICES
   d. RECORD DETAILS OF SEDIMENT BASIN TREATMENT FLOCCULENT DOSAGES AND CLEANUP
   e. RECORD SEDIMENT DISPOSAL PROCEDURES AND LOCATION;
   f. COMMENT ON THE PERFORMANCE OF THE DEVICE AND RECOMMENDATIONS FOR ANY REMEDIAL ACTION.
3. ALL REPAIRS AND MAINTENANCE OF THE DEVICES AND MEASURES SHALL BE UNDERTAKEN AS REQUIRED ENSURING THAT ALL MEASURES ARE FULLY FUNCTIONAL AT ALL TIMES.
4. ENSURE THAT SEDIMENT LADEN WATER HAS NOT BEEN DIVERTED AROUND DEVICES AND IF SO PROVIDE PLAN FOR CLEAN UP.
5. REPAIR SCOUR DAMAGE AFTER RAINFALL EVENTS AND REINSTATE DEVICES AS NECESSARY.
6. SEDIMENT FENCES WILL REQUIRE CLEANING WHEN SEDIMENT REACHES APPROXIMATELY 300 MM DEPTH OR ONE-HALF OF THE HEIGHT OF THE FILTER FABRIC. ALL OTHER SEDIMENT TRAPS WILL REQUIRE CLEANING OUT WHEN 30% OF THE CAPACITY IS REACHED.
7. ALL INTERNET AND GULLY TRAPS TO BE CLEANED (NOT HOSED) AFTER EVERY RAINFALL EVENT 1 TO 5 MM OR AT LEAST ON A WEEKLY BASIS.
8. SENTIMENT REMOVED FROM ANY TRAPPING DEVICE IS TO BE RELOCATED TO ENSURE THAT FURTHER POLLUTION TO THE DOWNSTREAM ENVIRONMENTS WILL NOT OCCUR.
9. ALL AREAS THAT ARE TREATED WITH HYDROSEED, GRASS SEEDED OR TURFING REQUIRE REGULAR WATERING UNTIL EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOUROUSLY. WATERING SHOULD VARY DEPENDING ON WEATHER AND SOIL CONDITIONS.
10. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE INSPECTION AND MAINTENANCE OF DEVICES IS UNDERTAKEN ON SITE.
11. ALL SITE WASTE INCLUDING GENERAL RUBBISH SHALL BE DISPOSED OF IN AN ENVIRONMENTALLY RESPONSIBLE MANNER IN ACCORDANCE WITH THE SITES WASTE MANAGEMENT PLAN.
12. THE CONTRACTOR SHALL CONSTRUCT AND IMPLEMENT ANY ADDITIONAL MEASURES AS NECESSARY TO ENSURE PROTECTION OF THE DOWNSTREAM ENVIRONMENTS.
13. THE CONTRACT ARE SHALL IDENTIFY ANY NON-CONFORMANCES WITH THE REQUIREMENTS OF THIS DOCUMENT APPROPRIATE CORRECTIVE ACTION SHALL BE IMPLEMENTED TO ENSURE THAT THE NON-CONFORMANCES DO NOT RECUR.
14. IN THE EVENT THAT A MONITORING PROGRAM DETECTS A NOTABLE FAILURE TO ACHIEVE THE REQUIRED OF CONTROL SITE, SEDIMENT OR DUST THE SITE SHALL BE INVESTIGATED BY A SUITABLE QUALIFIED ENGINEER AND THE ESCP SUITABLY MODIFIED TO ENSURE INCIDENTS DO NOT RECUR.

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Not for construction

FILENAME: N:\Qld\mt walker 1fd ca\sub02$ - documents\sub02$014 (mta22023) mt walker quarry access rd\13. civil\01 DA\Rev A\A2. dwg\C001 GENERAL NOTE.dwg

PLOTTED: 28 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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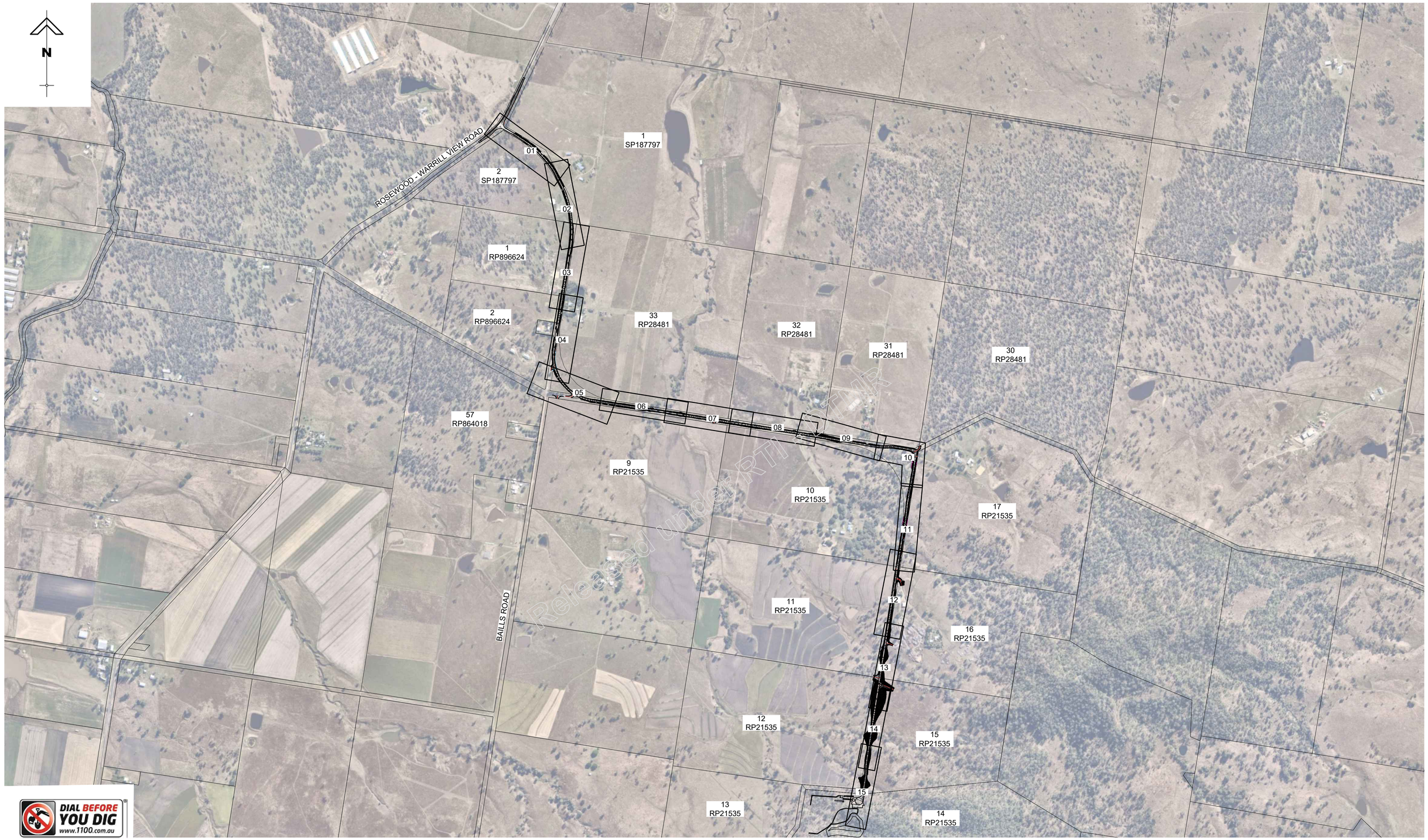
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
GENERAL NOTES SHEET 2 OF 2

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C002	VERSION: F



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VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD SITE
LAYOUT PLAN

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C013 / VERSION: F

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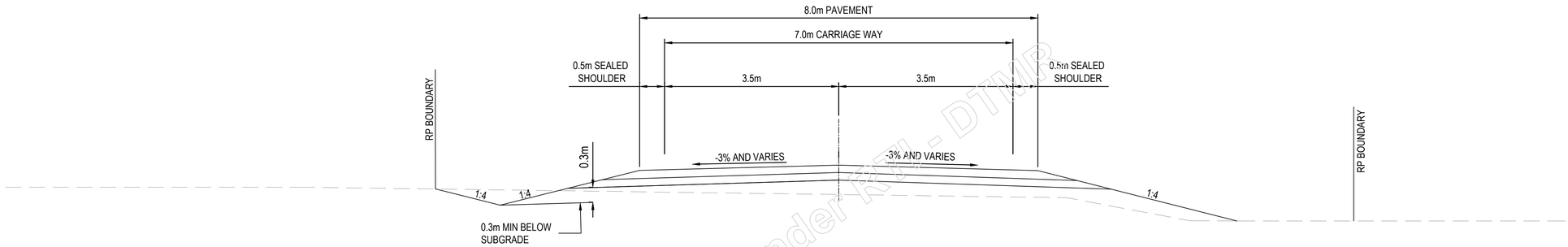
PLOTTED: 28 Mar 2025

RTI-Release.pdf - Page Number: 32 of 448



TYPICAL SEALED ROAD SECTION CH 80.00 TO END

SCALE 1.0 0 1.0 2.0 (metres)

1 : 50 AT A1

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NOTES:

1. TABLE DRAINS STEEPER THAN 5% SHOULD HAVE EROSION PROTECTION MEASURES INSTALLED.
2. CUT BATTER SLOPES MAY BE VARIED ON SITE TO ENSURE LONG TERM STABILITY OF BATTERS. AS ADVISED BY GEOTECHNICAL ENGINEER.
3. MINIMUM SLOPE OF TABLE DRAIN INVERTS SHALL BE 1% (1 IN 100).
4. ACCESS POINTS CONSTRUCTED TO LOT FRONTAGES AT A MAXIMUM SLOPE OF 1 IN 6. INSTALLATION IN ACCORDANCE WITH SRRC R-08 OR R-09.
5. FOR PAVEMENT DESIGN REQUIREMENTS, REFER TO PAVEMENT PLANS.
6. AADT TO BE BASED ON QUARRY PROJECTED TRUCK MOVEMENTS OVER 20 YEARS AND USE 8 VEHICLES PER DAY PER TOTAL LOTS.
7. CURVE WIDENING AND RESTRICTED VISIBILITY WIDENING OVER CRESTS TO BE DETERMINED BY ROAD DESIGN.
8. SEAL DESIGN IN ACCORDANCE WITH AUSTROADS SPRAY SEAL DESIGN MANUAL.
9. ALL DIMENSIONS IN METRES UNLESS SHOWN OTHERWISE.

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD TYPICAL SECTION

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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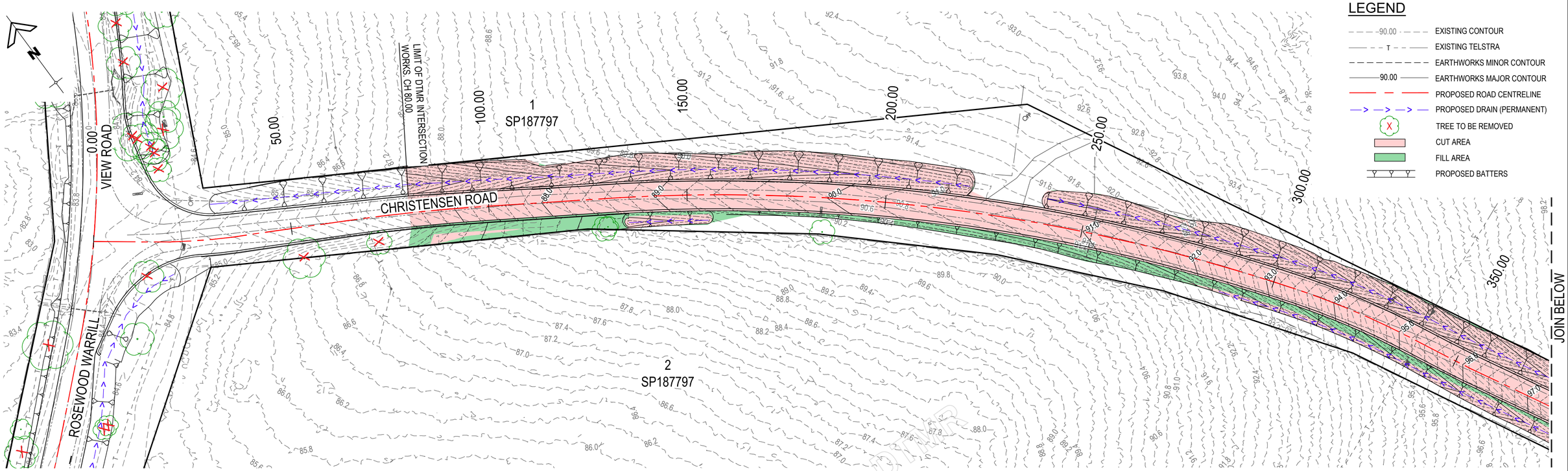
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C014	VERSION: F

PLOTTED: 28 Mar 2025
FILENAME: N:\Q\qe vietnam ltd\ca\ca025 - documents\ca025014 (nfq22923) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C003 ROADWORKS TYPICAL SECTION.dwg



EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 80 TO CH 750)
CUT = 4,602 m^3
FILL = 133 m^3
BALANCE = 4,469 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 1 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C200 / VERSION: C

PLOTTED: 21 Mar 2025
FILENAME: N:\QLD\mt walker mq ca\sub\05 - documents\sub\05dbl\ mtq22923.dwt walker quarry access rd\03. civil\01 DA\dwg A3\02 earthworks layout A3.dwg

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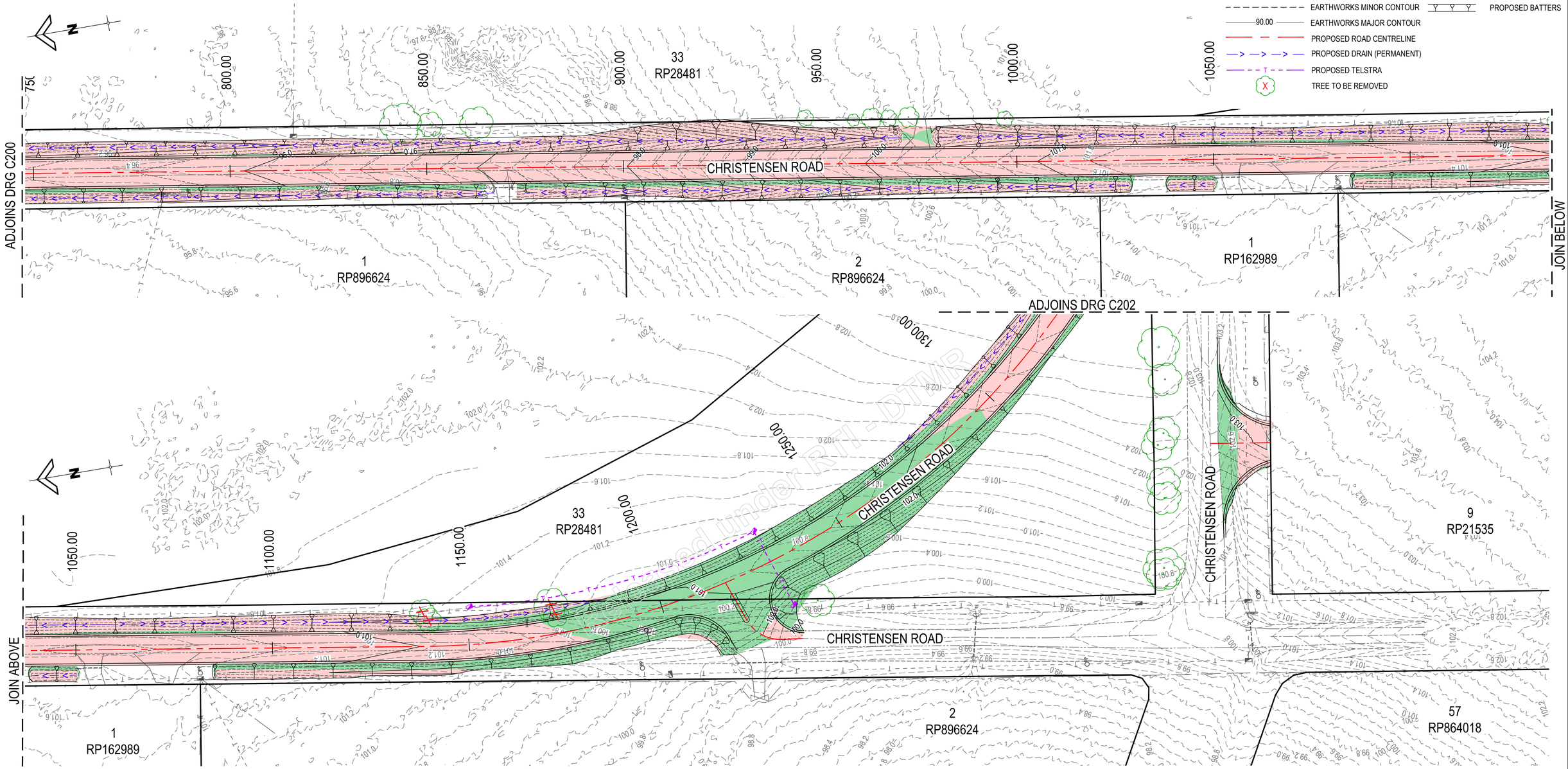
LEGEND

- EXISTING CONTOUR
- EXISTING TELSTRA
- EARTHWORKS MINOR CONTOUR
- EARTHWORKS MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- PROPOSED TELSTRA
- TREE TO BE REMOVED
- CUT AREA
- FILL AREA
- PROPOSED BATTERS



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EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 750 TO CH 1300)
CUT = 2,174 m^3
FILL = 1,086 m^3
BALANCE = 1,088 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 2 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C201	VERSION: C

FILENAME: N:\Qld\Jobs\Mt Walker Quarry Upgrade\210173 - Documents\Sub\250314 Info\210173 MT Walker Quarry access v3\03_Civil\01_DRA\Dwg A\A2_dwgs\C200 EARTHWORKS LAYOUT PLAN.dwg
PLOTTED: 28 Mar 2025

ADJOINS DRG C201

JOIN BELOW

JOIN ABOVE

ADJOINS DRG C203

CHRISTENSEN ROAD

2
RP896624

33
RP28481

9
RP21535

1300.00
1350.00
1400.00
1450.00
1500.00
1550.00
1600.00
1650.00
1700.00
1750.00
1800.00
1850.00
1900.00

LEGEND

- EXISTING CONTOUR
- EXISTING TELSTRA
- EARTHWORKS MINOR CONTOUR
- EARTHWORKS MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- TREE TO BE REMOVED
- CUT AREA
- FILL AREA
- PROPOSED BATTERS

EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 1300 TO CH 1900)
CUT = 2,551 m^3
FILL = 1,376 m^3
BALANCE = 1,175 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

SCALE 1 : 500 AT A1 (1 : 1000 AT A3)
5 0 5 10 15 20 25 (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN:-671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 3 OF 7

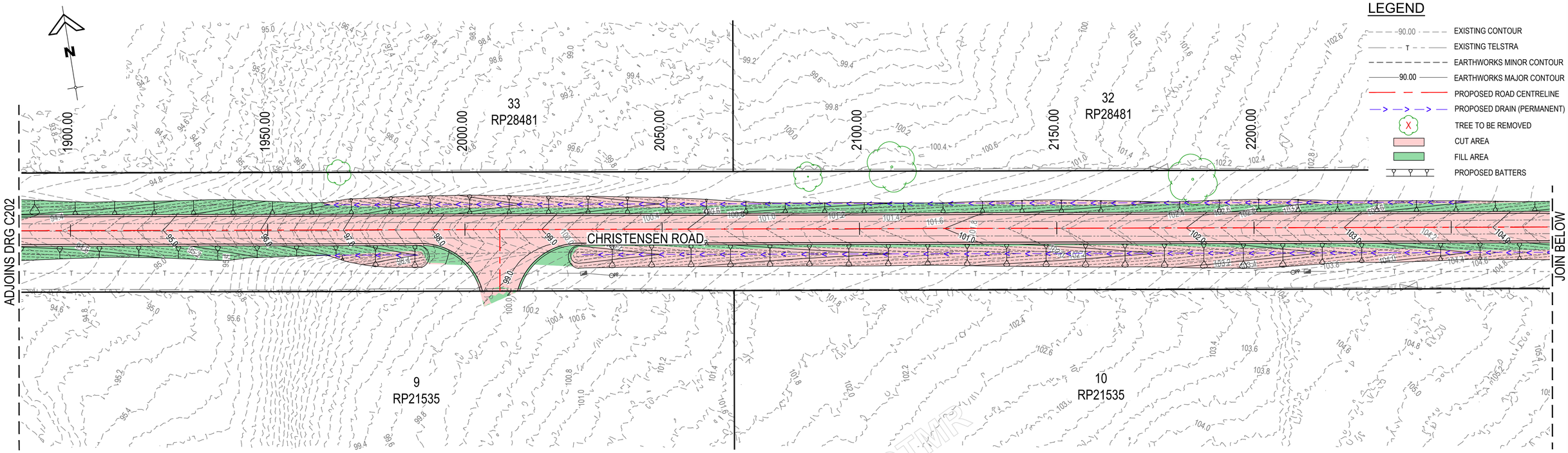
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

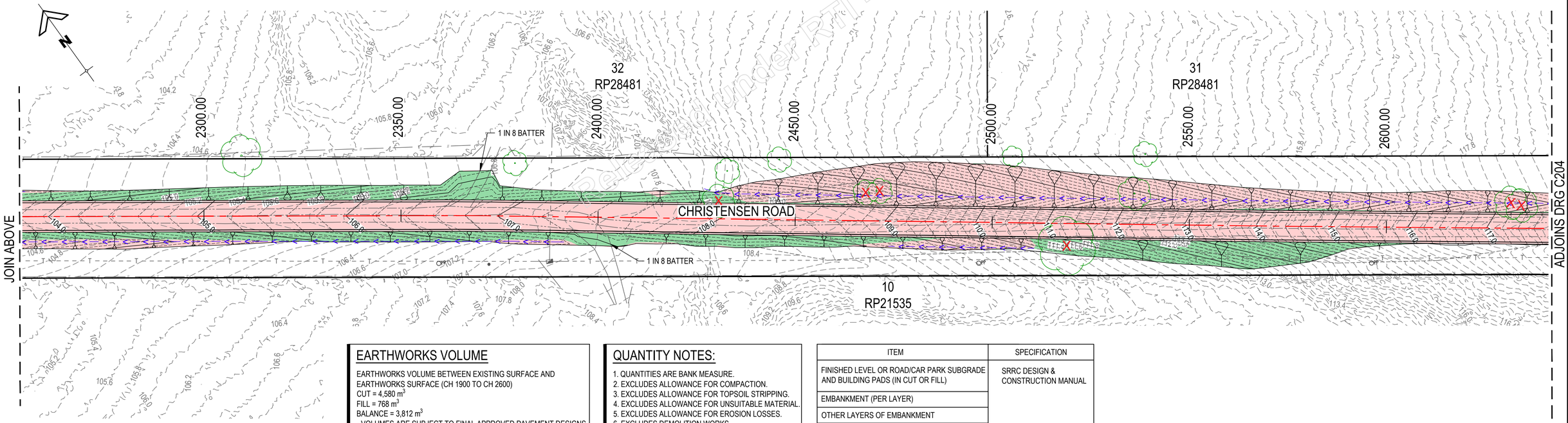
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C202	VERSION: C

FILENAME: N:\Q1\ad_walkergravel_ltd.co\wip\215 - documents\wip\215dev_info\220220 mt walker quarry access rd\03_civil\01_DA\dwg\ A1\02a_prod\C202 EARTHWORKS LAYOUT PLAN.dwg
PLOTTED: 28 Mar 2025

RTI-Release.pdf - Page Number: 36 of 448





EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 1900 TO CH 2600)
CUT = 4,580 m^3
FILL = 768 m^3
BALANCE = 3,812 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN - 671 139 843
M - N/R
E - N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 4 OF 7

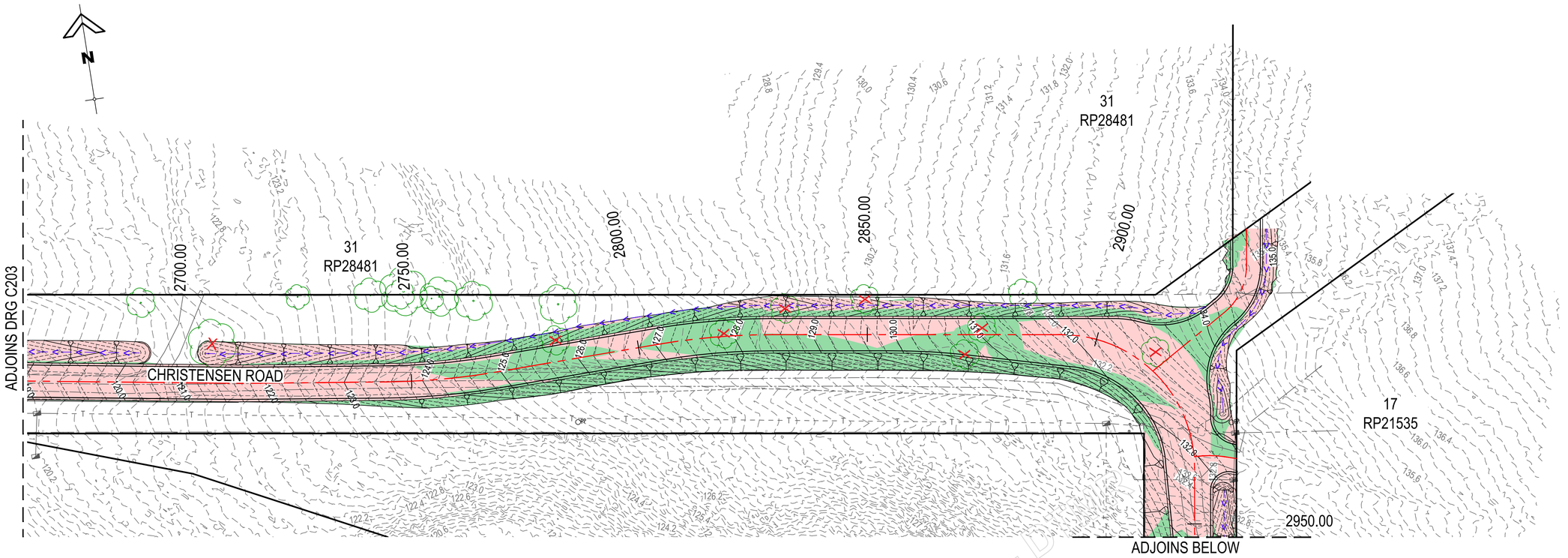
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

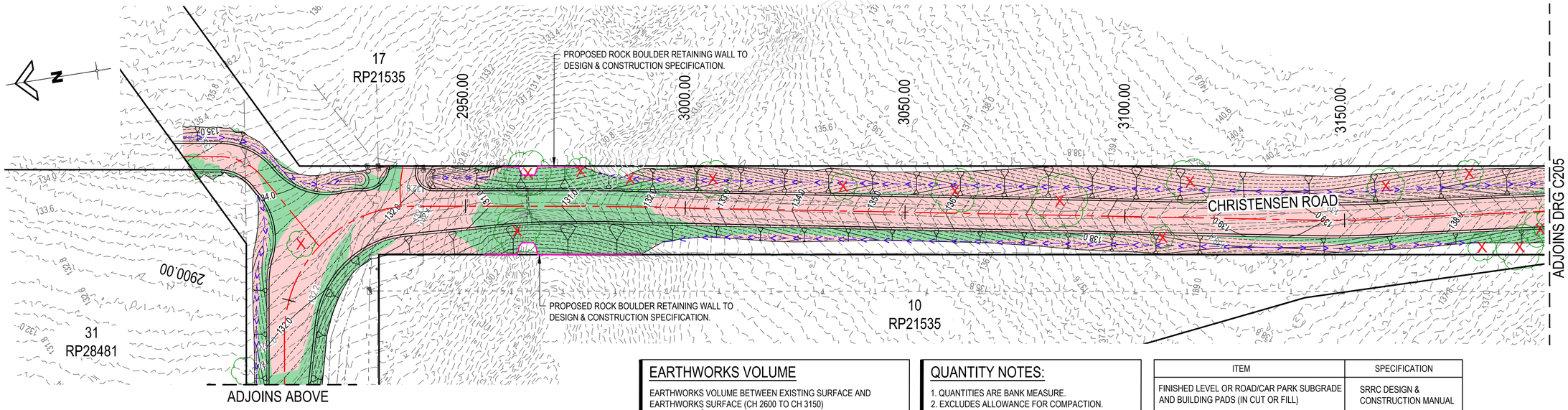
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C203	VERSION: C

FILENAME - N:\Q\qet_walmon ltd.ca\qet075 - documents\qet075\dwg\c_int\qet2292b mt walker quarry access rd\03_civil\01_DA\dwg A3\02_qet0\C203 EARTHWORKS LAYOUT PLAN.dwg
PLOTTED - 28 Mar 2025

RTI-Release.pdf - Page Number: 37 of 448





EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 2600 TO CH 3150)
CUT = 2,440 m^3
FILL = 1,079 m^3
BALANCE = 1,361 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

ISSUE FOR APPROVAL

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

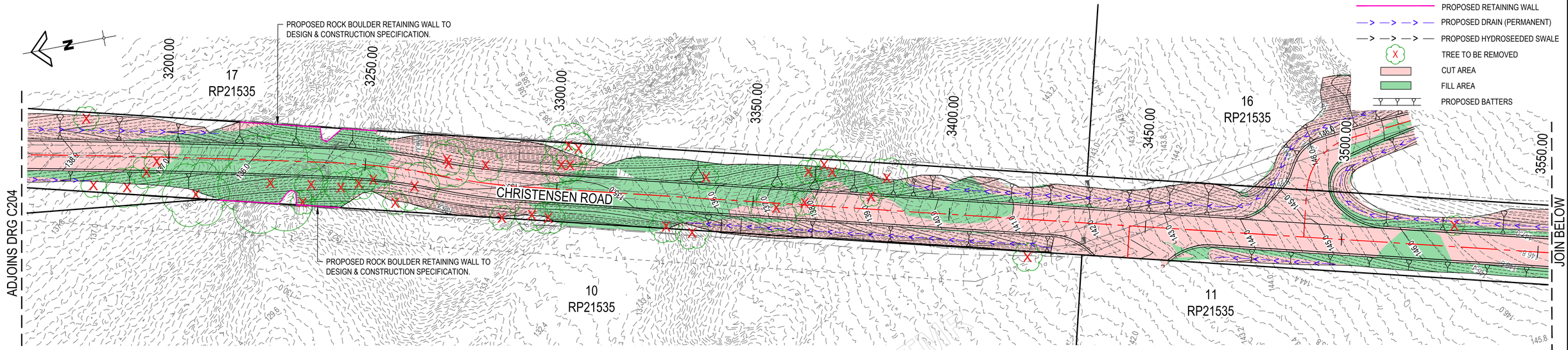
DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 5 OF 7

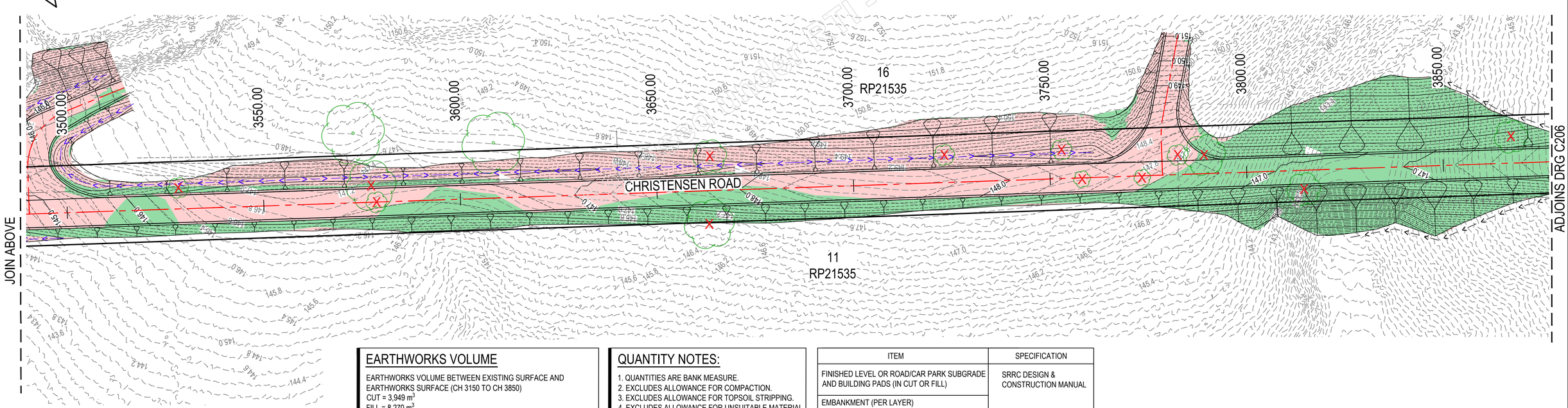
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C204 / VERSION: C

FILENAME: N:\Qld\Projects\210173P\Civil\Drawings\Working\210173P_C204_EARTHWORKS LAYOUT PLAN.dwg
PLOTTED: 28 Mar 2025

LEGEND

- EXISTING CONTOUR
- EXISTING TELSTRA
- EARTHWORKS MINOR CONTOUR
- EARTHWORKS MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED RETAINING WALL
- PROPOSED DRAIN (PERMANENT)
- PROPOSED HYDROSEEDED SWALE
- TREE TO BE REMOVED
- CUT AREA
- FILL AREA
- PROPOSED BATTERS





EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 3150 TO CH 3850)
CUT = 3,949 m^3
FILL = 8,270 m^3
BALANCE = 4,321 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

ISSUE FOR APPROVAL

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN - 671 139 843
M - N/R
E - N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 6 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C205	VERSION: C

FILENAME: N:\Q\Cgt vantage ltd ca\job\25 - documents\job\25014 (nfa)\2023 mt walker quarry access rd\03. civil\01. DA\Rev A\02. dwg\C205 EARTHWORKS LAYOUT PLAN.dwg
PLOTTED: 28 Mar 2025

LEGEND

- EXISTING CONTOUR (90.00)
- EARTHWORKS MINOR CONTOUR
- EARTHWORKS MAJOR CONTOUR (90.00)
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- PROPOSED HYDROSEEDED SWALE
- TREE TO BE REMOVED (X)
- CUT AREA
- FILL AREA
- PROPOSED BATTERS

ADJOINS DRG C205

JOIN BELOW

JOIN ABOVE

CHRISTENSEN ROAD

15 RP21535

16 RP21535

11 RP21535

12 RP21535

14 RP21535

3850.00 3900.00 3950.00 4000.00 4050.00 4100.00 4150.00 4200.00

4150.00 4200.00 4250.00 4300.00 4350.00 4400.00 4450.00

EXCAVATION UNDER QUARRY OPW APPROVAL.

4483.07

EARTHWORKS VOLUME

EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE (CH 3850 TO CH END)
CUT = 39,571 m^3
FILL = 20,266 m^3
BALANCE = 19,305 m^3
- VOLUMES ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS
- PAVEMENT BOXOUT DEPTH TO BE:
580mm CH 0.00 TO CH 1500.00
880mm CH 1500.00 TO CH 2700.00
580mm CH 2700.00 TO END.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD/CAR PARK SUBGRADE AND BUILDING PADS (IN CUT OR FILL)	SRRC DESIGN & CONSTRUCTION MANUAL
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

ISSUE FOR APPROVAL

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN: 671 139 843
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E N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

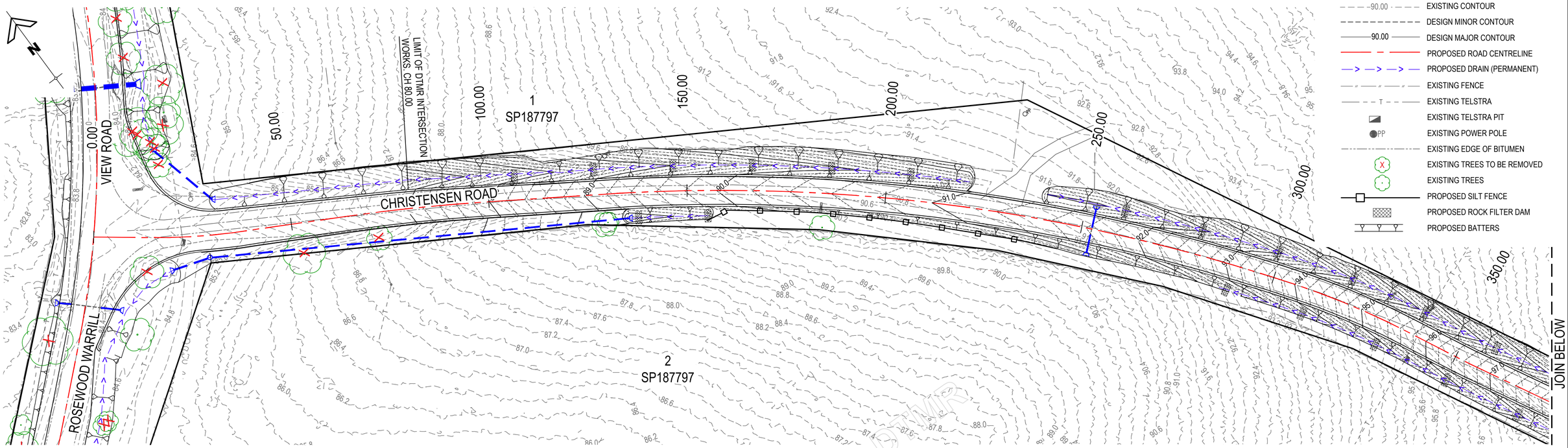
DRAWING TITLE :
CHRISTENSEN ROAD
EARTHWORKS LAYOUT PLAN
SHEET 7 OF 7

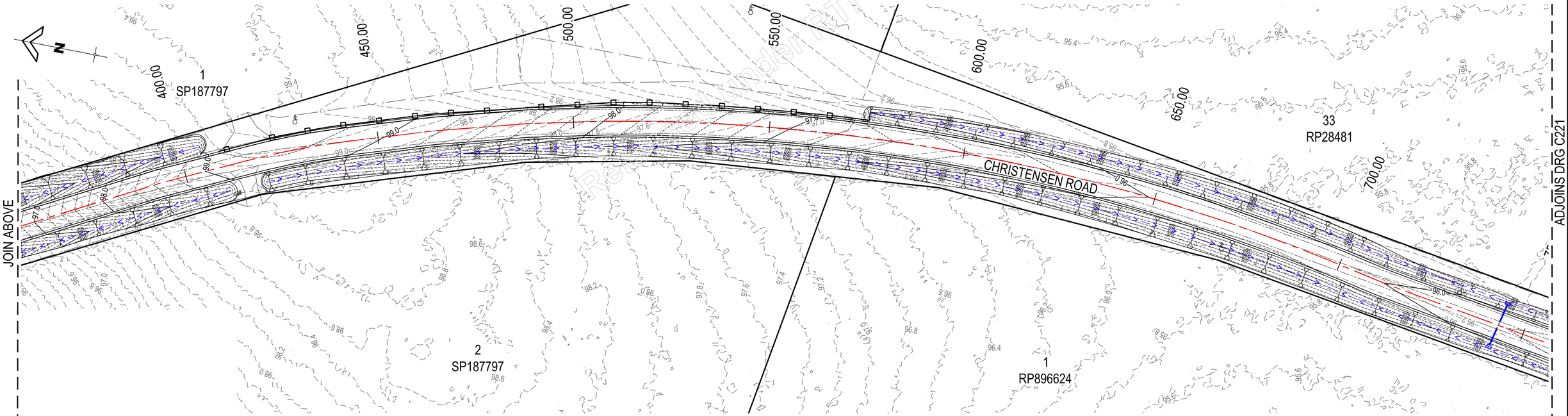
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C206	VERSION: C

FILENAME: N:\GC\qc_walkmon ltd.ca\qc\075- documents\qc075016- info\27929 mt walker quarry access rd\03- civil\01- DA\dwg A1\02- acad\C206 EARTHWORKS LAYOUT PLAN.dwg
PLOTTED: 21 Mar 2025





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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

FILENAME: N:\Q\Cad\ration ltd\cad\215 - documents\cad\25014 rtd\22023 mt walker quarry access rd\03_civil\01_DA\Dwg A\02_dwg\C220 SEDIMENT AND EROSION CONTROL PLAN.dwg

PLOTTED: 28 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN - 671 130 843
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

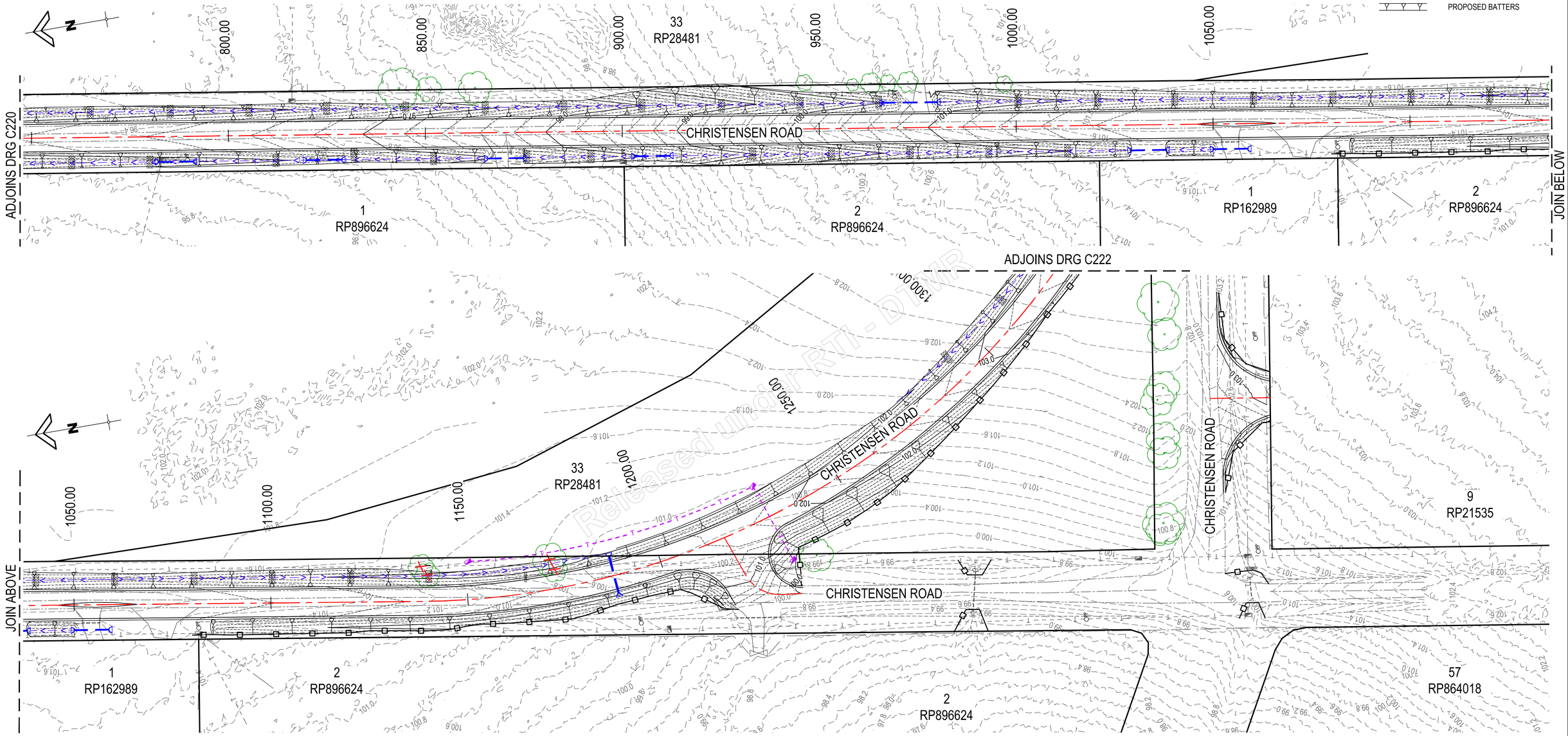
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C220	VERSION: C

RTI-Release.pdf - Page Number: 41 of 448

LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED SILT FENCE
- PROPOSED ROCK FILTER DAM
- PROPOSED TELSTRA
- PROPOSED BATTERS



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ISSUE FOR APPROVAL

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SCALE 1 : 500 AT A1 (1 : 1000 AT A3) — 5 0 5 10 15 20 25 (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 671 439 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C221	VERSION: C

PLOTTED: 28 Mar 2025
FILENAME: N:\GC\set_walkman_ltd_co\s\s0025 - documents\s\s0025#x_info\22\221 mt walker quarry access rd\03_cad\C220_SEDIMENT AND EROSION CONTROL PLAN.dwg

LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED SILT FENCE
- PROPOSED ROCK FILTER DAM
- PROPOSED BATTERS

ADJOINS DRG C221

CHRISTENSEN ROAD

2
RP896624

33
RP28481

9
RP21535

1300.00 1350.00 1400.00 1450.00 1500.00

JOIN BELOW

JOIN ABOVE

ADJOINS DRG C223

155 1600.00 1650.00 1700.00 1750.00 1800.00 1850.00 1900.00

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

FILENAME: N:\Q\1\qc_various (lg cx\sub\25 - documents\sub\25414 (rfa)\22023 mt walker quarry access rd\13_civil\01_DWG\Rev A\A2_dwg\C229 SEDIMENT AND EROSION CONTROL PLAN.dwg

PLOTTED: 28 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

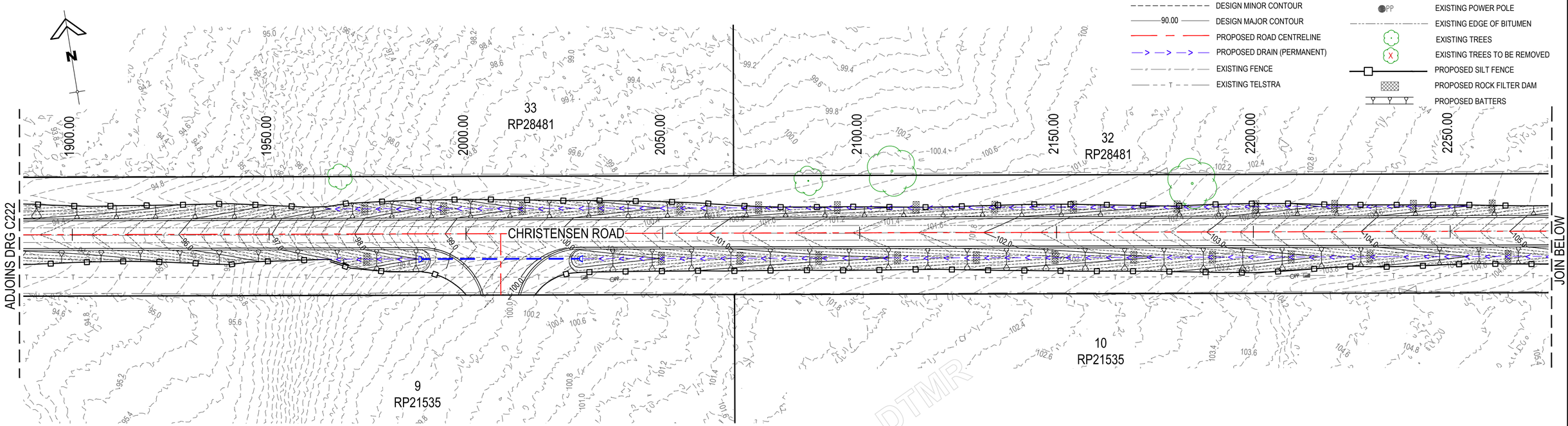
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

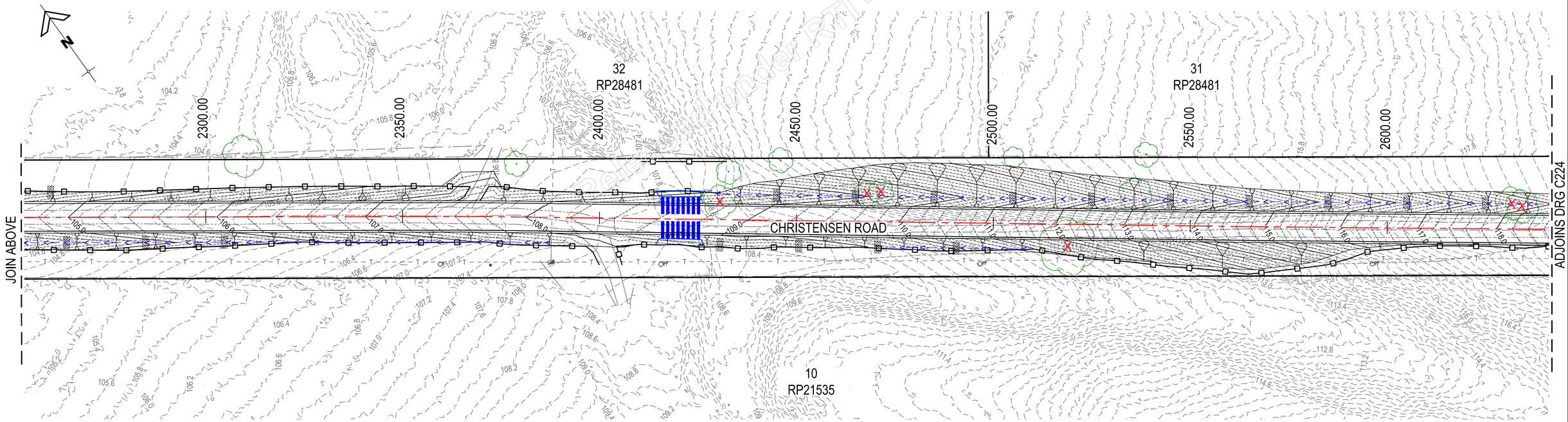
DRAWING TITLE :
SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C222 / VERSION: C

LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED SILT FENCE
- PROPOSED ROCK FILTER DAM
- PROPOSED BATTERS





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SCALE 1 : 500 AT A1 (1 : 1000 AT A3) — 5 0 5 10 15 20 25 (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN - 671 130 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 7

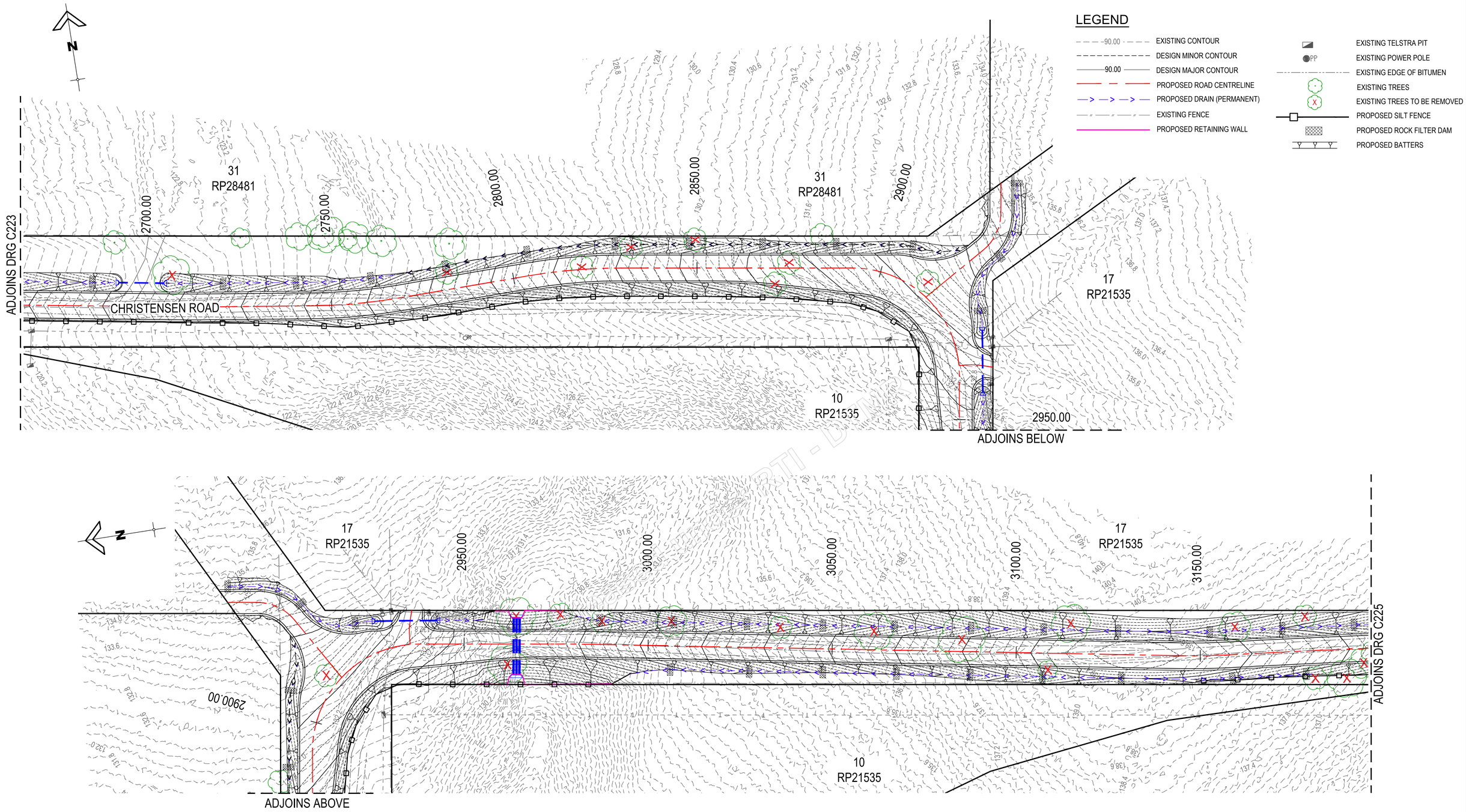
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C223	VERSION: C

PLOTTED: 28 Mar 2025
FILENAME: N:\QS\cad workspace (fd cx\qs025 - documents\qs025014 mtw22023 mt walker quarry access rd\s3_civil\S3_DA\Rev A\A2_asset\C226 SEDIMENT AND EROSION CONTROL PLAN.dwg

RTI-Release.pdf - Page Number: 44 of 448



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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN : 071 139 843
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SEDIMENT AND EROSION CONTROL PLAN SHEET 5 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

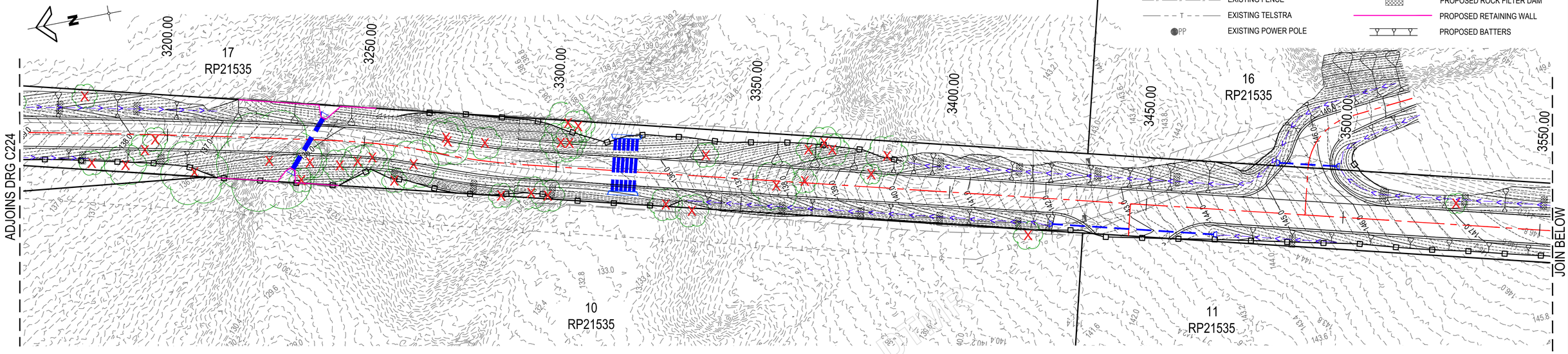
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C224	VERSION: C

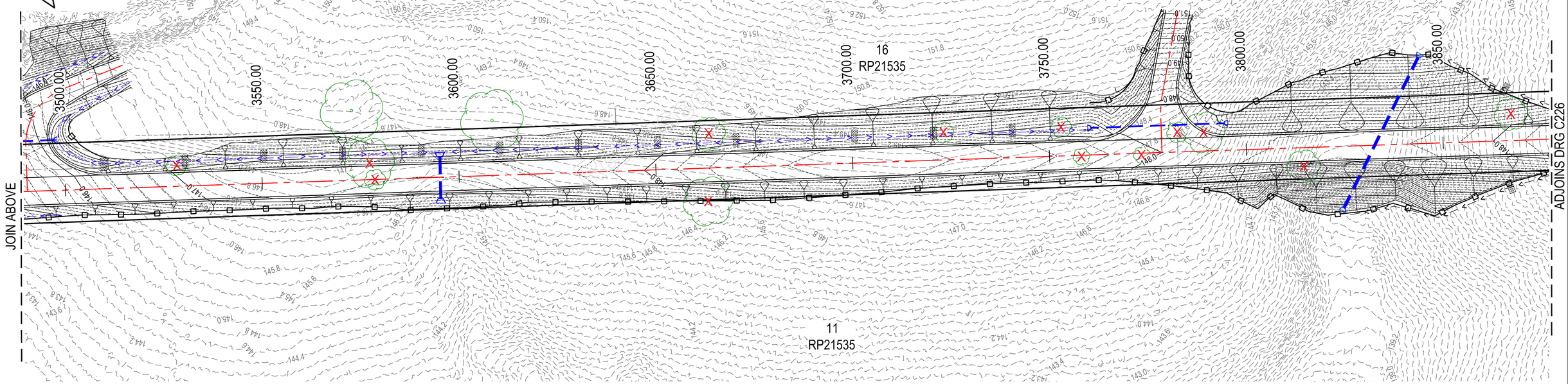
PLOTTED: 28 Mar 2025
FILENAME: N:\Q\Qet walmon ltd co\sub\025 - documents\sub\025dtq_info\223231 mt walker quarry access rd\03_civil\01_DA\Rev A\A2_dgn\C220_SEDIMENT AND EROSION CONTROL PLAN.dgn

RTI - Released

LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING POWER POLE
- EXISTING TELSTRA PIT
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED SILT FENCE
- PROPOSED ROCK FILTER DAM
- PROPOSED RETAINING WALL
- PROPOSED BATTERS





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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN - 671 139 843
M N/R
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 7

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C225	VERSION: C

FILENAME: N:\Q\qcf_various ltd (c\sub\25 - documents\sub\25014 (mtw22023) mt walker quarry access rd\03_civil\01_DWGs\dwg A3\22_dwgs\C226 SEDIMENT AND EROSION CONTROL PLAN.dwg
PLOTTED: 28 Mar 2025

LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- PROPOSED HYDROSEEDED SWALE
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED SILT FENCE
- PROPOSED ROCK FILTER DAM
- PROPOSED BATTERS

ADJOINS DRG C206

JOIN BELOW

JOIN ABOVE

16 RP21535

15 RP21535

11 RP21535

12 RP21535

14 RP21535

EXCAVATION UNDER QUARRY OPW APPROVAL.

MOUNT WALKER QUARRY SITE

3850.00 3900.00 3950.00 4000.00 4050.00 4100.00 4150.00

4150.00 4200.00 4250.00 4300.00 4350.00 4400.00 4450.00

4483.07

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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SOUTHPORT PARK QLD 4215
ACN - 671 439 843
M N/R
E N/R@nigelfletcherassociates.com.au

PROJECT:

MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :

SEDIMENT AND EROSION CONTROL PLAN SHEET 7 OF 7

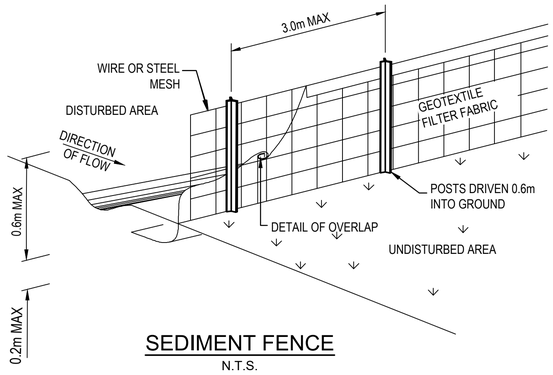
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C226	VERSION: C

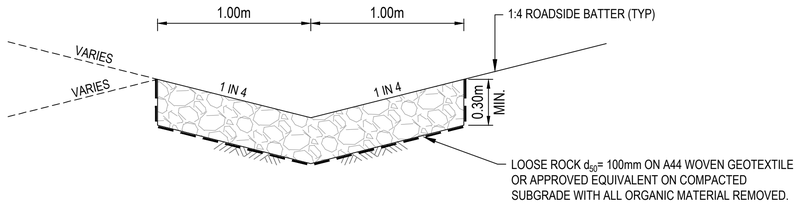
FILENAME: N:\QA\Cad standards\CAD\25 - documents\sub\25014 mtw\22023 mt walker quarry access rd\03 civil\01 DIA\Rev A\02 acad\C226 SEDIMENT AND EROSION CONTROL PLAN.dwg

PLOTTED: 28 Mar 2025

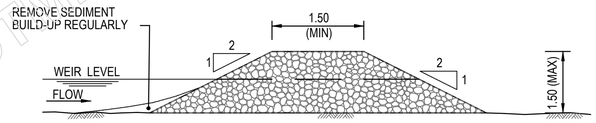


SEDIMENT FENCE
N.T.S.

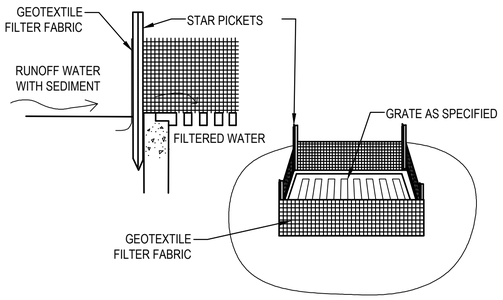
NOTE: REFER TO IECA STANDARD DRAWINGS & NOTES FOR ALL ADDITIONAL SEDIMENT CONTROL DETAILS.



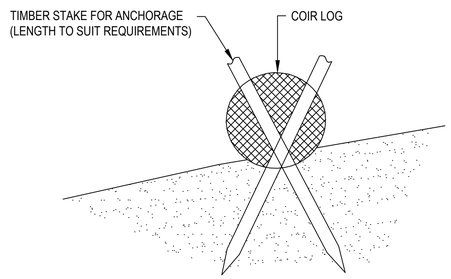
PROPOSED DRAIN ((PERMANENT))
(MIN. FALL 1%)
SCALE 1:20



DRAIN LONGITUDINAL SECTION ROCK FILTER DAM
SCALE 1:50



GEOTEXTILE FILTER PIT SURROUND
N.T.S.



STAKED COIR LOG DETAIL
N.T.S.

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SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 AT A1

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	05.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SEDIMENT AND EROSION CONTROL DETAILS

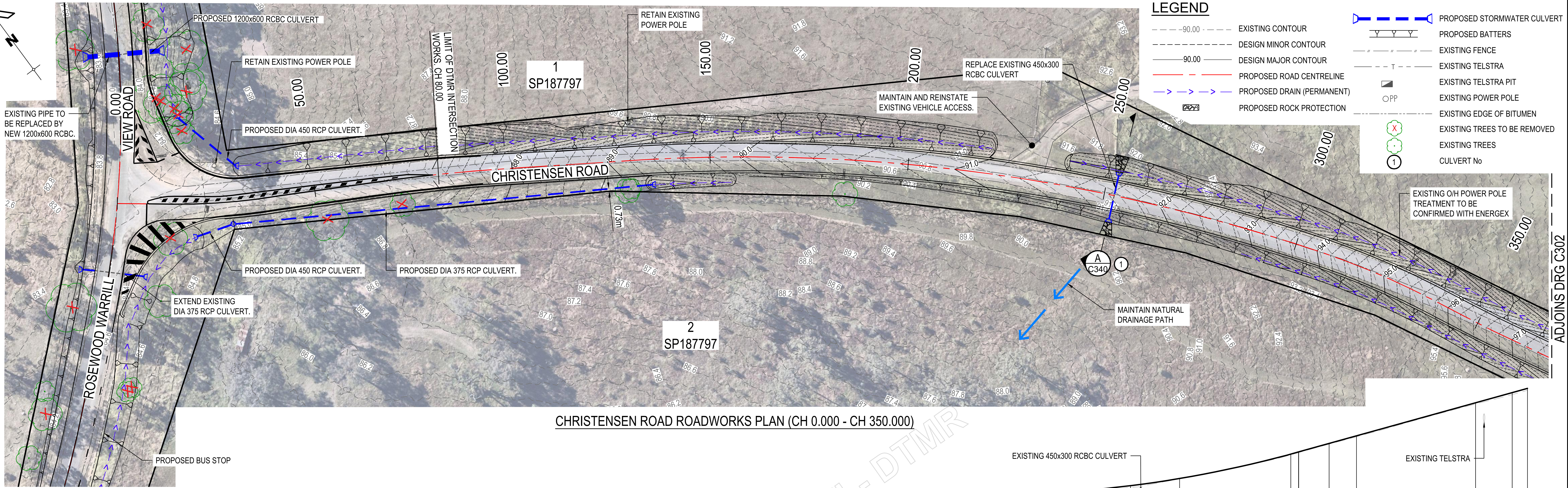
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

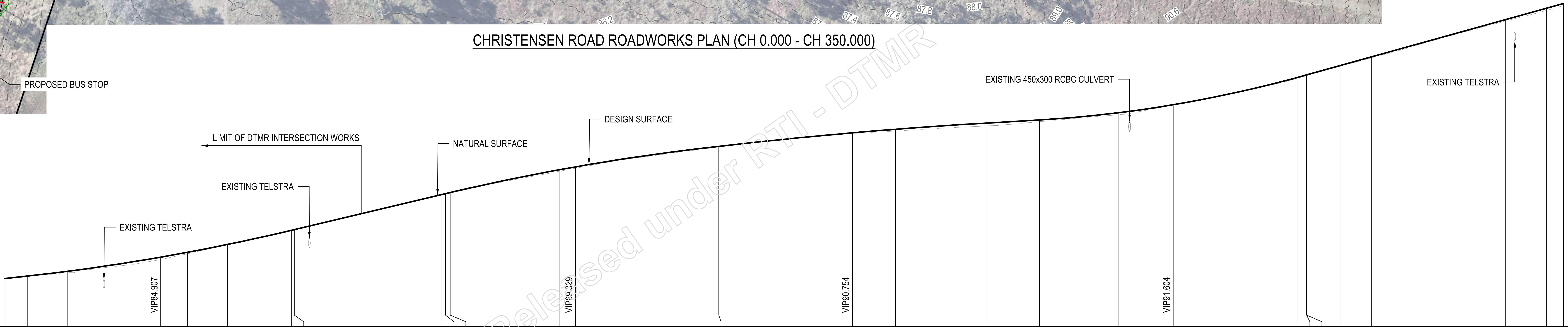
SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C227	C

FILENAME: N:\Qld\Projects\2021\210173P - documents\cad\C227 - mt walker quarry access rd\3d\ mt walker quarry access rd\3d_ins\01_DA\Dwg A3\2_dwgs\C229 SEDIMENT AND EROSION CONTROL PLAN.dwg
PLOTTED: 28 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 0.000 - CH 350.000)



DATUM R.L. 82.00

GRADE / LENGTH: 2.21 % — VC 60.0 23.63 K — 4.75 % — VC 60.0 24.42 K — 2.29 % — VC 60.0 53.98 K — 1.18 % — VC 60.0 13.73 K — 5.55 %

HORIZIONTAL ALIGNMENT ARC LENGTHS: 27.02m / -150.00m — 34.54m / 450.00m — 165.92m / 450.00m — 14.57m / 340.00m — 29.99m / 200.00m — 7.92m / -500.00m

CHAINAGE	CUT/FILL	DESIGN CENTRELINE	NATURAL SURFACE
0.000			84.133
4.987	0.020	84.244	84.225
13.995	0.070	84.461	84.391
34.987	0.110	85.098	84.987
41.012	0.064	85.315	85.251
50.000	0.020	85.667	85.647
64.400	-0.011	86.304	86.315
64.987	-0.011	86.332	86.343
98.108	0.033	87.904	87.871
98.941	0.034	87.944	87.909
100.000	0.035	87.993	87.958
124.427	0.068	89.012	88.944
128.108	0.062	89.144	89.083
150.000	0.050	89.817	89.767
158.108	0.037	90.016	89.979
160.308	0.031	90.067	90.035
190.308	0.028	90.671	90.642
200.000	0.078	90.830	90.752
220.308	0.127	91.108	90.981
232.329	0.076	91.250	91.174
250.000	0.089	91.572	91.483
262.329	0.017	91.932	91.915
290.347	0.036	93.160	93.124
292.329	0.035	93.269	93.234
292.346	0.035	93.270	93.235
300.000	0.033	93.694	93.661
306.918	0.042	94.078	94.037
336.912	0.061	95.743	95.682
346.160	0.095	96.256	96.161
350.000	0.094	96.469	96.375

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 0.000 - CH 350.000)

VERTICAL SCALE 1:100 (meters)
HORIZONTAL SCALE 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M N/R
E N/R @nigelfletcherassociates.com.au

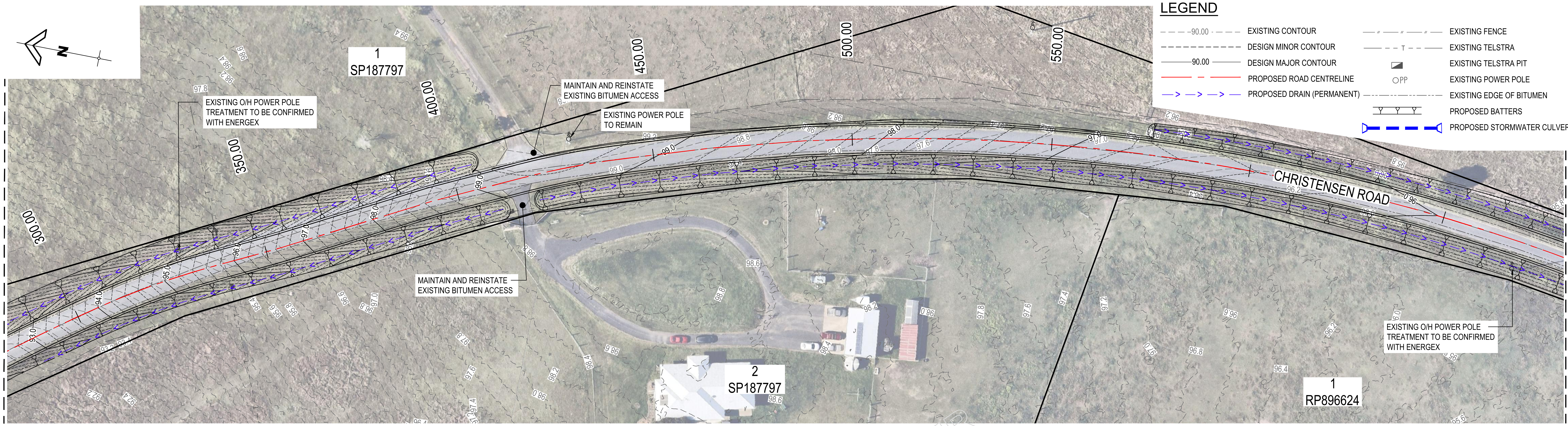
PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 1 OF 15

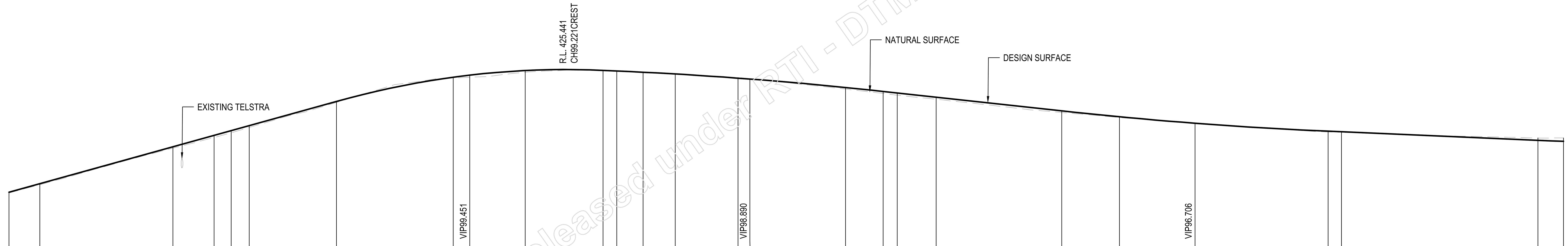
DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C301
VERSION: F

FILENAME: N:\Q1\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

Released under RTI - DTMR



CHRISTENSEN ROAD ROADWORKS PLAN (CH 300.000 - CH 650.000)



DATUM R.L. 91.00

GRADE / LENGTH: 5.55 % | VC 60.0, 9.32 K | -0.89 % | VC 60.0, 46.54 K | -2.18 % | VC 60.0, 45.83 K | -0.87 % | VC 60.0, 40.82 K

HORIZIONTAL ALIGNMENT / ARC LENGTHS: 14.57m / 340.00m | 29.99m / 200.00m | 7.92m / -500.00m | 26.54m / 200.00m | 24.21m / 2186.00m | 197.20m / 480.00m

CHAINAGE	NATURAL SURFACE	DESIGN CENTRELINE	CUT/FILL
300.000	93.661	93.694	0.033
306.918	94.037	94.078	0.042
336.912	95.682	95.743	0.061
346.160	96.161	96.256	0.095
350.000	96.375	96.469	0.094
354.082	96.613	96.696	0.082
373.733	97.740	97.786	0.046
400.000	98.840	98.874	0.033
403.733	98.873	98.968	0.095
416.206	99.097	99.175	0.078
433.733	99.169	99.184	0.015
436.814	99.152	99.157	0.005
442.745	99.110	99.100	-0.010
450.000	99.027	99.021	-0.006
464.132	98.860	98.833	-0.027
466.814	98.808	98.793	-0.015
488.339	98.342	98.413	0.071
496.814	98.144	98.236	0.092
500.000	98.069	98.166	0.097
508.746	97.883	97.976	0.093
537.012	97.290	97.360	0.070
550.000	97.057	97.095	0.038
567.012	96.800	96.804	0.004
597.012	96.412	96.445	0.034
600.000	96.393	96.419	0.026
644.231	96.138	96.034	-0.104
650.000	96.145	95.988	-0.157

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 300.000 - CH 650.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : nigelfletcherassociates.com.au

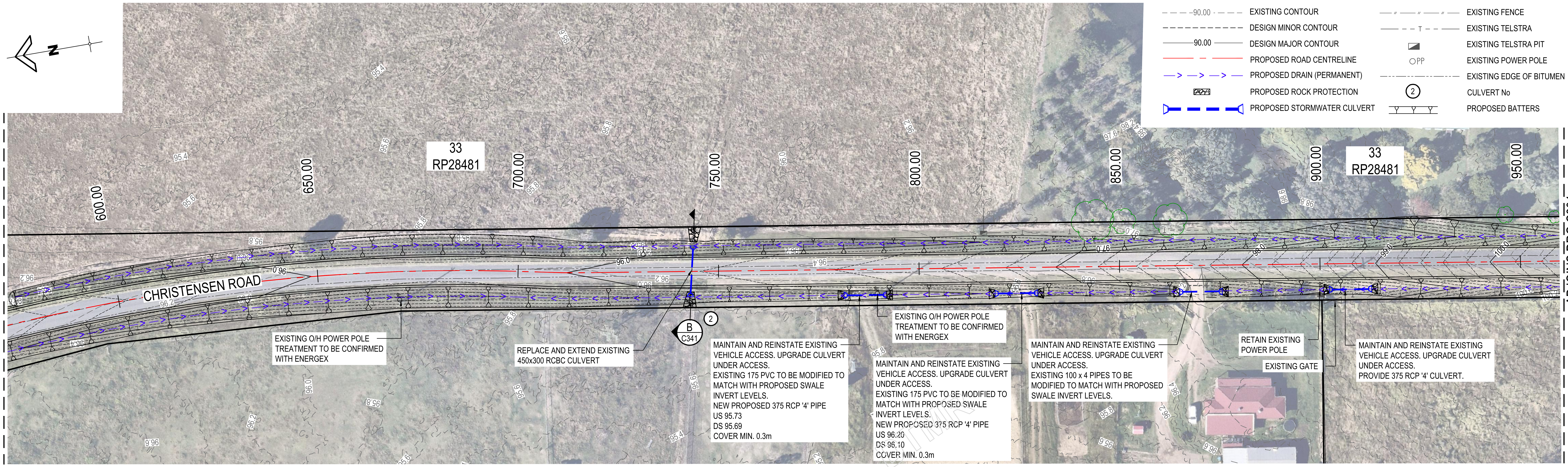
PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 2 OF 15

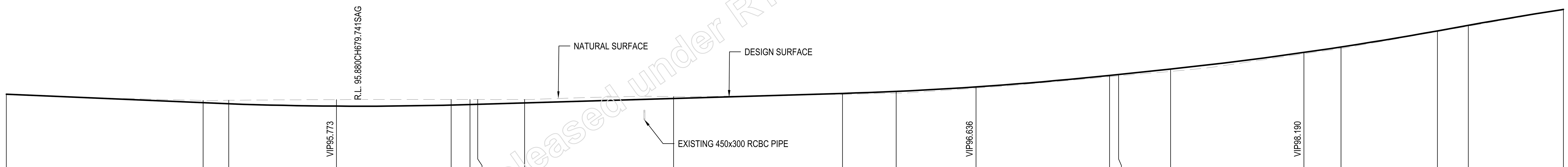
DEVEL. APPLIC. No. : | DATE : MAY 2024
PROJECT LEADER : NF | DESIGNER : TG
DRAFTSPERSON : TB | CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]
SCALE : AS SHOWN | DATUM : AHD | FULL SIZE : A1
PROJECT No.: 210173P | DRAWING No. : C302 | VERSION: F

Released under RTI - DTMR

FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 600.000 - CH 950.000)



DATUM R.L. 93.00

GRADE		-0.87 %							0.60 %					2.11 %				3.62 %		
LENGTH				VC 60.0 40.82 K								VC 60.0 39.77 K				VC 60.0 39.8 K				VC 60.0 40.45 K
HORIZIONTAL ALIGNMENT ARC LENGTHS			197.20m 480.00m					10.55m -200.00m												
CUT/FILL	0.026	-0.104	-0.157	-0.294	-0.250	-0.226	-0.215	-0.155	-0.082	0.045	0.083	0.056	0.060	0.065	0.110	0.060	0.070	0.032	0.039	0.021
DESIGN CENTRELINE	96.419	96.034	95.988	95.884	95.930	95.953	95.964	96.027	96.228	96.456	96.546	96.749	97.268	97.311	97.557	98.303	98.550	99.275	99.526	100.243
NATURAL SURFACE	96.393	96.138	96.145	96.177	96.180	96.179	96.178	96.182	96.310	96.411	96.463	96.693	97.208	97.246	97.448	98.243	98.480	99.243	99.487	100.222
CHAINAGE	600.000	644.231	650.000	674.231	700.000	704.231	705.945	716.499	750.000	787.965	800.000	817.965	847.965	850.000	861.679	891.679	900.000	921.679	928.619	950.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 600.000 - CH 950.000)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

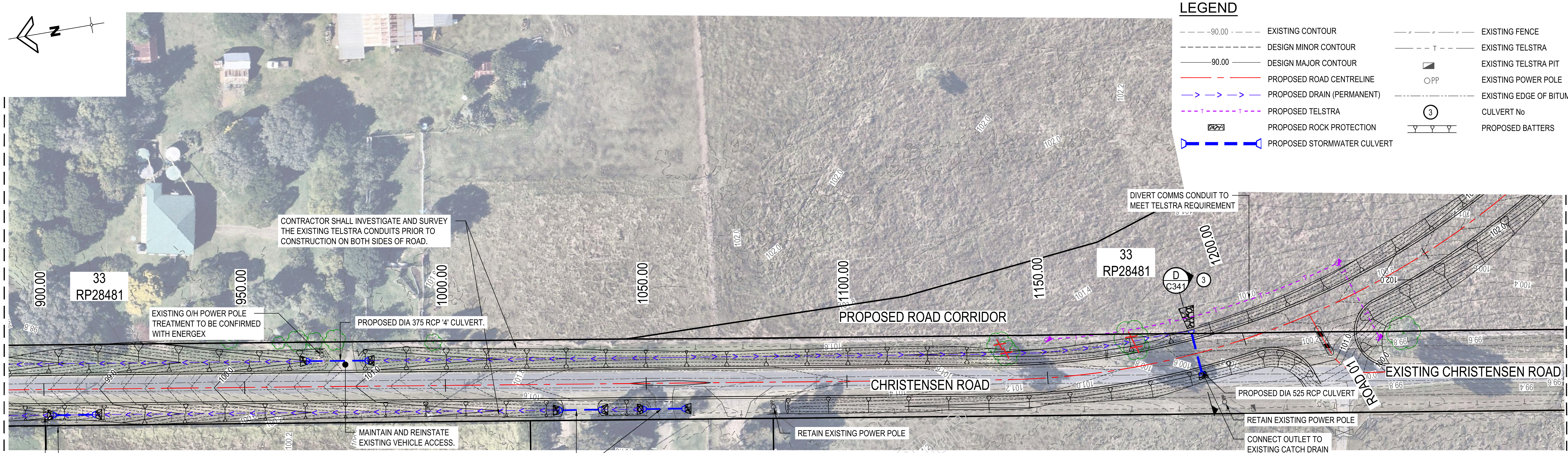
PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 3 OF 15

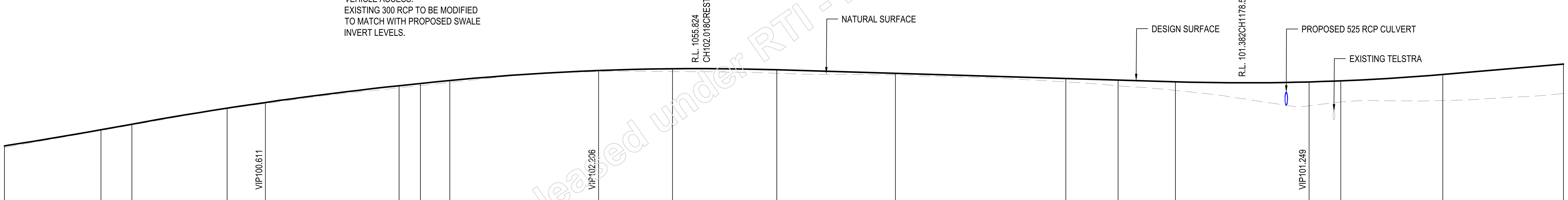
DEVEL. APPLIC. No. : | DATE : MAY 2024
PROJECT LEADER : NF | DESIGNER : TG
DRAFTSPERSON : TB | CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]
SCALE : AS SHOWN | DATUM : AHD | FULL SIZE : A1
PROJECT No.: 210173P | DRAWING No. : C303 | VERSION: F

Released under RTI - DTMR

FILENAME: N:\QT\gt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 900.000 - CH 1250.000)



DATUM R.L. 96.00

GRADE			3.62 %				2.13 %						-0.60 %					1.70 %	
LENGTH	VC 60.0 39.8 K				VC 60.0 40.45 K				VC 80.0 29.27 K							VC 60.0 26.09 K			
HORIZIONTAL ALIGNMENT ARC LENGTHS																317.44m -200.00m			
CUT/FILL	0.070	0.032	0.039	0.021	0.047	0.093	0.094	0.089	0.043	0.125	0.153	0.074	0.155	0.260	0.389	1.074	0.946	1.174	1.317
DESIGN CENTRELINE	98.550	99.275	99.526	100.243	100.500	101.251	101.353	101.486	101.932	102.013	101.966	101.806	101.576	101.506	101.429	101.421	101.470	101.759	102.220
NATURAL SURFACE	98.480	99.243	99.487	100.222	100.453	101.158	101.258	101.397	101.889	101.888	101.813	101.732	101.421	101.246	101.039	100.347	100.524	100.585	100.903
CHAINAGE	900.000	921.679	928.619	950.000	958.619	988.619	993.388	1000.000	1033.388	1050.000	1073.388	1100.000	1138.295	1150.000	1162.882	1192.882	1200.000	1222.882	1250.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 900.000 - CH 1250.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 4 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPRO N/R HALF OF NIGEL FLETCHER AND ASSOCIATES. RPEQ No. : 1[redacted]	
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C304 / VERSION: F

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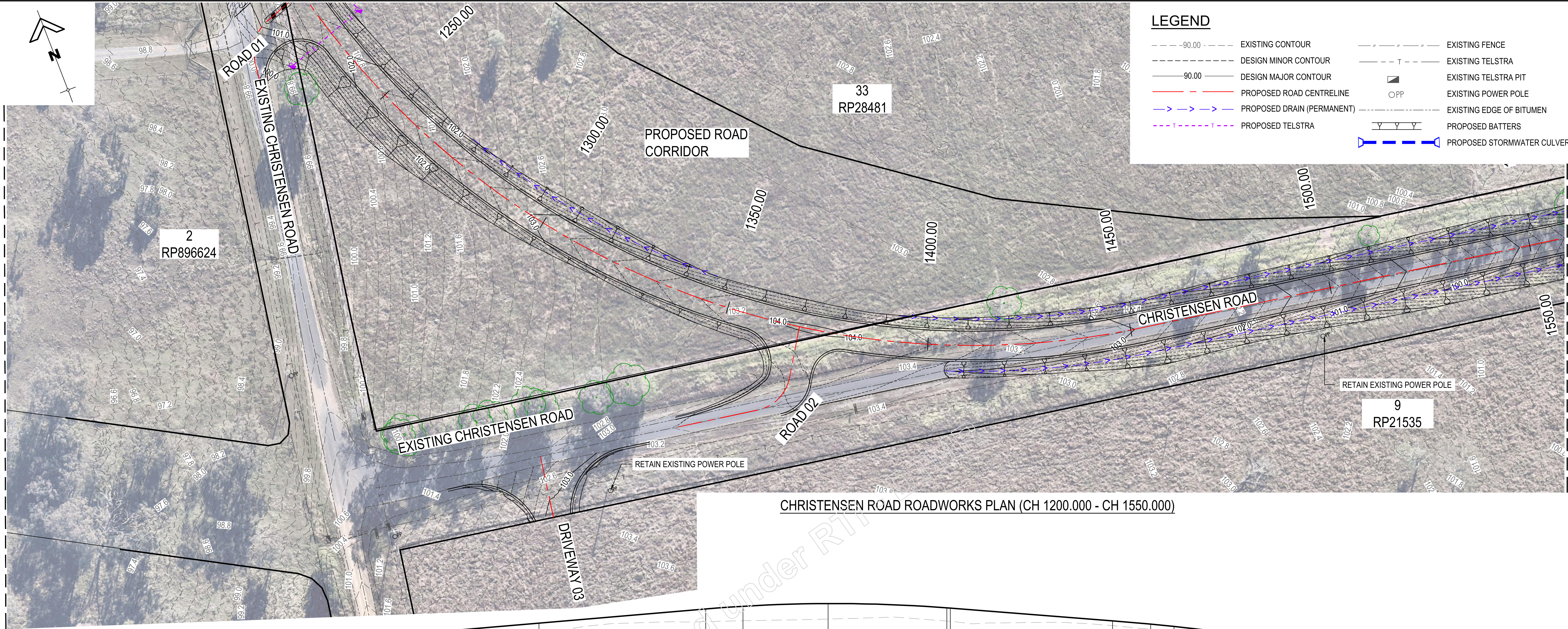
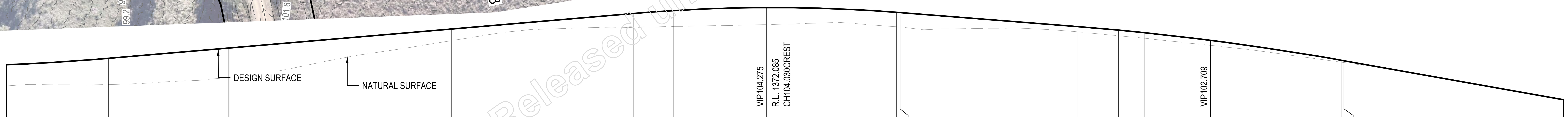
FILENAME: N:\Q1\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1200.000 - CH 1550.000)



DATUM R.L. 99.00

GRADE				1.70 %						-1.57 %						-3.53 %
LENGTH		VC 60.0 26.09 K					VC 60.0 18.35 K						VC 60.0 30.6 K			
HORIZIONTAL ALIGNMENT ARC LENGTHS				317.44m -200.00m												
CUT/FILL	0.946	1.174	1.317	0.522	0.618	0.712	0.760	0.646	0.646	0.235	0.249	0.248	0.226	0.085	0.080	-0.017
DESIGN CENTRELINE	101.470	101.759	102.220	103.070	103.765	103.897	104.030	103.818	103.804	103.180	103.019	102.906	102.562	101.674	101.651	99.909
NATURAL SURFACE	100.524	100.585	100.903	102.548	103.146	103.185	103.270	103.172	103.158	102.945	102.770	102.658	102.337	101.589	101.571	99.926
CHAINAGE	1200.000	1222.882	1250.000	1300.000	1340.881	1350.000	1370.881	1400.000	1400.881	1440.654	1450.000	1455.737	1470.654	1500.000	1500.654	1550.000

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LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 1250.000 - CH 1550.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M N/R
E N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS PLAN &
LONGITUDINAL SECTIONS
SHEET 5 OF 15

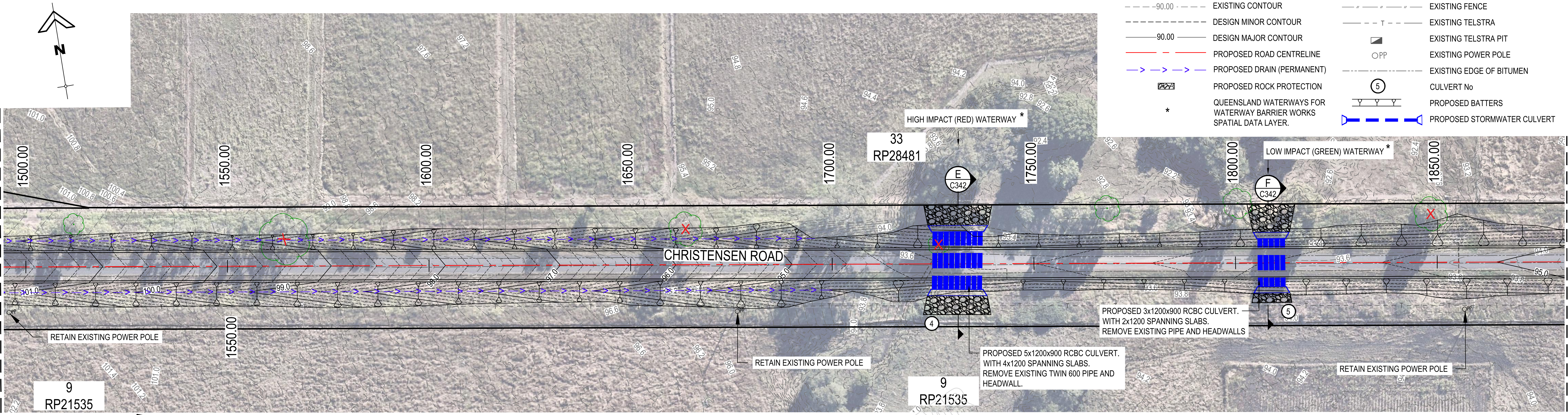
DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : 1[redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C305
VERSION: F

FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

Released under RTI

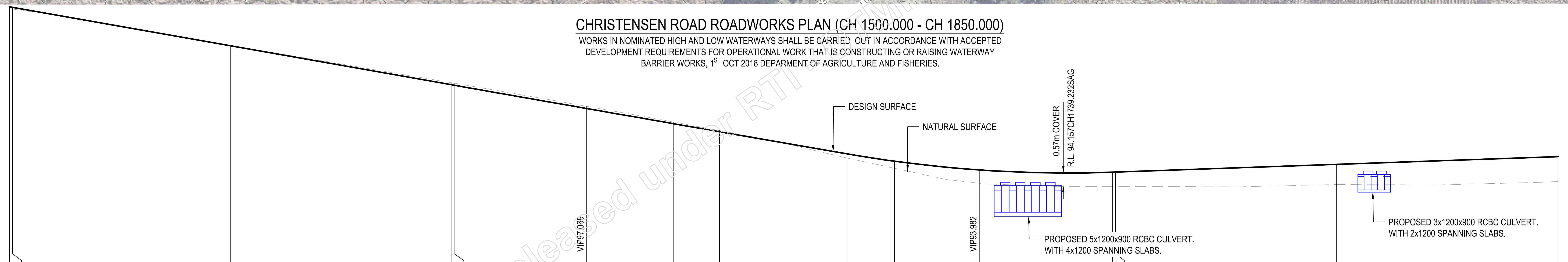
LEGEND

Symbol	Description	Symbol	Description
90.00 (dashed)	EXISTING CONTOUR		EXISTING FENCE
	DESIGN MINOR CONTOUR	T	EXISTING TELSTRA
90.00	DESIGN MAJOR CONTOUR		EXISTING TELSTRA PIT
	PROPOSED ROAD CENTRELINE	PP	EXISTING POWER POLE
	PROPOSED DRAIN (PERMANENT)		EXISTING EDGE OF BITUMEN
	PROPOSED ROCK PROTECTION	5	CULVERT No
*	QUEENSLAND WATERWAYS FOR WATERWAY BARRIER WORKS SPATIAL DATA LAYER.		PROPOSED BATTERS
			PROPOSED STORMWATER CULVERT



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1500.000 - CH 1850.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRICULTURE AND FISHERIES.



DATUM R.L. 90.00

GRADE / LENGTH: VC 60.0 30.6 K; -3.53 %; VC 60.0 1108.54 K; -3.48 %; VC 60.0 14.37 K; 0.70 %

HORIZIONTAL ALIGNMENT ARC LENGTHS

CHAINAGE	CUT/FILL	DESIGN CENTRELINE	NATURAL SURFACE
1500.000	0.085	101.674	101.589
1500.654	0.080	101.651	101.571
1550.000	-0.017	99.909	99.926
1600.000	-0.094	98.144	98.238
1600.472	-0.095	98.127	98.223
1630.472	-0.098	97.073	97.171
1650.000	-0.077	96.390	96.468
1660.472	-0.049	96.026	96.075
1689.290	0.188	95.024	94.836
1700.000	0.318	94.692	94.374
1719.290	0.606	94.295	93.689
1749.290	0.641	94.192	93.551
1750.000	0.646	94.197	93.550
1800.000	0.912	94.547	93.635
1850.000	1.124	94.897	93.773

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 1500.000 - CH 1850.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

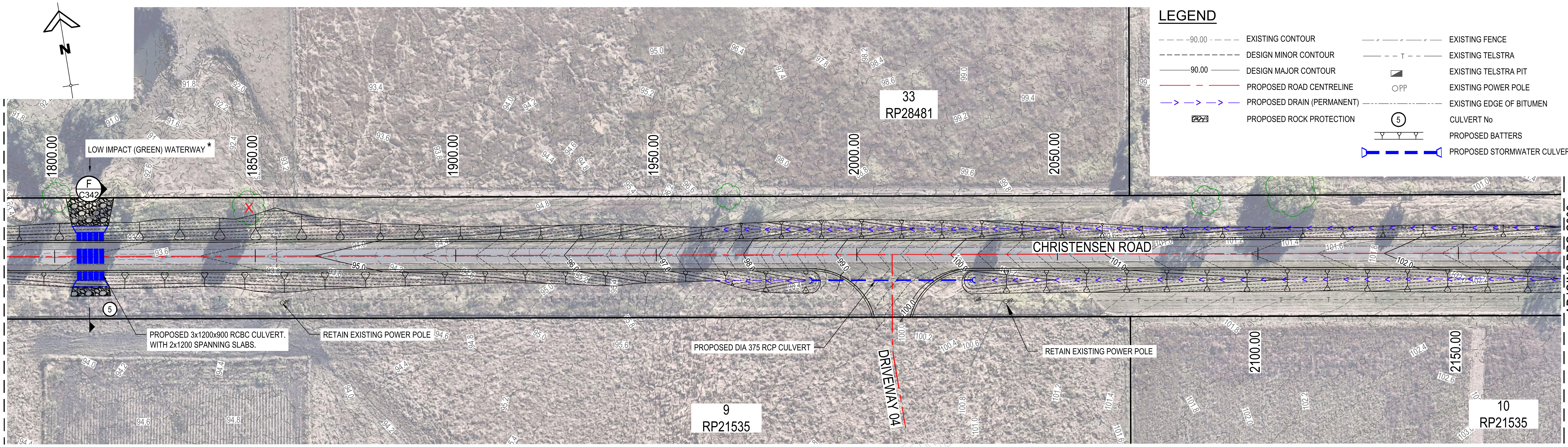
PROJECT: MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE : CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 6 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C306 / VERSION: F

PLOTTED: 20 Mar 2025 FILENAME: N:\QT\gt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg

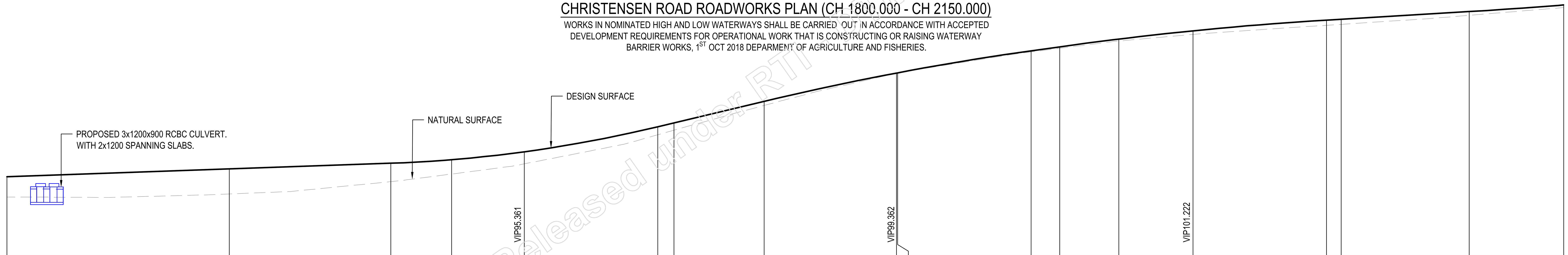
Released under RTI - DTMR



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1800.000 - CH 2150.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRICULTURE AND FISHERIES.

Released under RTI - DTMR



DATUM R.L. 91.00

GRADE		0.70 %						4.77 %				2.80 %					1.20 %	
LENGTH					VC 60.0 14.75 K					VC 60.0 30.5 K				VC 60.0 37.5 K				VC 80.0 55.17 K
HORIZIONTAL ALIGNMENT ARC LENGTHS																		
CUT/FILL	0.912	1.124	0.826	0.643	0.542	0.362	0.331	0.182	0.011	0.009	0.050	0.067	0.086	0.158	0.233	0.229	0.168	0.116
DESIGN CENTRELINE	94.547	94.897	95.151	95.310	95.666	96.791	96.966	97.932	99.205	99.214	100.202	100.382	100.731	101.102	101.582	101.622	101.967	102.263
NATURAL SURFACE	93.635	93.773	94.325	94.667	95.124	96.429	96.635	97.750	99.194	99.206	100.151	100.316	100.645	100.945	101.349	101.393	101.799	102.146
CHAINAGE	1800.000	1850.000	1886.324	1900.000	1916.324	1946.324	1950.000	1970.259	2000.000	2000.259	2030.259	2036.698	2050.000	2066.698	2096.698	2100.000	2128.773	2150.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 1800.000 - CH 2150.000)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS PLAN &
LONGITUDINAL SECTIONS
SHEET 7 OF 15

DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : 1[redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C307
VERSION: F

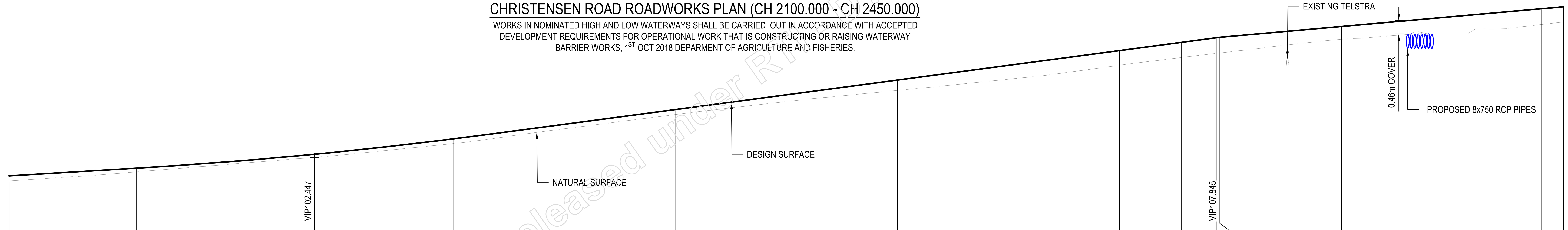
FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

LEGEND

— — —90.00 — — —	EXISTING CONTOUR	— // — // —	EXISTING FENCE
- - - - - - - -	DESIGN MINOR CONTOUR	— - - T - - —	EXISTING TELSTRA
——90.00——	DESIGN MAJOR CONTOUR		EXISTING TELSTRA PIT
	PROPOSED ROAD CENTRELINE	○PP	EXISTING POWER POLE
—> —> —>	PROPOSED DRAIN (PERMANENT)		EXISTING EDGE OF BITUMEN
	PROPOSED ROCK PROTECTION	(6)	CULVERT No
*	QUEENSLAND WATERWAYS FOR WATERWAY BARRIER WORKS SPATIAL DATA LAYER.		PROPOSED BATTERS
			PROPOSED STORMWATER CULVERT

CHRISTENSEN ROAD ROADWORKS PLAN (CH 2100.000 - CH 2450.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRICULTURE AND FISHERIES.



DATUM R.L. 99.00

GRADE		1.20 %					2.65 %						1.77 %		
LENGTH				VC 80.0 55.17 K										VC 60.0 14.6 K	
HORIZIONTAL ALIGNMENT ARC LENGTHS										7.82m 500.00m					
CUT/FILL	0.229	0.168	0.116	0.140	0.216	0.214	0.225	0.464	0.657	0.680	0.701	0.704	0.571	0.706	0.689
DESIGN CENTRELINE	101.622	101.967	102.263	102.592	103.282	103.507	104.600	105.925	107.250	107.621	107.828	107.845	108.333	109.130	109.227
NATURAL SURFACE	101.393	101.799	102.146	102.452	103.065	103.293	104.375	105.460	106.593	106.941	107.126	107.141	107.762	108.424	108.538
CHAINAGE	2100.000	2128.773	2150.000	2168.773	2200.000	2208.773	2250.000	2300.000	2350.000	2363.993	2371.815	2372.468	2400.000	2445.000	2450.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 2100.000 - CH 2450.000)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS PLAN &
LONGITUDINAL SECTIONS
SHEET 8 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN | DATUM : AHD | FULL SIZE : A1

PROJECT No.: 210173P | DRAWING No. : C308 | VERSION: F

FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

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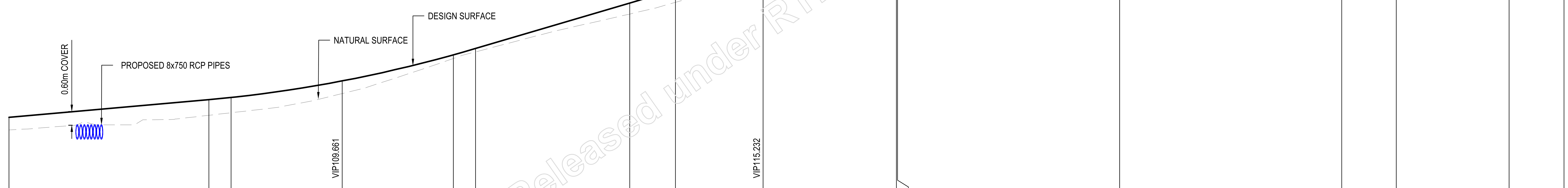
CHRISTENSEN ROAD ROADWORKS PLAN (CH 2400.000 - CH 2750.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRICULTURE AND FISHERIES.



DATUM R.L. 105.00

GRADE	1.77 %					5.88 %						4.93 %				
LENGTH				VC 60.0 14.6 K					VC 60.0 63.04 K							VC 60.0 15.67 K
HORIZONTAL ALIGNMENT ARC LENGTHS															305.03m 205.00m	
CUT/FILL	0.571	0.706	0.689	0.569	0.162	0.150	0.490	0.560	0.489	0.217	0.215	0.122	0.108	0.100	0.223	0.172
DESIGN CENTRELINE	108.333	109.130	109.227	109.970	111.140	111.425	113.468	114.063	115.161	116.711	116.724	119.188	121.652	122.257	123.508	124.068
NATURAL SURFACE	107.762	108.424	108.538	109.401	110.978	111.275	112.978	113.503	114.672	116.494	116.509	119.066	121.544	122.157	123.285	123.896
CHAINAGE	2400.000	2445.000	2450.000	2475.000	2500.000	2505.000	2539.740	2550.000	2569.740	2599.740	2600.000	2650.000	2700.000	2712.265	2737.657	2750.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 2400.000 - CH 2750.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

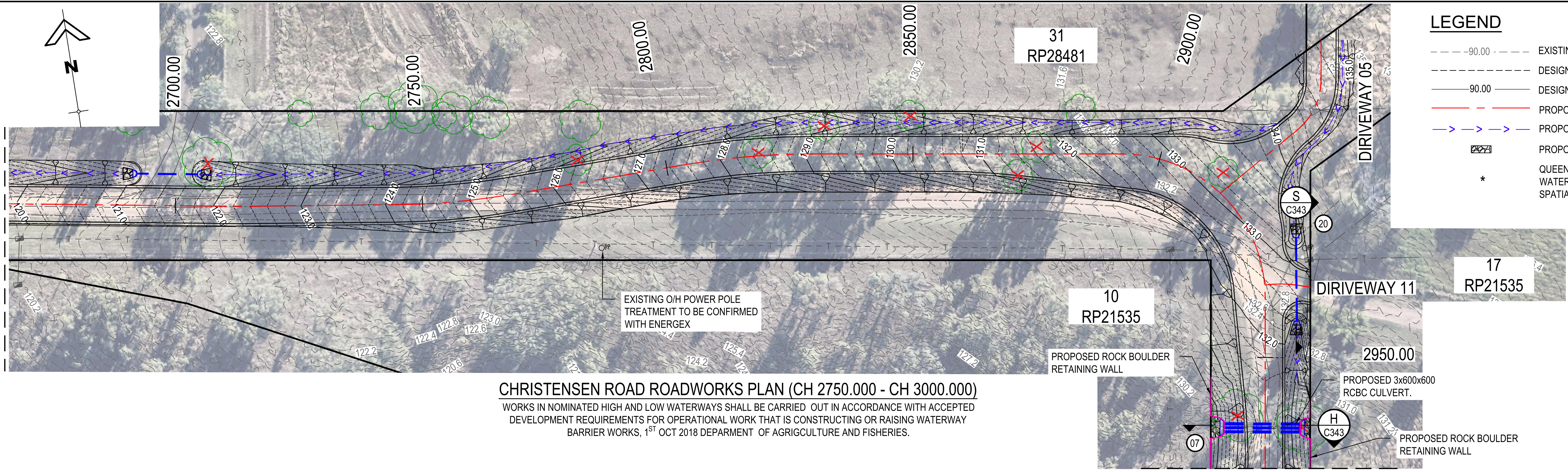
DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 9 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C309	VERSION: F

FILENAME: N:\QT\gt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025
Released under RTI - DTMR

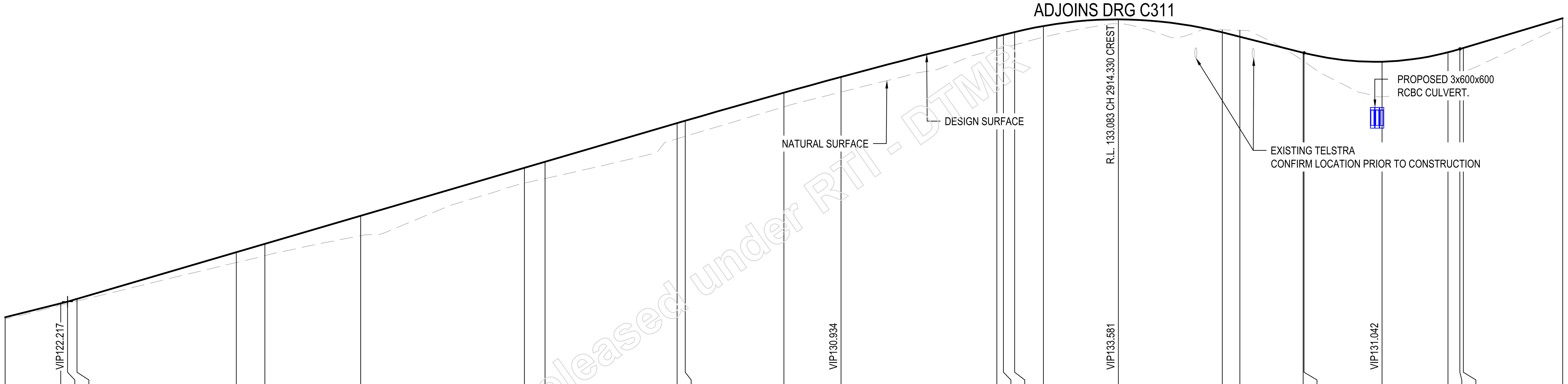


LEGEND

- - -90.00 - - -	EXISTING CONTOUR	— // — // —	EXISTING FENCE
- - - - - -	DESIGN MINOR CONTOUR	— - T - —	EXISTING TELSTRA
—90.00—	DESIGN MAJOR CONTOUR		EXISTING TELSTRA PIT
	PROPOSED ROAD CENTRELINE	OPP	EXISTING POWER POLE
	PROPOSED DRAIN (PERMANENT)		EXISTING EDGE OF BITUMEN
	PROPOSED ROCK PROTECTION	(15)	CULVERT No
*	QUEENSLAND WATERWAYS FOR WATERWAY BARRIER WORKS SPATIAL DATA LAYER.		PROPOSED RETAINING WALL
			PROPOSED BATTERS
			PROPOSED STORMWATER CULVERT

CHRISTENSEN ROAD ROADWORKS PLAN (CH 2750.000 - CH 3000.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRIGCULTURE AND FISHERIES.



DATUM R.L. 119.00

GRADE / LENGTH: 5.01 % ; 5.85 % ; 4.96 % ; -5.00 % ; VC 60.0 67.13 K ; VC 40.0 4.02 K ; VC 30.0 2.73 K

HORIZIONTAL ALIGNMENT / ARC LENGTHS: 3.14m -150.00m ; 23.95m -150.00m ; 25.43m 150.00m ; 45.55m 29.00m ; 2.97m 150.00m

CHAINAGE	CUT/FILL	DESIGN CENTRELINE	NATURAL SURFACE
2700.000	0.072	121.616	121.544
2710.694	0.075	122.152	122.077
2711.990	0.074	122.217	122.142
2713.836	0.090	122.325	122.234
2744.527	0.399	124.120	123.722
2750.000	0.451	124.440	123.989
2768.474	0.764	125.521	124.756
2800.000	0.587	127.365	126.778
2803.987	0.643	127.598	126.955
2829.417	0.600	129.086	128.486
2831.000	0.598	129.179	128.581
2850.000	0.548	130.263	129.716
2861.000	0.581	130.867	130.286
2891.000	0.492	132.421	131.929
2892.263	0.488	132.483	131.995
2894.418	0.484	132.590	132.106
2900.000	0.432	132.828	132.396
2914.418	0.167	133.083	132.916
2934.418	-0.100	132.581	132.681
2937.816	-0.253	132.411	132.664
2950.000	0.318	131.802	131.484
2950.195	0.335	131.792	131.457
2965.195	1.352	131.455	130.103
2977.893	1.006	131.814	130.808
2980.195	0.947	131.942	130.996
2980.862	0.933	131.982	131.050
3000.000	0.313	133.131	132.817

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 2700.000 - CH 2950.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : nigelfletcherassociates.com.au

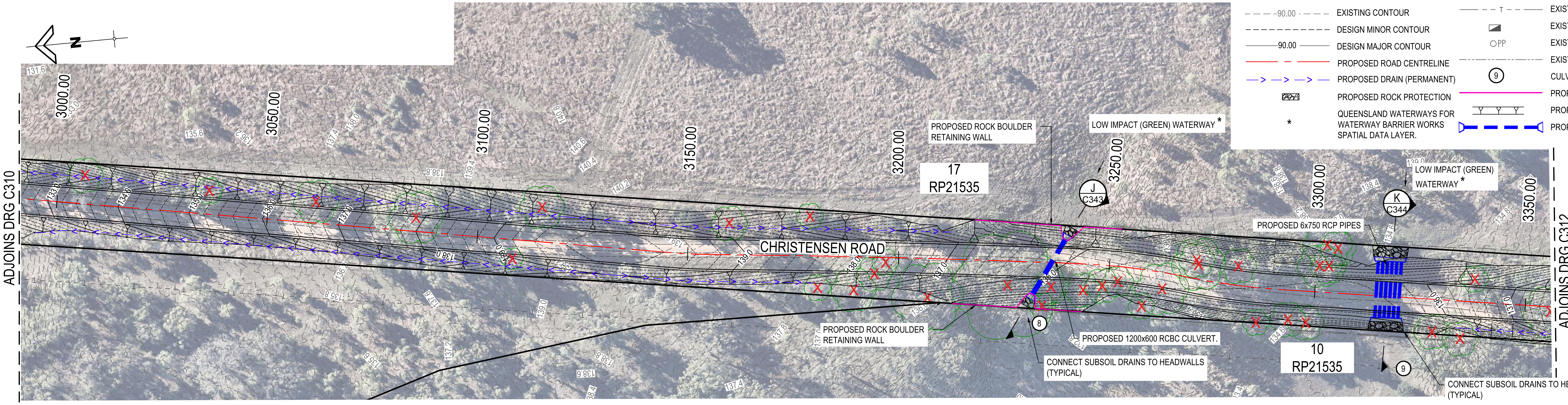
PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 10 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R RPEQ No. : [redacted]	
SCALE : AS SHOWN / DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P / DRAWING No. : C310	VERSION: F

FILENAME: N:\Q1\gt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

Released under RTI - DTMR



LEGEND

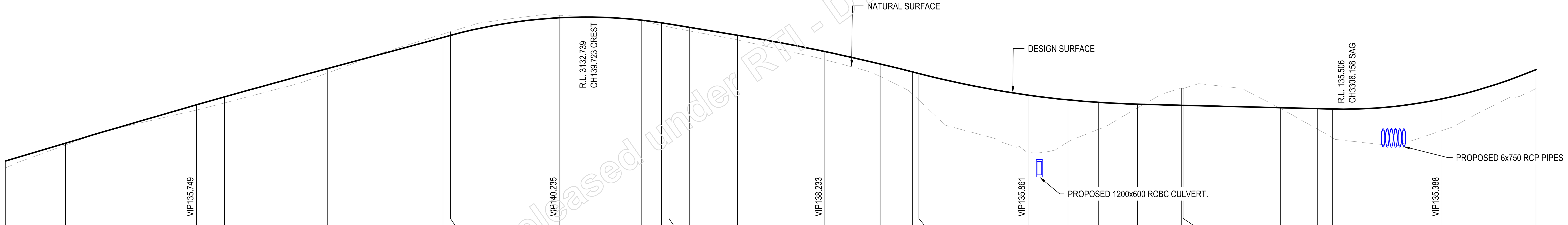
EXISTING CONTOUR	EXISTING FENCE
DESIGN MINOR CONTOUR	EXISTING TELSTRA
DESIGN MAJOR CONTOUR	EXISTING TELSTRA PIT
PROPOSED ROAD CENTRELINE	EXISTING POWER POLE
PROPOSED DRAIN (PERMANENT)	EXISTING EDGE OF BITUMEN
PROPOSED ROCK PROTECTION	CULVERT No
* QUEENSLAND WATERWAYS FOR WATERWAY BARRIER WORKS SPATIAL DATA LAYER.	PROPOSED RETAINING WALL
	PROPOSED BATTERS
	PROPOSED STORMWATER CULVERT

CHRISTENSEN ROAD ROADWORKS PLAN (CH 3000.000 - CH 3350.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRIGCULTURE AND FISHERIES.

QUEENSLAND WATERWAYS FOR WATERWAY BARRIER WORKS SPATIAL DATA LAYER.

Released under RTI - DTMR



DATUM R.L. 130.00

GRADE / LENGTH: 6.00 % | VC 60.0, 100.03 K | 5.40 % | VC 50.0, 5.75 K | -3.30 % | VC 40.0, 22.18 K | -5.10 % | VC 50.0, 10.86 K | -0.50 % | VC 50.0, 5.31 K | 8.92 %

HORIZIONTAL ALIGNMENT ARC LENGTHS: 11.11m / -150.00m | 86.53m / 2671.22m | 25.89m / 157.00m | 22.31m / -157.00m

CHAINAGE	CUT/FILL	DESIGN CENTRELINE	NATURAL SURFACE
3000.000	0.313	133.131	132.817
3013.637	0.088	133.949	133.861
3043.637	0.239	135.704	135.465
3050.000	0.272	136.065	135.792
3073.637	0.203	137.369	137.166
3100.000	-0.154	138.793	138.946
3101.704	-0.166	138.885	139.051
3126.704	-0.113	139.691	139.804
3145.326	0.028	139.585	139.557
3150.000	0.127	139.463	139.337
3151.704	0.146	139.410	139.263
3156.435	0.172	139.253	139.081
3167.353	0.213	138.893	138.680
3187.353	0.372	138.143	137.771
3200.000	0.575	137.576	137.001
3207.353	1.010	137.213	136.203
3208.829	1.214	137.137	135.923
3233.829	2.608	136.149	133.541
3242.965	1.928	135.932	134.004
3250.000	1.229	135.817	134.587
3258.829	0.172	135.736	135.564
3268.854	-0.792	135.686	136.478
3269.291	-0.766	135.684	136.450
3291.600	0.035	135.573	135.538
3300.000	0.939	135.531	134.592
3303.504	1.321	135.513	134.192
3328.504	1.450	135.977	134.527
3350.000	0.868	137.317	136.449

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 3000.000 - CH 3350.000)

ISSUE FOR APPROVAL

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VERTICAL SCALE 1:100 (meters)
HORIZONTAL SCALE 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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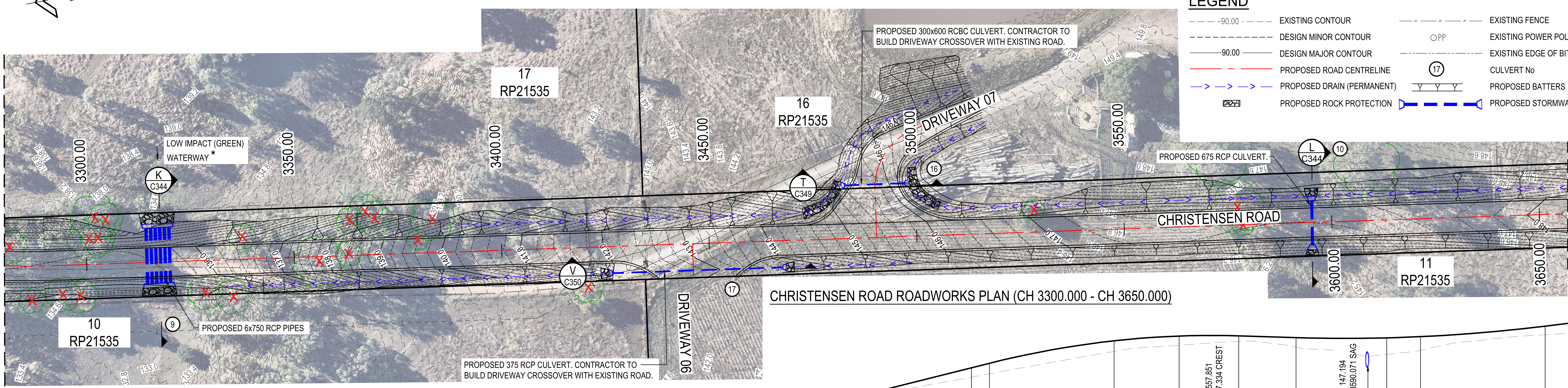
NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 11 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD
FULL SIZE : A1	
PROJECT No.: 210173P	DRAWING No. : C311
VERSION: F	

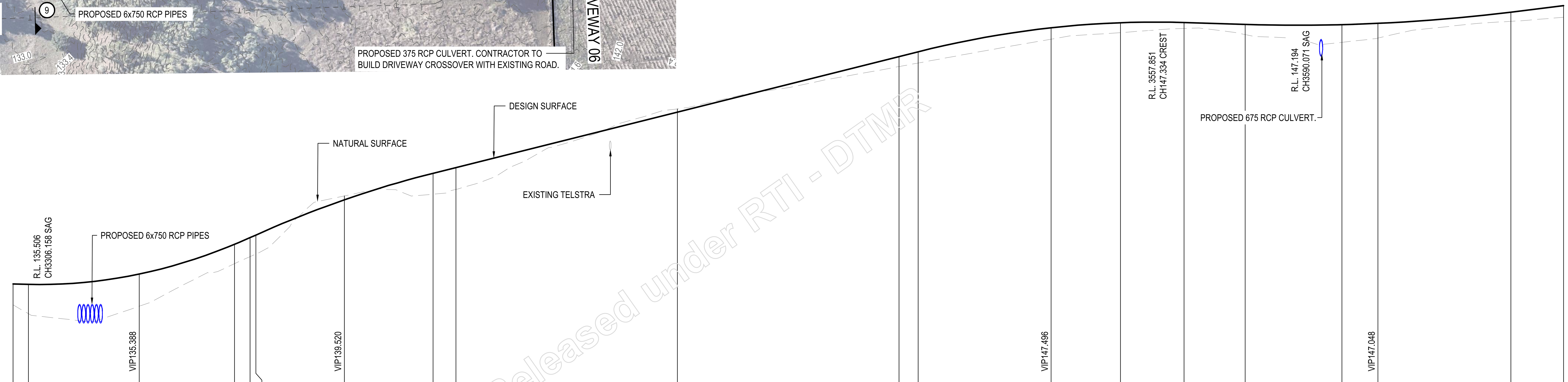
FILENAME: N:\QT\gt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025



LEGEND

- EXISTING CONTOUR (-90.00-)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- PROPOSED ROCK PROTECTION
- EXISTING FENCE
- EXISTING POWER POLE (PP)
- EXISTING EDGE OF BITUMEN
- CULVERT No (17)
- PROPOSED BATTERS
- PROPOSED STORMWATER CULVERT

CHRISTENSEN ROAD ROADWORKS PLAN (CH 3300.000 - CH 3650.000)



DATUM R.L. 131.00

GRADE / LENGTH		-0.50 %	VC 50.0 5.31 K	8.92 %			VC 40.0 10.2 K			5.00 %			VC 60.0 10.7 K		-0.61 %			VC 60.0 19.66 K	2.45 %	
HORIZIONTAL ALIGNMENT ARC LENGTHS																				
CUT/FILL	0.939	1.321	1.450	0.868	0.856	0.878	-0.175	0.942	0.983	-0.143	0.451	0.507	0.513	0.445	0.266	0.459	0.798	0.661	0.415	0.521
DESIGN CENTRELINE	135.531	135.513	135.977	137.317	137.618	137.736	139.324	140.520	140.779	143.279	145.779	145.996	147.075	147.305	147.314	147.230	147.219	147.277	147.782	148.072
NATURAL SURFACE	134.592	134.192	134.527	136.449	136.762	136.857	139.498	139.578	139.795	143.421	145.328	145.489	146.562	146.860	147.047	146.771	146.421	146.616	147.366	147.550
CHAINAGE	3300.000	3303.504	3328.504	3350.000	3353.504	3354.819	3374.819	3394.819	3400.000	3450.000	3500.000	3504.347	3534.347	3550.000	3564.347	3578.136	3600.000	3608.136	3638.136	3650.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 3300.000 - CH 3650.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

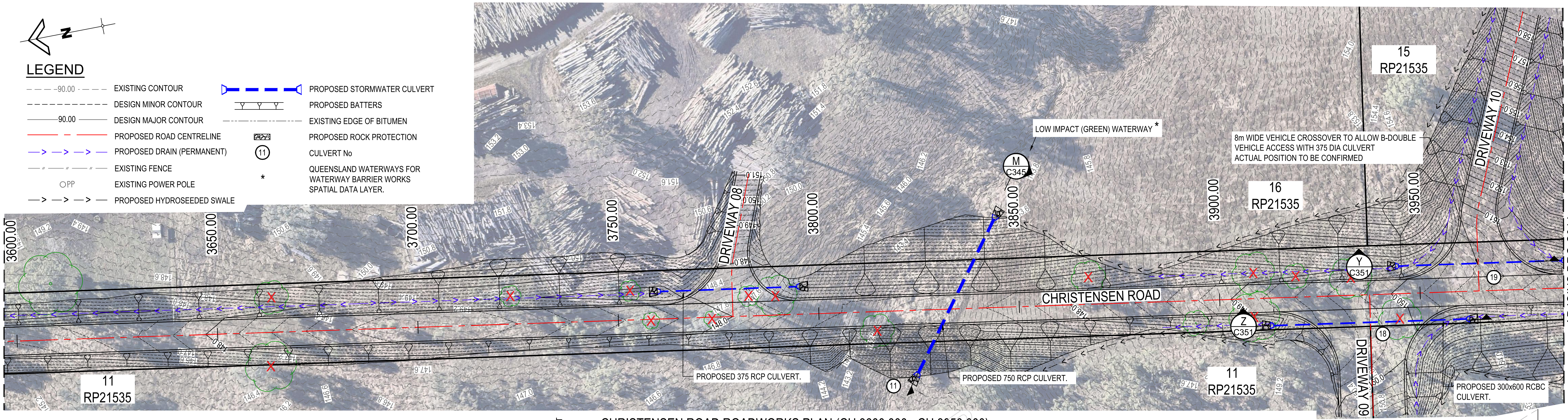
DRAWING TITLE :
CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 12 OF 15

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

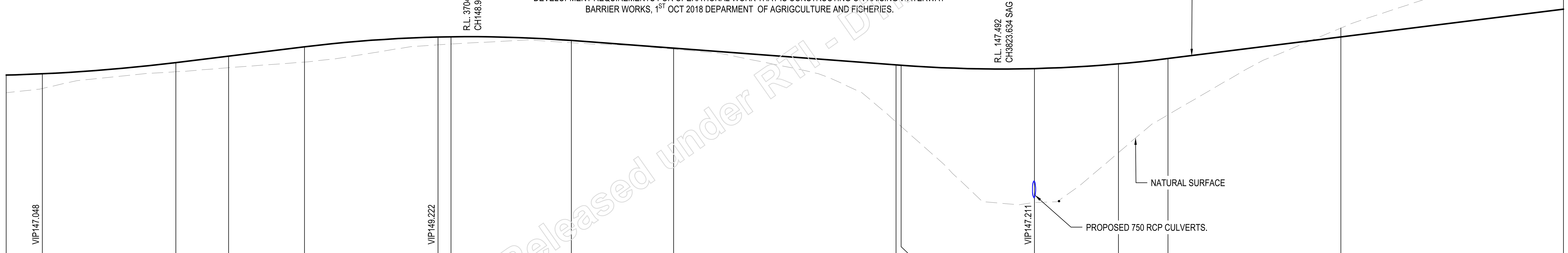
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C312	VERSION: F

Released under RTI - DTMR
FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3600.000 - CH 3950.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRIGCULTURE AND FISHERIES.



DATUM R.L. 139.00

GRADE	-0.61 %			2.45 %					-1.50 %					2.50 %		
LENGTH			VC 60.0 19.66 K				VC 60.0 15.21 K					VC 60.0 15 K				
HORIZIONTAL ALIGNMENT ARC LENGTHS																
CUT/FILL	0.798	0.661	0.415	0.521	0.684	0.347	0.319	0.098	0.048	2.567	2.751	6.026	3.990	2.529	-0.404	-2.456
DESIGN CENTRELINE	147.219	147.277	147.782	148.072	148.489	148.926	148.937	148.772	148.428	147.678	147.661	147.511	147.724	147.961	148.932	150.182
NATURAL SURFACE	146.421	146.616	147.366	147.550	147.804	148.579	148.619	148.674	148.380	145.111	144.910	141.485	143.733	145.432	149.337	152.638
CHAINAGE	3600.000	3608.136	3638.136	3650.000	3667.049	3697.049	3700.000	3727.049	3750.000	3800.000	3801.133	3831.133	3850.000	3861.133	3900.000	3950.000

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LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 3600.000 - CH 3950.000)

VERTICAL SCALE 1:100 (meters)
HORIZONTAL SCALE 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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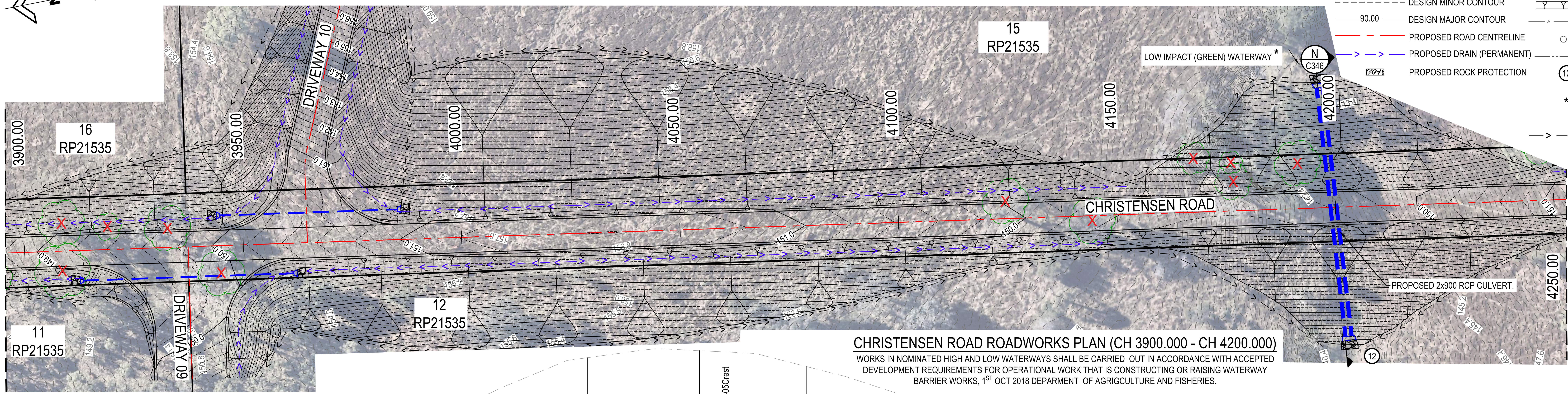
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT: MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE : CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 13 OF 15

DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : 1[redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C313
VERSION: F

Released under RTI - DTMR
FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

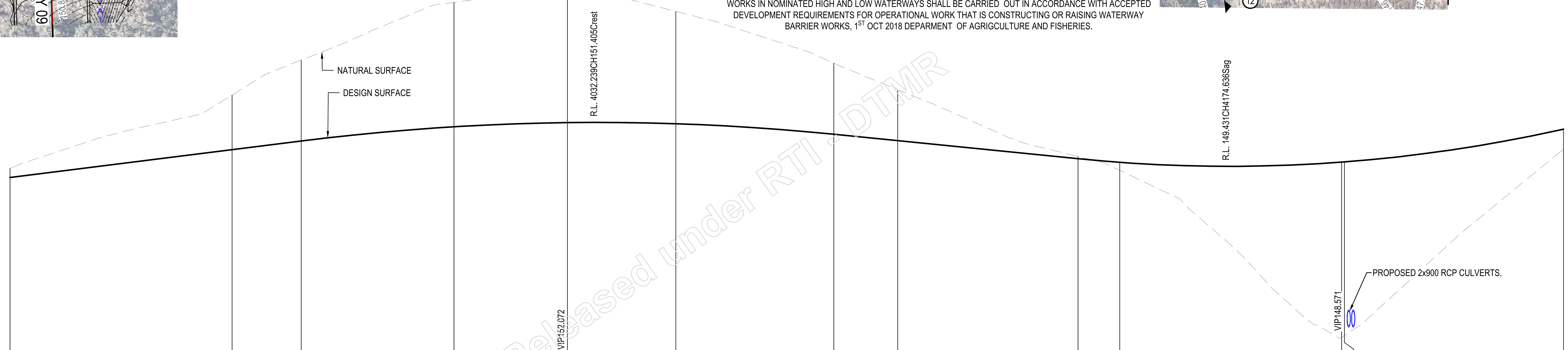


LEGEND

- EXISTING CONTOUR (-90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN (PERMANENT)
- PROPOSED ROCK PROTECTION
- PROPOSED STORMWATER CULVERT
- PROPOSED BATTERS
- EXISTING FENCE
- EXISTING POWER POLE (PP)
- EXISTING EDGE OF BITUMEN
- CULVERT No (12)
- * QUEENSLAND WATERWAYS FOR WATERWAY BARRIER WORKS SPATIAL DATA LAYER.
- PROPOSED HYDROSEEDED SWALE

CHRISTENSEN ROAD ROADWORKS PLAN (CH 3900.000 - CH 4200.000)

WORKS IN NOMINATED HIGH AND LOW WATERWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS, 1ST OCT 2018 DEPARMENT OF AGRIGCULTURE AND FISHERIES.



DATUM R.L. 141.00

GRADE: 2.50 % ; -2.00 % ; 5.06 %

LENGTH: VC 120.0 26.67 K ; VC 120.0 17 K

HORIZIONTAL ALIGNMENT ARC LENGTHS

CUT/FILL	-0.404	-2.456	-3.638	-5.601	-5.732	-5.058	-3.202	-2.295	-0.104	0.356	7.894	7.811	0.897
DESIGN CENTRELINE	148.932	150.182	150.572	151.210	151.397	151.346	150.872	150.583	149.771	149.609	149.620	149.629	151.101
NATURAL SURFACE	149.337	152.638	154.210	156.811	157.129	156.404	154.074	152.878	149.874	149.253	141.726	141.818	150.204
CHAINAGE	3900.000	3950.000	3965.572	4000.000	4025.572	4050.000	4085.572	4100.000	4140.628	4150.000	4200.000	4200.628	4250.000

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 3900.000 - CH 4250.000)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

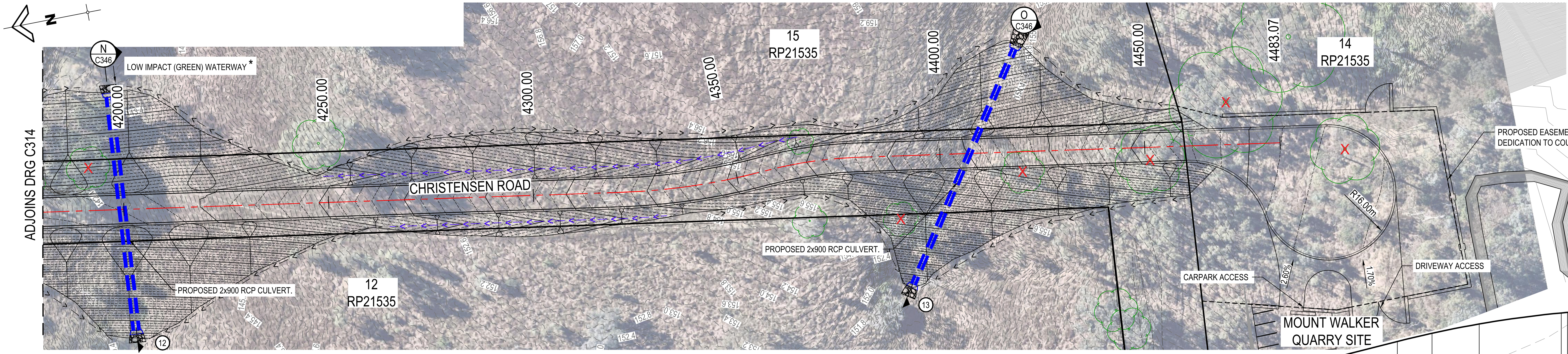
PROJECT: MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE : CHRISTENSEN ROAD ROADWORKS PLAN & LONGITUDINAL SECTIONS SHEET 14 OF 15

DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C314
VERSION: F

FILENAME: N:\Q1\gt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025

Released under RTI - DTMR

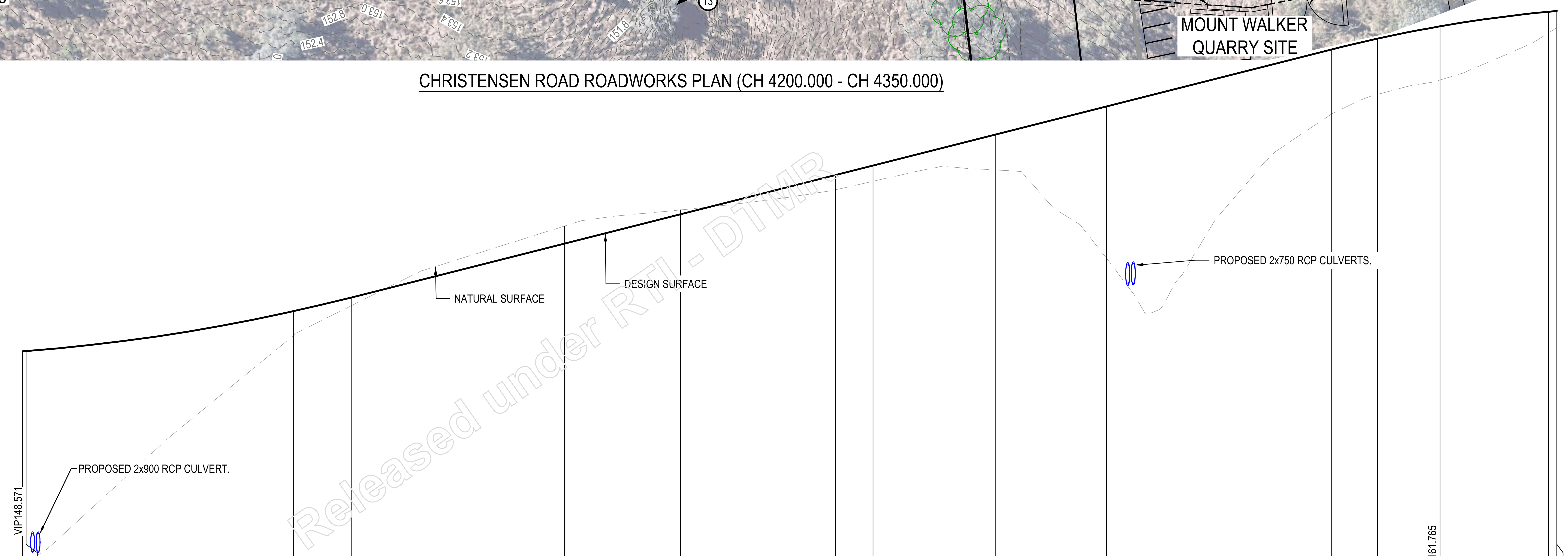


CHRISTENSEN ROAD ROADWORKS PLAN (CH 4200.000 - CH 4350.000)

LEGEND

- EXISTING CONTOUR (90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- PROPOSED ROAD CENTRELINE
- PROPOSED HYDROSEEDED SWALE
- PROPOSED DRAIN (PERMANENT)
- EXISTING FENCE
- EXISTING TREES
- PROPOSED ROCK PROTECTION
- CULVERT No (13)
- PROPOSED BATTERS
- PROPOSED STORMWATER CULVERT

NOTE:
ROAD OFFSET DUE TO DESIRED QUARRY ENTRY LEVEL.



DATUM R.L. 141.00

GRADE: -2.00 % | 5.06 % | 1.89 %

LENGTH: VC 120.0, 17 K | VC 40.0, 12.65 K

HORIZIONTAL ALIGNMENT ARC LENGTHS: 35.52m, -157.00m | 22.63m, 100.00m

CHAINAGE	CUT/FILL	DESIGN CENTRELINE	NATURAL SURFACE
4200.000	7.894	149.620	141.726
4200.628	7.811	149.629	141.818
4250.000	0.897	151.101	150.204
4260.628	0.304	151.605	151.301
4300.000	-0.646	153.596	154.242
4321.379	-0.156	154.677	154.833
4350.000	0.547	156.125	155.578
4356.904	0.585	156.474	155.889
4379.532	1.309	157.618	156.310
4400.000	5.607	158.653	153.047
4441.528	2.380	160.754	158.374
4450.000	2.061	161.154	159.093
4461.528	1.979	161.607	159.628
4481.528	0.781	162.144	161.363
4483.071	0.614	162.173	161.559

LONGITUDINAL SECTION CHRISTENSEN ROAD (CH 4200.000 - END)

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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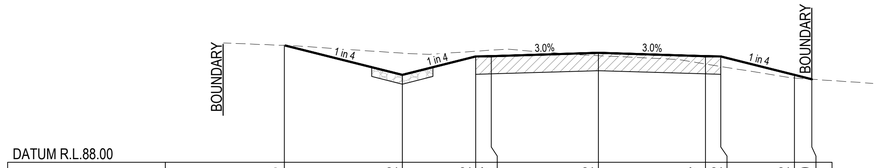
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS PLAN &
LONGITUDINAL SECTIONS
SHEET 15 OF 15

DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C315
VERSION: F

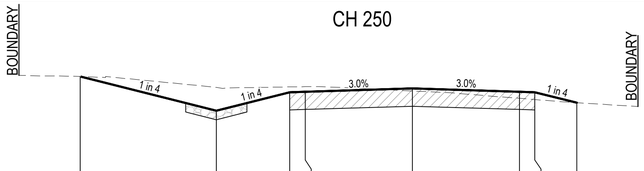
FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C300 ROADWORKS LAYOUT PLAN.dwg
PLOTTED: 20 Mar 2025



DATUM R.L.88.00

DESIGN LEVELS	91.815	90.852	91.452	91.467	91.572	91.467	91.452	90.852	90.710
NATURAL SURFACE	91.815	91.560	91.626	91.660	91.483	91.209	91.128	90.748	90.710
OFFSET	-10.251	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.970

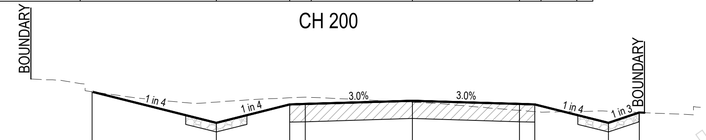
CH 250



DATUM R.L.88.00

DESIGN LEVELS	91.221	90.110	90.710	90.725	90.830	90.725	90.710	90.368
NATURAL SURFACE	91.221	90.866	90.882	90.890	90.752	90.510	90.470	90.368
OFFSET	-10.844	-6.400	-4.000	-3.500	0.000	3.500	4.000	5.367

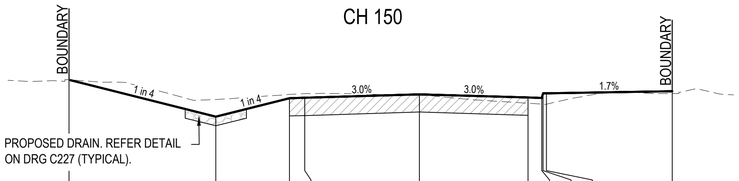
CH 200



DATUM R.L.87.00

DESIGN LEVELS	90.110	89.097	89.697	89.712	89.817	89.712	89.697	89.097	89.433
NATURAL SURFACE	90.110	89.773	89.912	89.934	89.767	89.501	89.461	89.476	89.433
OFFSET	-10.453	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.409

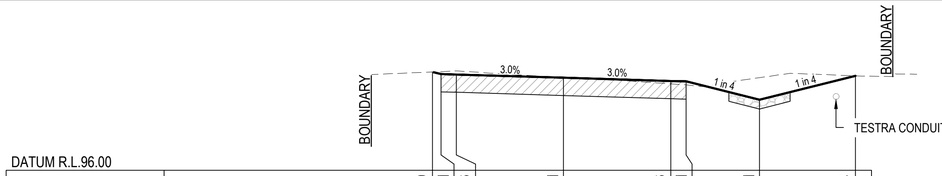
CH 150



DATUM R.L.85.00

DESIGN LEVELS	88.464	87.266	87.866	87.881	87.993	87.887	87.873	88.023	88.023	88.092
NATURAL SURFACE	88.464	87.825	87.989	88.014	87.958	87.701	87.672	87.669	87.673	88.022
OFFSET	-11.435	-6.642	-4.242	-3.742	0.000	3.550	4.000	4.040	4.150	8.258

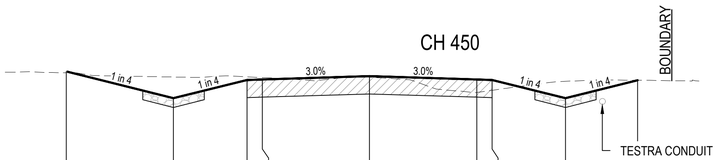
CH 100



DATUM R.L.96.00

DESIGN LEVELS	99.209	99.141	99.126	99.021	98.916	98.901	98.301	99.084
NATURAL SURFACE	99.209	99.221	99.242	99.027	98.823	98.789	99.024	99.084
OFFSET	-4.274	-4.000	-3.500	0.000	3.500	4.000	6.400	9.534

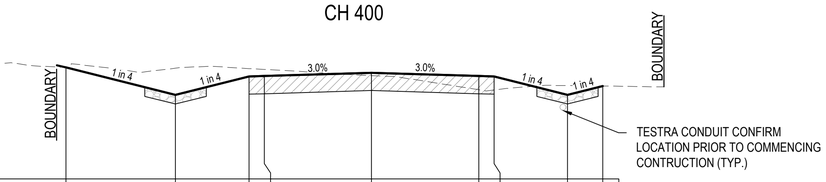
CH 450



DATUM R.L.96.00

DESIGN LEVELS	99.028	98.154	98.754	98.769	98.874	98.769	98.754	98.154	98.743
NATURAL SURFACE	99.042	98.847	98.854	98.830	98.840	98.339	98.413	98.708	98.743
OFFSET	-9.897	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.756

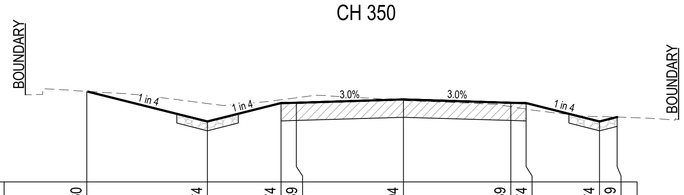
CH 400



DATUM R.L.93.00

DESIGN LEVELS	96.642	95.749	96.349	96.364	96.469	96.364	96.349	95.749	96.036
NATURAL SURFACE	96.642	96.617	96.602	96.575	96.375	95.912	95.904	96.050	96.036
OFFSET	-9.972	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.547

CH 350



DATUM R.L.91.00

DESIGN LEVELS	93.960	92.974	93.574	93.589	93.694	93.589	93.574	92.974	93.119
NATURAL SURFACE	93.960	93.563	93.684	93.748	93.661	93.459	93.380	93.136	93.119
OFFSET	-10.344	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.977

CH 300

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

Released under RTI - DTMR

FILENAME: N:\01\gl_optimum_ltd_ca\sub25 - documents\sub25184_info22023\ mt walker quarry access rd\3x_civil\01_DA\Rev A\02_acad\C320_ROADWORKS CROSS SECTIONS.dwg
PLOTTED: 28 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
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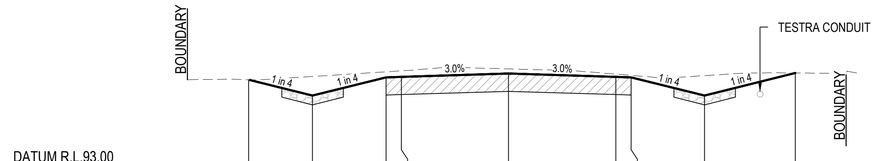
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M: N/R
E: N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 1 OF 16

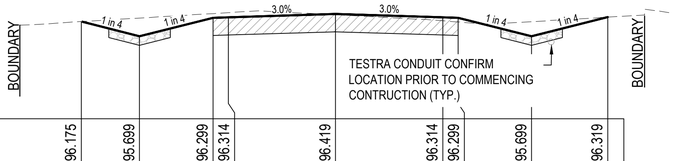
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C320 / VERSION: F



DATUM R.L.93.00

DESIGN LEVELS	95.790	95.268	95.868	95.883	95.988	95.883	95.868	95.268	96.009
NATURAL SURFACE	95.790	95.895	96.047	96.078	96.145	95.973	95.933	95.922	96.009
OFFSET	-8.487	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.362

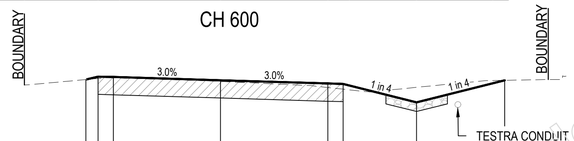
CH 650



DATUM R.L.93.00

DESIGN LEVELS	96.175	95.699	96.299	96.314	96.419	96.314	96.299	95.699	96.319
NATURAL SURFACE	96.175	96.290	96.435	96.465	96.393	96.200	96.161	96.171	96.319
OFFSET	-8.304	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.881

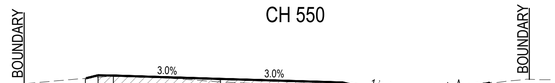
CH 600



DATUM R.L.94.00

DESIGN LEVELS	97.115	97.215	97.200	97.095	96.990	96.975	96.375	97.095
NATURAL SURFACE	97.115	97.151	97.195	97.057	96.860	96.806	96.864	97.095
OFFSET	-4.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.278

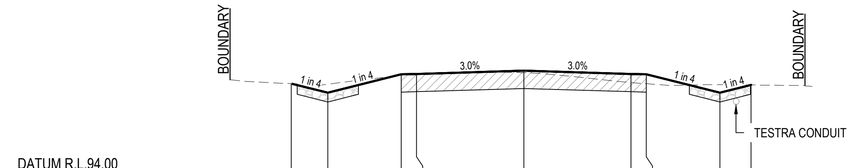
CH 550



DATUM R.L.95.00

DESIGN LEVELS	98.183	98.286	98.271	98.166	98.061	98.046	97.446	98.038
NATURAL SURFACE	98.183	98.218	98.260	98.069	97.814	97.747	97.873	98.038
OFFSET	-4.413	-4.000	-3.500	0.000	3.500	4.000	6.400	8.765

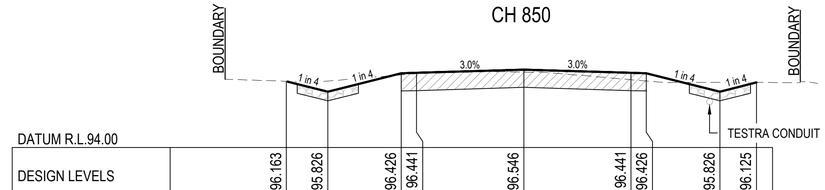
CH 500



DATUM R.L.94.00

DESIGN LEVELS	96.889	96.591	97.191	97.206	97.311	97.206	97.191	96.591	96.846
NATURAL SURFACE	96.889	96.871	97.160	97.218	97.246	96.927	96.888	96.857	96.846
OFFSET	-7.592	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.419

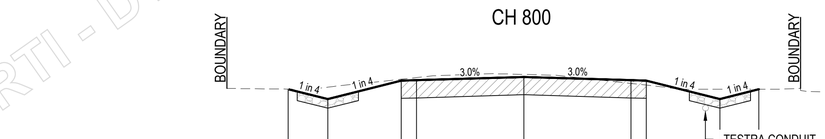
CH 850



DATUM R.L.94.00

DESIGN LEVELS	96.163	95.826	96.426	96.441	96.546	96.441	96.426	95.826	96.125
NATURAL SURFACE	96.163	96.172	96.375	96.416	96.463	96.217	96.174	96.126	96.125
OFFSET	-7.749	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.596

CH 800



DATUM R.L.93.00

DESIGN LEVELS	95.831	95.508	96.108	96.123	96.228	96.123	96.108	95.508	95.825
NATURAL SURFACE	95.831	95.895	96.156	96.210	96.310	96.016	95.962	95.825	95.825
OFFSET	-7.693	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.670

CH 750

DATUM R.L.93.00

DESIGN LEVELS	95.821	95.210	95.810	95.825	95.930	95.825	95.810	95.210	95.864
NATURAL SURFACE	95.821	95.769	95.997	96.038	96.180	95.969	95.929	95.827	95.864
OFFSET	-8.846	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.017

CH 700

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) 1 0 1 2 3 4 5 (metres)

Released under RTI - DTMR

PLOTTED: 28 Mar 2025
FILENAME: N:\Qld\gce_walkman_ltd_as\sub025 - documents\sub025dtl\ dtl228231 mt walker quarry access rd\03. cad\31. DA\Rev A\R2. acad\C320 ROADWORKS CROSS SECTIONS.dwg

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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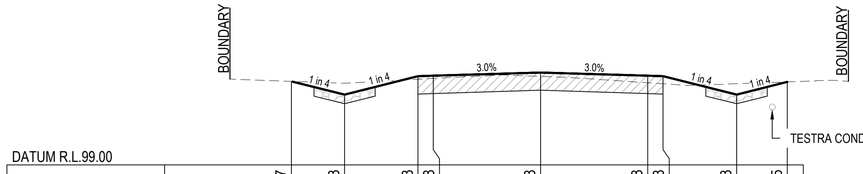
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 2 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

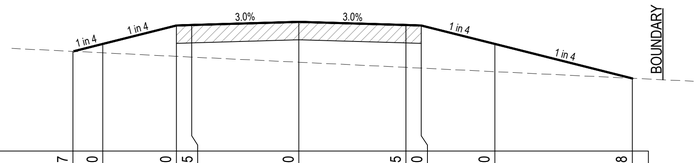
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C321	VERSION: F



DATUM R.L.99.00

DESIGN LEVELS	101.727	101.293	101.893	101.908	102.013	101.908	101.893	101.293	101.705
NATURAL SURFACE	101.727	101.665	101.795	101.822	101.888	101.679	101.645	101.647	101.705
OFFSET	-8.136	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.051

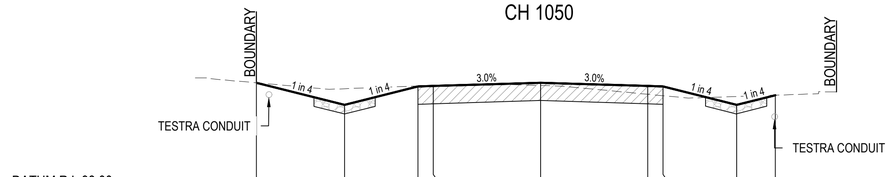
CH 1050



DATUM R.L.98.00

DESIGN LEVELS	101.257	101.500	102.100	102.115	102.220	102.115	102.100	101.500	100.378
NATURAL SURFACE	101.257	101.210	101.095	101.071	100.903	100.734	100.710	100.594	100.378
OFFSET	-7.371	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	10.887

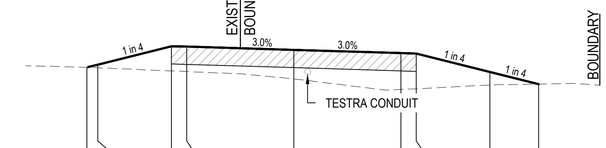
CH 1250



DATUM R.L.98.00

DESIGN LEVELS	101.485	100.766	101.366	101.381	101.486	101.381	101.366	100.766	101.081
NATURAL SURFACE	101.485	101.292	101.384	101.406	101.397	101.112	101.064	101.039	101.081
OFFSET	-9.274	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.662

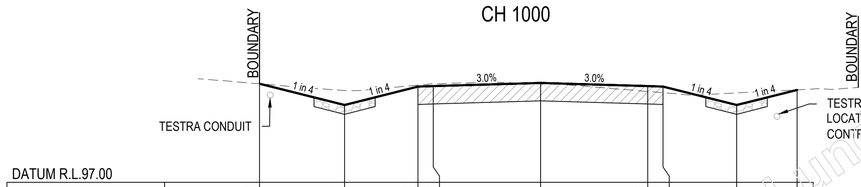
CH 1000



DATUM R.L.98.00

DESIGN LEVELS	100.901	100.990	101.590	101.575	101.470	101.365	101.350	100.750	100.352
NATURAL SURFACE	100.901	100.886	100.784	100.762	100.524	100.178	100.202	100.323	100.352
OFFSET	-6.755	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.991

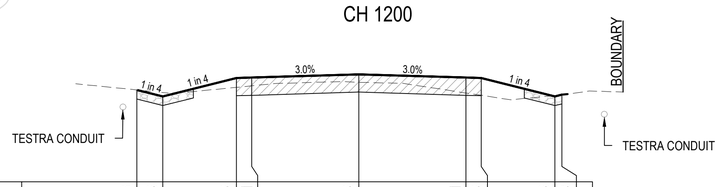
CH 1200



DATUM R.L.97.00

DESIGN LEVELS	100.217	99.523	100.123	100.138	100.243	100.138	100.123	99.523	100.016
NATURAL SURFACE	100.217	99.997	100.172	100.215	100.222	99.966	99.925	99.917	100.016
OFFSET	-9.177	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.373

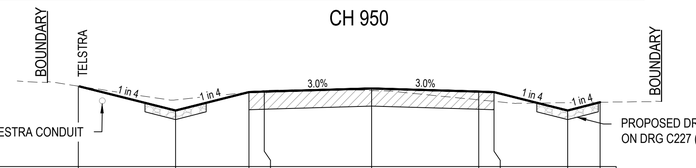
CH 950



DATUM R.L.98.00

DESIGN LEVELS	100.998	100.786	101.386	101.401	101.506	101.401	101.386	100.786	100.843
NATURAL SURFACE	100.998	100.913	101.081	101.130	101.246	100.899	100.823	100.819	100.843
OFFSET	-7.248	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.627

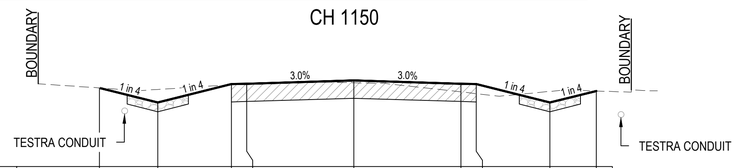
CH 1150



DATUM R.L.96.00

DESIGN LEVELS	98.623	97.830	98.430	98.445	98.550	98.445	98.430	97.830	98.096
NATURAL SURFACE	98.623	98.173	98.425	98.477	98.480	98.174	98.125	98.083	98.096
OFFSET	-9.570	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.466

CH 900



DATUM R.L.99.00

DESIGN LEVELS	101.563	101.086	101.686	101.701	101.806	101.701	101.686	101.086	101.465
NATURAL SURFACE	101.563	101.514	101.666	101.698	101.732	101.434	101.378	101.450	101.465
OFFSET	-8.307	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.917

CH 1100

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) (metres)

Released under RTI - DTMR

FILENAME: N:\QJ\qc wutnom ltd qa\qa025 - documents\qa025016 (rd222923) mt walker quarry access rd\03_civil\01_DA\Rev A\02_acad\C328 ROADWORKS CROSS SECTION.dwg
PLOTTED: 23 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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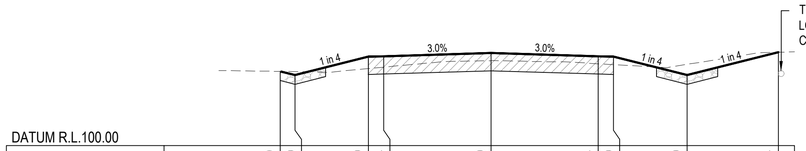
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 3 OF 16

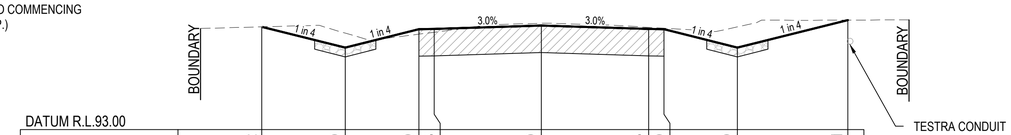
DEVEL. APPLIC. No. :		DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG	
DRAFTSPERSON : TB	CHECKED : NF	
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R RPEQ No. :		
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C322	VERSION: F



DATUM R.L.100.00

DESIGN LEVELS	102.420	102.299	102.899	102.914	103.019	102.914	102.899	102.299	103.044
NATURAL SURFACE	102.420	102.414	102.512	102.558	102.770	102.669	102.640	102.648	103.044
OFFSET	-6.885	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.379

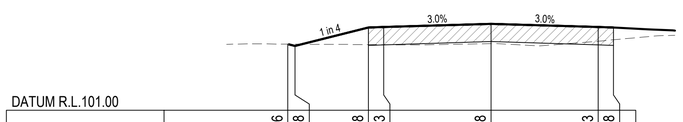
CH 1450



DATUM R.L.93.00

DESIGN LEVELS	96.352	95.670	96.270	96.285	96.390	96.285	96.270	95.670	96.571
NATURAL SURFACE	96.352	96.145	96.111	96.176	96.468	96.335	96.305	96.350	96.571
OFFSET	-9.125	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	10.002

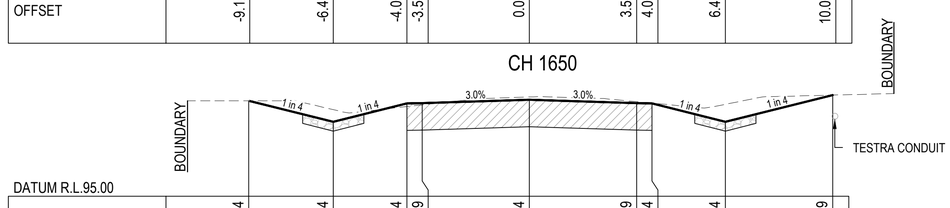
CH 1650



DATUM R.L.101.00

DESIGN LEVELS	103.156	103.098	103.698	103.713	103.818	103.713	103.698
NATURAL SURFACE	103.156	103.155	103.140	103.137	103.172	103.253	103.297
OFFSET	-6.635	-6.400	-4.000	-3.500	0.000	3.500	4.000

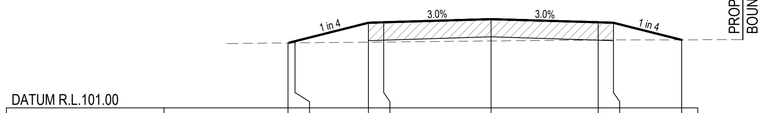
CH 1400



DATUM R.L.95.00

DESIGN LEVELS	98.114	97.424	98.024	98.039	98.144	98.039	98.024	97.424	98.299
NATURAL SURFACE	98.114	97.824	97.924	97.979	98.238	98.083	98.036	97.998	98.299
OFFSET	-9.159	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.901

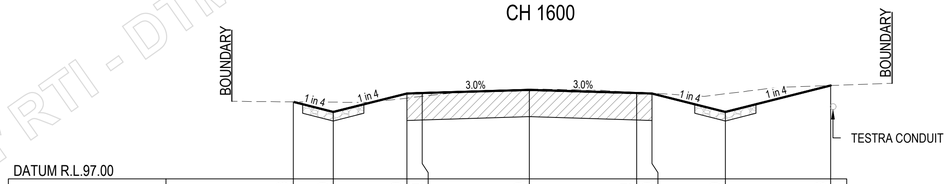
CH 1600



DATUM R.L.101.00

DESIGN LEVELS	103.120	103.177	103.777	103.792	103.897	103.792	103.777	103.222
NATURAL SURFACE	103.120	103.123	103.146	103.151	103.185	103.215	103.216	103.222
OFFSET	-6.627	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.221

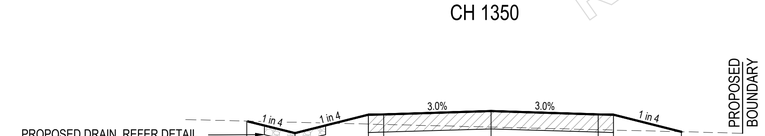
CH 1350



DATUM R.L.97.00

DESIGN LEVELS	99.516	99.189	99.789	99.804	99.909	99.804	99.789	99.189	100.049
NATURAL SURFACE	99.516	99.505	99.638	99.694	99.926	99.824	99.795	99.778	100.049
OFFSET	-7.707	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.840

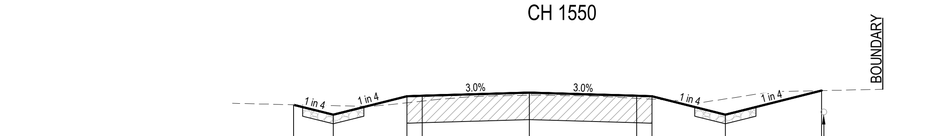
CH 1550



DATUM R.L.100.00

DESIGN LEVELS	102.743	102.350	102.950	102.965	103.070	102.965	102.950	102.396
NATURAL SURFACE	102.743	102.704	102.646	102.633	102.548	102.462	102.450	102.396
OFFSET	-7.975	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.216

CH 1300



DATUM R.L.98.00

DESIGN LEVELS	101.278	100.954	101.554	101.569	101.674	101.569	101.554	100.954	101.738
NATURAL SURFACE	101.278	101.249	101.342	101.395	101.589	101.486	101.459	101.465	101.738
OFFSET	-7.697	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.536

CH 1500

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

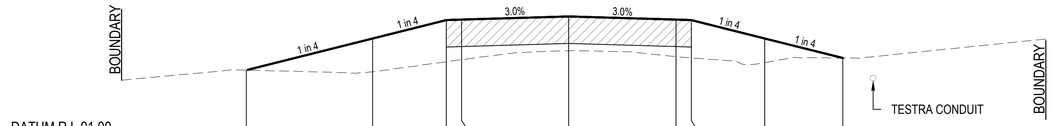
DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 4 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C323	VERSION: F

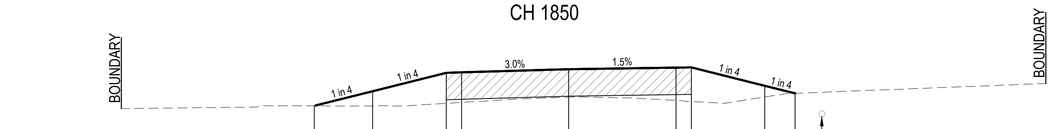
PLOTTED: 28 Mar 2025
FILENAME: N:\QT\qt_various_ltd_ca\ca0025 - documents\ca0025#4_info\23223_mt_walker_quarry_access_rd\03_civil\01_DA\Rev A\02_acad\C323_ROADWORKS CROSS SECTIONS SHEET 4 OF 16.dwg



DATUM R.L.91.00

DESIGN LEVELS	93.145	94.177	94.777	94.792	94.897	94.792	94.777	94.177	93.541
NATURAL SURFACE	93.145	93.091	93.418	93.487	93.777	93.584	93.541	93.389	93.541
OFFSET	-10.528	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.942

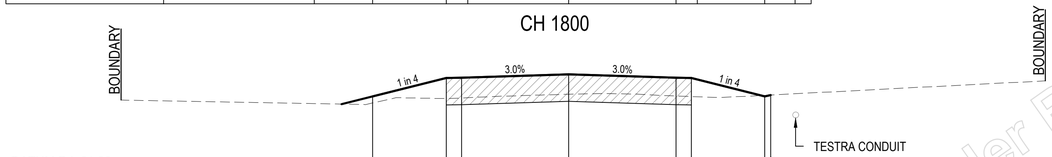
CH 1850



DATUM R.L.91.00

DESIGN LEVELS	93.350	93.827	94.427	94.442	94.547	94.599	94.607	94.007	93.760
NATURAL SURFACE	93.350	93.342	93.432	93.463	93.635	93.525	93.496	93.638	93.760
OFFSET	-8.307	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.388

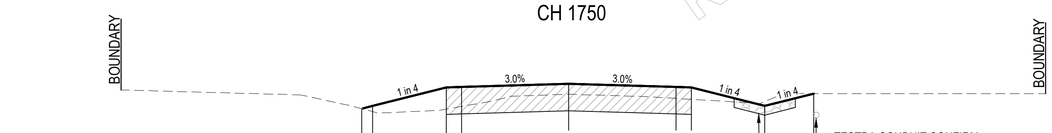
CH 1800



DATUM R.L.91.00

DESIGN LEVELS	93.477	94.077	94.092	94.197	94.092	94.077	93.477	93.525
NATURAL SURFACE	93.265	93.409	93.427	93.550	93.489	93.473	93.515	93.525
OFFSET	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.592

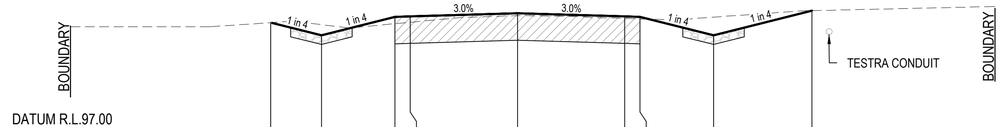
CH 1750



DATUM R.L.91.00

DESIGN LEVELS	93.883	93.972	94.572	94.587	94.692	94.587	94.572	93.972	94.372
NATURAL SURFACE	93.883	93.786	93.864	93.953	94.352	94.216	94.187	94.115	94.372
OFFSET	-6.757	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.001

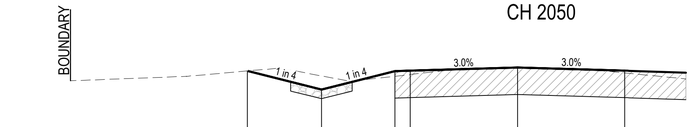
CH 1700



DATUM R.L.97.00

DESIGN LEVELS	100.425	100.011	100.611	100.626	100.731	100.626	100.611	100.011	100.814
NATURAL SURFACE	100.425	100.357	100.388	100.434	100.654	100.561	100.546	100.602	100.814
OFFSET	-8.055	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.611

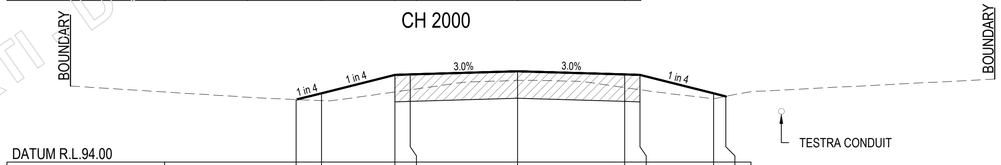
CH 2050



DATUM R.L.96.00

DESIGN LEVELS	99.089	98.485	99.085	99.100	99.205	99.100
NATURAL SURFACE	99.089	98.929	98.916	98.973	99.217	99.024
OFFSET	-8.818	-6.400	-4.000	-3.500	0.000	3.500

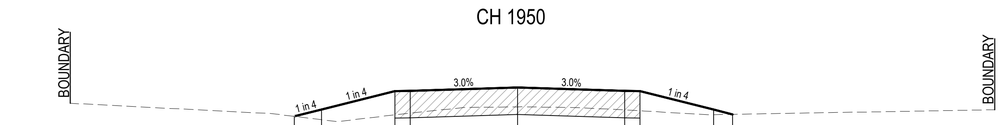
CH 2000



DATUM R.L.94.00

DESIGN LEVELS	96.040	96.246	96.846	96.861	96.966	96.861	96.846	96.246	96.145
NATURAL SURFACE	96.040	96.006	96.288	96.358	96.663	96.432	96.360	96.068	96.145
OFFSET	-7.224	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.805

CH 1950



DATUM R.L.92.00

DESIGN LEVELS	94.369	94.590	95.190	95.205	95.310	95.205	95.190	94.590	94.434
NATURAL SURFACE	94.369	94.261	94.420	94.473	94.680	94.578	94.551	94.423	94.434
OFFSET	-7.284	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.023

CH 1900

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) (metres)

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN.: 671 139 843
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PROJECT:

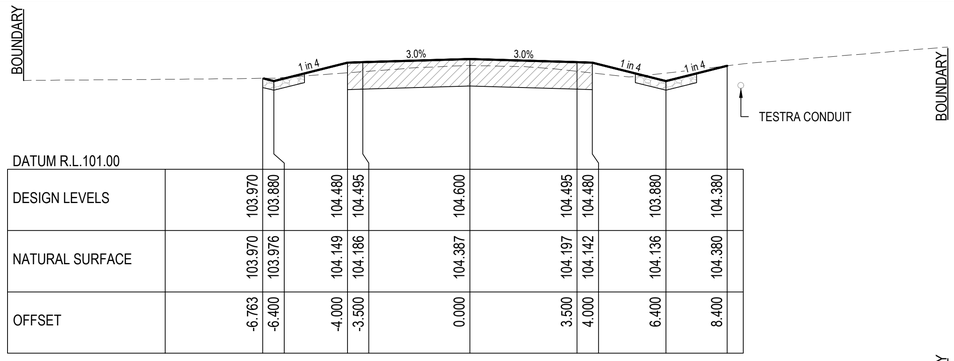
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :

CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 5 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C324 / VERSION: F

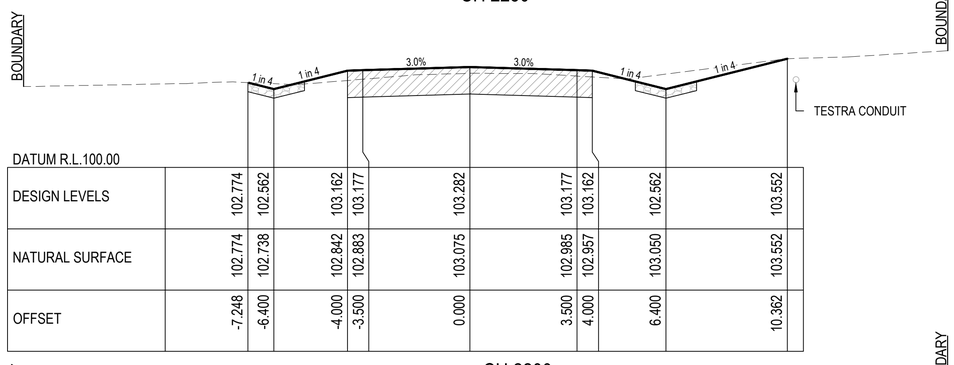
PLOTTED: 28 Mar 2025
FILENAME: N:\Qld_workman ltd.co\job725 - documents\sub2584 info\22823 mt walker quarry access rd\03_cad\01_DA\Rev A\32a_acad\C323 ROADWORKS CROSS SECTIONS SHEET 4 OF 16.dwg



DATUM R.L.101.00

DESIGN LEVELS	103.970	103.880	104.480	104.495	104.600	104.495	104.480	103.880	104.380
NATURAL SURFACE	103.970	103.976	104.149	104.186	104.387	104.197	104.142	104.136	104.380
OFFSET	-6.763	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.400

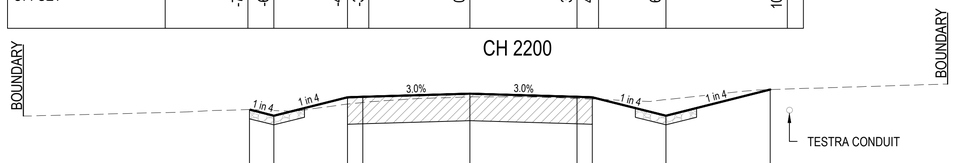
CH 2250



DATUM R.L.100.00

DESIGN LEVELS	102.774	102.562	103.162	103.177	103.282	103.177	103.162	102.562	103.552
NATURAL SURFACE	102.774	102.738	102.842	102.883	103.075	102.985	102.957	103.050	103.552
OFFSET	-7.248	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	10.362

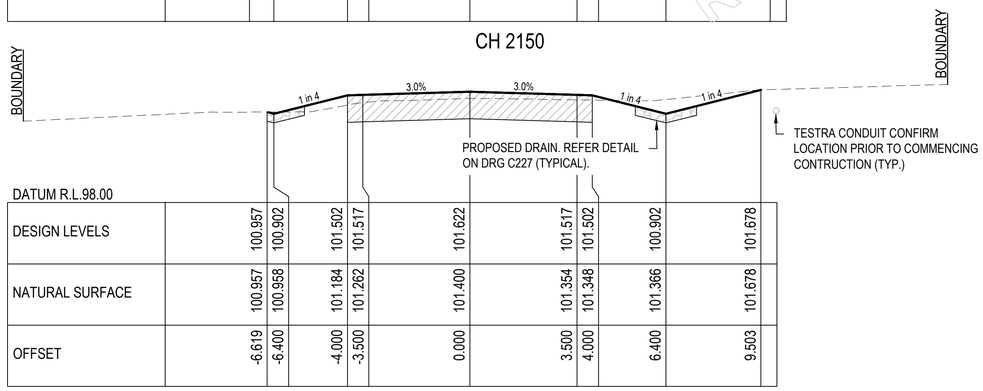
CH 2200



DATUM R.L.99.00

DESIGN LEVELS	101.741	101.543	102.143	102.158	102.263	102.158	102.143	101.543	102.393
NATURAL SURFACE	101.741	101.711	101.919	101.974	102.154	102.101	102.081	102.068	102.393
OFFSET	-7.195	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.801

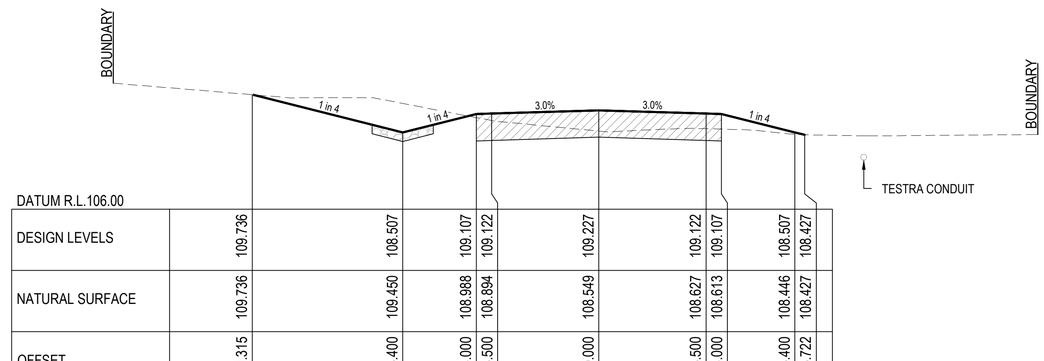
CH 2150



DATUM R.L.98.00

DESIGN LEVELS	100.957	100.902	101.502	101.517	101.622	101.517	101.502	100.902	101.678
NATURAL SURFACE	100.957	100.958	101.184	101.262	101.400	101.354	101.348	101.366	101.678
OFFSET	-6.619	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.503

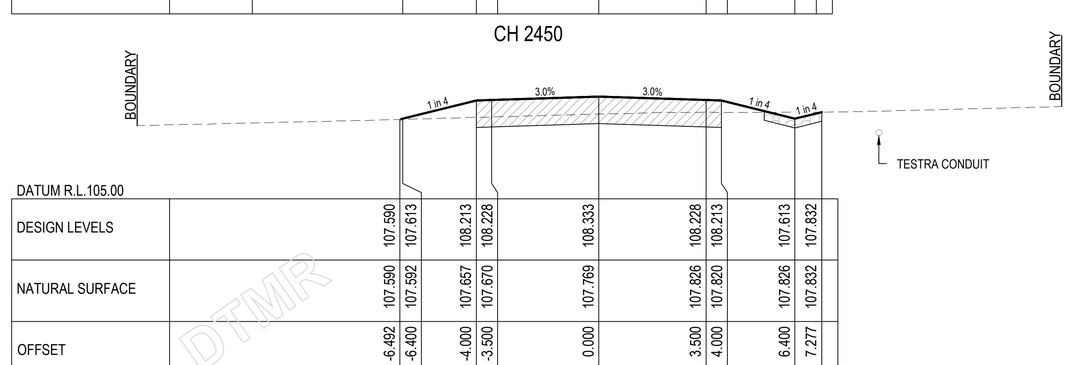
CH 2100



DATUM R.L.106.00

DESIGN LEVELS	109.736	108.507	109.107	109.122	109.227	109.122	109.107	108.507	108.427
NATURAL SURFACE	109.736	109.450	108.988	108.894	108.549	108.627	108.613	108.446	108.427
OFFSET	-11.315	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.722

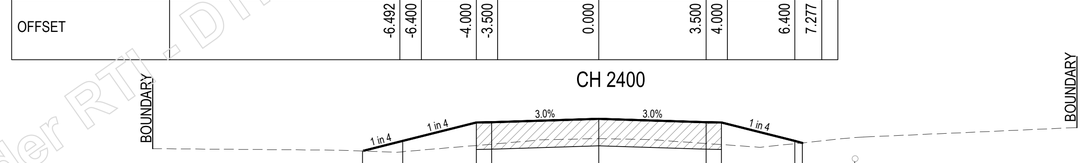
CH 2450



DATUM R.L.105.00

DESIGN LEVELS	107.590	107.613	108.213	108.228	108.333	108.228	108.213	107.613	107.832
NATURAL SURFACE	107.590	107.592	107.657	107.670	107.769	107.826	107.820	107.826	107.832
OFFSET	-6.492	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.277

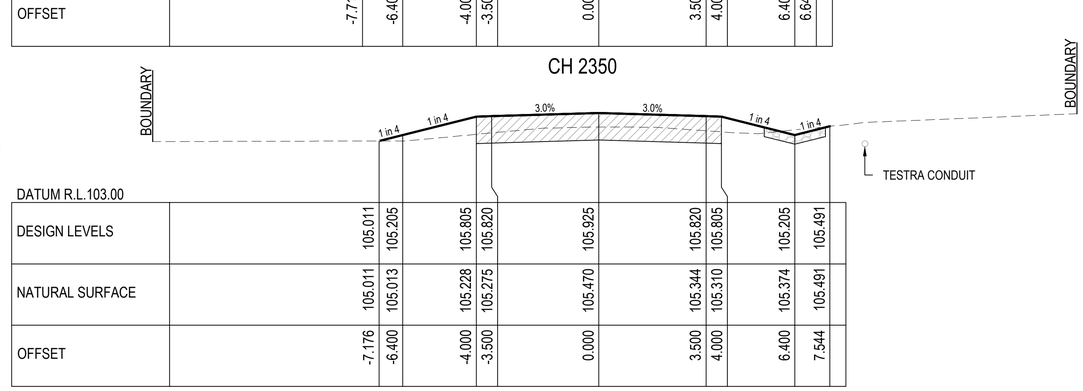
CH 2400



DATUM R.L.104.00

DESIGN LEVELS	106.201	106.530	107.130	107.145	107.250	107.145	107.130	106.530	106.468
NATURAL SURFACE	106.201	106.181	106.384	106.426	106.607	106.447	106.412	106.442	106.468
OFFSET	-7.714	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.647

CH 2350



DATUM R.L.103.00

DESIGN LEVELS	105.011	105.205	105.805	105.820	105.925	105.820	105.805	105.205	105.491
NATURAL SURFACE	105.011	105.013	105.228	105.275	105.470	105.344	105.310	105.374	105.491
OFFSET	-7.176	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.544

CH 2300

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) (metres)

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

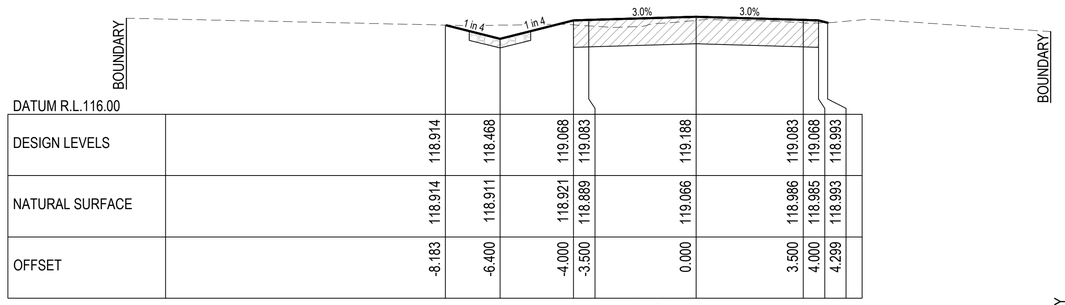
DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 6 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C325	VERSION: F

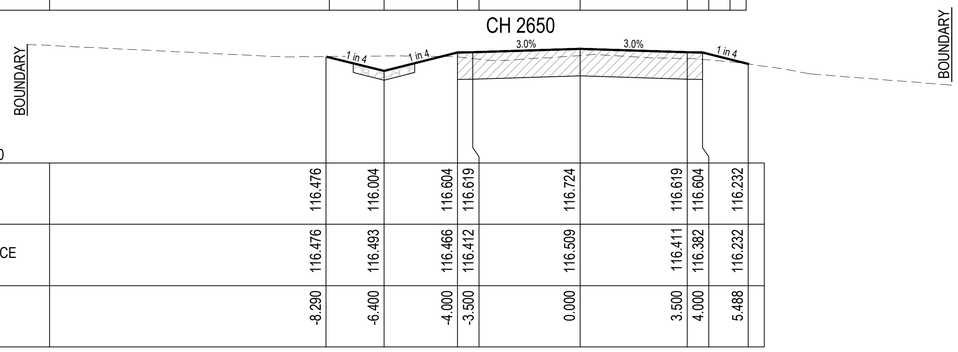
FILENAME: N:\Q\qe vietnam ltd\ca\ca025 - documents\ca025454 (rfq22929) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C328 ROADWORKS CROSS SECTIONS SHEET 6 OF 16.dwg
PLOTTED: 28 Mar 2025



DATUM R.L.116.00

DESIGN LEVELS	118.914	118.468	119.068	119.083	119.188	119.083	119.068	118.993
NATURAL SURFACE	118.914	118.911	118.921	118.889	119.066	118.986	118.985	118.993
OFFSET	-8.183	-6.400	-4.000	-3.500	0.000	3.500	4.000	4.299

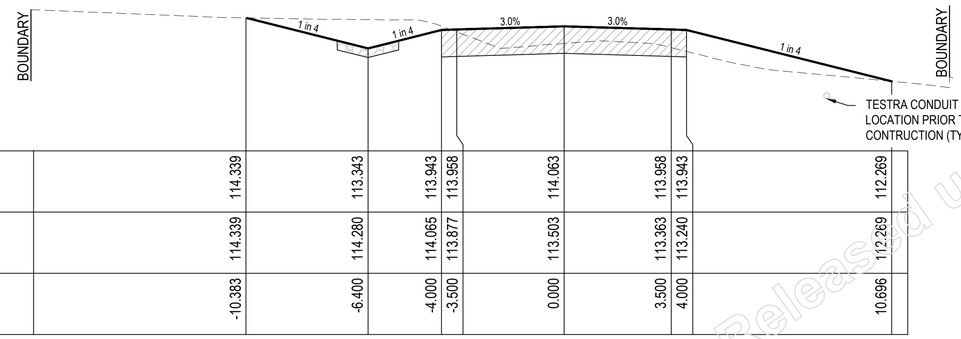
CH 2650



DATUM R.L.113.00

DESIGN LEVELS	116.476	116.004	116.604	116.619	116.724	116.619	116.604	116.232
NATURAL SURFACE	116.476	116.493	116.466	116.412	116.509	116.411	116.382	116.232
OFFSET	-8.290	-6.400	-4.000	-3.500	0.000	3.500	4.000	5.488

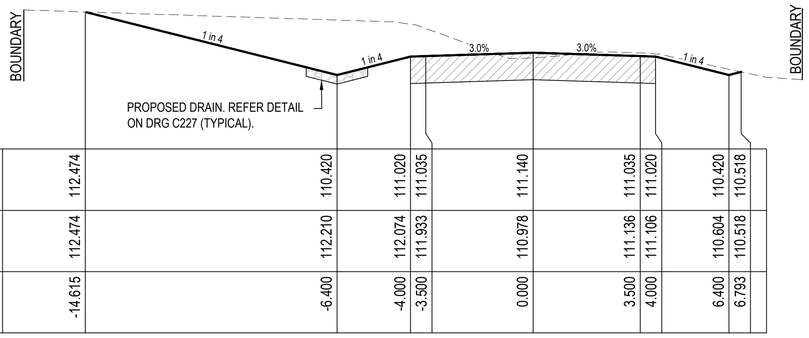
CH 2600



DATUM R.L.110.00

DESIGN LEVELS	114.339	113.343	113.943	113.958	114.063	113.958	113.943	112.269
NATURAL SURFACE	114.339	114.280	114.065	113.877	113.503	113.363	113.240	112.269
OFFSET	-10.383	-6.400	-4.000	-3.500	0.000	3.500	4.000	10.696

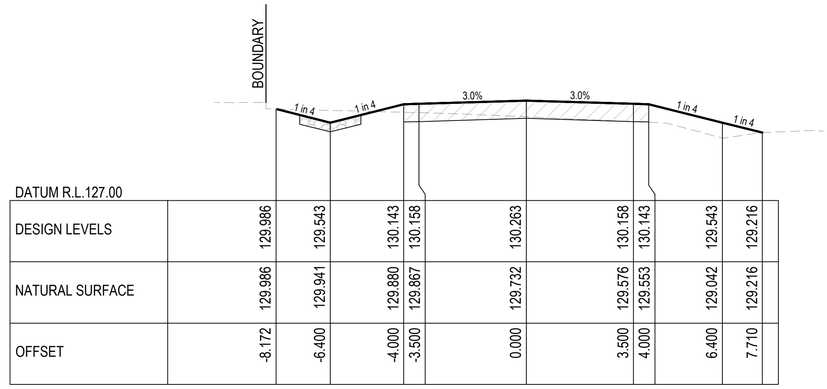
CH 2550



DATUM R.L.108.00

DESIGN LEVELS	112.474	110.420	111.020	111.035	111.140	111.035	111.020	110.420	110.518
NATURAL SURFACE	112.474	112.210	112.074	111.933	110.978	111.136	111.106	110.604	110.518
OFFSET	-14.615	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.793

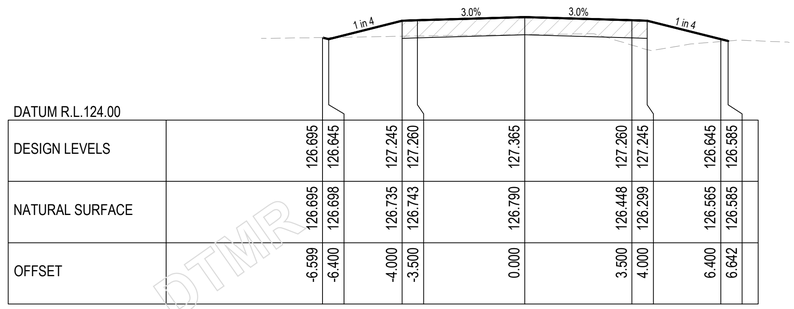
CH 2500



DATUM R.L.127.00

DESIGN LEVELS	129.986	129.543	130.143	130.158	130.263	130.158	130.143	129.543	129.216
NATURAL SURFACE	129.986	129.941	129.880	129.867	129.732	129.576	129.553	129.042	129.216
OFFSET	-8.172	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.710

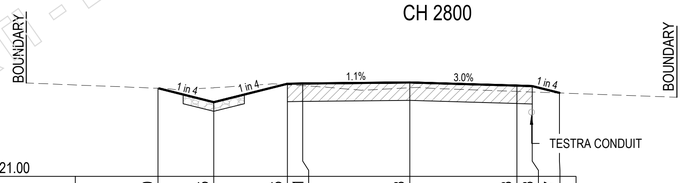
CH 2850



DATUM R.L.124.00

DESIGN LEVELS	126.695	126.645	127.245	127.260	127.365	127.260	127.245	126.645	126.585
NATURAL SURFACE	126.695	126.698	126.735	126.743	126.790	126.448	126.299	126.565	126.585
OFFSET	-6.599	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.642

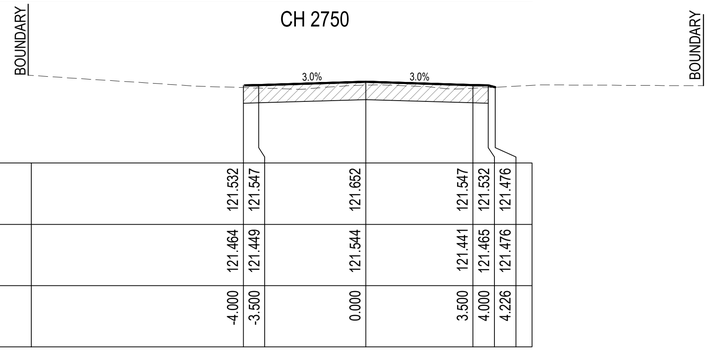
CH 2800



DATUM R.L.121.00

DESIGN LEVELS	123.880	123.425	124.025	124.031	124.068	123.963	123.948	123.727
NATURAL SURFACE	123.880	123.895	123.993	123.964	123.896	123.777	123.759	123.727
OFFSET	-8.219	-6.400	-4.000	-3.500	0.000	3.500	4.000	4.883

CH 2750



DATUM R.L.119.00

DESIGN LEVELS	121.532	121.547	121.652	121.547	121.532	121.476
NATURAL SURFACE	121.464	121.449	121.544	121.441	121.465	121.476
OFFSET	-4.000	-3.500	0.000	3.500	4.000	4.226

CH 2700

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

Released under RTI - DTMR

FILENAME: N:\Qgl_wetmon ltd.ca\sab75_-_documents\sab75bln_info2292$.mt walker quarry access rd\83_civil\01_DA\dwg A3\02_acad\C328 ROADWORKS CROSS SECTION.dwg
PLOTTED: 28 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M N/R
E N/R @nigelfletcherassociates.com.au

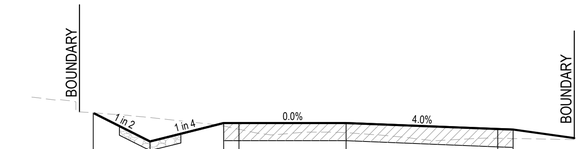
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 7 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C326	VERSION: F

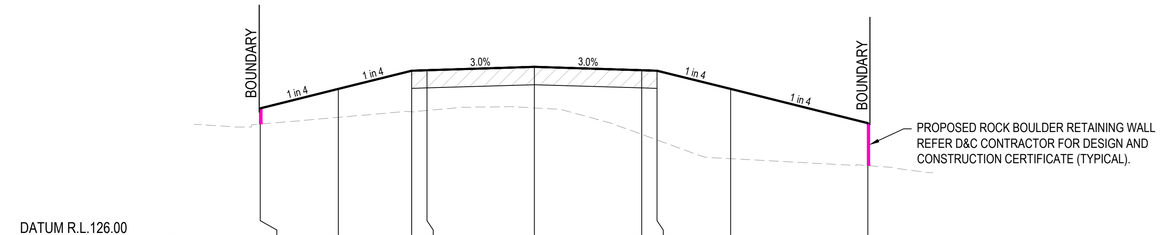


DATUM R.L.129.00								
DESIGN LEVELS	132.133	131.202	131.802	131.802	131.802	131.604	131.584	
NATURAL SURFACE	132.133	131.975	131.704	131.595	131.484	131.302	131.293	
OFFSET	-8.261	-6.400	-4.000	-3.500	0.000	4.946	5.446	

CH 2950

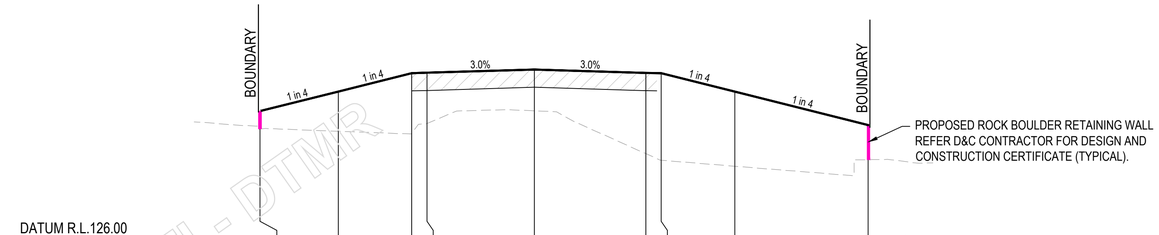
DATUM R.L.129.00								
DESIGN LEVELS	132.788	132.544	133.144	133.114	132.828	132.414	132.384	131.784	131.633
NATURAL SURFACE	132.788	132.741	132.628	132.607	132.409	131.717	131.622	131.587	131.633
OFFSET	-8.652	-7.678	-5.278	-4.778	0.000	6.890	7.390	9.790	10.395

CH 2900



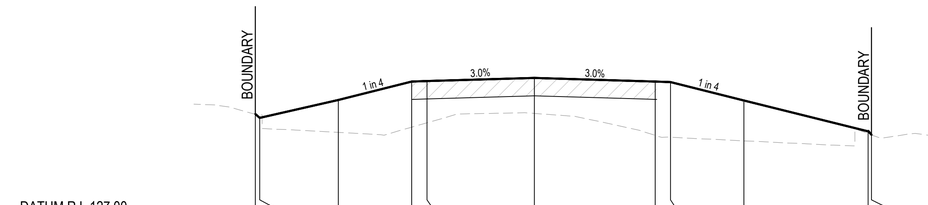
DATUM R.L.126.00									
DESIGN LEVELS	130.167	130.801	131.401	131.416	131.521	131.416	131.401	130.801	129.687
NATURAL SURFACE	129.655	129.876	130.057	130.102	130.183	129.321	129.139	128.530	128.298
OFFSET	-8.945	-6.400	-4.000	-3.500	0.000	3.508	4.008	6.408	10.894

CH 2970



DATUM R.L.126.00									
DESIGN LEVELS	130.097	130.734	131.334	131.349	131.454	131.345	131.330	130.730	129.641
NATURAL SURFACE	129.511	129.438	129.376	129.687	130.104	128.706	128.492	128.296	128.509
OFFSET	-8.952	-6.400	-4.000	-3.500	0.000	3.643	4.143	6.543	10.897

CH 2965



DATUM R.L.127.00									
DESIGN LEVELS	130.304	130.176	130.758	131.358	131.373	131.478	131.360	131.345	130.745	129.732	129.627
NATURAL SURFACE	130.304	130.285	129.699	129.872	130.015	130.319	129.605	129.542	129.425	129.661	129.619
OFFSET	-9.109	-8.959	-6.400	-4.000	-3.500	0.000	3.946	4.446	6.846	10.899	11.013

CH 2960

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN...671 139 843
M: N/R
E: N/R nigelfletcherassociates.com.au

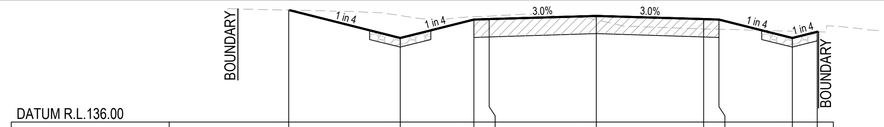
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 8 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C327 / VERSION: F

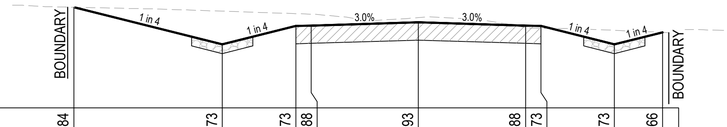
Released under RTI - DTMR

FILENAME: N:\Q\qc_vatman_ltd_ca\ca025_-_documents\ca025014_rfa22023_mt_walker_quarry_access_rd\13_civil\01_DA\Rev A\02_acad\C329_ROADWORKS_CROSS_SECTIONS.dwg
PLOTTED: 28 Mar 2025



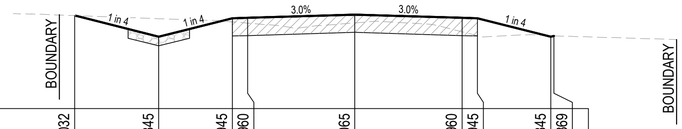
DATUM R.L.136.00								
DESIGN LEVELS	139.654	138.743	139.343	139.358	139.463	139.358	139.343	138.743	138.947
NATURAL SURFACE	139.654	139.474	139.439	139.456	139.337	139.041	139.028	138.967	138.947
OFFSET	-10.043	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.214

CH 3150



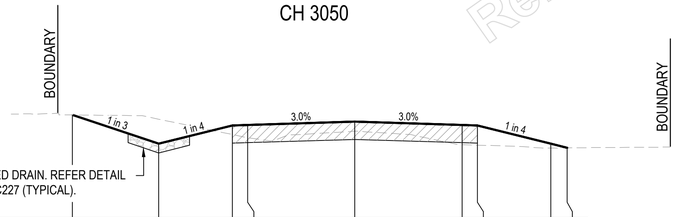
DATUM R.L.136.00								
DESIGN LEVELS	139.284	138.073	138.673	138.688	138.793	138.688	138.673	138.073	138.466
NATURAL SURFACE	139.284	139.158	139.077	139.061	138.946	138.616	138.598	138.532	138.466
OFFSET	-11.247	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.975

CH 3100



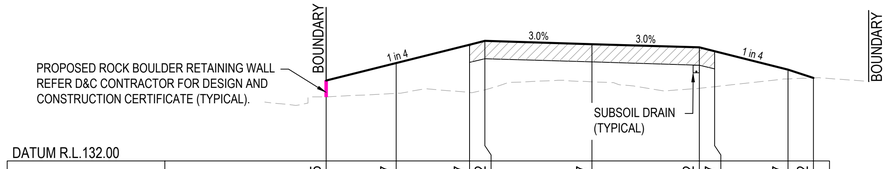
DATUM R.L.133.00								
DESIGN LEVELS	136.032	135.345	135.945	135.960	136.065	135.960	135.945	135.345	135.369
NATURAL SURFACE	136.032	135.930	135.826	135.785	135.792	135.500	135.377	135.374	135.369
OFFSET	-9.150	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.498

CH 3050



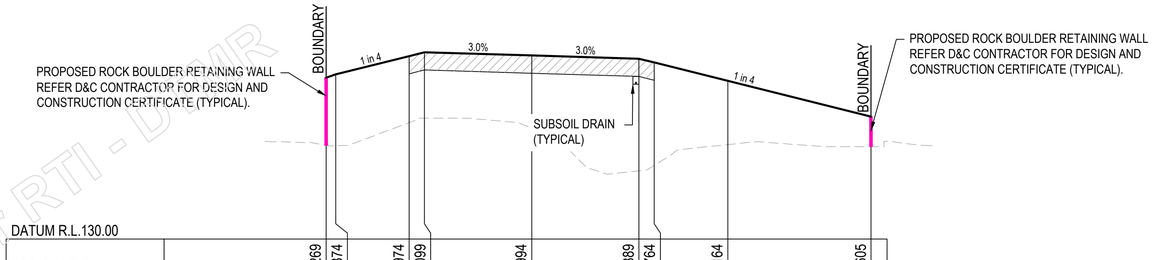
DATUM R.L.130.00								
DESIGN LEVELS	133.351	132.411	133.011	133.026	133.131	133.026	133.011	132.411	132.277
NATURAL SURFACE	133.351	133.212	132.710	132.610	132.817	132.383	132.366	132.271	132.277
OFFSET	-9.221	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.934

CH 3000



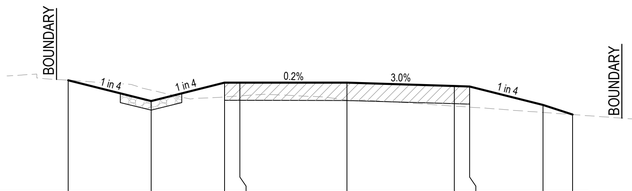
DATUM R.L.132.00								
DESIGN LEVELS	134.435	135.197	135.797	135.922	135.817	135.712	135.587	134.987	134.712
NATURAL SURFACE	134.095	134.206	134.240	134.325	134.587	134.373	134.428	134.682	134.712
OFFSET	-8.684	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.222

CH 3250



DATUM R.L.130.00								
DESIGN LEVELS	135.269	135.374	135.974	136.099	135.994	135.889	135.764	135.164	133.605
NATURAL SURFACE	133.060	133.045	133.801	133.945	133.631	132.225	132.406	133.083	133.016
OFFSET	-6.714	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	11.075

CH 3240



DATUM R.L.134.00								
DESIGN LEVELS	137.658	136.982	137.582	137.581	137.576	137.471	137.456	136.856	136.536
NATURAL SURFACE	137.658	137.335	137.114	137.146	137.001	136.813	136.779	136.605	136.536
OFFSET	-9.106	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.360

CH 3200

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

Released under RTI - DMR

FILENAME: N:\Q\qe_vietnam ltd\ca\ca025 - documents\ca025454 (rfq22923) mt walker quarry access rd\03 - civil\01 DA\Rev A\02 ausCAD\328 ROADWORKS CROSS SECTION.dwg
PLOTTED: 28 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

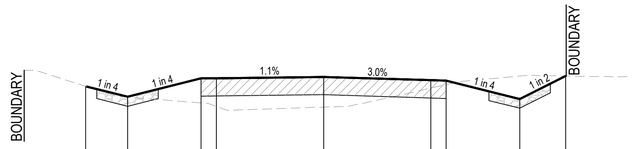
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 9 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

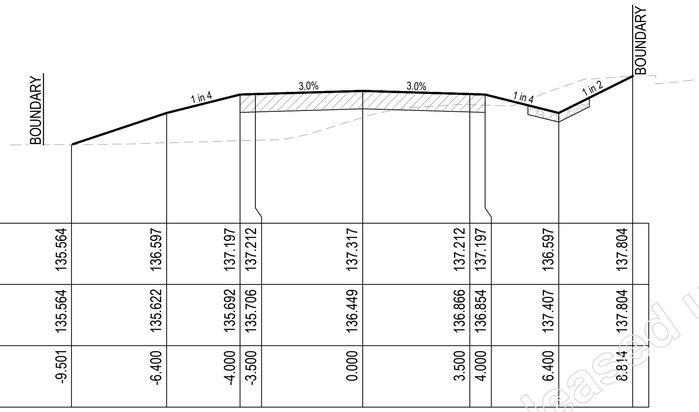
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C328	VERSION: F



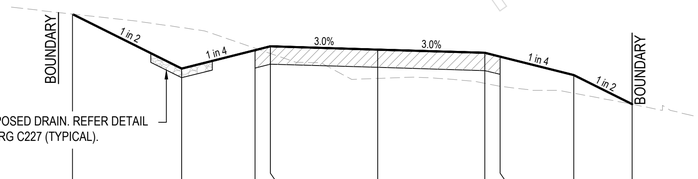
DATUM R.L.137.00									
DESIGN LEVELS	140.476	140.133	140.733	140.739	140.779	140.674	140.659	140.059	140.811
NATURAL SURFACE	140.476	140.122	139.932	139.818	139.795	140.415	140.528	140.809	140.811
OFFSET	-7.770	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.905

CH 3400



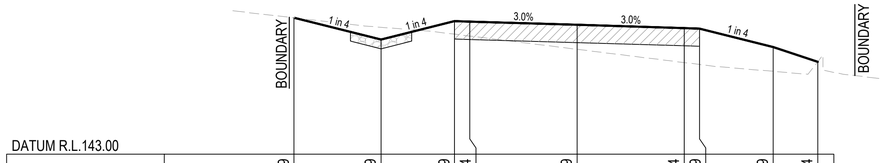
DATUM R.L.133.00									
DESIGN LEVELS	135.564	136.597	137.197	137.212	137.317	137.212	137.197	136.597	137.804
NATURAL SURFACE	135.564	135.622	135.692	135.706	136.449	136.866	136.854	137.407	137.804
OFFSET	-9.501	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.814

CH 3350



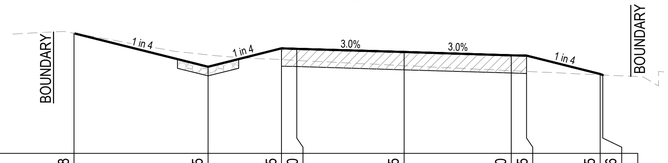
DATUM R.L.131.00									
DESIGN LEVELS	136.690	134.911	135.511	135.636	135.531	135.426	135.301	134.701	133.747
NATURAL SURFACE	136.690	136.249	135.575	135.404	134.592	134.428	134.335	134.106	133.747
OFFSET	-9.959	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.307

CH 3300



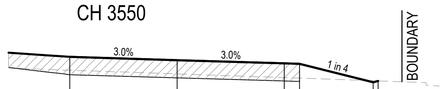
DATUM R.L.143.00								
DESIGN LEVELS	147.449	146.739	147.339	147.324	147.219	147.114	147.099	146.499	146.014
NATURAL SURFACE	147.449	147.141	146.916	146.854	146.421	145.988	145.927	145.702	146.014
OFFSET	-9.239	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.855

CH 3600



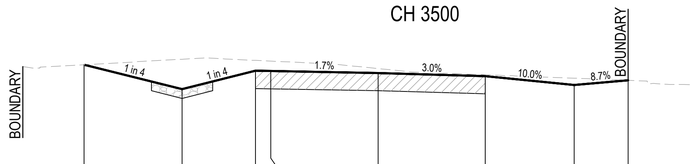
DATUM R.L.144.00									
DESIGN LEVELS	147.918	146.825	147.425	147.410	147.305	147.200	147.185	146.585	146.556
NATURAL SURFACE	147.918	147.214	147.066	147.031	146.860	146.696	146.672	146.560	146.556
OFFSET	-10.772	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.486

CH 3550



DATUM R.L.143.00						
DESIGN LEVELS	145.884	145.779	145.674	145.659	145.059	145.099
NATURAL SURFACE	145.448	145.328	145.208	145.190	145.104	145.099
OFFSET	-3.500	0.000	3.500	4.000	6.400	6.561

CH 3500



DATUM R.L.140.00								
DESIGN LEVELS	143.546	142.748	143.348	143.339	143.279	143.174	142.884	143.037
NATURAL SURFACE	143.546	143.725	143.688	143.665	143.421	143.218	143.106	143.037
OFFSET	-9.596	-6.400	-4.000	-3.500	0.000	3.500	6.400	8.164

CH 3450

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) 1 0 1 2 3 4 5 (metres)

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN.: 671 139 843
M. N/R
E. N/R nigelfletcherassociates.com.au

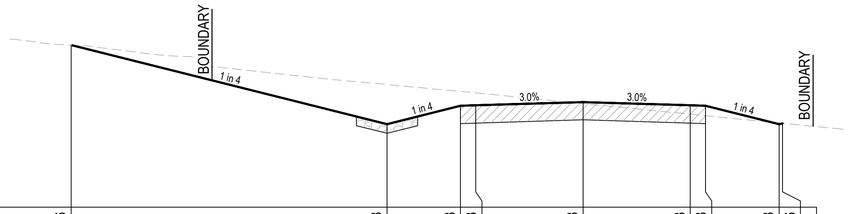
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 10 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C329 / VERSION: F

RTI-Release.pdf - Page Number: 73 of 448

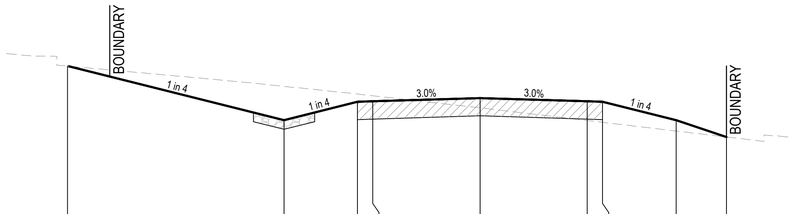
PLOTTED: 28 Mar 2025
FILENAME: N:\Qld_walkman_ltd.co\job725 - documents\sub725#4 info\28293 mt walker quarry access rd\03, civil\01, DA\Rev A\02a_aud\C329 ROADWORKS CROSS SECTIONS.dwg



DATUM R.L.145.00

DESIGN LEVELS	150.286	147.708	148.308	148.323	148.428	148.323	148.308	147.708	147.736
NATURAL SURFACE	150.286	148.999	148.775	148.727	148.380	148.033	147.984	147.747	147.736
OFFSET	-16.713	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.512

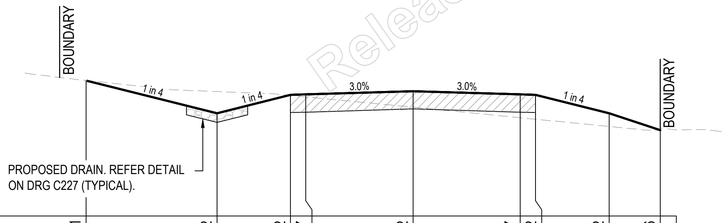
CH 3750



DATUM R.L.145.00

DESIGN LEVELS	149.984	148.217	148.817	148.832	148.937	148.832	148.817	148.217	147.668
NATURAL SURFACE	149.984	149.321	149.070	149.014	148.619	148.205	148.146	147.863	147.668
OFFSET	-13.466	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.048

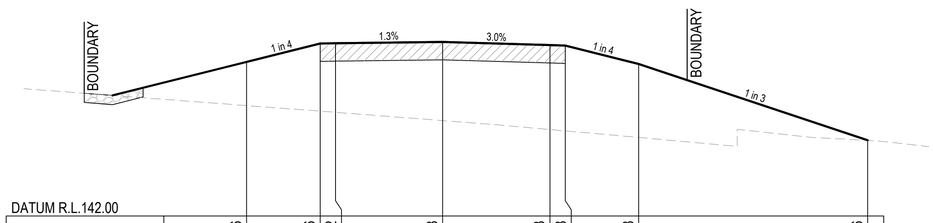
CH 3700



DATUM R.L.144.00

DESIGN LEVELS	148.421	147.352	147.952	147.967	148.072	147.967	147.952	147.352	146.796
NATURAL SURFACE	148.421	148.059	147.932	147.884	147.550	147.206	147.156	146.920	146.795
OFFSET	-10.676	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.068

CH 3650



DATUM R.L.142.00

DESIGN LEVELS	147.026	147.626	147.632	147.678	147.573	147.558	146.958	144.466
NATURAL SURFACE	145.601	145.419	145.382	145.111	144.820	144.775	144.561	144.466
OFFSET	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	13.877

CH 3800

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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M
E N/R
@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 11 OF 16

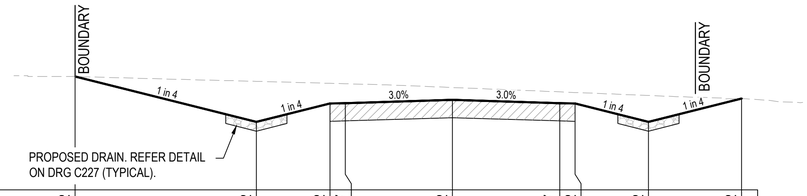
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C330	VERSION: F

Released under RTI - DTMR

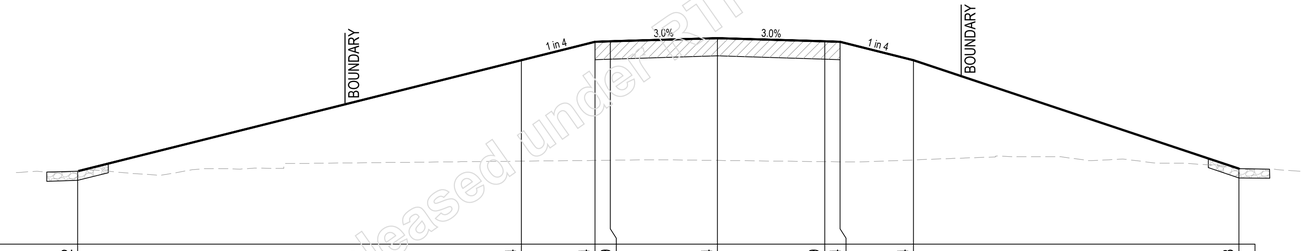
FILENAME: N:\Qld\qc vietnam ltd\ca\ca025 - documents\ca025454 (rfq22323) mt walker quarry access rd\83. civil\01. DA\Rev A\A2. dwg\C328 ROADWORKS CROSS SECTIONS SHEET 11 OF 16.dwg
PLOTTED: 28 Mar 2025



DATUM R.L.146.00

DESIGN LEVELS	149.692	148.212	148.812	148.827	148.932	148.827	148.812	148.212	148.972
NATURAL SURFACE	149.692	149.536	149.473	149.460	149.337	149.194	149.174	149.076	148.972
OFFSET	-12.319	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.437

CH 3900



DATUM R.L.141.00

DESIGN LEVELS	143.382	147.004	147.604	147.619	147.724	147.619	147.604	147.004	143.463
NATURAL SURFACE	143.382	143.709	143.734	143.739	143.733	143.692	143.686	143.749	143.463
OFFSET	-20.888	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	17.022

CH 3850

Released under RTI - DTMR

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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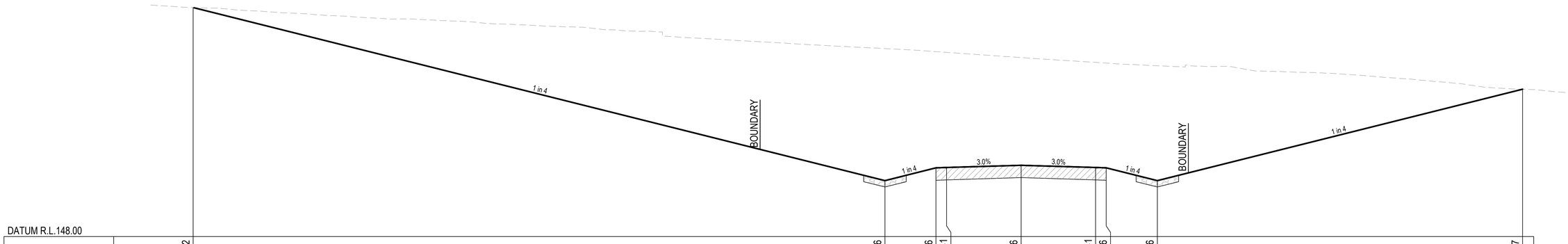
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 12 OF 16

DEVEL. APPLIC. No. :		DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG	
DRAFTSPERSON : TB	CHECKED : NF	
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]	
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C331	VERSION: F

FILENAME N:\Qld_Wetmix_Ltd_ca\ca025 - documents\ca025014_int27229.01 mt walker quarry access rd\03_civil\01 DA\Rev A\02_acad\C328 ROADWORKS CROSS SECTIONS.dwg
PLOTTED: 28 Mar 2025



DATUM R.L.148.00

DESIGN LEVELS	158.752	150.626	151.226	151.241	151.346	151.241	151.226	150.626	154.917
NATURAL SURFACE	158.752	156.827	156.683	156.648	156.404	156.176	156.144	156.020	154.917
OFFSET	-38.906	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	23.565

CH 4050

DATUM R.L.148.00

DESIGN LEVELS	158.876	150.490	151.090	151.105	151.210	151.105	151.090	150.490	155.262
NATURAL SURFACE	158.876	157.239	157.134	157.101	156.811	156.503	156.470	156.428	155.262
OFFSET	-39.944	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	25.487

CH 4000

Released under RTI - DTMR

ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN - 671 139 843
M. N/R
E. N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

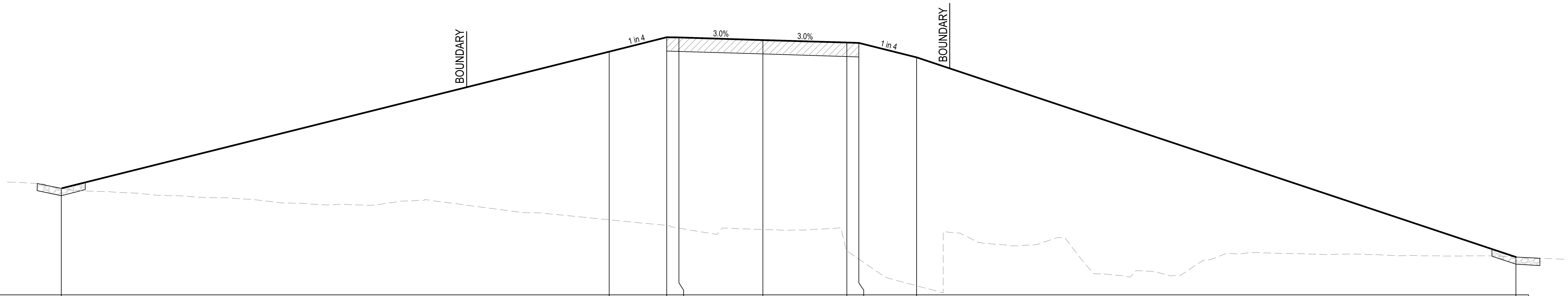
DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 13 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C332	VERSION: F

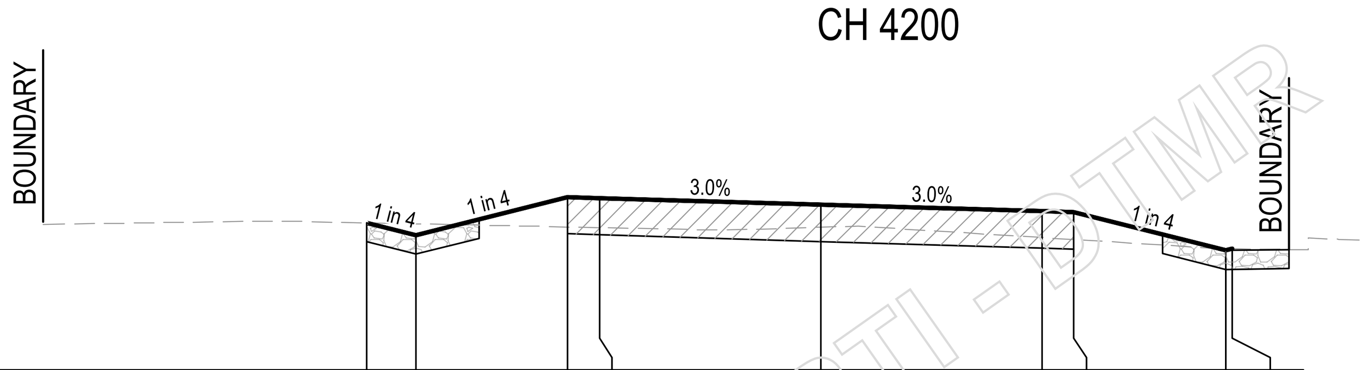
FILENAME: N:\Qld_Watmon Ltd.ca\sub705 - documents\sub705016.inf\2292\3 mt walker quarry access rd\83. civil\31 DA\dwg A3\02. acad\C328 ROADWORKS CROSS SECTION.dwg
PLOTTED: 28 Mar 2025



DATUM R.L.139.00

DESIGN LEVELS	143.435	149.140	149.740	149.725	149.620	149.515	149.500	148.900	140.580
NATURAL SURFACE	143.435	142.129	141.902	141.784	141.726	140.835	140.492	139.380	140.580
OFFSET	-29.218	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	31.360

CH 4200



DATUM R.L.147.00

DESIGN LEVELS	149.323	149.129	149.729	149.714	149.609	149.504	149.489	148.889	148.915
NATURAL SURFACE	149.323	149.307	149.258	149.248	149.253	149.090	149.059	148.917	148.915
OFFSET	-7.176	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	6.505

CH 4150

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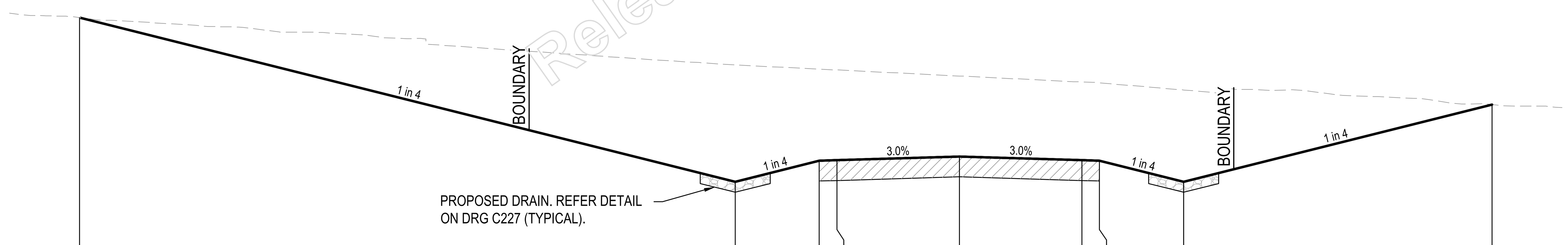

DATUM R.L.148.00

DESIGN LEVELS	154.543	149.863	150.463	150.478	150.583	150.478	150.463	149.863	152.064
NATURAL SURFACE	154.543	153.193	153.075	153.050	152.878	152.709	152.683	152.480	152.064
OFFSET	-25.117	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	15.202

CH 4100

ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C320 ROADWORKS CROSS SECTION.dwg

PLOTTED: 20 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M N/R
E N/R @nigelfletcherassociates.com.au

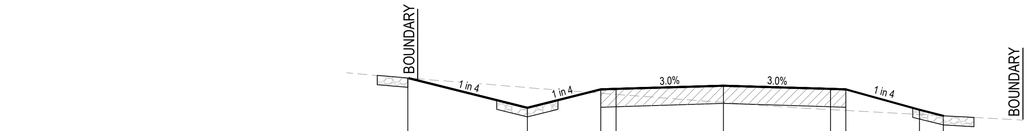
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 14 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

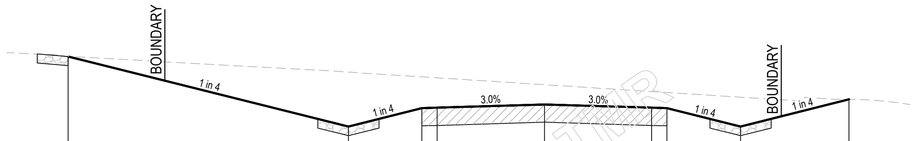
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C333	VERSION: F



DATUM R.L.153.00

DESIGN LEVELS	156.379	155.405	156.005	156.020	156.125	156.020	156.005	155.405	155.145	
NATURAL SURFACE	156.379	156.063	155.880	155.842	155.578	155.347	155.320	155.188	155.145	
OFFSET	-10.296	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.181	

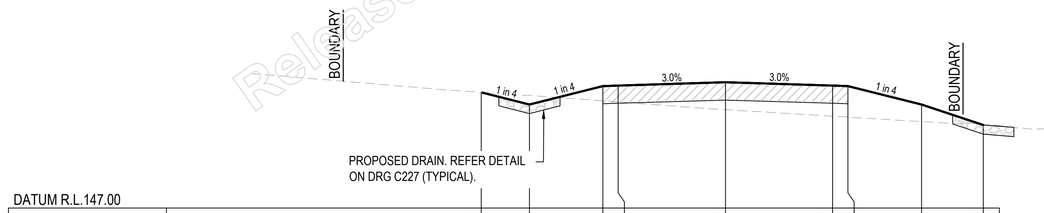
CH 4350



DATUM R.L.151.00

DESIGN LEVELS	155.164	152.876	153.476	153.491	153.596	153.491	153.476	152.876	153.762	
NATURAL SURFACE	155.164	154.651	154.498	154.466	154.242	154.017	153.986	153.834	153.762	
OFFSET	-15.552	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	9.942	

CH 4300



DATUM R.L.147.00

DESIGN LEVELS	150.774	150.381	150.981	150.996	151.101	150.996	150.981	150.381	149.709	
NATURAL SURFACE	150.774	150.670	150.496	150.460	150.204	149.996	149.966	149.820	149.709	
OFFSET	-7.975	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	8.416	

CH 4250

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ISSUE FOR APPROVAL

SCALE 1 0 1 2 3 4 5 (metres)

1 : 100 (FULL SIZE)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:

MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :

CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 15 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.

N/R

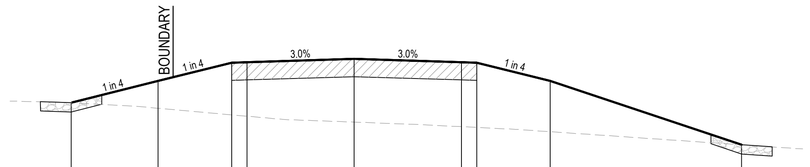
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C334	F

FILENAME: N:\Civil_Projects\210173P - Documents\Job\25814 Info\22023 mt walker quarry access rd\3x_civil\01_DA\Rev A\A1_acad\C329 ROADWORKS CROSS SECTIONS.dwg

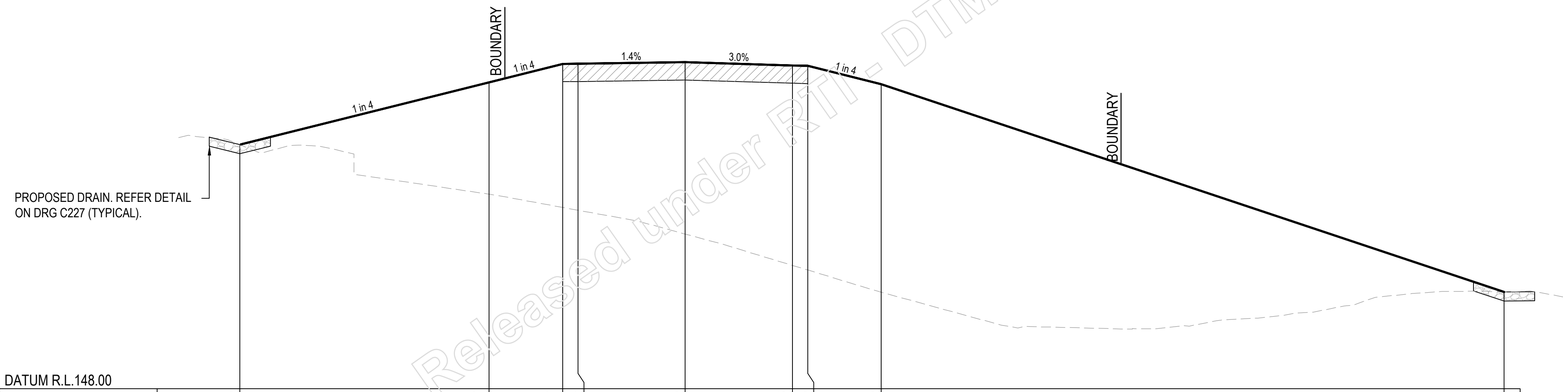
PLOTTED: 28 Mar 2025



DATUM R.L.156.00

DESIGN LEVELS	159.724	160.434	161.034	161.049	161.154	161.049	161.034	160.434	158.352
NATURAL SURFACE	159.724	159.545	159.330	159.286	159.093	158.944	158.920	158.780	158.352
OFFSET	-9.238	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	12.644

CH 4450



DATUM R.L.148.00

DESIGN LEVELS	155.963	157.997	158.597	158.604	158.653	158.548	158.533	157.933	151.155
NATURAL SURFACE	155.963	154.346	153.915	153.824	153.047	152.022	151.870	151.147	151.155
OFFSET	-14.535	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	26.734

CH 4400

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ISSUE FOR APPROVAL

SCALE 1 : 100 (FULL SIZE) (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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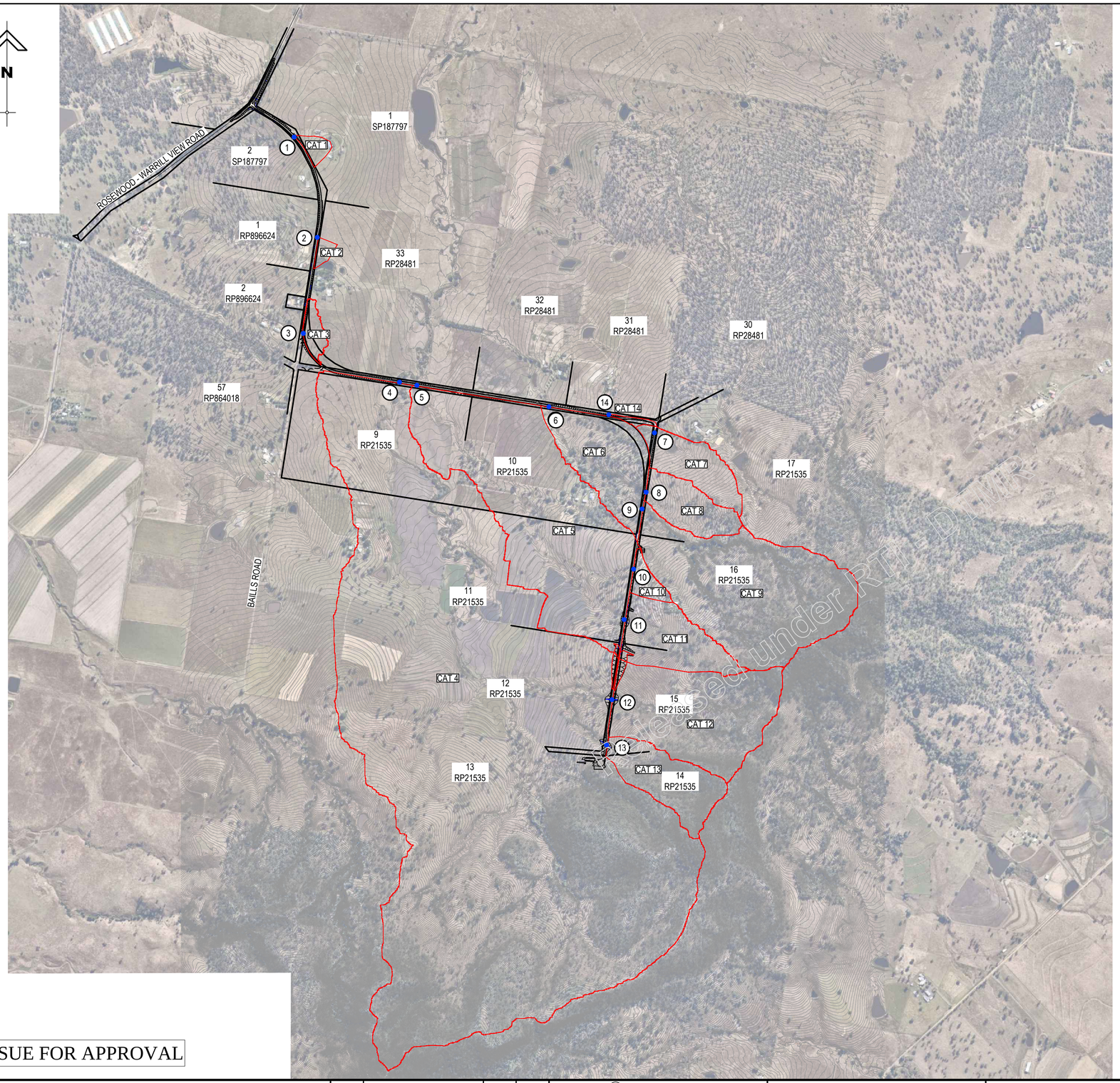
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
ROADWORKS CROSS
SECTIONS SHEET 16 OF 16

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C335 / VERSION: F

FILENAME: N:\Qld_Work\Ltd_Data\Data\25 - Documents\Sub\25016_Info\27923.mt walker quarry access rd\03_Civil\01_DA\Rev A\02_dwg\C328 ROADWORKS CROSS SECTIONS.dwg
PLOTTED: 28 Mar 2025



ROAD CROSSING CULVERT SIZING TABLE

Chainage	Culvert No	Sub-Cat	Area	Design Road level	Cover	Pipe/ Culvert Height	US	DS	Pipe/ Culvert Size	Waterway Barrier Type
			(ha)	(mAHD)	(m)	(m)	(mAHD)	(mAHD)		
CH 252.45	1	Cat 1	1.307	91.637	0.41	0.3	90.8	90.73	1x0.45W x 0.3H	
CH 743.3	2	Cat 2	0.824	96.188	0.44	0.3	95.32	95.25	1x0.45W x 0.3H	
CH 1187.5	3	Cat 3	2.007	101.39	0.27	0.525	100.55	100.32	1x525RCP	
CH 1730.37	4	Cat 4	341.669	94.18	0.49	0.9	92.67	92.02	9x1.2W x 0.9H	HIGH IMPACT (RED)
CH 1808.25	5	Cat 5	75.566	94.6	0.36	0.6	93.51	93.27	5x1.2W x 0.6H	LOW IMPACT (GREEN)
CH 2419.8	6	Cat 6	75.673	108.68	0.35	0.75	107.52	107.35	8x750RCP	LOW IMPACT (GREEN)
CH 2842.5	7	Cat 7	8.67	125.82	0.65	0.6	124.45	123.62	3x0.6W x 0.6H	LOW IMPACT (GREEN)
CH 3150	8	Cat 8	7.9	136.08	2.13	0.6	133.22	131.48	1x1.2W x 0.6H	LOW IMPACT (GREEN)
CH 3226.93	9	Cat 9	43.116	135.63	0.86	0.75	133.96	133.68	6x750RCP	LOW IMPACT (GREEN)
CH 3504.9	10	Cat 10	2.184	147.2	0.47	0.675	146	145.68	1x675RCP	
CH 3744.40	11	Cat 11	12.465	149.6	6.02	0.75	142.77	140.68	1x750RCP	LOW IMPACT (GREEN)
CH 4108.55	12	Cat 12	29.385	149.6	5.62	0.9	143.01	140.6	2x900RCP	LOW IMPACT (GREEN)
CH 4316.68	13	Cat 13	11.927	159.07	6.59	0.75	151.67	150.57	2x750RCP	
CH 2700.00	14	Cat 14	0.511	121.45	0.07	0.375	120.97	120.34	1x375RCP	

CATCHMENT TABLE

Sub-Cat	Area (ha)	T_c (min)	10% AEP (m^3/s)	2% AEP (m^3/s)
Cat 1	1.307	20.20	0.216	0.341
Cat 2	0.824	23.24	0.127	0.200
Cat 3	2.007	26.87	0.283	0.450
Cat 4	341.669	140.04	15.808	25.429
Cat 5	75.566	61.79	6.235	9.969
Cat 6	75.673	46.07	7.622	12.145
Cat 7	8.670	21.58	1.382	2.182
Cat 8	7.900	18.47	1.367	2.162
Cat 9	43.116	30.43	5.657	8.994
Cat 10	2.184	15.00	0.418	0.658
Cat 11	12.465	20.76	2.032	3.207
Cat 12	29.385	26.03	4.224	6.712
Cat 13	11.927	15.27	2.264	3.567
Cat 14	0.511	19.15	0.087	0.137

LEGEND

- ADJOINING PROPERTY BOUNDARY
- CATCHMENT BOUNDARY
- EXISTING MINOR CONTOUR
- 144.0 EXISTING MAJOR CONTOUR
- FUTURE CULVERT LOCATION
- (9) CULVERT No

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS · PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CATCHMENT LAYOUT PLAN

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPR N/R EHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. :

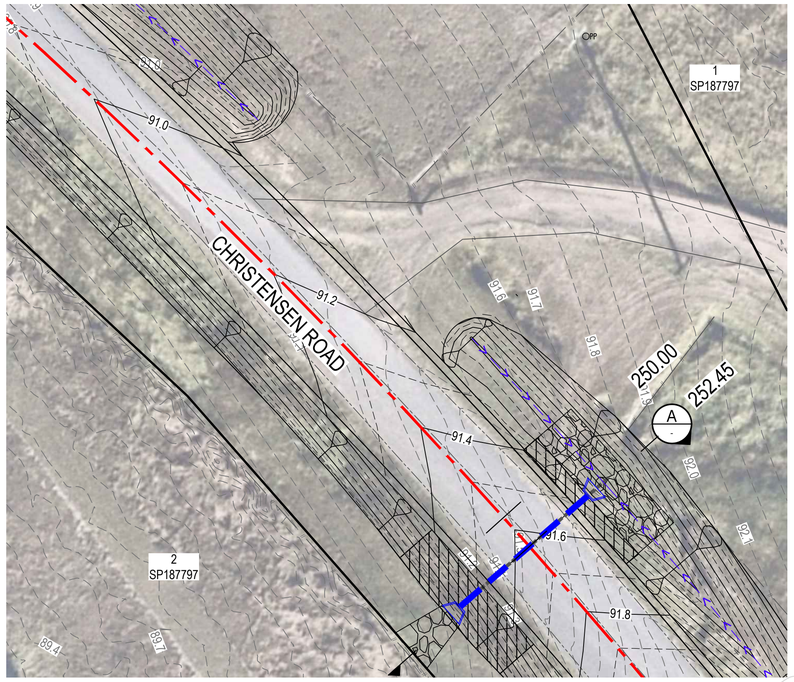
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C339	VERSION: F

PLOTTED: 21 Mar 2025
FILENAME: N:\GIS\cad stations (fg cx\sb025 - documents\sb025\84 info\22023) mt walker quarry access rd\33_civil\01_DA\Rev A\02_dwg\C339 CATCHMENT LAYOUT PLAN.dwg

KEY PLAN
N.T.S.

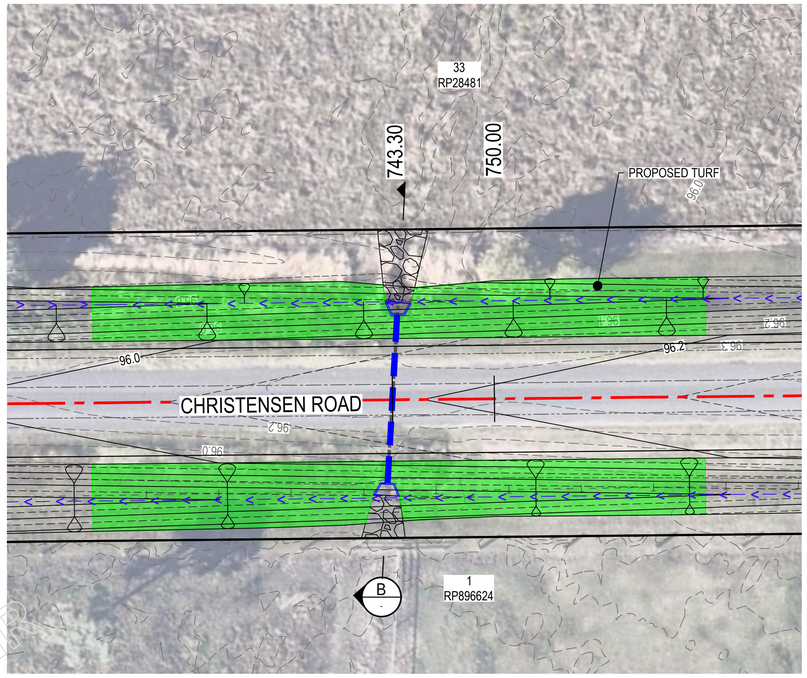
LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- EXISTING CONTOUR (90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- EXISTING FENCE
- EXISTING TELSTRA
- PROPOSED TURF



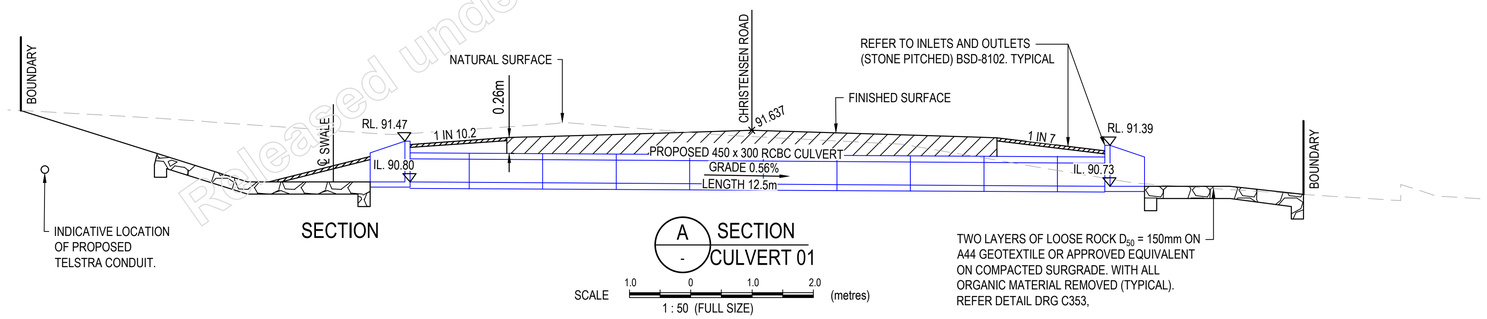
CULVERT 01 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



CULVERT 02 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)

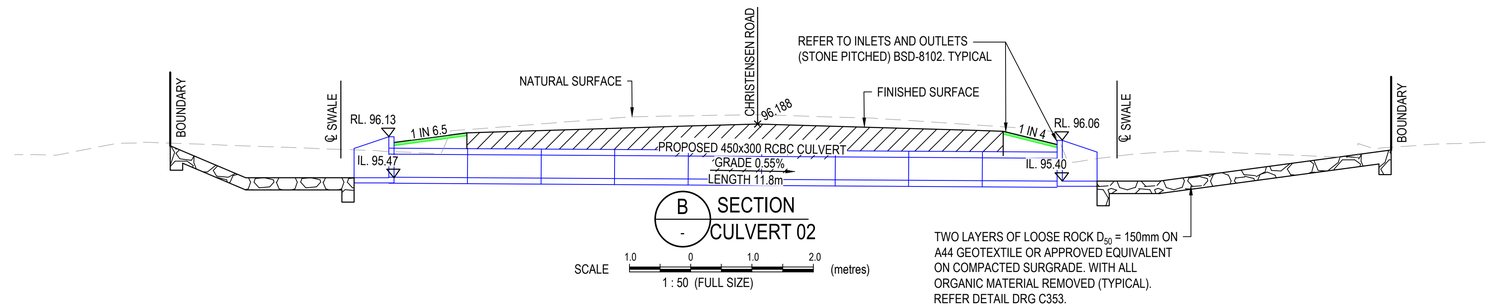


SECTION

A - SECTION CULVERT 01

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

TWO LAYERS OF LOOSE ROCK D_{50} = 150mm ON A44 GEOTEXTILE OR APPROVED EQUIVALENT ON COMPACTED SURGRADE. WITH ALL ORGANIC MATERIAL REMOVED (TYPICAL). REFER DETAIL DRG C353,



B - SECTION CULVERT 02

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

TWO LAYERS OF LOOSE ROCK D_{50} = 150mm ON A44 GEOTEXTILE OR APPROVED EQUIVALENT ON COMPACTED SURGRADE. WITH ALL ORGANIC MATERIAL REMOVED (TYPICAL). REFER DETAIL DRG C353.

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FILENAME: N:\QT\mt walker ltd qx\qx025 - documents\qx025014 info\210173p mt walker quarry access rd\03_civil\01_DA\Rev A\02_dwgs\C345 CULVERT SECTIONS.dwg
PLOTTED: 21 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
A/C N/R
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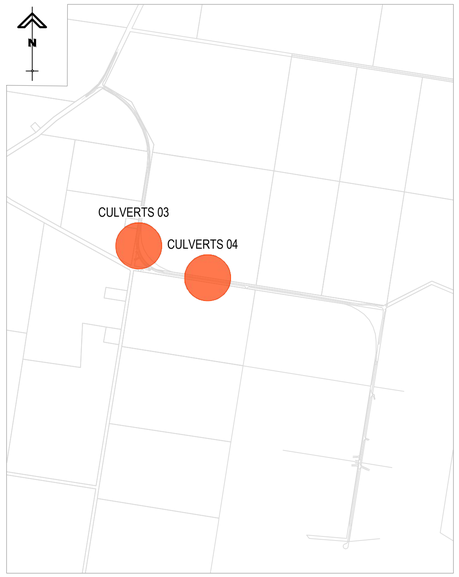
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 1 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

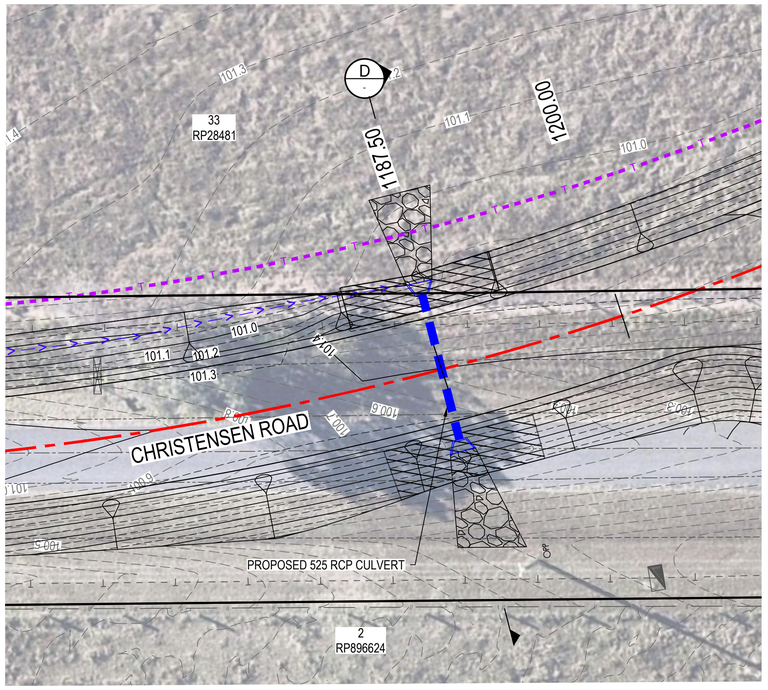
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C340	VERSION: F



KEY PLAN
N.T.S.

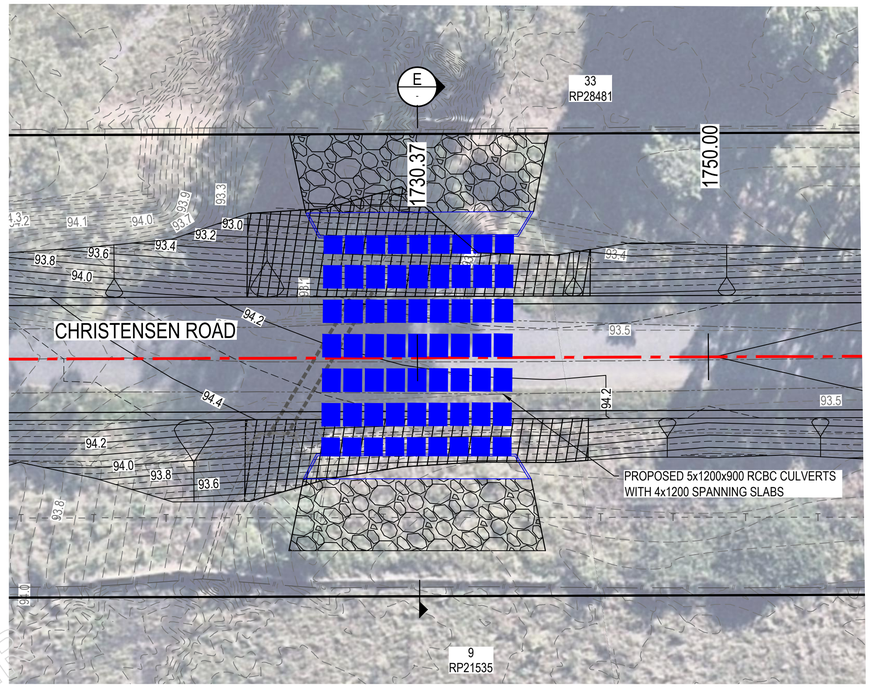
LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- EXISTING POWER POLE
- EXISTING FENCE
- EXISTING TELSTRA
- PROPOSED TELSTRA



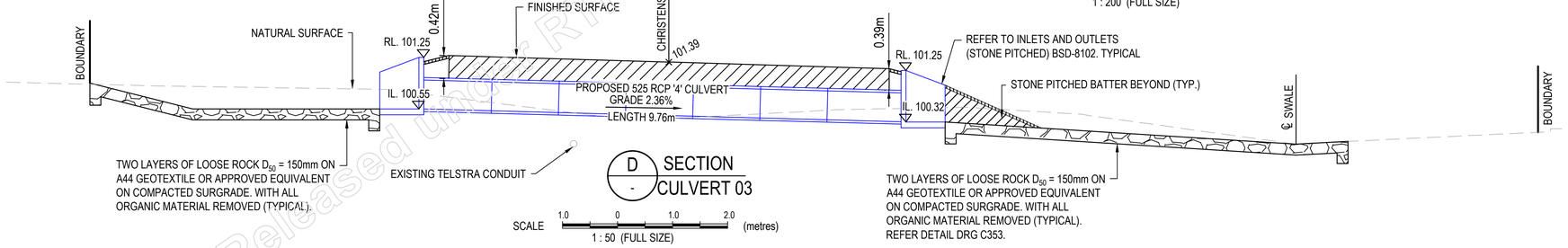
CULVERT 03 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



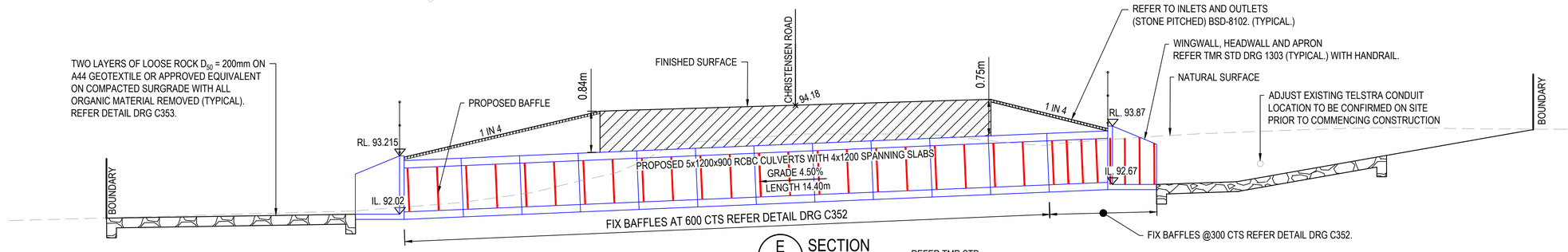
CULVERT 04 DETAIL PLAN
HIGH IMPACT (RED) WATERWAY BARRIER UPGRADE

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



D - SECTION CULVERT 03

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



E - SECTION CULVERT 04

REFER TMR STD
DRGS 1260 + 1271

HIGH IMPACT (RED) WATERWAY BARRIER UPGRADE

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN.: 671 139 843
M.: N/R
E.: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 2 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C341 / VERSION: F

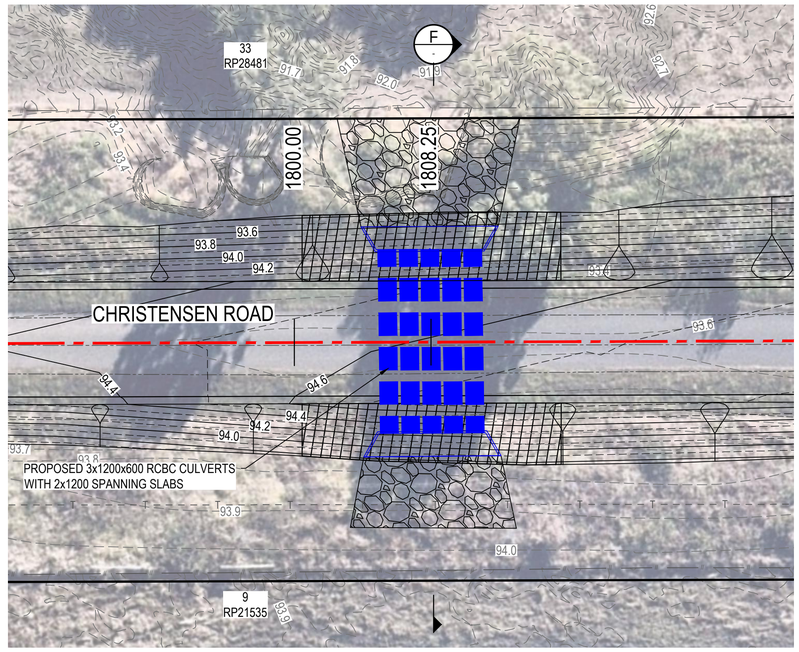
Released under RTI - DTMR

PLOTTED: 21 Mar 2025
FILENAME: N:\Q1\qct walkman ltd co\job725 - documents\sub725dtl inf\210173 mt walker quarry access rd\03_civil\01_DA\Rev A\02_acad\C341 CULVERT SECTIONS.dwg

KEY PLAN
N.T.S.

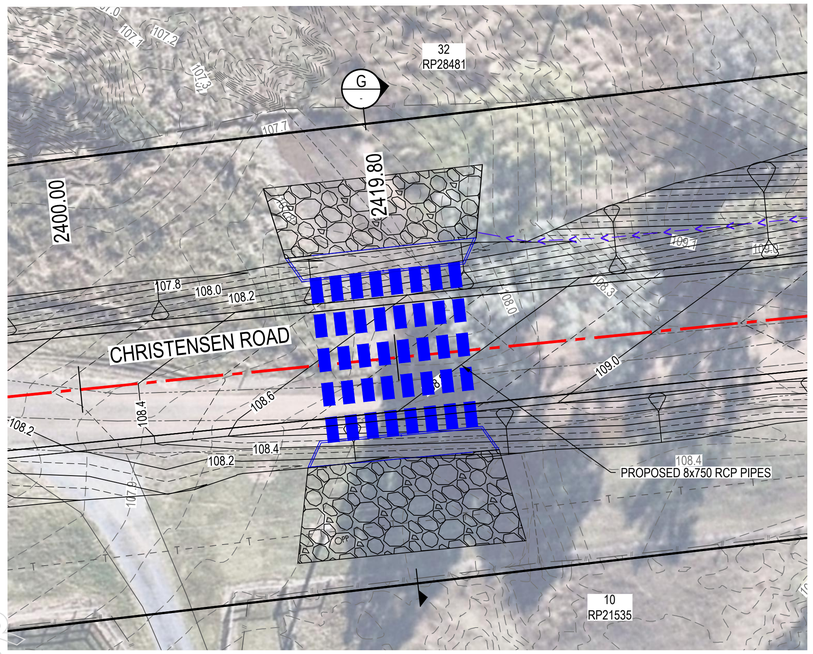
LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- -90.00- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR
- PP EXISTING POWER POLE
- EXISTING FENCE
- EXISTING TELSTRA



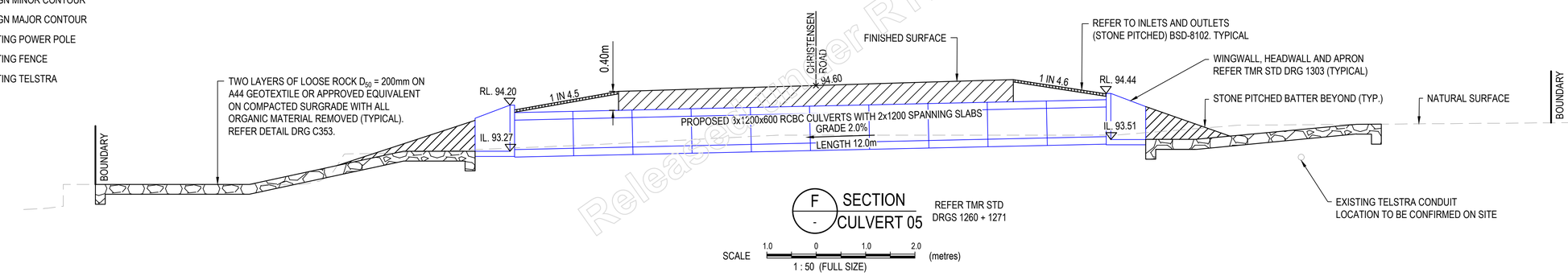
CULVERT 05 DETAIL PLAN
LOW IMPACT (GREEN) WATERWAY

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



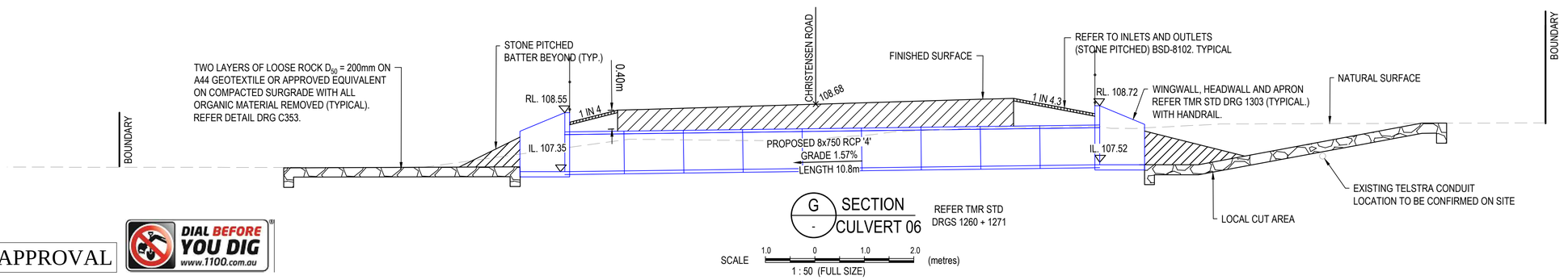
CULVERT 06 DETAIL PLAN
LOW IMPACT (GREEN) WATERWAY

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



F SECTION - CULVERT 05 REFER TMR STD DRGS 1260 + 1271

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



G SECTION - CULVERT 06 REFER TMR STD DRGS 1260 + 1271

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

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FILENAME: N:\Q\Qgc_various_ltd_ca\ca0025 - documents\ca0025014 (mta22023) mt walker quarry access rd\13. civil\01. DA\Rev A\02. acad\Ca0a4 CULVERT SECTION.dwg

PLOTTED: 21 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

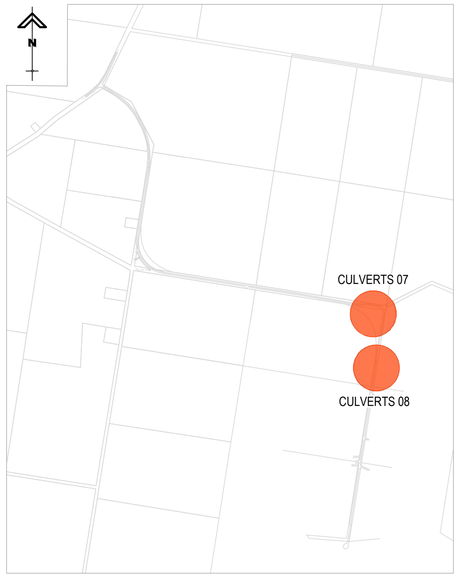
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 3 OF 12

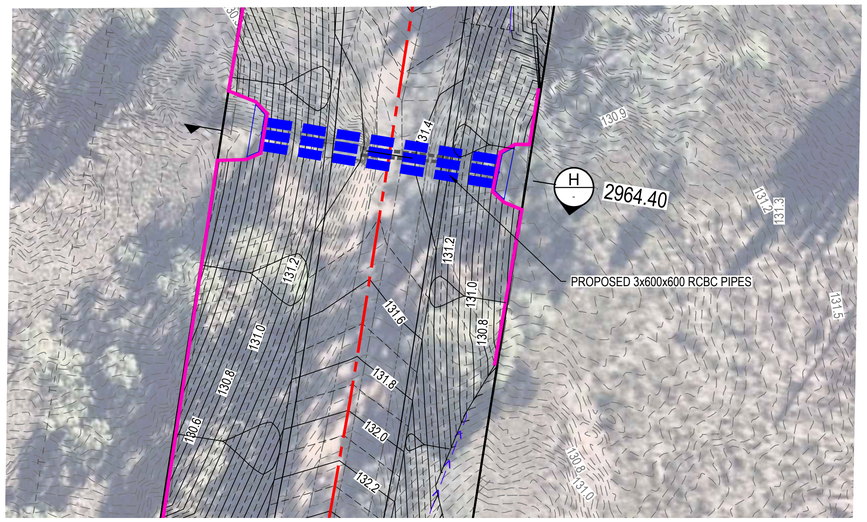
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

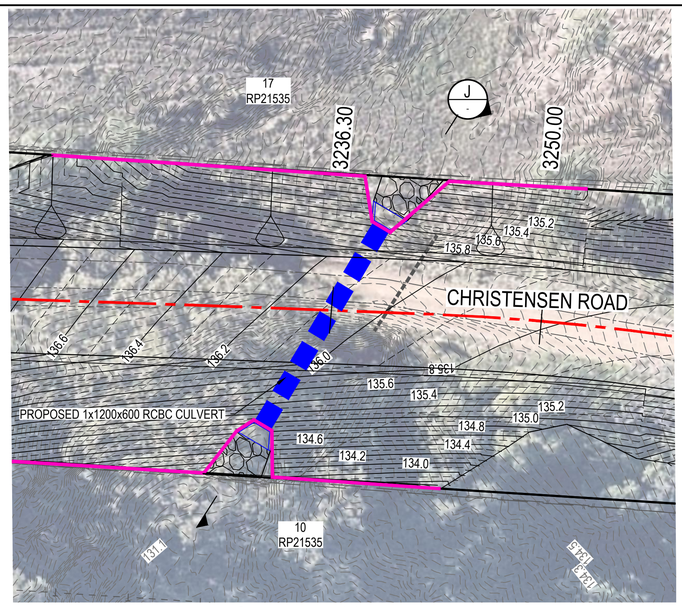
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C342	VERSION: F



KEY PLAN
N.T.S.



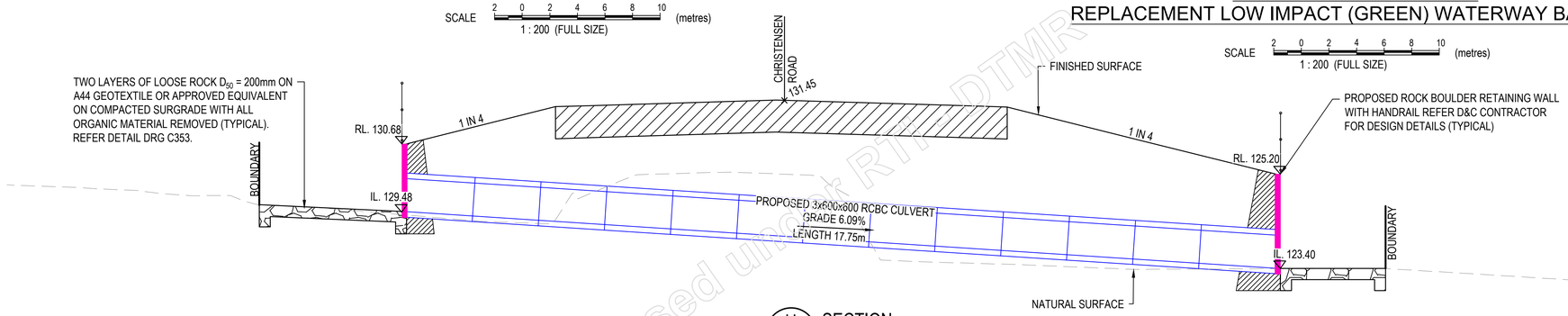
CULVERT 07 DETAIL PLAN
NEW LOW IMPACT (GREEN) WATERWAY BARRIER



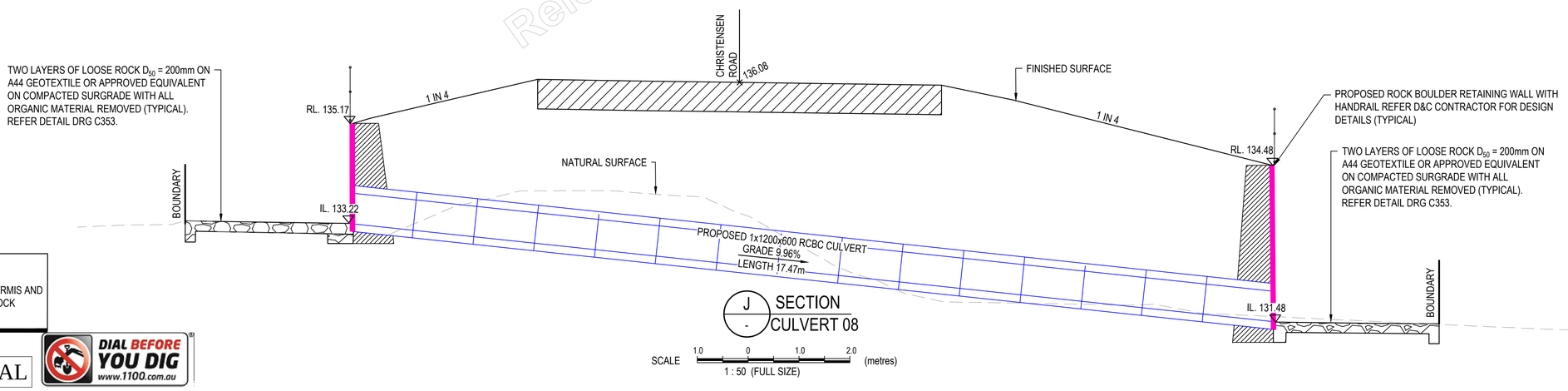
CULVERT 08 DETAIL PLAN
REPLACEMENT LOW IMPACT (GREEN) WATERWAY BARRIER

LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED RETAINING WALL



H - SECTION CULVERT 07



J - SECTION CULVERT 08

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

NOTES:

ROCK BOULDER CONTRACTOR TO PROVIDE FORMIS AND FORMIS CERTIFICATES FOR THE PROPOSED ROCK BOULDER WALLS INTEGRATED WITH CULVERT.

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VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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PO BOX 7217
SOUTHPORT PARK QLD 4215
A/C N/R
M N/R
E N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND PLAN SHEET 4 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C343	VERSION: F

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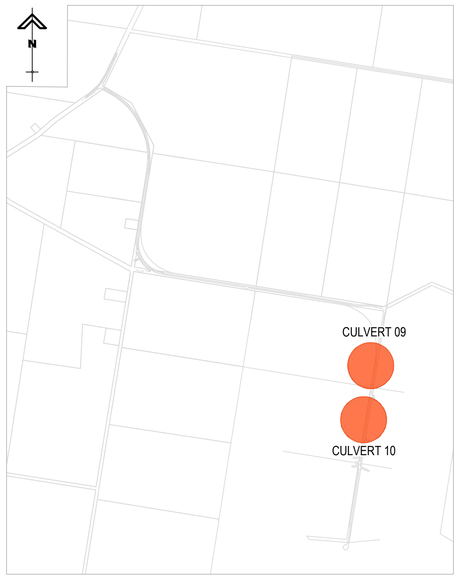
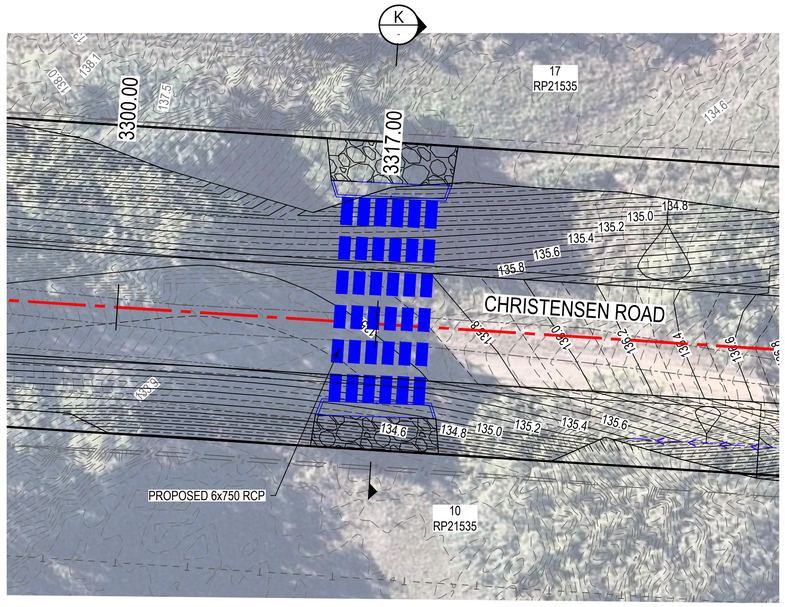
FILENAME: N:\Q\qe workspace ltd\e\sub025 - documents\sub025d16 (rfq22923) mt walker quarry access rd\03 civil\01 DA\Rev A\A2 dwgs\C343 CULVERT SECTION.dwg
PLOTTED: 27 Mar 2025



KEY PLAN
N.T.S.

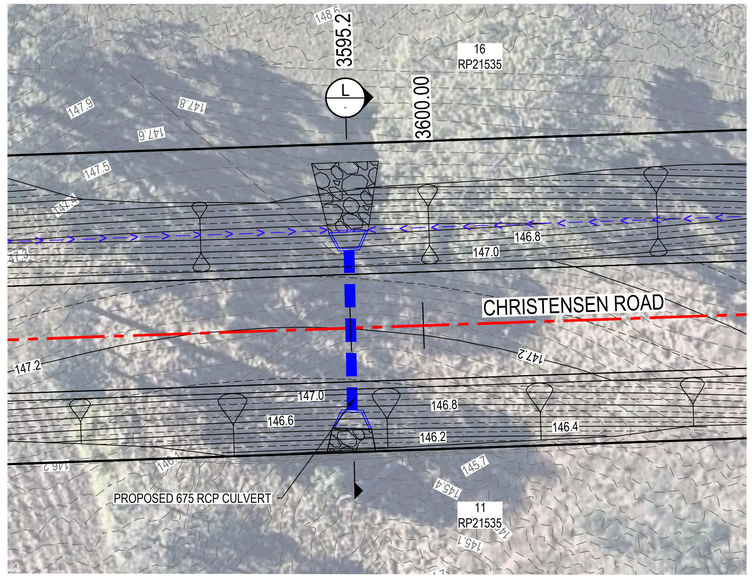
LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- -90.00 - EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR
- EXISTING FENCE
- EXISTING TELSTRA



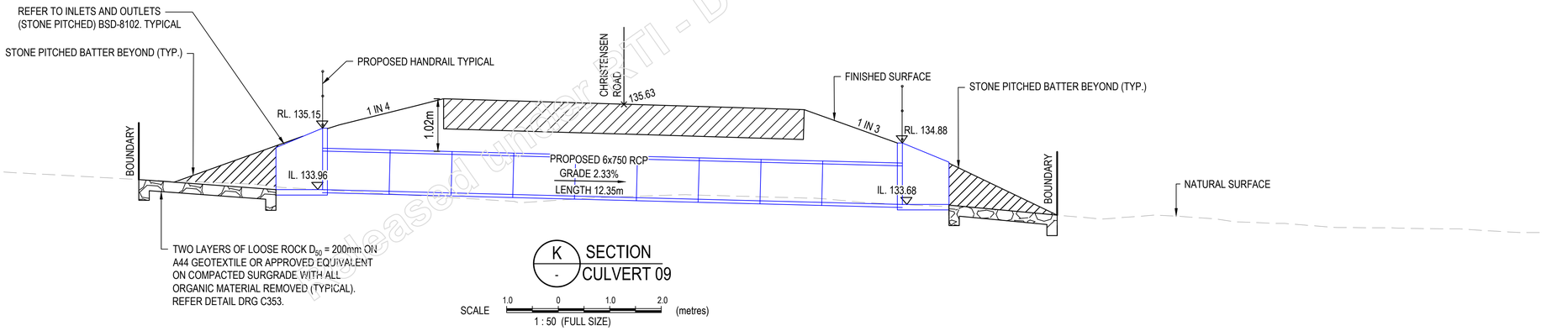
CULVERT 9 DETAIL PLAN
REPLACEMENT LOW IMPACT (GREEN) WATERWAY BARRIER

SCALE 1 : 200 (FULL SIZE) (metres)



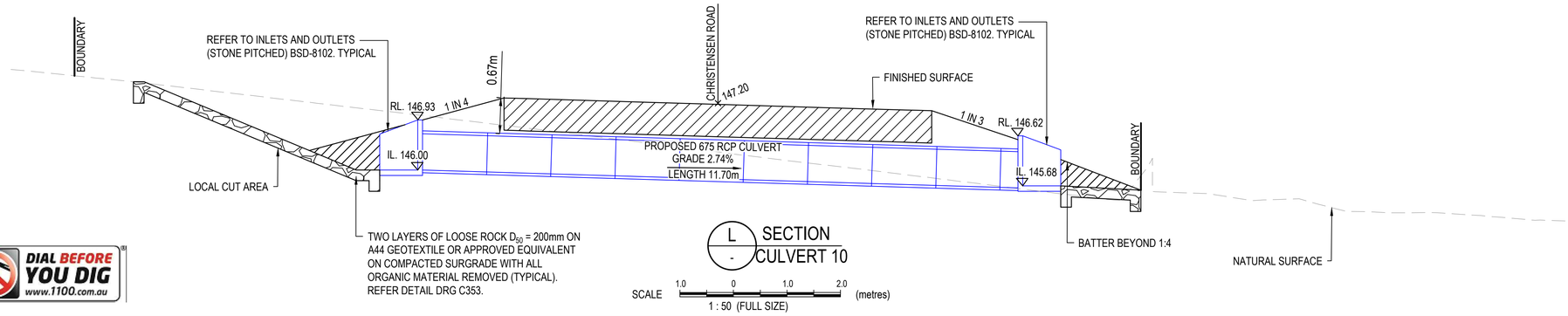
CULVERT 10 DETAIL PLAN

SCALE 1 : 200 (FULL SIZE) (metres)



K - SECTION CULVERT 09

SCALE 1 : 50 (FULL SIZE) (metres)



L - SECTION CULVERT 10

SCALE 1 : 50 (FULL SIZE) (metres)

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
A: N/R
M: N/R
E: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND PLAN SHEET 5 OF 12

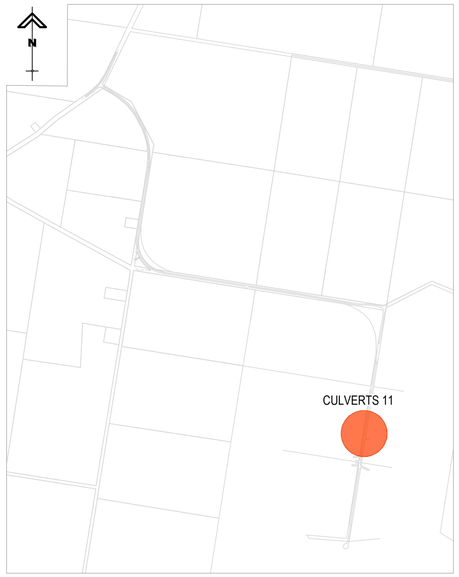
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C344	F

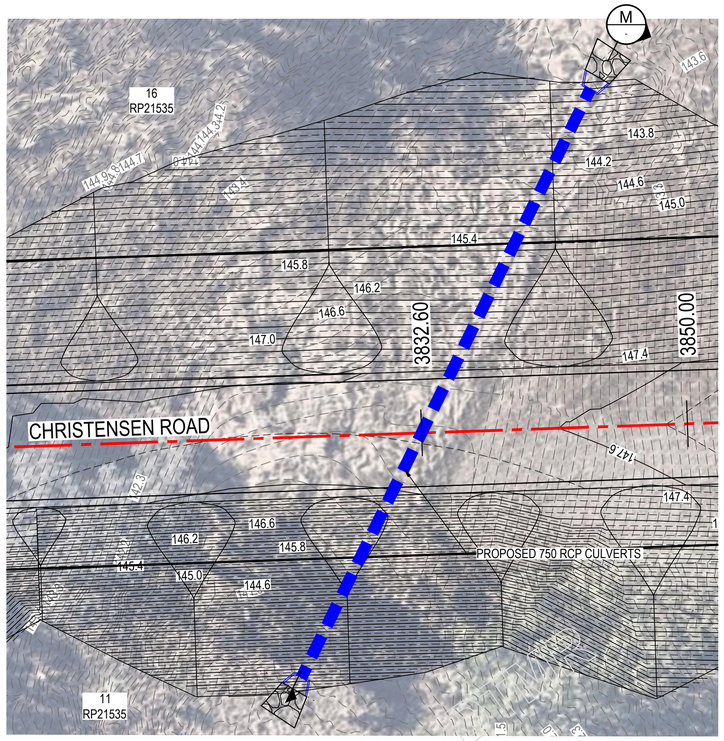
FILENAME: N:\GC\qc_vantage_ltd_ca\ca025 - documents\ca025034_mtwalker_quarry_access_rd\03_data\rev_a\02_acad\c344_CULVERT_SECTIONS.dwg
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.

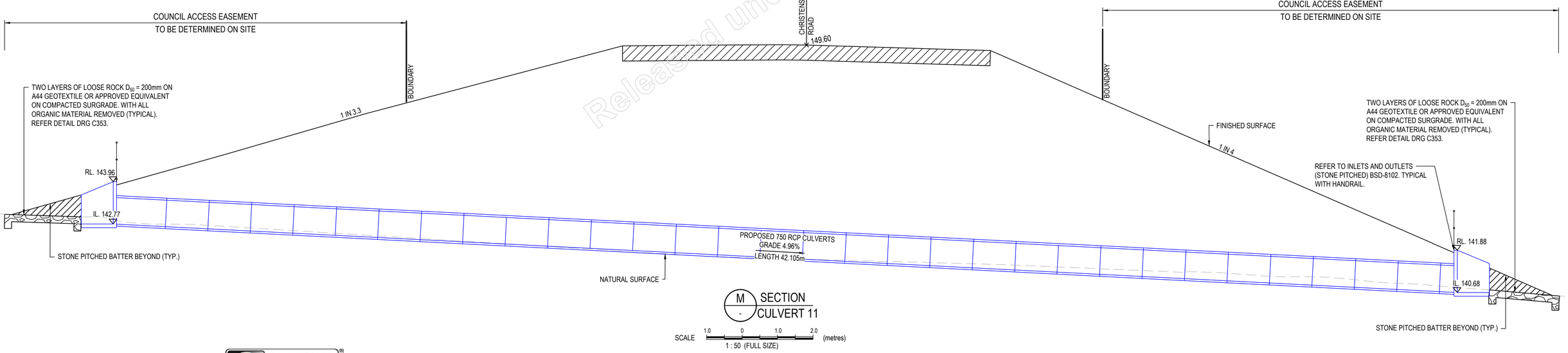
LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR



CULVERT 11 DETAIL PLAN
NEW LOW IMPACT (GREEN) WATERWAY BARRIER

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



M - SECTION CULVERT 11

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

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FILENAME: N:\GC\jet cartons ltd ca\ca025 - documents\ca025034 info\22023 mt walker quarry access rd\33. civil\3D_DA\Rev A\02. dwg\C345 CULVERT SECTION.dwg
PLOTTED: 21 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
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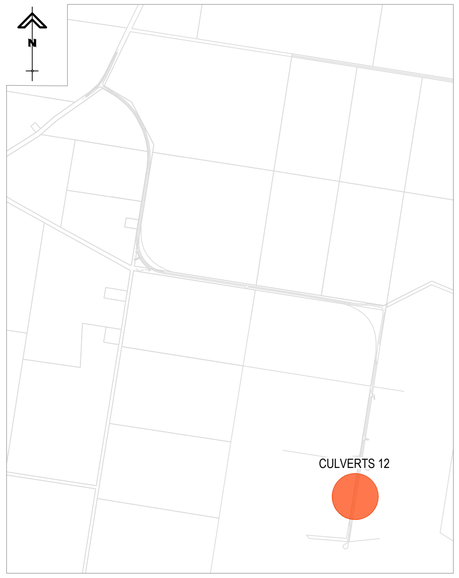
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 6 OF 12

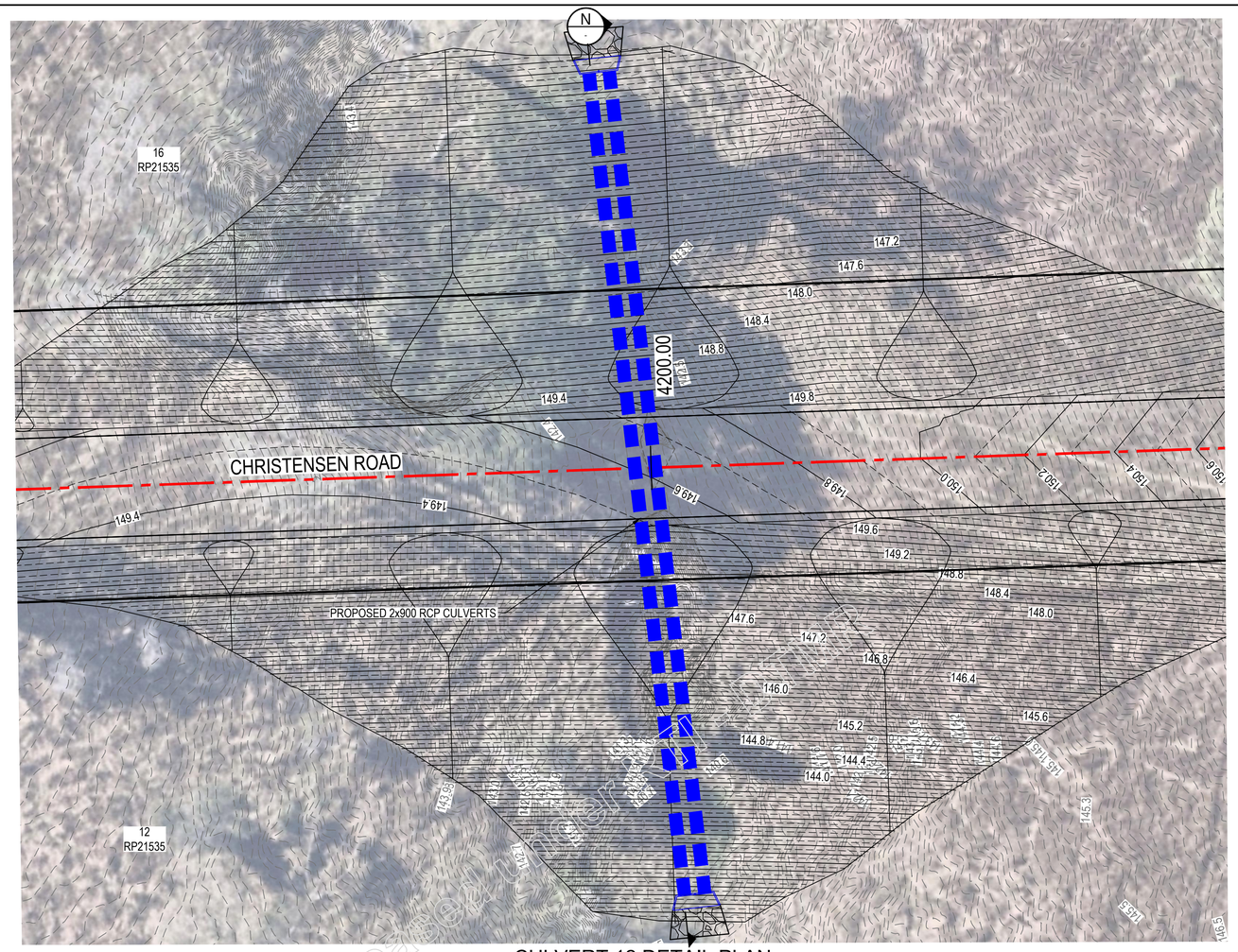
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C345	VERSION: F

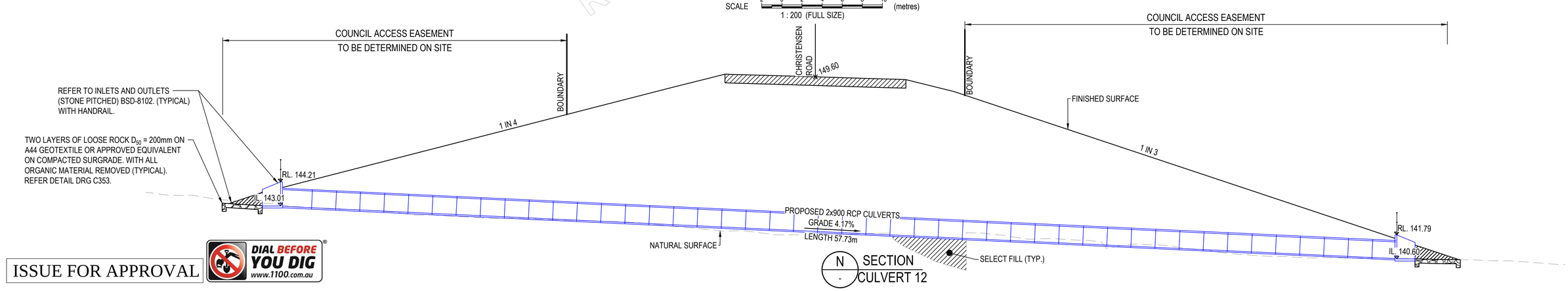


KEY PLAN
N.T.S.



CULVERT 12 DETAIL PLAN
REPLACEMENT LOW IMPACT (GREEN) WATERWAY BARRIER

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



N - SECTION CULVERT 12

LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- 90.00 EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN : 671 139 843
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E N/R
engel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND PLAN SHEET 7 OF 12

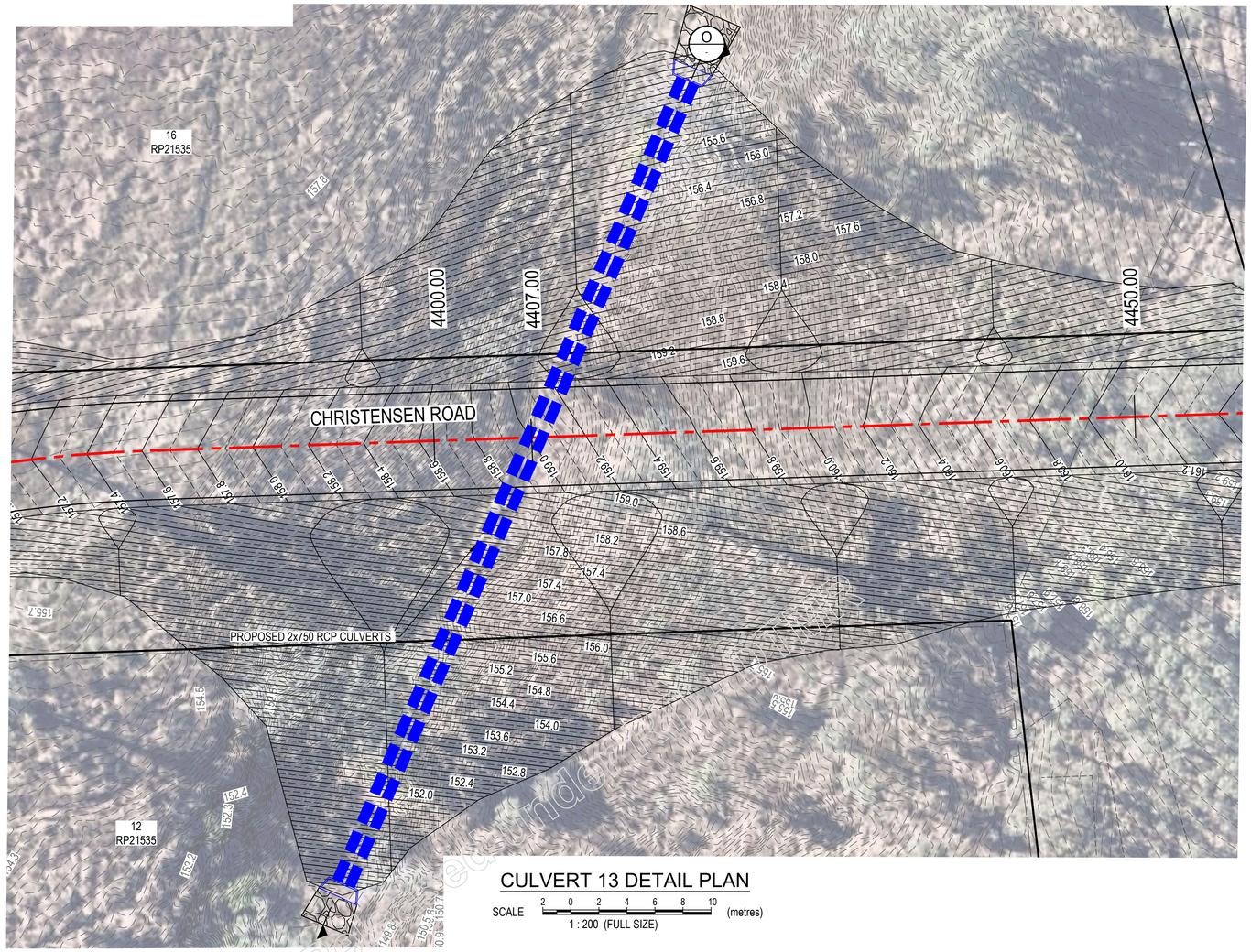
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C346 / VERSION: F

PLOTTED: 27 Mar 2025
FILENAME: N:\Q\Qgc vietnam ltd (a\ua025 - documents\ua025604 (ref#22923) mt walker quarry access rd\03 - civil\01 DA\Rev A\02 dwg\C346 CULVERT SECTIONS.dwg

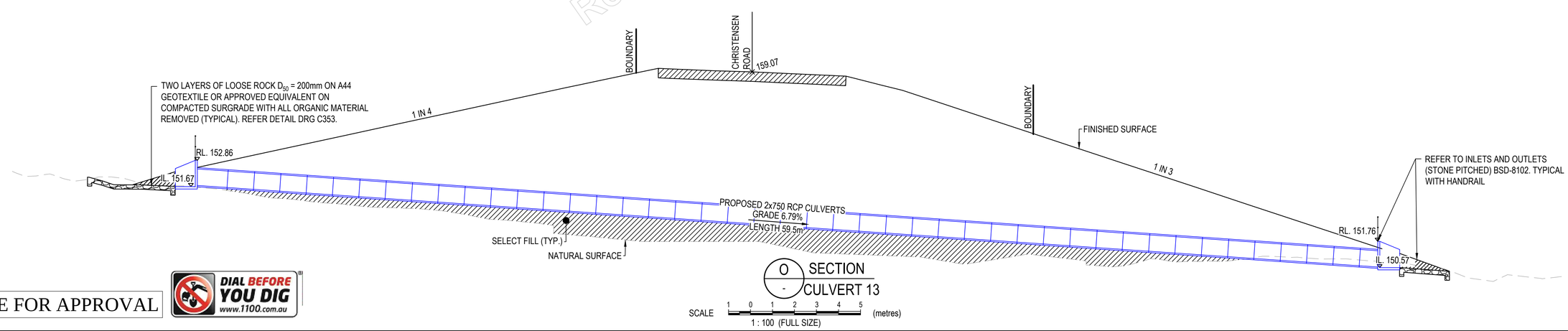
KEY PLAN
N.T.S.

LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- 90.00 EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR



CULVERT 13 DETAIL PLAN
SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)



O - SECTION CULVERT 13
SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

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ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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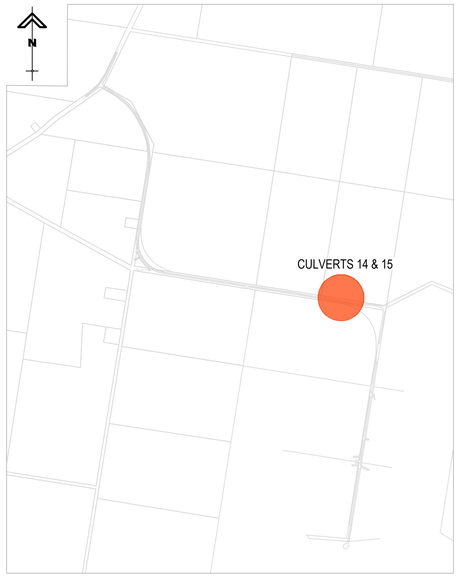
ACN:.671.139.843.
M: N/R
E: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

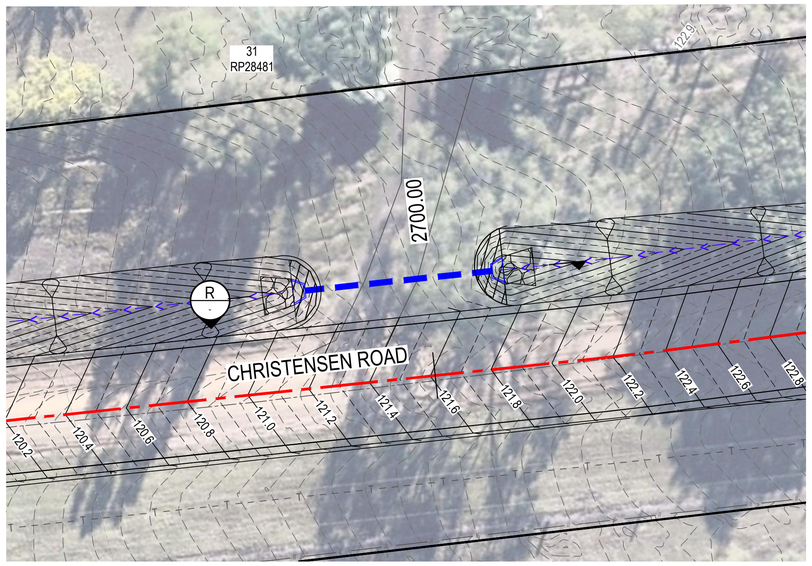
DRAWING TITLE :
CULVERT SECTIONS AND PLAN SHEET 8 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C347 / VERSION: F

FILENAME: N:\Qld_Wetmun_Ltd_c\Job\025 - documents\Job\025dtn_int\210173P an walker quarry access rd\53_civil\31_DA\Ver A\32a_acad\C3x4 CULVERT SECTION.dwg
PLOTTED: 21 Mar 2025

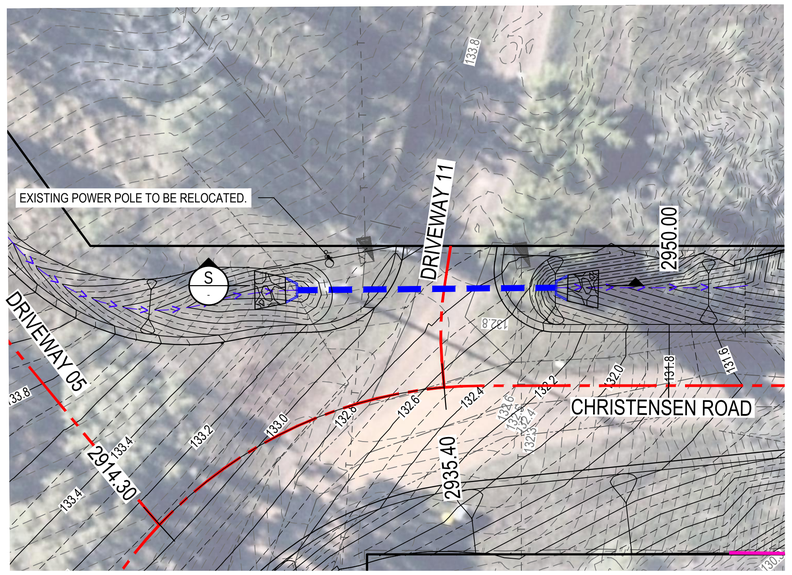


KEY PLAN
N.T.S.



CULVERT 14 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)

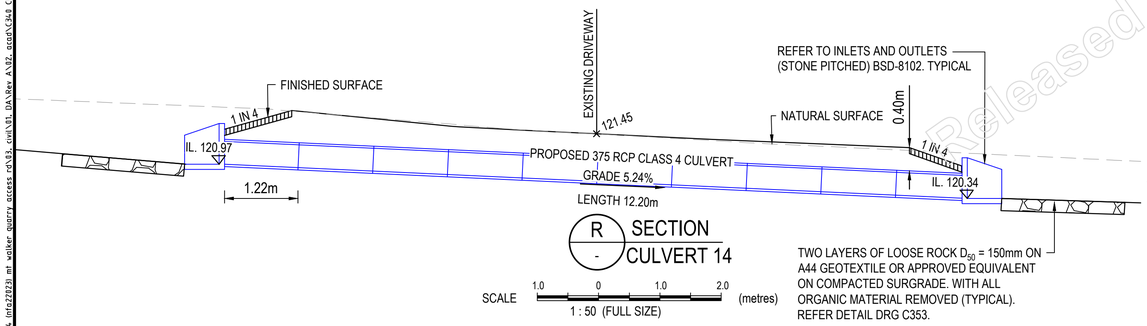


CULVERT 20 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)

LEGEND

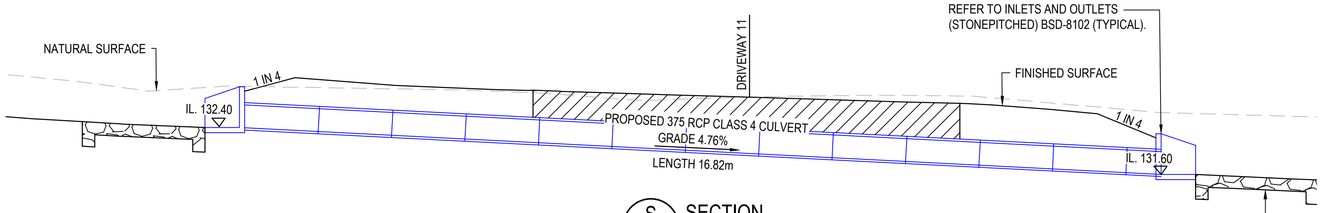
- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- EXISTING CONTOUR (-90.00-)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- PROPOSED TELSTRA (T)



R - SECTION CULVERT 14

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

TWO LAYERS OF LOOSE ROCK D_{50} = 150mm ON A44 GEOTEXTILE OR APPROVED EQUIVALENT ON COMPACTED SURGRADE. WITH ALL ORGANIC MATERIAL REMOVED (TYPICAL). REFER DETAIL DRG C353.



S - SECTION CULVERT 20

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

TWO LAYERS OF LOOSE ROCK D_{50} = 150mm ON A44 GEOTEXTILE OR APPROVED EQUIVALENT ON COMPACTED SURGRADE. WITH ALL ORGANIC MATERIAL REMOVED (TYPICAL). REFER DETAIL DRG C353.

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ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 9 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C348	VERSION: F

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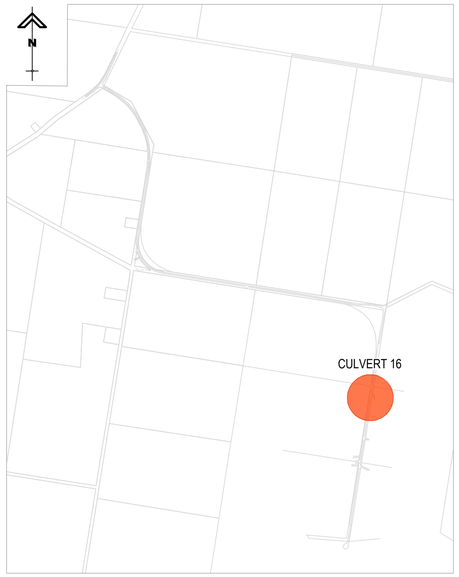
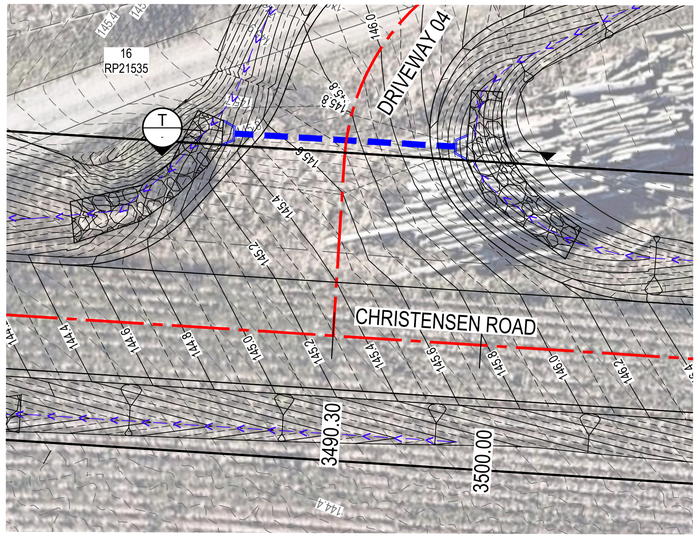
FILENAME: N:\Q\Qcad_workspace_ltd_ds\wsp025 - documents\wsp025dfs_(ntd22923).mt walker quarry access rd\03_civil\01_DA\Rev A\02_acad\C348 CULVERT SECTION.dwg
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.



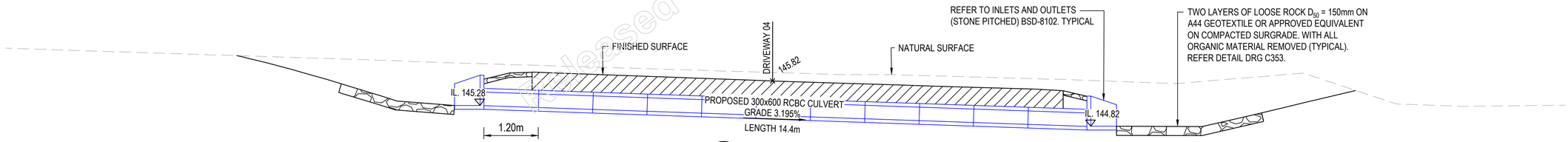
N

CULVERT 16 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)

LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- -90.00- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR



T
-
SECTION
CULVERT 16

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 10 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C349	VERSION: F

FILNAME: N:\Q\qc vietnam ltd\ca\ca025 - documents\ca025016 (rfq22923) mt walker quarry access rd\03_civil\01_DA\Rev A\02_acad\C346 CULVERT SECTION.dwg
PLOTTED: 21 Mar 2025

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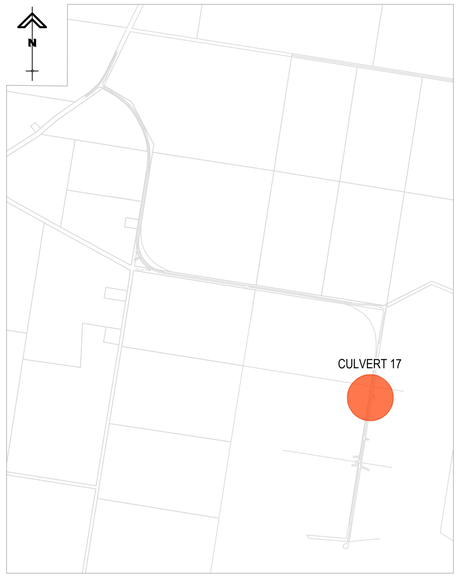
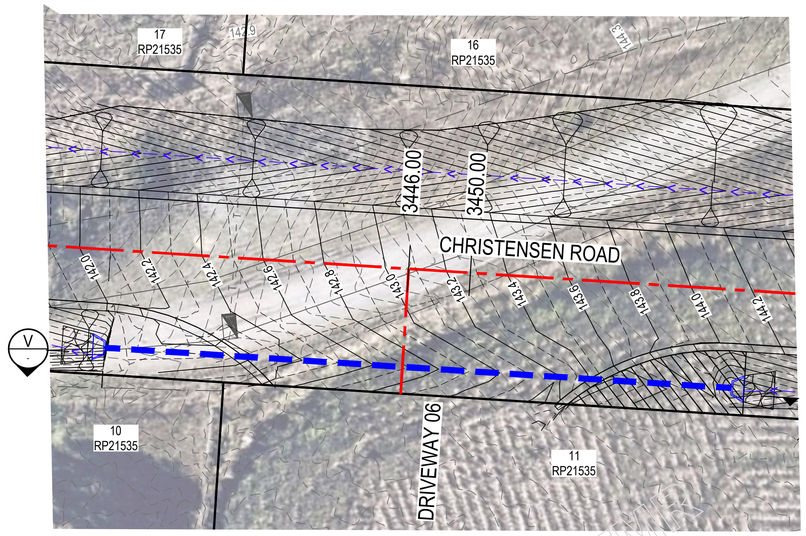


KEY PLAN
N.T.S.

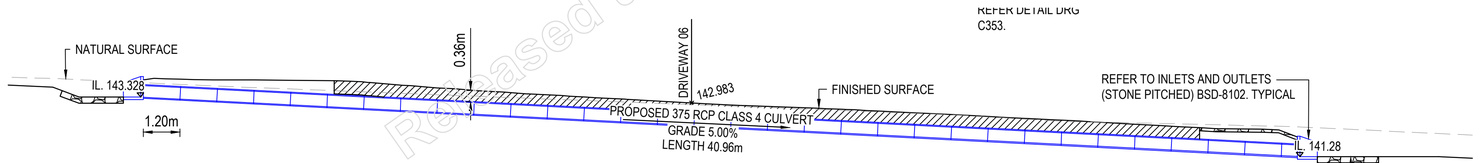


CULVERT 17 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)

LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- -90.00- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR



V / - SECTION CULVERT 17

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 11 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C350	VERSION: F

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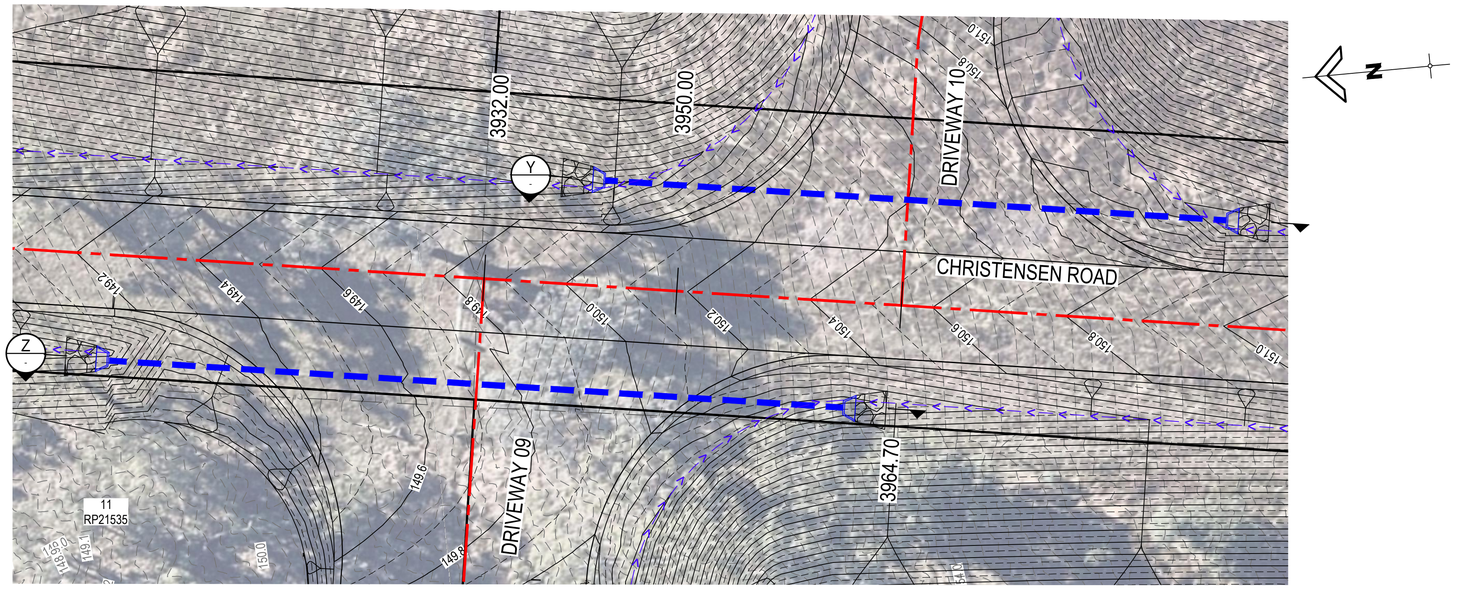
FILENAME: N:\Qld_vicnom_ltd_ds\job\25 - documents\sub25301 (nfe22923).mt walker quarry access rd\03_civil\01_DA\Rev A\02. dxa\C346 CULVERT SECTION.dwg
PLOTTED: 21 Mar 2025

KEY PLAN
N.T.S.

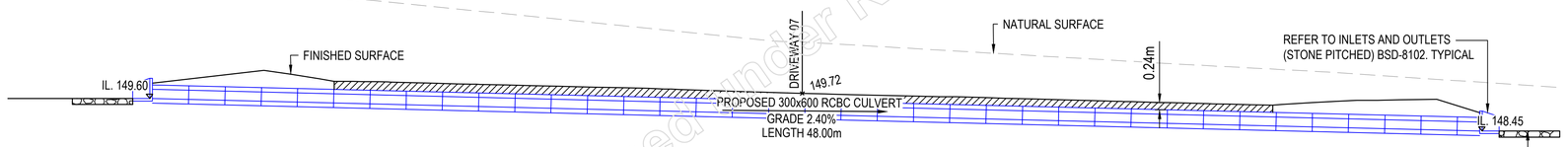


CULVERT 18 AND 19 DETAIL PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 (FULL SIZE)

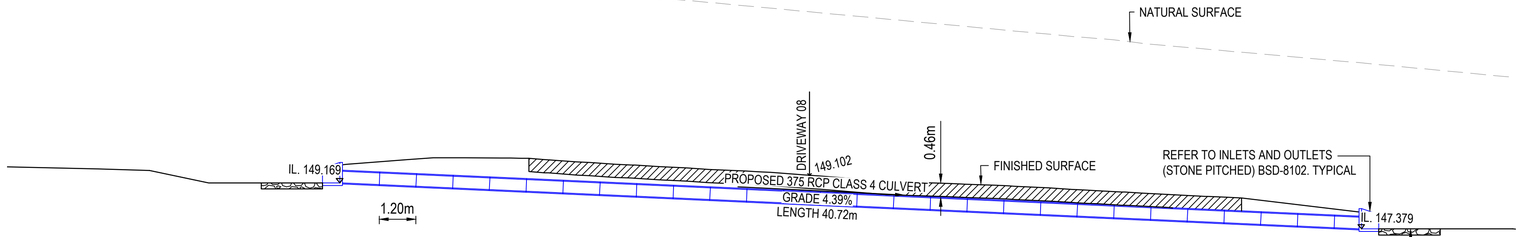
LEGEND

- PROPOSED ROAD CENTRELINE
- PROPOSED CULVERT
- PROPOSED DRAIN
- 90.00 EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR



Z - SECTION CULVERT 18

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)



Y - SECTION CULVERT 19

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 (FULL SIZE)

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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SOUTHPORT PARK QLD 4215
AC N/R
M
E N/R
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CULVERT SECTIONS AND
PLAN SHEET 12 OF 12

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C351	VERSION: F

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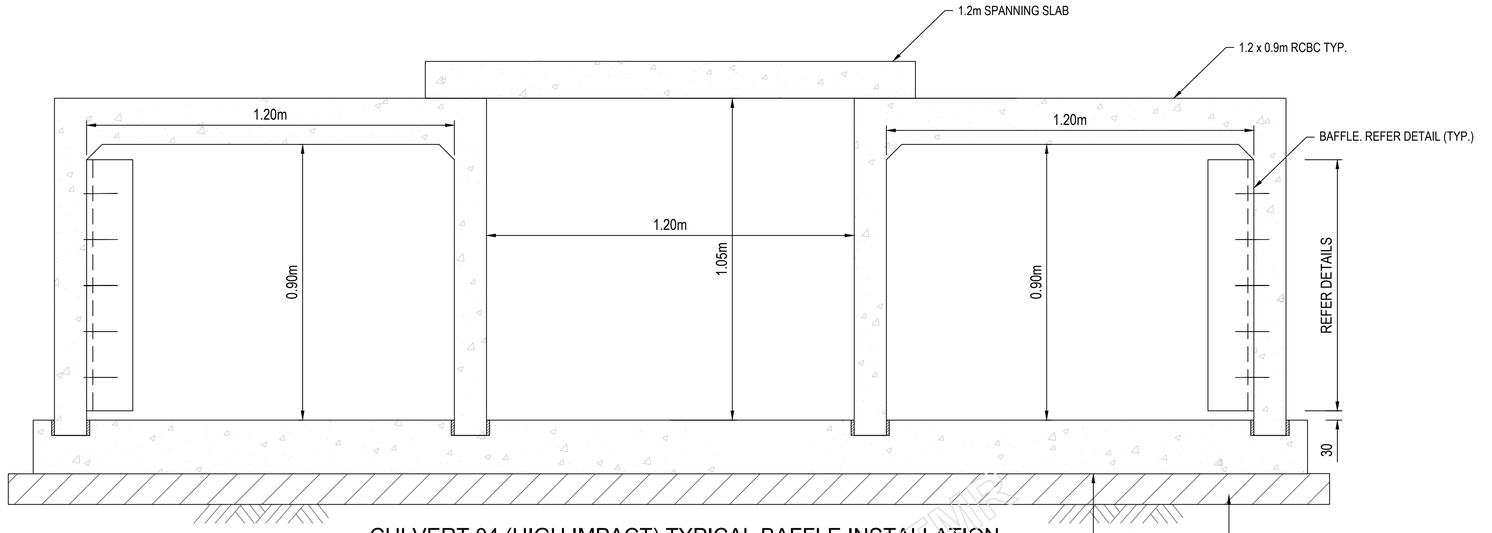
FILENAME: N:\Civil\mt walker ltd co\e0025 - documents\e0025014 info\22323 mt walker quarry access rd\3a. civil\01. DA\Rev A\A2. acad\C3xx CULVERT SECTIONS.dwg
PLOTTED: 21 Mar 2025

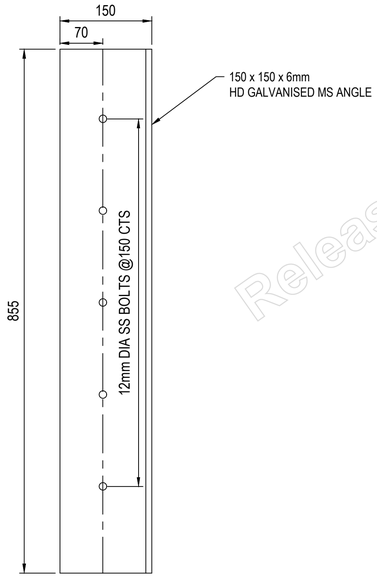


CULVERT 04 (HIGH IMPACT) TYPICAL BAFFLE INSTALLATION

REFER DRG C341 FOR BAFFLE SPACING

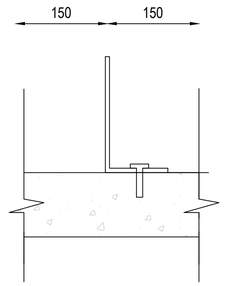
SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)

1 : 10 (FULL SIZE)



BAFFLE ELEVATION DETAIL

N.T.S.



BAFFLE PLAN

N.T.S.

Released under RTI - DTMR

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
A	COUNCIL APPROVAL	NF	20.03.25

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

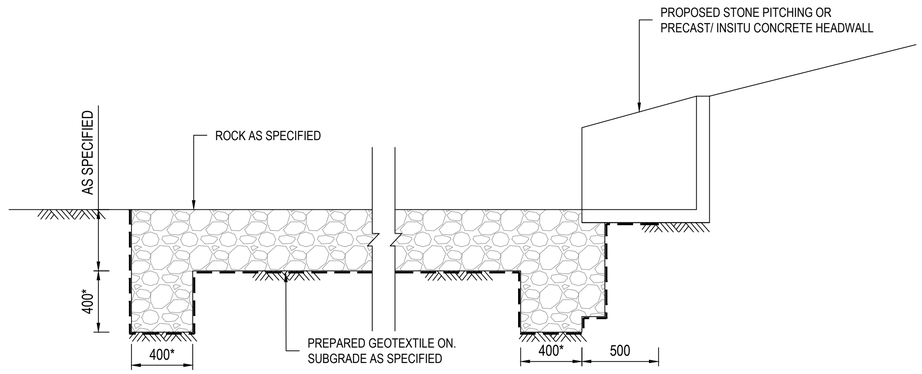
DRAWING TITLE :
HIGH IMPACT (RED)
WATERWAY CULVERT
DETAILS

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C352	VERSION: A

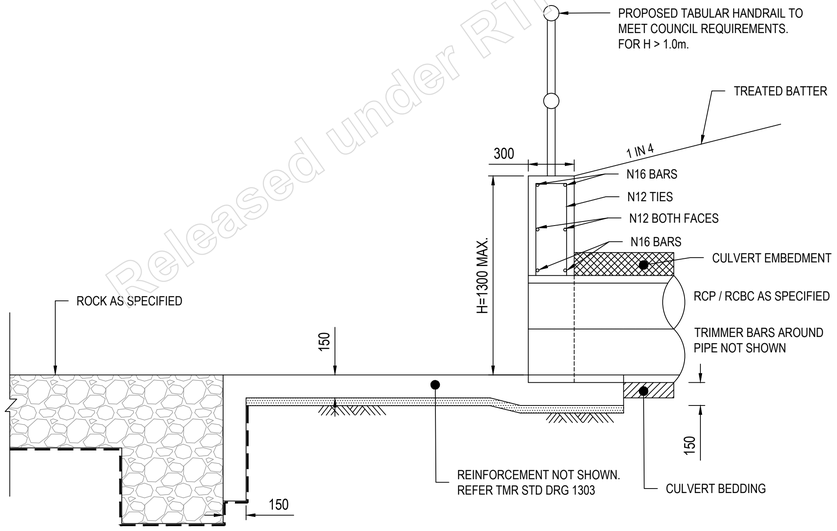
FILENAME: N:\Qld\mt walker qry\cad\c325 - documents\sub\25814 info\22223] mt walker quarry access rd\03_civil\01_DA\dwg\C341 CULVERT SECTION.dwg
PLOTTED: 21 Mar 2025



TYPICAL ROCK INLET OUTLET DETAIL

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)

* REDUCE TO 300 WHERE TWO LAYERS OF D_{50} ROCK USED.



TYPICAL HEADWALL EXTENSION DETAIL (PIPE)

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)

ISSUE FOR APPROVAL

Released under RTI - DTMR

FILENAME N:\01\qt_outputs\10\cad\25 - documents\sub02\04 info220223 mt walker quarry access rd\03_civil\01_DA\New A3D_qcad\C414 CULVERT SECTION.dwg

PLOTTED 21 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
A	COUNCIL APPROVAL	NF	20.03.25

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E N/R
nigelfletcherassociates.com.au

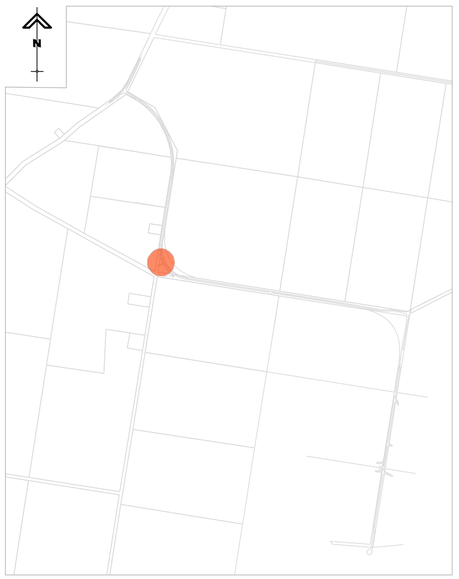
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
STORMWATER DETAILS

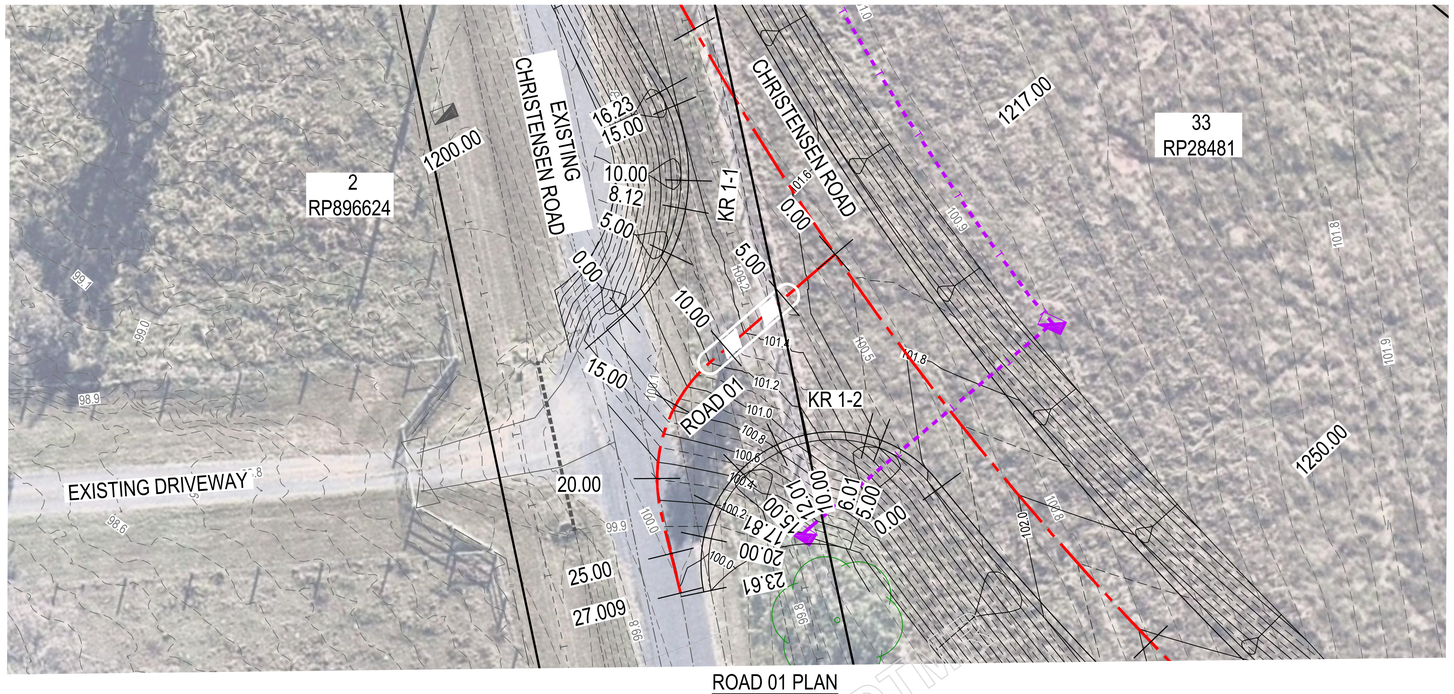
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C353	VERSION: A

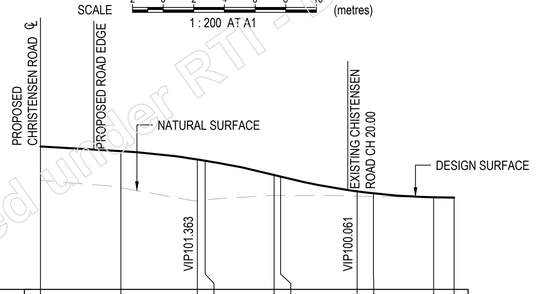


KEY PLAN
N.T.S.



ROAD 01 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1



DATUM R.L. 97.00													
GRADE		-3.00 %				-12.50 %				-1.00 %			
LENGTH		VC 10.0 1.05 K				VC 10.0 0.87 K							
HORIZIONTAL ALIGNMENT ARC LENGTHS				10.98m -10.00m									
CUT/FILL	1.107	1.192	1.347	1.283	0.673	0.620	0.156	0.102	0.009	0.000			
DESIGN CENTRELINE	101.671	101.513	101.245	101.205	100.738	100.686	100.205	100.140	100.011	99.998			
NATURAL SURFACE	100.564	100.321	99.898	99.921	100.065	100.066	100.049	100.037	100.002	99.998			
CHAINAGE	0.000	5.252	10.252	10.753	15.252	15.672	20.672	21.730	25.672	27.009			

LONGITUDINAL SECTION ROAD 01

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

LEGEND

- EXISTING CONTOUR (-90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- EXISTING TREES
- EXISTING FENCE
- PROPOSED TELSTRA
- PROPOSED TELSTRA PIT
- EXISTING TELSTRA
- EXISTING TELSTRA PIT

KR 1-1 TABLE					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	456404.286	6930174.187	100.702	70
MJ	5.00	456408.507	6930176.800	101.138	46d18'00.05"
IP2	8.12	456413.348	6930177.454	101.287	
MJ	10.00	456411.308	6930180.898	101.340	22d25'36.38"
MJ	15.00	456412.212	6930185.778	101.393	358d33'12.71"
IP3	16.23	456412.118	6930187.008	101.386	352d39'41.67"

KR 1-2 TABLE					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	456419.595	6930156.337	101.834	344d47'37.42"
MJ	5.00	456417.006	6930160.534	101.612	311d51'54.43"
IP2	6.01	456417.710	6930163.271	101.534	
MJ	10.00	456412.551	6930162.649	101.113	278d56'11.44"
CC	12.01	456410.545	6930162.730	100.835	265d40'57.93"
MJ	15.00	456407.662	6930162.003	100.455	246d00'28.45"
IP3	17.81	456403.724	6930162.215	100.196	
MJ	20.00	456403.910	6930158.803	100.059	213d04'45.45"
IP4	23.61	456402.615	6930155.466	99.958	189d19'58.38"

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NOTES:

REFER DRG C401 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN - 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 1 OF 10

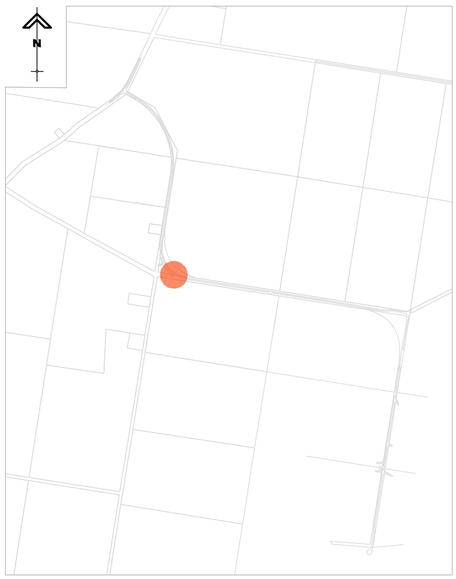
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

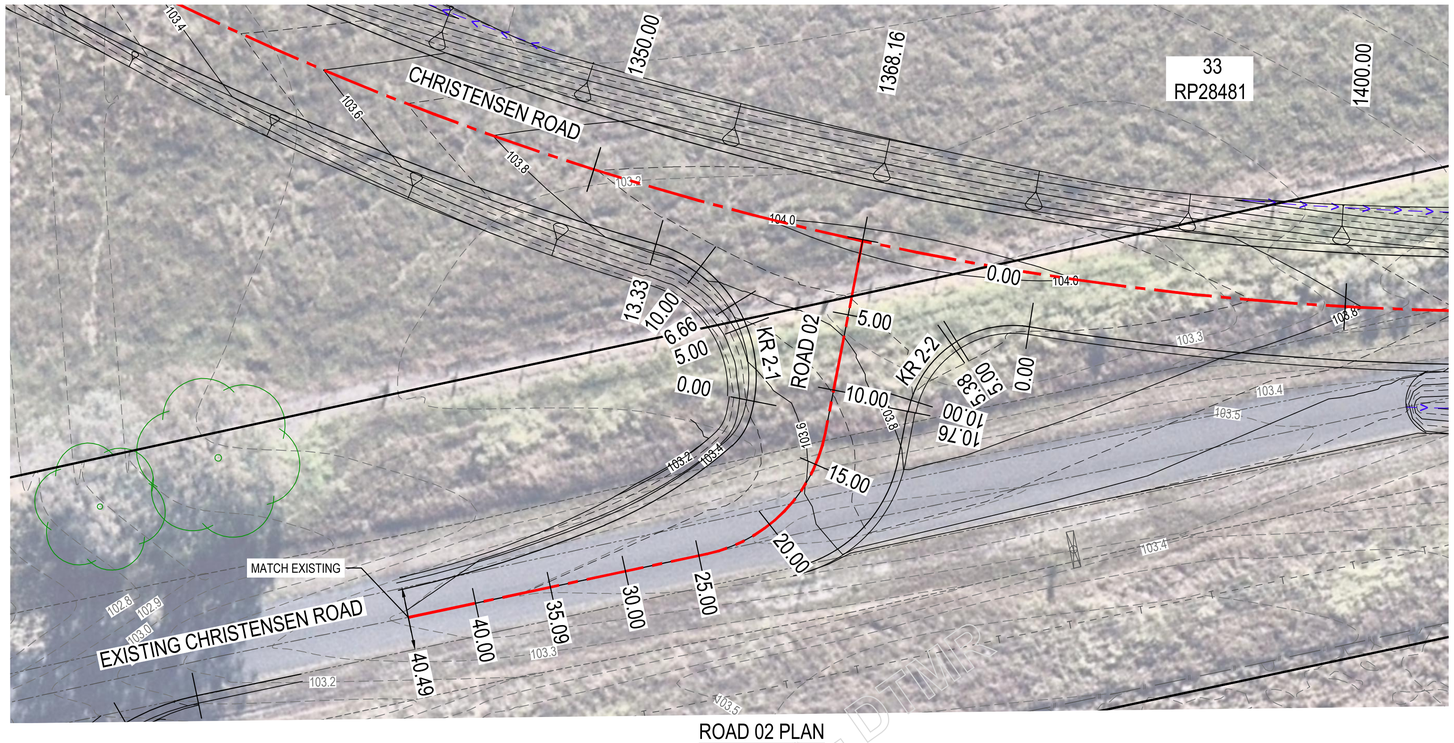
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C360	VERSION: F

PLOTTED: 31 Mar 2025
FILENAME: N:\Q\qce_vietnam_ltd\ca\ca025 - documents\ca025454 (nfq22923) mt walker quarry access rd\03. civil\01. DA\Rev A\02. dwg\C360 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS.dwg

Released under RTI - DTMR

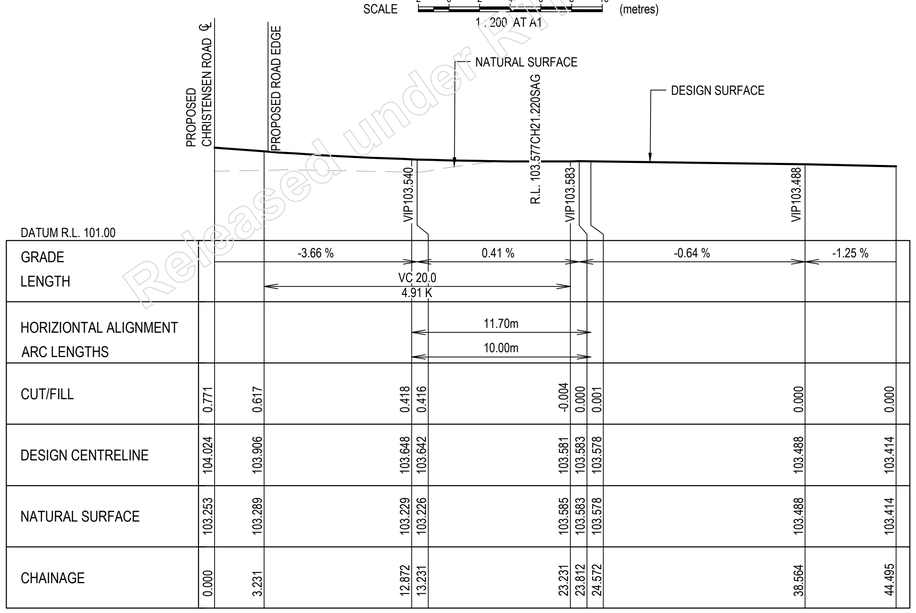


KEY PLAN
N.T.S.



ROAD 02 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1



LONGITUDINAL SECTION ROAD 02

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

LEGEND

- EXISTING CONTOUR (-90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- EXISTING TREES
- EXISTING FENCE
- PROPOSED DRAIN
- EXISTING TELSTRA

KR 2-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	456492.849	6930045.303	103.554	31d57'08.71"
MJ	5.00	456494.212	6930050.046	103.686	0d07'17.16"
IP2	6.66	456497.202	6930052.281	103.746	
MJ	10.00	456492.869	6930054.796	103.834	328d17'25.60"
IP3	13.33	456490.642	6930057.243	103.842	307d06'23.43"

KR 2-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	456511.445	6930043.436	103.911	300d02'15.53"
MJ	5.00	456506.619	6930044.251	103.928	259d06'43.52"
IP2	5.38	456505.584	6930046.825	103.929	
MJ	10.00	456502.439	6930041.704	103.894	218d11'11.52"
IP3	10.76	456502.002	6930041.081	103.879	211d57'08.71"

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NOTES:

REFER DRG C402 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 2 OF 10

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C361	VERSION: F

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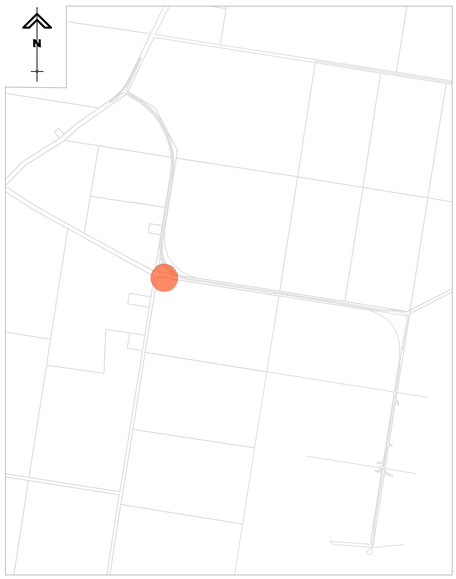
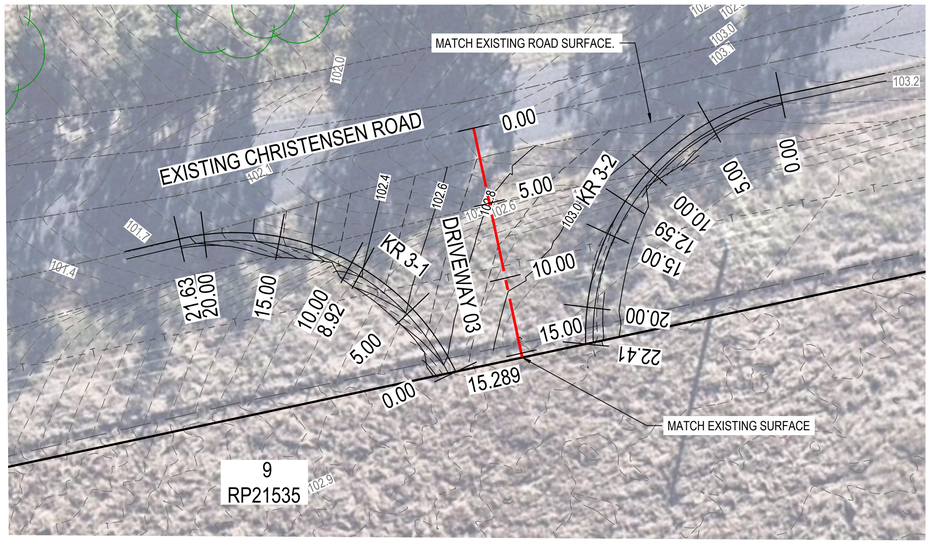
FILENAME: N:\Q\qce ventures ltd\c\c\c025 - documents\c\c025d54 (nfq22923) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C356 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS.dwg
PLOTTED: 27 Mar 2025



KEY PLAN
N.T.S.



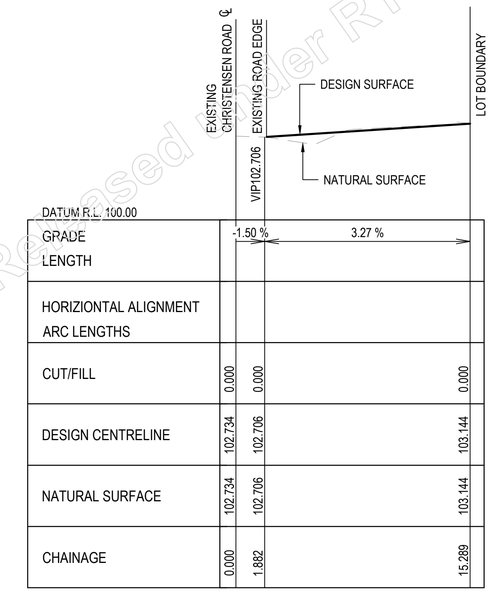
DRIVEWAY 03 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

LEGEND

- -90.00 EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR
- EXISTING FENCE
- EXISTING TELSTRA

KR 3-1 TABLE					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
MJ	0.000	456425.777	6930031.096	102.848	355d22'24.32"
MJ	5.000	456424.608	6930035.936	102.620	337d28'06.57"
IP 2	8.916	456428.178	6930043.409	102.414	
MJ	10.000	456422.007	6930040.183	102.354	319d33'48.82"
MJ	15.000	456418.227	6930043.424	102.089	301d39'31.07"
MJ	20.000	456413.633	6930045.346	101.843	283d45'13.32"
IP 3	21.631	456412.031	6930045.653	101.767	277d54'41.28"



LONGITUDINAL SECTION DRIVEWAY 03

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

KR 3-2 TABLE					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	456452.044	6930040.361	103.129	279d09'29.40"
MJ	5.00	456447.064	6930040.379	103.061	261d15'11.65"
MJ	10.00	456442.320	6930038.865	103.059	243d20'53.90"
IP2	12.59	456436.199	6930042.916	103.084	
MJ	15.00	456438.271	6930035.966	103.105	225d26'36.15"
MJ	20.00	456435.310	6930031.963	103.081	207d32'18.40"
MJ	22.41	456434.361	6930029.751	103.037	198d54'37.52"

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NOTES:
REFER DRG C403 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
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ACN - 671 139 843
M: N/R
E: N/R nigel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 3 OF 10

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C362	VERSION: F

PLOTTED: 27 Mar 2025
FILENAME: N:\Q\qcr_vietnam_ltd\ca\ca025 - documents\ca025454 (rfq22923) mt walker quarry access rd\03 civil\01 DA\Rev A\02 dwg\C362 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS

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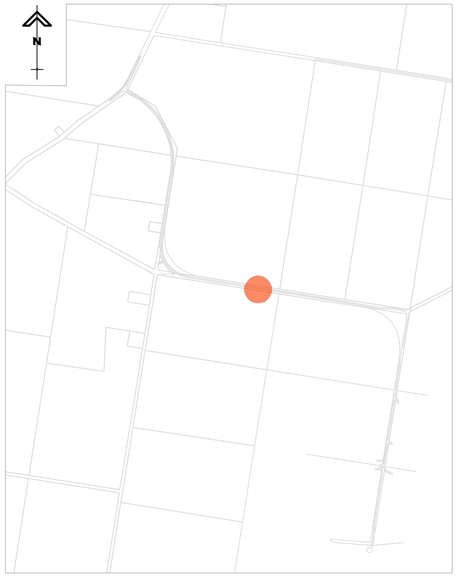
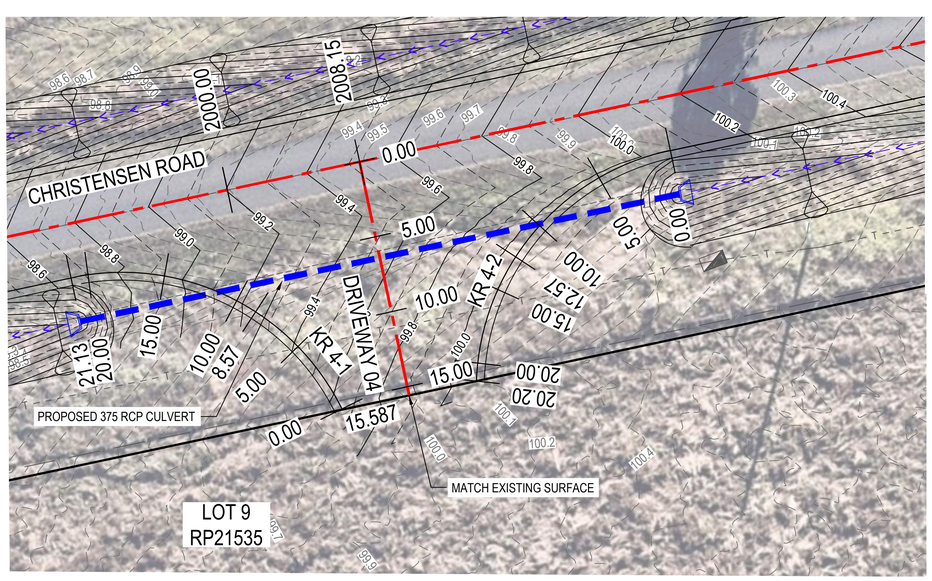


KEY PLAN
N.T.S.

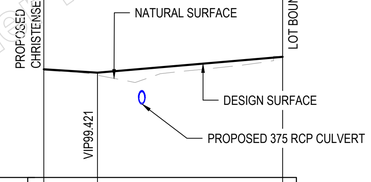


DRIVEWAY 04 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

LEGEND

- EXISTING CONTOUR (-90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- PROPOSED DRAIN
- PROPOSED STORMWATER CULVERT & STONE PITCH HEADWALL



DATUM R.L. 96.00

GRADE		-3.00 %	4.28 %
LENGTH			
HORIZIONTAL ALIGNMENT			
ARC LENGTHS			
CUT/FILL	0.035	0.083	0.000
DESIGN CENTRELINE	99.526	99.421	99.937
NATURAL SURFACE	99.490	99.337	99.937
CHAINAGE	0.000	3.500	15.587

LONGITUDINAL SECTION DRIVEWAY 04

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

KR 4-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
MJ	0.000	457123.929	6929920.820	99.651	354d39'26.01"
MJ	5.000	457122.700	6929925.645	99.416	336d45'08.26"
IP 2	8.567	457126.301	6929932.637	99.247	
MJ	10.000	457120.046	6929929.859	99.180	318d50'50.51"
MJ	15.000	457116.226	6929933.053	98.944	300d56'32.76"
MJ	20.000	457111.608	6929934.917	98.709	283d02'15.01"
IP 3	21.134	457110.495	6929935.134	98.655	278d58'36.16"

KR 4-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457150.005	6929928.893	100.057	278d58'36.15"
MJ	5.00	457145.026	6929928.895	100.06	261d04'18.40"
MJ	10.00	457140.287	6929927.366	100.064	243d10'00.65"
IP2	12.57	457134.203	6929931.389	100.066	
MJ	15.00	457136.247	6929924.454	100.068	225d15'42.90"
MJ	20.00	457133.298	6929920.441	100.072	207d21'25.15"
MJ	21.20	457132.776	6929919.716	100.075	189d27'07.39"

ISSUE FOR APPROVAL

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NOTES:

REFER DRG C404 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN: 671 139 843
M: N/R
E: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 4 OF 10

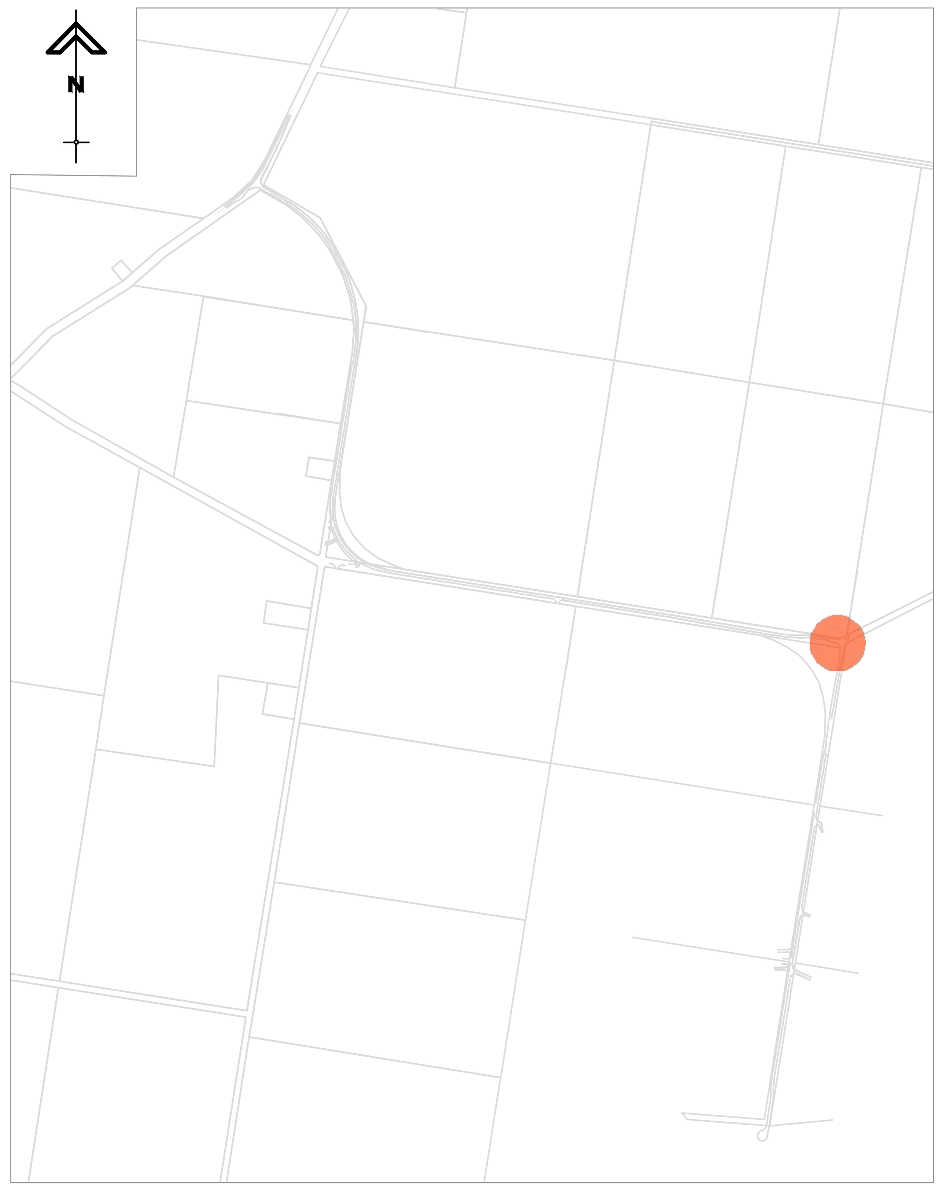
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C363 / VERSION: F

Released under RTI - DTMR

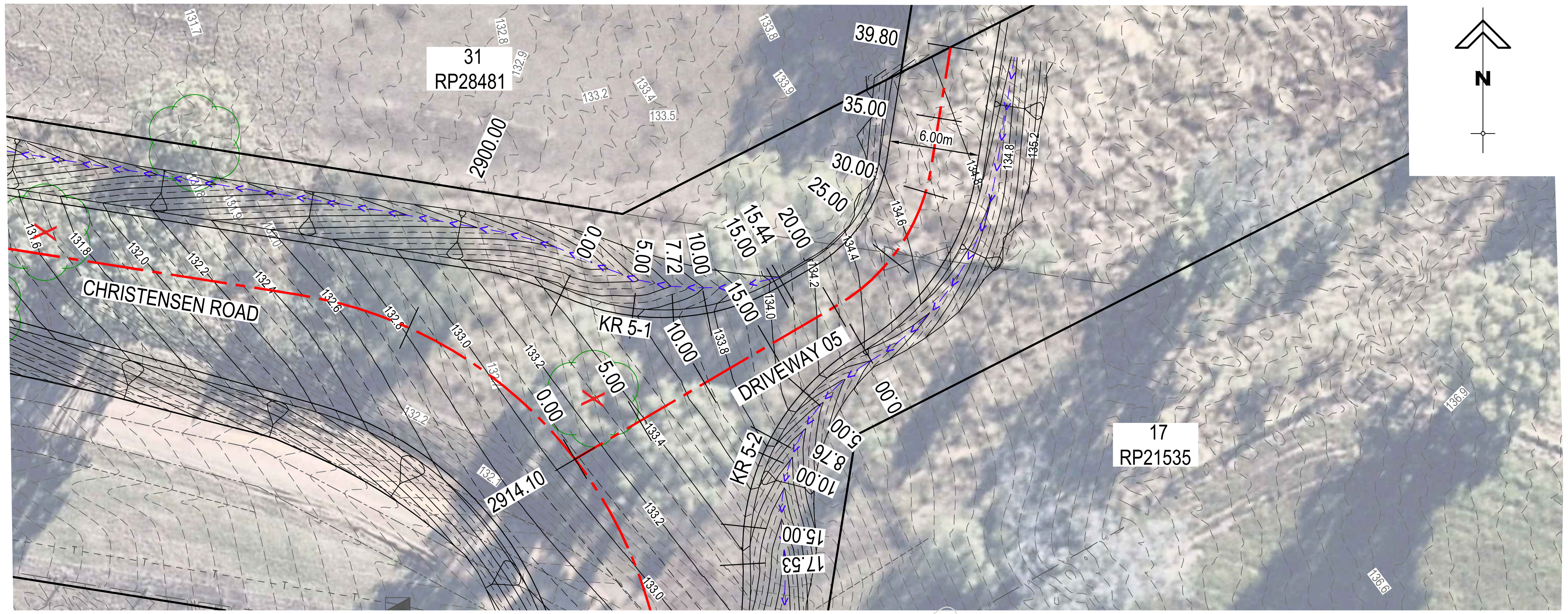
RTI-Release.pdf - Page Number: 98 of 448

FILENAME: N:\Qld_workspace_ltd_cs\cs0725 - documents\cs0725dtn_int221223 mt walker quarry access rd\53_civil\05_DA\dwg\ A1\02a_acad\C363 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS
PLOTTED: 21 Mar 2025

FILENAME: N:\QT\qt vietnam ltd co\sub125 - documents\sub125004 (nfa22023) mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C350 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS.dwg
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.



LEGEND

- -90.00 — EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 — DESIGN MAJOR CONTOUR
- EXISTING FENCE
- OPP — EXISTING POWER POLE
- PROPOSED DRAIN
- X — EXISTING TREES REMOVE
- T — PROPOSED TELSTRA
- PROPOSED TELSTRA PIT

DRIVEWAY 05 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

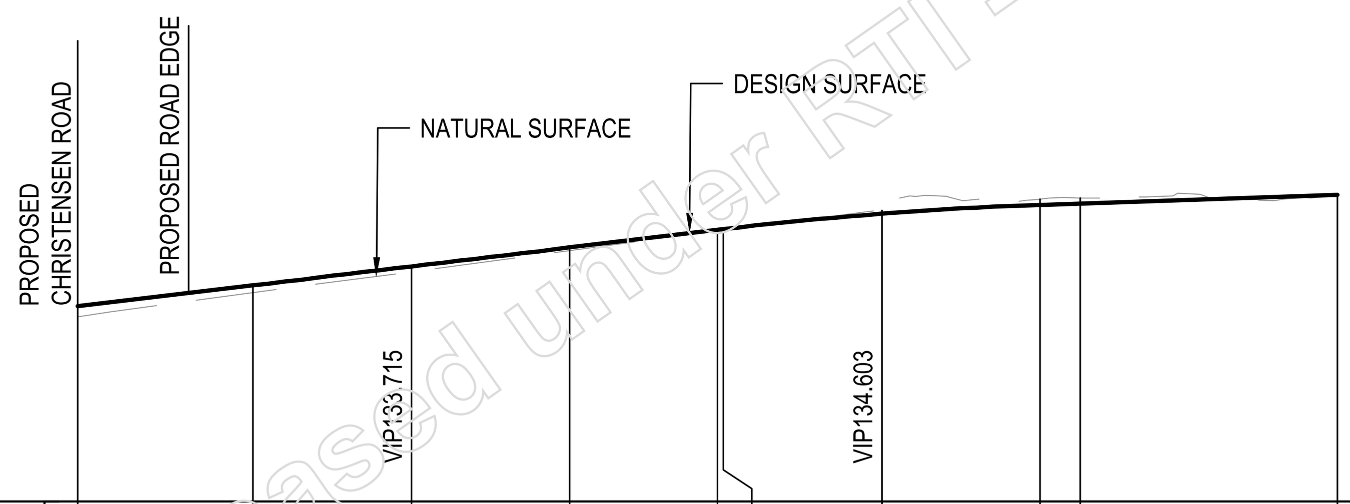
Released under RTI - DTMR

KR 5-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP 1	0.000	458021.033	6929803.483	133.432	114d55'20.37"
	5.000	458025.821	6929802.113	133.589	97d01'02.62"
IP 2	7.721	458028.634	6929799.951	133.686	
	10.000	458030.798	6929802.281	133.779	79d06'44.87"
	15.000	458035.482	6929803.971	134.035	61d12'27.11"
IP 3	15.441	458035.865	6929804.189	134.061	59d37'40.08"

KR 5-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	458041.039	6929800.266	134.388	239d37'40.08"
	5.000	458037.187	6929797.111	134.108	221d43'22.33"
IP 2	8.763	458032.619	6929795.332	133.847	
	10.000	458034.491	6929792.924	133.757	203d49'04.57"
	15.000	458033.214	6929788.111	133.469	185d54'46.82"
IP 3	17.527	458033.153	6929785.587	133.368	176d51'52.53"



DATUM R.L. 130.00

GRADE: 6.00 % | 5.97 % | 1.70 %

LENGTH: VC 10.0 334.5 K | VC 10.0 2.34 K

HORIZIONTAL ALIGNMENT ARC LENGTHS: 11.46m, -13.00m

CHAINAGE	NATURAL SURFACE	DESIGN CENTRELINE	CUT/FILL
0.000	132.917	133.083	0.166
5.537	133.299	133.415	0.116
10.537	133.632	133.715	0.083
15.537	133.966	134.014	0.048
20.212	134.277	134.293	0.016
20.404	134.290	134.305	0.015
25.404	134.604	134.550	-0.055
30.404	134.781	134.688	-0.093
31.670	134.796	134.710	-0.086
39.804	134.848	134.848	0.000

LONGITUDINAL SECTION DRIVEWAY 05

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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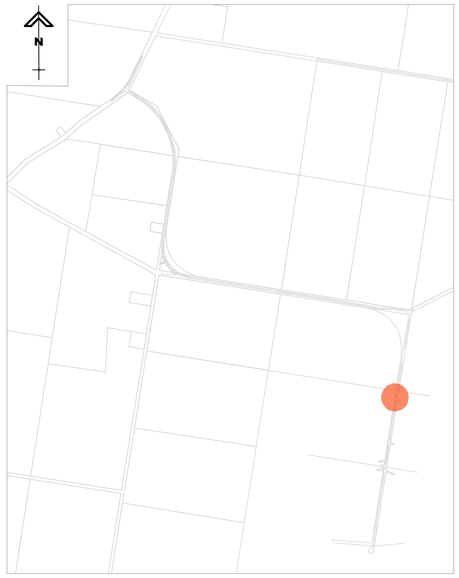
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

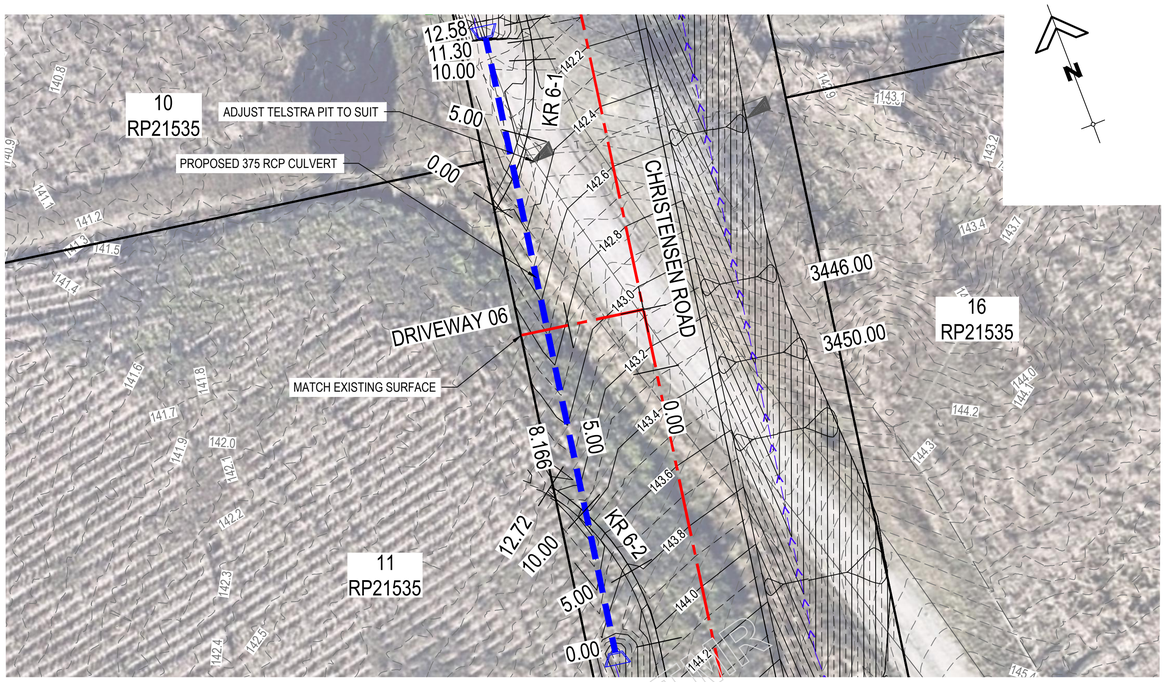
PROJECT:
MT WALKER QUARRY CHRISTENSEN ROAD UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 5 OF 10

DEVEL. APPLIC. No. :
DATE : MAY 2024
PROJECT LEADER : NF
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C364
VERSION: F



KEY PLAN
N.T.S.



DRIVEWAY 06 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

LEGEND

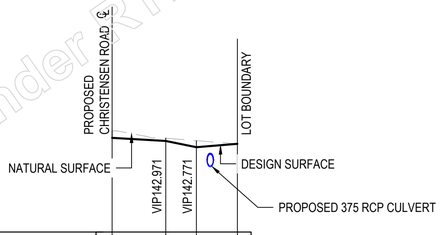
- -90.00 — EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 — DESIGN MAJOR CONTOUR
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- PROPOSED DRAIN
- PROPOSED STORMWATER CULVERT & STONE PITCH HEADWALL

KR 6-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
MJ	0.00	457929.325	6929276.341	142.382	89d58'03.21"
MJ	5.00	457934.243	6929277.119	142.529	72d03'45.46"
MJ	10.00	457938.685	6929279.371	142.530	54d09'27.71"
MJ	11.30	457942.974	6929276.349	142.506	
IP3	12.58	457945.117	6929289.829	142.099	9d02'03.87"

KR 6-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457938.686	6929249.378	144.147	9d02'03.87"
MJ	5.00	457938.693	6929254.358	143.840	351d07'46.12"
MJ	10.00	457937.168	6929259.099	143.421	333d13'28.37"
IP2	12.72	457941.248	6929265.494	143.145	



GRADE		-3.00 %	-10.00 %	4.08 %
LENGTH				
HORIZIONTAL ALIGNMENT ARC LENGTHS				
CUT/FILL	-0.226	-0.089	-0.212	0.000
DESIGN CENTRELINE	143.076	142.971	142.771	142.880
NATURAL SURFACE	143.302	143.060	142.983	142.880
CHAINAGE	0.000	3.500	5.500	8.166

LONGITUDINAL SECTION DRIVEWAY 06

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

NOTES:

REFER DRG C406 FOR SWEPT PATHS.

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 671 139 843
M N/R
E N/R nigel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 6 OF 10

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

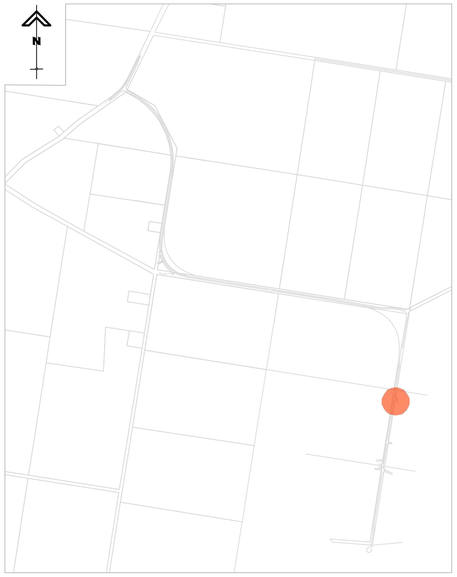
APPR: N/R EHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C365	VERSION: F

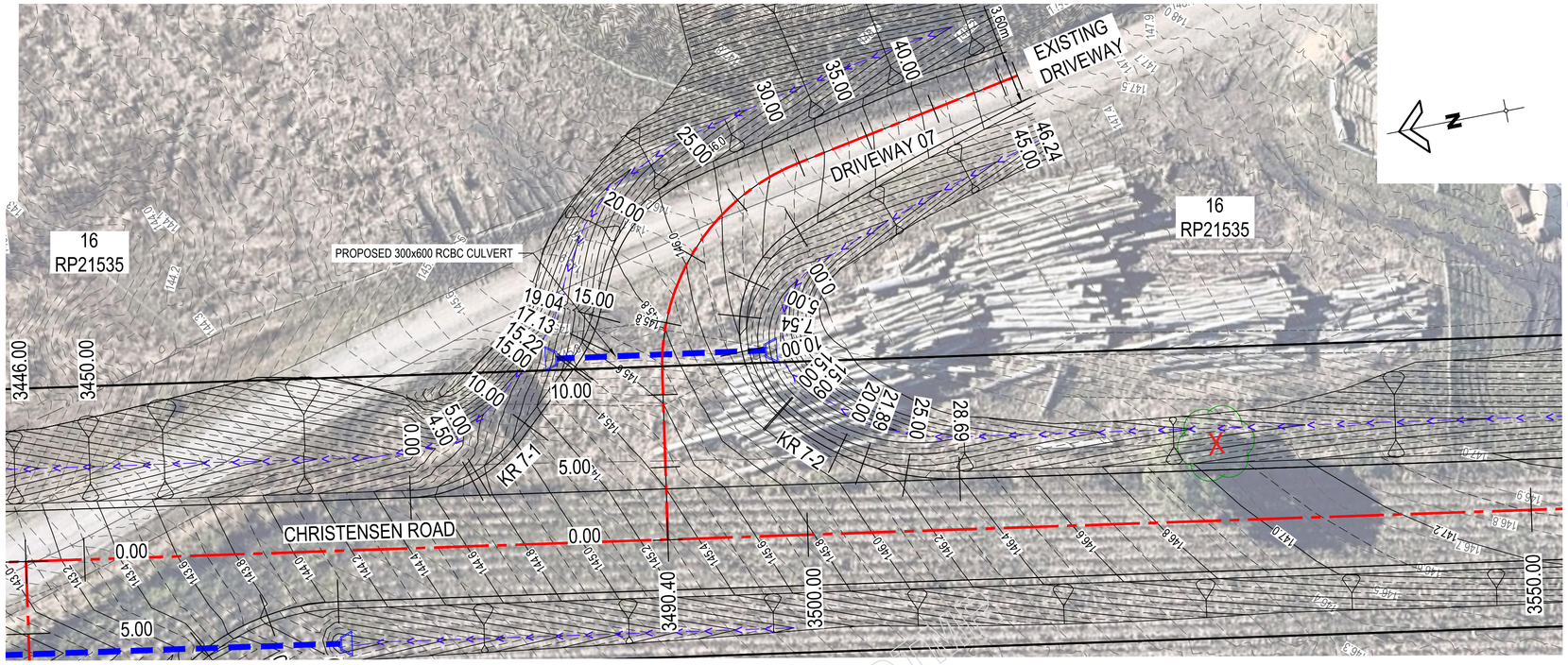
Released under RTI

RTI-Release.pdf - Page Number: 100 of 448

PLOTTED: 27 Mar 2025
FILENAME: N:\Qld\gce ventures ltd t/a\Job\025 - documents\Job\25454 (mtw2223)\3 en\other quarry access rd\03. civil\01. DA\Rev A\02. dwg\C365 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 6 OF 10.dwg



KEY PLAN
N.T.S.



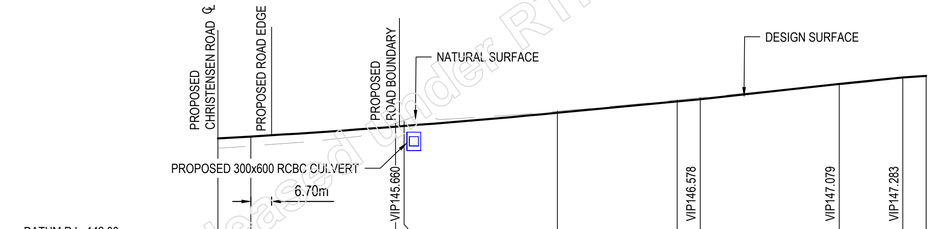
DRIVEWAY 07 PLAN
SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

LEGEND

- EXISTING CONTOUR (-90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- EXISTING TREES REMOVE
- EXISTING FENCE
- PROPOSED DRAIN
- PROPOSED STORMWATER CULVERT & STONE PITCH HEADWALL

KR 7-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457944.778	6929243.116	144.516	189d02'03.87"
IP2	4.50	457944.019	6929238.346	144.784	
MJ	5.00	457945.234	6929238.189	144.819	160d23'11.47"
IP3	9.00	457947.284	6929234.787	145.138	
MJ	10.00	457947.961	6929234.049	145.228	137d28'38.64"
MJ	15.00	457951.340	6929230.364	145.587	137d28'38.64"
TC	15.22	457951.488	6929230.203	145.599	137d28'38.64"
IP4	17.13	457952.796	6929228.776	145.692	
IP5	19.04	457954.542	6929227.941	145.762	115d34'09.25"



DATUM R.L. 142.00																							
GRADE			3.00 %					4.75 %						5.52 %				4.91 %		3.56 %			
LENGTH					VC 20.0																		
					11.42 K																		
HORIZONTAL ALIGNMENT								18.38m															
ARC LENGTHS								15.00m															
CUT/FILL	0.318	0.306		-0.106	-0.186			-0.054			-0.047	-0.050			0.000			0.000		0.000			
DESIGN CENTRELINE	145.295	145.360		145.681	145.703			146.135			146.506	146.578			147.079			147.283		147.338			
NATURAL SURFACE	144.977	145.053		145.787	145.890			146.189			146.553	146.628			147.079			147.283		147.338			
CHAINAGE	0.000	2.161		11.591	12.161			22.161			29.975	31.483			40.558			44.716		46.241			

LONGITUDINAL SECTION DRIVEWAY 07
VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

KR 7-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457958.020	6929213.395	146.556	340d23'56.06"
MJ	5.00	457955.025	6929217.297	146.322	304d35'20.55"
IP2	7.54	457954.322	6929223.778	146.236	
MJ	10.00	457950.313	6929218.709	146.175	268d46'45.05"
MJ	15.00	457945.666	6929217.097	146.115	232d58'09.55"
CC	15.09	457945.596	6929217.045	146.115	232d20'40.38"
MJ	20.00	457942.162	6929213.553	146.143	216d42'24.23"
IP3	21.89	457939.938	6929212.678	146.176	
MJ	25.00	457939.765	6929209.183	146.256	200d47'28.45"
IP4	28.69	457938.816	6929205.620	146.396	189d02'03.87"

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NOTES:
REFER DRG C405 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN - 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 7 OF 10

DEVEL. APPLIC. No. :		DATE : MAY 2024
PROJECT LEADER : NF		DESIGNER : TG
DRAFTSPERSON : TB		CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R		RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C366	VERSION: F

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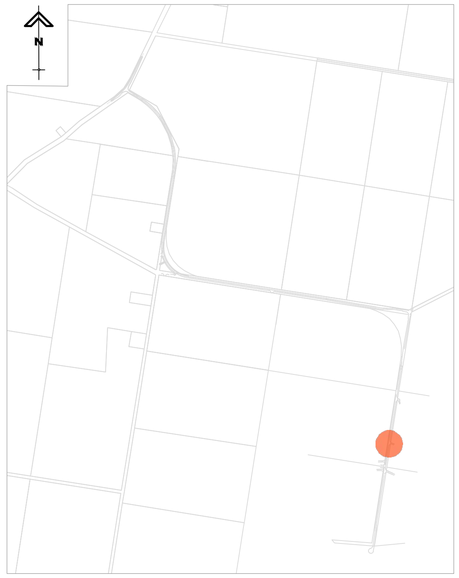
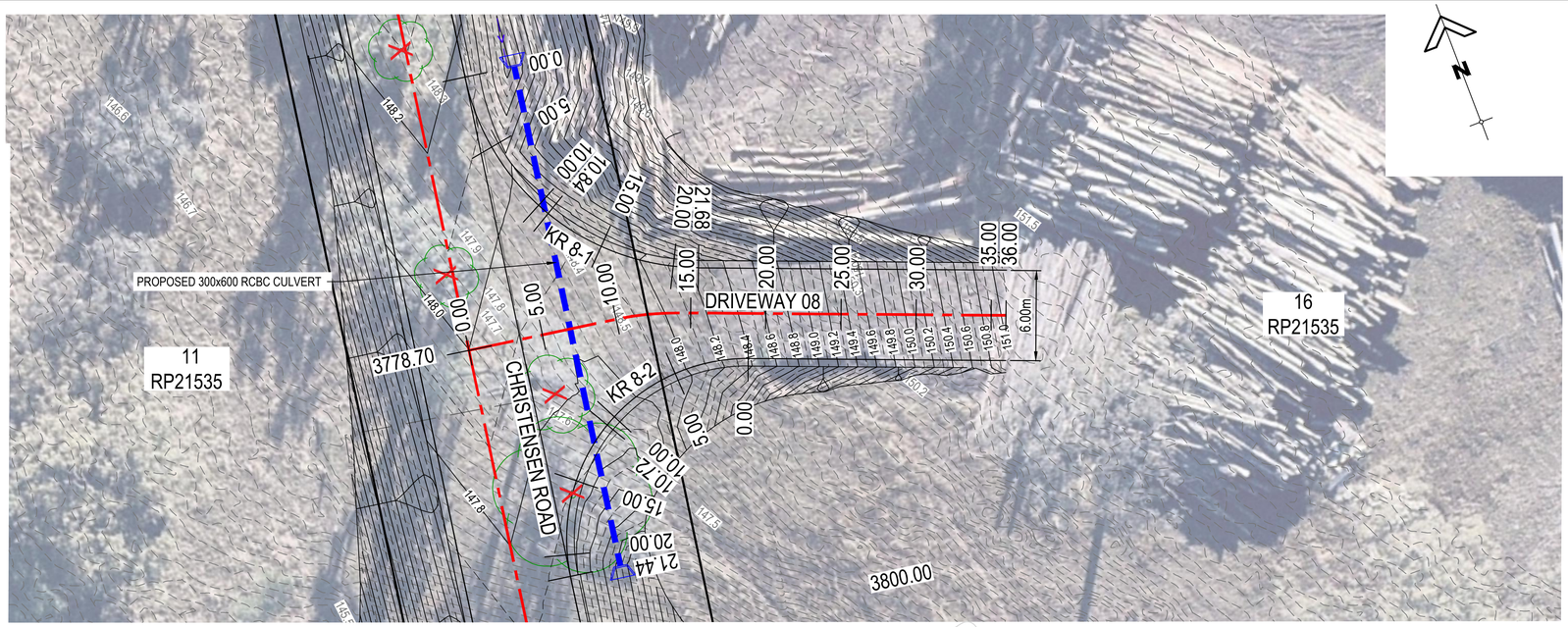
FILENAME: N:\Q\Qet_watmon_ltd_co\sub725 - documents\sub725\04x_int\210173p_mt walker quarry access rd\03_civil\01_DA\dwg A\02a_acad\C05_DRIVEWAY PLAN AND LONGITUDINAL SECTIONS.dwg
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.



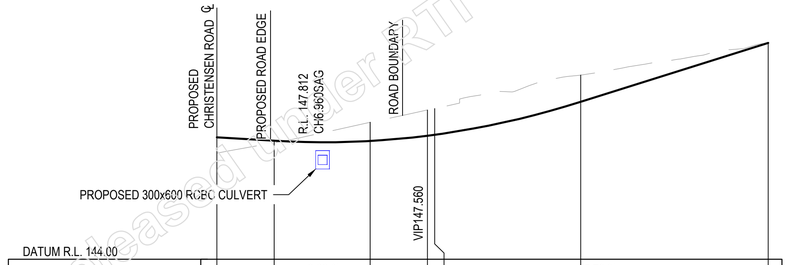
DRIVEWAY 08 PLAN
SCALE 1 : 200 AT A1 (metres)

LEGEND

- -90.00 EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 DESIGN MAJOR CONTOUR
- EXISTING TREES REMOVE
- EXISTING FENCE
- PROPOSED STORMWATER CULVERT & STONE PITCH HEADWALL

KR 8-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457899.538	6928958.588	148.130	189d02'03.87"
MJ	5.00	457899.531	6928953.608	148.047	171d07'46.12"
MJ	10.00	457901.055	6928948.868	147.947	153d13'28.37"
IP2	10.84	457897.517	6928945.876	147.929	
MJ	15.00	457903.963	6928944.825	147.919	135d19'10.62"
MJ	20.00	457907.972	6928941.872	148.121	117d24'52.86"
IP3	21.68	457909.501	6928941.179	148.242	111d24'05.79"



DATUM R.L. 144.00													
GRADE			-3.00 %						15.70 %				
LENGTH			VC 20.0										
			1.07 K										
HORIZONTAL ALIGNMENT ARC LENGTHS					4.21m		19.50m						
CUT/FILL	0.513	0.062	-0.607	-0.838	-0.858	-0.872	-0.000						
DESIGN CENTRELINE	147.972	147.860	147.855	148.027	148.058	149.130	151.053						
NATURAL SURFACE	147.459	147.798	148.462	148.866	148.916	150.002	151.053						
CHAINAGE	0.000	3.751	10.011	13.751	14.220	23.751	36.000						

LONGITUDINAL SECTION DRIVEWAY 08

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

KR 8-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457910.440	6928934.366	148.383	291d24'05.79"
MJ	5.00	457905.543	6928935.183	147.947	267d31'42.12"
MJ	10.00	457900.736	6928933.948	147.752	243d39'18.45"
IP2	10.72	457896.552	6928939.809	147.744	
MJ	15.00	457896.839	6928930.872	147.704	219d46'54.78"
MJ	20.00	457894.520	6928926.483	147.642	195d54'31.11"
IP3	21.44	457894.210	6928925.078	147.621	189d02'03.87"

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

NOTES:

REFER DRG C407 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 674 439 843
M. N/R
E. N/R nigelfletcherassociates.com.au

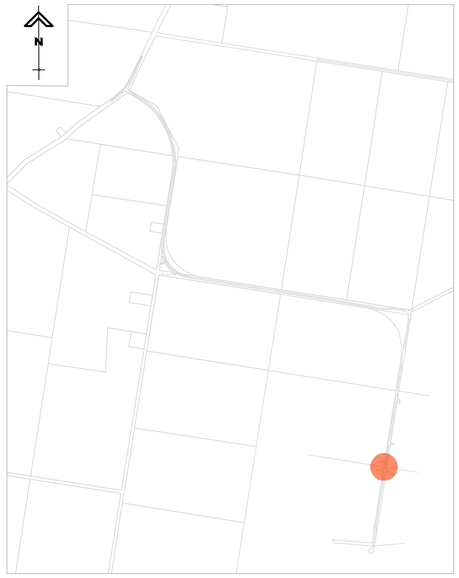
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 8 OF 10

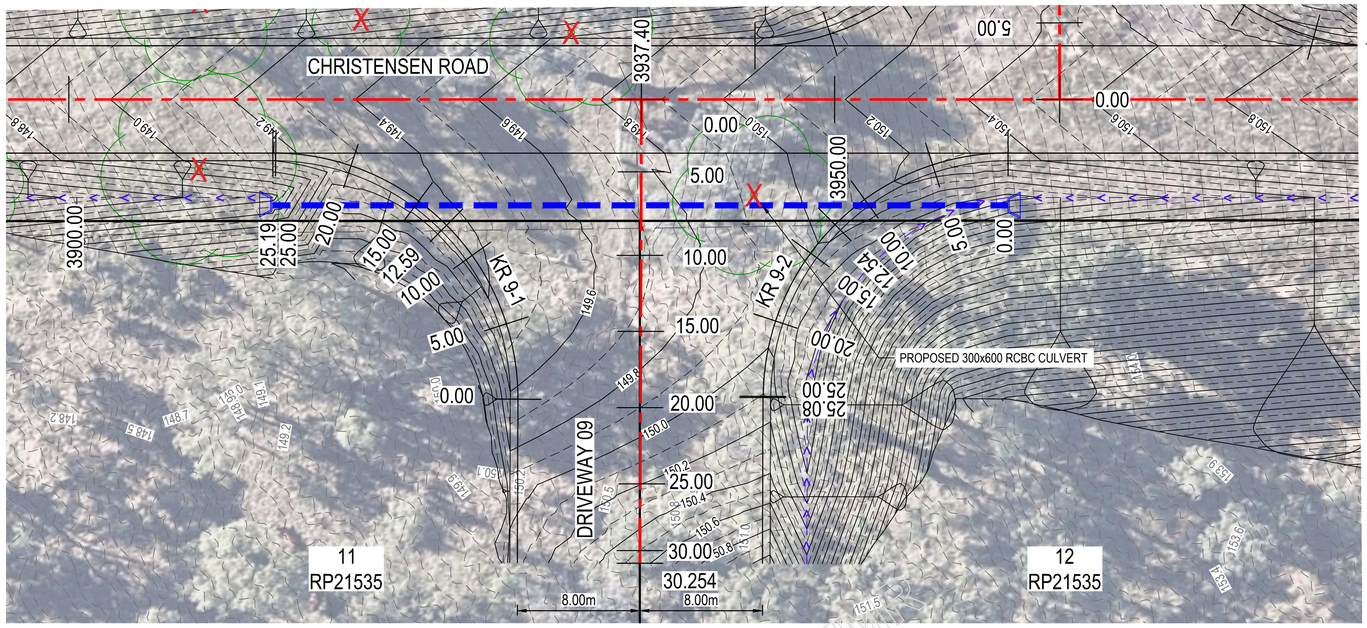
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C367 / VERSION: F

RTI-Released under RTI - DTMR

FILENAME N:\Q1\qf_walkmon_ltd_co\qu025 - documents\sub025804 info222239 mt walker quarry access sk\dgn\C358 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS SHEET 8 OF 10.dgn
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.



DRIVEWAY 09 PLAN

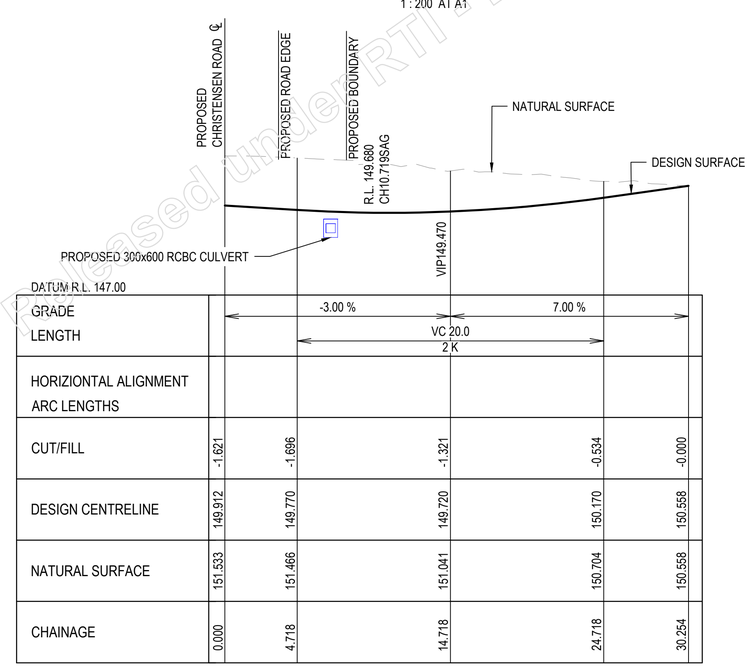
SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

LEGEND

- -90.00 — EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 — DESIGN MAJOR CONTOUR
- X — EXISTING TREES REMOVE
- EXISTING FENCE
- PROPOSED DRAIN
- PROPOSED STORMWATER CULVERT & STONE PITCH HEADWALL

KR 9-1 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457850.298	6928795.724	149.637	99d13'52.65"
MJ	5.00	457855.277	6928795.699	149.460	81d19'34.90"
MJ	10.00	457860.023	6928797.207	149.374	63d25'17.14"
IP2	12.59	457866.145	6928793.148	149.364	
MJ	15.00	457864.076	6928800.101	149.361	45d30'59.39"
MJ	20.00	457867.042	6928804.101	149.316	27d36'41.64"
MJ	25.00	457868.635	6928808.819	149.218	9d42'23.89"
IP3	25.19	457868.666	6928809.004	149.214	9d02'03.87"



LONGITUDINAL SECTION DRIVEWAY 09

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

KR 9-2 TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457861.129	6928761.599	150.414	9d02'03.87"
MJ	5.00	457861.136	6928766.579	150.280	351d07'46.12"
MJ	10.00	457859.612	6928771.320	150.130	333d13'28.37"
IP2	12.54	457863.632	6928777.347	150.047	
MJ	15.00	457856.704	6928775.362	149.983	315d19'10.62"
MJ	20.00	457852.694	6928778.315	149.968	297d24'52.86"
MJ	25.00	457847.971	6928779.892	150.106	279d30'35.11"
IP3	25.08	457847.894	6928779.904	150.109	279d13'52.65"

ISSUE FOR APPROVAL

DIAL BEFORE YOU DIG www.1100.com.au

NOTES:

REFER DRG C408 FOR SWEPT PATHS.

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN - 621 439 843
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E N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 9 OF 10

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD
FULL SIZE : A1	
PROJECT No.: 210173P	DRAWING No. : C368
VERSION: F	

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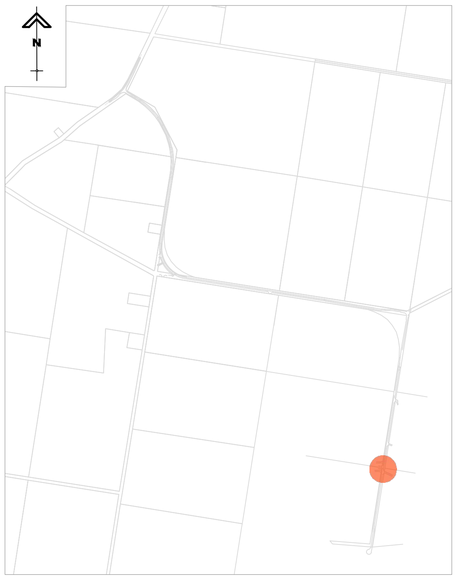
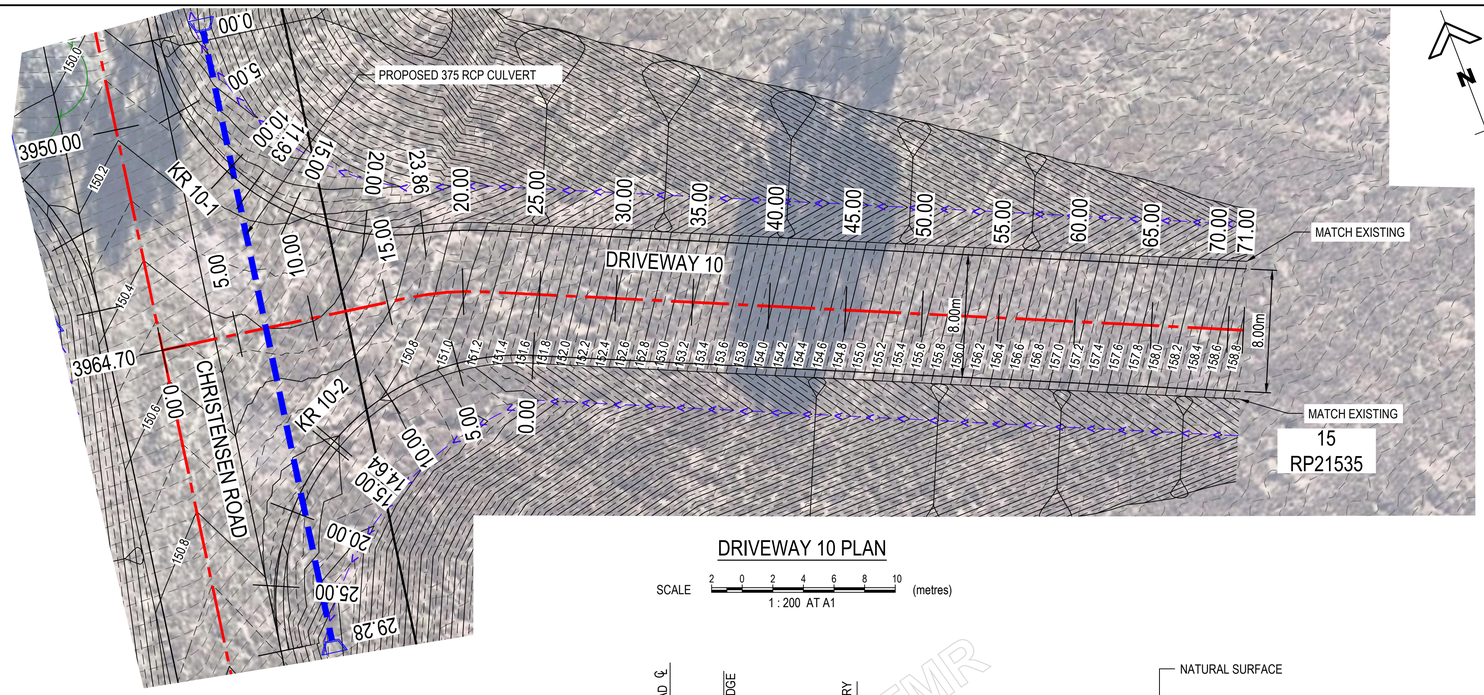
RTI-Release.pdf - Page Number: 103 of 448

FILENAME: N:\01\ad walmsley ltd c\a\ad025 - documents\cad\210173s - documents\cad\210173s mt walker quarry access rd\03. civil\01. DA\Rev A\02. acad\C59_DRIVEWAY PLAN AND LONGITUDINAL SECTIONS.dwg
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.



LEGEND

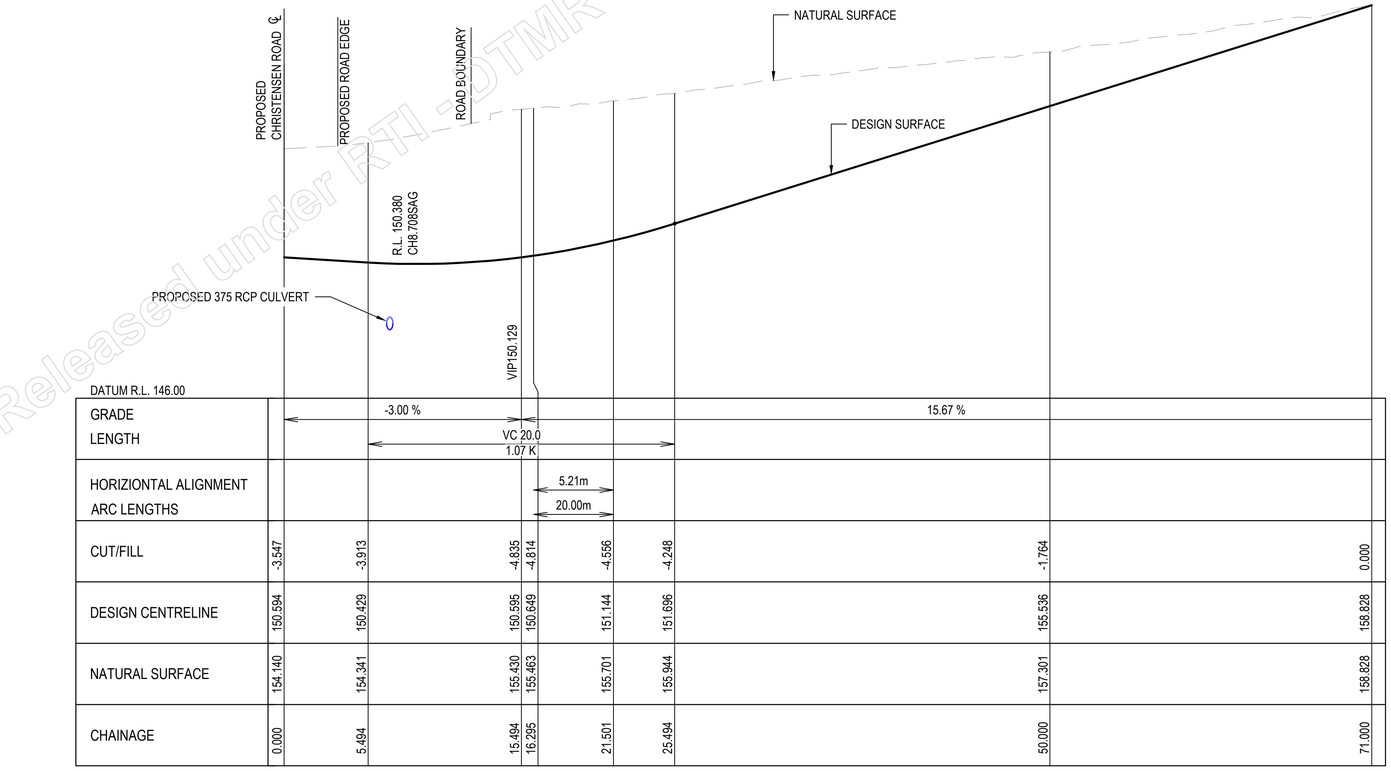
- -90.00 — EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- 90.00 — DESIGN MAJOR CONTOUR
- EXISTING FENCE
- PROPOSED DRAIN
- PROPOSED STORMWATER CULVERT & STONE PITCH HEADWALL

DRIVEWAY 10 PLAN

SCALE 2 0 2 4 6 8 10 (metres)
1 : 200 AT A1

KR 10-1 TABLE					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457870.637	6928776.824	150.000	189d02'03.87"
MJ	5.00	457870.630	6928771.844	150.099	171d07'46.12"
MJ	10.00	457872.154	6928767.104	150.143	153d13'28.37"
IP2	11.93	457868.317	6928762.232	150.146	
MJ	15.00	457875.062	6928763.061	150.179	135d19'10.62"
MJ	20.00	457879.072	6928760.108	150.378	117d24'52.86"
IP3	23.86	457882.678	6928758.760	150.656	103d35'34.04"

KR 10-2 TABLE					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
IP1	0.00	457886.521	6928748.732	151.708	293d52'21.39"
MJ	5.00	457881.709	6928750.014	151.109	275d58'03.63"
MJ	10.00	457876.736	6928749.755	150.814	258d03'45.88"
IP2	14.64	457867.509	6928757.146	150.812	
MJ	15.00	457872.084	6928747.979	150.822	240d09'28.13"
MJ	20.00	457868.202	6928744.859	150.950	222d15'10.38"
MJ	25.00	457865.468	6928740.697	151.059	204d20'52.63"
IP3	29.28	457864.244	6928736.613	151.137	189d02'03.87"



LONGITUDINAL SECTION DRIVEWAY 10

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 2 0 2 4 6 8 10 1:200 (meters)
AT A1

NOTES:

REFER DRG C409 FOR SWEPT PATHS.

ISSUE FOR APPROVAL

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 671 439 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
DRIVEWAY PLAN AND
LONGITUDINAL SECTIONS
SHEET 10 OF 10

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C369 / VERSION: F

FILENAME: N:\Q\Jet walmsley ltd co\job\025 - documents\sub\025dbs (info2023) mt walker quarry access rd\03. civil\01. DA\Rev A\A2x_dwg\C369 DRIVEWAY PLAN AND LONGITUDINAL SECTIONS.dwg
PLOTTED: 21 Mar 2025

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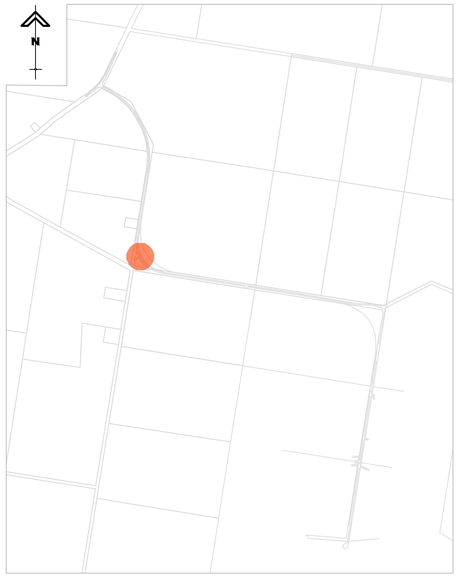


KEY PLAN
N.T.S.

LEGEND

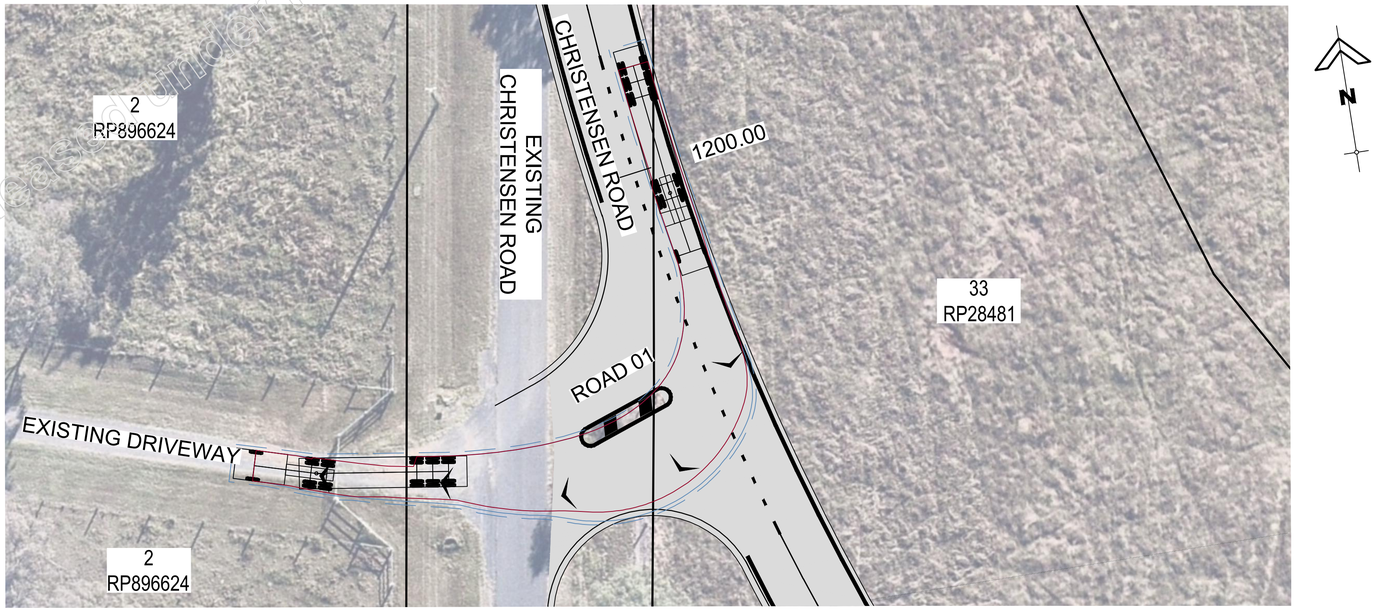
- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT

PRIME MOVER AND SEMI-TRAILER (19m)

OVERALL LENGTH	19.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.300m
MIN BODY GROUND CLEARANCE	0.540m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	12.500m

19m SEMI TURNING LEFT OUT

SCALE 5 0 5 10 (metres)
1 : 250 AT A1



19m SEMI TURNING RIGHT IN

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 071 139 843
M N/R
E N/R@nigelfletcherassociates.com.au

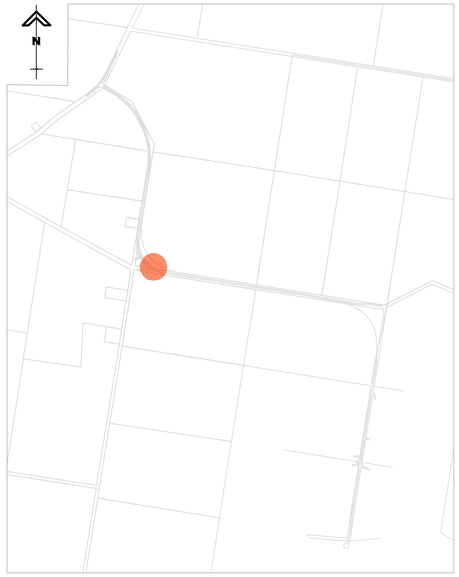
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 1 OF 11

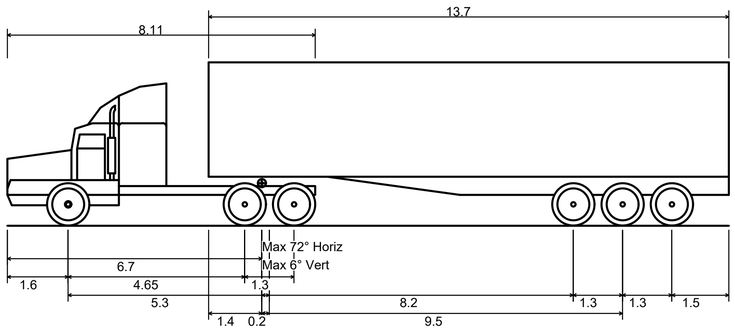
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C401 / VERSION: F

PLOTTED: 21 Mar 2025 FILENAME: N:\Q1\qe walmsley ltd co\job025 - documents\sub025b4 info\220221 mt walker quarry access rd\03_civil\01_DA\dwg\A1\01 SWEPT PATH LAYOUT PLAN.dwg

Released under RTI - DTMR



KEY PLAN
N.T.S.

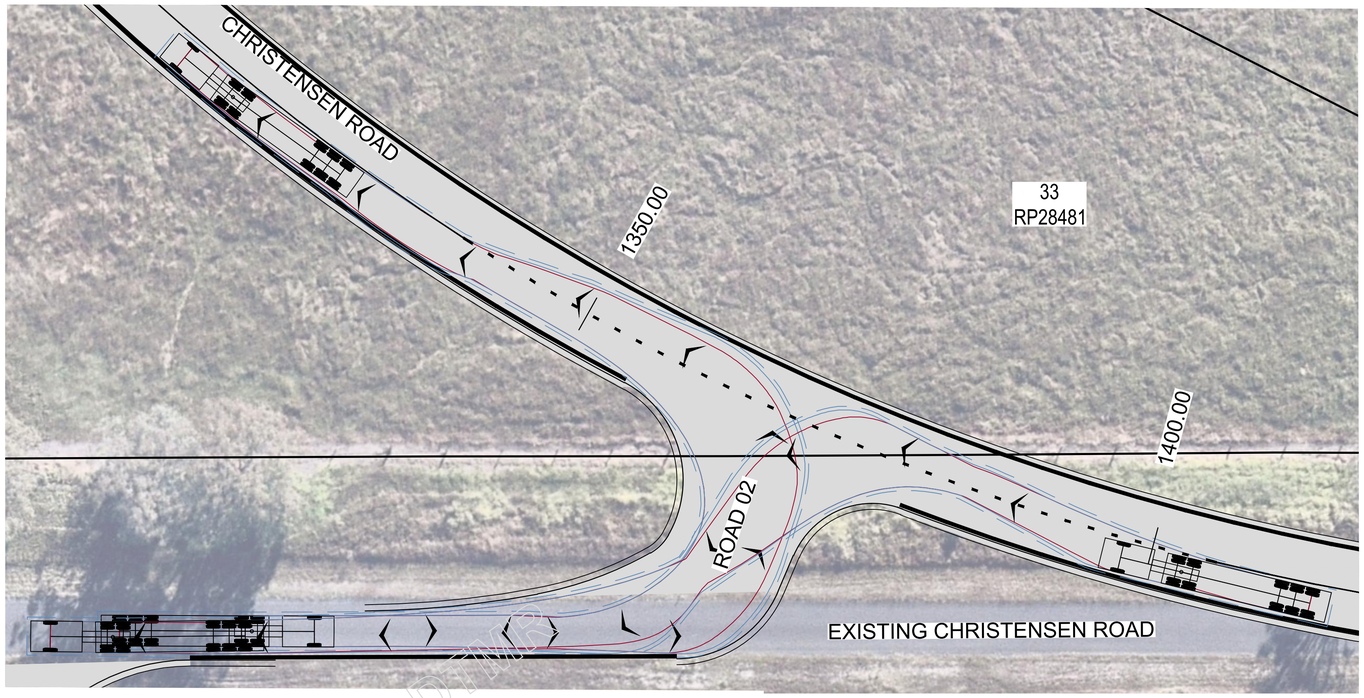


PRIME MOVER AND SEMI-TRAILER (19m)

OVERALL LENGTH	19.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.300m
MIN BODY GROUND CLEARANCE	0.540m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	12.500m

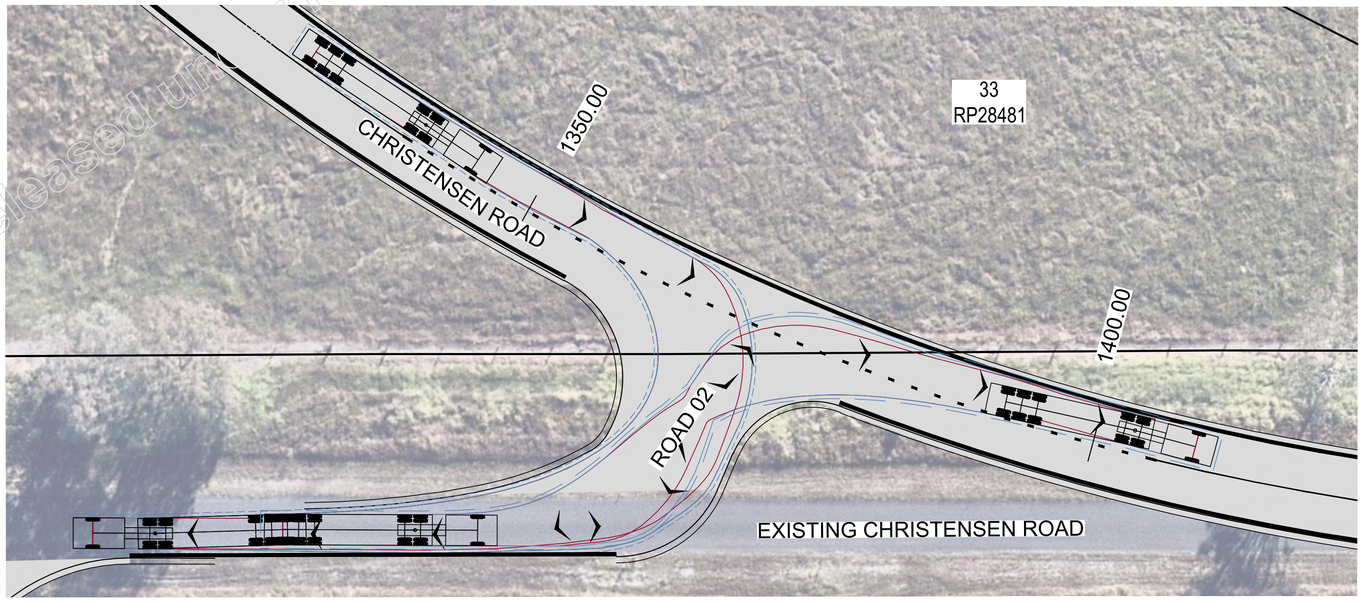
LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



19m SEMI TURNING LEFT IN AND LEFT OUT

SCALE 5 0 5 10 (metres)
1 : 250 AT A1



19m SEMI TURNING RIGHT IN AND RIGHT OUT

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 2 OF 11

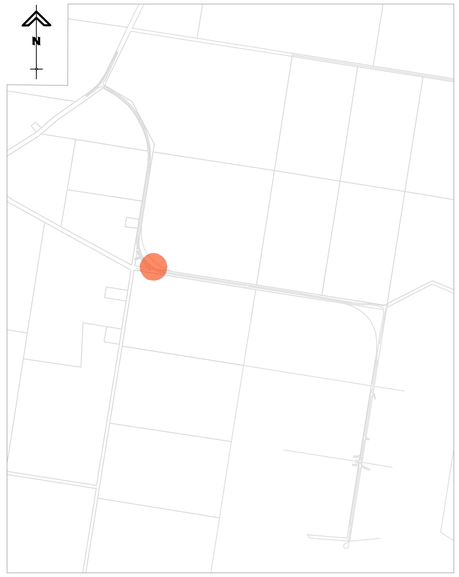
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

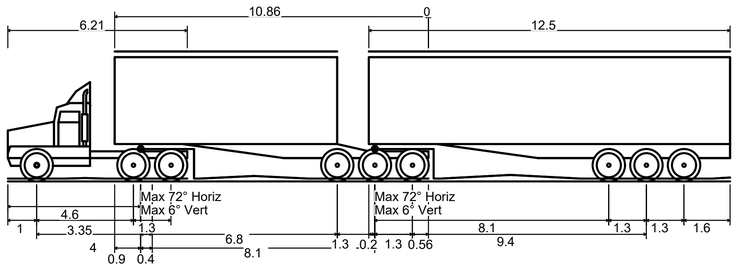
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C402	VERSION: F

Released under RTI - DTMR

FILENAME: N:\QLD\qal_watmon ltd_ca\ca0175 - documents\ca0175sk_(rfa22923) mt walker quarry access rd\03_civil\01_DA\dwg A3\02_acad\C408 SWEPT PATH LAYOUT PLAN.dwg
PLOTTED: 21 Mar 2025



KEY PLAN
N.T.S.



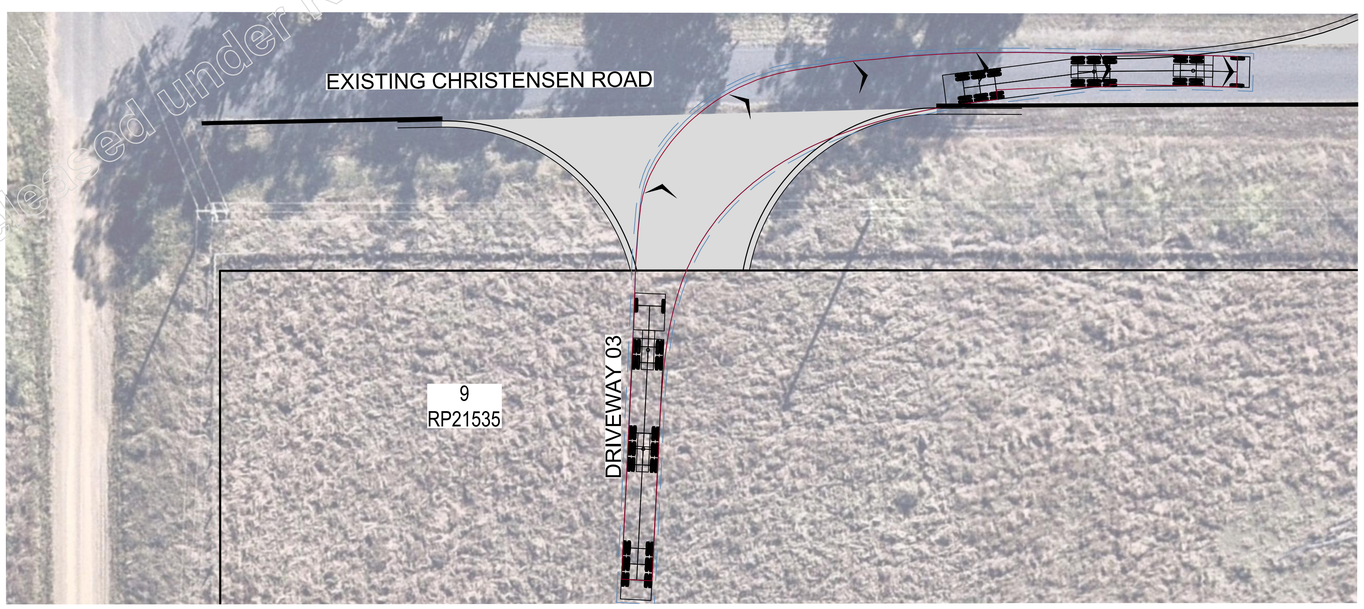
B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG

25.0m B-DOUBLE TURNING RIGHT IN

SCALE 5 0 5 10 (metres)
1 : 250 AT A1



25.0m B-DOUBLE TURNING RIGHT OUT

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

Released under RTI - DTMR

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
AC
M N/R
E N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

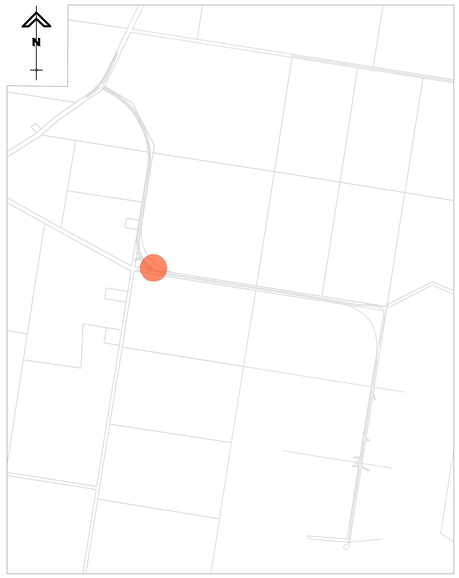
DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 3 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

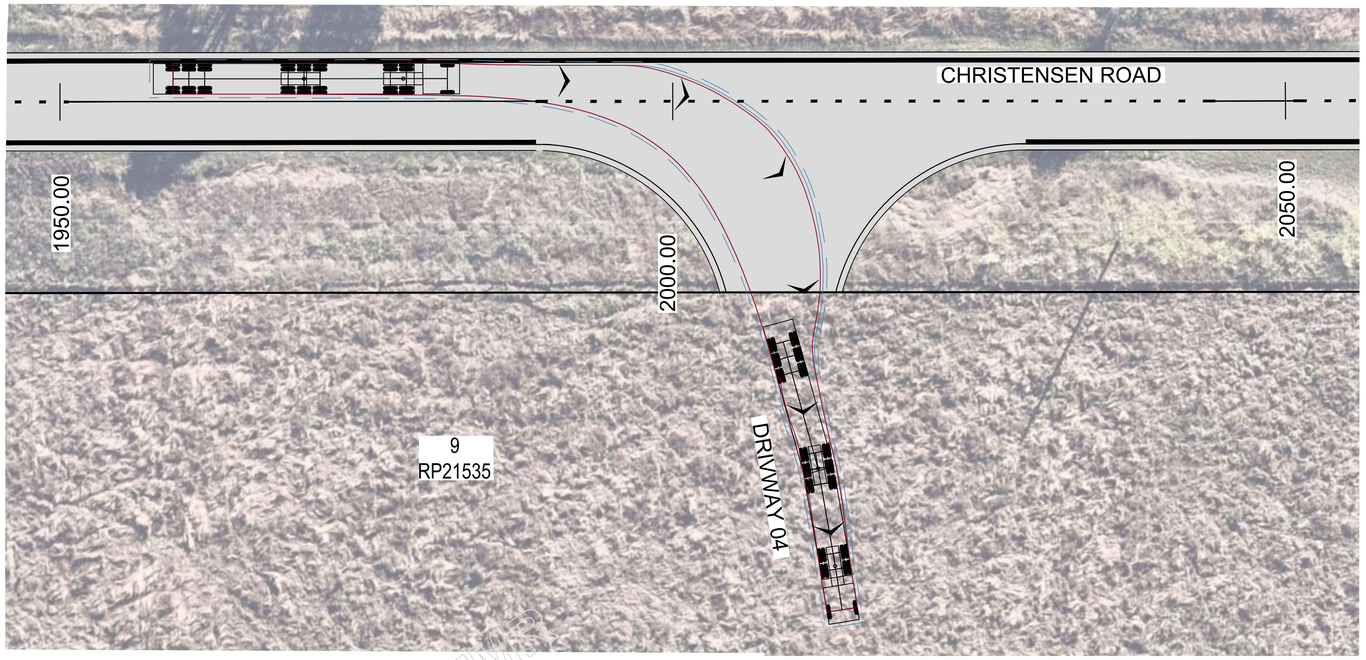
AP N/R BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C403	VERSION: F

FILENAME: N:\QL\qat_wetmon_ltd.ca\sub\75 - documents\sub\25814.int\22923.dr.walker quarry access rd\03_civil\01_DA\dwg A3\02.acadLT\SWEPT PATH LAYOUT PLAN.dwg
PLOTTED: 21 Mar 2025

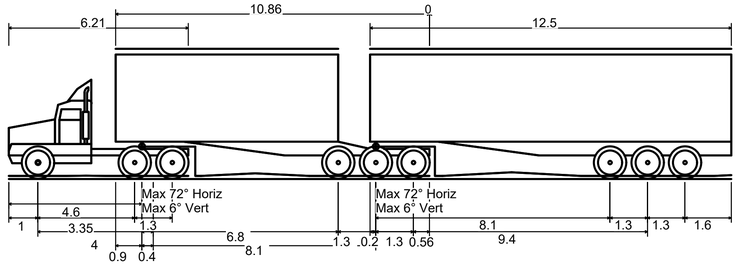


KEY PLAN
N.T.S.



25.0 m B-DOUBLE TURNING RIGHT IN

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

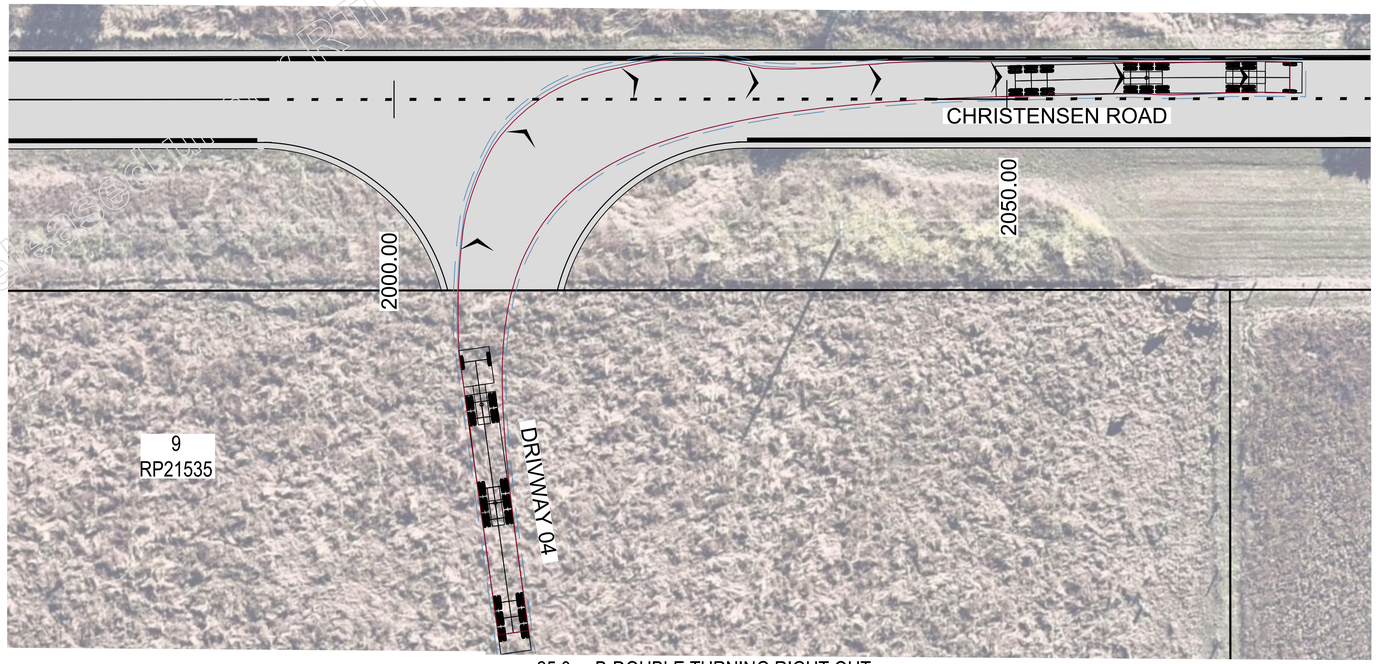


B-DOUBLE (25.0m)

OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



25.0 m B-DOUBLE TURNING RIGHT OUT

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 874 439 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 4 OF 11

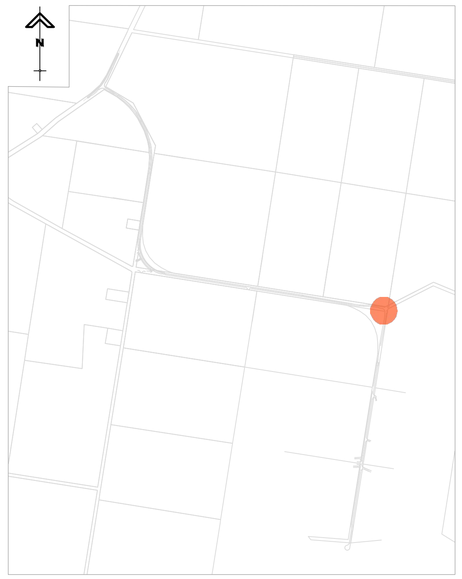
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPR N/R EHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. :

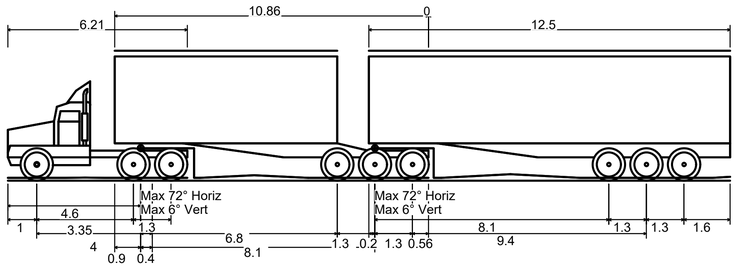
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C404	VERSION: F

FILENAME: N:\Qld\mt walker (dc\bob)25 - documents\bob)25454 (nfe)2223)\ mt walker quarry access rd\43. civil\01_DA\Rev A\02. acad\C448 SWEPT PATH LAYOUT PLAN.dwg
PLOTTED: 21 Mar 2025

Released to RTI - DTMR



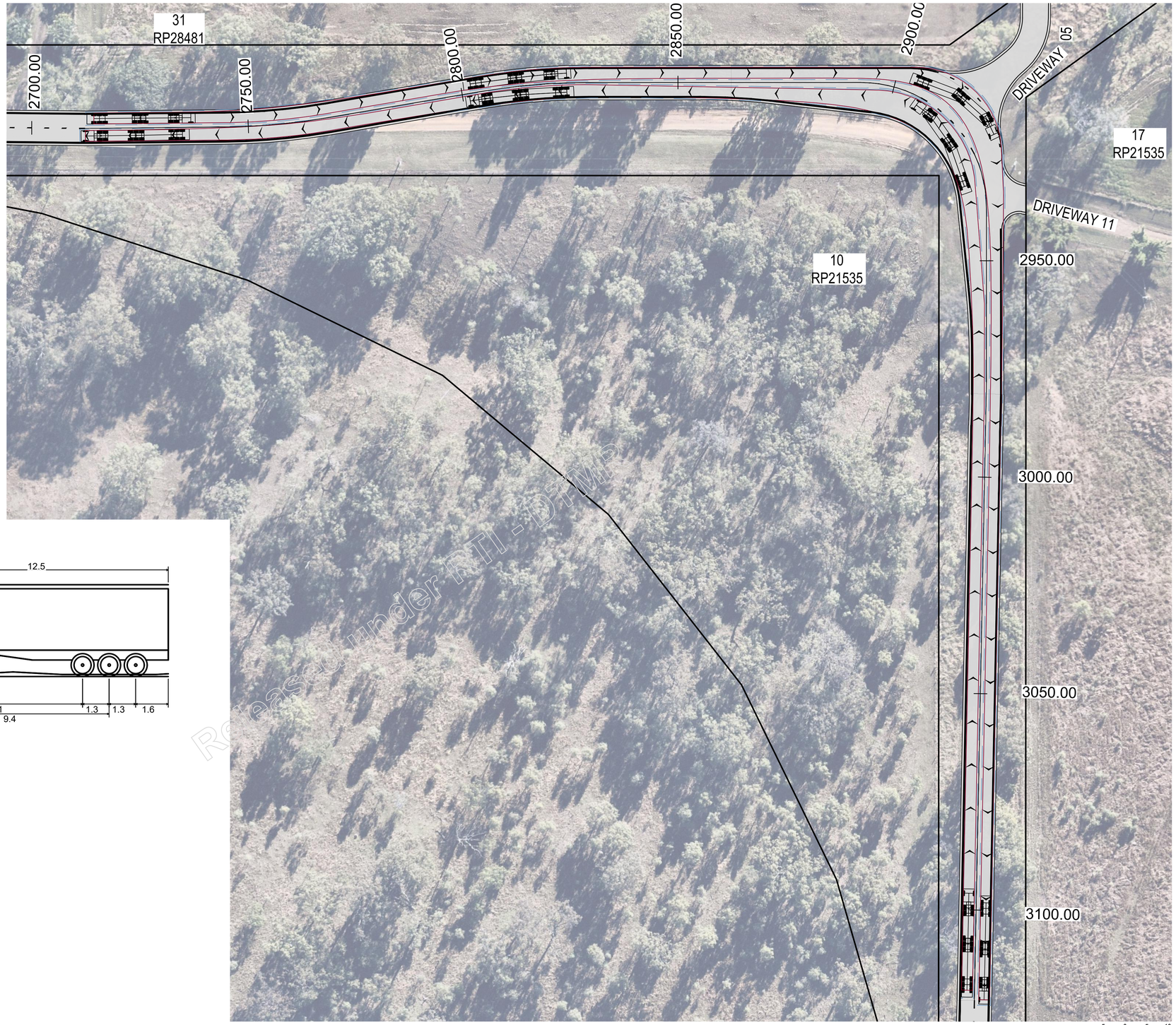
KEY PLAN



B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



25.0m B-DOUBLE TURNING BOTH WAYS

SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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SOUTHPORT PARK QLD 4215
ACN - 074 430 843
M N/R
E N/R@nigelfletcherassociates.com.au

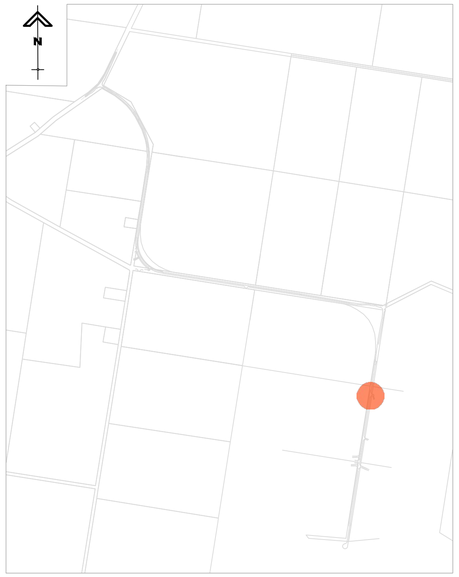
PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 5 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C405 / VERSION: F

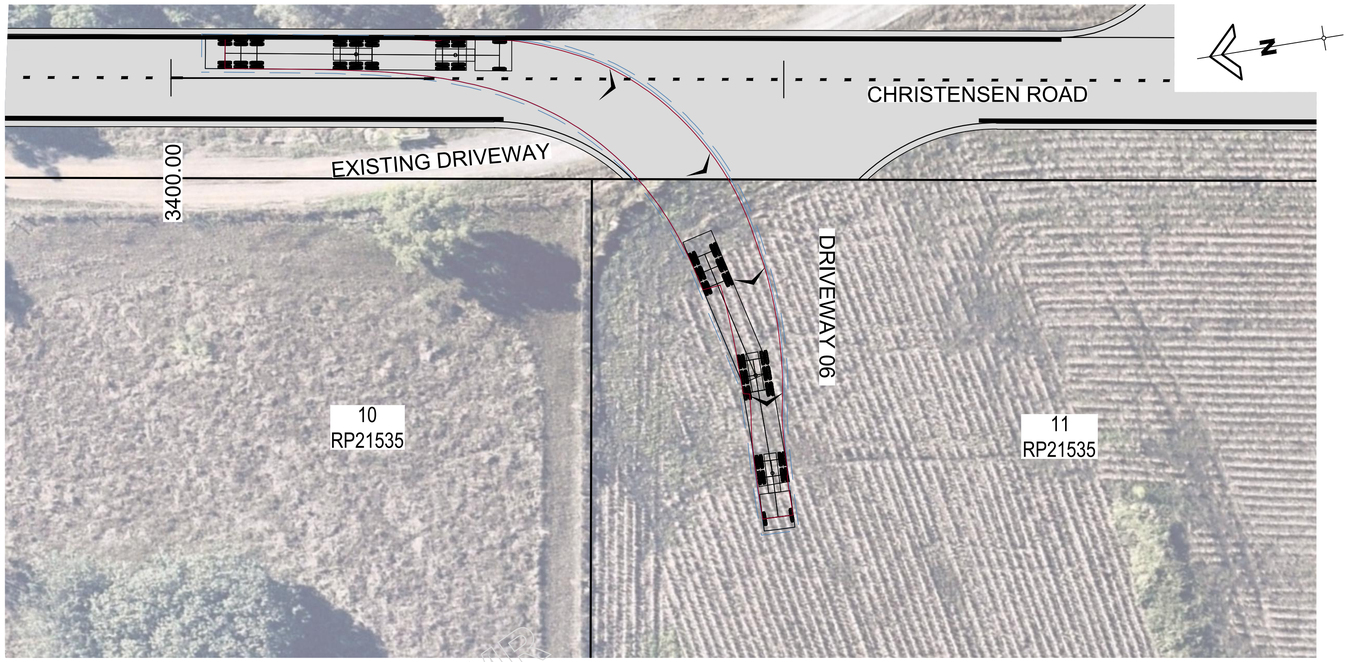
PLOTTED: 21 Mar 2025
FILENAME: N:\Q\Lot walmsley ltd co\wal025 - documents\cad\25dbk info\23023 mt walker quarry access rd\03_civil\01_DRA\Rev A\02a_dra0\C405 SWEPT PATH LAYOUT PLAN.dwg

Released under RTI-DMR



KEY PLAN

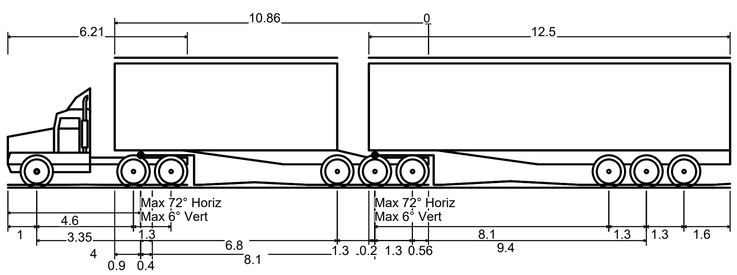
N.T.S.



25.0 m B-DOUBLE TURNING RIGHT IN

SCALE 5 0 5 10 (metres)

1 : 250 AT A1



B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT

25.0m B-DOUBLE TURNING RIGHT OUT

SCALE 5 0 5 10 (metres)

1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 624 150 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:

MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :

SWEPT PATH LAYOUT PLAN
SHEET 6 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.

N/R

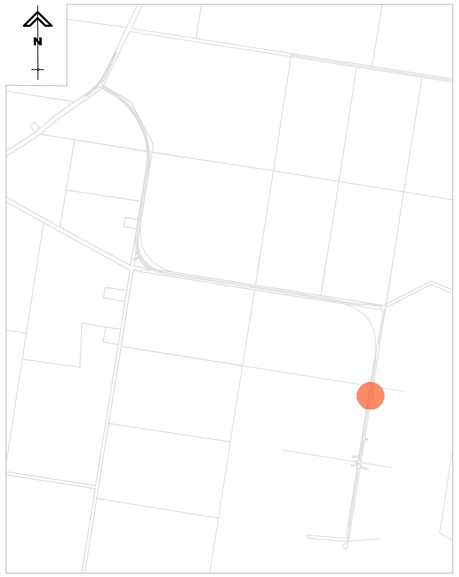
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C406	VERSION: F

FILENAME: N:\GC\1\gc_mtwalker\dfe\cad\dgn\25-_documents\sub\25084_tmf223223_mt_walker_quarry_access_r0433_civil3d_DA\Rev_A\02_quad\C406_SwEPT PATH LAYOUT PLAN.dwg

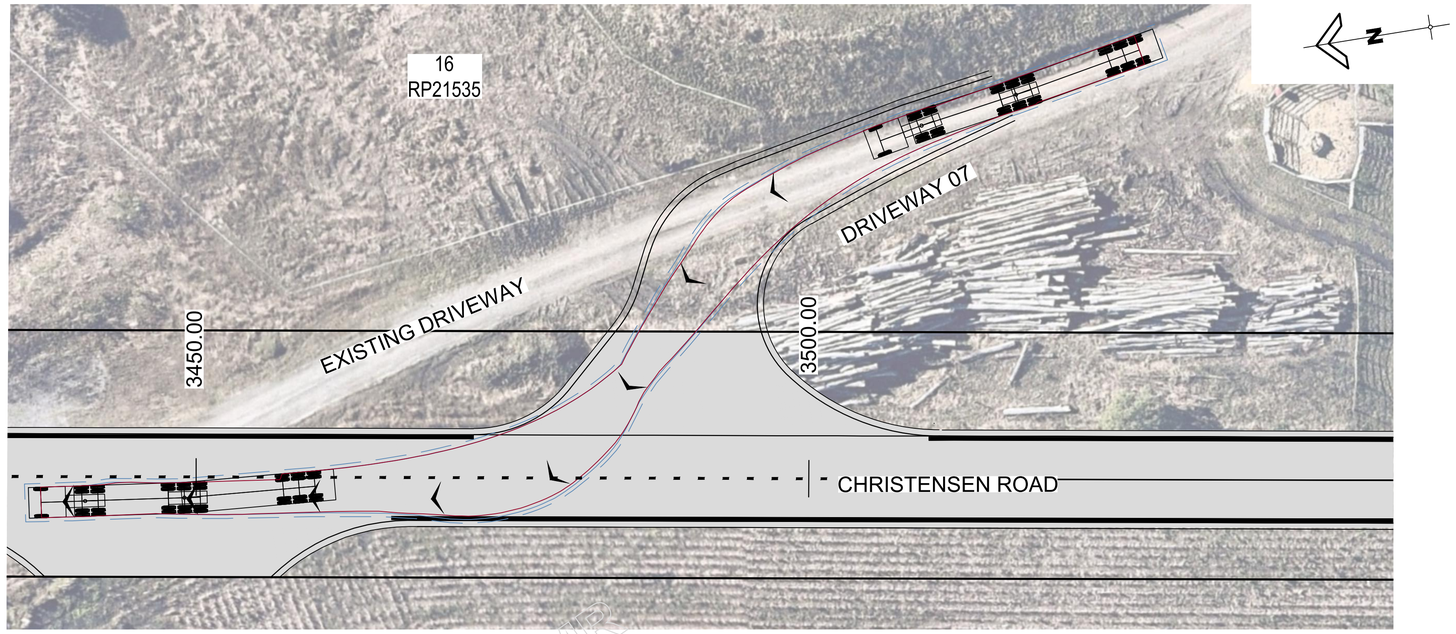
PLOTTED: 21 Mar 2025

RTI-Release.pdf - Page Number: 110 of 448



KEY PLAN

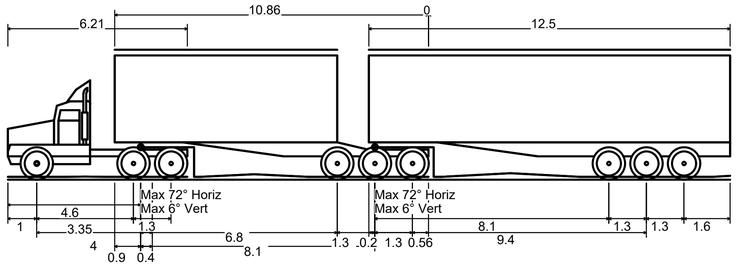
N.T.S.



25.0 m B-DOUBLE TURNING RIGHT OUT

SCALE 5 0 5 10 (metres)

1 : 250 AT A1



B-DOUBLE (25.0m)

OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

VEHICLE BODY ENVELOPE

WHEEL PATH

0.3m OVERHANG

PROPOSED ROAD PAVEMENT

25.0m B-DOUBLE TURNING LEFT IN

SCALE 5 0 5 10 (metres)

1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
AC N/R
M N/R
E N/R@nigelfletcherassociates.com.au

PROJECT:

MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :

SWEPT PATH LAYOUT PLAN
SHEET 7 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

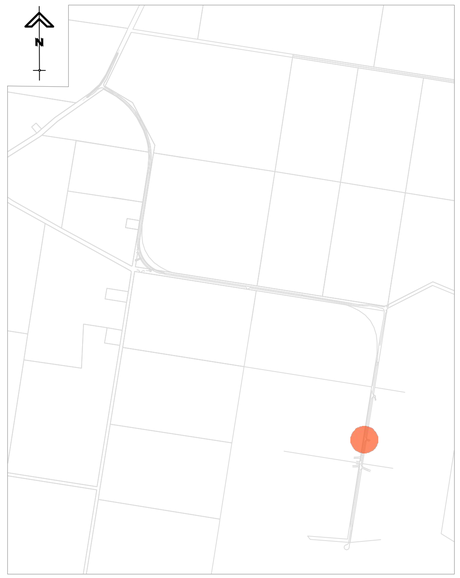
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.

N/R

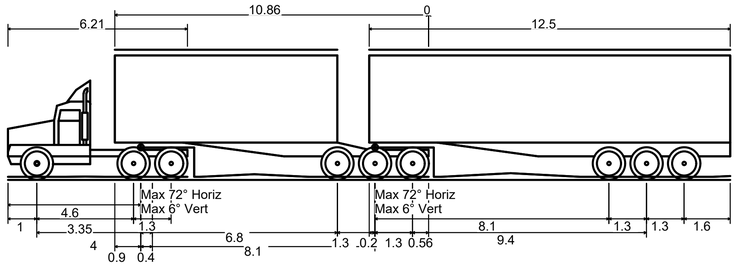
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C407	VERSION: F

PLOTTED: 21 Mar 2025
FILENAME: N:\Q\Let walmsn ltd co\sub025 - documents\sub025dtl\ info\22023\ mt walker quarry access rd\03. cad\01. DA\Rev A\02. dgn\C408 SWEPT PATH LAYOUT PLAN.dwg



KEY PLAN
N.T.S.

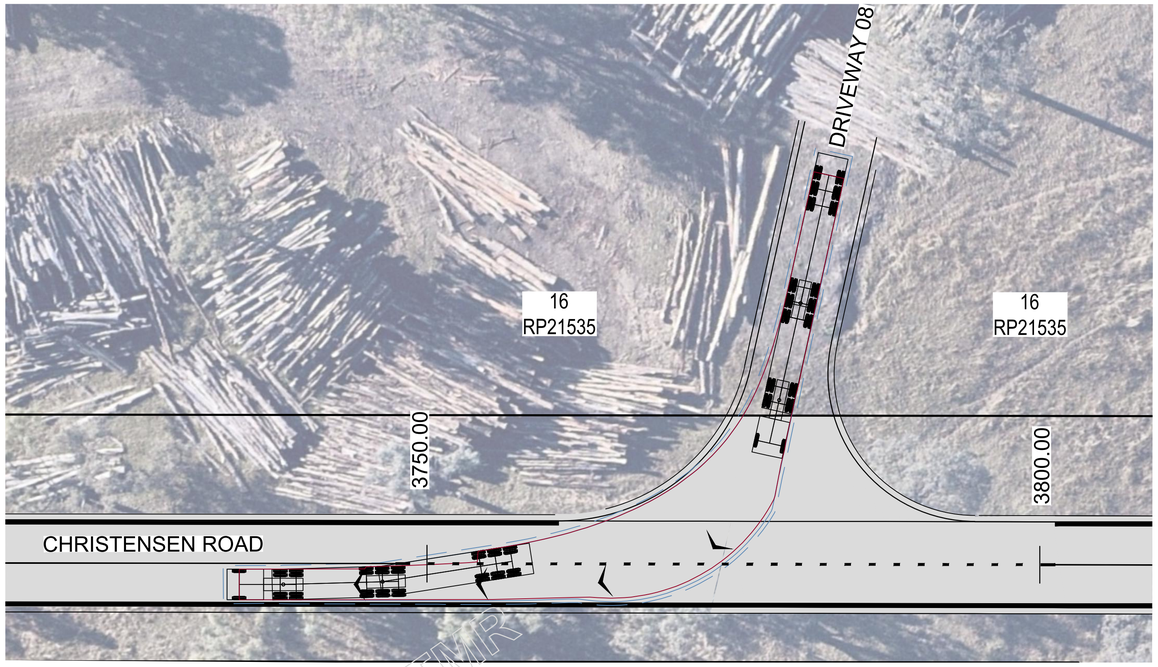


B-DOUBLE (25.0m)

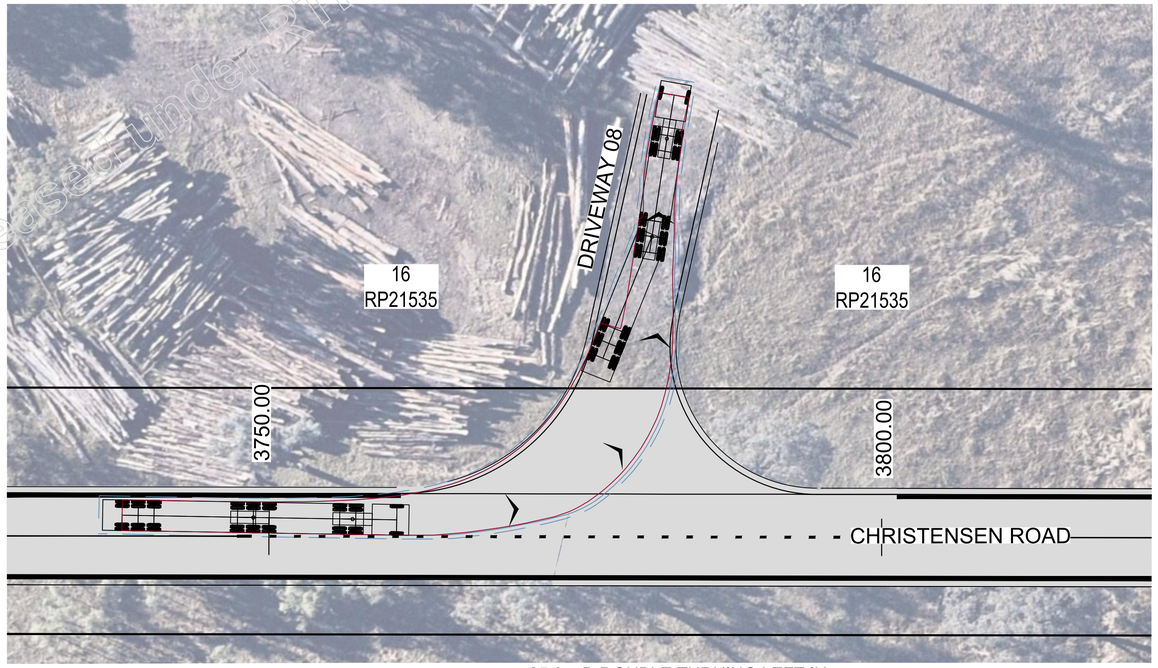
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



25.0m B-DOUBLE TURNING RIGHT OUT
SCALE 5 0 5 10 (metres)
1 : 250 AT A1



25.0m B-DOUBLE TURNING LEFT IN
SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN: 671 130 843
M: N/R
E: N/R info@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 8 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

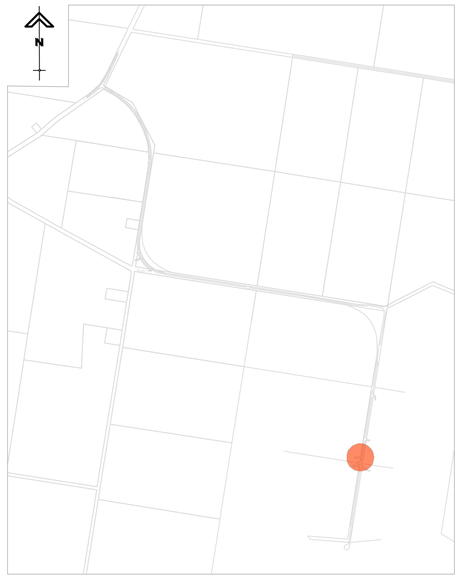
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C408	VERSION: F

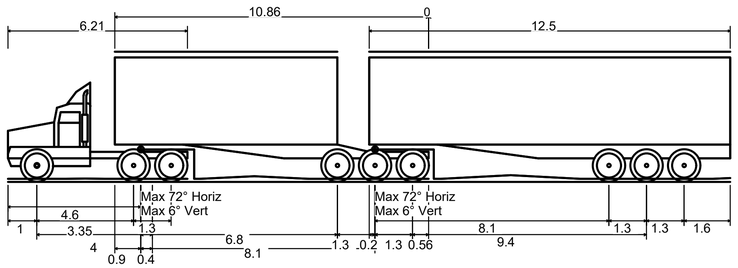
Released Under RTI - DTMR

RTI-Release.pdf - Page Number: 112 of 448

PLOTTED: 21 Mar 2025 FILENAME: N:\Qld_Workarea_Ltd_Cos\job725 - documents\cad\210725s_info2202231 mt walker quarry access rev03, rev\A1\ DRAWer A\A2z_autoCAD\C408 SWEPT PATH LAYOUT PLAN.dwg



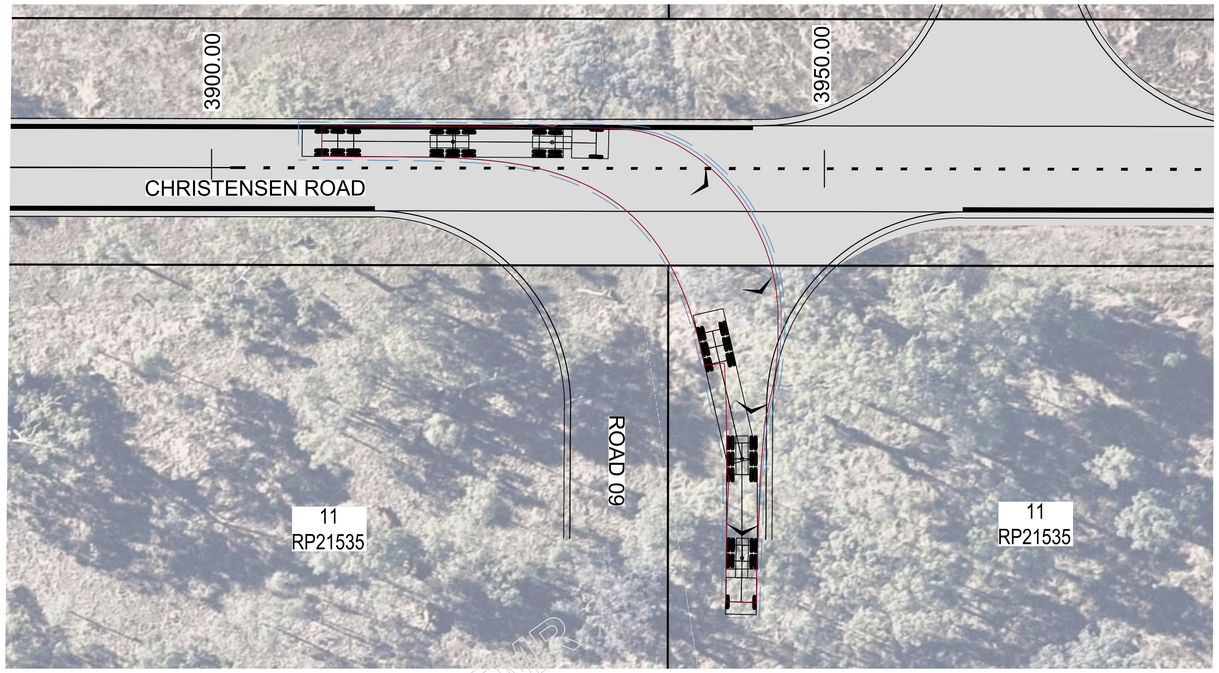
KEY PLAN
N.T.S.



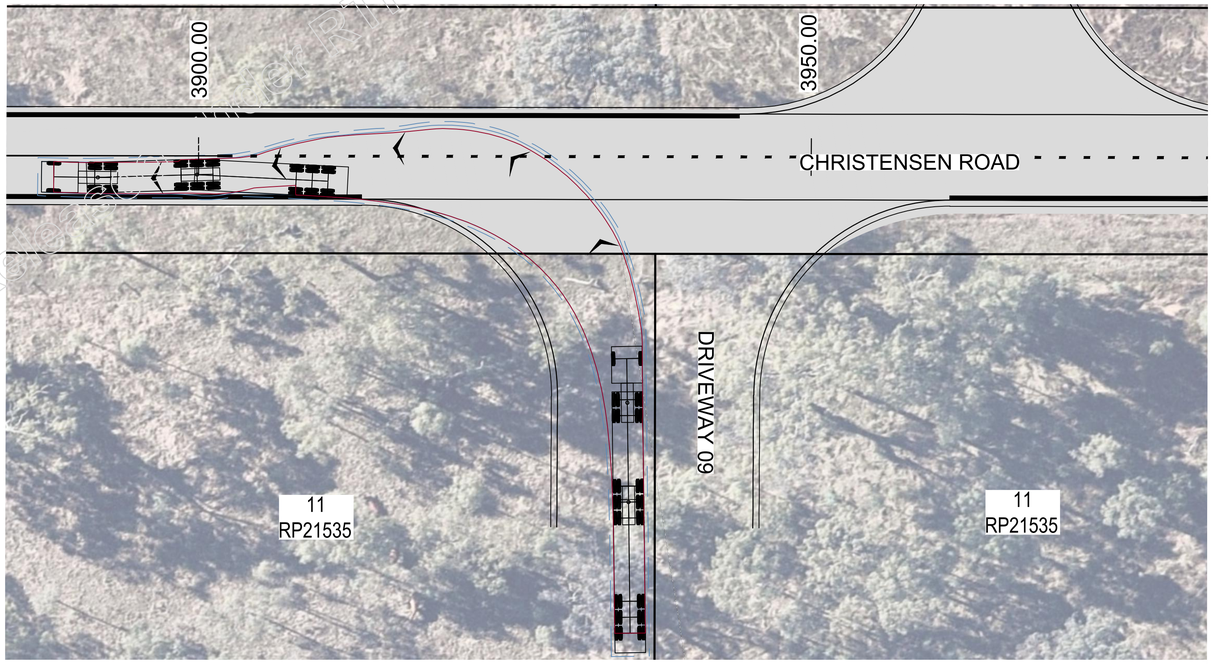
B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



25.0m B-DOUBLE TURNING RIGHT IN
SCALE 5 0 5 10 (metres)
1 : 250 AT A1



25.0m B-DOUBLE TURNING LEFT OUT
SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
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E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 9 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

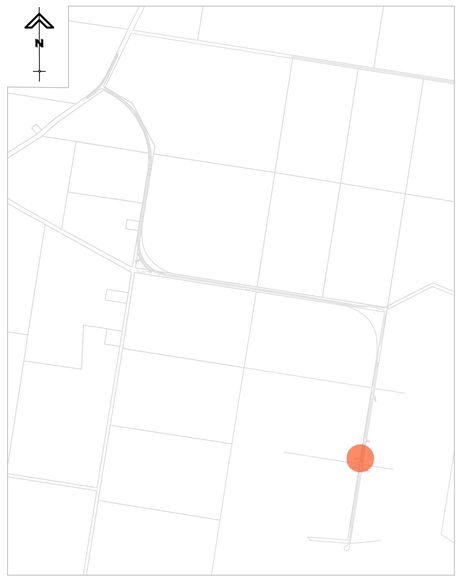
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

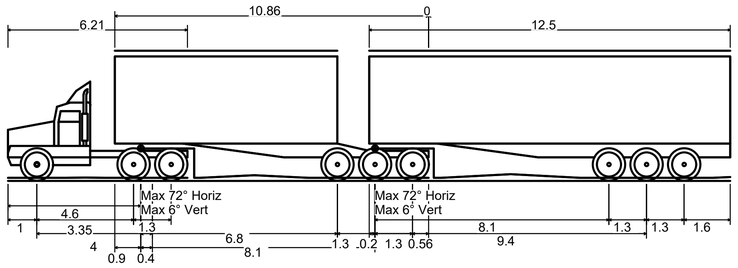
PROJECT No.:	DRAWING No. :	VERSION:
210173P	C409	F

FILENAME: N:\Civil\mtwalker IFA ex\sub25 - documents\sub25004 Info220223 mt walker quarry access rd\33_civil\31_DA\Rev A\02_acad\C409 SWEPT PATH LAYOUT PLAN.dwg
PLOTTED: 21 Mar 2025

RTI-Release.pdf - Page Number: 113 of 448



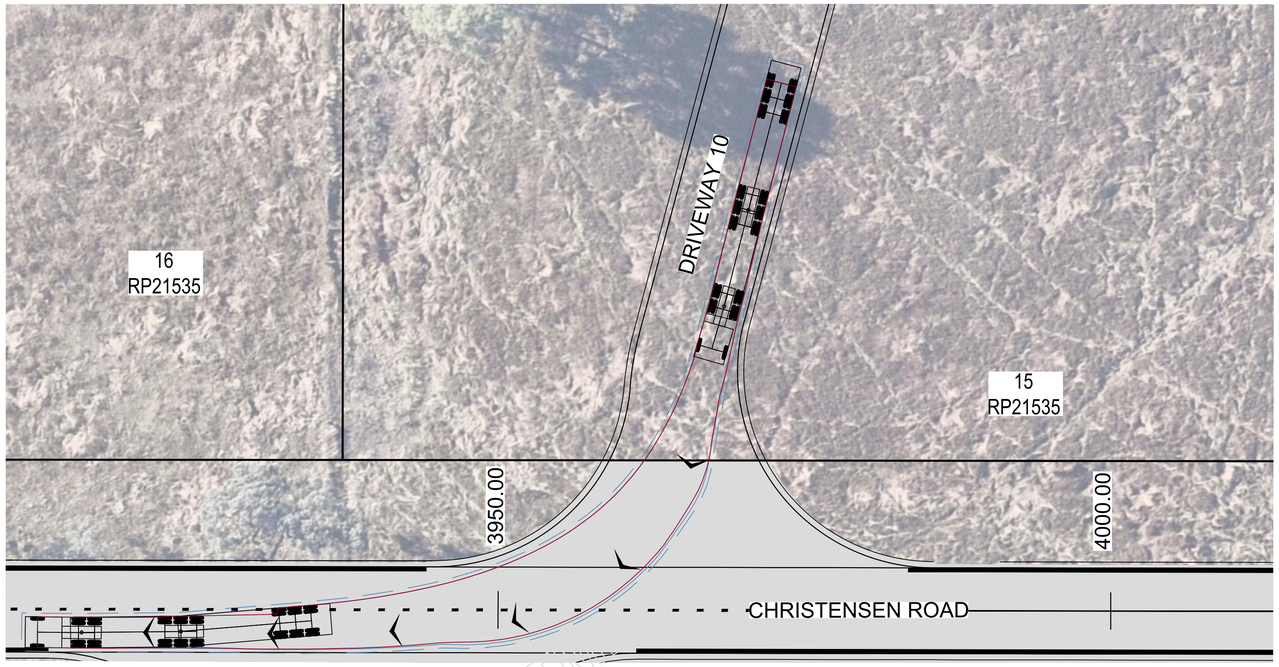
KEY PLAN
N.T.S.



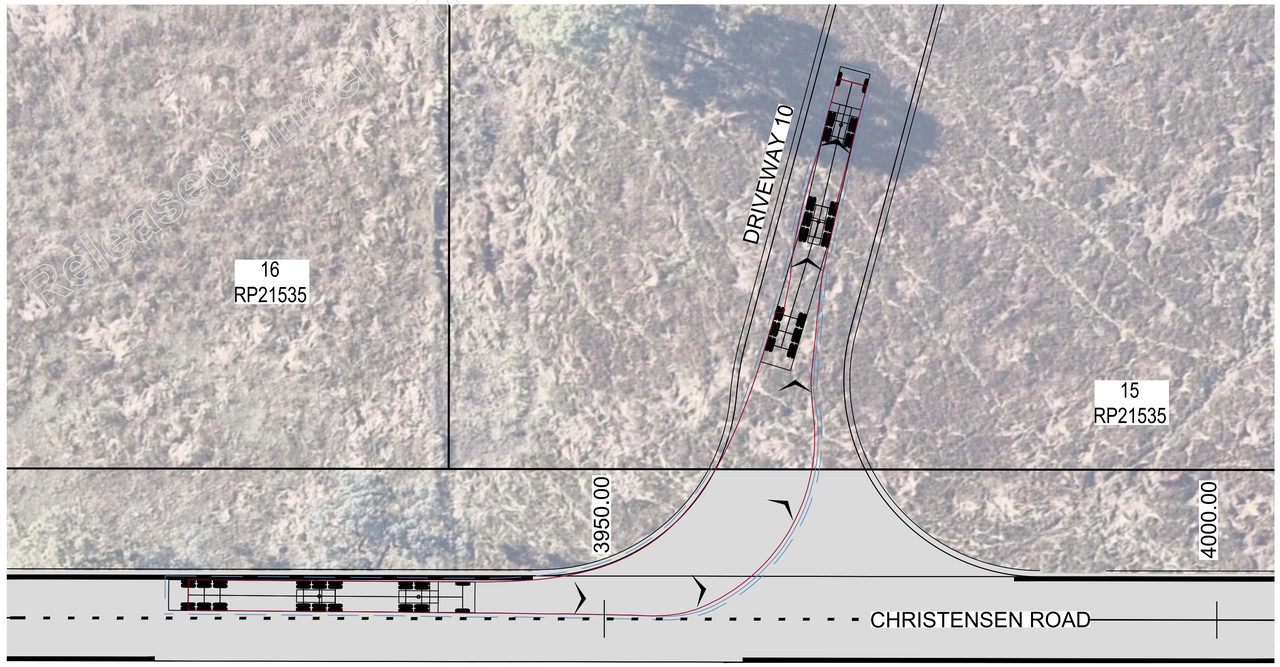
B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



25.0m B-DOUBLE TURNING RIGHT OUT
SCALE 5 0 5 10 (metres)
1 : 250 AT A1



25.0m B-DOUBLE TURNING LEFT IN
SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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ACN : 671 139 843
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 10 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C410	VERSION: F

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PLOTTED: 21 Mar 2025

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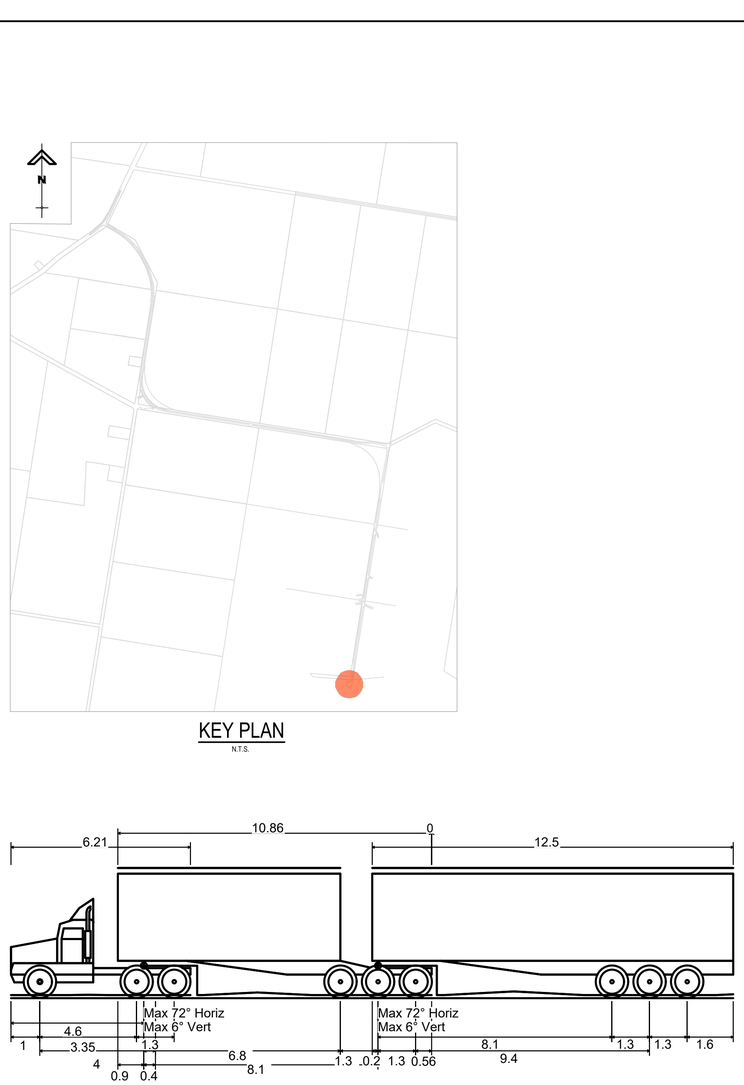
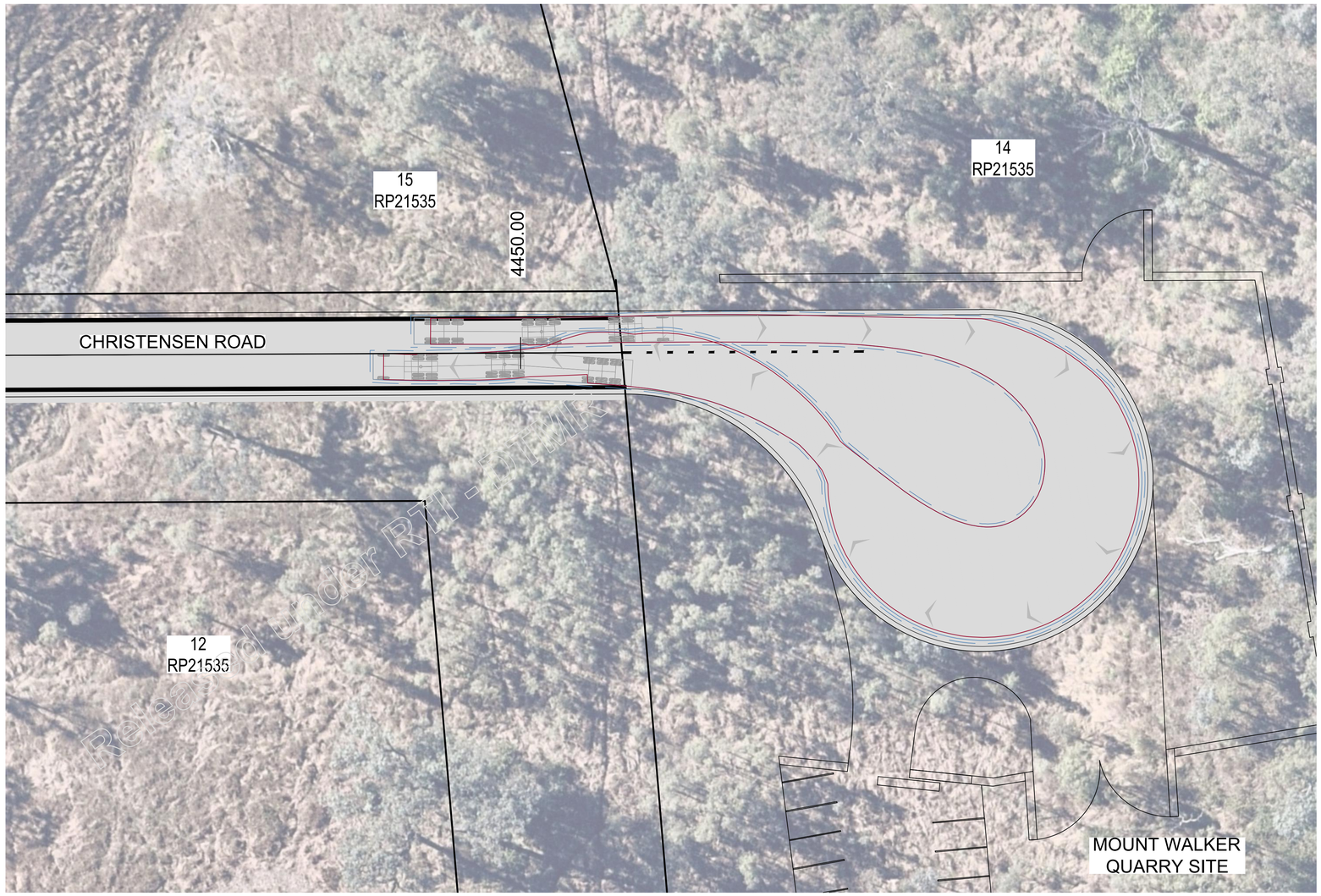
KEY PLAN
N.T.S.



B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



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25.0m B-DOUBLE TURNING AROUND

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
F	COUNCIL APPROVAL	NF	20.03.25
E	PRE - COUNCIL ISSUE	NF	05.02.25
D	DETAIL DESIGN	NF	24.12.24
C	FUNCTIONAL DESIGN REVIEW	NF	28.07.24
B	FUNCTIONAL DESIGN - DRAFT	NF	07.07.24
A	CONCEPT REVIEW	NF	24.05.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

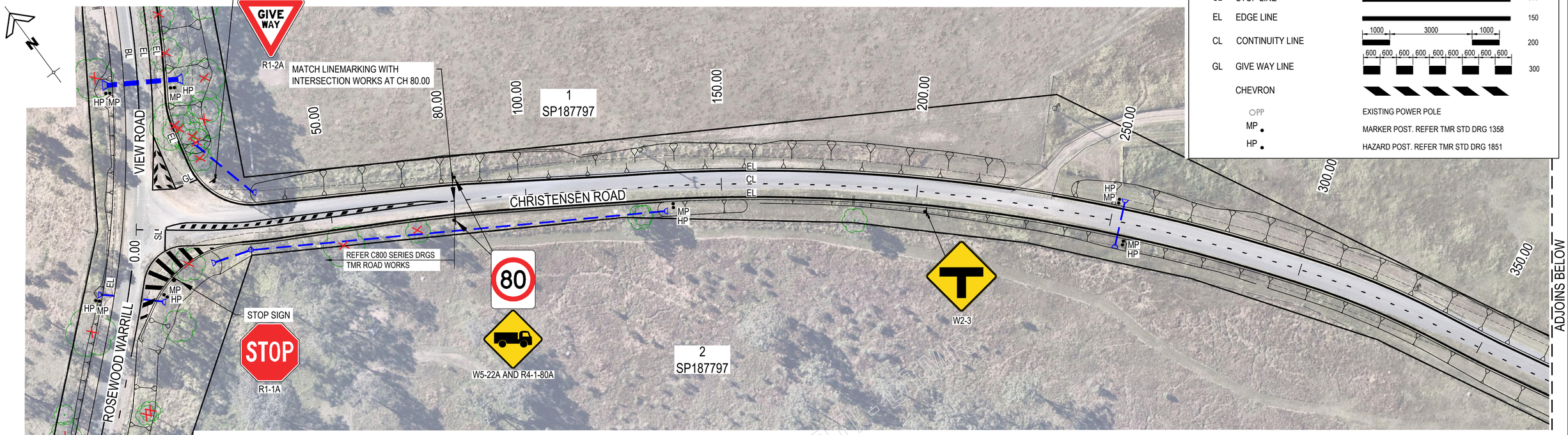
DRAWING TITLE :
SWEPT PATH LAYOUT PLAN
SHEET 11 OF 11

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

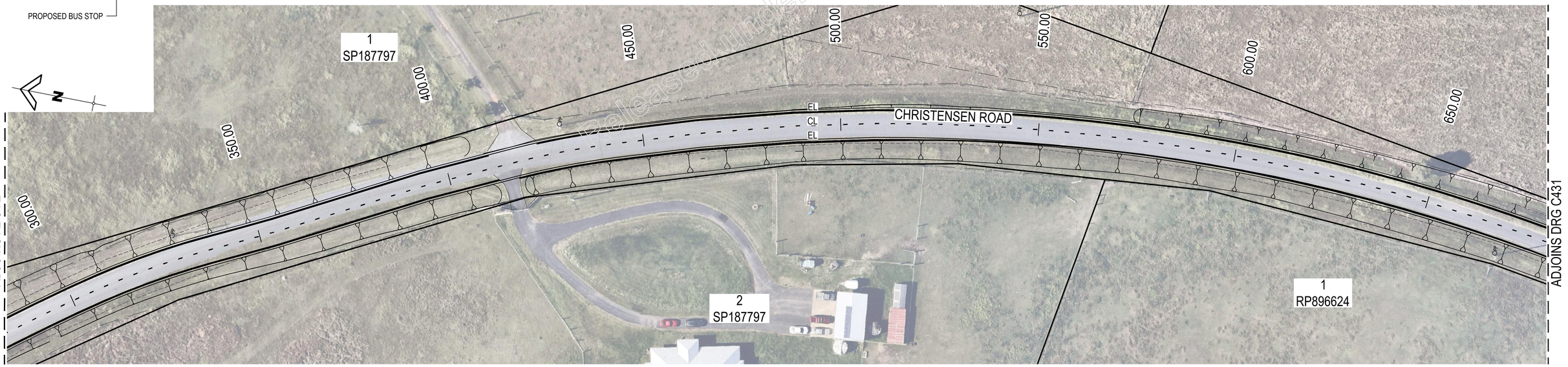
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C411	VERSION: F

PLOTTED: 31 Mar 2025
FILENAME: N:\Qld\qc_vietnam_ltd_ca\ca0025 - documents\ca0025814 (ntq22923) mt walker quarry access rd\03 - civil\01 DA\dwg A3\02 ca0025814 SWEPT PATH LAYOUT PLAN.dwg



CHRISTENSEN ROAD ROADWORKS PLAN (CH 0.00 - CH 350.00)

PROPOSED BUS STOP



CHRISTENSEN ROAD ROADWORKS PLAN (CH 300.00 - CH 650.00)

LEGEND:

BL	BARRIER LINES (TWO-WAY)	80 80 80
SL	STOP LINE	300
EL	EDGE LINE	150
CL	CONTINUITY LINE	1000 3000 1000 — 200
GL	GIVE WAY LINE	600 600 600 600 600 600 600 600 — 300
	CHEVRON	
	PP	EXISTING POWER POLE
MP	•	MARKER POST. REFER TMR STD DRG 1358
HP	•	HAZARD POST. REFER TMR STD DRG 1851

ISSUE FOR APPROVAL

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 1 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C430	VERSION: C

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PLOTTED: 21 Mar 2025

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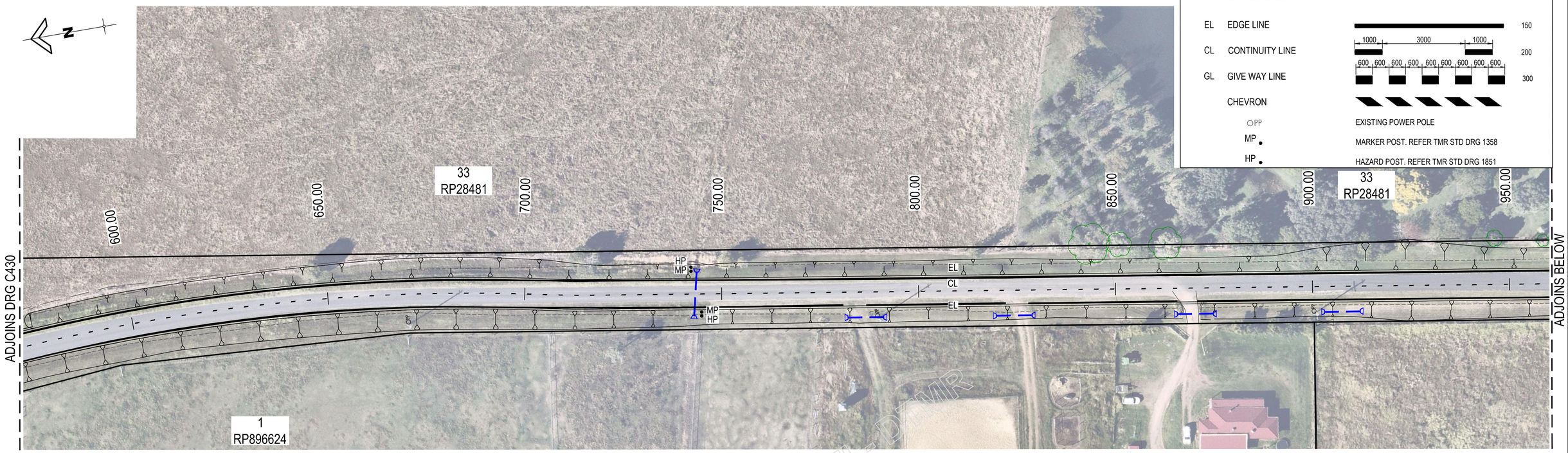
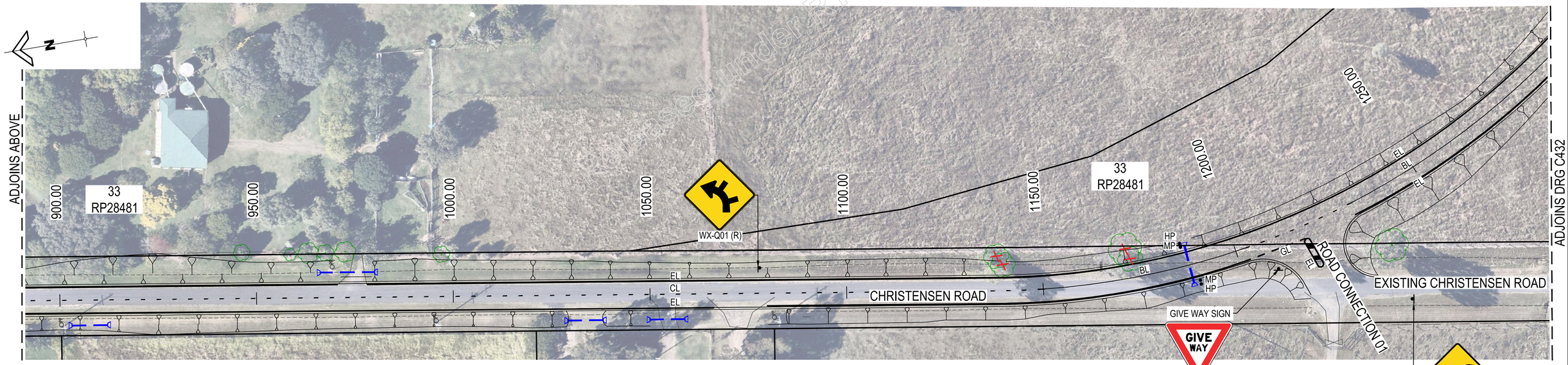


CHRISTENSEN ROAD ROADWORKS PLAN (CH 600.00 - CH 950.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 900.00 - CH 1250.00)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)

HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)

AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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SOUTHPORT PARK QLD 4215
ACN - 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 2 OF 8

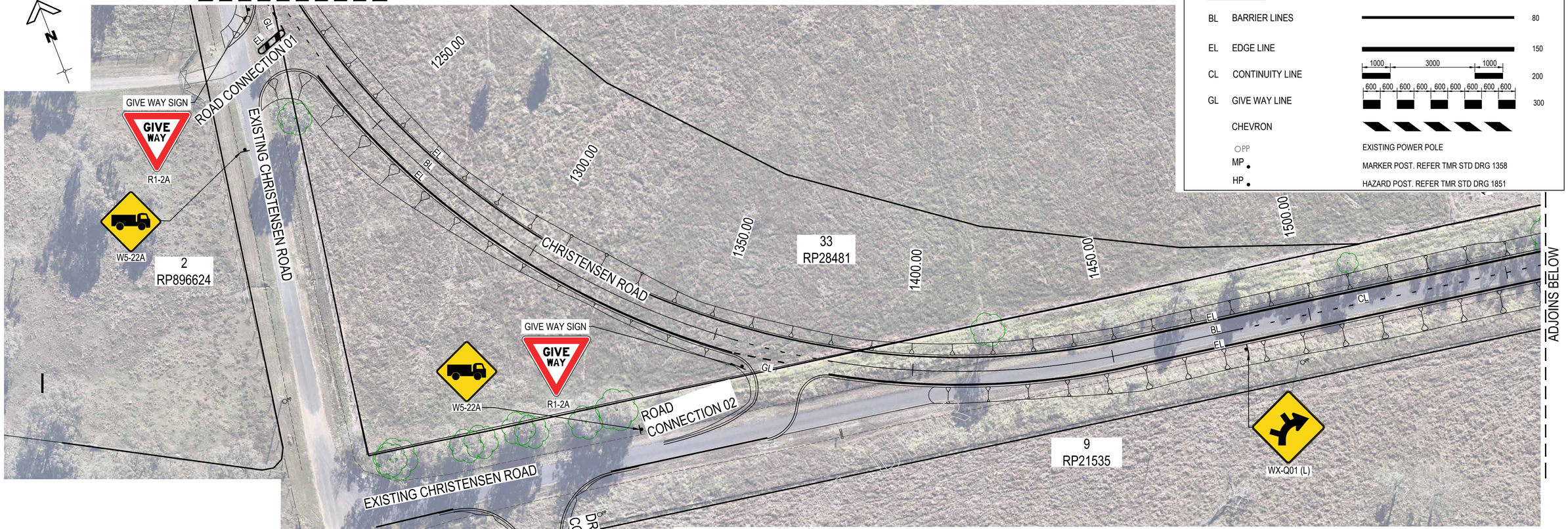
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF
APPROVED ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R RPEQ No. : [redacted]	
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C431 / VERSION: C

FILENAME: N:\Qld\gce_mathman_ltd_as\as0025 - documents\as0025014_info\220220_mt_walker_quarry_access_sd\03_civil\01_DA\Rev A\02_dwg\C431B CHRISTENSEN ROAD SIGNAGE & LINEMARKING PLAN.dwg

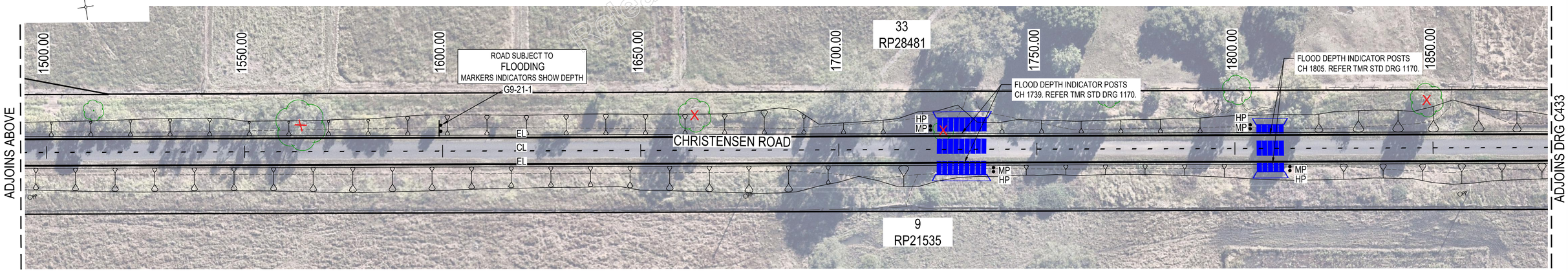
PLOTTED: 21 Mar 2025

RTI-Released under RTI

ADJOINS DRG C431



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1200.00 - CH 1550.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1500.00 - CH 1850.00)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
A/C N/R
M
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 3 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C432	VERSION: C

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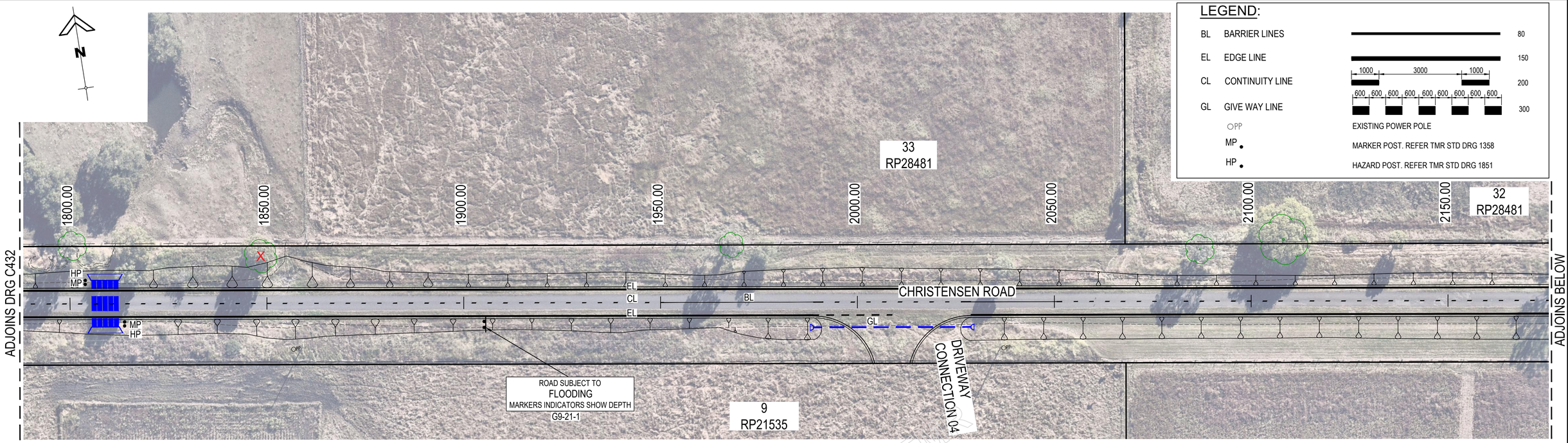
PLOTTED: 21 Mar 2025

Released under RTI



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1800.00 - CH 2150.00)

CHRISTENSEN ROAD ROADWORKS PLAN (CH 2100.00 - CH 2450.00)

ISSUE FOR APPROVAL

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 4 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

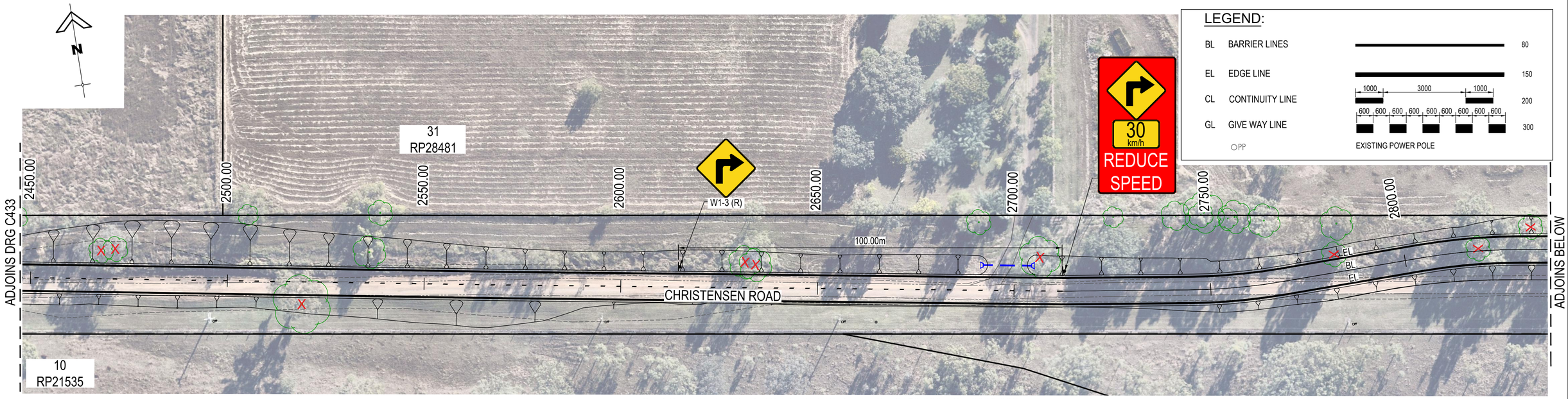
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

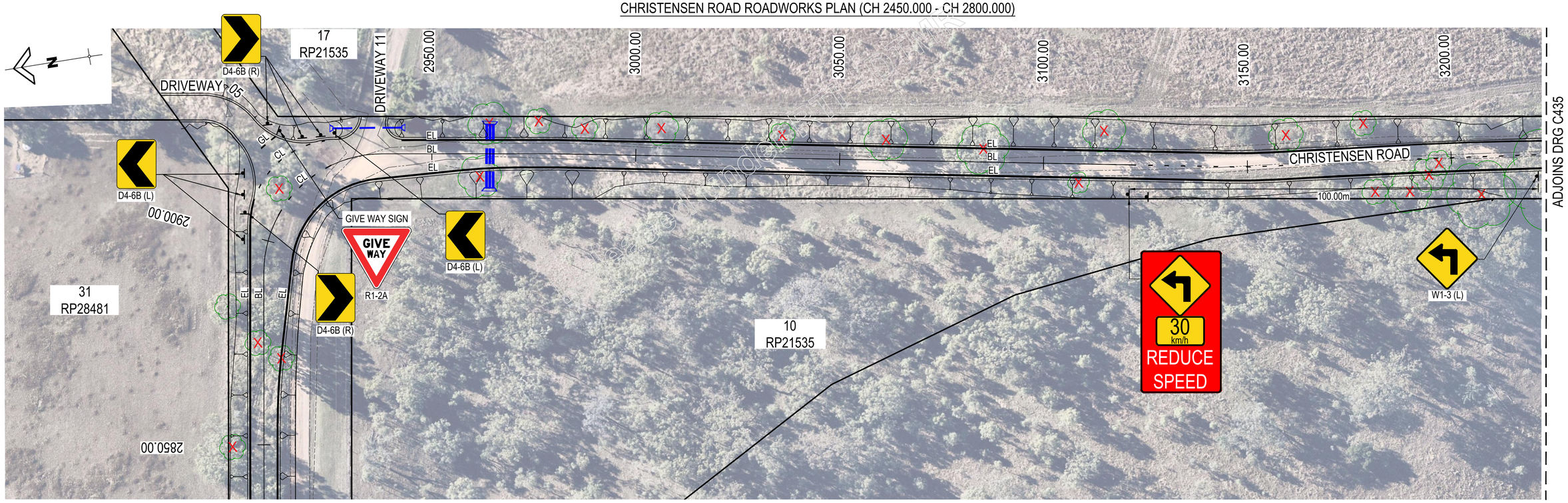
PROJECT No.:	DRAWING No. :	VERSION:
210173P	C433	C

PLOTTED: 21 Mar 2025 FILENAME: N:\Q\Jet walmsley\Mt walker quarry\dwgs\pdf\25 - documents\sub\25104 info\27227 mt walker quarry access rd\03. civil\01. DA\Rev A\A2_draft\C433 CHRISTENSEN ROAD SIGNAGE & LINEMARKING PLAN.dwg

RTI-Release.pdf - Page Number: 119 of 448



CHRISTENSEN ROAD ROADWORKS PLAN (CH 2450.000 - CH 2800.000)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 2850.000 - CH 3200.000)

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SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN 071 130 843
M: N/R
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 5 OF 8

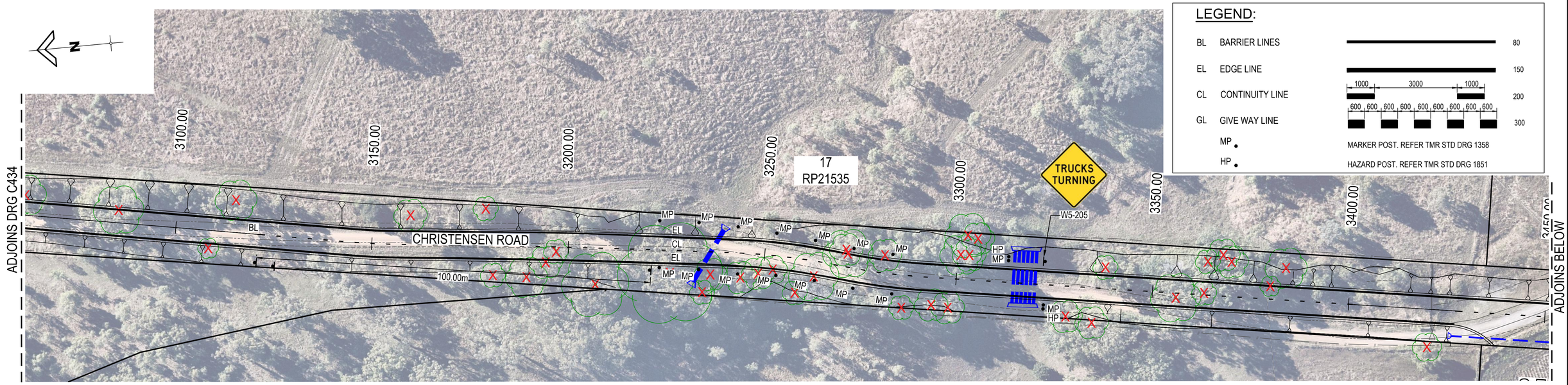
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPR N/R BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

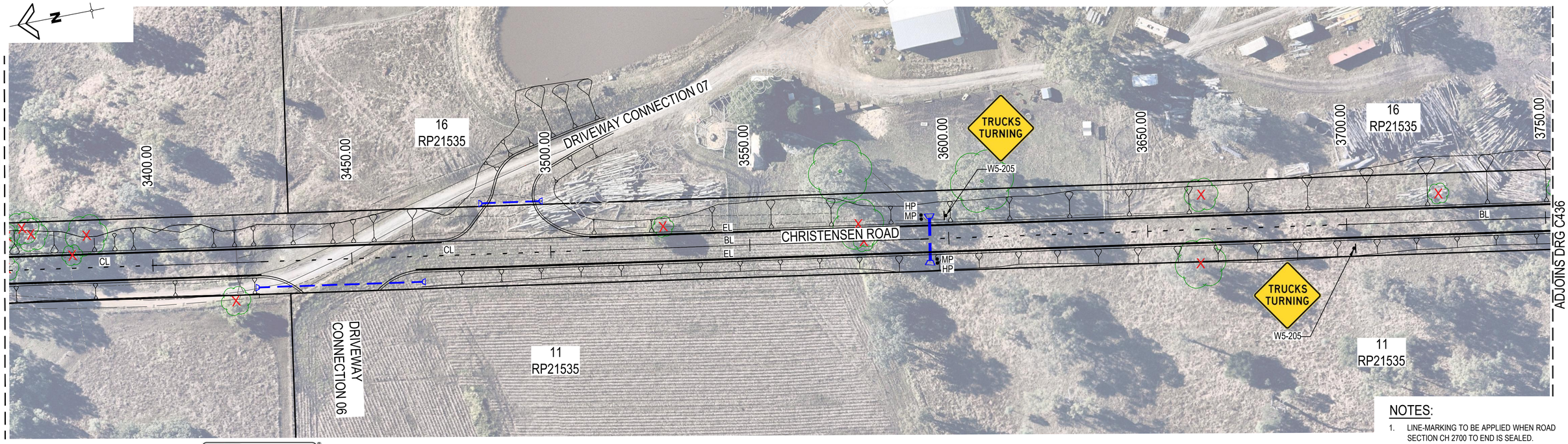
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C434	VERSION: C

FILENAME: N:\Q\qce_vietnam ltd\ca\ca025 - documents\ca025454 (mtq2323)\ gn_other quarry access rd\03_civil\01_DA\Rev A\02_dwg\C434 CHRISTENSEN ROAD SIGNAGE & LINEMARKING PLAN.dwg
PLOTTED: 27 Mar 2025

RTI-Release.pdf - Page Number: 120 of 448



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3000.00 - CH 3350.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3400.00 - CH 3750.00)

NOTES:

1. LINE-MARKING TO BE APPLIED WHEN ROAD SECTION CH 2700 TO END IS SEALED.

VERTICAL SCALE 1:100 (meters)
HORIZONTAL SCALE 1:500 (meters)
AT A1

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN: 671 139 843
M: N/R
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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 6 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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N/R
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C435	C

PLOTTED: 31 Mar 2025
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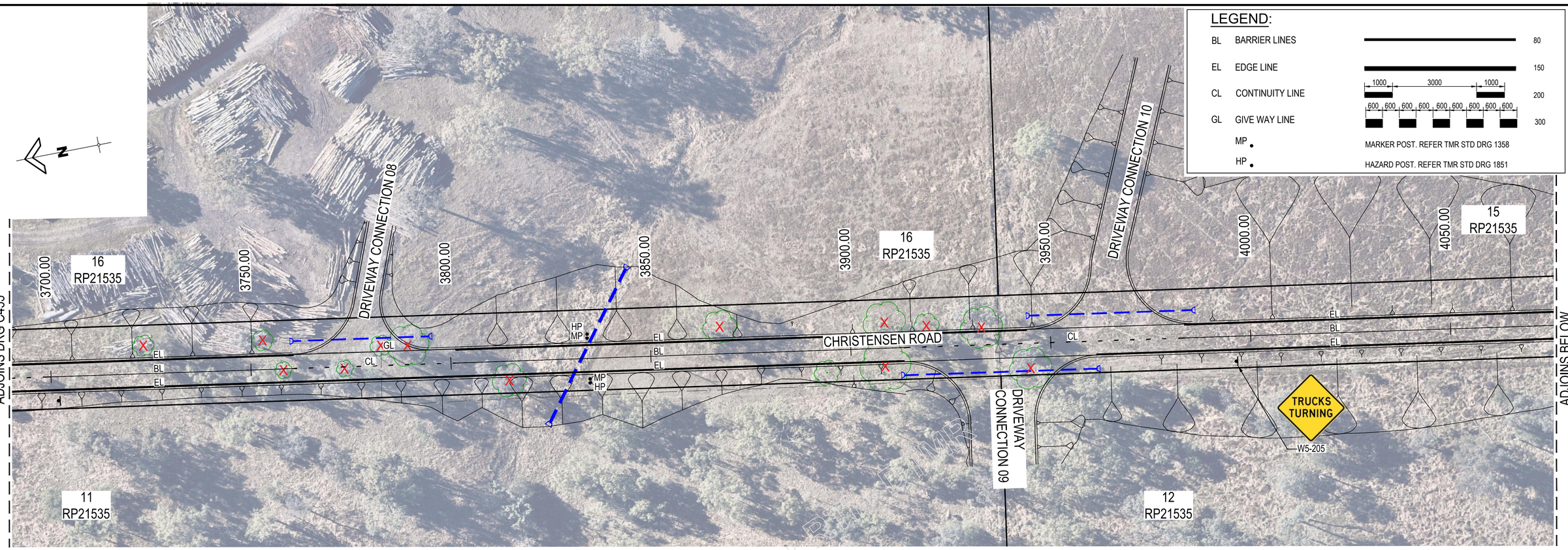
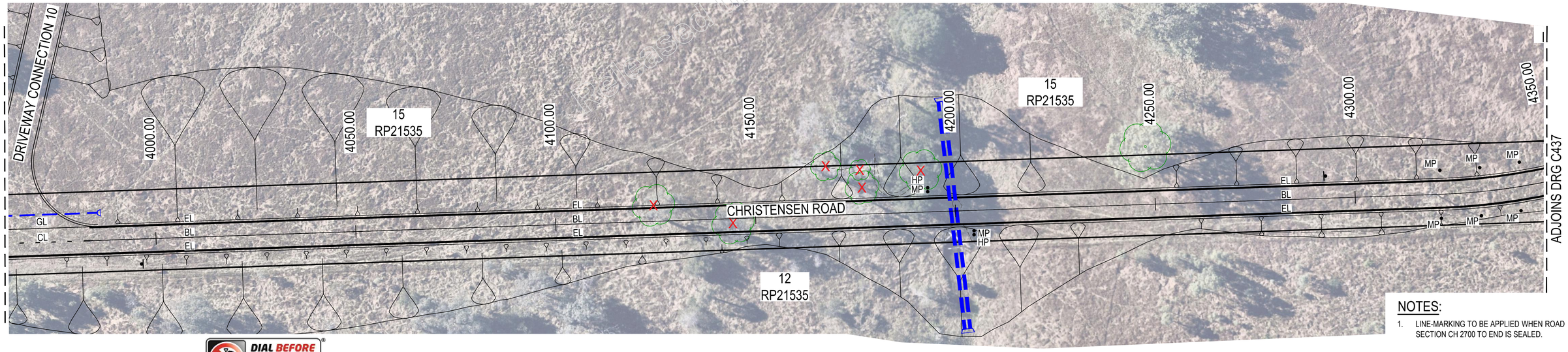
RTI-Release.pdf - Page Number: 121 of 448



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3700.00 - CH 4050.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 4000.00 - CH 4350.00)

NOTES:

1. LINE-MARKING TO BE APPLIED WHEN ROAD SECTION CH 2700 TO END IS SEALED.

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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M : N/R
E : N/R nigel@nfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 7 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C436	C

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PLOTTED: 21 Mar 2025

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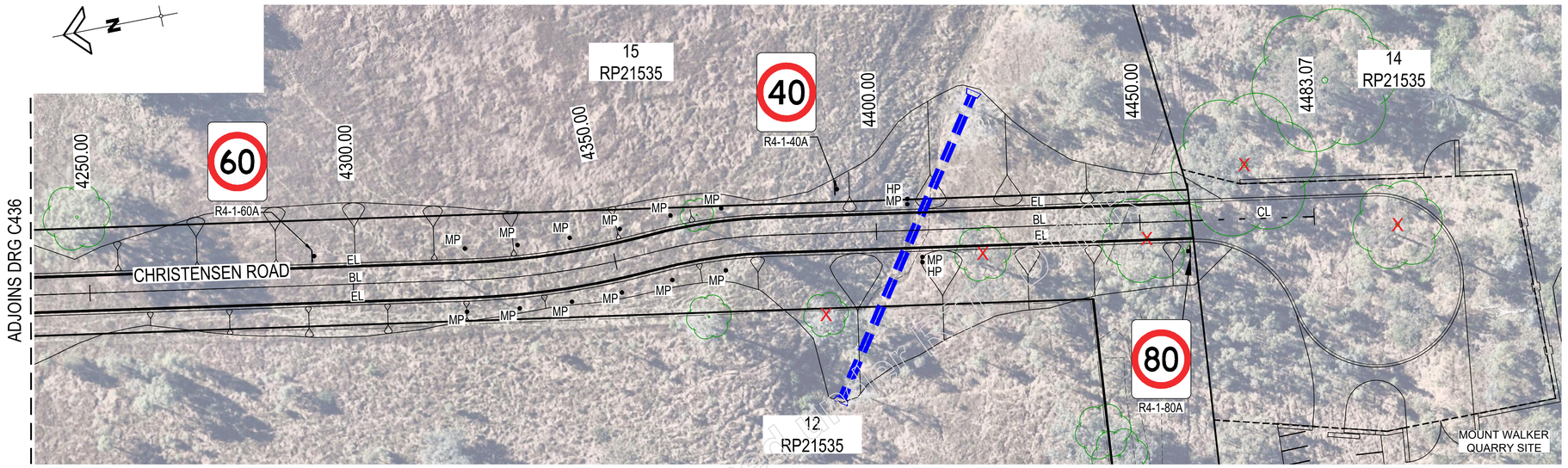

CHRISTENSEN ROAD ROADWORKS PLAN (CH 4250.00 - CH 4483.07)

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LEGEND:

BL	BARRIER LINES	80
EL	EDGE LINE	150
CL	CONTINUITY LINE (1000 / 3000 / 1000)	200
MP	MARKER POST. REFER TMR STD DRG 1358	
HP	HAZARD POST. REFER TMR STD DRG 1851	

NOTES:

1. LINE-MARKING TO BE APPLIED WHEN ROAD SECTION CH 2700 TO END IS SEALED.

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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M N/R
E N/R nigel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
SIGNAGE & LINEMARKING
PLAN SHEET 8 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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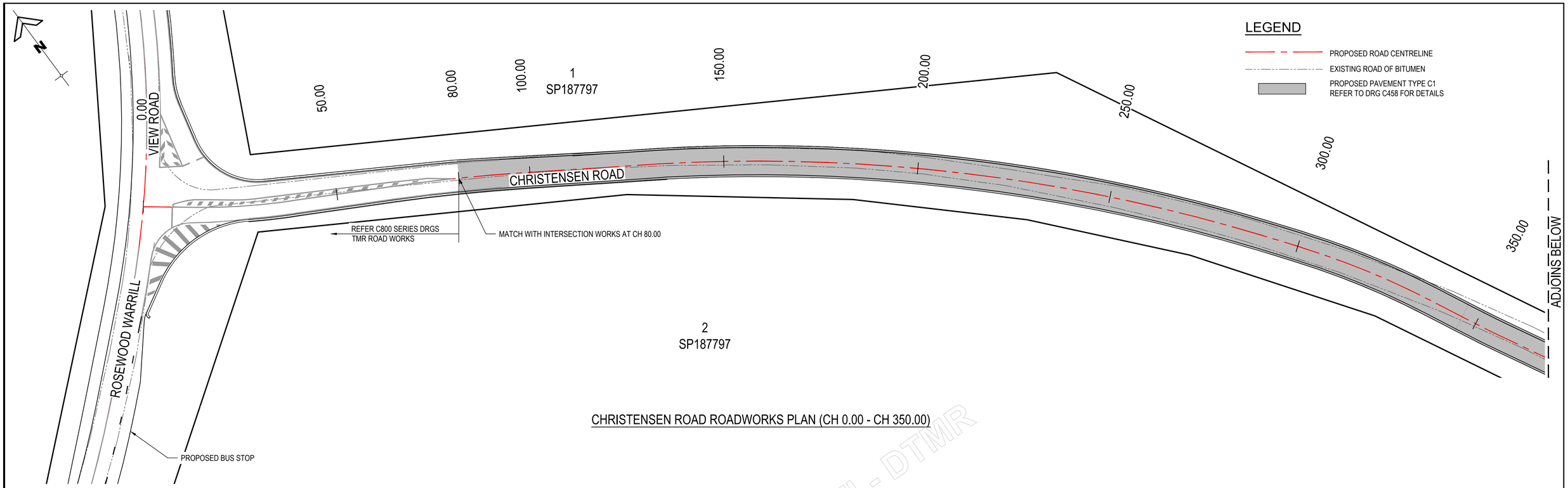
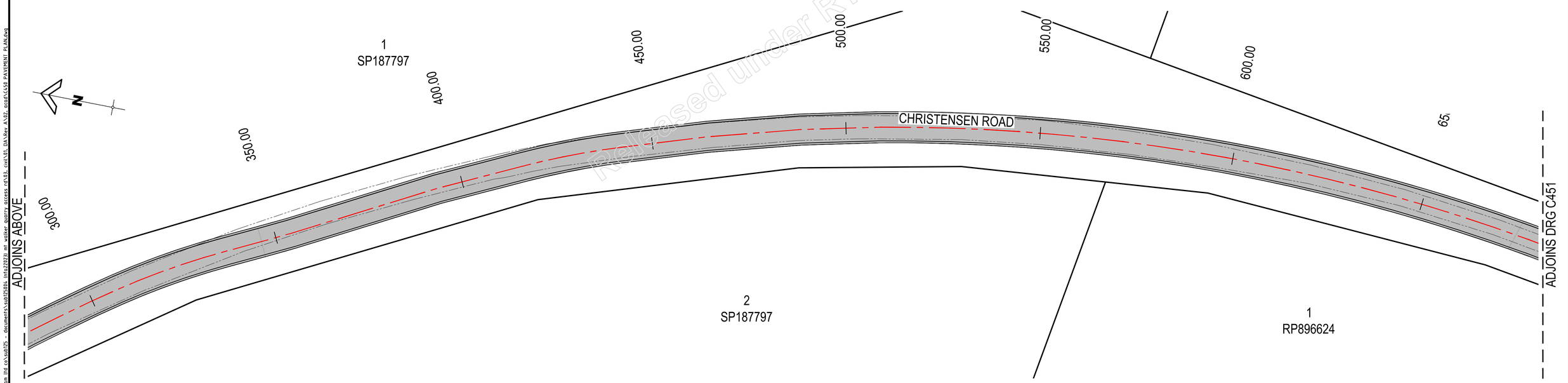
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C437	VERSION: C

PLOTTED: 21 Mar 2025
FILENAME: N:\QA\qa-nathan ltd\ca\ca025 - documents\ca025014 (ntq2323) mt walker quarry access rd\13. civil\01. DA\Rev A\A2. ezdraft\ca38 CHRISTENSEN ROAD SIGNAGE & LINEMARKING PLAN.dwg



CHRISTENSEN ROAD ROADWORKS PLAN (CH 0.00 - CH 350.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 300.00 - CH 650.00)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

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FILENAME: N:\QJ\qt_watmon ltd.ca\qb075 - documents\sub2\5861 info2223\3 mt walker quarry access rd\03. civil\01 DA\dwg A1\P2_cust\C458 PAVEMENT PLAN.dwg
PLOTTED: 21 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN - 671 139 843
M N/R
E N/R nigel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 1 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

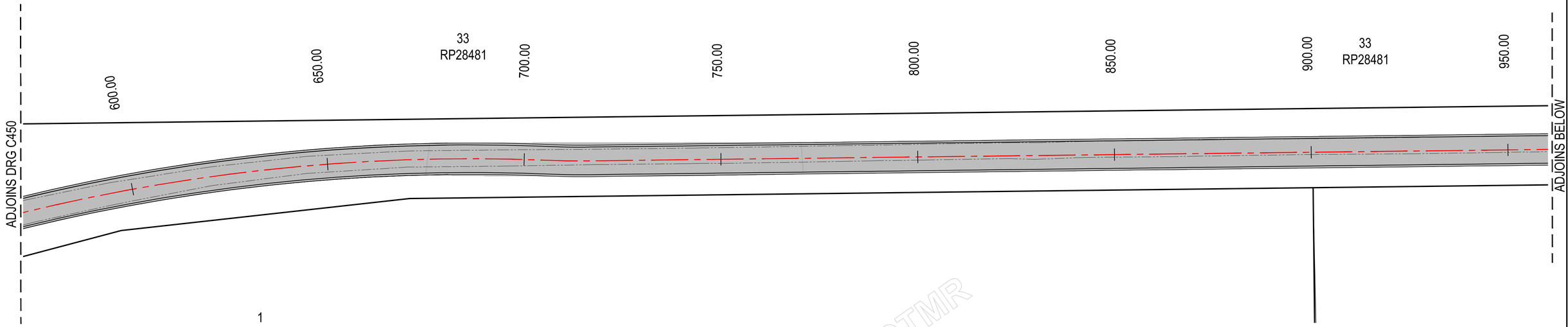
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C450	VERSION: C

LEGEND

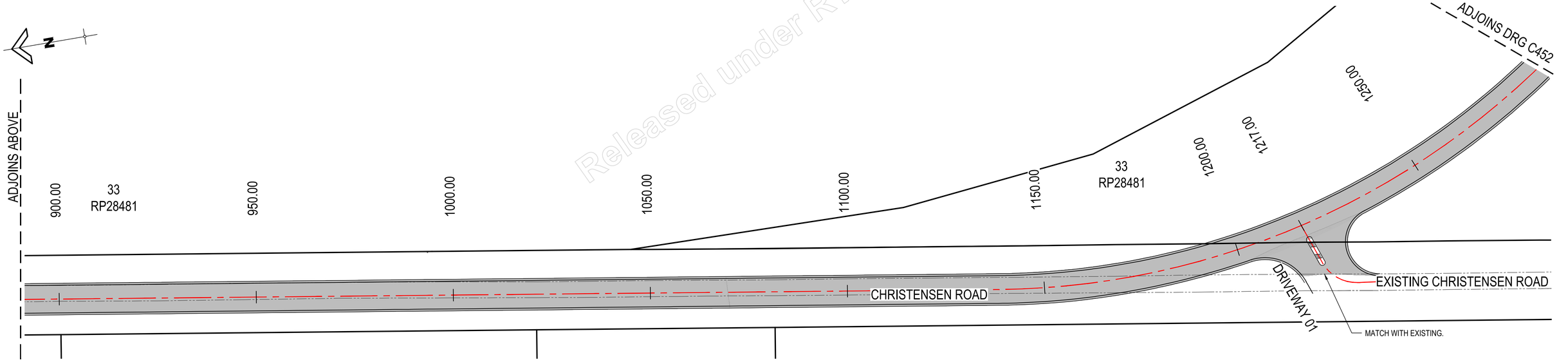
PROPOSED ROAD CENTRELINE

EXISTING ROAD OF BITUMEN

PROPOSED PAVEMENT TYPE C1
REFER TO DRG C458 FOR DETAILS



CHRISTENSEN ROAD ROADWORKS PLAN (CH 600.00 - CH 950.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 900.00 - CH 1250.00)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)

HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)

AT A1

FILENAME: N:\Q\qe vwtmcm ltd co\cbs025 - documents\cbd25414 (rfq22323) mt walker quarry access rd\03. civil\05. DA\Rev A\02. dwg\C450 PAVEMENT PLAN.dwg

PLOTTED: 31 Mar 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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ACN : 671 139 843
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PROJECT:

MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :

CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 2 OF 8

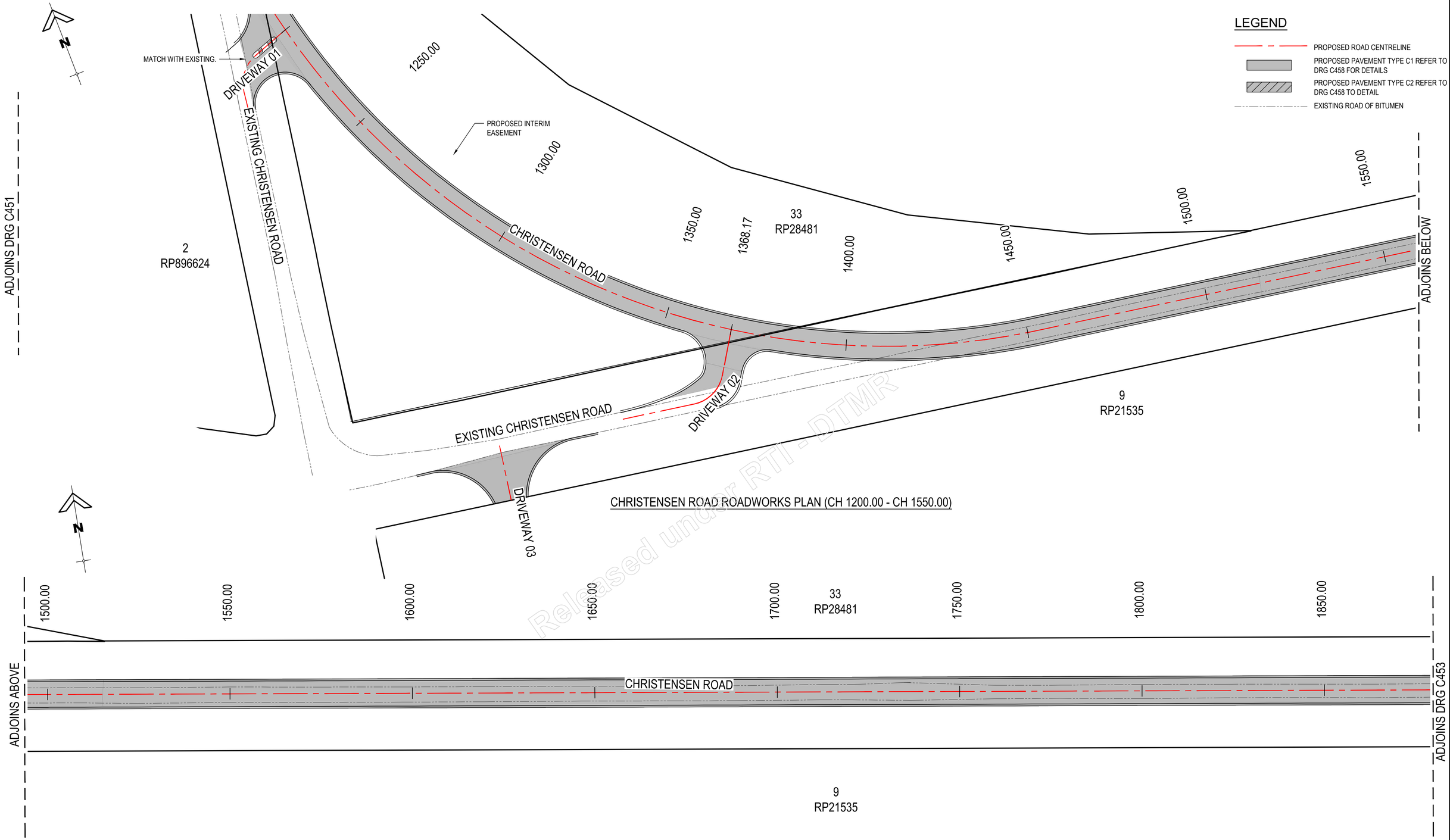
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.

N/R

RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No. : 210173P	DRAWING No. : C451	VERSION: C



Released under RTI - DTMR

ISSUE FOR APPROVAL

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

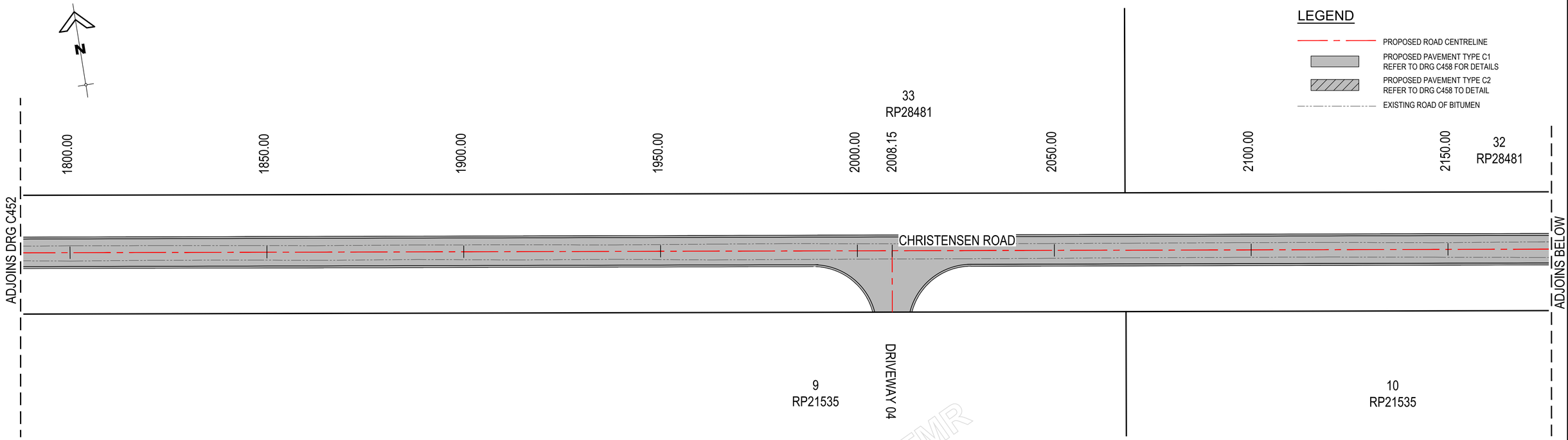
DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 3 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

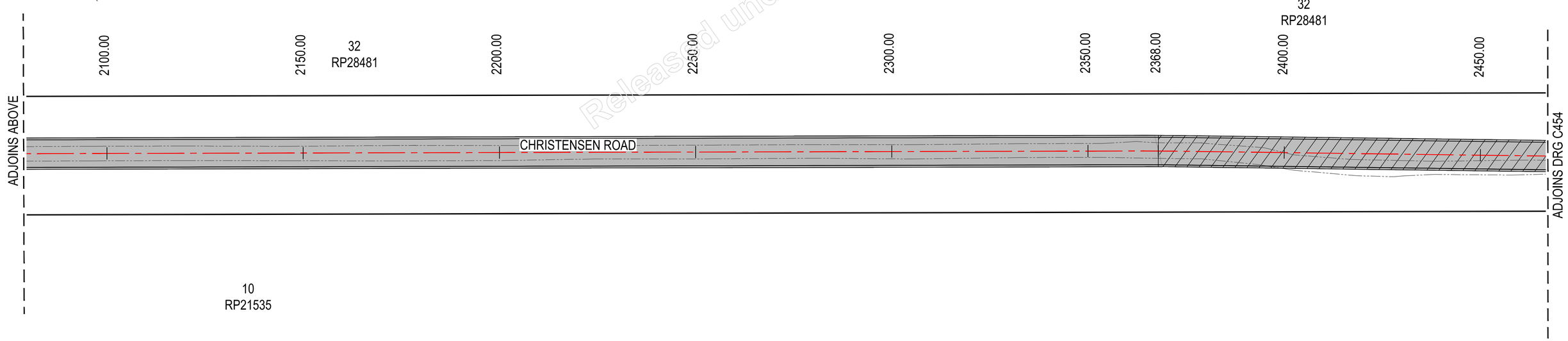
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C452	VERSION: C

PLOTTED: 21 Mar 2025
FILENAME: N:\Qld_Walkom_Ltd_ca\ca025 - documents\ca025184 (nfa22823) mt walker quarry access rd\03. CAD\Civil\ DA\Rev A\02a_ca025_CS3 PAVEMENT PLAN.dwg



CHRISTENSEN ROAD ROADWORKS PLAN (CH 1800.00 - CH 2150.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 2100.00 - CH 2450.00)

ISSUE FOR APPROVAL

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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SOUTHPORT PARK QLD 4215
AC N/R
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 4 OF 8

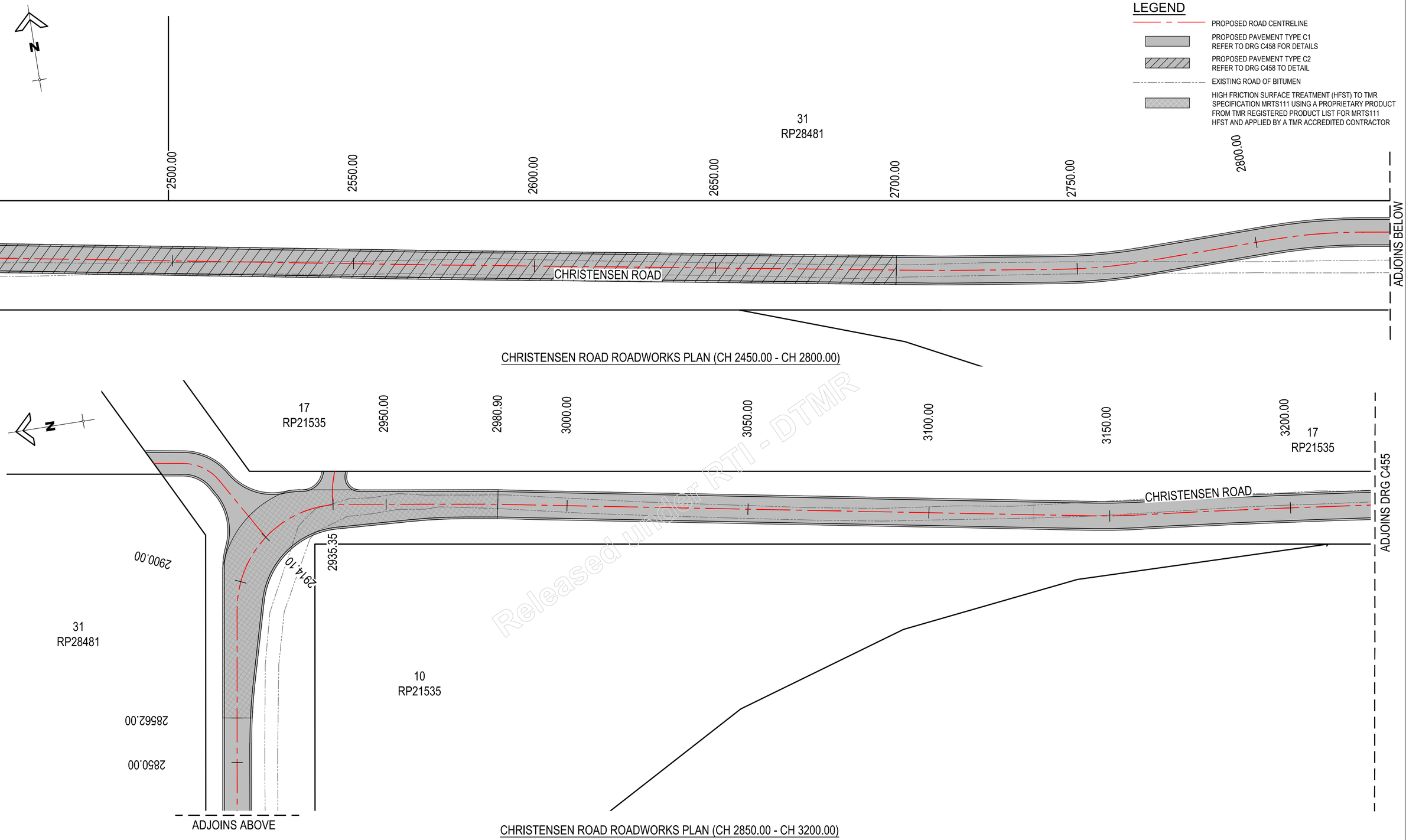
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C453	VERSION: C

FILENAME: N:\GI\qd_workspace_INC\qdi\qd2025 - documents\qdi2025814_info2222@gmail.com\walker quarry access\dwg\C453_christensen road PAVEMENT PLAN.dwg
PLOTTED: 21 Mar 2025

Released under RTI - DTMR



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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 5 OF 8

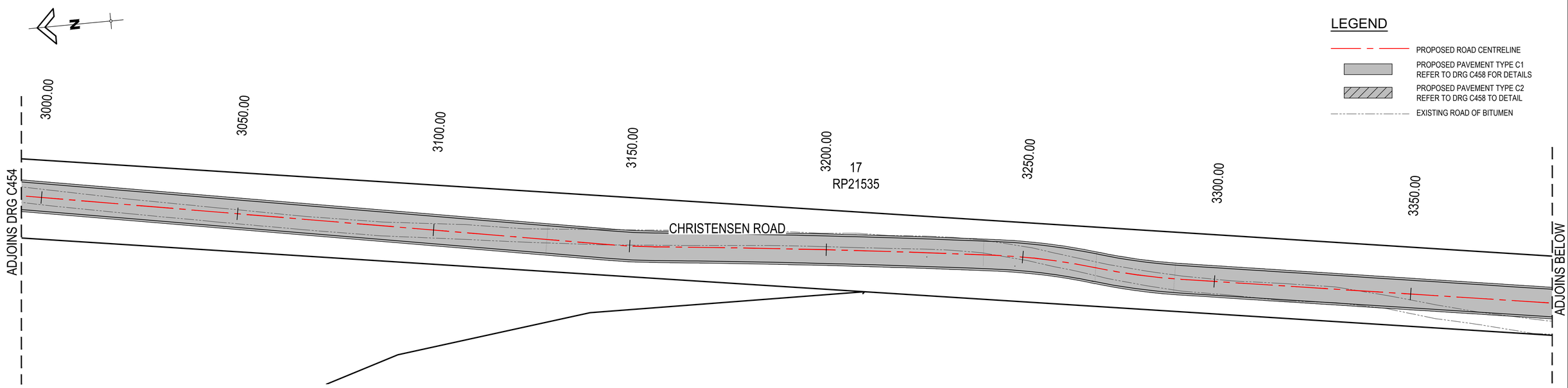
DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

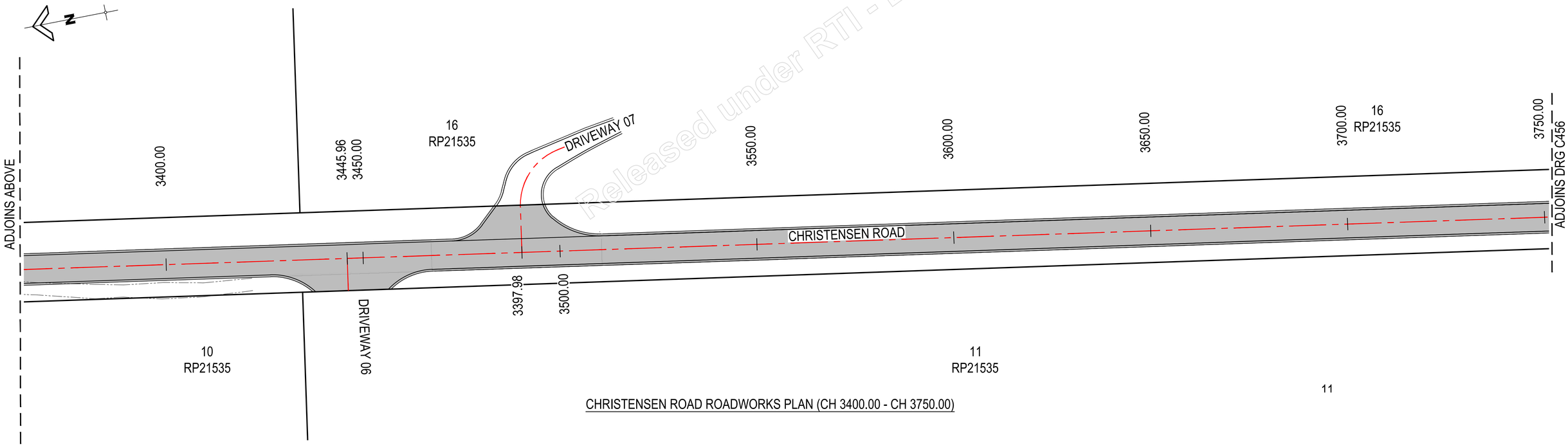
SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C454	C

PLOTTED: 21 Mar 2025
FILENAME: N:\GCE\qcf_walker_mtq_ca\ca0125 - documents\ca0125b1a_into2202\3 mt walker quarry access rd\53_civil\31_DA\Rev A\02_acad\C458 PAVEMENT PLAN.dwg



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3000.00 - CH 3350.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3400.00 - CH 3750.00)

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ISSUE FOR APPROVAL

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 6 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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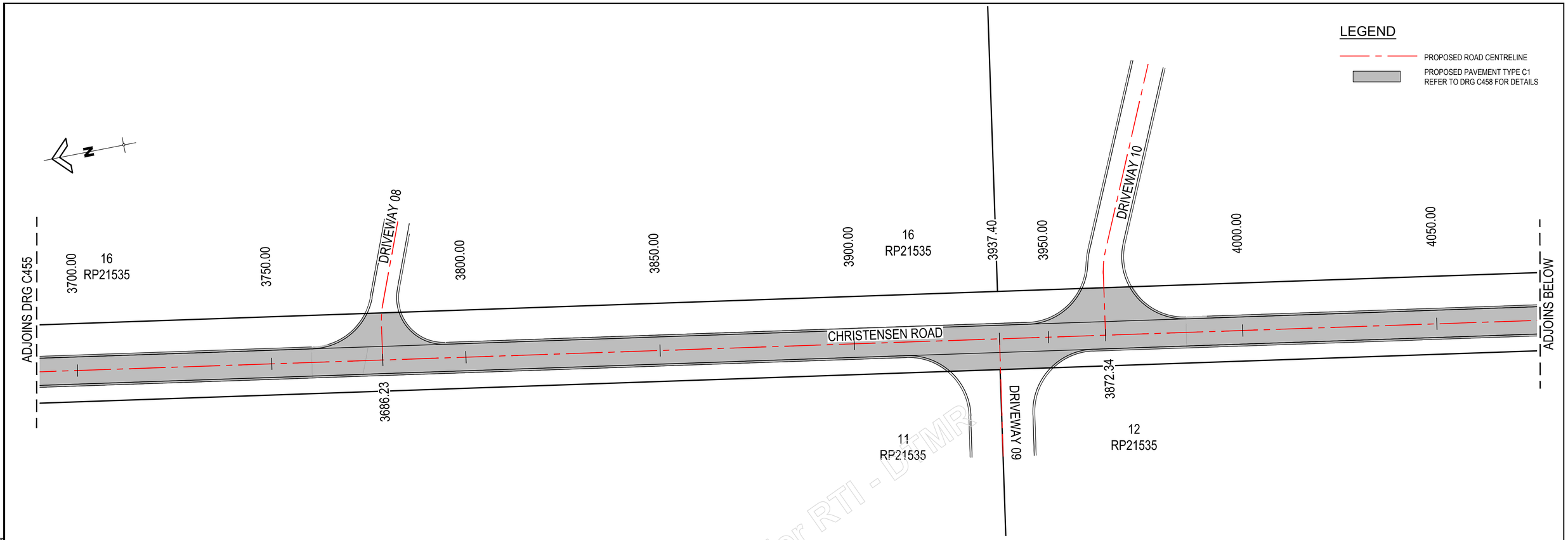
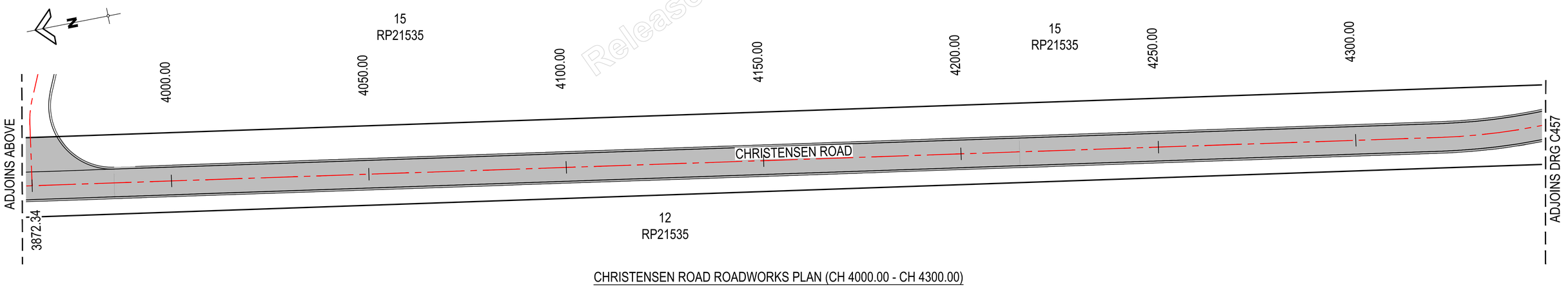
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C455	VERSION: C

FILENAME: N:\Q\qal_walker\Mt_walker_qry_access\210173P\5 - documents\sub\210173P_int\210173P_mt walker quarry access rd\03. civil\01 DA\dwg A3\02. acad\C455 PAVEMENT PLAN.dwg
PLOTTED: 21 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 3700.00 - CH 4050.00)



CHRISTENSEN ROAD ROADWORKS PLAN (CH 4000.00 - CH 4300.00)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

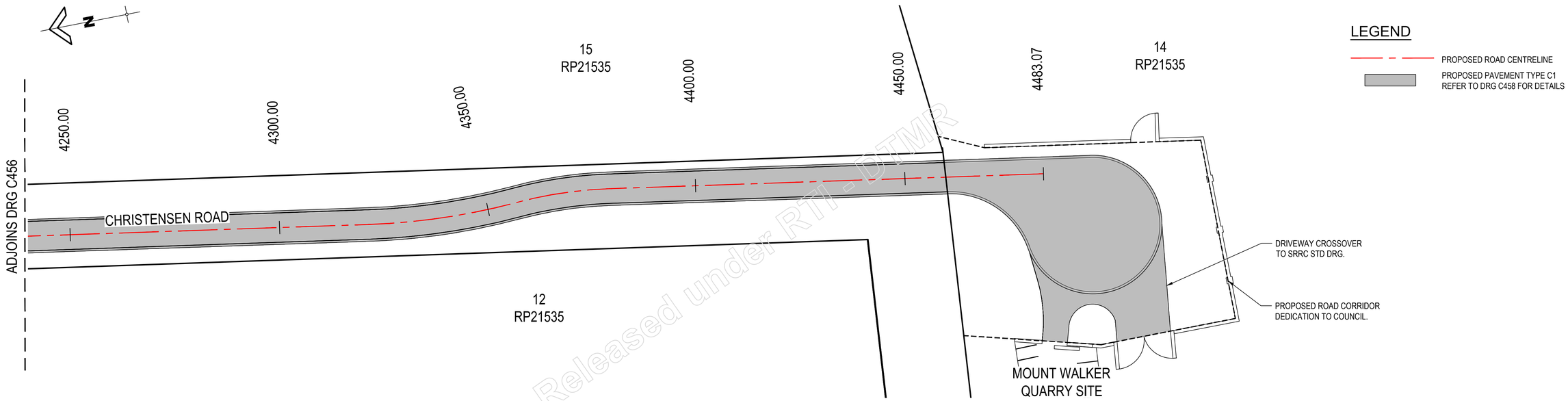
DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 7 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C456	VERSION: C

FILENAME: N:\GCE\qet walmsley ltd.ca\qet075 - documents\qet075016 info\22923 mt walker quarry access rd\03. civil\01 DA\dwg A1\02. cad\C456 PAVEMENT PLAN.dwg
PLOTTED: 21 Mar 2025



CHRISTENSEN ROAD ROADWORKS PLAN (CH 4250.00 - CH 4483.07)

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VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
AC
M : N/R
E : N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD
PAVEMENT PLAN
SHEET 8 OF 8

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

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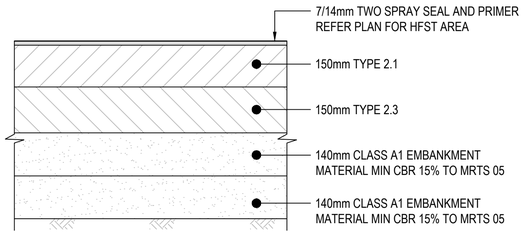
N/R
RPEQ No. : [redacted]

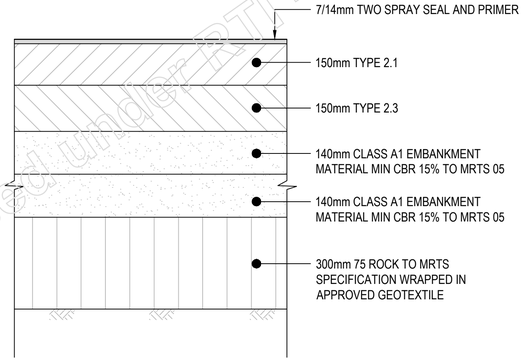
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C457	VERSION: C

FILENAME N:\Qld_vintage_ltd_co\job25 - documents\sub29284 (nfs229283) mt walker quarry access cad\03_civil\01_DA\dwg A1\02_acad\C458 PAVEMENT PLAN.dwg
PLOTTED: 21 Mar 2025



PAVEMENT TYPE C1

6.9X10^6 ESA; ASSUMED SUBGRADE CBR 4%



PAVEMENT TYPE C2

6.9X10^6 ESA; ASSUMED SUBGRADE CBR 2%

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PRELIMINARY PAVEMENT PROFILES :

FINAL PAVEMENT DESIGN SUBJECT TO 5 DAY SOAKED TO CBR TESTS AND GEOTECITNICAL INVESTIGATION REPORT OF THE COMPACTED SUBGRADE SPACING OF SUBGRADE TEST LOCATIONS TO BE APPROVED BY SCENIC RIM REGIONAL COUNCIL.

ISSUE FOR APPROVAL

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	COUNCIL APPROVAL	NF	20.03.25
B	PRE - COUNCIL ISSUE	NF	07.02.25
A	DETAIL DESIGN	NF	24.12.24

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E: N/R@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY
CHRISTENSEN ROAD
UPGRADE

DRAWING TITLE :
CHRISTENSEN ROAD PAVEMENT DETAILS

DEVEL. APPLIC. No. :	DATE : MAY 2024
PROJECT LEADER : NF	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NF

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C458	VERSION: C

PLOTTED: 21 Mar 2025
FILENAME: N:\Qld_w\mwm ltd\ds\wd25 - documents\wd25045 (mt#27923) mt walker quarry access rd\03_civil\01_DA\dwg A\02_acad\CS58 CHRISTENSEN ROAD PAVEMENT DETAIL.dwg

Land Title Act 1994; Land Act 1994
Form 21 Version 3

SURVEY PLAN

Sheet 1 of 1

REFERENCE MARKS

STN	TO	ORIGIN	BEARING	DIST
1	O Nail in Culvert	RP845580	45°24'20"	9·508
1a	O GI Nail in Bit gone	10/RP896624	126°37'45"	9·339
2	OIP	6/RP145876	9°07'35"	2·0
3	OIP	4/RP145876	9°07'35"	1·0
3	GI Nail in Bit		269°41'45"	32·865
4	Pin		197°35'	1·99
5	Screw in Culvert		205°33'	25·355
6	Pin		274°43'	0·71
7	Pin		125°36'	1·46
8	OIP	IS119991	169°00'20"	11·286

PERMANENT MARKS

PM	ORIGIN	BEARING	DIST	NO	
1–OPM	SP157304	223°38'25"	2962·47	145345	New Conn
3–OPM	SP145210	5°54'05"	1425·66	84499	New Conn

Original Information compiled from RP28481 in the Department of Natural Resources and Mines

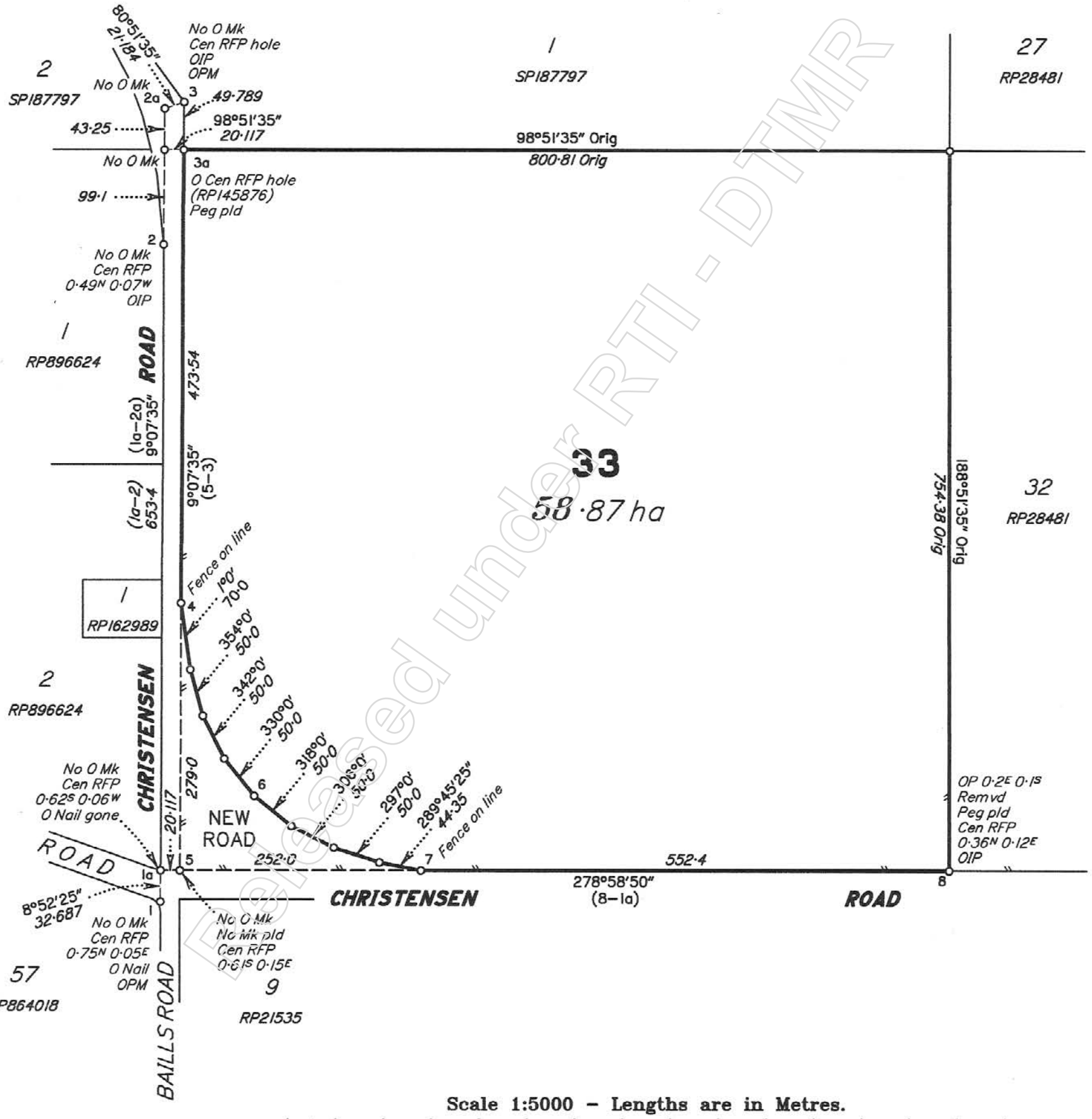
Peg placed at all new corners, unless otherwise stated.

N

Area of New Road

(4–6–7–5–4)

1·601 ha



Scale 1:5000 – Lengths are in Metres.

50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

0 50mm 100mm 150mm

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B Surveyed Pty Ltd (A.C.N. 607 422 293) hereby certify that the land comprised in this plan was surveyed by the corporation, by Jason Andrew HACK, Surveying Associate, for whose work the corporation accepts responsibility, under the supervision of James Molesworth GOODWIN, Cadastral Surveyor, and that the plan is accurate, that the said survey was performed in accordance with the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the said survey was c

7-12-2015

Date

N/R

Plan of Lot 33

Cancelling Lot 33 on RP28481

LOCAL GOVERNMENT: SCENIC RIM REGIONAL COUNCIL LOCALITY: Mount Walker

Meridian: MGA (Vide GNSS)

Survey Records: No

Scale: 1:5000

Format: STANDARD

SP284187

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(Dealing No.)

WARNING : Folded or Mutilated Plans will not be accepted.
Plans may be rolled.
Information may not be placed in the outer margins.

5. Lodged by

(Include address, phone number, reference, and Lodger Code)

1. Certificate of Registered Owners or Lessees.

I/We [redacted] N/R

.....

.....

.....

.....

(Names in full)

* as Registered Owners of this land agree to this plan and dedicate the Public Use Land as shown hereon in accordance with Section 50 of the Land Title Act 1994.

~~* as Lessees of this land agree to this plan.~~

.....

Signature of *Registered Ow [redacted] N/R

* Rule out whichever is inapplicable

2. Planning Body Approval.

* .....

hereby approves this plan in accordance with the :

%

Dated this ..... day of .....

..... #

..... #

* Insert the name of the Planning Body.
# Insert designation of signatory or delegation
% Insert applicable approving legislation.

3. Plans with Community Management Statement :

CMS Number :

Name :

4. References :

Dept File :

Local Govt :

Surveyor : bsj3046

6.

Existing		Created		
Title Reference	Description	New Lots	Road	Secondary Interests
11084152	Lot 33 on RP28481	33	New Rd	———

Reinstatement Report

Stations 1, 2, 3 and 8 are in agreement with survey plan ISI19991 with the corners and lines being fixed using the original marks located off & near original corners.

Station 1a was reinstated 8°52'55" for 32.687 from station 1 (RP28481 calc connection).

Station 5 reinstated along line 1a – 8 for road width. This leaves excess 0.01 in line 5 – 8.

Stations 3a reinstated along line 3 – 5 for deed distance from station 3. This leaves excess of 0.172 in line 3a – 5.

33	POR N7
Lots	Orig

7. Orig Grant Allocation :

8. Map Reference :
9442–34411

9. Parish :

10. County :

11. Passed & Endorsed :

By : N/R

Date : 7-12-[illegible]

Signed :

Designation : [illegible] N/R

12. Building Format Plans only.

I certify that :

* As far as it is practical to determine, no part of the building shown on this plan encroaches onto adjoining lots or road;

* Part of the building shown on this plan encroaches onto adjoining * lots and road

....

Cadastral Surveyor/Director* Date

*delete words not required

13. Lodgement Fees :

Survey Deposit	$.....
Lodgement	$.....
.....New Titles	$.....
Photocopy	$.....
Postage	$.....
TOTAL	$.....

14. Insert Plan Number **SP284187**

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CONNOR O'MEARA
solicitors

Our Ref: N/R

20 March 2025

N/R
BY EMAIL

Dear Mr N/R

Mount Walker Quarry – Hinrichsen Road, Coleyville

We have been asked to confirm whether part of a road design prepared by traffic engineers PPT, depicted in **Figure 1** below, complies with the requirements of a development approval for land at Coleyville.

Background

On 26 April 2016, a development approval *("Development Approval")* was given in relation to land at Hinrichsen Road, Coleyville (*"the Land"*).

The Land:

1. Is described as Lot 14 on RP21535;
2. comprises approximately 100.58 hectares; and
3. obtains vehicular access from Hinrichsen road via Christensen Road to Rosewood-Warrill View Road.

The Development Approval:

1. was given by the Scenic Rim Regional Council on 26 April 2016;
2. remains extant; and

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level 22 69 ann street
gpo box 2239 brisbane 4001
e mail@connoromeara.com.au
w www.connoromeara.com
t 07 3221 3033

3. was for a material change of use for a quarry which authorised up to 1,2000,000 tonnes of quarry material to be extracted and hauled annually.

The Development Approval contained a series of conditions, including Condition 20 which is reproduced below:

> *"20) **UPGRADING OF CHRISTENSEN ROAD** - The section of Christensen Road from its intersection with Rosewood-Warrill View Road to the site access is to be designed and constructed to a 4A standard in accordance with all parts of the Austroads "Guide to Road Design" and Scenic Rim Regional Council Standard Drawing R-10. The design and construction of the road works shall include all necessary pavement works, drainage works, traffic signage and guardrails as and where required. Signage is to comply with the Manual of Uniform Traffic Control Devices – MUTCD.*
>
> *An appropriate turn around shall be provided for a B-Double at the end of the road within the road reserve.*
>
> *Detailed design by a qualified RPEQ will be submitted prior to the construction as part of a pre-construction lodgement process with Council.*
>
> *No work is to commence on site unless approved by Council through the pre-lodgement process and as part of an application for "Constructing or Interfering with a Road or its Operation".*
>
> *The construction of the haul route must be completed prior to the commencement of commercial operations.*
>
> *Quarrying activities may commence on site for the provision of construction materials for the haul route prior to the commencement of commercial operations."*

During the course of the development application, it was contemplated that the existing alignment of Hinrichsen and Christensen Roads, near their intersection with one another, may have to be substantially altered, and that would mean that private land would have to be dedicated as new road to facilitate that outcome.

However, given the terms of Condition 20 and further investigations undertaken by traffic engineers PTT, it has been concluded any changes

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to the existing road alignment can be accommodated within the existing road reserve.

Figure 1 below shows the extent and nature of the works at the intersection of Hinrichsen and Christensen Roads recommended by PTT.

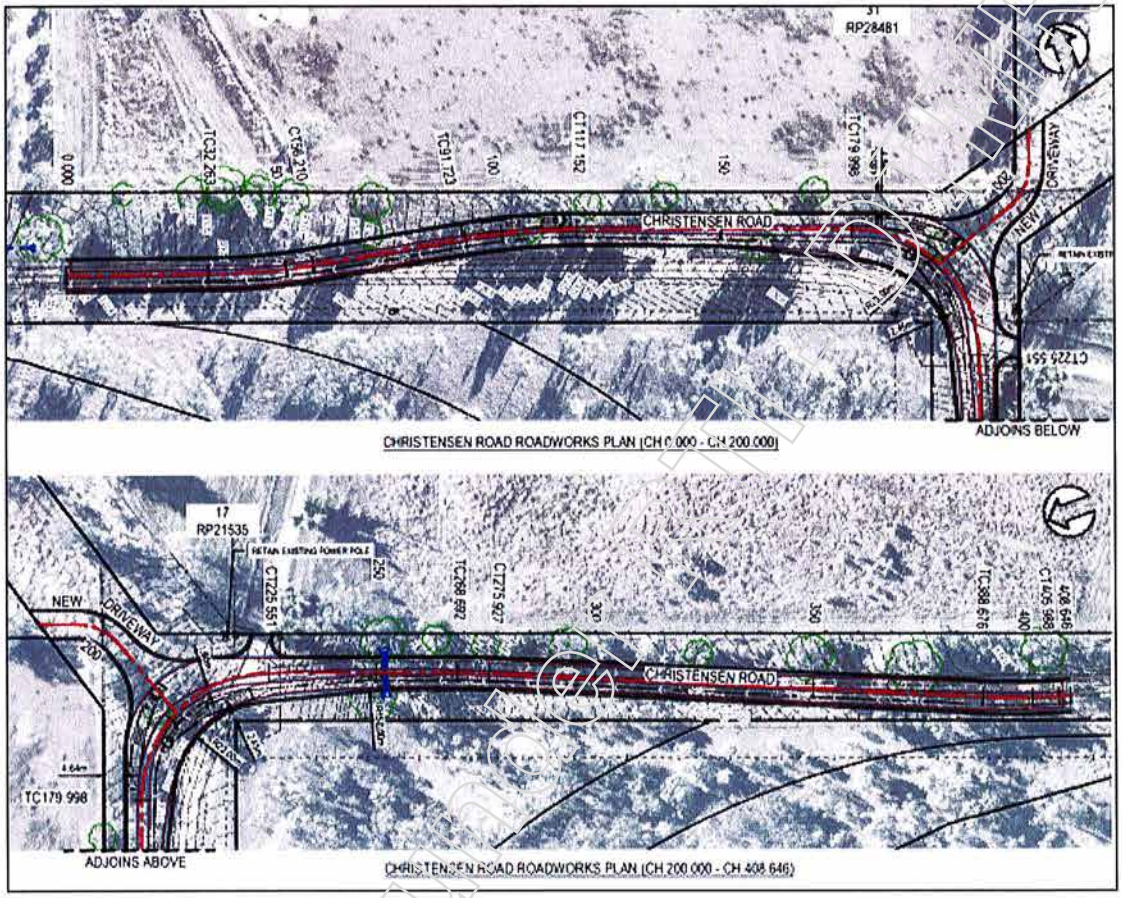

Figure 1

The TTM report reporting about the design is contained in **Annexure "A"** (*"TTM Report"*).

Some additional features of the road design include:

1. a 90-degree curve between Christensen Road and Hinrichsen Road comprising a 30m centre-line radius curve;

2. pavement widening on the bend; and

3. provision for the existing access driveways.

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Some principles of construction of development approvals and development conditions

Because a failure to comply with a development condition is a development offence[1] and development conditions have the force of law, jurisprudence has been developed about the way development conditions should be construed and relevant elements of that jurisprudence is discussed below.

Development conditions must be interpreted in accordance with their language and terms, regardless of whether or not that coincides with what the author of the condition intended.

Also, in construing the meaning of a development conditions, reference can be had to the terms of the development approval itself, but normally reference to extrinsic material, including the development application and the material produced as part of the application process is not material to which reference can be had in construing the development approval

What is Austroads?

Given Condition 20 requires the road design to be in accordance with Austroads *"Guide to Road Design"*, it is helpful to understand what that means.

The Guide to Road Design (*"Austroads"* and also *"GRD"*) is *"...a set of comprehensive Austroads guides developed to provide a primary national reference for the development of safe, economical and efficient road design solutions."*

Austroads also makes it clear that:

> *"Although local conditions and circumstances may sometimes require unique or innovative approaches to design, the bulk of works can be well accommodated by the approach outlined in the Guide to Road Design."*

In addition, Austroads provides:

> *"The GRD is aimed primarily at practitioners with responsibilities for the design of roads. The guide deals with the geometric elements of the road, together with relevant drainage and roadside considerations."*

---

[1] *Planning Act 2016*, section 164.

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It is also said:

> *"It is expected that for the experienced engineer or practitioner, the guide will provide the necessary key information and provide direction where deviations from the guidelines are required."*

In relation to Part 4 Austroads says:

> *"Part 4: Intersections and Crossings: General contains guidance that provides road designers and other practitioners with information that is common to the geometric design of all at-grade intersections. The guide needs to be used in conjunction with Part 4A, Part 4B and Part 4C, which are the other parts of the Guide to Road Design that relate to the design of intersections."*

Austroads says this about Part 4 A:

> *"Part 4A: Unsignalised and Signalised Intersections provides road practitioners with guidance on the detailed geometric design of all at-grade intersections (excluding roundabouts)."*

In relation to the Design Criteria in Part 4 A, Austroads says:

> *"AGRD Part 4 defines greenfield and brownfield sites within the context of road design, and suggests that in most cases the application of normal design domain (NDD) values will be suitable for both. However, it is also acknowledged that situations will arise where it may not always be practical or possible to achieve all the relevant NDD values (e.g. in constrained locations), in which case road agencies may consider the use of values outside of the NDD values.*
>
> *The body of this Part contains NDD values that should be used for the design of all unsignalised and signalised intersections, including new intersections on new or existing roads, and modifications to existing intersections. Appendix A contains extended design domain (EDD) values that relate to intersection design, and through research and/or operating experience, have been found to provide a suitable solution in constrained situations. EDD values have only been developed for particular parameters, where considerable latitude exists within the NDD values. Using values outside of the normal design domain (NDD) requires evidence that adopting the design value will not compromise the safety performance."*

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The PTT Report – Road Design

The PTT Report, attached, says this about the intersection design:

> *"The Austroads Guide to Road Design Part 3 highlights the importance of maintaining a consistent rural road geometry and a road alignment that meets driver expectations. However, it acknowledges that it is not always practical to achieve consistent road geometry and a uniform operating speed and that it is acceptable to have isolated geometric features that are inconsistent with the desired speed. Isolated geometric features can include a 'tight' horizontal curve or an intersection controlled by a stop or give-way sign.*
>
> *The proposed curve in the major road alignment at the Christensen Road / Hinrichsen Road intersection would result in a significant reduction in vehicle operating speeds. This speed reduction would be outside of the typical desirable speed range based on the Austroads Operating Speed model. However, our reading of the Austroads guide suggests that while tight radius curves are typically avoided whenever possible, they may be used when necessary due to terrain constraints or existing infrastructure limitations, provided appropriate mitigation strategies are adopted.*
>
> *To mitigate the potential safety and operational impacts associated with the tight radius curve, the following mitigation measures would be required:*
>
> - *Reduction in Operating Speed: vehicle speeds must be significantly reduced before the curve. Therefore, it is recommended that 'curve ahead' signage in conjunction with a 'reduce speed' sign and an advisory speed plate. Chevron alignment markings (CAMs) would also need to be placed on the outside of the bend to help indicate the presence and severity of the curve.*
> - *High Superelevation: a superelevation on the curve in the order of 5-7% would be required to counteract the lateral forces and maintain vehicle stability.*
> - *Curve Widening: widening on the bend would be required to allow for heavy vehicle passing (given their wider tracking paths).*
> - *Pavement Treatment: use of a high-friction surface treatment to improve vehicle grip and reduce the risk of skidding.*

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In addition, the traffic volumes on the sections of Christensen Road and Hinrichsen Road are very low, which reduces the risk exposure and provides some additional flexibility in the design approach. Given the intersection's location at the end of a rural access street, the curve would predominantly serve regular users familiar with the road environment."

Discussion – Does the PTT Design Comply with Condition 20?

The starting point of our analysis is the language of Condition 20 itself and the meaning of the words:

> *"The section of Christensen Road from its intersection with Rosewood-Warrill View Road to the site access is to be designed and constructed to a 4A standard in accordance with all parts of the Austroads Guide to Road Design and Scenic Rim Regional Council Standard Drawing R-10 and Scenic Rim Regional Council Standard Drawing R-10."*

Putting to one side *Council Standard Drawing R-10* the question becomes what is a design to a 4A standard in accordance with all parts of Austroads.

It is assumed that reference to a *"4A standard"* is a reference to Part 4A of Austroads which relates to unsignalised intersections.

There are a few features of Austroads, including Part 4A, that are relevant for present purposes.

First, Austroads is a comprehensive guide to road design, including rural roads, in Australia. However, Austroads by its nature does not set prescriptive outcomes or standards for that design and that feature is reinforced by part 4A itself which says that Part 4A *"provides road designers...with guidance on the detailed geometric designs of all at-grade intersections (excluding roundabouts). "*

To reinforce that point, a feature of Part 4A is the identification of normal design domain (*"NDD"*) values which are considered in intersection design, but even then Austroads says:

> *"However, it is acknowledged that situations will arise where it may not always be practical or possible to achieve all the relevant NDD values (e.g. in constrained locations), in which case road agencies may consider the use of values outside the NDD values".*

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Secondly, the TTM Report explains that Mr N/R a Registered Professional Engineer Queensland, has considered all parts of Austroads and has arrived at a design which adopts the guidance in Part 4A and he concludes:

> *"In our view, the tight horizontal curve at the Christensen Road and Hinrichsen Road intersection is designed in accordance with Austroads...thereby satisfying the requirements of Condition 20."*

Thirdly, given the above and Mr N/R views, the design meets the requirement of Condition 20. Condition 20, by adopting Austroads, builds in the prospect of flexibility and engineering judgement to the ultimate design outcome.

Conclusion

The road design in Figure 1 complies with Condition 20.

Yours faithfully
CONNOR O'MEARA

N/R

"Liability limited by a scheme approved under professional standards legislation"

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From: N/R
To: SCR Corridor and Land Management Inbox
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()
Date: Tuesday, 8 April 2025 9:17:19 AM
Attachments: image002.png
image003.png
image004.png
image005.png

Hi Emily,

All documents have now been uploaded to the link you provided. They are contained within the folder "Christensen Road Submission Docs"

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Sent: Monday, April 7, 2025 2:22 PM
To N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Thank you for your recent email.

Unfortunately, we are unable to download files from a zip folder. To facilitate the process, I have provided access to a secure folder on OneDrive.

N/R

Could you please upload the necessary documents to this folder at your earliest convenience?

Thank you for your cooperation.

Emily Spencer

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Administration Support Officer (Corridor and Land Management) | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

Phone: 07 5563 6404
Email: scr.calm@tmr.qld.gov.au
Website: www.tmr.qld.gov.au
Address: Floor G | 36-38 Cotton Street | Nerang Qld 4211

From: N/R @gcecontractors.com>
Sent: Tuesday, 1 April 2025 12:40 PM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Good afternoon,

Please find our full set of the Christensen Road Intersection drawings in the link below. We hereby request an Unconditional Works approval. Please let us know if you have any comments.

N/R

Kind Regards

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Thursday, July 25, 2024 12:13 PM
To N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com> N/R

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N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Please see below required detail:

- Line Marking
  - There is no note or information indicating if RRPMs are to be installed as per standard practice.
  - Chevron markings on wide shoulder area on left turn out of Christensen Road may be required.
  - Confirmation of line marking/widths on shoulder of BAR, total width of BAR to be minimum of 6.5, however TMR has no objection to the current proposed 7m (inclusive of 0.5m shoulder).
- Pavement Queries:
  - Detail about pavement configuration
  - Provide Circly summary if undertaken

Thanks N/R

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: N/R @gcecontractors.com>
Sent: Wednesday, July 24, 2024 10:21 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Thanks Nathan I appreciate the quick response – we will not require a meeting however if you could please relay the required detail for pavement design and Linemarking via return email, we will address these and revert back to you for approval.

Kind Regards,

N/R
GCE Contractors Pty Ltd

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Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, July 23, 2024 3:57 PM
To: N/R @gcecontractors.com>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Following up on my below email,

The plans have been reviewed by Ken and myself, TMR generally endorses the design, all that is needed is further detail regarding the pavement design and a few queries regarding line marking, we are happy to condition these requirements or I can relay them via email/meeting.

Noting that TMR endorses the design and are happy with the design progressing, would you still like to have a meeting? If so, please let me know your availability and I can arrange this.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: Nathan K Cubit
Sent: Tuesday, July 23, 2024 9:50 AM
To N/R gcecontractors.com>
Cc: N/R @gcecontractors.com> N/R

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N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Apologies, I was not at work yesterday, I can confirm receipt of the updated plans, I will check with Ken regarding his availability and will get a meeting organised shortly.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From N/R @gcecontractors.com>
Sent: Tuesday, July 23, 2024 9:33 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Can you please confirm receipt of the additional design documents and advise when DTMR would be available to meet to discuss? We are looking to commence works within the next few weeks and need to get this underway as soon as possible.

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: N/R
Sent: Friday, July 19, 2024 12:36 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Please find attached additional design documents. Can you please confirm receipt and advise when we can arrange a meeting in relation to this development?

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, June 25, 2024 2:00 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Attached is what we have received, is this the latest from your end or is there more that we haven't received?

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region

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Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From N/R @gcecontractors.com>
Sent: Tuesday, June 25, 2024 1:56 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

I had sent through the design we currently have for the road upgrade works. As this is at 30% design it is not complete and would require a meeting in order to continue with progressing the design. Can you please confirm that you received the design submitted with our application?

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Monday, June 24, 2024 12:15 PM
To N/R @gcecontractors.com>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

In regards to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307,

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The Department of Transport and Main Roads is requesting more information/detailed plans to support your application, specifically additional drawings such as cross sections, drainage, pavement design, horizontal & vertical geometry as the current provided information is quite limited.

Feel free to provide the above via return email and I will upload them into the application.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Sent: Thursday, June 20, 2024 11:16 AM
To: GCE Contractors Pty Ltd N/R @gcecontractors.com.au>
Cc: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

I refer to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307. This application was received by the Department of Transport and Main Roads (the department) on 18 June 2024.

Should further information be required to assess your application, an information request will be issued.

If no further information is required, your application will be assessed, and you will be provided with a response pursuant to the TIA.

If you would like to discuss this application, please contact Nathan Cubit, Student Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6516.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

Regards,
eDAM System | Department of Transport and Main Roads

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Opinions contained in this email do not necessarily reflect the opinions of the Department of Transport and Main Roads, or endorsed organisations utilising the same infrastructure.

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Pacific Geotech
Consulting Geotechnical Engineers

GEOTECHNICAL INVESTIGATION: Proposed Road Upgrade

Christensen Road

Mt Walker

GCE Contractors Pty Ltd

July 2023

PG-7663

E: info@pacgeo.com.au
www.pacgeo.com.au ABN: 62 615 248 952

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Pacific Geotech
Consulting Geotechnical Engineers

Ref: PG-7663, 2023-07-13, GR VER 1
Author: N/R

13th July, 2023

GCE Contractors Pty Ltd
Email N/R @gcecontractors.com.au

ATTN: N/R

Dear Sir,

GEOTECHNICAL INVESTIGATION – PROPOSED ROAD UPGRADE
CHRISTENSEN ROAD, MT WALKER

1.0 INTRODUCTION

This report presents the results of the geotechnical investigation carried out by Pacific Geotech at the above site, to assess the subsurface characteristics within 18 test pits along the proposed road alignment.

2.0 METHODOLOGY

Subsurface conditions were investigated by excavating and sampling 18 testpits, to depths in the order of 1m, using a small excavator supplied by the client fitted with a small toothed bucket.

The subsurface profile encountered in the test pits typically comprised a thin veneer of topsoil over high plastic silty/sandy clay to the test pit termination depth.

Samples collected from the test pits were sent to the Pacific Geotech laboratory and the following tests were undertaken:

- CBR
- Atterberg Limits
- Particle Size Distribution
- Emerson Class

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A site plan indicating the test locations and photographs of the site at the time of the investigation are appended to the report.

3.0 SITE DESCRIPTION

The test pits were excavated adjacent to the existing Christensen Road and in areas where the new alignment to the proposed quarry.

The typical site topography was slightly undulating with several low lying areas and rock outcrops (where the proposed quarry will be located).

The proposed alignment of the road is shown in Figure 1 and regional geology in Figure 2.

Figure 1 Proposed Road Alignment

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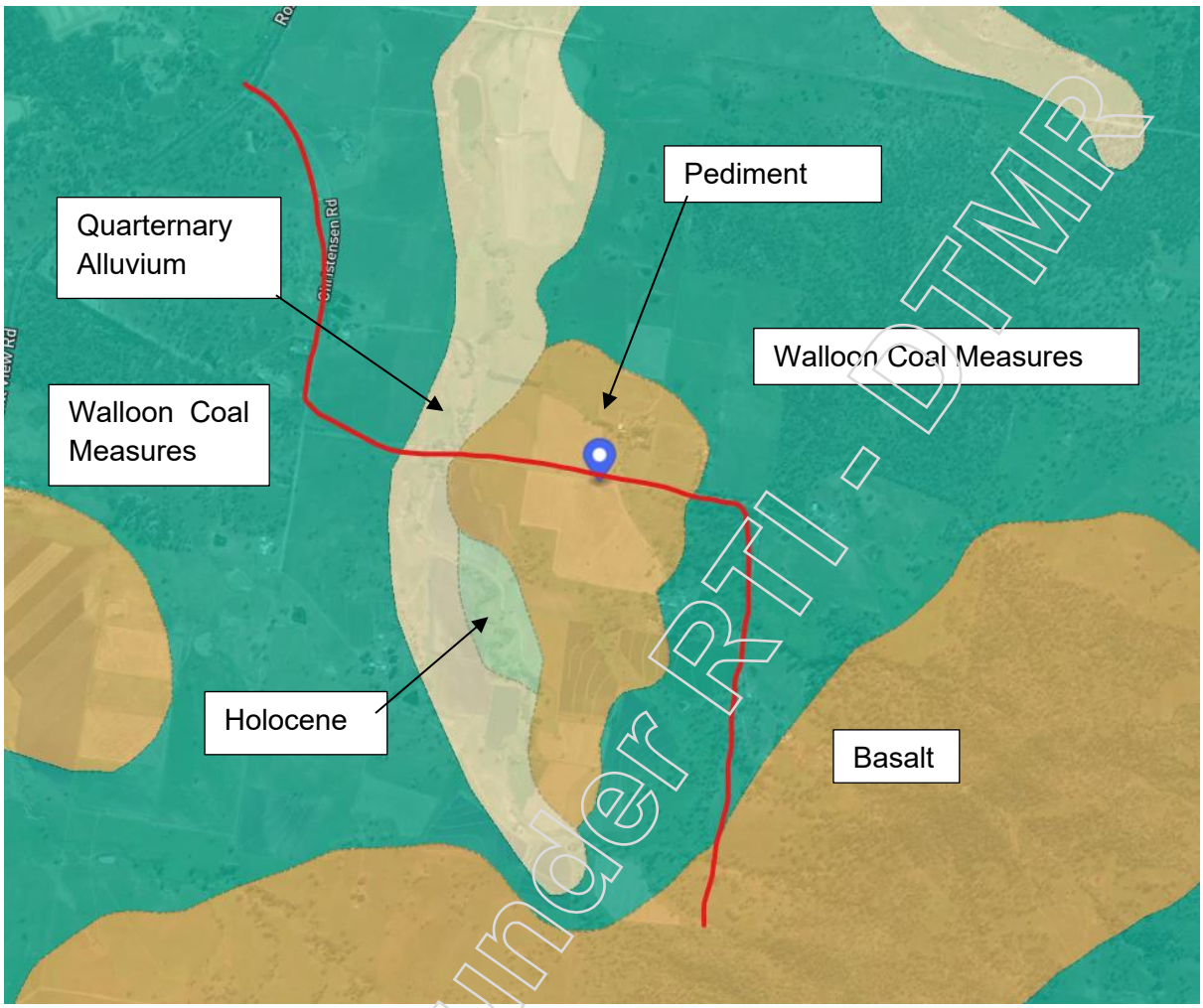
Figure 2 Regional Geology



4.0 LABORATORY TEST RESULTS

A summary of the laboratory test results is shown in the following tables.

TABLE 1 SUMMARY OF EMERSON CLASS RESULTS

Location	Depth (m)	Electrical Conductivity (µS/cm)	pH	Emerson Class
TP7	1.1	94	7.8	8
TP8	1.0	48	7.5	8
TP9	1.2	410	8.0	8
TP10	1.1	53	8.1	8

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TABLE 2 SUMMARY OF CBR TEST RESULTS

Location	Depth (m)	MDD (t/m³)	OMC (%)	CBR %
TP7	1.1	1.68	19.3	4.0
TP8	1.0	1.38	31.8	3.0
TP9	1.2	1.45	26.4	2.5
TP10	1.1	1.35	27.0	3.5

TABLE 3 SUMMARY OF ATTERBERG LIMITS TEST RESULTS

Location	Depth (m)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	Linear Shrinkage (%)
TP10	1.1	64	28	36	19.0
TP9	1.2	76	26	49	24.0
TP8	1.0	67	26	41	18.5
TP7	1.1	50	18	31	17.0

TABLE 4 SUMMARY OF PARTICLE SIZE DISTRIBUTION TEST RESULTS

Location	Depth (m)	Percent Passing (%)								
		9.5	4.75	2.36	1.18	0.600	0.425	0.300	0.150	0.075
TP10	1.1	100	100	99	98	98	97	96	94	91
TP8	1.0	100	100	100	100	100	99	98	93	88
TP7	1.1	90	85	82	79	77	74	71	61	55

5.0 LIMITATIONS

We have prepared this report for the Proposed Road Upgrade at Christensen Road, Mt Walker. The report is provided for the exclusive use of GCE Contractors Pty Ltd, for this project only and for the purposes outlined in the report. It should not be used by, or relied upon, for other projects on the same or different sites or by a third party. In preparing this report, we have relied upon information provided by the client or their agents.

The results are indicative of the subsurface conditions on site only at the specific testing locations. Subsurface conditions can change between test locations and the design and construction should take the spacing of the testing and testing methods adopted and the potential for variation between the test locations.

This is not to reduce the level of responsibility accepted by Pacific Geotech, but rather to ensure that the parties who may rely on the information contained in this report are aware of the responsibilities they assume in doing so.

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It is recommended that Pacific Geotech be engaged to provide advice and ensure the development is undertaken in accordance with the assumptions made in writing this report.

No knowledge of any additional earthworks is available at the time of reporting. Any earthworks undertaken onsite should be undertaken in accordance with the requirements and recommendations of AS 3798-2007 'Guidelines on Earthworks for Commercial & Residential Developments' and AS 2870-2011 'Residential Slabs & Footings' and are undertaken in a responsible manner.

Yours faithfully,

N/R [redacted]

For and on behalf of
PACIFIC GEOTECH PTY LTD

Attached Notes Relating to this Report
Site Photographs
Laboratory Test Certificates

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Notes Relating to this Report

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis.

Every care has been taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical conditions and contains recommendations or suggestions for design and construction. However, unexpected variations in ground conditions will occur. The potential for this will depend partly on testing, spacing and sampling frequency.

If variations are identified, Pacific Geotech would be pleased to assist with additional investigations or advice to resolve the matter.

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Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Description and Classification Methods

The description and classification of soils and rocks used in this report are based on AS 1726.

Soil types are described according to the predominating particle size and behaviour as set out in the attached Unified Soil Classification Table qualified by the percent of other particles present (e.g. sandy clay) as set out below:

Soil Classification	Particle Size
Clay	less than 0.002mm
Silty	0.002 to 0.06mm
Sand	0.06 to 2mm
Gravel	2 to 60mm

Non-cohesive soils are classified on the basis of relative density which can be correlated from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very Loose	less than 4
Loose	4 – 10
Medium Dense	10 – 30
Dense	30 – 50
Very Dense	greater than 50

Cohesive soils are classified on the basis of strength (consistency) and can be quantified by the Pocket Penetrometer test, Vane Shear test, laboratory testing or engineering examination. The strength terms are defined as follows:

Classification	Unconfined Compressive Strength kPa
Very Soft	less than 25
Soft	25 - 50
Firm	50 – 100
Stiff	100 – 200
Very Stiff	200 - 400
Hard	greater than 400
Friable	strength not attainable – soil crumbles

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc.

Planarity	
CU	Curved
DIS	Discontinuous
IR	Irregular
PR	Planar
ST	Stepped
UN	Undulose

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Roughness	
POL	Polished
RJ	Rough
S	Smooth
SL	Slickened
VR	Very Rough

Defects	Type
BP	Bedding Parting
CL	Cleavage
CO	Contact
CS	Crushed Seam
CZ	Crushed Zone
DB	Drilling Break
DK	Dyke
DL	Drill Lift
DZ	Decomposed Zone
FC	Fracture
FL	Foliation
FZ	Fracture Zone
HB	Handling Break
IS	Infilled Seam
JT	Joint
H	Schistosity
SI	Sill
SM	Seam
SS	Shear Seam
SZ	Shear Zone
VN	Vein
VO	Void

Sampling

Sampling is undertaken during the fieldwork to allow examination of the soil or rock and to allow laboratory testing to be undertaken.

Disturbed samples taken during drilling provide information on plasticity, grain size, colour, moisture content and minor constituents. Bulk samples are similar but of greater volume required for some test procedures such as CBR testing.

Undisturbed samples are taken by pushing a thin-walled sample tube, usually 50mm diameter (known as a U50), into the soil and collecting a sample of the soil contained in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling used are given on the attached logs.

Investigation Methods

Test Pits: These are typically undertaken with a backhoe or a tracked excavator, allowing examination of the insitu soils. Limitations of test pits are the problems associated with collapse of the pits, disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

Hand Auger Drilling: A borehole of typical diameter of between 50mm to 75mm advance manually operated equipment. Premature refusal of the hand augers can occur on a variety of materials such as fill, gravel, hard clays and collapse of the borehole (typically in non-cohesive soil).

Continuous Spiral flight Augers: The borehole is advanced using 65mm to 100mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. Augers of up to 300mm in diameter are used to recover larger volumes of sample. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights. Samples can be disturbed and layers may become mixed. Augering below the groundwater table can be less reliable than augering above the water table.

A Tungsten Carbide (TC) bit for auger drilling into rock can be used to indicate rock strength and continuity by variation in drilling resistance and from examination of recovered rock fragments but provides only an indication of the likely rock strength. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

Wash Boring: The borehole is advanced by a bit attached to the end of a hollow rod string, with water being pumped down the drill rods and returned up the annulus of the borehole, carrying the drill cuttings. Changes in stratification can be determined from the return, together with information from “feel” and rate of penetration.

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The borehole can be stabilised through the use of drilling mud as a circulating fluid. The term 'mud' encompasses a range of products ranging from bentonite to polymers such as Revert or Biogel.

Continuous Core Drilling: A continuous core sample is obtained using a diamond tipped core barrel. This technique provides a reliable (but relatively expensive) method of investigation. In rocks, an NMLC triple tube core barrel is used, which gives a core of about 50mm diameter. The length of core recovered is compared to the length drilled and any length not recovered is shown as CORE LOSS.

Standard Penetration Tests: Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils as a means of indicating density or strength and also of obtaining a disturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposed", Test 6.3.1.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63kg hammer, with a free fall of 760mm. The sample is driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense soils, hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of , say, 4, 6 and 7 blows, as
  N = 13
  4, 6, 7
- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as
  N > 30
  15, 30/40mm

Cone Penetrometer Testing (CPT): Cone Penetrometer Testing with or without pore pressure measurement (CPTu) is carried out using a Cone Penetrometer in general accordance with AS 1289 6.5.1, 1999.

In the tests, a 36mm diameter rod with a conical tip is pushed continuously into the soil, the reaction being provided by a hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the fractional resistance on a separate 135mm long sleeve, immediately behind the cone. Pore Pressure is recovered through a pore ring located either within, or more usually immediately behind the cone/tip.

As penetration occurs (at a rate of approximately 20mm per second) and data is recorded every 20mm of penetration, the results are presented graphically.

The information provided on the plot comprises:

- Cone resistance – expressed in mPa
- Sleeve friction – expressed in kPa
- Friction ratio – the ratio of sleeve friction to cone resistance expressed as a percentage.
- Pore pressure in kPa
- Tilt of probe (in degrees).

The ratios of the sleeve resistance to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1% to 2% are commonly encountered in sands and rising to 2% to as high as 8%, and higher in organic soils. Soil descriptions based on cone resistance and friction ratios are only inferred and must not be considered as exact.

Stratification can be inferred from the cone and friction traces and from experience and information from nearby boreholes, etc. Where shown, this information is presented for general guidance, but must be regarded as interpretive.

Dynamic Cone Penetrometers:

Dynamic Cone Penetrometer (DCP) tests are carried out by driving a 16mm diameter rod into the ground with a 9kg sliding hammer dropping 510mm and counting the blows for successive 100mm increments of penetration.

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Logs

The borehole or test pit logs are an interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of the boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than "straight line" variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.

Groundwater

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be flushed from the hole and drilling mud must be washed out of the hole or 'reverted' chemically if water observations are to be made.

More reliable measurements can be made by installing standpipes from which ongoing monitoring can be undertaken.

Fill

The present of fill materials can often be determined only by the inclusion of foreign objects (e.g. bricks, steel ,etc.) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult to reliably determine the extent of the fill.

Laboratory Testing

Laboratory testing is carried out in general accordance with Australian Standard 1289 'Methods of Testing Soil for Engineering Purposes'.

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, the company requests that it immediately be notified. Most problems are much more readily resolved when conditions are exposed than at some later stage.

Review of Design

Where major civil or structural developments are proposed or where only a limited investigation has been completed or where the geotechnical conditions/constraints are quite complex, it is prudent to have a design review.

Site Inspection

Pacific Geotech would be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related:

Requirements could range from:

i. a site visit to confirm that conditions exposed are no worse than those interpreted, to
ii. a visit to assist the contractor or other site personnel in identifying various soil/rock types such as appropriate footing or pier founding depths, or
iii. full time engineering present on site.

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Test Pit 1

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Test Pit 2

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Test Pit 5

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Test Pit 8

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Test Pit 9

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Test Pit 10

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Test Pit 11

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Test Pit 12

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Test Pit 16

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Test Pit 18

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Consulting Geotechnical Engineers

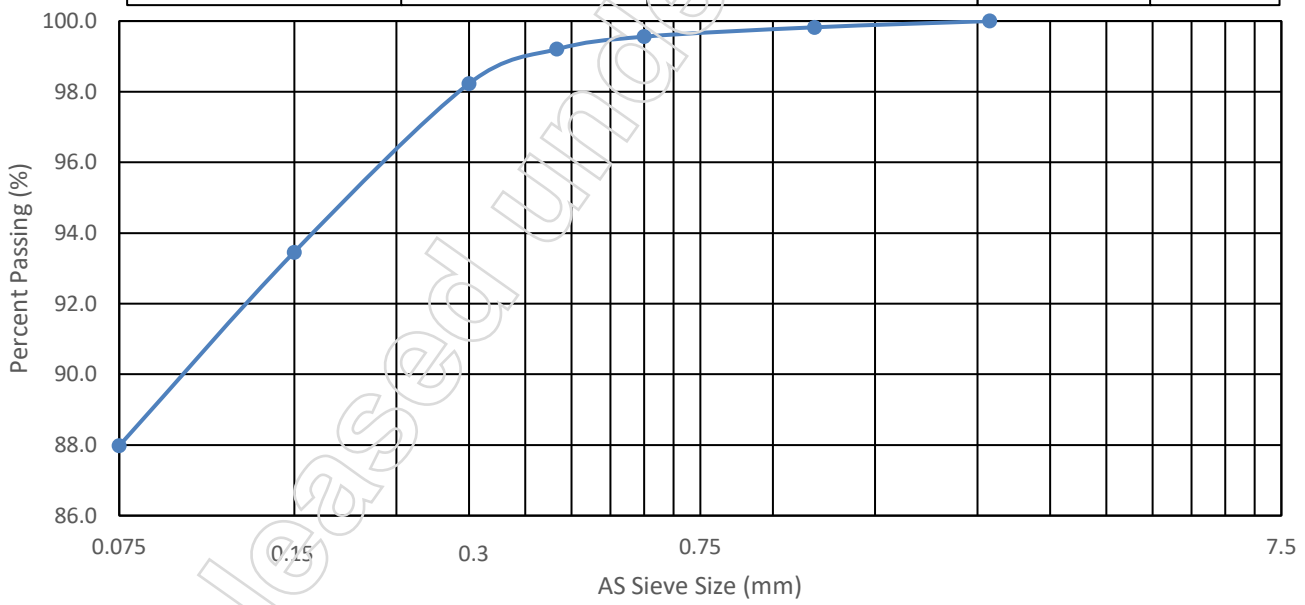
Particle Size Distribution Report

Client:	GCE Contractors	Project Number:	PG-7663
Client Address:	3 Jowett Street, Coomera Qld 4209	Report Number:	PG-7663-TP8-1.0-PSD
Project Address:	Christensen Road, Mt Walker	Report Date:	3/07/2023
Project Name:	Subgrade Assessment	Test Method:	AS1289.3.6.1

SAMPLE LOCATION:	**TP8, 1.0m**
SAMPLE NUMBER:	23-1353
SAMPLING METHOD:	SAMPLE AS SUPPLIED
DATE SAMPLED:	20.06.2023
DATE TESTED:	3/07/2023
MATERIAL TYPE:	**Silty Clay**

AS Sieve Size (mm):	Percent Passing (%):
2.36	100
1.18	100
0.600	100
0.425	99
0.300	98
0.150	93
0.075	88

SAND			GRAVEL	
FINE	MEDIUM	COARSE	FINE	MEDIUM



Pacific Geotech Pty Ltd

Gold Coast Laboratory

Approved Signatory

N/R

N/R Senior Geotechnician

Report Remarks: -

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Sampling test method is not covered by our scope of accreditation.

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www.pacgeo.com.au
ABN: 62 615 248 952

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Pacific Geotech
Consulting Geotechnical Engineers

ATTERBERG LIMITS INDEX REPORT

CLIENT:	GCE Contractors	PROJECT NUMBER:	PG-7663
CLIENT ADDRESS:	c/o 3 Jowett Street, Coomera Qld 4209	REPORT NUMBER:	PG-7663-TP9-1.2-ATT
PROJECT:	Subgrade Assessment	REPORT DATE:	3/07/2023
PROJECT ADDRESS:	Christensen Road, Mt Walker	TEST METHOD:	AS 1289.3.1.2, 3.2.1, 3.3.1, 3.4.1 & 2.1.1

SAMPLE LOCATION:	**TP9, 1.2m Bulk**
SAMPLE NUMBER:	23-1354
SAMPLING METHOD:	SAMPLE AS SUPPLIED
SAMPLED BY:	PACIFIC GEOTECH
DATE SAMPLED:	20.06.2023
DATE TESTED:	30.06.2023
SAMPLE HISTORY:	Oven Dried
PREPERATION METHOD:	Dry Sieved
MATERIAL TYPE:	**Silty Clay**

LIQUID LIMIT (%):	**76**
PLASTIC LIMIT (%):	**26**
PLASTICITY INDEX (%):	**49**
LINEAR SHRINKAGE (%):	**24.0**
MOULD LENGTH (mm):	127
CRACKING:	None
CRUMBLING OR CURLING:	Curling

bsi ISO 9001 Quality Management Systems CERTIFIED

Pacific Geotech Pty Ltd

Gold Coast Laboratory

Approved Signatory

N/R

N/R - Senior Geotechnician

Report Remarks: -

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ABN: 62 615 248 952

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Consulting Geotechnical Engineers

Particle Size Distribution Sheet

CLIENT:	GCE Contractors	**PROJECT NUMBER:**	PG-7663
CLIENT ADDRESS:	3 Jowett Street, Coomera Qld 4209	**DATE SAMPLED**	20.06.2023
PROJECT NAME:	Subgrade Assessment	**TESTED BY:**	SB
PROJECT ADDRESS:	Christensen Road, Mt Walker	**DATE TESTED:**	3/07/2023
LOCATION:	TP9, 1.2m Bulk	**CHECKED BY:**	SB
SAMPLE NUMBER:	23-1354	**DATE CHECKED:**	3/07/2023

SAMPLE DESCRIPTION:	**Sandy Clay**
Test Method:	AS1289.3.6.1
Report Remarks:	

GRADING CONTAINER NUMBER:	2-09
MASS CONTAINER (g):	240.8
MASS CONTAINER & DRY SOIL (g):	404.9
MASS CONTAINER & DRY SOIL AFTER WASHING (g):	279.4
MASS SAMPLE (g):	164.1

EQUIPMENT USED		
RIFFLE BOX / S:	055 - Small	-
OVEN:	088 High Temp	
BALANCE/S:	021 (3.1kg)	-
SIEVE SET / WASH SIEVE:	Set 1 - 200mm	157
SIEVE SHAKER	168	

Sieve	Mass retained (g)	Mass retained (%)	Percent Passing (%)
2.36	8.8	5.4	**94.6**
1.18	0.8	0.5	**94.1**
0.600	0.7	0.4	**93.7**
0.425	1.0	0.6	**93.1**
0.300	3.4	2.1	**91.0**
0.150	14.3	8.7	**82.3**
0.075	9.1	5.5	**76.8**
PAN	0.1	0.1	**76.7**
FINES	125.9	76.7	
	TOTAL	**100.0**	

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Corrections Record

Cell Number	Old Value	New Value	Reason for Correction	Corrected By	Date

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ATTERBERG LIMITS INDEX REPORT

CLIENT:	GCE Contractors	PROJECT NUMBER:	PG-7663
CLIENT ADDRESS:	c/o 3 Jowett Street, Coomera Qld 4209	REPORT NUMBER:	PG-7663-TP10-1.1-ATT
PROJECT:	Subgrade Assessment	REPORT DATE:	3/07/2023
PROJECT ADDRESS:	Christensen Road, Mt Walker	TEST METHOD:	AS 1289.3.1.2, 3.2.1, 3.3.1, 3.4.1 & 2.1.1

SAMPLE LOCATION:	**TP10, 1.1m Bulk**
SAMPLE NUMBER:	23-1355
SAMPLING METHOD:	SAMPLE AS SUPPLIED
SAMPLED BY:	PACIFIC GEOTECH
DATE SAMPLED:	20.06.2023
DATE TESTED:	30.06.2023
SAMPLE HISTORY:	Oven Dried
PREPERATION METHOD:	Dry Sieved
MATERIAL TYPE:	**Silty Clay**

LIQUID LIMIT (%):	**64**
PLASTIC LIMIT (%):	**28**
PLASTICITY INDEX (%):	**36**
LINEAR SHRINKAGE (%):	**19.0**
MOULD LENGTH (mm):	127
CRACKING:	None
CRUMBLING OR CURLING:	Curling

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Gold Coast Laboratory

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N/R

N/R - Senior Geotechnician

Report Remarks: -

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www.pacgeo.com.au
ABN: 62 615 248 952

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Consulting Geotechnical Engineers

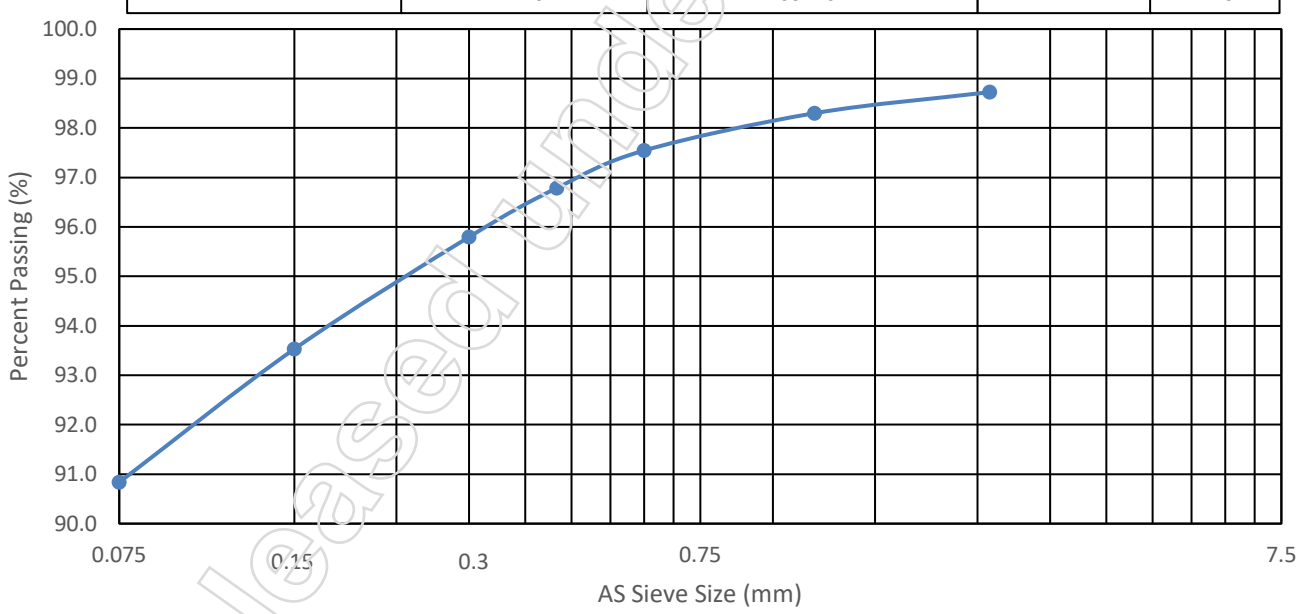
Particle Size Distribution Report

Client:	GCE Contractors	Project Number:	PG-7663
Client Address:	3 Jowett Street, Coomera Qld 4209	Report Number:	PG-7663-TP10-1.1-PSD
Project Address:	Christensen Road, Mt Walker	Report Date:	3/07/2023
Project Name:	Subgrade Assessment	Test Method:	AS1289.3.6.1

SAMPLE LOCATION:	**TP10, 1.1m Bulk**
SAMPLE NUMBER:	23-1355
SAMPLING METHOD:	SAMPLE AS SUPPLIED
DATE SAMPLED:	20.06.2023
DATE TESTED:	3/07/2023
MATERIAL TYPE:	**Silty Sand**

AS Sieve Size (mm):	Percent Passing (%):
2.36	99
1.18	98
0.600	98
0.425	97
0.300	96
0.150	94
0.075	91

SAND			GRAVEL	
FINE	MEDIUM	COARSE	FINE	MEDIUM



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Approved Signatory

N/R

N/R - Senior Geotechnician

Report Remarks: -

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ABN: 62 615 248 952

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From: SCR Corridor and Land Management Inbox
To: N/R
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()
Date: Thursday, 10 April 2025 3:16:44 PM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.png

Thanks N/R

I've uploaded these to our portal. The assessor will revie and be in contact in due course.

Emily Spencer
Administration Support Officer (Corridor and Land Management) | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

Phone: 07 5563 6404
Email: scr.calm@tmr.qld.gov.au
Website: www.tmr.qld.gov.au
Address: Floor G | 36-38 Cotton Street | Nerang Qld 4211

From: N/R @gcecontractors.com>
Sent: Tuesday, 8 April 2025 9:17 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Emily,

All documents have now been uploaded to the link you provided. They are contained within the folder "Christensen Road Submission Docs"

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Sent: Monday, April 7, 2025 2:22 PM
To: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Thank you for your recent email.

Unfortunately, we are unable to download files from a zip folder. To facilitate the process, I have provided access to a secure folder on OneDrive.

N/R

Could you please upload the necessary documents to this folder at your earliest convenience?

Thank you for your cooperation.

Emily Spencer
Administration Support Officer (Corridor and Land Management) | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

Phone: 07 5563 6404
Email: scr.calm@tmr.qld.gov.au
Website: www.tmr.qld.gov.au
Address: Floor G | 36-38 Cotton Street | Nerang Qld 4211

From: N/R @gcecontractors.com>
Sent: Tuesday, 1 April 2025 12:40 PM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Good afternoon,

Please find our full set of the Christensen Road Intersection drawings in the link below. We hereby request an Unconditional Works approval. Please let us know if you have any comments.

N/R

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N/R

Kind Regards

N/R

GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Thursday, July 25, 2024 12:13 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Please see below required detail:

- Line Marking
  - There is no note or information indicating if RRPMs are to be installed as per standard practice.
  - Chevron markings on wide shoulder area on left turn out of Christensen Road may be required.
  - Confirmation of line marking/widths on shoulder of BAR, total width of BAR to be minimum of 6.5, however TMR has no objection to the current proposed 7m (inclusive of 0.5m shoulder).
- Pavement Queries:
  - Detail about pavement configuration
  - Provide Circly summary if undertaken

Thanks N/R

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division

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Department of Transport and Main Roads

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Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From N/R @gcecontractors.com>
Sent: Wednesday, July 24, 2024 10:21 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Thanks Nathan I appreciate the quick response – we will not require a meeting however if you could please relay the required detail for pavement design and Linemarking via return email, we will address these and revert back to you for approval.

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, July 23, 2024 3:57 PM
To N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Following up on my below email,

The plans have been reviewed by Ken and myself, TMR generally endorses the design, all that is needed is further detail regarding the pavement design and a few queries regarding line

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marking, we are happy to condition these requirements or I can relay them via email/meeting.

Noting that TMR endorses the design and are happy with the design progressing, would you still like to have a meeting? If so, please let me know your availability and I can arrange this.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

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Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: Nathan K Cubit
Sent: Tuesday, July 23, 2024 9:50 AM
To N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Apologies, I was not at work yesterday, I can confirm receipt of the updated plans, I will check with Ken regarding his availability and will get a meeting organised shortly.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From N/R @gcecontractors.com>
Sent: Tuesday, July 23, 2024 9:33 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>

Released under RTI - DTMR

Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Can you please confirm receipt of the additional design documents and advise when DTMR would be available to meet to discuss? We are looking to commence works within the next few weeks and need to get this underway as soon as possible.

Kind Regards,

N/R

GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

GCE_Final - Copy

From: N/R
Sent: Friday, July 19, 2024 12:36 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Please find attached additional design documents. Can you please confirm receipt and advise when we can arrange a meeting in relation to this development?

Kind Regards,

N/R

GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R gcecontractors.com
www.gcecontractors.com.au

Released under RTI - DTMR

GCE_Final - Copy

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, June 25, 2024 2:00 PM
To N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Attached is what we have received, is this the latest from your end or is there more that we haven't received?

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From N/R @gcecontractors.com>
Sent: Tuesday, June 25, 2024 1:56 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

I had sent through the design we currently have for the road upgrade works. As this is at 30% design it is not complete and would require a meeting in order to continue with progressing the design. Can you please confirm that you received the design submitted with our application?

Kind Regards,

N/R
GCE Contractors Pty Ltd

Released under RTI - DTMR

Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

GCE_Final - Copy

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Monday, June 24, 2024 12:15 PM
To: N/R @gcecontractors.com>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

In regards to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307,

The Department of Transport and Main Roads is requesting more information/detailed plans to support your application, specifically additional drawings such as cross sections, drainage, pavement design, horizontal & vertical geometry as the current provided information is quite limited.

Feel free to provide the above via return email and I will upload them into the application.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Sent: Thursday, June 20, 2024 11:16 AM
To: GCE Contractors Pty Ltd N/R @gcecontractors.com.au>
Cc: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Released under RTI - DTMR

I refer to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307. This application was received by the Department of Transport and Main Roads (the department) on 18 June 2024.

Should further information be required to assess your application, an information request will be issued.

If no further information is required, your application will be assessed, and you will be provided with a response pursuant to the TIA.

If you would like to discuss this application, please contact Nathan Cubit, Student Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6516.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

Regards,
eDAM System | Department of Transport and Main Roads

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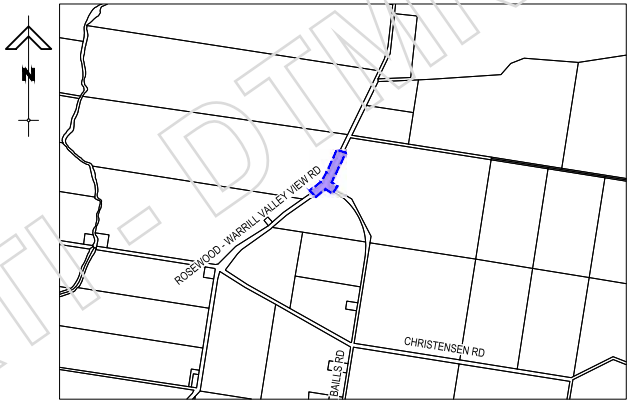
Opinions contained in this email do not necessarily reflect the opinions of the Department of Transport and Main Roads, or endorsed organisations utilising the same infrastructure.

Released under RTI - DTMR

MT WALKER QUARRY ACCESS ROAD
INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

SCHEDULE OF DRAWINGS	
SHEET No.	SHEET TITLE
C800	COVER SHEET AND LOCATION PLAN
C801	STANDARD NOTES
C820	DEMOLITION LAYOUT PLAN
C825	25m B-DOUBLE SWEPT PATH LAYOUT PLAN
C835	INTERSECTION EROSION AND SEDIMENTATION CONTROL PLAN
C836	INTERSECTION EROSION AND SEDIMENTATION CONTROL DETAILS
C840	EARTHWORKS LAYOUT PLAN
C860	ROAD INTERSECTION OVERALL LAYOUT PLAN
C861	INTERSECTION LAYOUT PLAN SHEET 1 OF 2
C862	INTERSECTION LAYOUT PLAN SHEET 2 OF 2
C863	ROSEWOOD-WARRILL VIEW ROAD DETAILS
C864	ROSEWOOD-WARRILL VIEW ROAD LONGITUDINAL SECTIONS
C865	ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 1 OF 3
C866	ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 2 OF 3
C867	ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 3 OF 3

SCHEDULE OF DRAWINGS	
SHEET No.	SHEET TITLE
C868	CHRISTENSEN ROAD LONGITUDINAL SECTION
C869	CHRISTENSEN ROAD CROSS SECTIONS
C870	INTERSECTION SIGNAGE LAYOUT PLAN SHEET 1 OF 2
C871	INTERSECTION SIGNAGE LAYOUT PLAN SHEET 2 OF 2
C875	PAVEMENT LAYOUT PLAN SHEET 1 OF 2
C876	PAVEMENT LAYOUT PLAN SHEET 2 OF 2
C890	CATCHMENT LAYOUT PLAN
C891	STORMWATER LAYOUT PLAN SHEET 1 OF 2
C892	STORMWATER LAYOUT PLAN SHEET 2 OF 2
C895	STORMWATER CULVERT SECTIONS SHEET 1 OF 2
C896	STORMWATER CULVERT SECTIONS SHEET 2 OF 2
C897	STORMWATER LONGITUDINAL SECTIONS
C898	STORMWATER CALCULATIONS TABLE
C899	STORMWATER DETAILS



LOCALITY PLAN
N.T.S.

GENERAL NOTES

1. CONTRACT DOCUMENTATION
ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE TMR'S SPECIFICATION RELEVANT TO THE WORKS.

2. SURVEY INFORMATION
CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE CONTRACTOR'S SURVEYOR. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.

3. DATUM
DATUM AS SUPPLIED BY THE PRINCIPAL'S SURVEYOR.

4. EXISTING SURVEY CONTROL STATIONS
THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.

5. EXISTING SERVICES
EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SERVICES. WHERE PROPOSED SERVICES CROSS ANY EXISTING SERVICES THE CONTRACTOR SHALL POT HOLE AND RECORD THE SIZE LOCATION AND DEPTH OF THE EXISTING SERVICES. ALL PRIVATE SERVICES SHALL BE LOCATED IN LINE AND DEPTH PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ARRANGE FOR ANY DEVIATION OF SERVICES TO BE CARRIED OUT BY THE ASSET OWNER OR THEIR NOMINATED REPRESENTATIVE.

6. SITE ACCESS
THE CONTRACTOR SHALL GAIN ACCESS TO THE WORK SITES AT LOCATIONS APPROVED BY THE SITE MANAGER. FREEDOM OF ACCESS TO PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL WORK WITHIN THE APPROVED CONSTRUCTION MANAGEMENT PLAN.

7. PROVISION FOR TRAFFIC
PROVISION FOR TRAFFIC ON EXISTING LOCAL ROADS IS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL AUTHORITY REQUIREMENTS.
THE CONTRACTOR IS TO TAKE PARTICULAR CARE TO ENSURE THAT VEHICULAR AND PEDESTRIAN ACCESS TO EXISTING PROPERTIES IN LOCAL STREETS IS MAINTAINED AT ALL TIMES THROUGHOUT THE COURSE OF THE WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL TRAFFIC MANAGEMENT PLANS AND REPORTS TRAFFIC GUIDANCE SCHEMES FOR THE APPROVAL OF TMR AND ARRANGING, MAINTAINING AND COMPLYING WITH THE REQUIREMENTS OF ALL ROAD CORRIDOR ACCESS PERMITS REQUIRED BY TMR TO CARRY OUT THE WORKS. COUNCIL SHALL BE NOTIFIED OF ALL CORRESPONDENCE AND SUBMISSIONS TO TMR.

8. WORK BOUNDARIES
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORK AREAS UNDER THIS CONTRACT. AT NO TIME SHALL THE CONTRACTOR ENTER ADJOINING PROPERTIES OR CONTRACT WORK AREAS ON THE SITE WITHOUT WRITTEN AUTHORISATION FROM THE SITE MANAGER.

9. SITE CLEARING
CLEARING AND GRUBBING SHALL BE CARRIED OUT TO ALL WORK AREAS AS SPECIFIED AND SHALL INCLUDE THE REMOVAL OF ALL REMAINING TREES AND TREE ROOTS (UNLESS NOMINATED TO BE PRESERVED), EXISTING VEGETATION, SURFACE MULCH, TIMBER, FENCES AND ANY OTHER DEBRIS. TRESS SHALL ONLY BE REMOVED IN ACCORDANCE WITH AN APPROVED VEGETATION MANAGEMENT PLAN.

10. TOPSOIL STRIPPING
ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE REMOVED FROM SITE.

11. EARTHWORKS (GENERAL)
a) ALL FILL MATERIAL PLACED SHALL BE COMPACTED AND TRIMMED TO FINAL EARTHWORKS LEVELS AND PROFILES SHOWN ON THE CONTRACT DRAWINGS AND TESTED IN ACCORDANCE WITH THE TMR SPECIFICATION MRTS 04.
b) LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
c) EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
d) ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL AUTHORITIES STANDARD EARTHWORKS SPECIFICATION MRTS 04 AND AS3798.
e) EXCESS CUT TO BE REMOVED FROM SITE.
f) ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.
g) THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE TMR SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS.
h) QUALITY TESTS
QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY TMR.
i) SUBGRADE TESTS
THE EXPOSED SUBGRADE IS TO BE INSPECTED BY THE GEOTECHNICAL CONSULTANT TO CONFIRM THAT THE MATERIAL IS CONSISTENT WITH TEST RESULTS AND RECOMMENDATION ISSUED IN THE GEOTECHNICAL INVESTIGATION REPORT. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT IN COMPLIANCE WITH TMR STANDARD REQUIREMENTS TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

12. COMPACTION STANDARDS
ALL FILL MATERIAL PLACED UNDER THIS CONTRACT SHALL BE COMPACTED IN ACCORDANCE WITH THE EARTHWORKS NOTES AND TMR STANDARD SPECIFICATION MRTS 04. ALL PLACEMENT OF FILL SHALL BE PLACED AND TESTED UNDER LEVEL 1 CONDITIONS.

13. STORMWATER DRAINAGE
LOCATION AND ALIGNMENT OF ALL STORMWATER DRAINLINES IS TO BE VERIFIED ON SITE WITH THE SITE MANAGER PRIOR TO EXCAVATION. THE DESIGN SURFACE LEVELS OF MANHOLES AND OTHER STRUCTURES ARE TO BE VERIFIED ON SITE WITH THE SITE MANAGER.
ALL DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TMR STANDARD SPECIFICATIONS.

14. ELECTRICAL & TELECOMMUNICATION RETICULATION
ALIGNMENTS OF ALL CONDUIT ARE TO BE VERIFIED ON SITE WITH THE OWNER PRIOR TO EXCAVATION. ALL TRENCHING AND CONDUIT WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE TMR'S AND SERVICE PROVIDERS STANDARD SPECIFICATION.

15. TOPSOIL REPLACEMENT AND GRASSING
FOLLOWING COMPLETION OF ROADWORKS CONSTRUCTION AND BULK EARTHWORKS OPERATIONS, THE FULL EXTENT OF VERGES, BATTERS AND DISTURBED ARE TO BE RE-TOPSOILED TO A MINIMUM DEPTH OF 150mm AND GRASS SEEDED.

16. TESTING
ALL TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY IN ACCORDANCE WITH THE TMR'S STANDARD SPECIFICATIONS.

17. "AS CONSTRUCTED" SURVEY
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE CONTRACTOR'S REGISTERED SURVEYOR. AS WORK PROCEEDS AS CONSTRUCTED SURVEY SHALL BE PROVIDED FOR ALL FINISHED SURFACE LEVELS, STORMWATER PIPES AND PITS, ALL PAVEMENT AND SUBGRADE LAYERS AND ALL OTHERS ROAD IMPROVEMENTS TO MEET THE REQUIREMENTS OF THE TMR MRTS 56.
THE CONTRACTOR SHALL SUPPLY ALL AS CONSTRUCTED DOCUMENTS INCLUDING MATERIAL SUPPLY CERTIFICATES, MATERIAL COMPACTION CERTIFICATES, PIPE AND CULVERT SUPPLY DOCKETS, CONCRETE COMPRESSIVE STRENGTH TESTS RESULTS (ALL CONCRETE WORKS), TWO COAT SEAL SEAL DESIGN CERTIFICATES, AS CONSTRUCTED DOCUMENTS IN PDF, CAD AND ADAC FORMAT, STORMWATER CULVERT AND PIPELINE CCTV REPORTS SUFFICIENT FOR THE CERTIFYING ENGINEER TO PREPARE CERTIFICATION OF THE WORKS PRIOR TO THE WORKS BEING SUBMITTED FOR ON-MAINTENANCE WITH TMR.

18. MAINTENANCE OF SITE CONDITION
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.

19. DUST
a) NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE.
b) THE CONTRACTOR TO PROVIDE A WATER TRUCK AS REQUIRED TO MINIMISE THE DUST PROBLEM CAUSED BY SITE TRAFFIC.

20. CONDUITS
THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING.

TMR REVIEW

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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NIGEL FLETCHER & ASS PTY LTD
ENGINEERS - PROJECT
PO BOX 7217
SOUTHPORT PARK QLD 4215
N/R
nigel@nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
COVER SHEET AND LOCATION PLAN

DEVE		DATE : JUL 2024	
PROJ	ETCHER	DESIGNER : TG	
DRAF		CHECKED : NIGEL FLETCHER	
APPR	N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C800	VERSION: D

FILENAME: N:\GIS\GIT Vaihsan Ltd Co\SURTS - Documents\SURTS0004_MW\AZ2020 MW Walker Quarry Access RDS\03_Civil\01_DA\Dwg A3\02_Asset\ADAC COVER SHEET AND LOCATION PLAN.dwg

PLOTTED: 14 Mar 2025

EARTHWORKS NOTES

NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
3. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL AUTHORITIES STANDARD EARTHWORKS SPECIFICATION AND AS3798.
4. EXCESS CUT TO BE REMOVED FROM SITE.
5. ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.

TESTING

1. THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS.
2. QUALITY TESTS
   QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
3. SUBGRADE TESTS
   THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY THE GEOTECHNICAL ENGINEER WHO SHALL RECOMMEND ANY ADJUSTMENT TO RECOMMENDED CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE EXPOSED SUBGRADE IS TO BE INSPECTED BY THE GEOTECHNICAL CONSULTANT TO CONFIRM THAT THE MATERIAL IS CONSISTENT WITH TEST RESULTS AND RECOMMENDATION ISSUED IN THE GEOTECHNICAL INVESTIGATION REPORT. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

STORMWATER NOTES

1. GENERAL
   a. LEVELS ARE REDUCE FROM A.H.D. DATUM .
   b. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DTMR STANDARD DRAWINGS AND THE RELEVANT SPECIFICATIONS.
   c. THE CONTRACTOR TO ENSURE ALL THE CONSTRUCTION SHALL BE ACCORDANCE WITH THE AS/N25 3500.3.2015 AND TO THE SATISFACTION OF THE RELEVANT STANDARD TMR SPECIFICATION.
   d. THE CONTRACTOR SHALL LIAISE WITH AUTHORITIES PRIOR TO COMMENCING WORK TO LOCATE ALL EXISTING SERVICE.
2. STORMWATER DRAINAGE
   a. ALL PIPES ARE TO BE CLASS 2 STEEL REINFORCED CONCRETE PIPES. UNO.
   b. MANHOLE AND HEADWALLS SHALL BE LOCATED AT THE POSITIONS SHOWN IRRESPECTIVE OF THE PIPE LENGTHS SHOWN. WHERE APPLICABLE FIELD INLETS SHALL BE LOCATED AT THE ACTUAL LOW POINTS.
   c. ALL PITS AND MANHOLES CHAMBER TO BE IN ACCORDANCE WITH TMR STD DRGS MRTS 24 AND MRTS 25.
   d. FOR CONSTRUCTION PURPOSES THE CONTRACTOR SHALL MAKE HIS OWN ASSESSMENT OF GROUND WATER AND ITS LIKELY AFFECT ON THE WORKS AND MAKE ALL DUE ALLOWANCE IN THEIR WORKS PROGRAM.
   e. DRAINAGE AS-CONSTRUCTED DATA PREPARED BY A REGISTERED SURVEYOR TO BE SUPPLIED TO SUPERINTENDENT PRIOR TO PLACEMENT OF PAVEMENT SUBBASE COURSE.
   f. ALL PIT AND MANHOLE COVERS TO BE CLASS D U.N.O.
   g. PIPES AND CULVERTS SHALL BE LAID IN ACCORDANCE WITH DTMR STD DRG 1359.
   h. THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR SUSTAINING FISH LIFE IN STATE CONTROLLED WATERWAYS.

PROJECT SPECIFICATIONS & STD DRAWINGS

ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING TMR STD DOCUMENTS:

TECHNICAL SPECIFICATIONS

MRTS03	DRAINAGE STRUCTURES RETAINING STRUCURES AND EMBANKMENT SLOPE PROTECTION
MRTS04	EARTHWORKS
MRTS05	UNBOUND PAVEMENTS
MRTS11	SPRAYED BITUMINOUS TREATMENTS
MRTS12	SPRAYED BITUMINOUS EMULSION SUFACING
MRTS19	CUTTER OILS
MRTS21	BITUMINOUS EMULSION
MRTS22	SUPPLY OF COVER AGGREGATE
MRTS30	ASPHALT PAVEMENTS

STANDARD DRAWINGS

SD1043	REINFORCING STEEL STD BAR SHAPES TYPICAL DETAILS AND NOTES DRGS 1 TO 4
SD1243	PRECAST CULVERT HEADWALL CONNECTIONS DRGS 1 TO 3
SD1260	RCBOX CULVERTS AND SLAB LINK BOX CULVERTS HEIGHTS 375 TO 600 DRGS 1 AND 2
SD1271	RC BOX CULVERTS IN ADR AMBER MAPPED WATERWAYS
SD1305	CULVERTS HEADWALL AND APPRON FOR PIPE DIA 375 tTO 675 MM DRGS 1 AND 2
SD1307	CAST INSITU DETAILS FOR 1050 TO 1200 DIA SW CHAMBERS
SD1308	PRECAST ROOF SLAB DETAILS FOR 1050 TO 1200 DIA SW CHAMBERS
SD1356	ROAD EDGE GUIDE POSTS
SD1358	MAINTENANCE MARKER POSTS
SD 1359	CULVERTS INSTALLATION FILLING/BACKFILLING OVER OR AGAINST CULVERTS

PAVEMENTS

1. THE DESIGN PAVEMENT DEPTHS ALLOWED IN THE EARTHWORKS CALCULATIONS ARE BASED ON THE DEPTHS SHOWN ON THE PRELIMINARY PAVEMENT PROFILES ON DRG C875.
2. THE PAVEMENT DESIGN DEPTHS ARE SUBJECT TO SUB-GRADE INVESTIGATIONS. THE CONTRACTOR IS TO PROVIDE A FULL GEOTECHNICAL INVESTIGATIONS REPORT TO ADDRESS THE PAVEMENT SUBGRADE CBR, CULVERT AND PIPE BASE CONDITIONS, USE OF CUT MATERIAL AS FILL, AND ADVICE ON STABLE BATTERS ALL IN ACCORDANCE WITH TMR REQUIREMENTS.
3. THE SUPERVISING RPEQ WILL CO-ORDINATE THE AUTHORITIES APPROVAL OF THE PAVMEENT DESIGN USING THE ABOVE INFORMATION.

SEDIMENT AND EROSION CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLANS.
2. IDENTIFICATION, TREATMENT AND ON-GOING MANAGEMENT OF ENVIRONMENTAL ISSUES IS TO BE IMPLEMENTED AND MANAGED ON SITE DURING THE CONSTRUCTION PHASE BY THE PRINCIPAL CONTRACTOR WITH REFERENCE TO THE APPROVED PLANS.
3. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED THROUGHOUT THE SITE TO REDUCE THE RISK OF EROSION, MINIMISE THE GENERATION OF SEDIMENTS AND PREVENT OFF-SITE TRANSPORT OF SEDIMENTS AND DUST AT ALL STAGES THROUGH OUT TAG CONTRACT PERIOD.
4. CONTROL MEASURES ARE TO BE PROGRESSIVELY INSTALLED DURING CONSTRUCTION ACTIVITIES FOR THE SITE, TYPICALLY AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. TYPICAL DEVICE DETAILS ARE TO BE CONSTRUCTED AS DETAILED AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE ESC PLANS, MRTS 52 AND BEST PRACTICE EROSION AND SEDIMENT CONTROL IECA.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE REGULARLY MAINTAINED AND INSPECTED FOR EFFECTIVENESS. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE DEVICES MEET THE EROSION MANAGEMENT OBJECTIVES.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION .
7. THE EXTENT AND POSITION OF THE EROSION AND SETTLEMENT CONTROL MEASURES IS TO BE DETERMINED ON SITE BY THE CONTRACTOR TO SUIT THE CONSTRUCTION PROGRAM AND SITE CONDITIONS.
8. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES AND ENSURE THAT THEY MEET TMR STANDARDS.
9. LARGE OPEN AREAS OF STEEP BATTERS SHOULD NOT BE LEFT EXPOSED/UNSTABILISED FOR MORE THAN 10 DAYS OR IF WET WEATHER IS FORECASTED.
10. EXPOSED AREAS INCLUDING BATTERS WHICH REMAIN UNWORKED FOR MORE THAN 10 DAYS SHOULD BE STABILISED USING TEMPORARY HYDRO MULCHING HYDROSEEDING OR MULCHING EVEN IF AREAS WILL BE WORKED ON A LATER STAGE.
11. THE CONTRACTOR SHALL BE AWARE OF ITS RESPONSIBILITIES FOR PROTECTING THE DOWNSTREAM ENVIRONMENT AND RECEIVING WATERS FROM POLLUTION AND ENVIRONMENTAL HARM UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.
12. ADDITIONALY THE CONTRACTOR SHALL BE AWARE OF ITS DUTY TO NOTIFY THE LOCAL AUTHORITY AND THE ENVIRONMENTAL PROTECTION AGENCY (QLD) FOR A POTENTIAL OR ACTUAL INCIDENT OF ENVIRONMENTAL HARM UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.

REQUIRED SEQUENCE

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED FUNCTIONAL PRIOR TO THE COMMENCEMENT OF ANY STRIPPING OR PAVEMENT DEMOLITION WORKS AND IN THE FOLLOWING SEQUENCE;
   a. INSTALL ALL PERIMETER SEDIMENT FENCES;
   b. CONSTRUCT TEMPORARY STABILISED SITE ACCESS INSURING ADJACENT STORMWATER RUN-OFF IS THE WORK DIVERTED AWAY FROM THE ACCESS POINTS;
   c. INSTALL SEDIMENT FENCING IN BARRIER FENCING TO CONFINED INGRESS TO AND EGRESS FROM THE SITE TO STABILISE THE ACCESS POINTS ONLY;
   d. PROVIDE INLET PROTECTION TO STORMWATER INLET HEAD WALLS AND GULLIES AFFECTED BY THE WORKS;
   e. INSTALL UPSTREAM DIVERSION BUNDS TO DIVERT CLEAN WATER AROUND THE WORKSITE;
   f. INSTALL ALL REMAINING TEMPORARY SEDIMENT FENCES
   g. CONSTRUCT ANY NOMINATED SEDIMENT BASIN'S AND SEDIMENT TRAP'S INCLUDING INLET TREATMENTS AND OVERFLOW TREATMENTS;
   h. REINSTATE AND STABILISE ALL DISTURBED AREAS PROGRESSIVELY AS WORKS ARE COMPLETED.TEMPORARY STABILISATION TO BE DONE USING MULCHING HYDRO-MULCHING HYDRO-SEEDING, DIRECT SEEDING OR TURFING TO GIVE A 70% COVERAGE OF GROUND SURFACE WITHIN 14 DAYS OF WORKS COMPLETED EVEN IF WORKS MAY CONTINUE LATER.
   i. MATERIALS FOR TEMPORARY MEASURES SHOULD BE STOCKPILED OR STORED CLOSE TO WHERE THEY ARE REQUIRED IN THE EVENT OF RAINFALL BEING FORECASTED OR EXPERIENCED ON SITE.
   j. THE CONTRACTOR SHALL ARRANGE FOR A SUITABLY SIZED WATER TRUCK TO BE AVAILABLE FOR THE ENTIRE EARTHWORKS STAGE. REFER DUST CONTROL.
2. UNDERTAKE ALL WORKS SO THAT LAND DISTURBANCE IS CONFINED TO THE MINIMUM WORKABLE AREAS.
3. ALL WORK AREAS TO BE DELINEATED BY SECURED BARRIER FENCING, DIVERSION BUND UPSLOPE AND SEDIMENT FENCING DOWNSLOPE.
4. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING VEGETATION AND GROUNDCOVER IS RETAINED AS MUCH AS POSSIBLE.
5. WHERE PRACTICAL TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ON SITE.
6. ALL MATERIAL STOCKPILES SHALL BE LOCATED AWAY FROM AREAS OF CONCENRATED FLOW AND SHALL NOT IN THEMSELVES CAUSE FLOW TO BE CONCENTRATED.
7. ALL STOCKPILES SHALL HAVE A DOWNSLOPE SEDIMENT FENCE OR MULCH BUND INSTALLED. IF A PORTION OF THE STOCKPILE IS ACTIVELY WORKED THE SEDIMENT FENCE OR BUND MUST BE REINSTATED PRIOR TO ANY LIKELIHOOD OF RAINFALL (>10%) AT THE END OF THE DAILY WORKS.
8. A FLOW DIVERSION STRUCTURE SHOULD BE IMPLEMENTED IMMEDIATELY UPSLOPE OF A STOCKPILE IF THE CATCHMENT EXCEEDS 1500m².
9. AT ALL TIMES THE CONTRACT ARE SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSLOPE CONSTRUCTION AND RECEIVING ENVIRONMENTS.
10. FINAL SITE LANDSCAPING SURFACE TREATMENTS SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS OF THE CONSTRUCTION OF BATTERS AND OPEN AREAS.
11. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED ONCE THE UPSLOPE SITE IS STABILISED AND COMPLETED TO THE SATISFACTION OF THE SUPERINTENDENT.

DUST SUPPRESSION

1. THE CONTRACT ARE SHALL SECURE A SUITABLE SOURCE OF WATER FOR THE PURPOSE OF DUST SUPPRESSION.
2. DURING WINDY AND DRY WEATHER ANY UNPROTECTED AREAS SHALL BE KEPT MOIST NOT WET BY SPRINKLING WITH WATER UNDER CONTROL.
3. APPLY OPEN WEAVE BARRIER FENCING ON THE WINDWARD SIDE OF SITE FENCING AS REQUIRED.
4. IF VISIBLE DUST EMISSIONS ARE OCCURRING THE WORKS ARE TO CEASE IMMEDIATELY UNTIL DUST CONTROL MEASURES ARE PUT IN PLACE AND ARE SATISFACTORY MITIGATING DUST EMISSIONS.

OTHER MATTERS

1. ACCEPTABLE RECEPTORS AND DISPOSAL PRACTICES WILL BE USED FOR CONCRETE AND MORTAR SLURRY, PAINTS, LITTER, BITUMEN, ASPHALT AND GENERAL WASTE MATERIALS.
2. ANY EXISTING TREES WHICH ARE NOT REQUIRED OR APPROVED TO BE CLEARED FOR THE WORKS AND OR FORM PART OF THE FINAL LANDSCAPING PLAN SHOULD BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   a. PROTECTING THEM WITH BARRIER FENCING OR MARKERS
   b. ENSURING NOTHING IS NAILED TO THEM
   c. PROHIBITING GRADING, PLACING STOCKPILES OR TRACKING MACHINERY WITHIN THE DRIP LINES.
3. ALL VEHICLE AND EQUIPMENT MAINTENANCE, REFUELLING AND CLEANING ACTIVITIES SHOULD BE CONTAINED IN SPECIFIC BONDED AREAS DISCONNECTED FROM CONCENTRATED FLOW PAST AND THE STORMWATER SYSTEM.
4. ON SITE FUEL STORAGE AREAS SHOULD BE COVERED AND BUNDED.

MAINTENANCE OF PUBLIC ROADS

1. ALL CONSTRUCTION VEHICLES DEPARTING THE SITE SHALL HAVE THEIR TYRES CLEANED DOWN AND SETTLED BY A STABILISED ACCESS DEVICE.
2. THE NOMINATED STABILISE SITE ACCESS AREAS SHALL BE LOCATED AS SHOWN AND TREATED WITH A SEDIMENT FENCE OR BUNDED AREA DOWNSTREAM OF THE ACCESS.
3. THE CONTRACTOR SHALL INSPECT THE PUBLIC ROADS ADJACENT TO THE WORKSITES DAILY AND MANUALLY REMOVE ANY SENTIMENT DEPOSITS BY MECHANICAL SWEEPING NOT WASHED DOWN.
4. CARE MUST BE TAKEN WHEN IMPLEMENTING THE ESC MEASURES IMMEDIATELY ADJACENT TO THE ROAD PAVEMENT SO THAT THE EXISTING CATCH DRAIN AND OVERLAND FLOW PATH CAPACITIES ARE NOT IMPEDED OR DIVERTED ONTO THE PAVEMENT.
5. ALL ESC MEASURES AND WORKS WITHIN 10M OF THE EDGE OF THE TRAFFIC LANE MUST BE REVIEWED BY A TRAFFIC CONTROL CONSULTANT AND CONSIDERED IN THE WORKS TRAFFIC CONTROL PLAN.

SITE INSPECTION AND MAINTENANCE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED REGULARLY IMMEDIATELY PRIOR TO PREDICTED LARGE STORM EVENTS AND AFTER EVERY SIGNIFICANT RAINFALL EVENTS OR AT LEAST ON A WEEKLY BASIS.
2. THE CONTRACTOR WILL AS A MINIMUM CONDUCT EACH INSPECTION IN LINE WITH THE FOLLOWING
   a. RECORD THE TYPE OF DEVICE CONTROL MEASURE BEING INSPECTED AND ITS LOCATION AND CONDITION;
   b. RECORD ALL MAINTENANCE REQUIREMENTS FOR THE CONTROL DEVICE;
   c. ASSESS AND RECORD SEDIMENT VOLUMES REMOVED FROM THE SEDIMENT TRAPPING DEVICES
   d. RECORD DETAILS OF SEDIMENT BASIN TREATMENT FLOCCULENT DOSAGES AND CLEANUP
   e. RECORD SEDIMENT DISPOSAL PROCEDURES AND LOCATION;
   f. COMMENT ON THE PERFORMANCE OF THE DEVICE AND RECOMMENDATIONS FOR ANY REMEDIAL ACTION.
3. ALL REPAIRS AND MAINTENANCE OF THE DEVICES AND MEASURES SHALL BE UNDERTAKEN AS REQUIRED ENSURING THAT ALL MEASURES ARE FULLY FUNCTIONAL AT ALL TIMES.
4. ENSURE THAT SEDIMENT LADEN WATER HAS NOT BEEN DIVERTED AROUND DEVICES AND IF SO PROVIDE PLAN FOR CLEAN UP.
5. REPAIR SCOUR DAMAGE AFTER RAINFALL EVENTS AND REINSTATE DEVICES AS NECESSARY.
6. SEDIMENT FENCES WILL REQUIRE CLEANING WHEN SEDIMENT REACHES APPROXIMATELY 300 MM DEPTH OR ONE-HALF OF THE HEIGHT OF THE FILTER FABRIC. ALL OTHER SEDIMENT TRAPS WILL REQUIRE CLEANING OUT WHEN 30% OF THE CAPACITY IS REACHED.
7. ALL INTERNET AND GULLY TRAPS TO BE CLEANED (NOT HOSED) AFTER EVERY RAINFALL EVENT 1 TO 5 MM OR AT LEAST ON A WEEKLY BASIS.
8. SENTIMENT REMOVED FROM ANY TRAPPING DEVICE IS TO BE RELOCATED TO ENSURE THAT FURTHER POLLUTION TO THE DOWNSTREAM ENVIRONMENTS WILL NOT OCCUR.
9. ALL AREAS THAT ARE TREATED WITH HYDROSEEDING SEEDING OR TURFING REQUIRE REGULAR WATERING UNTIL EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOUROUSLY. WATERING SHOULD VARY DEPENDING ON WEATHER AND SOIL CONDITIONS.
10. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE INSPECTION AND MAINTENANCE OF DEVICES IS UNDERTAKEN ON SITE.
11. ALL SITE WASTE INCLUDING GENERAL RUBBISH SHALL BE DISPOSED OF IN AN ENVIRONMENTALLY RESPONSIBLE MANNER IN ACCORDANCE WITH THE SITES WASTE MANAGEMENT PLAN.
12. THE CONTRACTOR SHALL CONSTRUCT AND IMPLEMENT ANY ADDITIONAL MEASURES AS NECESSARY TO ENSURE PROTECTION OF THE DOWNSTREAM ENVIRONMENTS.
13. THE CONTRACT ARE SHALL IDENTIFY ANY NON-CONFORMANCES WITH THE REQUIREMENTS OF THIS DOCUMENT APPROPRIATE CORRECTIVE ACTION SHALL BE IMPLEMENTED TO ENSURE THAT THE NON-CONFORMANCES DO NOT RECUR.
14. IN THE EVENT THAT A MONITORING PROGRAM DETECTS A NOTABLE FAILURE TO ACHIEVE THE REQUIRED OF CONTROL SITE, SEDIMENT OR DUST THE SITE SHALL BE INVESTIGATED BY A SUITABLE QUALIFIED ENGINEER AND THE ESCP SUITABLY MODIFIED TO ENSURE INCIDENTS DO NOT RECUR.

Released under RTI - For Review

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STANDARD NOTES

DEVEL		DATE : JUL 2024	
PROJE	ETCHER	DESIGNER : TG	
DRAFT		CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R	RPEQ No. : 10888		
SCALE	DATUM : AHD	FULL SIZE : A1	
PROJE	DRAWING No. : C801	VERSION: D	

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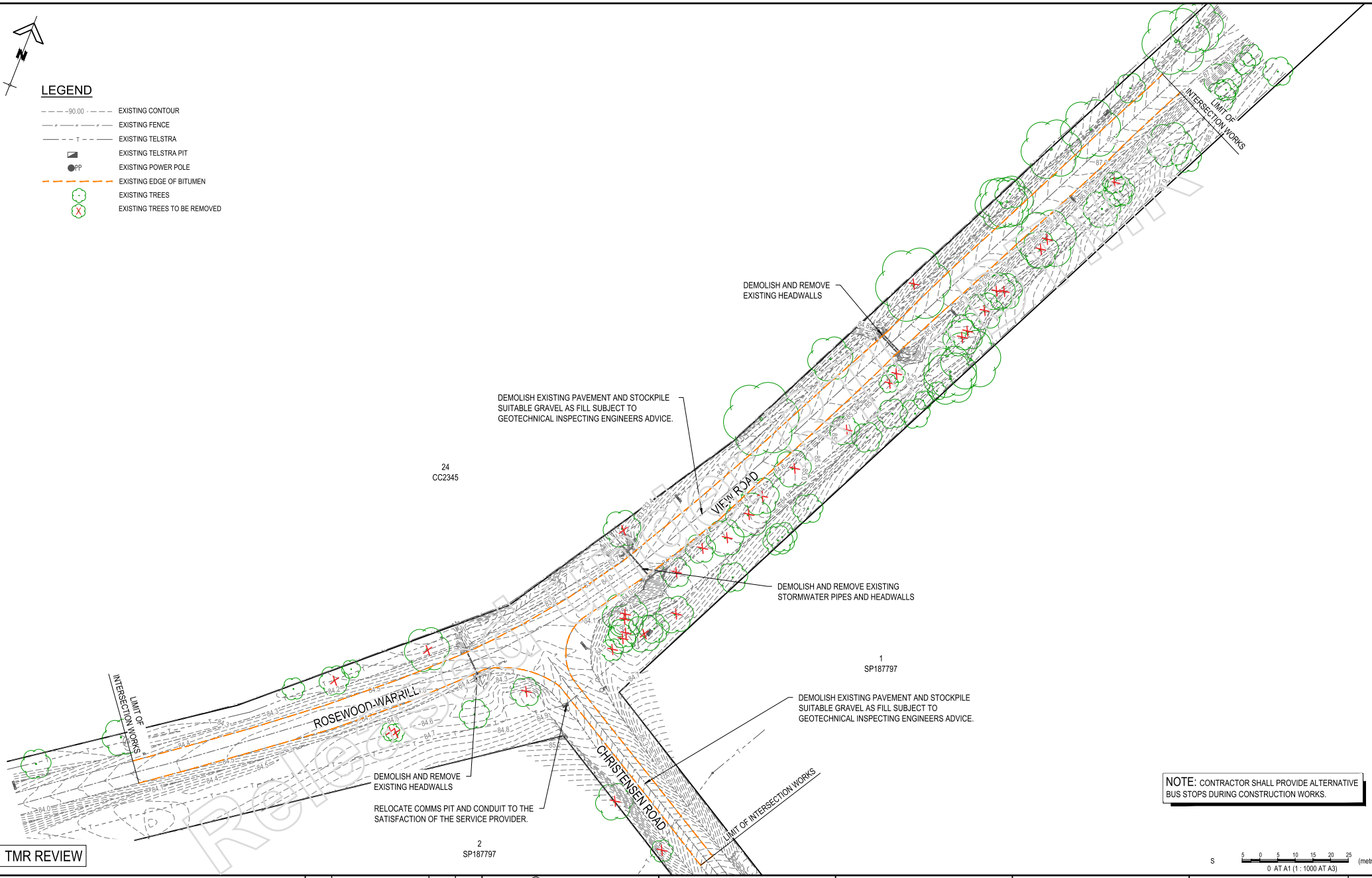
PLOTTED: 14 Mar 2025



Released under RTI

PLOTTED: 14 Nov 2025
FILENAME: N:\Q1\Q1 Yamana Ltd Co\Q1025 - Documents\Q1025250204 MW Walker Quarry Access Rd\03_Civil\01_DA\Dwg A3\02_Acad\C820 DEMOLISH LAYOUT PLAN.dwg

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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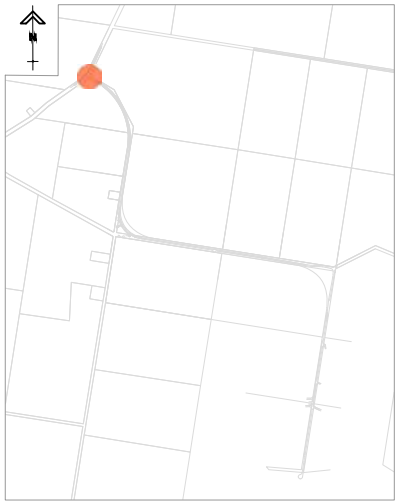
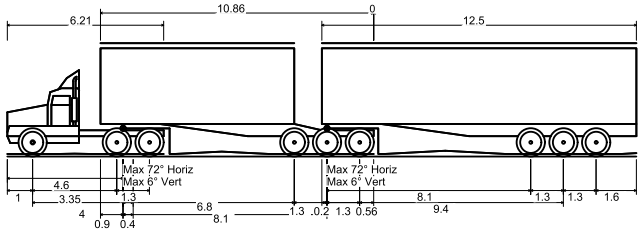
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
DEMOLITION LAYOUT PLAN

DEVEL.		DATE : JUL 2024	
PROJEC	LETCHER	DESIGNER : TG	
DRAFTS		CHECKED : NIGEL FLETCHER	
APPROV.	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10588	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJEC		DRAWING No. : C820	VERSION: B



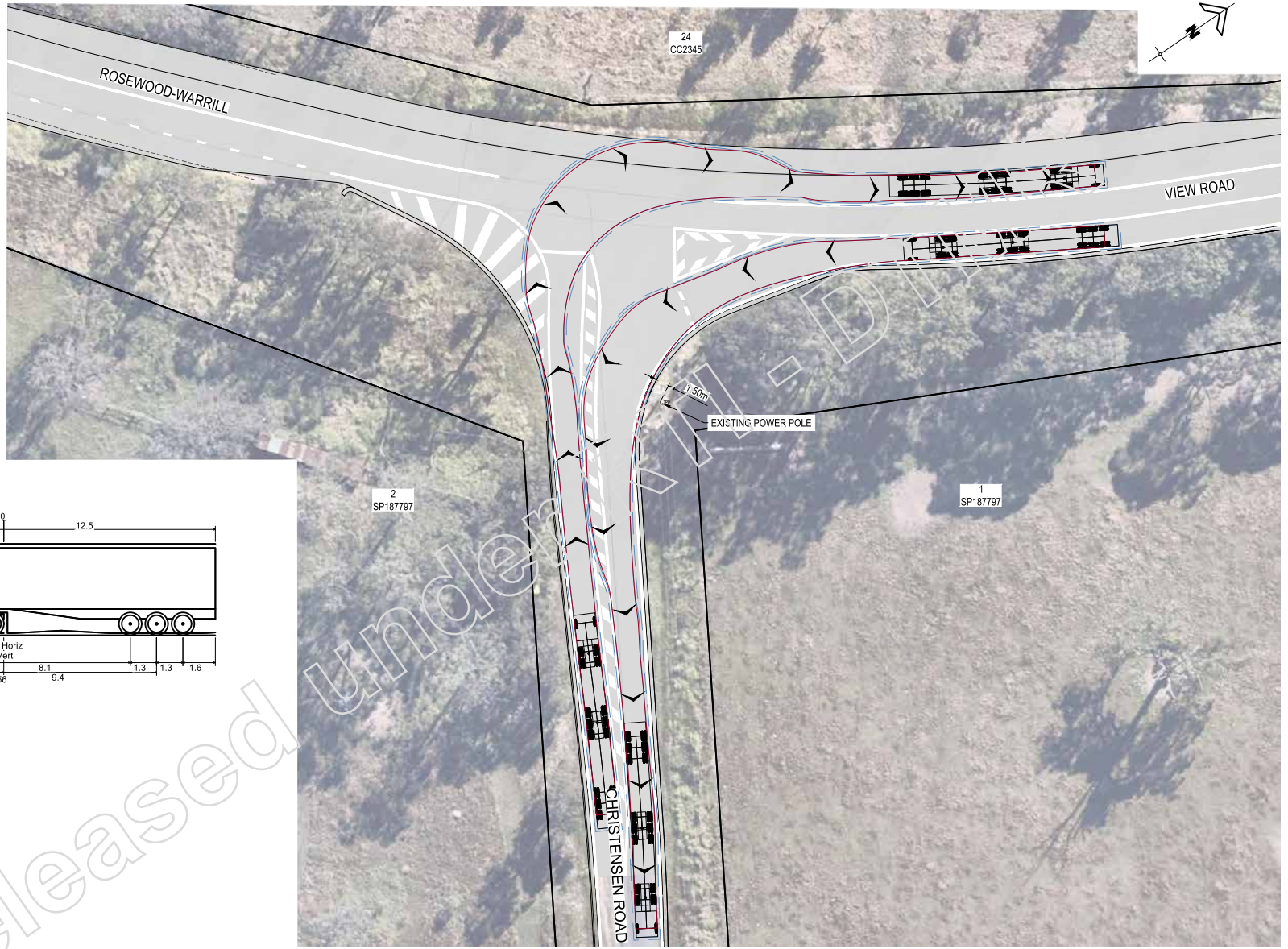
KEY PLAN
N.T.S.



B-DOUBLE (25.0m)	
OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT



m B-DOUBLE TURNING RIGHT OUT AND LEFT IN

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

TMR REVIEW

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR REVIEW	NF	14.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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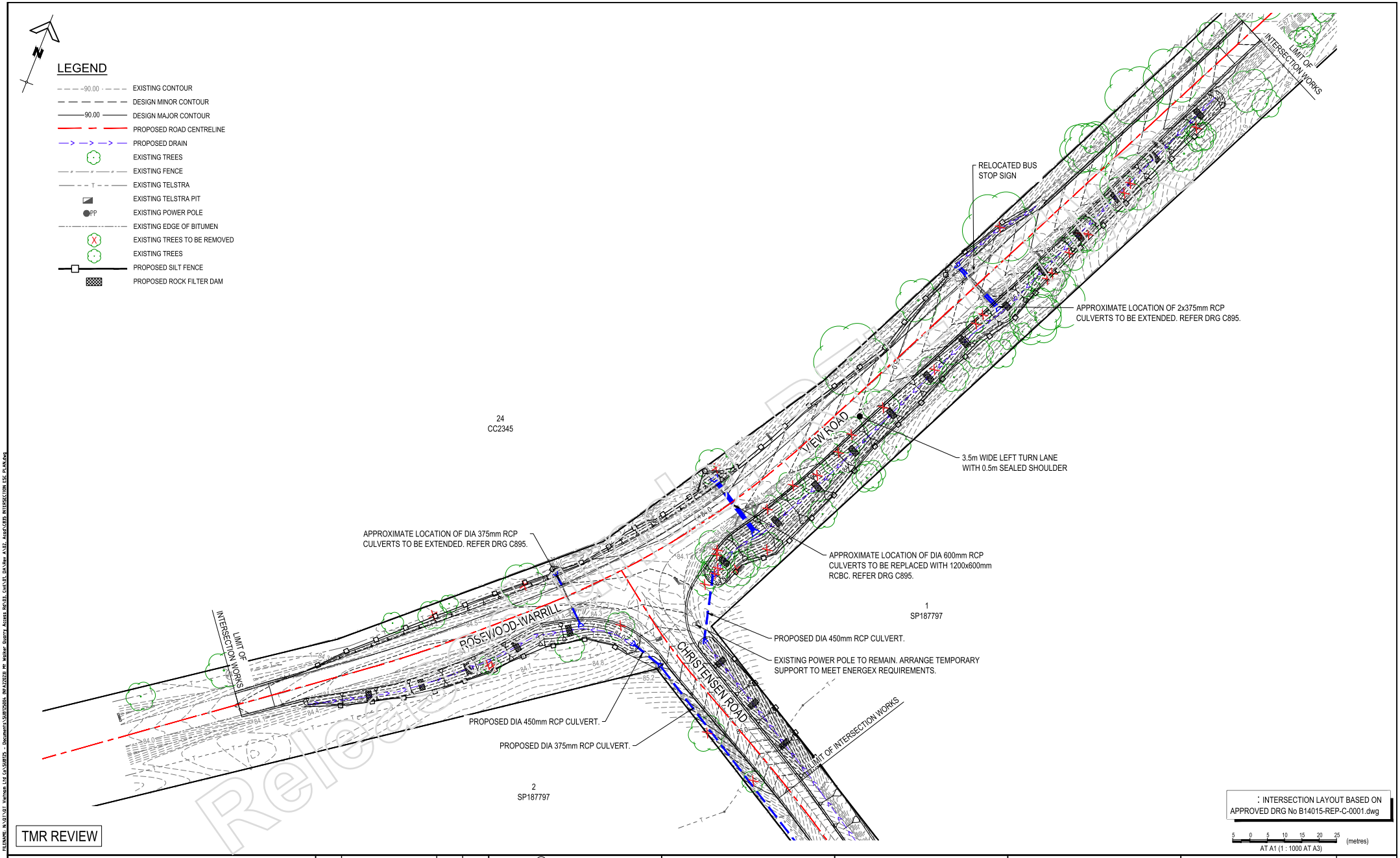
PROJECT:
MT WALKER QUARRY
ACCESS ROAD
INTERSECTION UPGRADE
ROSEWOOD-WARRILL
VALLEY VIEW ROAD AT
CHRISTENSEN ROAD

DRAWING TITLE :
25M B-DOUBLE SWEPT
PATH LAYOUT PLAN

DEV		DATE : JUL 2024	
PRO	LETCHER	DESIGNER : TG	
DRA		CHECKED : NIGEL FLETCHER	
APP	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCA		DATUM : AHD	FULL SIZE : A1
PRO		DRAWING No. : C825	VERSION: C

FILENAME: N:\GIS\GIS Vantsen Ltd Co\SURVEYS_ Documents\SURVEY0004_RW-AZ2023 MT Walker Quarry Access Rd\03_Civil\01_DA\Dwg A\02_Acad\AS25 25m DOUBLE SWEPT PATH LAYOUT PLAN.dwg

PLOTTED: 14 Mar 2025



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ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR REVIEW	NF	14.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION EROSION AND SEDIMENTATION CONTROL PLAN

DEVE		DATE : JUL 2024	
PROJ	ETCHER	DESIGNER : TG	
DRAF		CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R	RPEQ No. : 10888		
SCAL	DATUM : AHD	FULL SIZE : A1	
PROJ	DRAWING No. : C835	VERSION: C	

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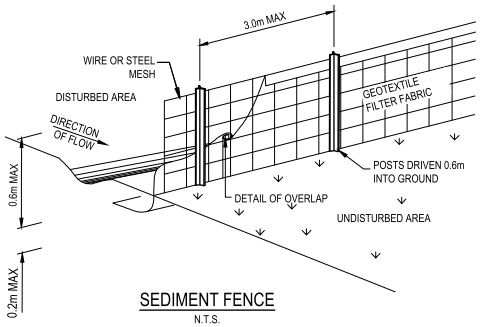
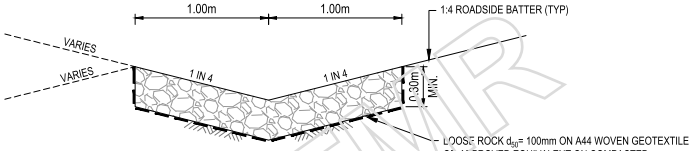
PLOTTED: 14 Mar 2025

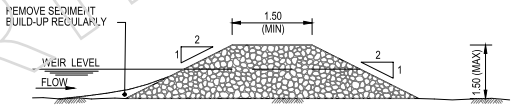


SEDIMENT FENCE
N.T.S.

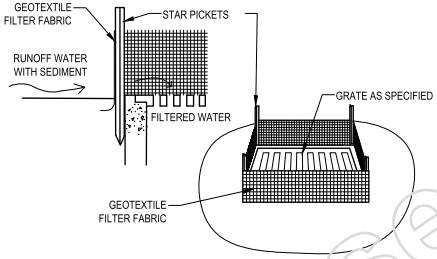
NOTE: REFER TO IECA STANDARD DRAWINGS & NOTES FOR ALL ADDITIONAL SEDIMENT CONTROL DETAILS.



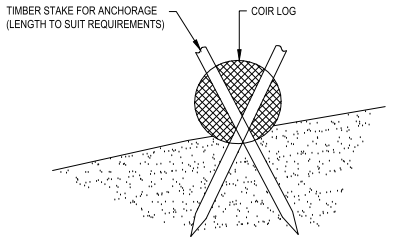
PROPOSED DRAIN ((PERMANENT))
(MIN. FALL 1%)
SCALE 1:20



DRAIN LONGITUDINAL SECTION ROCK FILTER DAM
SCALE 1:50



GEOTEXTILE FILTER PIT SURROUND
N.T.S.



STAKED COIR LOG DETAIL
N.T.S.

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TMR REVIEW

1.0 0 1.0 2.0 (metres)
1 : 50 AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR REVIEW	NF	14.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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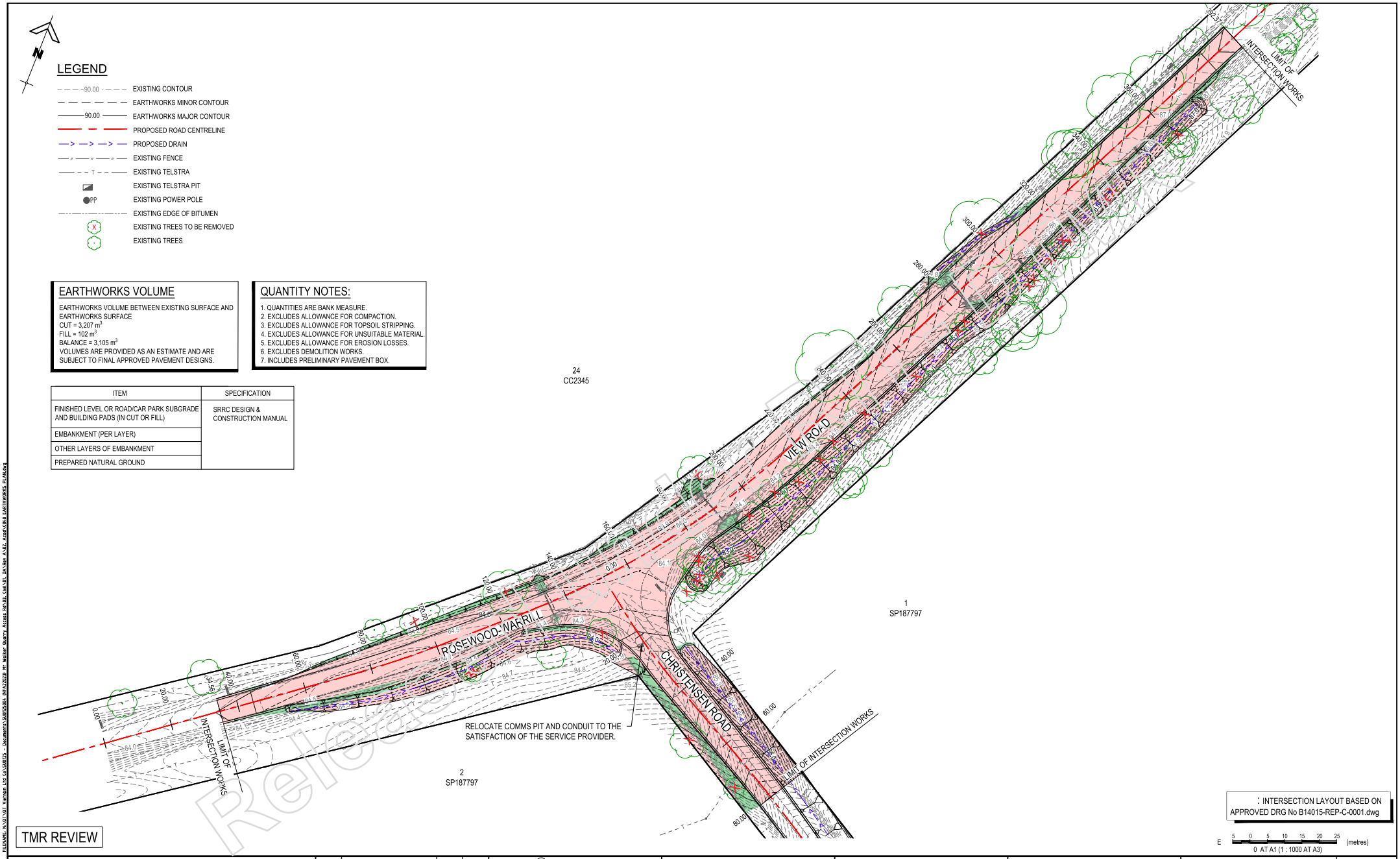
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION EROSION AND SEDIMENTATION CONTROL DETAILS

DEVE		DATE : JUL 2024	
PROJ	ETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C836	VERSION: C

FILENAME: N:\GIS\GIT Vaxham Ltd Co\SUB725 - Documents\SUB725264_RWA22828 Mt Walker Quarry Access Rds\GIS\LOT DATA\Dwg A3\Z_Assoc\ERS INTERSECTION ESC PLAN.dwg
PLOTTED: 14 May 2025



PLOTTED: 14 May 2025
FILENAME: N:\GC\GC1 Vanhan Ltd t/a\GC0725 - Documents\GC0725C004_MW-A220228 Mt Walker Quarry Access Rd\03_Civil\01_DA\Dwg A\02_Acad\C840 EARTHWORKS PLAN.dwg

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1
0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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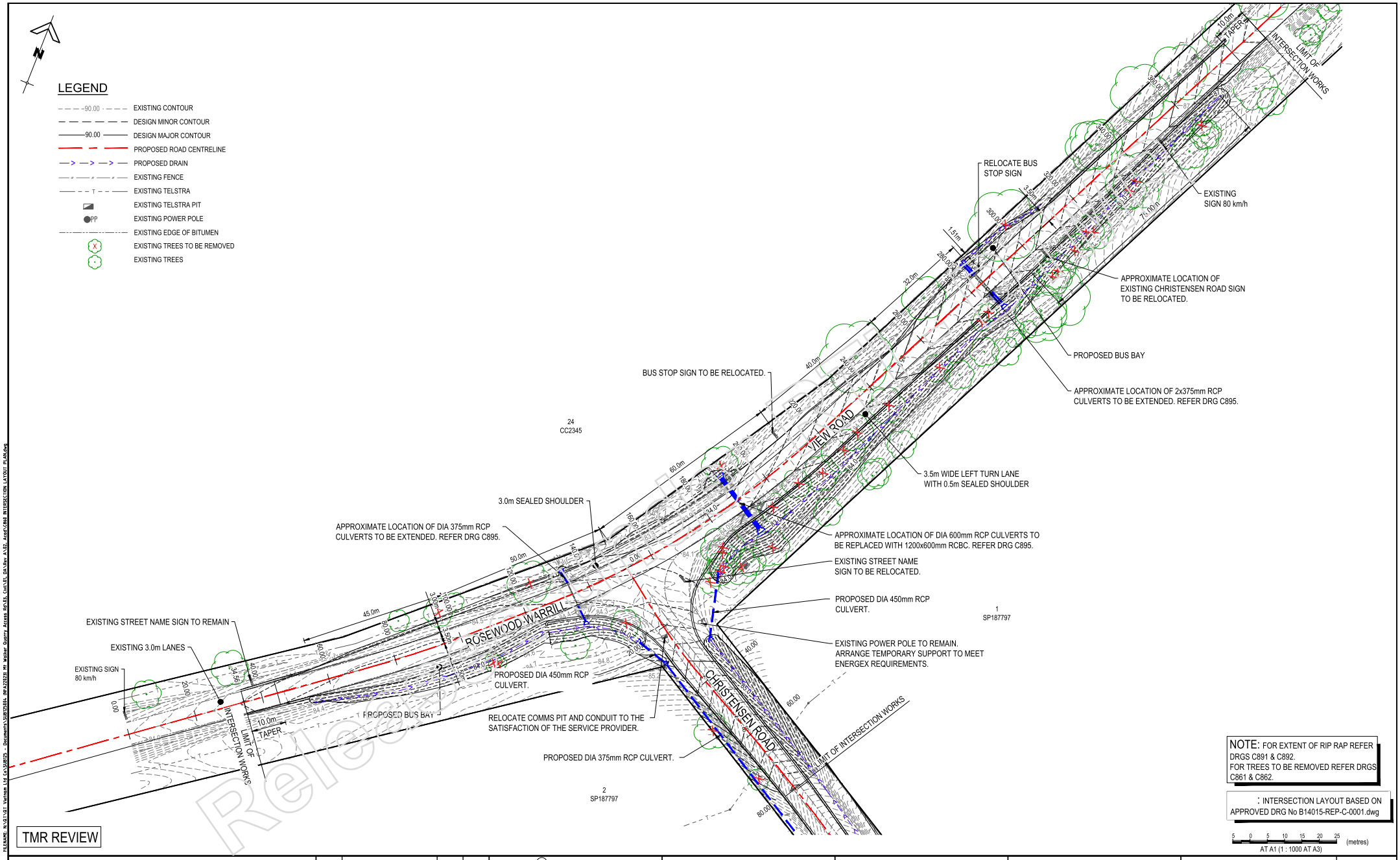
NIGEL FLETCHER & ASS PTY LTD
ENGINEERS · PROJECT
PO BOX 7217
SOUTHPORT PARK QLD 4215
N/R
terrassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION EARTHWORKS LAYOUT PLAN

DEVEL		DATE : JUL 2024	
PROJE	LETCHER	DESIGNER : TG	
DRAFT		CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R	RPEQ No. : 10888		
SCALE	DATUM : AHD	FULL SIZE : A1	
PROJE	DRAWING No. : C840	VERSION: B	

RTI-Release.pdf - Page Number: 192 of 448



NOTE: FOR EXTENT OF RIP RAP REFER DRGS C891 & C892.
FOR TREES TO BE REMOVED REFER DRGS C861 & C862.

: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

5 0 5 10 15 20 25 (metres)
AT A1 (1 : 1000 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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E: nigel@fletcherassociates.com.au
N/R

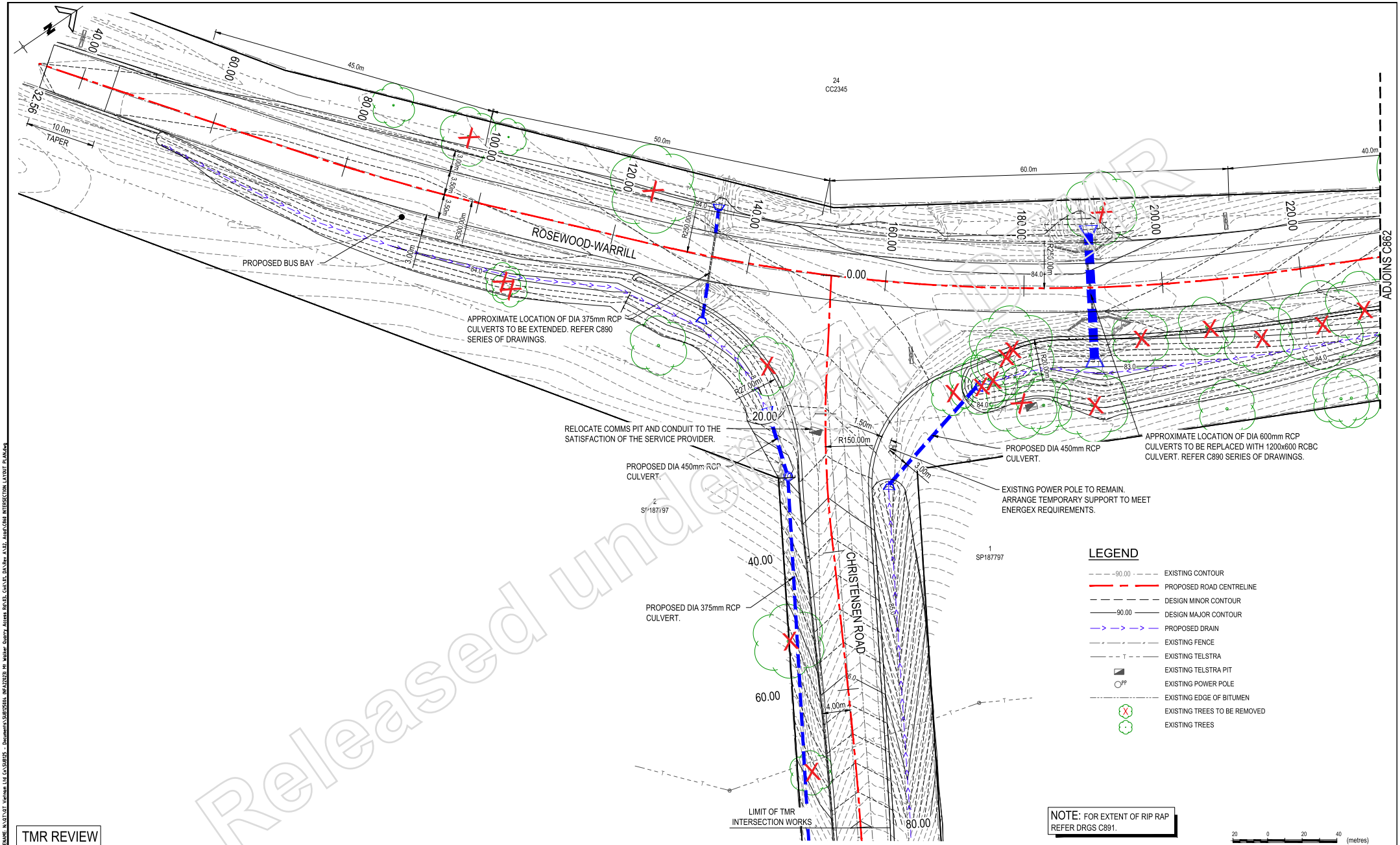
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROAD INTERSECTION OVERALL LAYOUT PLAN

DEVE			DATE : JUL 2024
PROJ	ETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPRO	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C860	VERSION: D

PLOTTED: 14 Nov 2025
FILENAME: N:\Q1\Q1 Various Ltd Cx\Q18025 - Documents\Q18025R4_MW_ACCESS\R4 Mt Walker Quarry Access Rds\ES_Civil\ES_DRA\Dwg_A3\E_Acad\CR04 INTERSECTION_LAYOUT_PLAN.dwg

RTI-Release.pdf - Page Number: 193 of 448



Released under the RTI Act

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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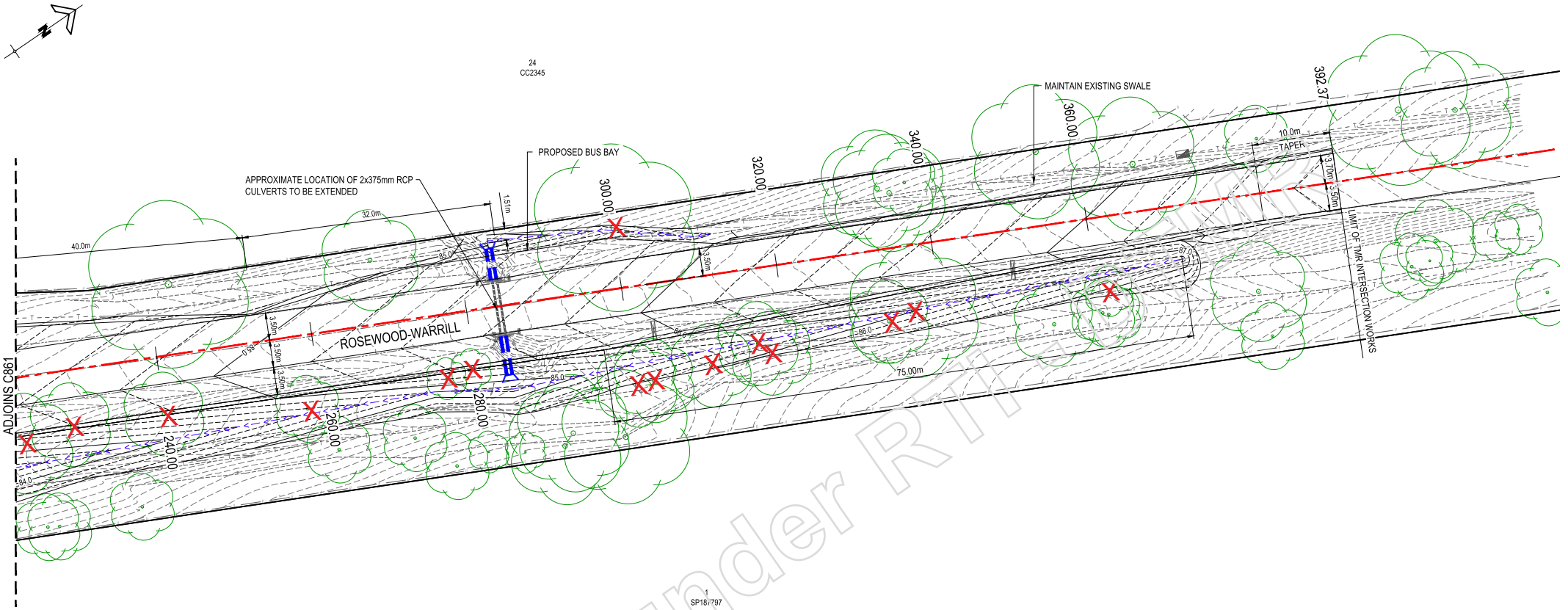
N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROAD INTERSECTION LAYOUT PLAN SHEET 1 OF 2

DEV			DATE : JUL 2024
PRO	FLETCHER	DESIGNER : TG	
DRA	B	CHECKED : NIGEL FLETCHER	
APP	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
	N/R	RPEQ No. : 10888	
SCA		DATUM : AHD	FULL SIZE : A1
PRO		DRAWING No. : C861	VERSION: D

PLOTTED: 14 Mar 2025
FILENAME: N:\GT\GT Vietnam Ltd (a\GT025 - Documents\GT025084_RFA224239 Mt Walker Quarry Access RdWIS, Civil\05 DIA\Dwg A1\02. Acad\C864 INTERSECTION LAYOUT PLAN.dwg



LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES TO BE REMOVED
- EXISTING TREES

NOTE: FOR EXTENT OF RIP RAP REFER DRGS C892.

20 0 20 40 (metres)
50 AT A1 (1 : 500 AT A3)

TMR REVIEW

Released under RTI

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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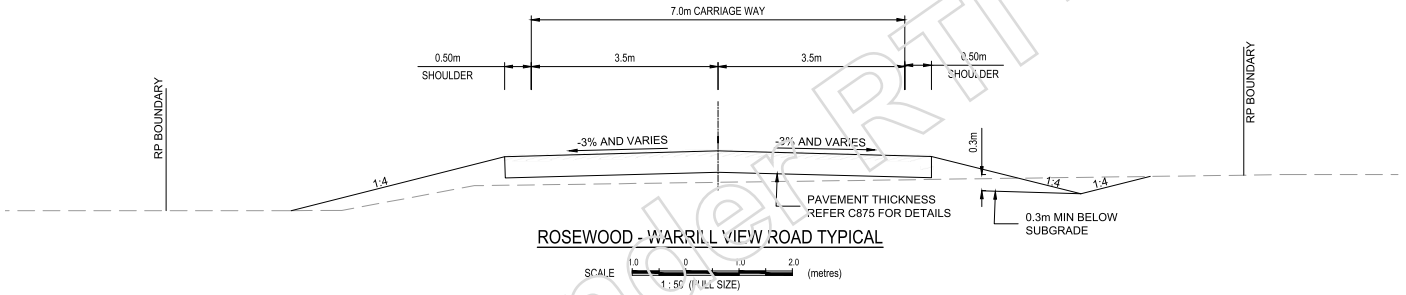
PROJECT:
MT WALKER QUARRY ACCESS
ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW
ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROAD INTERSECTION
LAYOUT PLAN SHEET 2 OF 2

DEVEL	DATE : JUL 2024
PROJE LETCHER	DESIGNER : TG
DRAFT B	CHECKED : NIGEL FLETCHER
APPRO. N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
	RPEQ No. : 10888
SCALE	DATUM : AHD / FULL SIZE : A1
PROJE	DRAWING No. : C862 / VERSION: D

PLOTTED: 14 Mar 2025
PLENAME N:\QT\QT Vietnam Ltd (a\QS0325 - Documents\QS0325041_RFA224239 Mt Walker Quarry Access RdV3\3. Civil\4t DA\Dwy A\02. Acad\C864 INTERSECTION LAYOUT PLAN.dwg



ROSEWOOD - WARRILL VIEW ROAD TYPICAL

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

Released under RTI - DTMR

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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PO BOX 7217
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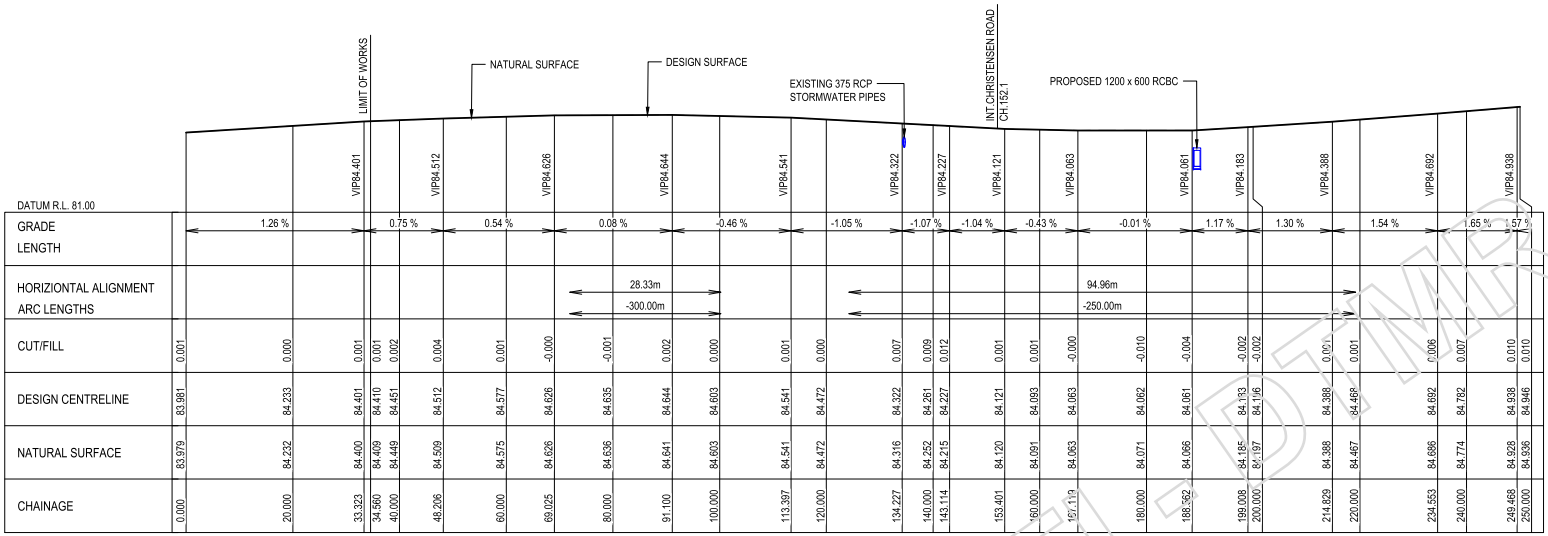
nfassociates.com.au

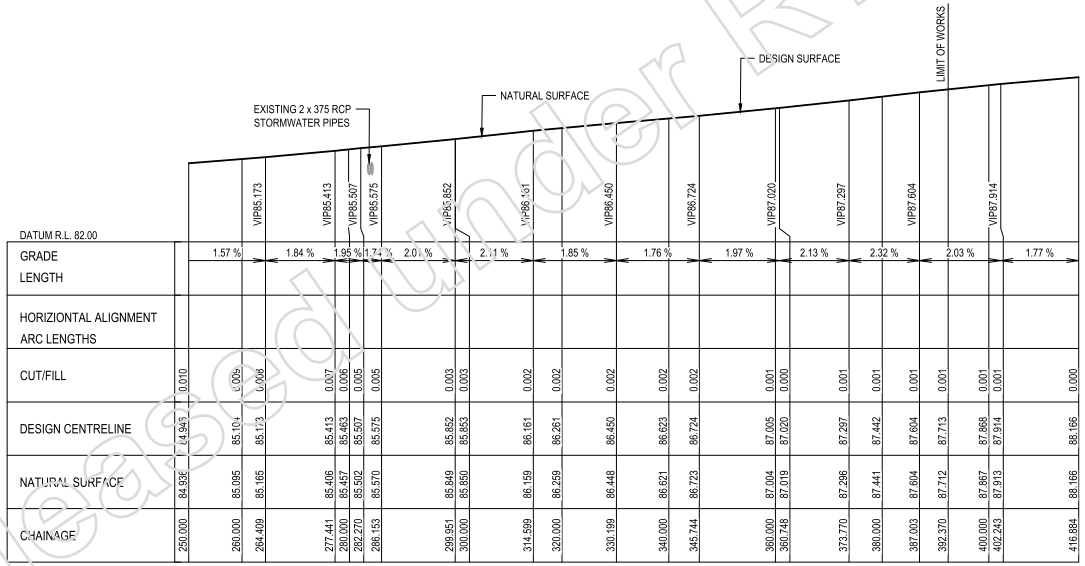
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD DETAILS

DEVEL			DATE : JUL 2024
PROJE	LETCHER	DESIGNER : TG	
DRAFT	B	CHECKED : NIGEL FLETCHER	
APPRO	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJE		DRAWING No. : C863	VERSION: B

FILENAME: N:\GIS\GIS Various Ltd Cx\SUB325 - Documents\SUB325004_RWA22929 Mt Walker Quarry Access Rev10\ Civil\01 DA\Dwg A\02 Acad\C863 ROSEWOOD WARRILL VIEW ROAD DETAILS.dwg
PLOTTED: 14 Mar 2025





ROSEWOOD-WARRILL VIEW ROAD LONGITUDINAL SECTION

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)

HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)

(FULL SIZE)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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SOUTHPORT PARK QLD 4215
E: nigel@fletcherassociates.com.au
N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD LONGITUDINAL SECTIONS

DEVE	DATE : JUL 2024
PROJ ETCHER	DESIGNER : TG
DRAF B	CHECKED : NIGEL FLETCHER
APPRO N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES. RPEQ No. : 10888
SCALE	DATUM : AHD / FULL SIZE : A1
PROJ	DRAWING No. : C864 / VERSION: D

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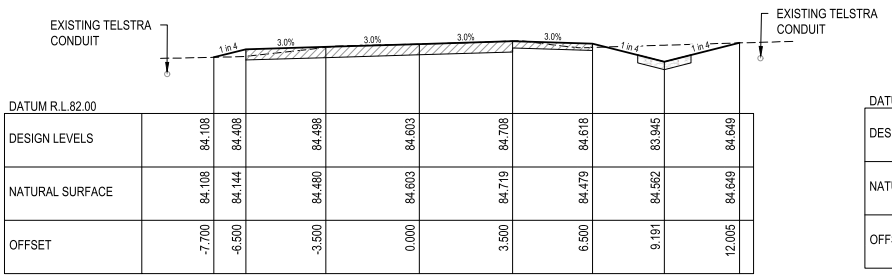
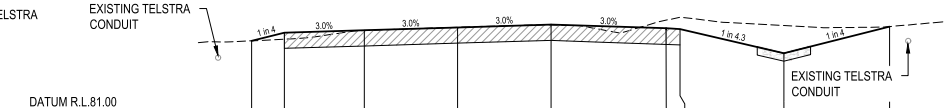


DATUM R.L.82.00

DESIGN LEVELS	84.108	84.408	84.498	84.603	84.708	84.618	83.945	84.649
NATURAL SURFACE	84.108	84.144	84.480	84.603	84.719	84.479	84.562	84.649
OFFSET	-7.700	-6.500	-3.500	0.000	3.500	6.500	9.191	12.005

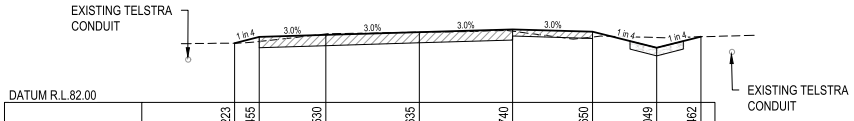
CH 100



DATUM R.L.81.00

DESIGN LEVELS	83.561	83.867	83.957	84.062	84.167	84.037	84.001	83.096	84.093
NATURAL SURFACE	83.561	83.618	83.945	84.071	84.156	84.335	84.444	84.131	84.093
OFFSET	-7.724	-6.500	-3.500	0.000	3.499	7.816	8.340	12.228	16.191

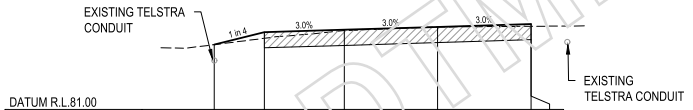
CH 180



DATUM R.L.82.00

DESIGN LEVELS	84.223	84.455	84.530	84.635	84.740	84.650	84.049	84.462
NATURAL SURFACE	84.223	84.289	84.566	84.636	84.672	84.452	84.434	84.462
OFFSET	-6.923	-5.997	-3.500	0.000	3.500	6.500	8.904	10.557

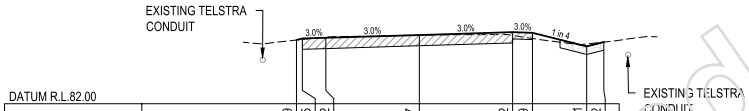
CH 80



DATUM R.L.81.00

DESIGN LEVELS	83.429	83.898	83.980	84.093	84.198	84.198
NATURAL SURFACE	83.429	83.667	83.956	84.091	84.115	84.115
OFFSET	-6.377	-6.500	-3.500	0.000	3.498	3.500

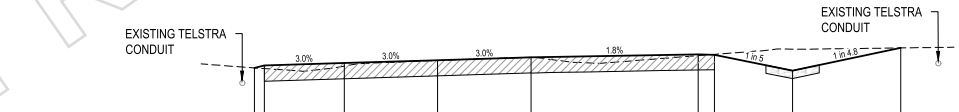
CH 160



DATUM R.L.82.00

DESIGN LEVELS	84.389	84.445	84.472	84.577	84.682	84.659	84.151	84.312
NATURAL SURFACE	84.389	84.415	84.490	84.575	84.562	84.448	84.242	84.312
OFFSET	-4.605	-4.382	-3.500	0.000	3.500	4.241	6.274	6.916

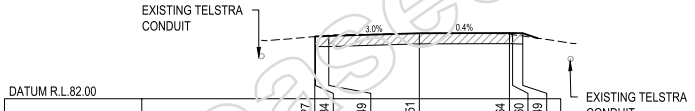
CH 60



DATUM R.L.81.00

DESIGN LEVELS	83.974	84.066	84.156	84.261	84.366	84.476	84.461	83.872	84.721
NATURAL SURFACE	83.974	83.948	84.039	84.252	84.368	84.433	84.481	84.678	84.721
OFFSET	-6.868	-6.500	-3.500	0.000	3.499	9.770	10.373	13.303	17.363

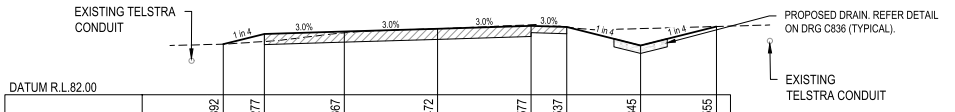
CH 140



DATUM R.L.82.00

DESIGN LEVELS	84.277	84.334	84.349	84.451	84.464	84.460	84.449
NATURAL SURFACE	84.327	84.330	84.374	84.449	84.419	84.401	84.348
OFFSET	-3.919	-3.892	-3.392	0.000	3.377	3.500	3.877

CH 40



DATUM R.L.82.00

DESIGN LEVELS	83.892	84.277	84.367	84.472	84.577	84.537	83.845	84.555
NATURAL SURFACE	83.892	83.994	84.318	84.472	84.618	84.534	84.475	84.555
OFFSET	-8.040	-6.500	-3.500	0.000	3.500	4.841	7.610	10.452

CH 120

1 0 1 2 3 4 5 (metres)

1 : 100 AT A1

TMR REVIEW

Released under RTI DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215
E: nigel@nigelfletcherassociates.com.au

N/R

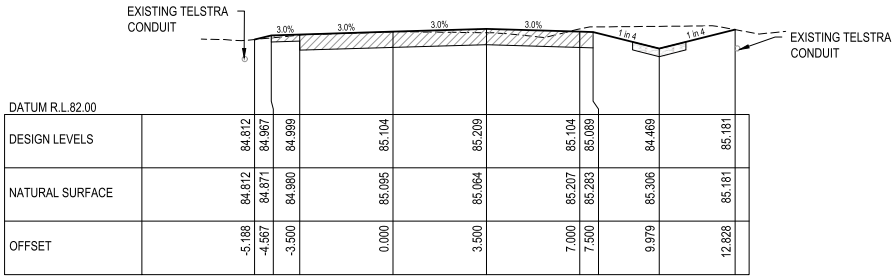
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 1 OF 3

DEVE		DATE : JUL 2024
PROJ	TCHER	DESIGNER : TG
DRAF	B	CHECKED : NIGEL FLETCHER
APPR	N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES.
		RPEQ No. : 10888
SCAL		DATUM : AHD FULL SIZE : A1
PROJ		DRAWING No. : C865 VERSION: D

FILENAME: N:\GIS\GIS Variham Ltd (a\SUB)25 - Documents\SUB)25264_RW-A22828 Mt Walker Quarry Access Rd\10_GeoLIS\10_DA\Dwg A\02_Acad\C865 ROSEWOOD WARRILL CROSS SECTIONS.dwg

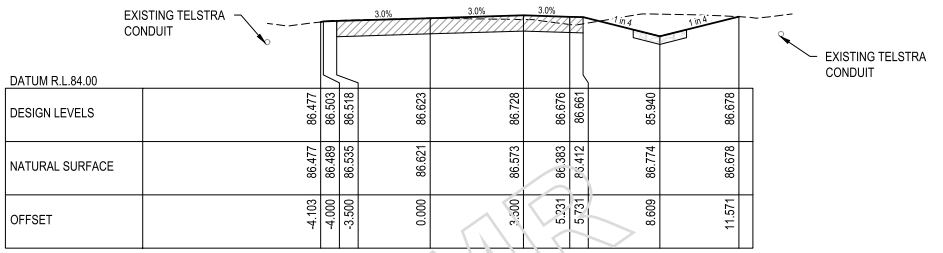
PLOTTED: 14 Mar 2025



DATUM R.L.82.00

DESIGN LEVELS	84.812	84.967	84.999	85.104	85.209	85.104	85.089	84.469	85.181
NATURAL SURFACE	84.812	84.871	84.980	85.095	85.064	85.207	85.283	85.306	85.181
OFFSET	-5.188	-4.567	-3.500	0.000	3.500	7.000	7.500	9.979	12.828

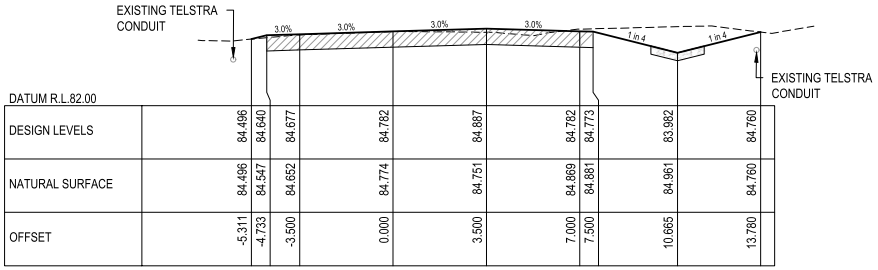
CH 260



DATUM R.L.84.00

DESIGN LEVELS	86.477	86.503	86.518	86.623	86.728	86.676	86.661	85.940	86.678
NATURAL SURFACE	86.477	86.489	86.535	86.621	86.573	86.383	83.412	86.774	86.678
OFFSET	-4.103	-4.000	-3.500	0.000	3.500	5.231	5.731	8.609	11.571

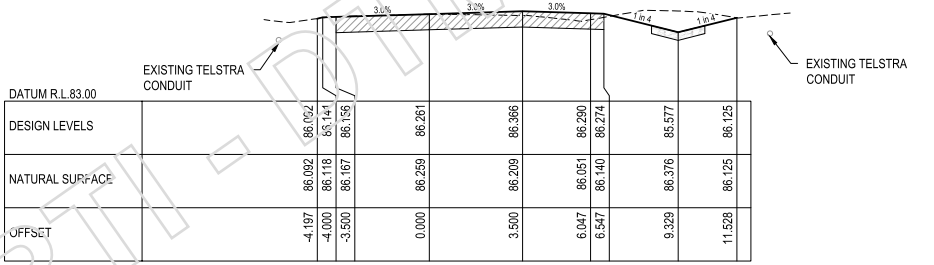
CH 340



DATUM R.L.82.00

DESIGN LEVELS	84.496	84.640	84.677	84.782	84.887	84.782	84.773	83.982	84.760
NATURAL SURFACE	84.496	84.547	84.652	84.774	84.751	84.869	84.881	84.961	84.760
OFFSET	-5.311	-4.733	-3.500	0.000	3.500	7.000	7.500	10.665	13.780

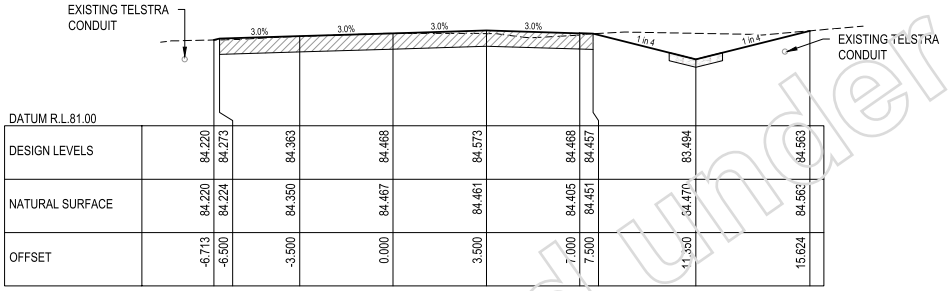
CH 240



DATUM R.L.83.00

DESIGN LEVELS	86.092	86.141	86.156	86.261	86.366	86.290	86.274	85.577	86.125
NATURAL SURFACE	86.092	86.118	86.167	86.259	86.209	86.051	86.140	86.376	86.125
OFFSET	-4.197	-4.000	-3.500	0.000	3.500	6.047	6.547	9.329	11.528

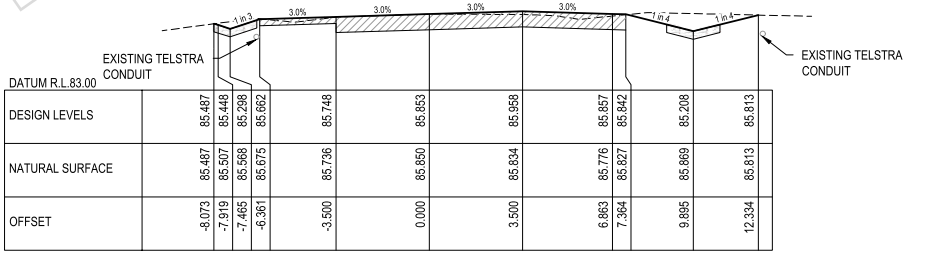
CH 320



DATUM R.L.81.00

DESIGN LEVELS	84.220	84.273	84.363	84.468	84.573	84.468	84.457	83.494	84.563
NATURAL SURFACE	84.220	84.224	84.350	84.467	84.461	84.405	84.451	84.470	84.562
OFFSET	-6.713	-6.500	-3.500	0.000	3.500	7.000	7.500	11.350	15.624

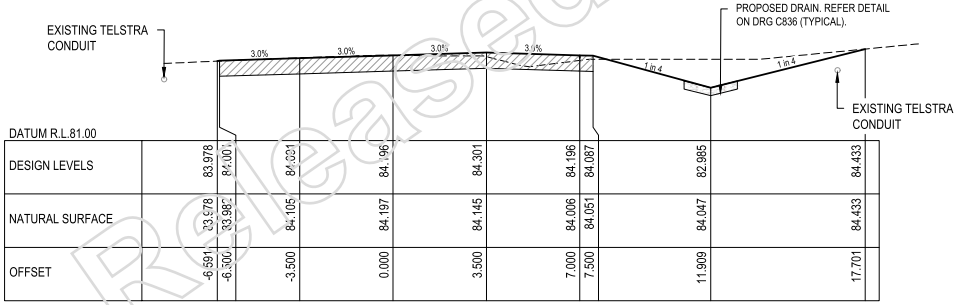
CH 220



DATUM R.L.83.00

DESIGN LEVELS	85.487	85.448	85.298	85.662	85.748	85.853	85.958	85.857	85.842	85.208	85.813
NATURAL SURFACE	85.487	85.507	85.568	85.675	85.736	85.850	85.834	85.776	85.827	85.869	85.813
OFFSET	-8.073	-7.919	-7.465	-6.361	-3.500	0.000	3.500	6.863	7.364	9.895	12.334

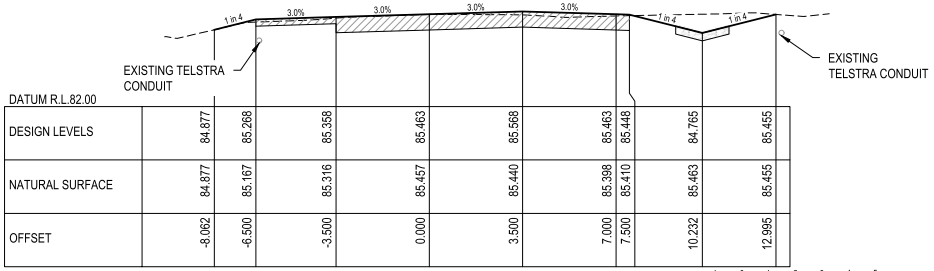
CH 300



DATUM R.L.81.00

DESIGN LEVELS	83.978	84.001	84.031	84.196	84.301	84.196	84.087	82.985	84.433
NATURAL SURFACE	83.978	83.985	84.105	84.145	84.197	84.006	84.051	84.047	84.433
OFFSET	-6.591	-6.500	-3.500	0.000	3.500	7.000	7.500	11.909	17.701

CH 200



DATUM R.L.82.00

DESIGN LEVELS	84.877	85.268	85.358	85.463	85.568	85.463	85.448	84.765	85.455
NATURAL SURFACE	84.877	85.167	85.316	85.457	85.440	85.398	85.410	85.463	85.455
OFFSET	-8.062	-6.500	-3.500	0.000	3.500	7.000	7.500	10.232	12.995

CH 280

1 0 1 2 3 4 5 (metres)

1 : 100 AT A1

Released under RTI - DTMR

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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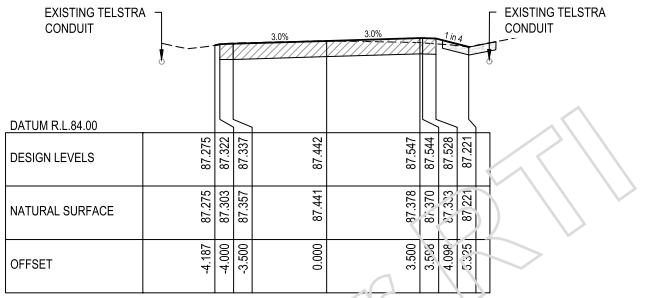
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 2 OF 3

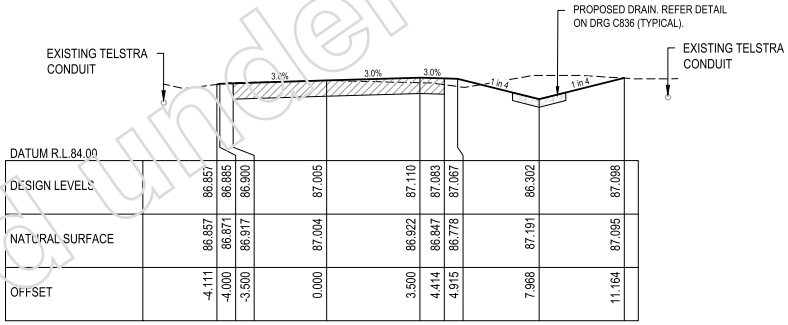
DEVE		DATE : JUL 2024
PROJ	ETCHER	DESIGNER : TG
DRAF	B	CHECKED : NIGEL FLETCHER
APPR	N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES.
		RPEQ No. : 10888
SCAL	DATUM : AHD	FULL SIZE : A1
PROJ	DRAWING No. : C866	VERSION: D

FILENAME: N:\GC\GCT Variham Ltd Co\GJ0725 - Documents\GJ0725E04_MW_AZ2020 MT Walker Quarry Access Rev\E0_Civil\E1_DA\Dwg A\E2_Assc\C866_ROSEWOOD WARRILL CROSS SECTIONS.dwg

PLOTTED: 14 Mar 2025



CH 380



CH 360

Released under RTI - DTMR

TMR REVIEW

1 0 1 2 3 4 5 (metres)
1 : 100 AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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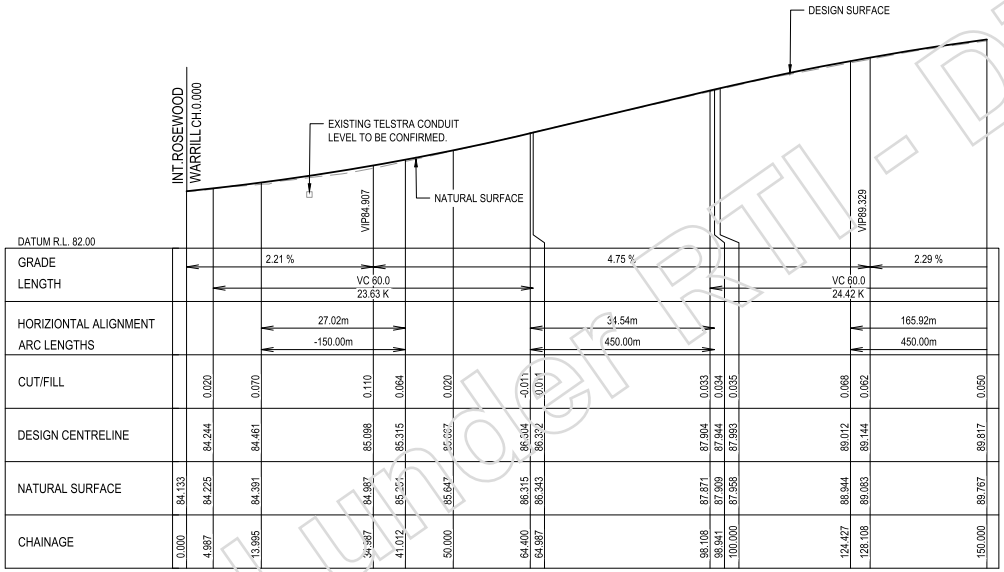
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 3 OF 3

DEVE			DATE : JUL 2024
PROJ	LETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
SCAL	N/R	RPEQ No. : 10888	
	DATUM : AHD		FULL SIZE : A1
PROJ	DRAWING No. : C867		VERSION: D

FILENAME: N:\GC\GCT Varham Ltd Co\GC0725 - Documents\GC0725264_RW-A22828 Mt Walker Quarry Access Rd\8_Civil\01_DA\Dwg A\02_Acad\C865 ROSEWOOD WARRILL CROSS SECTIONS.dwg
PLOTTED: 14 Mar 2025



CHRISTENSEN ROAD LONGITUDINAL SECTION

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)

HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)

(FULL SIZE)

Released under RTI - DTMR

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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E: N/R@fletcherassociates.com.au

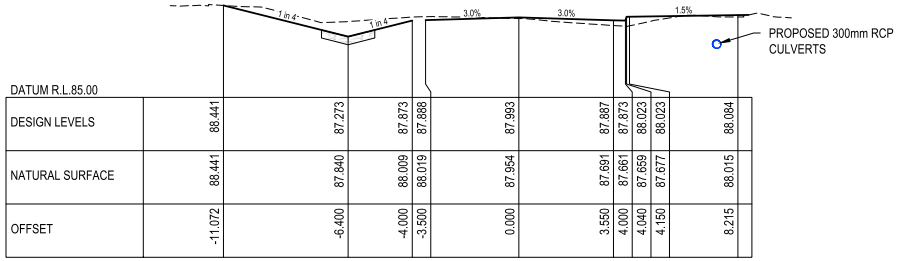
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
CHRISTENSEN ROAD LONGITUDINAL SECTION

DEVE		DATE : JUL 2024	
PROJ	LETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPRO	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C868	VERSION: D

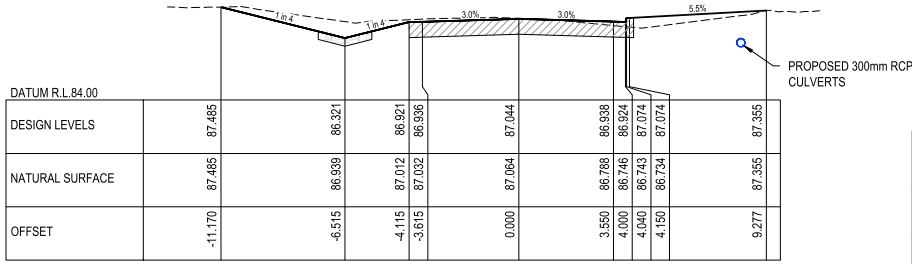
FILENAME: N:\GIS\GIS Various Ltd Cx\SUB725 - Documents\SUB725D01_MWA22028 Mt Walker Quarry Access Rev\01_Civil\01_DA\Dwg A\02_Acad\C861_ROSEWOOD WARRILL LONG SECTION.dwg

PLOTTED: 14 Mar 2025



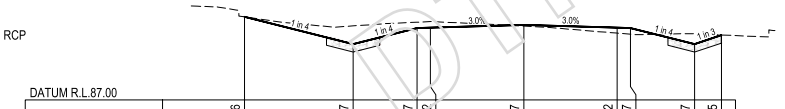
DATUM R.L.85.00									
DESIGN LEVELS	88.441	87.273	87.873	87.888	87.993	87.887	87.873	88.023	88.084
NATURAL SURFACE	88.441	87.840	88.009	88.019	87.954	87.691	87.661	87.659	87.677	88.015
OFFSET	-11.072	-6.400	-4.000	-3.500	0.000	3.550	4.000	4.040	4.150	8.215

CH 100



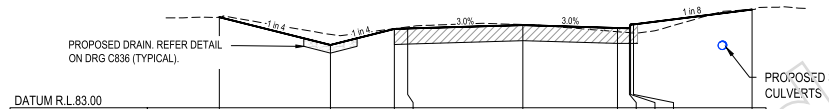
DATUM R.L.84.00									
DESIGN LEVELS	87.485	86.321	86.921	86.936	87.044	86.938	86.924	87.074	87.074	87.355
NATURAL SURFACE	87.485	86.939	87.012	87.032	87.064	86.788	86.746	86.743	86.734	87.355
OFFSET	-11.170	-6.515	-4.115	-3.615	0.000	3.550	4.000	4.040	4.150	9.277

CH 80 (LIMIT OF TMR INTERSECTION WORKS)



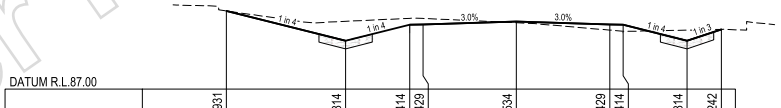
DATUM R.L.87.00									
DESIGN LEVELS	90.116	89.097	89.697	89.712	89.817	89.712	89.697	89.097	89.435
NATURAL SURFACE	90.116	89.776	89.915	89.938	89.770	89.504	89.464	89.478	89.435
OFFSET	-10.472	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.413

CH 150



DATUM R.L.83.00									
DESIGN LEVELS	86.396	85.356	85.956	85.971	86.100	85.994	85.980	86.130	86.130	86.688
NATURAL SURFACE	86.396	85.751	85.969	86.035	86.123	85.855	85.818	85.815	85.806	86.688
OFFSET	-11.377	-7.215	-4.815	-4.315	0.000	3.550	4.000	4.040	4.150	8.561

CH 60

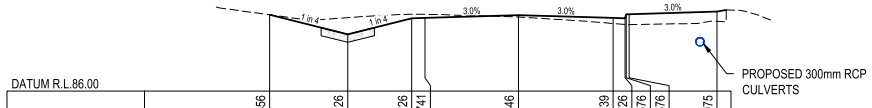


DATUM R.L.87.00									
DESIGN LEVELS	89.931	88.814	89.414	89.429	89.534	89.429	89.414	88.814	89.242
NATURAL SURFACE	89.931	89.545	89.656	89.651	89.491	89.215	89.174	89.215	89.242
OFFSET	-10.868	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.683

CH 140

DATUM R.L.82.00									
DESIGN LEVELS					84.738				84.601	84.587	84.737	84.737
NATURAL SURFACE					84.656				84.743	84.764	84.765	84.767
OFFSET					0.000				4.556	5.006	5.046	5.156

CH 23.89



DATUM R.L.86.00									
DESIGN LEVELS	88.856	88.126	88.726	88.741	88.846	88.739	88.726	88.876	88.876	88.975
NATURAL SURFACE	88.856	88.750	88.880	88.874	88.772	88.530	88.492	88.490	88.491	88.611
OFFSET	-9.323	-6.400	-4.000	-3.500	0.000	3.550	4.000	4.040	4.150	7.447

CH 120

TMR REVIEW

1 0 1 2 3 4 5 (metres)

1 : 100 AT A1

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DESIGN REVIEW	NF	23.12.24

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N/R@nfcherassociates.com.au

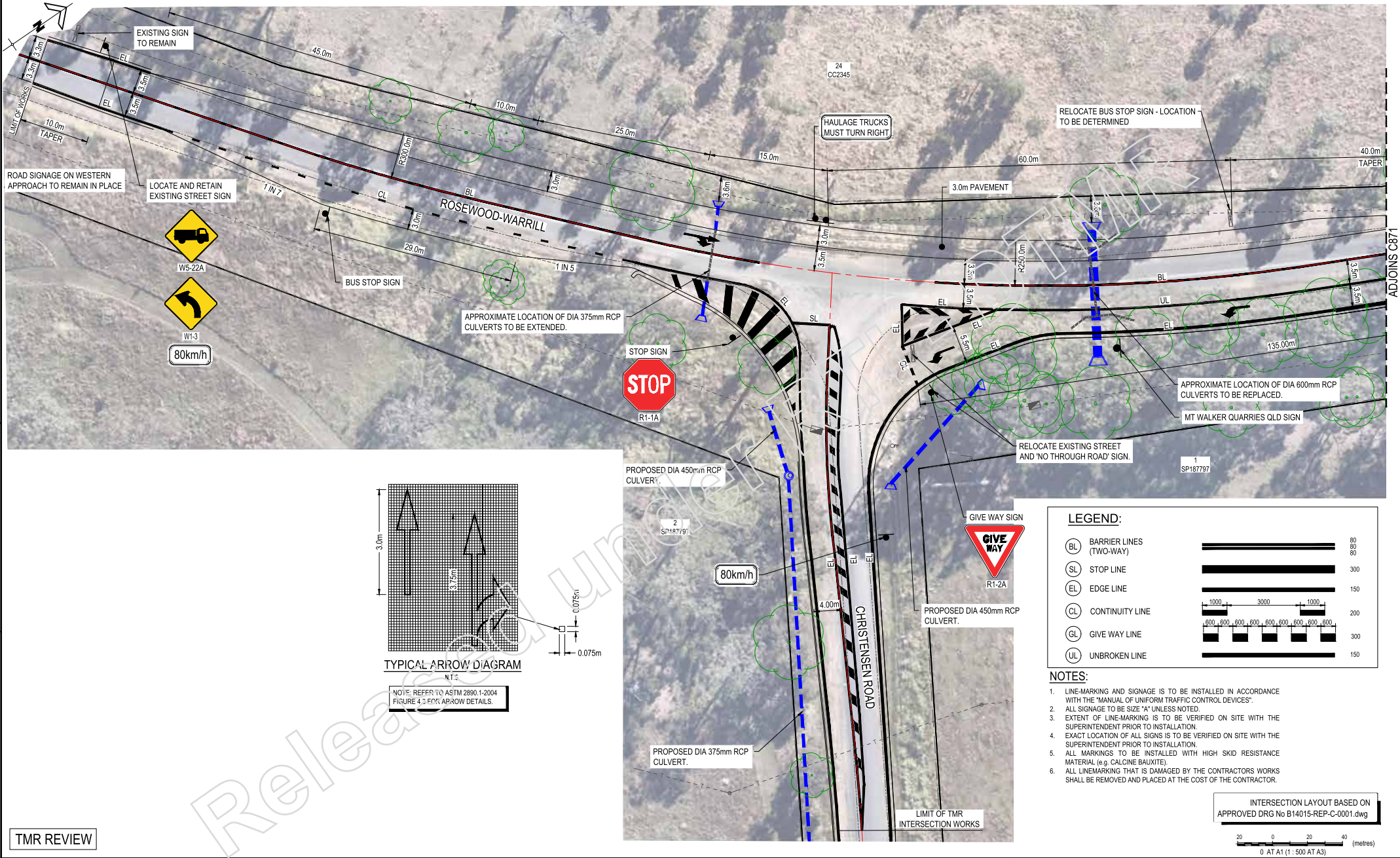
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
CHRISTENSEN ROAD CROSS SECTIONS

DEVE		DATE : JUL 2024	
PROJ	ETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C869	VERSION: B

FILENAME: N:\G1\G1 Various Ltd Ca\G1JB725 - Documents\G1JB725261_RN-A22828 Mt Walker Quarry Access Rev1A_Cut\A1 DA\Dwg A\02_Acad\C869_ROSEWOOD WARRILL CROSS SECTIONS.dwg

PLOTTED: 14 Mar 2025



LEGEND:

BL	BARRIER LINES (TWO-WAY)	80 80 80
SL	STOP LINE	300
EL	EDGE LINE	150
CL	CONTINUITY LINE	1000 3000 1000 / 200
GL	GIVE WAY LINE	600 600 600 600 600 600 600 600 / 300
UL	UNBROKEN LINE	150

NOTES:

1. LINE-MARKING AND SIGNAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. ALL SIGNAGE TO BE SIZE "A" UNLESS NOTED.
3. EXTENT OF LINE-MARKING IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
4. EXACT LOCATION OF ALL SIGNS IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
5. ALL MARKINGS TO BE INSTALLED WITH HIGH SKID RESISTANCE MATERIAL (e.g. CALCINE BAUXITE).
6. ALL LINEMARKING THAT IS DAMAGED BY THE CONTRACTORS WORKS SHALL BE REMOVED AND PLACED AT THE COST OF THE CONTRACTOR.

INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

20 0 20 40 (metres)
0 AT A1 (1 : 500 AT A3)

TMR REVIEW

Released under the RTI ACT

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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ENGINEERS · PROJECT
PO BOX 7217
SOUTHPORT PARK QLD 4215
N/R

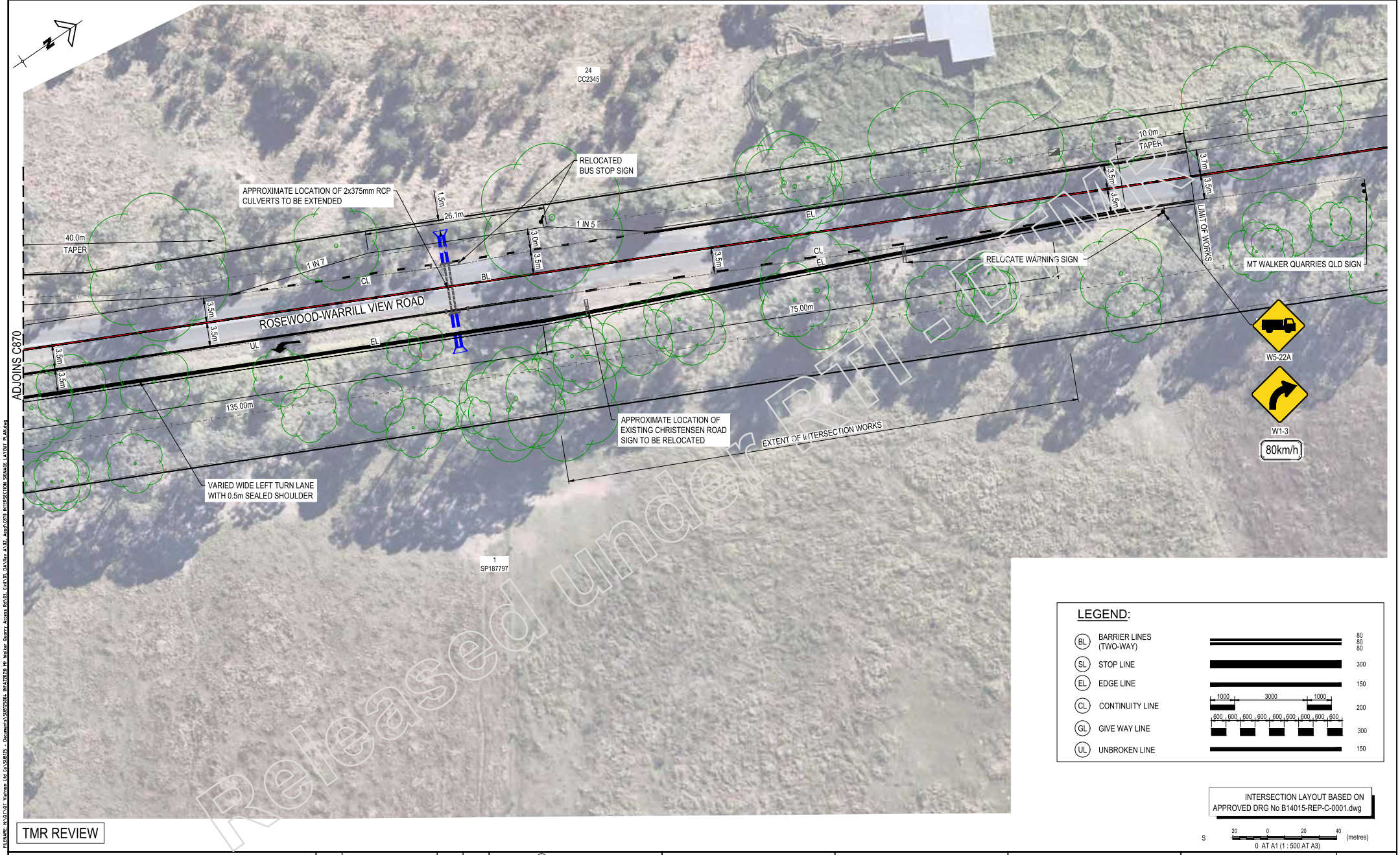
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION SIGNAGE LAYOUT PLAN SHEET 1 OF 2

DEVEL			DATE : JUL 2024
PROJE	LETCHER	DESIGNER : TG	
DRAFT	B	CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
	N/R	RPEQ No. : 10888	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJE		DRAWING No. : C870	VERSION: D

FILENAME: N:\GIS\GIS Various Ltd Cx\SU0725 - Documents\SU0725041_RW-A27828 Mt Walker Quarry Access Rd\15_Civil\01_DA\Dwg A\02_Acad\C870 INTERSECTION SIGNAGE LAYOUT PLAN.dwg

PLOTTED: 14 Mar 2025



Released under RTI-FEMA

LEGEND:

BL	BARRIER LINES (TWO-WAY)	80 80 80
SL	STOP LINE	300
EL	EDGE LINE	150
CL	CONTINUITY LINE	1000 3000 1000 — 200
GL	GIVE WAY LINE	600 600 600 600 600 600 600 600 600 — 300
UL	UNBROKEN LINE	150

INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

S 20 0 20 40 (metres)
0 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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NIGEL FLETCHER & ASS PTY LTD
ENGINEERS · PROJECT
PO BOX 7217
SOUTHPORT PARK QLD 4215
E N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

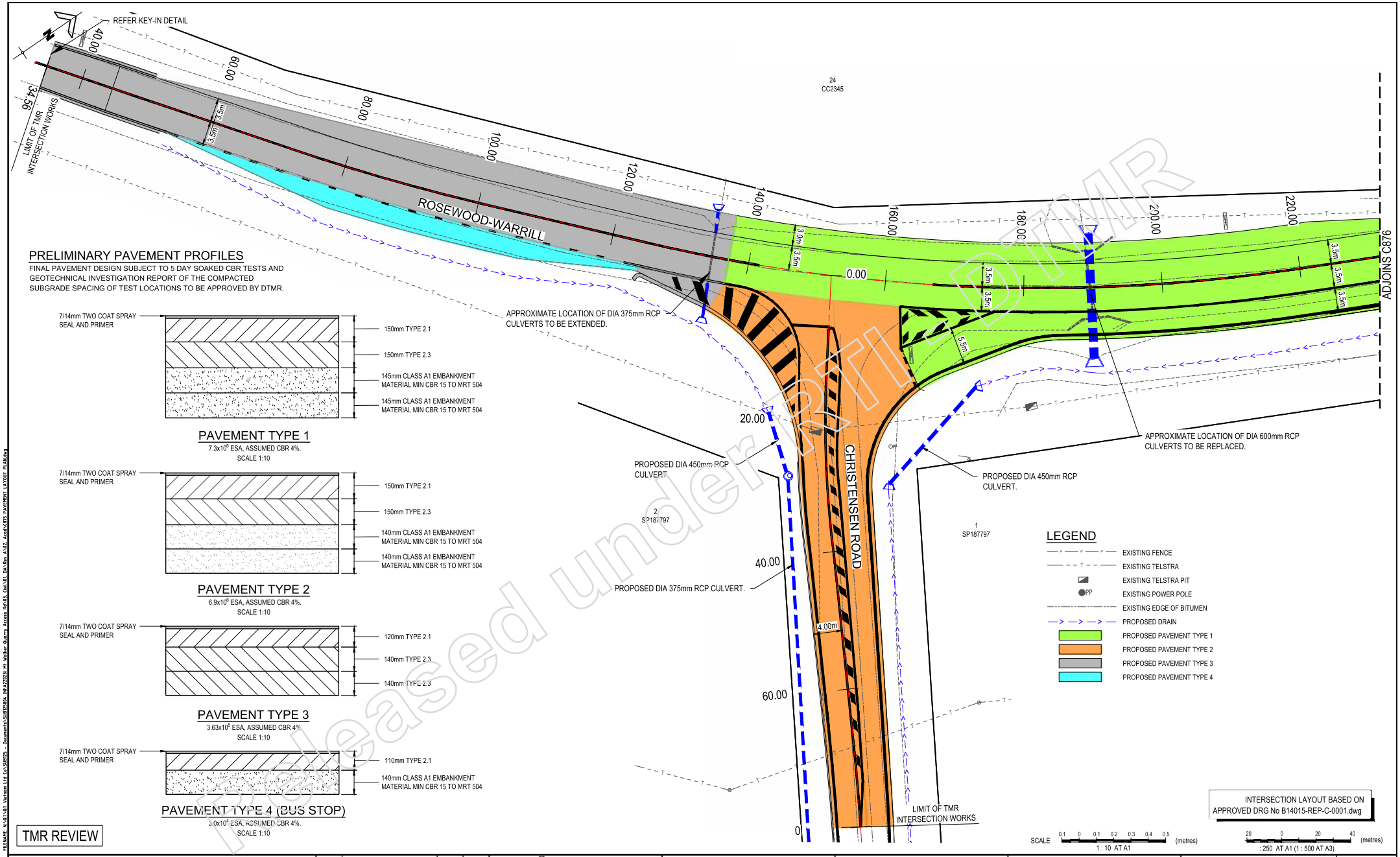
DRAWING TITLE :
INTERSECTION SIGNAGE LAYOUT PLAN SHEET 2 OF 2

DEVEL			DATE : JUL 2024
PROJE	LETCHER	DESIGNER : TG	
DRAFT	B	CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
	N/R	RPEQ No. : 10888	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJE		DRAWING No. : C871	VERSION: D

FILENAME: N:\GIS\GIS Yarnham Ltd Co\SURVEY - Documents\SURVEY\2024 JOB\A22828 MT Walker Quarry Access Rd\01 Civil\01 DA\Dwg A\02 Acad\C871 INTERSECTION SIGNAGE LAYOUT PLAN.dwg

PLOTTED: 14 May 2025

RTI-Release.pdf - Page Number: 204 of 448



PRELIMINARY PAVEMENT PROFILES

FINAL PAVEMENT DESIGN SUBJECT TO 5 DAY SOAKED CBR TESTS AND GEOTECHNICAL INVESTIGATION REPORT OF THE COMPACTED SUBGRADE SPACING OF TEST LOCATIONS TO BE APPROVED BY DTMR.

PAVEMENT TYPE 1

$7.3x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10

PAVEMENT TYPE 2

$6.9x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10

PAVEMENT TYPE 3

$3.63x10^5$ ESA, ASSUMED CBR 4%.
SCALE 1:10

PAVEMENT TYPE 4 (BUS STOP)

$3.0x10^4$ ESA, ASSUMED CBR 4%.
SCALE 1:10

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- PP EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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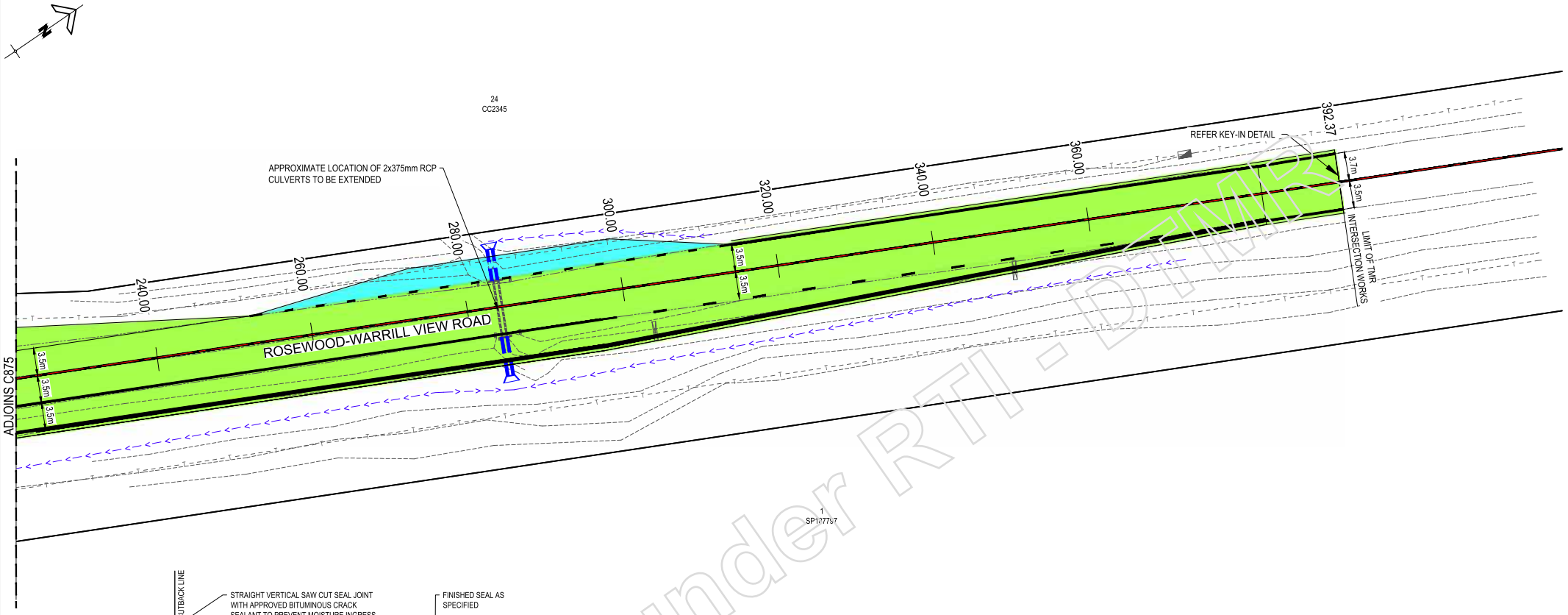
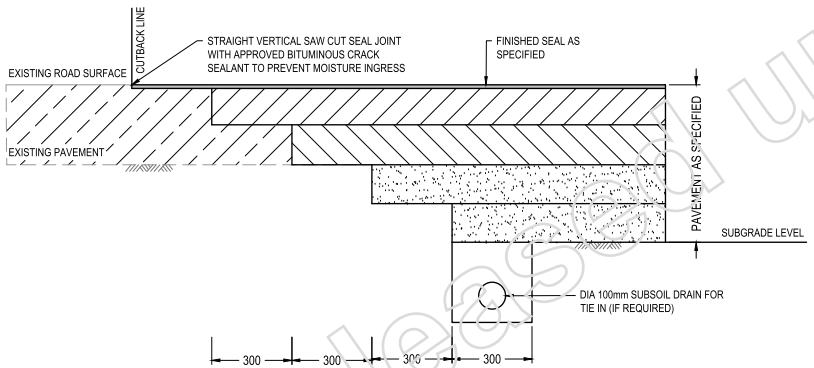
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 1 OF 2

DEVE			DATE : JUL 2024
PROJ	ETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C875	VERSION: B

FILENAME: N:\GIS\GIT Various Ltd Ca\SUB725 - Documents\SUB725264_RWA22928 Mt Walker Quarry Access Rd\GIS\GIS_DATA\Dwg A3Z_Asset\C875 PAVEMENT LAYOUT PLAN.dwg
PLOTTED: 14 May 2025





PAVEMENT KEY-IN DETAIL

KEY IN BETWEEN PAVEMENT TYPES SIMILAR

SCALE 1:10

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: REFER TO DRG C875 FOR TYPICAL PAVEMENT PROFILES.

INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

20 0 20 40 (metres)
AT A1 (1 : 500 AT A3)

TMR REVIEW

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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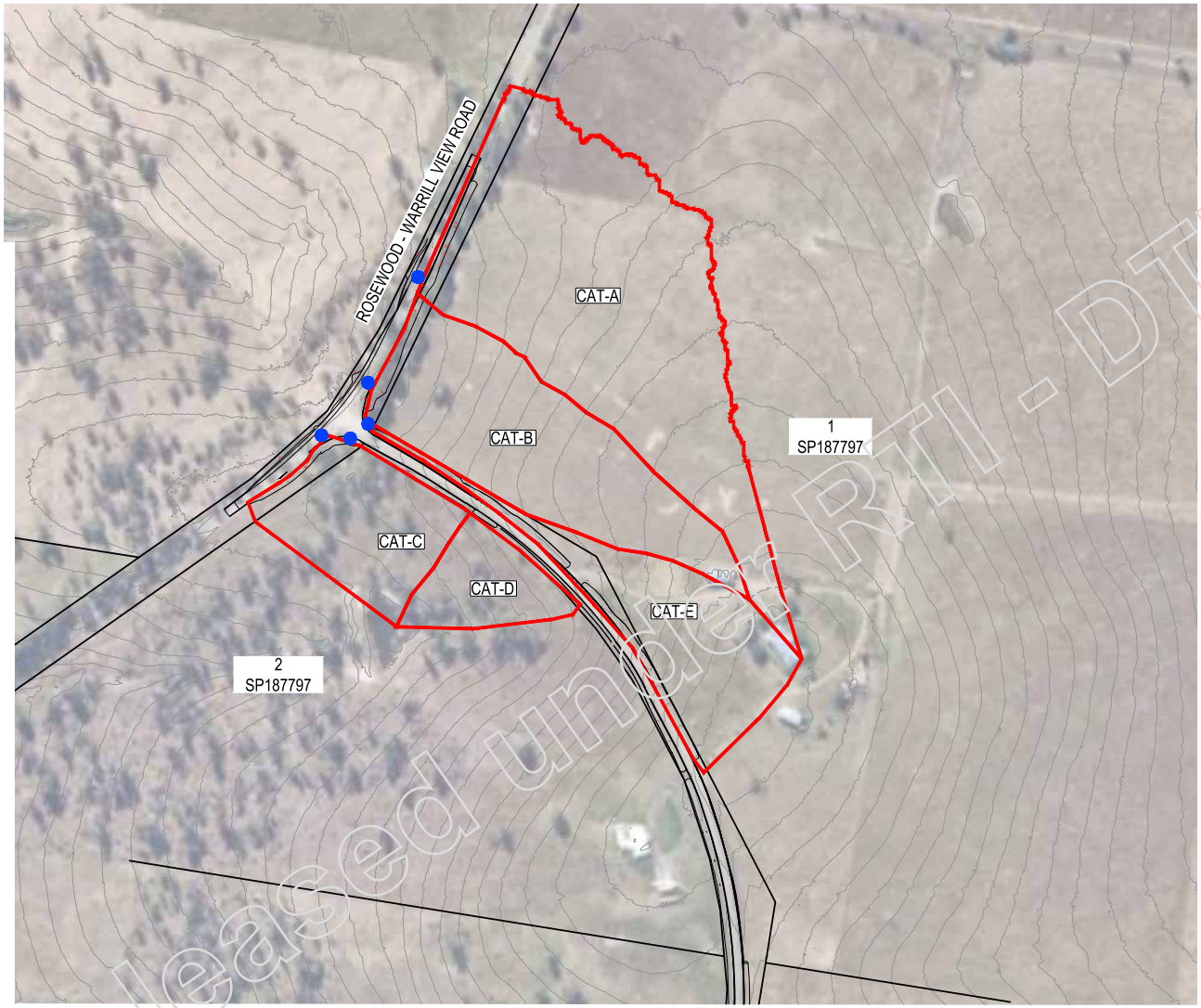
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 2 OF 2

DEVE			DATE : JUL 2024
PROJ	TCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C876	VERSION: B

FILENAME: N:\GIS\GIS Various Ltd Cx\SUB725 - Documents\SUB725264_RWA22828 Mt Walker Quarry Access Rds\8_Civil\01_DA\Dwg A\02_Assd\C875 PAVEMENT LAYOUT PLAN.dwg

PLOTTED: 14 May 2025



CATCHMENT TABLE

CATCHMENT	AREA (ha)
CAT-A	5.17
CAT-B	2.75
CAT-C	1.42
CAT-D	0.76
CAT-E	1.91

LEGEND

- ADJOINING PROPERTY BOUNDARY
- CATCHMENT BOUNDARY
- EXISTING MINOR CONTOUR
- 144.0 EXISTING MAJOR CONTOUR
- FUTURE CULVERT LOCATION

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TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR REVIEW	NF	14.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
CATCHMENT LAYOUT PLAN

DEVEL			DATE : JUL 2024
PROJE	ETCHER	DESIGNER : TG	
DRAFT	B	CHECKED : NIGEL FLETCHER	
APPRO	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
	N/R	RPEQ No. : 10888	
SCALE		DATUM : AHD	FULL SIZE : A1
PROJE		DRAWING No. : C890	VERSION: C

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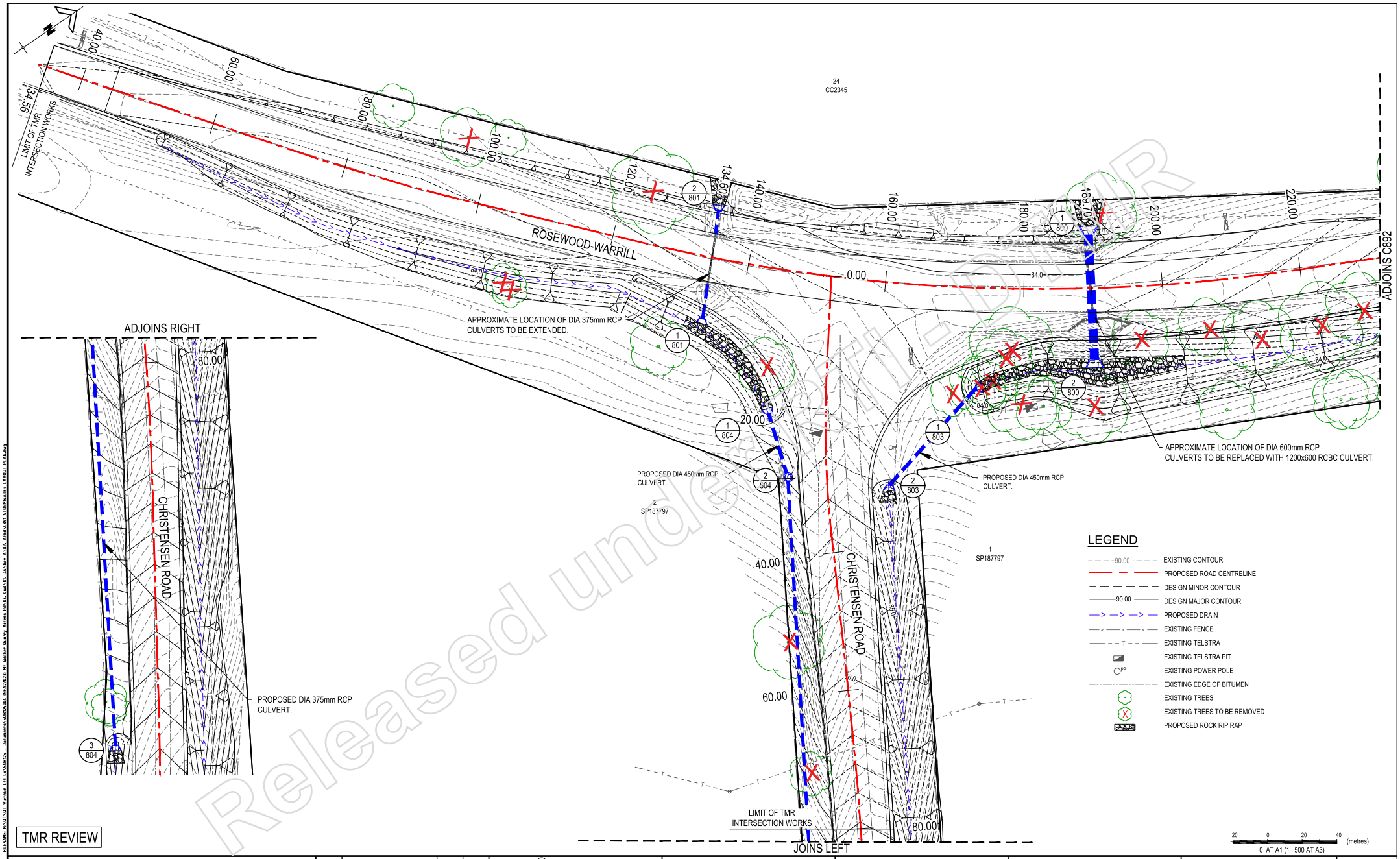
PLOTTED: 14 May 2025



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ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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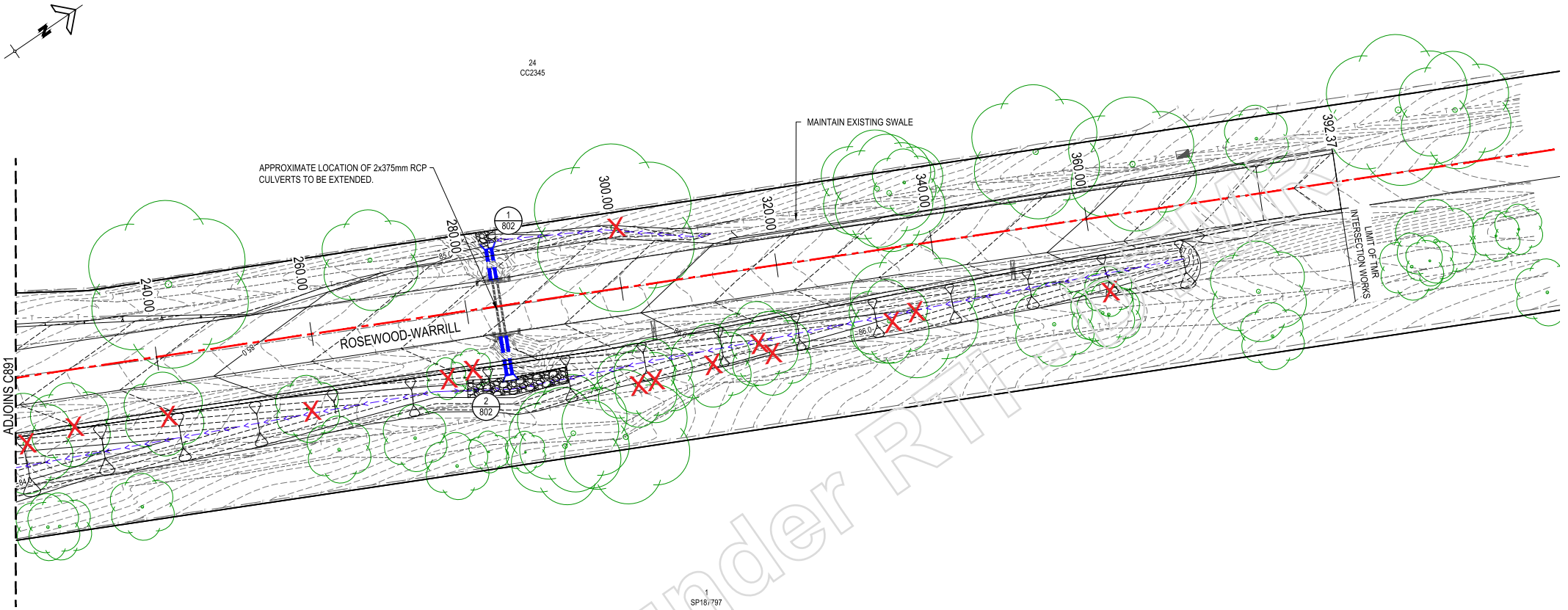
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER LAYOUT PLAN SHEET 1 OF 2

DEVE		DATE : JUL 2024	
PROJ	ETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPRO	N/R	HALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C891	VERSION: B

PLOTTED: 14 Mar 2025
PLENAME: N:\GT\GT Vietnam Ltd (a\QUEST - Documents\QUEST0504_NFA\22423 Mt Walker Quarry Access RdV1S, Gnl\1S1 DA\Dev A\02. Acad\C891 STORMWATER LAYOUT PLAN.dwg



LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED ROCK RIP RAP

TMR REVIEW

20 0 20 40 (metres)
0 AT A1 (1 : 500 AT A3)

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A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER LAYOUT PLAN SHEET 1 OF 2

DEVE			DATE : JUL 2024
PROJ	ETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES. RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C892	VERSION: B

PLOTTED: 14 Mar 2025
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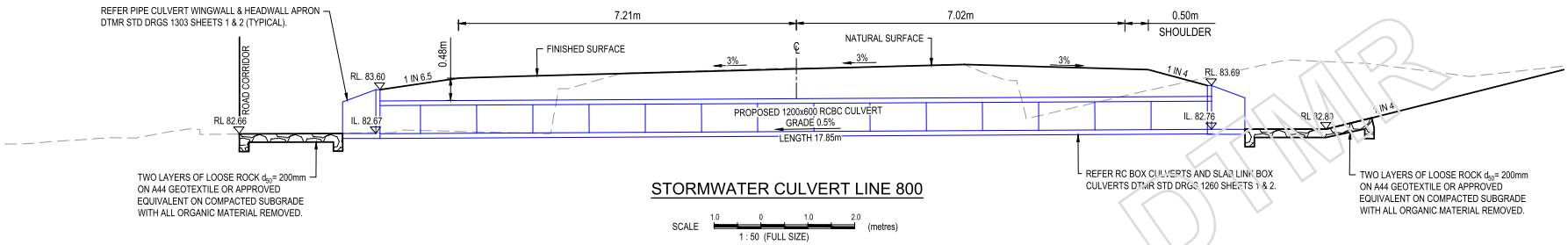
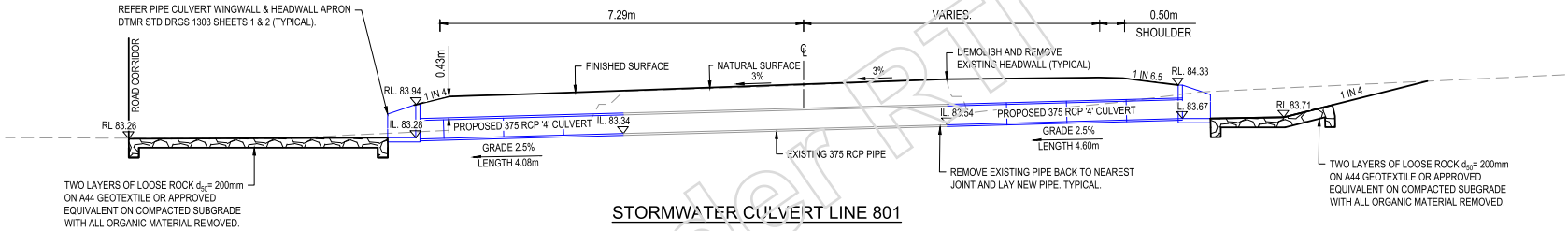


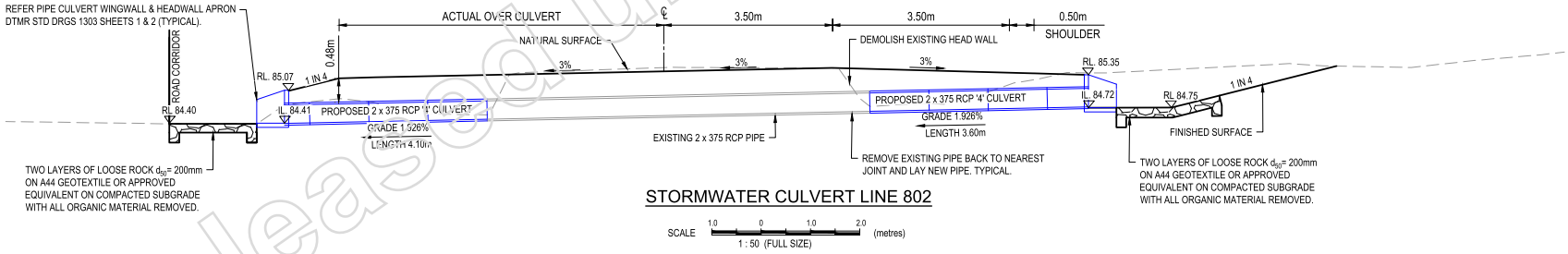
STORMWATER CULVERT LINE 800

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



STORMWATER CULVERT LINE 801

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



STORMWATER CULVERT LINE 802

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

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ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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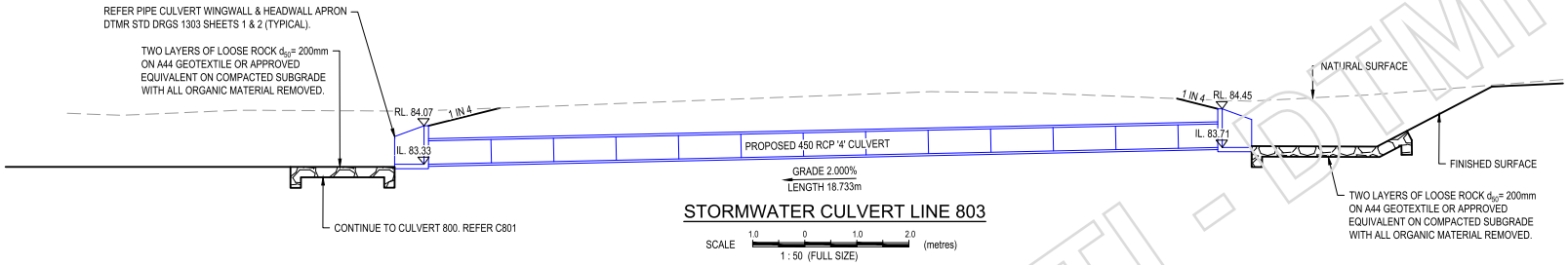
ENGINEERS - PROJECT
PO BOX 7217
SOUTHPORT PARK QLD 4215
N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER CULVERT SECTIONS SHEET 1 OF 2

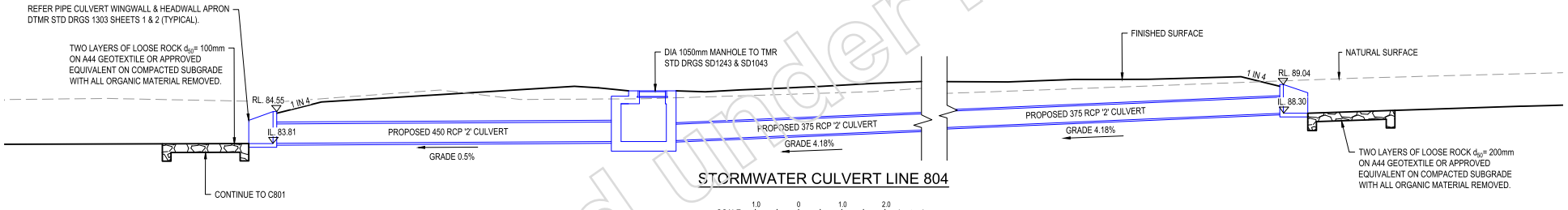
DEVE		DATE : JUL 2024	
PROJ	TCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	EHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R	RPEQ No. : 10888		
SCAL	DATUM : AHD	FULL SIZE : A1	
PROJ	DRAWING No. : C895	VERSION: D	

FILENAME: N:\GIS\GIT Various Ltd Cx\SUB325 - Documents\SUB325264_RWA22828 MT Walker Quarry Access Rd\GIS\GIS_DATA\Dev A\02_Acad\CRPS_ROSEWOOD_WARRILL_SECTIONS.dwg
PLOTTED: 14 Mar 2025



STORMWATER CULVERT LINE 803

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



STORMWATER CULVERT LINE 804

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

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ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR REVIEW	NF	14.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
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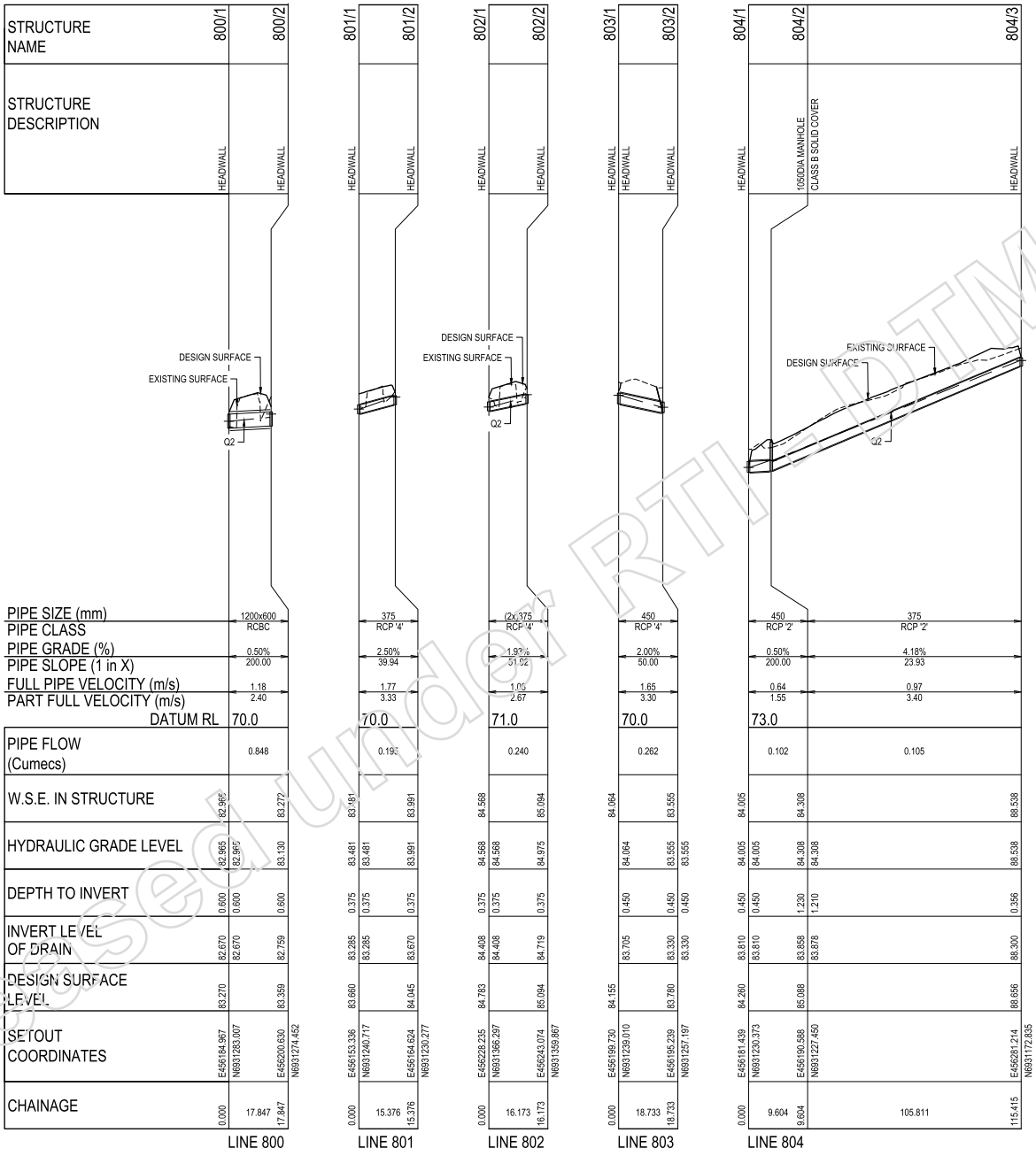
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER CULVERT SECTIONS SHEET 2 OF 2

DEVE			DATE : JUL 2024
PROJ	TCHER		DESIGNER : TG
DRAF			CHECKED : NIGEL FLETCHER
APPR	EHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C896	VERSION: D

FILENAME N:\GIS\GIT Vaihsan Ltd Co\SUB725 - Documents\SUB725004 RW\AZ2020 Mt Walker Quarry Access Rd\03_Civil\01_DA\Dwg A\02_Acad\DRG ROSEWOOD WARRILL SECTIONS.dwg

PLOTTED: 14 Mar 2025



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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1
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VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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PO BOX 7217
SOUTHPORT PARK QLD 4215

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER LONGITUDINAL SECTIONS

DEV		DATE : JUL 2024	
PRO	LETCHER	DESIGNER : TG	
DRA	B	CHECKED : NIGEL FLETCHER	
APP	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.		
N/R		RPEQ No. : 10888	
SCA		DATUM : AHD	FULL SIZE : A1
PRO		DRAWING No. : C897	VERSION: B

FILENAME N:\Q1\Q1 Various Ltd Cx\Q1025 - Documents\Q1025264 JN\A22828 Mt Walker Quarry Access Rd\10_Civil\01_DA\Dwg A\02_Acad\C897 STORMWATER LONGITUDINAL SECTIONS.dwg
PLOTTED: 14 Mar 2025

	STRUCTURE No.	DRAIN SECTION	STORM EVENT	ARI EVENT	SUB-CATCHMENT TIME OF CONC.	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD X-FALL AT INLET	INLET TYPE	INLET CURVE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C x A)	PEAK FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE SIZE	PIPE CLASS	FULL PIPE VELOCITY	CAPACITY FLOW	CAPACITY VELOCITY	TRAVEL VELOCITY	CHART(S) USED	VELOCITY HEAD	U/S HEAD LOSS COEFFICIENT	U/S HEAD LOSS	W.S.E COEFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEAD LOSS	NORMAL DEPTH	NORMAL DEPTH VEL.	PIPE U/S I.L	PIPE D/S I.L	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	GRATE LEVEL	STRUCTURE No.
				yrs	min	mm/hr		ha	ha	L/s	L/s	%			L/s	L/s		min	mm/hr	ha	L/s	L/s	m	%	mm		m/s	L/s	m/s	n /s		m		m		m	%	m	m	m/s	m	m	m	m	m	m	
7	800/1		Minor	2									HW																															82.965	83.27	800/1
7			Major	50									HW																															83.27	83.27	
8	800/2	800/2 to 800/1	Minor	2	15	82	0.6	2.75	1.652	378	848		HW		848	0		15	82	1.652	378	848	17.847	0.5	1200x600	BC	1.18	2281	3.17	2		0.071	2	0.142		0.142	0.93	0.057	0.295	2.4	82.759	82.67	83.13	82.965	83.272	83.359	800/2
8		800/2 to 800/1	Major	50	15	177	0.76	2.75	2.093	1029	2723		HW		2723	0		15	177	2.093	1029	2723	17.847	0.5	1200x600	BC	3.78	2281	3.17	2		0.05	2	0.1		0.1	-0.06	0.011	0.6	3.78	82.759	82.67	83.259	83.27	83.359	83.359	
9	801/1		Minor	2									HW																															83.481	83.66	801/1
9			Major	50									HW																															83.66	83.66	
10	801/2	801/2 to 801/1	Minor	2	15	82	0.6	1.42	0.853	195	195		HW		195	0		15	82	0.853	195	195	15.376	2.5	375	4	1.77	362	3.28	2		0.159	0	0		0	3.31	0.136	0.196	3.33	83.67	83.285	83.991	83.481	83.991	84.045	801/2
10		801/2 to 801/1	Major	50	15	177	0.76	1.42	1.08	531	542		HW		542	0		15	177	1.08	531	542	15.376	2.5	375	4	4.9	362	3.28	2		0.549	0	0		0	2.5	0.385	0.375	4.9	83.67	83.285	84.045	83.66	84.045	84.045	
11	802/1		Minor	2									HW																															84.568	84.783	802/1
11			Major	50									HW																															84.568	84.783	
12	802/2	802/2 to 802/1	Minor	2	15	82	0.6	5.18	3.106	710	710		HW		240	470	800/2	15	82	3.106	710	240	16.173	1.33	(2x)375	4	1.08	635	2.88	2		0.06	2	0.12		0.12	2.51	0.158	0.16	2.67	84.719	84.408	84.975	84.568	85.094	85.094	802/2
12		802/2 to 802/1	Major	50	15	177	0.76	5.18	3.934	1934	1934		HW		240	1695	800/2	15	177	3.934	1934	240	16.173	1.33	(2x)375	4	1.08	635	2.88	2		0.06	2	0.12		0.12	2.51	0.158	0.16	2.67	84.719	84.408	84.975	84.568	85.094	85.094	
13	803/1	803/1 to 803/2	Minor	2	15	82	0.6	1.91	1.147	262	262		HW		262	0		15	82	1.147	262	262	18.733	2	450	4	1.65	526	3.31	2		0.139	0	0		0	2.72	0.144	0.225	3.3	83.705	83.33	84.064	83.555	84.064	84.155	803/1
13		803/1 to 803/2	Major	50	15	177	0.76	1.91	1.453	715	715		HW		715	0		15	177	1.453	715	715	18.733	2	450	4	4.49	526	3.31	2		0.559	0	0		0	2	0.375	0.45	4.49	83.705	83.33	84.155	83.78	84.155	84.155	
14	803/2		Minor	2									HW																															83.555	83.78	803/2
14			Major	50									HW																															83.78	83.78	
15	804/1		Minor	2									HW																															84.005	84.26	804/1
15			Major	50									HW																															84.26	84.26	
16	804/2	804/2 to 804/1	Minor	2									MH					15.88	80	0.458	102	102	9.604	0.5	450	2	0.64	263	1.65	2	T1/T2	0.021	0	0		0	3.15	0.202	0.195	1.55	83.858	83.81	84.308	84.005	84.308	85.088	804/2
16		804/2 to 804/1	Major	50									MH					15.88	1/3	0.58	279	279	9.604	0.5	450	2	1.68	263	1.65	2	T1/T2	0.14	0	0		0	0.5	0.048	0.45	1.68	83.858	83.81	84.308	84.26	84.308	85.088	
17	804/3	804/3 to 804/2	Major	2	15	82	0.6	0.76	0.458	105	105		HW		105	0	801/2	15	82	0.458	105	105	105.811	4.18	375	2	0.97	501	4.62	2		0.048	0	0		0	4	4.286	0.121	3.4	88.3	83.878	88.538	84.308	88.538	88.656	804/3
17		804/3 to 804/2	Major	50	15	177	0.76	0.76	0.58	285	285		HW		274	11	801/2	15	177	0.58	285	274	105.811	4.18	375	2	2.53	501	4.62	2		0.328	0	0		0	4.11	4.36	0.207	4.39	88.3	83.878	88.656	84.308	88.656	88.656	

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TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR REVIEW	NF	14.03.25
A	DETAIL DESIGN	NF	23.12.24

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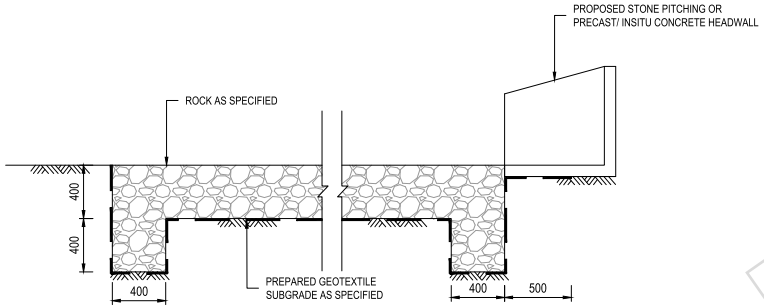
NIGEL FLETCHER & ASS PTY LTD
ENGINEERS · PROJECT
PO BOX 7217
SOUTHPORT PARK QLD 4215
E [redacted]@nfassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER CALCULATIONS TABLE

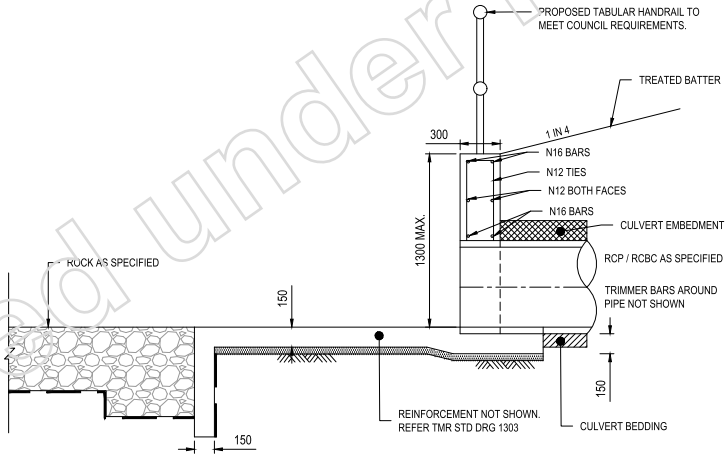
DEVE		DATE : JUL 2024	
PROJ	LETCHER	DESIGNER : TG	
DRAF	B	CHECKED : NIGEL FLETCHER	
APPR	N/R	BEHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCAL		DATUM : AHD	FULL SIZE : A1
PROJ		DRAWING No. : C898	VERSION: B

FILENAME: N:\GC\GC Varham Ltd Co\GJ0725 - Documents\GJ0725264_INVA22029 Mt Walker Quarry Access RDWJA Civil\01_DA\Dwg A\02_Acad\C898 STORMWATER CALCULATIONS.dwg
PLOTTED: 14 May 2025



TYPICAL ROCK INLET OUTLET DETAIL

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)



TYPICAL HEADWALL EXTENSION DETAIL (PIPE)

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)

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TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
A	DETAIL DESIGN	NF	14.03.25

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NIGEL FLETCHER & ASS PTY LTD
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SOUTHPORT PARK QLD 4215
N/R

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER DETAILS

DEVEL.		DATE : JUL 2024	
PROJEC	TCHER	DESIGNER : TG	
DRAFTS		CHECKED : NIGEL FLETCHER	
APPROV.	N/R	EHALF OF NIGEL FLETCHER AND ASSOCIATES.	
		RPEQ No. : 10888	
SCALE	DATUM : AHD	FULL SIZE : A1	
PROJEC	DRAWING No. : C899	VERSION: A	

FILENAME: N:\GIS\GIS Vaihsan Ltd Co\SURTS2024_JOB\A22028 Mt Walker Quarry Access Rd\03_Civil\01_DA\Dev A\02_Acad\899 STORMWATER DETAILS.dwg

PLOTTED: 14 Mar 2025

From: N/R nigelfletcherassociates.com.au
To: SCR Corridor and Land Management Inbox
Subject: Re: Mt Walker Quarry SDA 0914-014441 Rosewood Warrill View Road and Christensen Road Intersection Works
Date: Monday, 14 April 2025 6:04:54 PM
Attachments: image001.png

Hi Emily

Please find the drawings in the following link.

N/R

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E N/R @nigelfletcherassociates.com.au
M N/R

From: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Date: Thursday, 10 April 2025 at 3:26 pm
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Subject: RE: Mt Walker Quarry SDA 0914-014441 Rosewood Warrill View Road and Christensen Road Intersection Works

Dear N/R

Thank you for your recent email.

Unfortunately, we are unable to download files from a zip folder. To facilitate the process, I have provided access to a secure folder on One Drive.

N/R

Could you please upload the necessary documents to this folder at your earliest convenience?

Thank you for your cooperation.

Emily Spencer
Administration Support Officer (Corridor and Land Management) | South Coast Region

Released under RTI - DTMR

Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

Phone: 07 5563 6404
Email: scr.calm@tmr.qld.gov.au
Website: www.tmr.qld.gov.au
Address: Floor G | 36-38 Cotton Street | Nerang Qld 4211

From N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Monday, 7 April 2025 4:45 PM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: Mt Walker Quarry SDA 0914-014441 Rosewood Warrill View Road and Christensen Road Intersection Works

Good Afternoon,

Please find our attached covering letter, Form 5032, Transmittal No 15 and our design package (see link below) for the Conditional Approval of the proposed intersection works.

N/R

We look forward to your response.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E N/R @nigelfletcherassociates.com.au
M: N/R

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Opinions contained in this email do not necessarily reflect the opinions of the Department of Transport and Main Roads, or endorsed organisations utilising the same infrastructure.

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Our ref TMR24-042833
Your ref MC.Bn13/00012
Enquiries Ken Jensen

Queensland Government

Department of
Transport and Main Roads

7 May 2025

GCE Contractors Pty Ltd
13a/191 Hedley Avenue
Hendra QLD 4011

Dear N/R

Request for further information about road works at Christensen Road, Coleyville QLD 4307

I refer to your application for road works made pursuant to section 33 of the *Transport Infrastructure Act 1994* (TIA).

The Department of Transport and Main Roads has carried out an initial review of the application and requests that you provide amended design drawings and further information addressing the following comments:

Crossfall transition

- Based on the cross sections and contours included on the layout plans, there appears to be a virtually instantaneous change in crossfall for southbound traffic at the northern end of the project, from -ve 3% crossfall at around CH 390m to +ve 3% (superelevation) at CH 380m. In accordance with Section 7.7 of AGRD Part 3, the rate of rotation should desirably not exceed 2.5% per second of travel. With reference to Table 7.11, a length of 73m is required at 110km/hr design speed to rotate the pavement from -ve 3% to +ve 3%. The transition to superelevation needs to be amended to comply with this requirement.

- Similarly, the change in crossfall for southbound traffic at the southern end of the project transitions from +ve 3% at CH60 to +ve 0.4% at CH40, resulting in a rate of rotation of 2.6% in 20m, which equates to around 3.97% per second of travel for a 110km/hr design speed. The transition from superelevation back to normal crossfall needs to be amended to comply with rate of rotation requirements.

Shoulder Width

- As per Table 4.2.6(b) of TMR Supplement to AGRD Part 3, a traffic lane / shoulder width combination of 3.5m / 1.0m is required (based on AADT between 400 and 1,000, including quarry traffic). The current design includes 0.5m only sealed shoulders. Can the minimum shoulder width be increased to 1.0m to satisfy the above requirement? Otherwise, an EDD / DE Report will be required to justify the provision of shoulder widths less than the NDD requirement.

Program Delivery and Operations
South Coast Region
36-38 Cotton Street Nerang QLD 4211
PO Box 442 Nerang QLD 4211

Telephone +61 (07) 5563 6536
Website www.tmr.qld.gov.au
Email scr.calm@tmr.qld.gov.au
ABN: 39 407 690 291

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Pavement Design

- Pavement Type 4 (bus stop) is shown to be 110mm of Type 2.1 over 140mm of min CBR 15% material (total thickness 250mm) for a design loading of 3 x 10E4 ESA and subgrade CBR of 4%. With reference to Figure 12.2 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 300mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a Type 2.1 thickness of 140mm above the CBR 15% material. The Type 4 pavement design for the bus stops needs to be amended.
- Pavement Type 3 includes a bottom layer (140mm) of Type 2.3 material. With reference to Figure 8.4 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 400mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a thickness of 180mm above CBR 15% material. The Type 3 pavement design could be amended to incorporate CBR 15% material for the bottom layer (increased in depth by 20mm to include construction tolerance) in place of the Type 2.3.

Note - Calculation / estimation of the design traffic loadings for the 4 pavement types needs to be provided within the design development report (refer below) for TMR review. All assumptions used (for example, ESA per HV) need to be documented.

Drainage

- Is rock lining of the longitudinal drainage channels required for scour protection purposes due to high velocities? If not, it is recommended that ordinary grassed lined table / swale drains be provided along the sides of the road to provide consistency for future vegetation maintenance in the area.

Kerb and Channel

- From the Christensen Rd cross sections, it appears that a kerb and channel is to be installed on the southern side of the road from approx. CH120 (Christensen Rd) through to around CH125 (Rosewood Warrill View Rd). No details about the type of kerb and channel is provided, including any backfill details at the top of the embankment where it is adjacent to Rosewood Warrill View Rd (it is expected that detail of the kerb profile and backfill would have been shown on the cross section at CH140). Details of the kerb and channel type and details about backfill to the kerb at the top of the embankment adjacent to Rosewood Warrill View Rd need to be provided.

Pavement Markings and signage

- Drawings C870 & C871should include reference to REGPs and RRPMs being installed in accordance with requirements of MUTCD.
- An edge line is currently not indicated to be installed for the extent of the northbound BAR treatment (between CH50 and CH250). The edge line should be continued through the intersection at 3.5m offset form centre line as per normal.
- As per MUTCD requirements, a pavement arrow (straight through / right turn) is not required in the northbound lane at the intersection as all movements are permitted.

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- A sign combination (W5-22A/W1-3 with supplementary plate) is shown to be installed at approx. CH45, too close to the existing northbound 'Christensen Rd' sign. This sign should be retained at its current location (CH0).
- The existing 'Christensen Rd' sign at approx. CH300 is shown to be relocated, however its new location is not indicated.
- A new 80km/hr speed limit is indicated to be implemented on Christensen Rd (currently 100km/hr as per general rural speed limit). As Rosewood Warrill View Rd has a speed limit of 100km/hr, additional 100km/hr speed signs will be required either side of the intersection (suggest opposite the curve warning / advisory speed signs) to indicate the change in limit when exiting Christensen Rd.
- Two new 'Mt Walker Quarries Qld' signs are shown to be installed at approx. CH290 and CH410, however no details are provided. Any service / direction signs which are not compliant with standard MUTCD and/or not directly related to normal intersection signage are subject to separate approval processes and will not form part of the Section 33 approval and should therefore be removed from the drawings.

Design Report

Previously an EDD / DE Report was requested addressing the sight distance deficiency and proposed mitigation (extension of BAR) identified at the Development Application stage, which has not been received. It is noted that this project would generally fall into Road Design Class C category (as per TMR Supplement to AGRD Part 1), which would not require existing deficiencies against numerous NDD standards to be rectified, however they should be identified and noted which would be included within the Design Development Report.

As a minimum, it is requested that a Design Development Report (which includes the above sight distance matter and designed mitigation) be submitted. Please refer to the TMR template "Design Development Report (Small Projects)" available under the Road Planning and Design Manual tab on the department's webpage www.tmr.qld.gov.au.

Please note that Nathan Cubit has left the department. If you would like to discuss this application or the content of this request, please contact Ken Jensen, Principal Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6536.

Yours sincerely

N/R

Ken Jensen
Principal Engineer

Cc: [redacted] – GCE Contractors
N/R – Nigel Fletcher and Associates

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From: "eDAMdonotreply" <donotreply@mail.edam.tmr.qld.gov.au>
Sent: 07/05/2025 03:26:18 PM
To: N/R @gcecontractors.com
CC: Ken Jensen <ken.w.jensen@tmr.qld.gov.au> ; Gold Coast <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307 (Reference Number MC.Bn13/00012)

Attachments:

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

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From: "eDAMdonotreply" <donotreply@mail.edam.tmr.qld.gov.au>
Sent: 07/05/2025 03:26:15 PM
To: N/R (Nigel Fletcher & Associates Pty Ltd)" N/R @nigelfletcherassociates.com.au>; N/R (GCE Contractors)" N/R @gcecontractors.com>
CC: Ken Jensen <ken.w.jensen@tmr.qld.gov.au> ; Gold Coast <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Attachments:

N/R

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Regards,
eDAM System | Department of Transport and Main Roads

Released under RTI - DTMR

Our ref TMR24-042833
Your ref MC.Bn13/00012
Enquiries Ken Jensen

Queensland Government

Department of
Transport and Main Roads

7 May 2025

GCE Contractors Pty Ltd
13a/191 Hedley Avenue
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- Similarly, the change in crossfall for southbound traffic at the southern end of the project transitions from +ve 3% at CH60 to +ve 0.4% at CH40, resulting in a rate of rotation of 2.6% in 20m, which equates to around 3.97% per second of travel for a 110km/hr design speed. The transition from superelevation back to normal crossfall needs to be amended to comply with rate of rotation requirements.

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ABN: 39 407 690 291

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Pavement Design

- Pavement Type 4 (bus stop) is shown to be 110mm of Type 2.1 over 140mm of min CBR 15% material (total thickness 250mm) for a design loading of 3 x 10E4 ESA and subgrade CBR of 4%. With reference to Figure 12.2 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 300mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a Type 2.1 thickness of 140mm above the CBR 15% material. The Type 4 pavement design for the bus stops needs to be amended.
- Pavement Type 3 includes a bottom layer (140mm) of Type 2.3 material. With reference to Figure 8.4 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 400mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a thickness of 180mm above CBR 15% material. The Type 3 pavement design could be amended to incorporate CBR 15% material for the bottom layer (increased in depth by 20mm to include construction tolerance) in place of the Type 2.3.

Note - Calculation / estimation of the design traffic loadings for the 4 pavement types needs to be provided within the design development report (refer below) for TMR review. All assumptions used (for example, ESA per HV) need to be documented.

Drainage

- Is rock lining of the longitudinal drainage channels required for scour protection purposes due to high velocities? If not, it is recommended that ordinary grassed lined table / swale drains be provided along the sides of the road to provide consistency for future vegetation maintenance in the area.

Kerb and Channel

- From the Christensen Rd cross sections, it appears that a kerb and channel is to be installed on the southern side of the road from approx. CH120 (Christensen Rd) through to around CH125 (Rosewood Warrill View Rd). No details about the type of kerb and channel is provided, including any backfill details at the top of the embankment where it is adjacent to Rosewood Warrill View Rd (it is expected that detail of the kerb profile and backfill would have been shown on the cross section at CH140). Details of the kerb and channel type and details about backfill to the kerb at the top of the embankment adjacent to Rosewood Warrill View Rd need to be provided.

Pavement Markings and signage

- Drawings C870 & C871should include reference to REGPs and RRPMs being installed in accordance with requirements of MUTCD.
- An edge line is currently not indicated to be installed for the extent of the northbound BAR treatment (between CH50 and CH250). The edge line should be continued through the intersection at 3.5m offset form centre line as per normal.
- As per MUTCD requirements, a pavement arrow (straight through / right turn) is not required in the northbound lane at the intersection as all movements are permitted.

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- A sign combination (W5-22A/W1-3 with supplementary plate) is shown to be installed at approx. CH45, too close to the existing northbound 'Christensen Rd' sign. This sign should be retained at its current location (CH0).
- The existing 'Christensen Rd' sign at approx. CH300 is shown to be relocated, however its new location is not indicated.
- A new 80km/hr speed limit is indicated to be implemented on Christensen Rd (currently 100km/hr as per general rural speed limit). As Rosewood Warrill View Rd has a speed limit of 100km/hr, additional 100km/hr speed signs will be required either side of the intersection (suggest opposite the curve warning / advisory speed signs) to indicate the change in limit when exiting Christensen Rd.
- Two new 'Mt Walker Quarries Qld' signs are shown to be installed at approx. CH290 and CH410, however no details are provided. Any service / direction signs which are not compliant with standard MUTCD and/or not directly related to normal intersection signage are subject to separate approval processes and will not form part of the Section 33 approval and should therefore be removed from the drawings.

Design Report

Previously an EDD / DE Report was requested addressing the sight distance deficiency and proposed mitigation (extension of BAR) identified at the Development Application stage, which has not been received. It is noted that this project would generally fall into Road Design Class C category (as per TMR Supplement to AGRD Part 1), which would not require existing deficiencies against numerous NDD standards to be rectified, however they should be identified and noted which would be included within the Design Development Report.

As a minimum, it is requested that a Design Development Report (which includes the above sight distance matter and designed mitigation) be submitted. Please refer to the TMR template "Design Development Report (Small Projects)" available under the Road Planning and Design Manual tab on the department's webpage www.tmr.qld.gov.au.

Please note that Nathan Cubit has left the department. If you would like to discuss this application or the content of this request, please contact Ken Jensen, Principal Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6536.

Yours sincerely

N/R

Ken Jensen
Principal Engineer

Cc: N/R – GCE Contractors
– Nigel Fletcher and Associates

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From: Nathan A Bright
To: Alice Davis
Cc: ipswichsara@dsdmip.qld.gov.au
Subject: RE: Royalties Payment - Pavement Impacts for Mt Walker Quarry
Date: Tuesday, 29 July 2025 11:57:00 AM
Attachments: RE Pavement Impacts and Conditioned requirements - Mt Walker Quarry.msg
image001.png
image002.jpg
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.png
image010.png

Hi Alice

I have spoken with N/R

Copy of email we have sent to GCE for Mt Walker emails.

Thanks for copying us into reply

Let us know if you need anything else.

Kind regards,

Nathan Bright

Principal Town Planner (Land Management – Project Planning and Corridor Management), South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department Transport and Main Roads
P 07 5563 6652 **M** N/R
36-38 Cotton Street, Nerang, Qld 4211

Discover the story on the 'Travelling' by Gilimbaa' artwork included in our Acknowledgment statement above.

From: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>

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To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: RE: Royalties Payment

N/R

You can contact the South Coast DTMR office to arrange the payments, their email is scr.calm@tmr.qld.gov and phone number is (07) 5563-6600

I've cc'd them to this email so they have a heads up that you may be in touch re: condition 22.

Have a good day

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
P 5644 3223
Level 9, 12-14 Marine Parade, Southport QLD 4215
PO Box 3290, Southport QLD 4215

From: N/R @gcecontractors.com>
Sent: Monday, 28 July 2025 3:52 PM
To: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
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Subject: RE: Royalties Payment

Alice,

Its condition no 22. We would like to know how we can make these payments.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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Subject: RE: Royalties Payment

Hi N/R

Nice to hear from you.

Could you clarify which condition from SARA's referral agency response you are referring to? I've attached for ease of reference.

Cheers for now

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
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Subject: Royalties Payment

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I hope this message finds you well.

I'm seeking clarification regarding a condition attached to our Development Approval (DA). Specifically, could you please advise who we are required to pay the royalties to in relation to this condition?

Your guidance on this would be greatly appreciated.

Kind Regards,

N/R | GCE Contractors Pty Ltd
Operations Manager

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Website: www.gcecontractors.com.au

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From: Nathan A Bright
To: N/R accounts@gcecontractors.com
Cc: SCR Corridor and Land Management Inbox; Ken W Jensen
Subject: RE: Pavement Impacts and Conditioned requirements - Mt Walker Quarry
Date: Tuesday, 29 July 2025 11:02:00 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
SDA-0914-014441 v2.pdf
image009.png
image010.jpg

H N/R

Copy Ken and Corridor Management Inbox

Pavement Impacts and Conditioned requirements - Mt Walker Quarry

Thank you for your email, I have tried to return your call.

I understand that as per the letter dated 22 May 2015 and titled Referral Agency Response for Mount Walker Quarry that you have requirements to fulfill in terms of pavement impact contributions.

I understand that you have road works applications underway as well. That is section 33 road works with TMR.

My questions is, has the use commenced operations for the extractive industry? In accordance with the conditions and technical reports there is conditioned and indexed requirements. Condition 22 outlines the requirements.

Please make contact at your earliest and we can assist you in meeting your conditioned obligations.

Process for meeting compliance
In order to advise about the pavement impacts and contributions you should provide records or evidence of extracted materials (sometimes excel spreadsheet, weight bridge records and so forth), estimate of contribution based on the condition and technical reports, indexation and any workings of this calculation.

TMR will need to set you up as a customer in our system and invoice you for the amount of pavement impact.

You should provide this evidence and include RPEQ certification or statutory declaration to verify payment. We usually receive a payment request from the Accountant, signed and verified for the relevant company.

Information we require to generate a customer and invoice includes the particulars below:
Reference No. TMR14-009023 and SDA-0914-014441

Customer Name	

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TMR Customer Number (if known)	
Trading Name (If any)	
ABN	
Address	
Postal Address (if any)	
Account Contact Person	
Contact Phone Number and Email	

You can choose to undertake this process on a regular basis, please advise 12 monthly, quarterly or appropriate time period, the indexation for the relevant quarter will need to be applied to contributions.

I trust this assists with answering your emails in this regard. Please make contact if you need to clarify this process in meeting compliance.

Kind regards,

Nathan Bright

Principal Town Planner (Land Management – Project Planning and Corridor Management), South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department Transport and Main Roads
P 07 5563 6652 **M** N/R
36-38 Cotton Street, Nerang, Qld 4211

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Subject: RE: Royalties Payment

N/R

You can contact the South Coast DTMR office to arrange the payments, their email is scr.calm@tmr.qld.gov and phone number is (07) 5563-6600

I've cc'd them to this email so they have a heads up that you may be in touch re: condition 22.

Have a good day

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
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PO Box 3290, Southport QLD 4215

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Subject: RE: Royalties Payment

Alice,

Its condition no 22. We would like to know how we can make these payments.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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Subject: Royalties Payment

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Released under RTI - DSDMIP

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Kind Regards,

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Operations Manager

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To: SCR Corridor and Land Management Inbox
Cc: N/R
Subject: Re: Royalties Payment
Date: Tuesday, 29 July 2025 9:15:07 AM
Attachments: image008.png
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image012.png
image013.png
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Outlook-e3vleh4f.png
Outlook-dehoxtig.png
Outlook-uefdpxia.png
Outlook-gkqmqv4m.png
Outlook-hwrakz5u.png
SDA-0914-014441 v2.pdf

Hi there,
We are in the process of opening a quarry in mt walker, and with condition 22 of our DA we have to pay Royalities per tonne sold.

Just looking for the account details this needs to be paid into please?
thanks

All the best,

N/R **Engineer | GCE Contractors Pty Ltd**

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au
Address: 55 McDonald Road, Windsor, QLD 4030

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Operations Manager

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Cheers for now

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Planning Services, Planning Group
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Kind Regards,

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Queensland Government

Department of State Development, Infrastructure and Planning

Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Date: 22 May 2015

The Chief Executive Officer
Scenic Rim Regional Council
PO Box 25
Beaudesert QLD 4285
Mail@scenicrim.qld.gov.au

Attn: [redacted]

Dear [redacted]

Concurrence agency response—with conditions
Hinrichsen Road, Coleyville
(Given under section 285 of the *Sustainable Planning Act 2009*)

The referral agency material for the development application described below was received by the Department of State Development, Infrastructure and Planning under section 272 of the *Sustainable Planning Act 2009* on 30 January 2014.

Applicant details

Applicant name:	Mt Walker Quarry Pty Ltd
Applicant contact details:	c/- Ausrocks Pty Ltd, PO Box 1007, Toowong BC QLD 4556

Site details

Street address:	Hinrichsen Road, Coleyville
Lot on plan:	Lot 14 on RP21535
Local government area:	Scenic Rim Regional Council

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SEQ West Region
Level 4,117 Brisbane Street
PO Box 129
Ipswich QLD 4305

Application details

Proposed development:

- Development Permit for a Material Change of Use for Extractive Industry (with ancillary chemical storage [<40,000L diesel] and motor vehicle workshop activities)
- Development Permit for a Material Change of Use for an Environmentally Relevant Activity 16 Extractive and Screening Activities (Extracting 2(c) >1,000,000 t/year and Screening 3(c) >1,000,000 t/year)

Aspects of development and type of approval being sought

Nature of Development	Approval Type	Brief Proposal of Description	Level of Assessment
Material Change of Use	Development Permit	Quarry and associated uses such as chemical storage and motor vehicle workshop	Impact Assessment
Material Change of Use	Development Permit	Environmentally relevant activities for extractive and screening activities	Impact Assessment

Referral triggers

The development application was referred to the department under the following provisions of the *Sustainable Planning Regulation 2009*:

Referral trigger

Schedule 7, Table 2, Item 1 – Environmentally relevant activity

Schedule 7, Table 3, Item 2 – Development impacting on state transport infrastructure

Schedule 7, Table 3, Item 10 – Clearing vegetation

Conditions

Under section 287(1)(a) of the *Sustainable Planning Act 2009*, the conditions set out in Attachment 1 must be attached to any development approval.

Reasons for decision to impose conditions

Under section 289(1) of the *Sustainable Planning Act 2009*, the department must set out the reasons for the decision to impose conditions. These reasons are set out in Attachment 2.

Further advice

Under section 287(6) of the *Sustainable Planning Act 2009*, the department offers advice about the application to the assessment manager—see Attachment 3.

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RTI-Release.pdf - Page Number: 240 of 448

Approved plans and specifications

The department requires that the following plans and specifications set out below and in Attachment 4 must be attached to any development approval.

Drawing/Report Title	Prepared by	Date	Reference no.	Version/Issue
Aspect of development: Material Change of Use				
Offset and Compensatory Habitat Plan	Biosis	6 November 2014	Matter 18858	-
Mt Walker Quarry Extraction Area 1 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0011	Version 4.1
Mt Walker Quarry Extraction Area 2 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0013	Version 4.1
Mt Walker Quarry Extraction Area 3 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0015	Version 4.1
Mt Walker Quarry Extraction Area 4 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0017	Version 4.1
Mt Walker Quarry Extraction Area 5 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0020	Version 4.1
Referral Agency Response (Vegetation) Plan (Sheets 1 – 4)	Department of Natural Resources and Mines	22 April 2015	RARP SDA-0914-014441	-
Mount Walker Quarry Site Based Management Plan	Ausrocks Consulting Mining Engineers	November 2014	-	-
Amended Appendix 7 document Rehabilitation Plan	-	27 March 2015	-	Version 1.7
Mt Walker Quarry Neighbour & Haul Route Plan	Ausrocks Consulting Mining Engineers	10 November 2014	NHRP_001	Version 1.4
Site Based Management Plan – Figure 1.2: Site Access (Page 3)	Ausrocks Consulting Mining Engineers	November 2014	-	Version 1.7
Rosewood-Warrill View Rd/Haul Rd Intersection	BG & E	11 November 2014	SK-C-0100	Revision C
Rosewood-Warrill View Road/Ebenezer Road	BG & E	11 November 2014	SK-C-0101	Revision C
Rosewood-Warrill View Road/Anzac Road Intersection	BG & E	11 November 2014	SK-C-0102	Revision C
Rosewood-Warrill View Road Road Widening	BG & E	11 November 2014	SK-C-0103	Revision A

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Drawing/Report Title	Prepared by	Date	Reference no.	Version/Issue
Figure 1 of Traffic and Transport response to DSDIP request for information	Pekol Traffic and Transport	13 November 2014	-	-
Mt Walker Basalt Quarry Revised Pavement Impact Assessment	Pekol Traffic and Transport	6 May 2015	-	-
Structural Impact Assessment	BG & E	13 November 2014	B14015REP -S-0001	-
Mt Walker Quarry Site Layout Plan, Project No. AUQ00112	Ausrocks Consulting Mining Engineers	7 November 2014	LP_002	Version 3.2

A copy of this response has been sent to the applicant for their information.

For further information, please contact Kieran Hanna, Principal Planning Officer, SARA SEQ West Ipswich on (07) 3432 2404, or email IpswichSARA@dsdip.qld.gov.au who will be pleased to assist.

Yours sincerely

N/R

Nathan Rule
Manager - Planning

enc: Attachment 1—Conditions to be imposed
Attachment 2—Reasons for decision to impose conditions
Attachment 3—Further advice
Attachment 4—Approved Plans and Specifications

cc: Mt Walker Quarry Pty Ltd c/- Ausrocks Pty Ltd, N/R ausrocks.com.au
Department of Environment and Heritage Protection, sara@ehp.qld.gov.au
Department of Natural Resources and Mines, vegsouthregion@dnrm.qld.gov.au
Department of Transport and Main Roads, scrland@tmr.qld.gov.au

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 1—Conditions to be imposed

No.	Conditions	Condition timing
Development Permit – Material Change of Use for Extractive Industry (with ancillary chemical storage [<40,000L diesel] and motor vehicle workshop activities) and Development Permit – Material Change of Use for Environmentally Relevant Activity 16 Extractive and Screening Activities (Extracting 2(c) >1,000,000t/year and Screening 3(c) >1,000,000t/year)		
Environmentally relevant activity—Pursuant to section 255D of the *Sustainable Planning Act 2009*, the chief executive administering the *Sustainable Planning Act 2009* nominates the Director-General of the Department of Environment and Heritage Protection to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	The activity must be carried out generally in accordance with the *Mt Walker Quarry Site Layout Plan*, Drawing No. LP_002 Version 3.2, prepared by Ausrocks Consulting Mining Engineers Pty Ltd and dated 7 November 2014.	At all times
2.	The facility for the activity must include: • a storage area for hazardous contaminants that has secondary containment; and • secure containers for hazardous contaminants to prevent movement during a flood event.	At all times
3.	Except for the operational areas identified within condition 1, buffer zones must be established between the boundary of the activity and the boundary of the specific environmental value in accordance with Table 1 – Buffer Zones. Table 1 – Buffer Zones Environmental value: A watercourse, spring or wetland — Buffer distance: 50m	At all times
4.	In carrying out the activity, all reasonable and practicable measures must be taken to prevent and/or minimise harm to the habitat values for the tusked frog (*Adelotus brevis*).	At all times
Native vegetation—Pursuant to section 255D of the *Sustainable Planning Act 2009*, the chief executive administering the *Sustainable Planning Act 2009* nominates the Director-General of the Department of Natural Resources and Mines (DNRM) to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
5.	(a) An offset for the impact of clearing 0.1 hectares of assessable vegetation associated with a watercourse must be provided to DNRM as identified on the drawing titled *Offset and Compensatory Habitat Plan*, Matter 18858, prepared by Biosis and dated 6 November 2014. (b) An Offset and Compensatory Habitat Management Plan must be submitted to DNRM. The Offset and Compensatory Habitat Management Plan must comply with the requirements of the *Policy for Vegetation Management Offsets, Version 3*, prepared by the Department of Environment and Resource	(a), (b) and (c): Prior to the clearing of vegetation

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No.	Conditions	Condition timing
	Management and dated 20 September 2011. (c) Register on the title of Lot 14 on RP21535 an approved legally binding mechanism identified in the Policy for Vegetation Management Offsets to protect the vegetation management offset and compensatory habitat area identified on the drawing titled *Offset and Compensatory Habitat Plan*, Matter 18858, prepared by Biosis and dated 6 November 2014.	
6.	The development must be carried out generally in accordance with the following plans: • Mt Walker Quarry Extraction Area 1 Plan, Drawing No. SP_0011 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 2 Plan, Drawing No. SP_0013 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 3 Plan, Drawing No. SP_0015 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 4 Plan, Drawing No. SP_0017 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 5 Plan, Drawing No. SP_0020 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015.	At all times
7.	Clearing of vegetation is not permitted in Area A (A1 and A2) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015, except for: (i) establishing the site entry, site office, car park, vehicle turnaround, weighbridge and vehicle wash down area within the general location shown on *Mt Walker Quarry Extraction Area 1 Plan*, Drawing No. SP_0011 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015; and (ii) the internal road between the processing area and extraction area within the general location shown on *Mt Walker Quarry Extraction Area 1 Plan*, Drawing No. SP_0011 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015.	At all times
8.	Clearing of vegetation is permitted in Area B (B1 and B2) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015. Clearing must be staged in line with operational needs that restrict clearing to the current operational area.	At all times
9.	Clearing of vegetation is not permitted in Area C (C1 and C2) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015, unless the clearing is in accordance with the approved Offset and Compensatory Habitat Management Plan.	At all times

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No.	Conditions	Condition timing
10.	Clearing of vegetation is not permitted in Area D (D1, D2 and D3) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015, unless the clearing is in accordance with the approved Offset and Compensatory Habitat Management Plan.	At all times
11.	Measures used to stabilise excavation areas must not encroach into Area A, C or D.	At all times
12.	The development must be carried out in accordance with the standards and specifications detailed in the *Mount Walker Quarry Site Based Management Plan*, prepared by Ausrocks Consulting Mining Engineers and dated November 2014, and any amendments that are consistent with best practice.	At all times
13.	The *Mount Walker Quarry Site Based Management Plan,* prepared by Ausrocks Consulting Mining Engineers and dated November 2014 must be revised to include the amended Appendix 7 document *Rehabilitation Plan, Version 1.7* and dated 27 March 2015.	Prior to the clearing of vegetation
14.	(a) The rocky outcrop and associated ridgeline must be replicated and revegetated in accordance with the *Rehabilitation Plan*, *Version 1.7*, dated 27 March 2015 – Appendix 7 of the *Mount Walker Quarry Site Based Management Plan*. (b) A written report must be provided to DNRM confirming that the rocky outcrop and associated ridgeline has been replicated and revegetated in accordance with this condition.	(a) and (b): Prior to the commencement of use of Stage 4
15.	All disturbed soil and excavated soil must either be contained within the construction boundary or securely stockpiled and respread in a location where its placement will not result in the clearing of vegetation in Areas A, C or D.	At all times
16.	The permit holder must ensure that: (i) a full copy of the development permit is held by; and (ii) the extent of clearing authorised by this development permit is properly understood by, any person(s) engaged or employed to carry out the clearing of the vegetation under this development permit.	At all times
State transport infrastructure—Pursuant to section 255D of the *Sustainable Planning Act 2009*, the chief executive administering the *Sustainable Planning Act 2009* nominates the Director-General of the Department of Transport and Main Roads (DTMR) to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
17.	The development must be carried out generally in accordance with the following plans: • *Mt Walker Quarry Neighbour & Haul Route Plan,* Drawing Number: NHRP_001 Version 1.4, prepared by Ausrocks Consulting Mining Engineers and dated 10 November 2014. • *Site Based Management Plan - Figure 1.2: SITE ACCESS* (Page 3), Version 1.7, prepared by Ausrocks Consulting Mining Engineers and dated November 2014.	At all times

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No.	Conditions	Condition timing
18.	(i) Road works comprising the upgrade of the Rosewood – Warrill View Road and Christensen Road intersection (including the extension or replacement of culverts) for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Rd / Haul Rd Intersection,* Sketch Number: SK-C-0100 Revision C prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with the DTMR's Road Planning and Design Manual 2nd Edition. (ii) The applicant must place two (2) *Trucks (crossing or entering)* signs (W5-22) for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, generally in accordance with the locations as shown on *Figure 1 of Traffic and Transport response to DSDIP request for information,* prepared by Pekol Traffic and Transport and dated 13 November 2014, and DTMR's Manual of Uniform Traffic Control Devices.	Prior to the commencement of use
19.	Road works comprising the widening of the intersection of Rosewood – Warrill View Road/Ebenezer Road for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Road/Ebenezer Road,* Sketch Number: SK-C-0101 Revision C, prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use of Stage 2 or once annual haulage exceeds 400,000 tonnes per year
20.	Road works comprising the widening of the intersection of Rosewood – Warrill View Road/Anzac Road for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Road/Anzac Road Intersection,* Sketch Number: SK-C-0102 Revision C, prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use of Stage 2 or once annual haulage exceeds 400,000 tonnes per year
21.	Road works comprising the widening of Rosewood – Warrill View Road for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Road Road Widening,* Sketch Number: SK-C-0103 Revision A, prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use of Stage 2 or once annual haulage exceeds 400,000 tonnes per year
22.	The applicant must pay an annual monetary contribution of $0.84 per tonne in accordance with the *Mt Walker Quarry Basalt Quarry Revised Pavement Impact Assessment* prepared by Pekol Traffic and Transport dated 6 May 2015 to the District Director of DTMR (South Coast District), towards protecting and maintaining the safety and efficiency of Rosewood-Warrill View Road and Ipswich-Rosewood Road. This monetary contribution shall be indexed based on the Road	Within 12 months of the commencement of use and every 12 months thereafter

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No.	Conditions	Condition timing
	and Bridge Construction Index, Queensland – Class 3101, published quarterly by the Australian Bureau of Statistics (ABS Cat No. 6427, Series ID A2333727L) to the date of payment.	
23.	Heavy vehicles as defined in the *Transport Operations (Road Use Management) Act 1995* associated with the proposed development are permitted only to use the route identified on *Site Based Management Plan - Figure 1.2: Site Access* (Page 3), Version 1.7, prepared by Ausrocks Consulting Mining Engineers and dated November 2014 as the haul route.	At all times
24.	Road works comprising the following upgrade of Blundells Gully (BIS 8381) bridge and road layout, for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided: • Convert the two lanes to one lane for two way directional traffic. The bridge structure treatments and road layout must be designed and constructed in accordance with the following: • *Structural Impact Assessment,* reference B14015-REP-S-0001, prepared by BG & E and dated 13 November 2014. • DTMR's Manual of Uniform Traffic Control Devices. • DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 2—Reasons for decision to impose conditions

The reasons for this decision are:

- To ensure the development is carried out in a manner that complies with the State Development Assessment Provisions.
- To ensure the development is carried out generally in accordance with the plans of development submitted with the application.
- To ensure the development is carried out in accordance with the site based management plan.
- To ensure that the risk of hazardous contaminates being released into the surrounding environment either as a result of spillages, leakers or during a flood event is managed.
- To ensure adequate buffer zones are provided to minimise the potential for the activity to impact on the identified environmental values.
- To ensure that an environmental offset is provided to compensate for the impacts generated by the development.
- To ensure the clearing works are carried out in the location and to the extent specified on the approved plans.
- To ensure that the impacts of clearing works is managed and controlled.
- To ensure the person undertaking the clearing works is aware of, and understands, all of the requirements and conditions associated with the carrying out of the works.
- To ensure that road works are undertaken in accordance with the recommendations of the technical reports submitted with the application.
- To ensure the turning movements of vehicles maintains the safety and efficiency of the state-controlled road.
- To ensure the road works on the state-controlled road network are undertaken in accordance with applicable standards.
- To ensure the development does not compromise the safe and efficient management and operation of state-controlled roads.
- To offset the impacts of development on the safety and efficiency of the state-controlled road.

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 3—Further advice

General advice	
1.	**B-Double Haulage Route** The applicant proposes to use B-double heavy vehicles as part of the proposed development. The proposed haulage route is not currently approved as a B-double route and requires this approval prior to commencement of B-double haulage. Information about applying for a B-double permit is available online at the Department of Transport and Main Roads website at http://www.tmr.qld.gov.au/business-industry/Heavy-vehicles/Multi-combination-vehicles.aspx.
2.	**Works within state-controlled road reserve** Under section 33 of the *Transport Infrastructure Act 1994*, written approval is required from the Department of Transport and Main Roads to carry out road works, including road access works, on a state-controlled road. Please contact the Department of Transport and Main Roads' South Coast District on 5563 6600 to make an application for road works approval. This approval must be obtained prior to commencing any works on the state-controlled road reserve. The approval process may require the approval of engineering designs of the proposed works, certified by a Registered Professional Engineer of Queensland (RPEQ).
3.	**Water** The taking or interfering with groundwater, either artesian or subartesian water, surface water and overland flow is regulated by the provisions of the *Water Act 2000* and the Sustainable Planning Regulation 2009. This development application does not include an operational works aspect of development for the taking or interfering with water and therefore a further approval and a water licence may be required if the development will take or interfere with regulated water.

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 4—Approved plans and specifications

Released under RTI - DTMR

From: Nathan A Bright
To: N/R accounts@gcecontractors.com
Cc: SCR Corridor and Land Management Inbox; Ken W Jensen
Subject: RE: Pavement Impacts and Conditioned requirements - Mt Walker Quarry
Date: Tuesday, 29 July 2025 11:02:00 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
SDA-0914-014441 v2.pdf
image009.png
image010.jpg

Hi N/R

Copy Ken and Corridor Management Inbox

Pavement Impacts and Conditioned requirements - Mt Walker Quarry

Thank you for your email, I have tried to return your call.

I understand that as per the letter dated 22 May 2015 and titled Referral Agency Response for Mount Walker Quarry that you have requirements to fulfill in terms of pavement impact contributions.

I understand that you have road works applications underway as well. That is section 33 road works with TMR.

My questions is, has the use commenced operations for the extractive industry? In accordance with the conditions and technical reports there is conditioned and indexed requirements. Condition 22 outlines the requirements.

Please make contact at your earliest and we can assist you in meeting your conditioned obligations.

Process for meeting compliance

In order to advise about the pavement impacts and contributions you should provide records or evidence of extracted materials (sometimes excel spreadsheet, weight bridge records and so forth), estimate of contribution based on the condition and technical reports, indexation and any workings of this calculation.

TMR will need to set you up as a customer in our system and invoice you for the amount of pavement impact.

You should provide this evidence and include RPEQ certification or statutory declaration to verify payment. We usually receive a payment request from the Accountant, signed and verified for the relevant company.

Information we require to generate a customer and invoice includes the particulars below:

Reference No. TMR14-009023 and SDA-0914-014441

Customer Name	

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TMR Customer Number (if known)	
Trading Name (If any)	
ABN	
Address	
Postal Address (if any)	
Account Contact Person	
Contact Phone Number and Email	

You can choose to undertake this process on a regular basis, please advise 12 monthly, quarterly or appropriate time period, the indexation for the relevant quarter will need to be applied to contributions.

I trust this assists with answering your emails in this regard. Please make contact if you need to clarify this process in meeting compliance.

Kind regards,

Nathan Bright

Principal Town Planner (Land Management – Project Planning and Corridor Management), South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department Transport and Main Roads
P 07 5563 6652 **M** N/R
36-38 Cotton Street, Nerang, Qld 4211

Discover the story on the 'Travelling' by Gilimbaa' artwork included in our Acknowledgment statement above.

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From: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Sent: Tuesday, 29 July 2025 8:30 AM
To N/R @gcecontractors.com>
Cc N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: RE: Royalties Payment

N/R

You can contact the South Coast DTMR office to arrange the payments, their email is scr.calm@tmr.qld.gov and phone number is (07) 5563-6600

I've cc'd them to this email so they have a heads up that you may be in touch re: condition 22.

Have a good day

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
P 5644 3223
Level 9, 12-14 Marine Parade, Southport QLD 4215
PO Box 3290, Southport QLD 4215

From: N/R gcecontractors.com>
Sent: Monday, 28 July 2025 3:52 PM
To: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Cc: N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>
Subject: RE: Royalties Payment

Alice,

Its condition no 22. We would like to know how we can make these payments.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Sent: Monday, 28 July 2025 2:41 PM
To N/R @gcecontractors.com>
Cc N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>
Subject: RE: Royalties Payment

Hi N/R

Nice to hear from you.

Could you clarify which condition from SARA's referral agency response you are referring to? I've attached for ease of reference.

Cheers for now

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
P 5644 3223
Level 9, 12-14 Marine Parade, Southport QLD 4215
PO Box 3290, Southport QLD 4215

From N/R @gcecontractors.com>
Sent: Friday, 25 July 2025 11:34 AM
To: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Cc N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R gcecontractors.com>
Subject: Royalties Payment

Alice,

I hope this message finds you well.

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I'm seeking clarification regarding a condition attached to our Development Approval (DA). Specifically, could you please advise who we are required to pay the royalties to in relation to this condition?

Your guidance on this would be greatly appreciated.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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Queensland Government

Department of State Development, Infrastructure and Planning

Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Date: 22 May 2015

The Chief Executive Officer
Scenic Rim Regional Council
PO Box 25
Beaudesert QLD 4285
Mail@scenicrim.qld.gov.au

Attn: Mr John Creagan

Dear Mr Creagan

Concurrence agency response—with conditions
Hinrichsen Road, Coleyville
(Given under section 285 of the *Sustainable Planning Act 2009*)

The referral agency material for the development application described below was received by the Department of State Development, Infrastructure and Planning under section 272 of the *Sustainable Planning Act 2009* on 30 January 2014.

Applicant details

Applicant name:	Mt Walker Quarry Pty Ltd
Applicant contact details:	c/- Ausrocks Pty Ltd, PO Box 1007, Toowong BC QLD 4556

Site details

Street address:	Hinrichsen Road, Coleyville
Lot on plan:	Lot 14 on RP21535
Local government area:	Scenic Rim Regional Council

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SEQ West Region
Level 4,117 Brisbane Street
PO Box 129
Ipswich QLD 4305

Application details

Proposed development:

- Development Permit for a Material Change of Use for Extractive Industry (with ancillary chemical storage [<40,000L diesel] and motor vehicle workshop activities)
- Development Permit for a Material Change of Use for an Environmentally Relevant Activity 16 Extractive and Screening Activities (Extracting 2(c) >1,000,000 t/year and Screening 3(c) >1,000,000 t/year)

Aspects of development and type of approval being sought

Nature of Development	Approval Type	Brief Proposal of Description	Level of Assessment
Material Change of Use	Development Permit	Quarry and associated uses such as chemical storage and motor vehicle workshop	Impact Assessment
Material Change of Use	Development Permit	Environmentally relevant activities for extractive and screening activities	Impact Assessment

Referral triggers

The development application was referred to the department under the following provisions of the *Sustainable Planning Regulation 2009*:

Referral trigger

Schedule 7, Table 2, Item 1 – Environmentally relevant activity

Schedule 7, Table 3, Item 2 – Development impacting on state transport infrastructure

Schedule 7, Table 3, Item 10 – Clearing vegetation

Conditions

Under section 287(1)(a) of the *Sustainable Planning Act 2009*, the conditions set out in Attachment 1 must be attached to any development approval.

Reasons for decision to impose conditions

Under section 289(1) of the *Sustainable Planning Act 2009*, the department must set out the reasons for the decision to impose conditions. These reasons are set out in Attachment 2.

Further advice

Under section 287(6) of the *Sustainable Planning Act 2009*, the department offers advice about the application to the assessment manager—see Attachment 3.

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Approved plans and specifications

The department requires that the following plans and specifications set out below and in Attachment 4 must be attached to any development approval.

Drawing/Report Title	Prepared by	Date	Reference no.	Version/Issue
Aspect of development: Material Change of Use				
Offset and Compensatory Habitat Plan	Biosis	6 November 2014	Matter 18858	-
Mt Walker Quarry Extraction Area 1 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0011	Version 4.1
Mt Walker Quarry Extraction Area 2 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0013	Version 4.1
Mt Walker Quarry Extraction Area 3 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0015	Version 4.1
Mt Walker Quarry Extraction Area 4 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0017	Version 4.1
Mt Walker Quarry Extraction Area 5 Plan	Ausrocks Consulting Mining Engineers	21 May 2015	SP_0020	Version 4.1
Referral Agency Response (Vegetation) Plan (Sheets 1 – 4)	Department of Natural Resources and Mines	22 April 2015	RARP SDA-0914-014441	-
Mount Walker Quarry Site Based Management Plan	Ausrocks Consulting Mining Engineers	November 2014	-	-
Amended Appendix 7 document Rehabilitation Plan	-	27 March 2015	-	Version 1.7
Mt Walker Quarry Neighbour & Haul Route Plan	Ausrocks Consulting Mining Engineers	10 November 2014	NHRP_001	Version 1.4
Site Based Management Plan – Figure 1.2: Site Access (Page 3)	Ausrocks Consulting Mining Engineers	November 2014	-	Version 1.7
Rosewood-Warrill View Rd/Haul Rd Intersection	BG & E	11 November 2014	SK-C-0100	Revision C
Rosewood-Warrill View Road/Ebenezer Road	BG & E	11 November 2014	SK-C-0101	Revision C
Rosewood-Warrill View Road/Anzac Road Intersection	BG & E	11 November 2014	SK-C-0102	Revision C
Rosewood-Warrill View Road Road Widening	BG & E	11 November 2014	SK-C-0103	Revision A

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Drawing/Report Title	Prepared by	Date	Reference no.	Version/Issue
Figure 1 of Traffic and Transport response to DSDIP request for information	Pekol Traffic and Transport	13 November 2014	-	-
Mt Walker Basalt Quarry Revised Pavement Impact Assessment	Pekol Traffic and Transport	6 May 2015	-	-
Structural Impact Assessment	BG & E	13 November 2014	B14015REP -S-0001	-
Mt Walker Quarry Site Layout Plan, Project No. AUQ00112	Ausrocks Consulting Mining Engineers	7 November 2014	LP_002	Version 3.2

A copy of this response has been sent to the applicant for their information.

For further information, please contact Kieran Hanna, Principal Planning Officer, SARA SEQ West Ipswich on (07) 3432 2404, or email IpswichSARA@dsdip.qld.gov.au who will be pleased to assist.

Yours sincerely

N/R

Nathan Rule
Manager - Planning

enc: Attachment 1—Conditions to be imposed
Attachment 2—Reasons for decision to impose conditions
Attachment 3—Further advice
Attachment 4—Approved Plans and Specifications

cc: Mt Walker Quarry Pty Ltd c/- Ausrocks Pty Ltd, N/R @ausrocks.com.au
Department of Environment and Heritage Protection, sara@ehp.qld.gov.au
Department of Natural Resources and Mines, vegsouthregion@dnrm.qld.gov.au
Department of Transport and Main Roads, scrland@tmr.qld.gov.au

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 1—Conditions to be imposed

No.	Conditions	Condition timing
Development Permit – Material Change of Use for Extractive Industry (with ancillary chemical storage [<40,000L diesel] and motor vehicle workshop activities) and Development Permit – Material Change of Use for Environmentally Relevant Activity 16 Extractive and Screening Activities (Extracting 2(c) >1,000,000t/year and Screening 3(c) >1,000,000t/year)		
Environmentally relevant activity—Pursuant to section 255D of the *Sustainable Planning Act 2009*, the chief executive administering the *Sustainable Planning Act 2009* nominates the Director-General of the Department of Environment and Heritage Protection to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	The activity must be carried out generally in accordance with the *Mt Walker Quarry Site Layout Plan*, Drawing No. LP_002 Version 3.2, prepared by Ausrocks Consulting Mining Engineers Pty Ltd and dated 7 November 2014.	At all times
2.	The facility for the activity must include: • a storage area for hazardous contaminants that has secondary containment; and • secure containers for hazardous contaminants to prevent movement during a flood event.	At all times
3.	Except for the operational areas identified within condition 1, buffer zones must be established between the boundary of the activity and the boundary of the specific environmental value in accordance with Table 1 – Buffer Zones. Table 1 – Buffer Zones Environmental value: A watercourse, spring or wetland — Buffer distance: 50m	At all times
4.	In carrying out the activity, all reasonable and practicable measures must be taken to prevent and/or minimise harm to the habitat values for the tusked frog (*Adelotus brevis*).	At all times
Native vegetation—Pursuant to section 255D of the *Sustainable Planning Act 2009*, the chief executive administering the *Sustainable Planning Act 2009* nominates the Director-General of the Department of Natural Resources and Mines (DNRM) to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
5.	(a) An offset for the impact of clearing 0.1 hectares of assessable vegetation associated with a watercourse must be provided to DNRM as identified on the drawing titled *Offset and Compensatory Habitat Plan*, Matter 18858, prepared by Biosis and dated 6 November 2014. (b) An Offset and Compensatory Habitat Management Plan must be submitted to DNRM. The Offset and Compensatory Habitat Management Plan must comply with the requirements of the *Policy for Vegetation Management Offsets, Version 3*, prepared by the Department of Environment and Resource	(a), (b) and (c): Prior to the clearing of vegetation

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No.	Conditions	Condition timing
	Management and dated 20 September 2011. (c) Register on the title of Lot 14 on RP21535 an approved legally binding mechanism identified in the Policy for Vegetation Management Offsets to protect the vegetation management offset and compensatory habitat area identified on the drawing titled *Offset and Compensatory Habitat Plan*, Matter 18858, prepared by Biosis and dated 6 November 2014.	
6.	The development must be carried out generally in accordance with the following plans: • Mt Walker Quarry Extraction Area 1 Plan, Drawing No. SP_0011 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 2 Plan, Drawing No. SP_0013 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 3 Plan, Drawing No. SP_0015 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 4 Plan, Drawing No. SP_0017 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015. • Mt Walker Quarry Extraction Area 5 Plan, Drawing No. SP_0020 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015.	At all times
7.	Clearing of vegetation is not permitted in Area A (A1 and A2) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015, except for: (i) establishing the site entry, site office, car park, vehicle turnaround, weighbridge and vehicle wash down area within the general location shown on *Mt Walker Quarry Extraction Area 1 Plan*, Drawing No. SP_0011 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015; and (ii) the internal road between the processing area and extraction area within the general location shown on *Mt Walker Quarry Extraction Area 1 Plan*, Drawing No. SP_0011 Version 4.1, prepared by Ausrocks Consulting Mining Engineers and dated 21 May 2015.	At all times
8.	Clearing of vegetation is permitted in Area B (B1 and B2) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015. Clearing must be staged in line with operational needs that restrict clearing to the current operational area.	At all times
9.	Clearing of vegetation is not permitted in Area C (C1 and C2) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015, unless the clearing is in accordance with the approved Offset and Compensatory Habitat Management Plan.	At all times

RESPONSE - DTMR

No.	Conditions	Condition timing
10.	Clearing of vegetation is not permitted in Area D (D1, D2 and D3) as identified on Referral Agency Response (Vegetation) Plan RARP SDA-0914-014441, dated 22 April 2015, unless the clearing is in accordance with the approved Offset and Compensatory Habitat Management Plan.	At all times
11.	Measures used to stabilise excavation areas must not encroach into Area A, C or D.	At all times
12.	The development must be carried out in accordance with the standards and specifications detailed in the *Mount Walker Quarry Site Based Management Plan*, prepared by Ausrocks Consulting Mining Engineers and dated November 2014, and any amendments that are consistent with best practice.	At all times
13.	The *Mount Walker Quarry Site Based Management Plan,* prepared by Ausrocks Consulting Mining Engineers and dated November 2014 must be revised to include the amended Appendix 7 document *Rehabilitation Plan, Version 1.7* and dated 27 March 2015.	Prior to the clearing of vegetation
14.	(a) The rocky outcrop and associated ridgeline must be replicated and revegetated in accordance with the *Rehabilitation Plan*, *Version 1.7*, dated 27 March 2015 – Appendix 7 of the *Mount Walker Quarry Site Based Management Plan*. (b) A written report must be provided to DNRM confirming that the rocky outcrop and associated ridgeline has been replicated and revegetated in accordance with this condition.	(a) and (b): Prior to the commencement of use of Stage 4
15.	All disturbed soil and excavated soil must either be contained within the construction boundary or securely stockpiled and respread in a location where its placement will not result in the clearing of vegetation in Areas A, C or D.	At all times
16.	The permit holder must ensure that: (i) a full copy of the development permit is held by; and (ii) the extent of clearing authorised by this development permit is properly understood by, any person(s) engaged or employed to carry out the clearing of the vegetation under this development permit.	At all times
State transport infrastructure—Pursuant to section 255D of the *Sustainable Planning Act 2009*, the chief executive administering the *Sustainable Planning Act 2009* nominates the Director-General of the Department of Transport and Main Roads (DTMR) to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
17.	The development must be carried out generally in accordance with the following plans: • *Mt Walker Quarry Neighbour & Haul Route Plan,* Drawing Number: NHRP_001 Version 1.4, prepared by Ausrocks Consulting Mining Engineers and dated 10 November 2014. • *Site Based Management Plan - Figure 1.2: SITE ACCESS* (Page 3), Version 1.7, prepared by Ausrocks Consulting Mining Engineers and dated November 2014.	At all times

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No.	Conditions	Condition timing
18.	(i) Road works comprising the upgrade of the Rosewood – Warrill View Road and Christensen Road intersection (including the extension or replacement of culverts) for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Rd / Haul Rd Intersection,* Sketch Number: SK-C-0100 Revision C prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with the DTMR's Road Planning and Design Manual 2nd Edition. (ii) The applicant must place two (2) *Trucks (crossing or entering)* signs (W5-22) for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, generally in accordance with the locations as shown on *Figure 1 of Traffic and Transport response to DSDIP request for information,* prepared by Pekol Traffic and Transport and dated 13 November 2014, and DTMR's Manual of Uniform Traffic Control Devices.	Prior to the commencement of use
19.	Road works comprising the widening of the intersection of Rosewood – Warrill View Road/Ebenezer Road for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Road/Ebenezer Road,* Sketch Number: SK-C-0101 Revision C, prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use of Stage 2 or once annual haulage exceeds 400,000 tonnes per year
20.	Road works comprising the widening of the intersection of Rosewood – Warrill View Road/Anzac Road for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Road/Anzac Road Intersection,* Sketch Number: SK-C-0102 Revision C, prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use of Stage 2 or once annual haulage exceeds 400,000 tonnes per year
21.	Road works comprising the widening of Rosewood – Warrill View Road for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided generally in accordance with the drawing *Rosewood-Warrill View Road Road Widening,* Sketch Number: SK-C-0103 Revision A, prepared by BG & E and dated 11 November 2014. The road works must be designed and constructed in accordance with DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use of Stage 2 or once annual haulage exceeds 400,000 tonnes per year
22.	The applicant must pay an annual monetary contribution of $0.84 per tonne in accordance with the *Mt Walker Quarry Basalt Quarry Revised Pavement Impact Assessment* prepared by Pekol Traffic and Transport dated 6 May 2015 to the District Director of DTMR (South Coast District), towards protecting and maintaining the safety and efficiency of Rosewood-Warrill View Road and Ipswich-Rosewood Road. This monetary contribution shall be indexed based on the Road	Within 12 months of the commencement of use and every 12 months thereafter

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No.	Conditions	Condition timing
	and Bridge Construction Index, Queensland – Class 3101, published quarterly by the Australian Bureau of Statistics (ABS Cat No. 6427, Series ID A2333727L) to the date of payment.	
23.	Heavy vehicles as defined in the *Transport Operations (Road Use Management) Act 1995* associated with the proposed development are permitted only to use the route identified on *Site Based Management Plan - Figure 1.2: Site Access* (Page 3), Version 1.7, prepared by Ausrocks Consulting Mining Engineers and dated November 2014 as the haul route.	At all times
24.	Road works comprising the following upgrade of Blundells Gully (BIS 8381) bridge and road layout, for which approval under section 33 of the *Transport Infrastructure Act 1994* must be obtained, must be provided: • Convert the two lanes to one lane for two way directional traffic. The bridge structure treatments and road layout must be designed and constructed in accordance with the following: • *Structural Impact Assessment,* reference B14015-REP-S-0001, prepared by BG & E and dated 13 November 2014. • DTMR's Manual of Uniform Traffic Control Devices. • DTMR's Road Planning and Design Manual 2nd Edition.	Prior to the commencement of use

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 2—Reasons for decision to impose conditions

The reasons for this decision are:

- To ensure the development is carried out in a manner that complies with the State Development Assessment Provisions.
- To ensure the development is carried out generally in accordance with the plans of development submitted with the application.
- To ensure the development is carried out in accordance with the site based management plan.
- To ensure that the risk of hazardous contaminates being released into the surrounding environment either as a result of spillages, leakers or during a flood event is managed.
- To ensure adequate buffer zones are provided to minimise the potential for the activity to impact on the identified environmental values.
- To ensure that an environmental offset is provided to compensate for the impacts generated by the development.
- To ensure the clearing works are carried out in the location and to the extent specified on the approved plans.
- To ensure that the impacts of clearing works is managed and controlled.
- To ensure the person undertaking the clearing works is aware of, and understands, all of the requirements and conditions associated with the carrying out of the works.
- To ensure that road works are undertaken in accordance with the recommendations of the technical reports submitted with the application.
- To ensure the turning movements of vehicles maintains the safety and efficiency of the state-controlled road.
- To ensure the road works on the state-controlled road network are undertaken in accordance with applicable standards.
- To ensure the development does not compromise the safe and efficient management and operation of state-controlled roads.
- To offset the impacts of development on the safety and efficiency of the state-controlled road.

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RTI-Release.pdf - Page Number: 265 of 448

Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 3—Further advice

General advice	
1.	**B-Double Haulage Route** The applicant proposes to use B-double heavy vehicles as part of the proposed development. The proposed haulage route is not currently approved as a B-double route and requires this approval prior to commencement of B-double haulage. Information about applying for a B-double permit is available online at the Department of Transport and Main Roads website at http://www.tmr.qld.gov.au/business-industry/Heavy-vehicles/Multi-combination-vehicles.aspx.
2.	**Works within state-controlled road reserve** Under section 33 of the *Transport Infrastructure Act 1994*, written approval is required from the Department of Transport and Main Roads to carry out road works, including road access works, on a state-controlled road. Please contact the Department of Transport and Main Roads' South Coast District on 5563 6600 to make an application for road works approval. This approval must be obtained prior to commencing any works on the state-controlled road reserve. The approval process may require the approval of engineering designs of the proposed works, certified by a Registered Professional Engineer of Queensland (RPEQ).
3.	**Water** The taking or interfering with groundwater, either artesian or subartesian water, surface water and overland flow is regulated by the provisions of the *Water Act 2000* and the Sustainable Planning Regulation 2009. This development application does not include an operational works aspect of development for the taking or interfering with water and therefore a further approval and a water licence may be required if the development will take or interfere with regulated water.

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Our reference: SDA-0914-014441
Your reference: MC.Bn13/00012

Attachment 4—Approved plans and specifications

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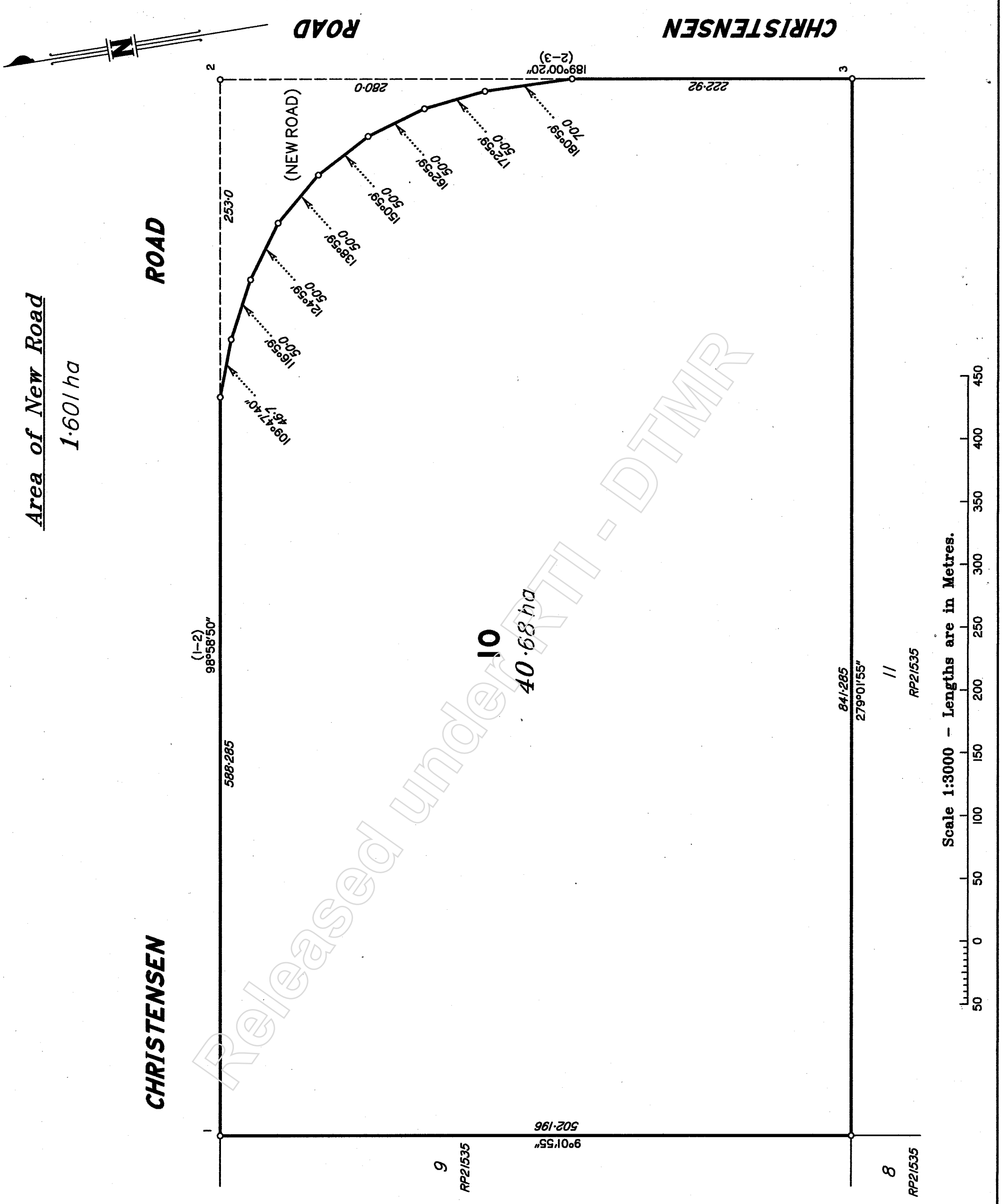
Land Title Act 1994 ; Land Act 1994
Form 21 Version 4

SURVEY PLAN

Sheet 1 of 2



B Planned & Surveyed Pty Ltd (A.C.N. 607 422 293) hereby certify that the corporation, by James Molesworth GOODWIN, Cadastral Surveyor, for whose work the corporation accepts responsibility, has made this plan under Section 16 of the Survey and Mapping Infrastructure Regulation 2014 and pursuant to the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the plan is accurate, and compiled from DP284188 in the Department of Resources.

14-03-2024
Date

N/R
Director

0 50 mm 100 mm 150 mm

State copyright reserved.

Plan of Lot 10

Cancelling Lot Lot 10 on RP21535

LOCAL GOVERNMENT: SCENIC RIM REGIONAL COUNCIL
LOCALITY: Mount Walker

Meridian: DP284188
Survey Records: No

Scale: 1:3000
Format: STANDARD

SP347467

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Land Title Act 1994 ; Land Act 1994
Form 21B Version 2

WARNING : Folded or Mutilated Plans will not be accepted.
Plans may be rolled.
Information may not be placed in the outer margins.

Sheet 2 of 2

(Dealing No.)

4. Lodged by

(Include address, phone number, email, reference, and Lodger Code)

1. Existing / Created

Title Reference	Description	New Lots	Road	Secondary Interests
11183223	Lot 10 on RP21535	10	New Road	———

MORTGAGE ALLOCATIONS

Mortgage	Lots Fully Encumbered	Lots Partially Encumbered
720872951	10	———

10	POR N6
Lots	Orig

2. Orig Grant Allocation :

3. References :
Dept File :
Local Govt :
Surveyor : 002327

5. Passed & Endorsed :
By :
Date :
Signed :
Designation :

6. Building Format Plans only.
I certify that :
* As far as it is practical to determine, no part of the building shown on this plan encroaches onto adjoining lots or road;
* Part of the building shown on this plan encroaches onto adjoining * lots and road

....
Cadastral Surveyor/Director* Date
*delete words not required

7. Lodgement Fees :

Survey Deposit	$.....
Lodgement	$.....
.....New Titles	$.....
Photocopy	$.....
Postage	$.....
TOTAL	$.....

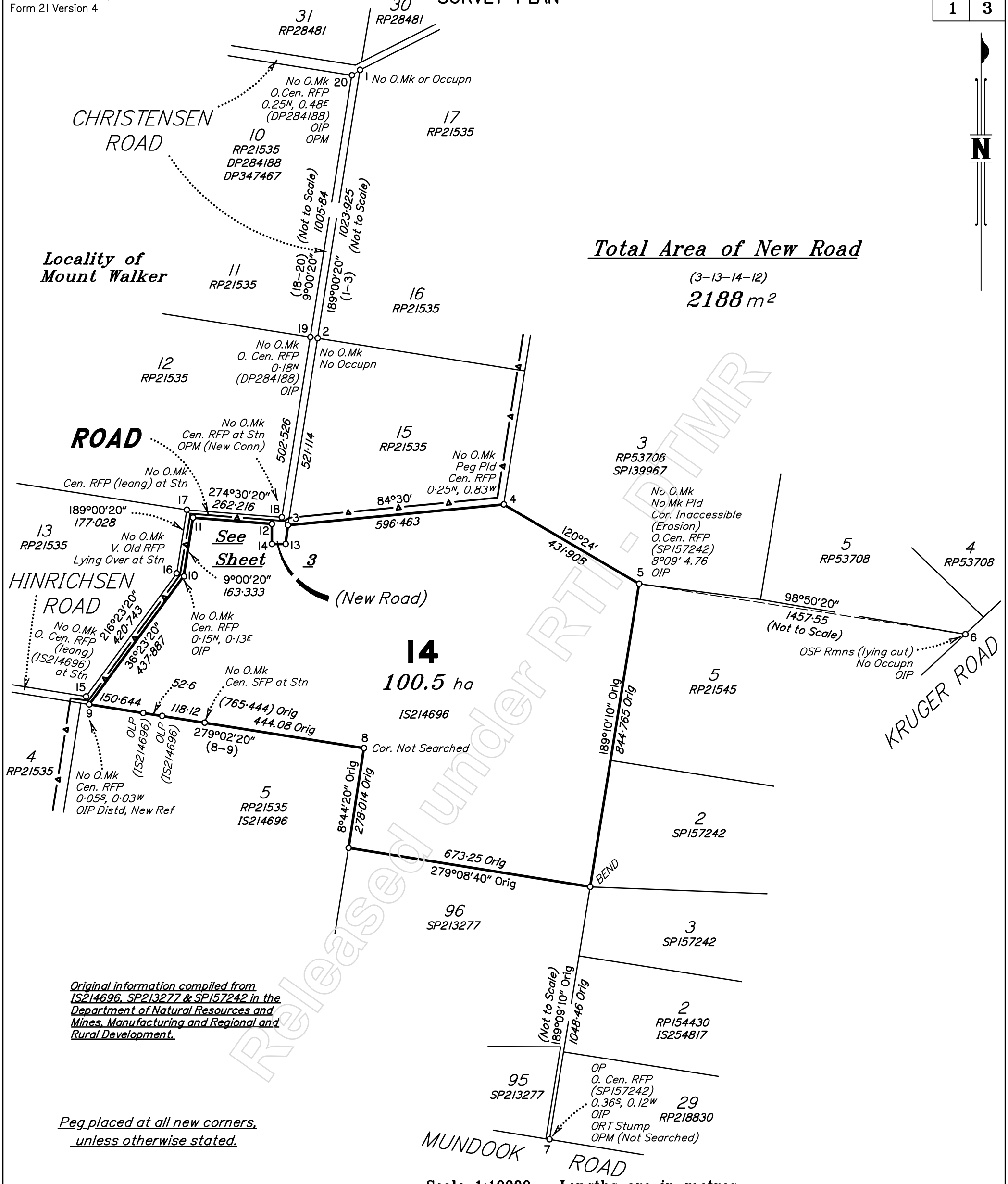
8. Insert Plan Number **SP347467**

Released under RTI - DTMR

Land Title Act 1994 ; Land Act 1994
Form 21 Version 4

SURVEY PLAN

Sheet 1 of 3



Total Area of New Road

(3–13–14–12)

2188 m²

Original information compiled from IS214696, SP213277 & SP157242 in the Department of Natural Resources and Mines, Manufacturing and Regional and Rural Development.

Peg placed at all new corners, unless otherwise stated.

Scale 1:10000 – Lengths are in metres.

100 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400
0 50 mm 100 mm 150 mm

State copyright reserved.

EAST COAST SURVEYS (Aust) Pty Ltd (ACN 111 434 005) hereby certify that the land comprised in this plan was surveyed by the corporation, by Alex Jon SYMONDS, Registered Surveyor, for whose work the corporation accepts responsibility, under the supervision of Paul Stephen REED, Cadastral Surveyor, and that the plan is accurate, that the said survey was performed in accordance with the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the said survey was completed on 25th FEBRUARY 2025.

Certified

East Coast Surveys (Aust) Pty Ltd ACN: 111 434 005 Seal

N/R

Date 11/03/2025

Plan of Lot 14

Cancelling Lot 14 on RP21535

LOCAL GOVERNMENT: SCENIC RIM REGIONAL COUNCIL

LOCALITY: COLEYVILLE

Meridian: MGA Zone 56 (Vide GNSS)

Survey Records: No

Scale: 1:10000

Format: STANDARD

SP350794

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Land Title Act 1994 ; Land Act 1994
Form 21B Version 2

WARNING : Folded or Mutilated Plans will not be accepted.
Plans may be rolled.
Information may not be placed in the outer margins.

Sheet 2 of 3

(Dealing No.)

4. Lodged by

(Include address, phone number, email, reference, and Lodger Code)

1. Existing / Created

Title Reference	Description	New Lots	Road	Secondary Interests
50443553	Lot 14 on RP21535	14	New Rd	–

MORTGAGE ALLOCATIONS

Mortgage	Lots Fully Encumbered	Lots Partially Encumbered
710643841	14	———

14	Por N6
Lots	Orig

2. Orig Grant Allocation :

3. References :
Dept File :
Local Govt : MCU24/033
Surveyor : 10663

5. Passed & Endorsed :
By : EAST COAST SURVEYS (AUST) PTY LTD
Date : 12 03 2025
Signed
Design N/R

6. Building Format Plans only.
I certify that :
* As far as it is practical to determine, no part of the building shown on this plan encroaches onto adjoining lots or road;
* Part of the building shown on this plan encroaches onto adjoining * lots and road

..... * .....
Cadastral Surveyor/Director* Date
*delete words not required

7. Lodgement Fees :

Survey Deposit	$.....
Lodgement	$.....
.....New Titles	$.....
Photocopy	$.....
Postage	$.....
TOTAL	$.....

8. Insert Plan Number SP350794

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Land Title Act 1994 ; Land Act 1994
Form 21A Version 1

ADDITIONAL SHEET

Sheet 3 of 3

REFERENCE MARKS

STN	TO	ORIGIN	BEARING	DIST
2	Pin		106°20′	4·875
3	Pin		94°27′	13·0
3	Pin		177°03′20″	30·97
4	Pin		229°04′	1·32
5	OIP	SP157242	11°51′	4·109
6	OIP	RP231703	131°39′10″	0·924
7	OIP	RP154430	189°09′10″	1·0
7	ORT Stump	RP213380	32°54′10″	5·834
9	OIP dist'd (New Ref)	IS214696	190°39′	1·57
10	OIP	IS214696	117°30′20″	1·03
11	OIP	IS214696	45°0′20″	0·81
13	Pin		89°58′	8·81
18	Pin		23°12′30″	2·47
19	OIP	DP284188	80°24′	1·74
20	OIP	DP284188	283°24′	6·315

MGA COORDINATES GDA–94

STATION	EAST	NORTH	ZONE	P.U.	LINEAGE	METHOD	REMARKS
PM145345	454328.455	6927894.018	56	0.036	DATUM	–	S/Picket
PM84408	461285.168	6928894.098	56	0.019	DATUM	–	S/Picket

PERMANENT MARKS

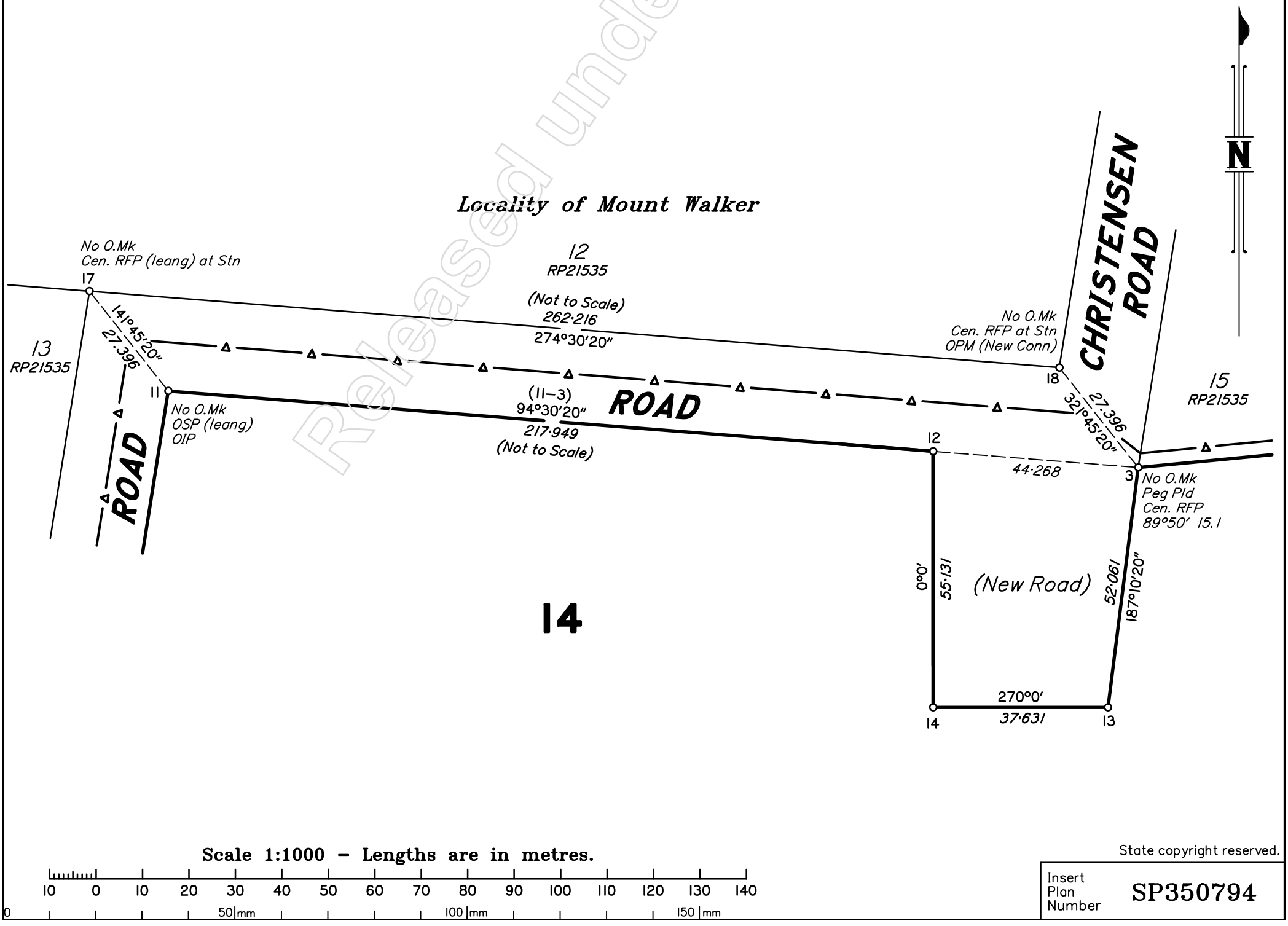
PM	ORIGIN	BEARING	DIST	NO	TYPE	
7 – OPM	IS254817	188°22′50″	19·11	171114	Star Picket	(Not Searched)
18 – OPM	DP284188	263°27′05″	3476·97	145345	Star Picket	(New Conn)
20 – OPM	DP284188	105°09′40″	3387·1	84408	Star Picket	

TRAVERSES ETC

LINE	BEARING	DISTANCE
20–1	57°03′50″	27·046
3–18	141°45′20″	27·4
17–11	141°45′20″	27·396
16–10	112°42′	20·705
15–9	157°42′50″	23·55

Reinstatement Report

- Plan Search – CH312088, DP284188, DP347467, IS214696, IS254817, RP21535, RP21545, RP53708, SP139967, SP157242 & SP213277
- This survey is to reconfigure Lot 14 with new road opening on Christensen Road.
- It should be noted that the survey is in a remote area, generally over rugged terrain, and in some cases no surveys have been conducted since RP21535 in 1898 and RP53708 in 1937. The area of survey is required to link several piecemeal modern surveys together that do not ordinarily join.
- Much of the survey was completed by GNSS (Network RTK) using coordinate comparisons of multiple independent observations (CSR 8.4.2.1). Conventional total station techniques were used where baselines were insufficient in length to satisfy (CSR 3.4.2).
- Datum was established between Stns 1a–3a holding the meridian of DP284188 and good agreement to GDA Datum OPMs (84408 & 145345) was found, with +9°00′20″ to RP21535 to swing it on to MGA meridian.
- Original reference marks fix Stns 5–7, 9–11, 19 and 20.
- Stn 19–20 measured and agreed with deed bearing and distance (RP21535). This is also in agreement with DP284188.
- Stn 18 was fixed at deed bearing from Stn 19 maintaining deed angle at Stn 18, adopting –394mm shortage in line 18–19. This fix is supported by the RFP found at the corner.
- Stn 3 fixed by deed bearing and distance from 18 (Deed Road Width maintained as per RP21535), +698mm excess adopted in line 3–11.
- Stn 4 reinstated by intersecting Deed distance from Stn 3 & 12, adopting +03′45″ bearing to RP21535.
- Traverse connection Stns 5–6 +699mm (excess) to Deed RP53708 (by calc) and bearing –1′10″ (by calc).
- The OIP at Stn 9 was found disturbed by livestock, was straightened and new reference given.
- Original survey marks from 1898 found at Stn 11 and 6 (OSP) & ORT Stump Stn 7.



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Insert Plan Number SP350794

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

Our Ref: 210173LET-02
Enquiries to: N/R

13th August 2025

Department Transport & Main Roads
South Coast Region,
Corridor and Land Management Team

Email: SouthCoast@tmr.qld.gov.au

Attention Mr Ken Jensen

Dear Ken

Re: ROSEWOOD WARRIL VIEW ROAD – CHRISTENSEN ROAD INTERSECTION UPGRADE WORKS
COUNCIL DA REF MCU 24/033
MT WALKER QUARRY COLEYVILLE HAULAGE ROAD
REF TMR24-042833

We are pleased to provide this submission is in response to your Request For Further Information TMR24-042833 dated 7th May 2025 Pthe contents of which are reproduced below in *italics* followed by our responses in standard text.

Notwithstanding Condition 1 above, the following design items are required to be addressed, and confirmed by providing technical justification/s and/or via provision of amended design plans:

Crossfall transition

- *Based on the cross sections and contours included on the layout plans, there appears to be a virtually instantaneous change in crossfall for southbound traffic at the northern end of the project, from -ve 3% crossfall at around CH 390m to +ve 3% (superelevation) at CH 380m. In accordance with Section 7.7 of AGRD Part 3, the rate of rotation should desirably not exceed 2.5% per second of travel. With reference to Table 7.11, a length of 73m is required at 110km/hr design speed to rotate the pavement from -ve 3% to +ve 3%. The transition to superelevation needs to be amended to comply with this requirement.*

- *Similarly, the change in crossfall for southbound traffic at the southern end of the project transitions from +ve 3% at CH60 to +ve 0.4% at CH40, resulting in a rate of rotation of 2.6% in 20m, which equates to around 3.97% per second of travel for a 110km/hr design speed. The transition from superelevation back to normal crossfall needs to be amended to comply with rate of rotation requirements.*

  Response: Both transitions have been reworked on the design drawings C861_E, C868_E and C863_E using the adopted transition lengths shown in the table below.

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Transition	Design Speed	Transition Length
Northern	110km/hr	80 m
Southern	110km/hr	80 m

Shoulder Width

- *As per Table 4.2.6(b) of TMR Supplement to AGRD Part 3, a traffic lane / shoulder width combination of 3.5m / 1.0m is required (based on AADT between 400 and 1,000, including quarry traffic). The current design includes 0.5m only sealed shoulders. Can the minimum shoulder width be increased to 1.0m to satisfy the above requirement? Otherwise, an EDD / DE Report will be required to justify the provision of shoulder widths less than the NDD requirement.*

  Response: The Rosewood Warrill View Road traffic lane / shoulder width has been upgraded to 3.5 m / 1.0m to meet the above requirement as shown on drawings CC860_E to C876_E with the exception of the North bound lane along the length of the bus bay at Chainage 280 m.

  The space is restricted between the bus bay and the road / property boundary to fit the proposed headwall and outlet Rip Rap for the proposed culvert 802 so a 0.5 m shoulder has been retained across the rear of the bus bay. Given that this the separation between the traffic lane is 3.5 m there is no need for a 1 .0m shoulder here or indeed a eeD/DE Report for this item.

Pavement Design

- *Pavement Type 4 (bus stop) is shown to be 110mm of Type 2.1 over 140mm of min CBR 15% material (total thickness 250mm) for a design loading of 3 x 10E4 ESA and subgrade CBR of 4%. With reference to Figure 12.2 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 300mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a Type 2.1 thickness of 140mm above the CBR 15% material. The Type 4 pavement design for the bus stops needs to be amended.*

  Response: The pavement design has been amended as shown on Drg C875C and C876C and as outlined in the Preliminary Pavement Design Report provided with this submission.

- *Pavement Type 3 includes a bottom layer (140mm) of Type 2.3 material. With reference to Figure 8.4 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 400mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a thickness of 180mm above CBR 15% material. The Type 3 pavement design could be amended to incorporate CBR 15% material for the bottom layer (increased in depth by 20mm to include construction tolerance) in place of the Type 2.3.*

  Response: The pavement design has been amended as shown on Drg C875C and C876C and as outlined in the Preliminary Pavement Design Report provided with this submission.

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Note - Calculation / estimation of the design traffic loadings for the 4 pavement types needs to be provided within the design development report (refer below) for TMR review. All assumptions used (for example, ESA per HV) need to be documented.

Response: Refer to the Preliminary Pavement Design Report submitted with this response.

Drainage

Is rock lining of the longitudinal drainage channels required for scour protection purposes due to high velocities? If not, it is recommended that ordinary grassed lined table / swale drains be provided along the sides of the road to provide consistency for future vegetation maintenance in the area.

Response: The flow velocities have been reviewed and the extent of rock lining reduced where possible.

Kerb and Channel

From the Christensen Rd cross sections, it appears that a kerb and channel is to be installed on the southern side of the road from approx. CH120 (Christensen Rd) through to around CH125 (Rosewood Warrill View Rd). No details about the type of kerb and channel is provided, including any backfill details at the top of the embankment where it is adjacent to Rosewood Warrill View Rd (it is expected that detail of the kerb profile and backfill would have been shown on the cross section at CH140). Details of the kerb and channel type and details about backfill to the kerb at the top of the embankment adjacent to Rosewood Warrill View Rd need to be provided.

Response: The intension was for the Kerb and channel to only extend sufficient distance to discharge into to the rock lined swale at around Ch 15 short of Ch 140m. on Rosewood Warrill View Road. The Kerb and Channel type is now noted on drawings C861_E and C869_C.

Pavement Markings and signage

- *Drawings C870 & C871should include reference to REGPs and RRPMs being installed in accordance with requirements of MUTCD.*

  Response: RRPMs are shown on drawings C870_E to C871_E.

- *An edge line is currently not indicated to be installed for the extent of the northbound BAR treatment (between CH50 and CH250). The edge line should be continued through the intersection at 3.5m offset form centre line as per normal.*

  Response: EL line has been added on drawings C870_E to C871_E.

- *As per MUTCD requirements, a pavement arrow (straight through / right turn) is not required in the northbound lane at the intersection as all movements are permitted.*

  Response: Pavement arrow has been removed on drawing C870_E.

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- *A sign combination (W5-22A/W1-3 with supplementary plate) is shown to be installed at approx. CH45, too close to the existing northbound 'Christensen Rd' sign. This sign should be retained at its current location (CH0).*

  Response: Noted This has been changed on drawing C870_E.

- *The existing 'Christensen Rd' sign at approx. CH300 is shown to be relocated, however its new location is not indicated.*

  Response: Only the original location is shown on the Demolition Plan drawing C820_C. The note on this drawing has been amended to refer to Drawing C870 for the relocated position.

- *A new 80km/hr speed limit is indicated to be implemented on Christensen Rd (currently 100km/hr as per general rural speed limit). As Rosewood Warrill View Rd has a speed limit of 100km/hr, additional 100km/hr speed signs will be required either side of the intersection (suggest opposite the curve warning / advisory speed signs) to indicate the change in limit when exiting Christensen Rd.*

  Response: Noted This has been changed on drawings C870_E and C871_E.

- *Two new 'Mt Walker Quarries Qld' signs are shown to be installed at approx. CH290 and CH410, however no details are provided. Any service / direction signs which are not compliant with standard MUTCD and/or not directly related to normal intersection signage are subject to separate approval processes and will not form part of the Section 33 approval and should therefore be removed from the drawings.*

  Response: The proposed Quarry related signs have been amended to standard directional signage in compliance with MUTCD as shown on C870_E and C871_E.

Design Report

Previously an EDD / DE Report was requested addressing the sight distance deficiency and proposed mitigation (extension of BAR) identified at the Development Application stage, which has not been received. It is noted that this project would generally fall into Road Design Class C category (as per TMR Supplement to AGRD Part 1), which would not require existing deficiencies against numerous NDD standards to be rectified, however they should be identified and noted which would be included within the Design Development Report.

As a minimum, it is requested that a Design Development Report (which includes the above sight distance matter and designed mitigation) be submitted. Please refer to the TMR template "Design Development Report (Small Projects)" available under the Road Planning and Design Manual tab on the department's webpage www.tmr.qld.gov.au.

Response: The Sight distance for cars using the intersection has been reviewed and the intersection has been found to comply with Table 3.2 Austroads Guide to Road Design part 4A as shown in the table below and on Drg C880_A.

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Sight Line	Austroads Min. Sight Distance (m)	Design Sight Distance (km/hr)	Design Sight Distance (m)
Left Hand	285	110	>285 m Refer Drg C880
Right Hand	285	110	>285 m Refer Drg C880

The BAR extension identified in the Development Application stage has been retained such that the intersection is now conservative compared to the minimum Austroads requirements.

Revised Civil Works Drawings and Preliminary Pavement Design Report will be provided as summarised on the Transmittal No 017 prepared by Nigel Fletcher & Associates Pty Ltd. Please provide access to your departments One Drive account so that we can upload these docuemnts.

Currently we are expecting the site survey for the remaining works required on the Rosewood Warrill View Road and expect to be able to submit these within the next few weeks. Could you please confirm your acceptance of this design and provide a Conditional Approval in order to progress the Section 33 application of the intersection works.

We trust that this is satisfactory, should you require any additional information please do not hesitate to contact the undersigned on N/R

Yours faithfully

N/R

Nigel Fletcher & Associates
N/R [redacted]
Director – Principal Engineer

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Document Transmittal Register

NIGEL FLETCHER & ASSOCIATES

Project: Mt Walker Quarry Christensen Road Upgrade Works

Client: GCE Contractors

TMR REVIEW

Project No 210173C

Doc Trans_Rev_017

Project Team	Issued by:																	
GCE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E
GCE N/R	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E
PTT													E	E	E			
SRRC														E	E			
TMR																E		E
A- Approval P- Prelim R- Revision X- Info T- Tender C- Construct	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	A
P- Print C- CD F- File	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
E- Email	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

Date & Drawing Revision Issued:

Document Ref. No.	Document Title	30-May-24	07-Jul-24	18-Jul-24	31-Jul-24	20-Aug-24	02-Oct-24	03-Oct-24	06-Nov-24	11-Nov-24	12-Dec-24	24-Dec-24	06-Jan-25	27-Feb-25	21-Mar-25	28-Mar-25	02-Apr-25	05-Aug-25	13-Aug-25
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Detail Design Drawings																			
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C002	Christensen Road General Notes Sheet 1 of 2											-			A				
C003	Christensen Road Site Layout Plan											D			F				
C004	Christensen Road Typical Cross Section		B		C	C		D				D			F				
C200	Christensen Road Earthworks Plan Sheet 1 of 7											A			C				
C201	Christensen Road Earthworks Plan Sheet 2 of 7											A			C				
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C206	Christensen Road Earthworks Plan Sheet 7 of 7											A			C				
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C225	Christensen Road Sediment and Erosion Plan Sheet 6 of 7											A			C				
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C227	Christensen Road Sediment and Erosion Details											A			C				
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C302	Christensen Road Roadworks Plan & Longitudinal Section Sheet 2 of 15	A	B		C	C		D				D			F				
C303	Christensen Road Roadworks Plan & Longitudinal Section Sheet 3 of 15	A	B		C	C		D				D			F				
C304	Christensen Road Roadworks Plan & Longitudinal Section Sheet 4 of 15	A	B		C	C		D				D			F				
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C310	Christensen Road Roadworks Plan & Longitudinal Section Sheet 10 of 15	A	B		C	C						D			F				
C311	Christensen Road Roadworks Plan & Longitudinal Section Sheet 11 of 15	A	B		C	D						D			F				
C312	Christensen Road Roadworks Plan & Longitudinal Section Sheet 12 of 15	A	B		C	D						D			F				
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C319	Christensen Road Longitudinal Sections - Interim Bend													A	-				
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C322	Christensen Road Roadworks Cross Sections Sheet 3 of 15	A	B		C	C						D			F				
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C333	Christensen Road Roadworks Cross Sections Sheet 14 of 15				C	C						D			F				
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C340	Christensen Road Catchment Layout Plan Sheet 1 of 12				C	D						D			F				
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C342	Christensen Road Culvert Sections and Plan Sheet 3 of 12				C	D						D			F				
C343	Christensen Road Culvert Sections and Plan Sheet 4 of 12				C	D						D			F				
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C349	Christensen Road Culvert Sections and Plan Sheet 10 of 12					D						D			F				
C350	Christensen Road Culvert Sections and Plan Sheet 11 of 12					D						D			F				
C351	Christensen Road Culvert Sections and Plan Sheet 12 of 12											D			F				
C352	High Impact (Red) Waterway Culvert Details														A				
C353	Stormwater Details														A				
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C361	Christensen Road Driveway Plan and Long Section Sheet 2 of 10	A			C	C						D			F				
C362	Christensen Road Driveway Plan and Long Section Sheet 3 of 10	A			C	C						D			F				
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C368	Christensen Road Driveway Plan and Long Section Sheet 9 of 10					C						D			F				
C369	Christensen Road Driveway Plan and Long Section Sheet 10 of 10											D			F				
C400	Swept Path Layout Plan Sheet 1 of 10				C	C						-			-				
C401	Swept Path Layout Plan Sheet 2 of 10				C	C						D			F				
C402	Swept Path Layout Plan Sheet 3 of 10				C	C						D			F				
C403	Swept Path Layout Plan Sheet 4 of 10				C	C						D			F				
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C407	Swept Path Layout Plan Sheet 8 of 10					C						D			F				
C408	Swept Path Layout Plan Sheet 9 of 10					C						D			F				
C409	Swept Path Layout Plan Sheet 10 of 10					C						D			F				
C430	Christensen Road Signage and Linemarking Plan Sheet 1 of 8											A			C				
C431	Christensen Road Signage and Linemarking Plan Sheet 2 of 8											A			C				
C432	Christensen Road Signage and Linemarking Plan Sheet 3 of 8											A			C				
C433	Christensen Road Signage and Linemarking Plan Sheet 4 of 8											A			C				
C434	Christensen Road Signage and Linemarking Plan Sheet 5 of 8											A			C				
C435	Christensen Road Signage and Linemarking Plan Sheet 6 of 8											A			C				
C436	Christensen Road Signage and Linemarking Plan Sheet 7 of 8											A			C				
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C453	Christensen Road Pavement Plan Sheet 4 of 8											A			C				
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C457	Christensen Road Pavement Plan Sheet 8 of 8											A			C				
C458	Christensen Road Pavement Details											A			C				
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SKC232-1	Roadworks Layout Plan Option 1 Sheet 2 of 4								A										
SKC233-1	Roadworks Layout Plan Option 1 Sheet 3 of 4								A										
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SKC232-2	Roadworks Layout Plan Option 2 Sheet 1 of 4								A										
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SKC233-2	Roadworks Layout Plan Option 2 Sheet 3 of 4								A										
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C800	Rosewood-Warrill Road Intersection Cover Sheet and Location Plan			A			B						C			D	D	E	E
C801	Rosewood-Warrill Road Intersection Standard Notes						B						C			D	D	E	E
C820	Demolition Layout Plan												A			B	B	C	C
C825	25 m B Double Swept Path Plan										A		C			C	C	D	D
C835	Rosewood-Warrill Road Erosion and Sedimentation Control Plan												B			C	C	D	D
C836	Rosewood-Warrill Road Erosion and Sedimentation Control Details												B			C	C	D	D
B840	Rosewood-Warrill Road Intersection Earthworks Plan												A			B	B	C	C
C860	Rosewood-Warrill Road Intersection Overall Layout Plan			A			B						C			D	D	E	E
C861	Rosewood-Warrill Road Intersection Layout Plan Sheet 1 of 2												A			D	D	E	E
C862	Rosewood-Warrill Road Intersection Layout Plan Sheet 2 of 2												A			D	D	E	E
C863	Rosewood-Warrill Road Sections												A			B	B	C	C
C864	Rosewood-Warrill Road Longitudinal Sections			A			B						C			D	D	E	E
C865	Rosewood-Warrill Road Cross Sections Sheet 1 of 3			A			B						C			D	D	E	E
C866	Rosewood-Warrill Road Cross Sections Sheet 2 of 3			A			B						C			D	D	E	E
C867	Rosewood-Warrill Road Cross Sections Sheet 3 of 3			A			B						C			D	D	E	E
C868	Christensen Road Longitudinal Sections			A			B						A			D	D	E	E
C869	Christensen Road Cross Sections Sheet			A			B						A			B	B	C	C
C870	Rosewood-Warrill Road Intersection Signage and Linemarking Plan Sheet 1 of 2			A			B						C			D	D	E	E
C871	Rosewood-Warrill Road Intersection Signage and Linemarking Plan Sheet 2 of 2			A			B						C			D	D	E	E
C875	Rosewood-Warrill Road Pavement Layout Plan Sheet 1 of 2												A			B	B	C	C
C876	Rosewood-Warrill Road Pavement Layout Plan Sheet 2 of 2												A			B	B	C	C
C880	Rosewood-Warrill Road Catchment Layout Plan																	A	A
C890	Rosewood-Warrill Road Intersection Site Line Plan												B			C	C	D	D
C891	Rosewood-Warrill Road Stormwater Layout Plan Sheet 1 of 2												A			B	B	C	C
C892	Rosewood-Warrill Road Stormwater Layout Plan Sheet 2 of 2												A			B	B	C	C
C895	Rosewood-Warrill Road Stormwater Culvert Sections Sheet 1 of 2												C			D	D	E	E
C896	Rosewood-Warrill Road Stormwater Culvert Sections Sheet 2 of 2												C			D	D	E	E
C897	Rosewood-Warrill Road Stormwater Longitudinal Sections												A			B	B	C	C
C898	Rosewood-Warrill Road Stormwater Calculations Sheet												A			B	B	C	C
C899	Rosewood-Warrill Road Stormwater Details															A	A	B	B
Electronic Files																			
Reports																			

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Document Transmittal Register

NIGEL FLETCHER & ASSOCIATES
ENGINEERS & PROJECT MANAGERS

Project: Mt Walker Quarry Christensen Road Upgrade Works

Client: GCE Contractors

TMR REVIEW

Project No 210173C

Doc Trans_Rev_017

Issued by:

		30-May-24	07-Jul-24	18-Jul-24	31-Jul-24	20-Aug-24	02-Oct-24	03-Oct-24	06-Nov-24	11-Nov-24	12-Dec-24	24-Dec-24	06-Jan-25	27-Feb-25	21-Mar-25	28-Mar-25	02-Apr-25	05-Aug-25	13-Aug-25
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PTT -														E	E	E			
SRRC															E	E			
TMR																	E		E
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E- Email		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

Date & Drawing Revision Issued:

Document Ref. No.	Document Title	30-May-24	07-Jul-24	18-Jul-24	31-Jul-24	20-Aug-24	02-Oct-24	03-Oct-24	06-Nov-24	11-Nov-24	12-Dec-24	24-Dec-24	06-Jan-25	27-Feb-25	21-Mar-25	28-Mar-25	02-Apr-25	05-Aug-25	13-Aug-25
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C306	Christensen Road Roadworks Plan & Longitudinal Section Sheet 6 of 15	A	B		C	C						D			F				
C307	Christensen Road Roadworks Plan & Longitudinal Section Sheet 7 of 15	A	B		C	C						D			F				
C308	Christensen Road Roadworks Plan & Longitudinal Section Sheet 8 of 15	A	B		C	D						D			F				
C309	Christensen Road Roadworks Plan & Longitudinal Section Sheet 9 of 15	A	B		C	C						D			F				
C310	Christensen Road Roadworks Plan & Longitudinal Section Sheet 10 of 15	A	B		C	C						D			F				
C311	Christensen Road Roadworks Plan & Longitudinal Section Sheet 11 of 15	A	B		C	D						D			F				
C312	Christensen Road Roadworks Plan & Longitudinal Section Sheet 12 of 15	A	B		C	D						D			F				
C313	Christensen Road Roadworks Plan & Longitudinal Section Sheet 13 of 15	A	B		C	D						D			F				
C314	Christensen Road Roadworks Plan & Longitudinal Section Sheet 14 of 15	A	B		C	D						D			F				
C315	Christensen Road Roadworks Plan & Longitudinal Section Sheet 15 of 15	A	B		C	C						D			F				
C318	Christensen Road Roadworks Layout Plan - Interim Bend													A	-				
C319	Christensen Road Longitudinal Sections - Interim Bend													A	-				
C320	Christensen Road Roadworks Cross Sections Sheet 1 of 15	A	B		C	C						D			F				
C321	Christensen Road Roadworks Cross Sections Sheet 2 of 15	A	B		C	C						D			F				
C322	Christensen Road Roadworks Cross Sections Sheet 3 of 15	A	B		C	C						D			F				
C323	Christensen Road Roadworks Cross Sections Sheet 4 of 15	A	B		C	C						D			F				
C324	Christensen Road Roadworks Cross Sections Sheet 5 of 15	A	B		C	C						D			F				
C325	Christensen Road Roadworks Cross Sections Sheet 6 of 15	A	B		C	C						D			F				
C326	Christensen Road Roadworks Cross Sections Sheet 7 of 15	A	B		C	C						D			F				
C327	Christensen Road Roadworks Cross Sections Sheet 8 of 15	A	B		C	C						D			F				
C328	Christensen Road Roadworks Cross Sections Sheet 9 of 15	A	B		C	C						D			F				
C329	Christensen Road Roadworks Cross Sections Sheet 10 of 15	A	B		C	C						D			F				
C330	Christensen Road Roadworks Cross Sections Sheet 11 of 15	A	B		C	C						D			F				
C331	Christensen Road Roadworks Cross Sections Sheet 12 of 15	A	B		C	C						D			F				
C332	Christensen Road Roadworks Cross Sections Sheet 13 of 15				C	C						D			F				
C333	Christensen Road Roadworks Cross Sections Sheet 14 of 15				C	C						D			F				
C334	Christensen Road Roadworks Cross Sections Sheet 15 of 15				C	C						D			F				
C900	Catchment Layout Plan																		
C340	Christensen Road Catchment Layout Plan Sheet 1 of 12				C	D						D			F				
C341	Christensen Road Culvert Sections and Plan Sheet 2 of 12				C	D						D			F				
C342	Christensen Road Culvert Sections and Plan Sheet 3 of 12				C	D						D			F				
C343	Christensen Road Culvert Sections and Plan Sheet 4 of 12				C	D						D			F				
C344	Christensen Road Culvert Sections and Plan Sheet 5 of 12				C	D						D			F				
C345	Christensen Road Culvert Sections and Plan Sheet 6 of 12				C	D						D			F				
C346	Christensen Road Culvert Sections and Plan Sheet 7 of 12				C	D						D			F				
C347	Christensen Road Culvert Sections and Plan Sheet 8 of 12				C	D						D			F				
C348	Christensen Road Culvert Sections and Plan Sheet 9 of 12				C	D						D			F				
C349	Christensen Road Culvert Sections and Plan Sheet 10 of 12					D						D			F				
C350	Christensen Road Culvert Sections and Plan Sheet 11 of 12					D						D			F				
C351	Christensen Road Culvert Sections and Plan Sheet 12 of 12											D			F				
C352	High Impact (Red) Waterway Culvert Details														A				
C353	Stormwater Details														A				
C360	Christensen Road Driveway Plan and Long Section Sheet 1 of 10	A			C	C						D			F				
C361	Christensen Road Driveway Plan and Long Section Sheet 2 of 10	A			C	C						D			F				
C362	Christensen Road Driveway Plan and Long Section Sheet 3 of 10	A			C	C						D			F				
C363	Christensen Road Driveway Plan and Long Section Sheet 4 of 10				C	C						D			F				
C364	Christensen Road Driveway Plan and Long Section Sheet 5 of 10				C	C						D			F				
C365	Christensen Road Driveway Plan and Long Section Sheet 6 of 10					C						D			F				
C366	Christensen Road Driveway Plan and Long Section Sheet 7 of 10					C						D			F				
C367	Christensen Road Driveway Plan and Long Section Sheet 8 of 10					C						D			F				
C368	Christensen Road Driveway Plan and Long Section Sheet 9 of 10					C						D			F				
C369	Christensen Road Driveway Plan and Long Section Sheet 10 of 10											D			F				
C400	Swept Path Layout Plan Sheet 1 of 10				C	C						-			-				
C401	Swept Path Layout Plan Sheet 2 of 10				C	C						D			F				
C402	Swept Path Layout Plan Sheet 3 of 10				C	C						D			F				
C403	Swept Path Layout Plan Sheet 4 of 10				C	C						D			F				
C404	Swept Path Layout Plan Sheet 5 of 10				C	C						D			F				
C405	Swept Path Layout Plan Sheet 6 of 10				C	C						D			F				
C406	Swept Path Layout Plan Sheet 7 of 10					C						D			F				
C407	Swept Path Layout Plan Sheet 8 of 10					C						D			F				
C408	Swept Path Layout Plan Sheet 9 of 10					C						D			F				
C409	Swept Path Layout Plan Sheet 10 of 10					C						D			F				
C430	Christensen Road Signage and Linemarking Plan Sheet 1 of 8											A			C				
C431	Christensen Road Signage and Linemarking Plan Sheet 2 of 8											A			C				
C432	Christensen Road Signage and Linemarking Plan Sheet 3 of 8											A			C				
C433	Christensen Road Signage and Linemarking Plan Sheet 4 of 8											A			C				
C434	Christensen Road Signage and Linemarking Plan Sheet 5 of 8											A			C				
C435	Christensen Road Signage and Linemarking Plan Sheet 6 of 8											A			C				
C436	Christensen Road Signage and Linemarking Plan Sheet 7 of 8											A			C				
C437	Christensen Road Signage and Linemarking Plan Sheet 8 of 8											A			C				
C450	Christensen Road Pavement Plan Sheet 1 of 8											A			C				
C451	Christensen Road Pavement Plan Sheet 2 of 8											A			C				
C452	Christensen Road Pavement Plan Sheet 3 of 8											A			C				
C453	Christensen Road Pavement Plan Sheet 4 of 8											A			C				
C454	Christensen Road Pavement Plan Sheet 5 of 8											A			C				
C455	Christensen Road Pavement Plan Sheet 6 of 8											A			C				
C456	Christensen Road Pavement Plan Sheet 7 of 8											A			C				
C457	Christensen Road Pavement Plan Sheet 8 of 8											A			C				
C458	Christensen Road Pavement Details											A			C				
SKC231-1	Roadworks Layout Plan Option 1 Sheet 1 of 4								A										
SKC232-1	Roadworks Layout Plan Option 1 Sheet 2 of 4								A										
SKC233-1	Roadworks Layout Plan Option 1 Sheet 3 of 4								A										
SkC234-1	Roadworks Layout Plan Option 1 Sheet 4 of 4								A										
SKC232-2	Roadworks Layout Plan Option 2 Sheet 1 of 4								A										
SKC232-2	Roadworks Layout Plan Option 2 Sheet 2 of 4								A										
SKC233-2	Roadworks Layout Plan Option 2 Sheet 3 of 4								A										
SKC234-2	Roadworks Layout Plan Option 2 Sheet 4 of 4								A										
	TMR ROADWORKS																		
C800	Rosewood-Warrill Road Intersection Cover Sheet and Location Plan			A			B						C			D	D	E	E
C801	Rosewood-Warrill Road Intersection Standard Notes						B						C			D	D	E	E
C820	Demolition Layout Plan												A			B	B	C	C
C825	25 m B Double Swept Path Plan										A		C			C	C	D	D
C835	Rosewood-Warrill Road Erosion and Sedimentation Control Plan												B			C	C	D	D
C836	Rosewood-Warrill Road Erosion and Sedimentation Control Details												B			C	C	D	D
B840	Rosewood-Warrill Road Intersection Earthworks Plan												A			B	B	C	C
C860	Rosewood-Warrill Road Intersection Overall Layout Plan			A			B						C			D	D	E	E
C861	Rosewood-Warrill Road Intersection Layout Plan Sheet 1 of 2												A			D	D	E	E
C862	Rosewood-Warrill Road Intersection Layout Plan Sheet 2 of 2												A			D	D	E	E
C863	Rosewood-Warrill Road Sections												A			B	B	C	C
C864	Rosewood-Warrill Road Longitudinal Sections			A			B						C			D	D	E	E
C865	Rosewood-Warrill Road Cross Sections Sheet 1 of 3			A			B						C			D	D	E	E
C866	Rosewood-Warrill Road Cross Sections Sheet 2 of 3			A			B						C			D	D	E	E
C867	Rosewood-Warrill Road Cross Sections Sheet 3 of 3			A			B						C			D	D	E	E
C868	Christensen Road Longitudinal Sections			A			B						A			D	D	E	E
C869	Christensen Road Cross Sections Sheet			A			B						A			B	B	C	C
C870	Rosewood-Warrill Road Intersection Signage and Linemarking Plan Sheet 1 of 2			A			B						C			D	D	E	E
C871	Rosewood-Warrill Road Intersection Signage and Linemarking Plan Sheet 2 of 2			A			B						C			D	D	E	E
C875	Rosewood-Warrill Road Pavement Layout Plan Sheet 1 of 2												A			B	B	C	C
C876	Rosewood-Warrill Road Pavement Layout Plan Sheet 2 of 2												A			B	B	C	C
C880	Rosewood-Warrill Road Catchment Layout Plan																	A	A
C890	Rosewood-Warrill Road Intersection Site Line Plan												B			C	C	D	D
C891	Rosewood-Warrill Road Stormwater Layout Plan Sheet 1 of 2												A			B	B	C	C
C892	Rosewood-Warrill Road Stormwater Layout Plan Sheet 2 of 2												A			B	B	C	C
C895	Rosewood-Warrill Road Stormwater Culvert Sections Sheet 1 of 2												C			D	D	E	E
C896	Rosewood-Warrill Road Stormwater Culvert Sections Sheet 2 of 2												C			D	D	E	E
C897	Rosewood-Warrill Road Stormwater Longitudinal Sections												A			B	B	C	C
C898	Rosewood-Warrill Road Stormwater Calculations Sheet												A			B	B	C	C
C899	Rosewood-Warrill Road Stormwater Details															A	A	B	B
Electronic Files																			
Reports																			

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13th August 2025

Department Transport & Main Roads
South Coast Region,
Corridor and Land Management Team

Email: SouthCoast@tmr.qld.gov.au

Attention Mr Ken Jensen

Dear Ken

Re: ROSEWOOD WARRIL VIEW ROAD – CHRISTENSEN ROAD INTERSECTION UPGRADE WORKS
COUNCIL DA REF MCU 24/033
MT WALKER QUARRY COLEYVILLE HAULAGE ROAD
REF TMR24-042833

We are pleased to provide this submission is in response to your Request For Further Information TMR24-042833 dated 7th May 2025 Pthe contents of which are reproduced below in *italics* followed by our responses in standard text.

Notwithstanding Condition 1 above, the following design items are required to be addressed, and confirmed by providing technical justification/s and/or via provision of amended design plans:

Crossfall transition

- *Based on the cross sections and contours included on the layout plans, there appears to be a virtually instantaneous change in crossfall for southbound traffic at the northern end of the project, from -ve 3% crossfall at around CH 390m to +ve 3% (superelevation) at CH 380m. In accordance with Section 7.7 of AGRD Part 3, the rate of rotation should desirably not exceed 2.5% per second of travel. With reference to Table 7.11, a length of 73m is required at 110km/hr design speed to rotate the pavement from -ve 3% to +ve 3%. The transition to superelevation needs to be amended to comply with this requirement.*

- *Similarly, the change in crossfall for southbound traffic at the southern end of the project transitions from +ve 3% at CH60 to +ve 0.4% at CH40, resulting in a rate of rotation of 2.6% in 20m, which equates to around 3.97% per second of travel for a 110km/hr design speed. The transition from superelevation back to normal crossfall needs to be amended to comply with rate of rotation requirements.*

  Response: Both transitions have been reworked on the design drawings C861_E, C868_E and C863_E using the adopted transition lengths shown in the table below.

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Transition	Design Speed	Transition Length
Northern	110km/hr	80 m
Southern	110km/hr	80 m

Shoulder Width

- *As per Table 4.2.6(b) of TMR Supplement to AGRD Part 3, a traffic lane / shoulder width combination of 3.5m / 1.0m is required (based on AADT between 400 and 1,000, including quarry traffic). The current design includes 0.5m only sealed shoulders. Can the minimum shoulder width be increased to 1.0m to satisfy the above requirement? Otherwise, an EDD / DE Report will be required to justify the provision of shoulder widths less than the NDD requirement.*

  Response: The Rosewood Warrill View Road traffic lane / shoulder width has been upgraded to 3.5 m / 1.0m to meet the above requirement as shown on drawings CC860_E to C876_E with the exception of the North bound lane along the length of the bus bay at Chainage 280 m.

  The space is restricted between the bus bay and the road / property boundary to fit the proposed headwall and outlet Rip Rap for the proposed culvert 802 so a 0.5 m shoulder has been retained across the rear of the bus bay. Given that this the separation between the traffic lane is 3.5 m there is no need for a 1 .0m shoulder here or indeed a eeD/DE Report for this item.

Pavement Design

- *Pavement Type 4 (bus stop) is shown to be 110mm of Type 2.1 over 140mm of min CBR 15% material (total thickness 250mm) for a design loading of 3 x 10E4 ESA and subgrade CBR of 4%. With reference to Figure 12.2 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 300mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a Type 2.1 thickness of 140mm above the CBR 15% material. The Type 4 pavement design for the bus stops needs to be amended.*

  Response: The pavement design has been amended as shown on Drg C875C and C876C and as outlined in the Preliminary Pavement Design Report provided with this submission.

- *Pavement Type 3 includes a bottom layer (140mm) of Type 2.3 material. With reference to Figure 8.4 of Austroads Guide to Pavement Technology Part 2, a minimum total thickness of 400mm (+ 20mm construction tolerance as per TMR Supplement) is required, with a thickness of 180mm above CBR 15% material. The Type 3 pavement design could be amended to incorporate CBR 15% material for the bottom layer (increased in depth by 20mm to include construction tolerance) in place of the Type 2.3.*

  Response: The pavement design has been amended as shown on Drg C875C and C876C and as outlined in the Preliminary Pavement Design Report provided with this submission.

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Note - Calculation / estimation of the design traffic loadings for the 4 pavement types needs to be provided within the design development report (refer below) for TMR review. All assumptions used (for example, ESA per HV) need to be documented.

Response: Refer to the Preliminary Pavement Design Report submitted with this response.

Drainage

Is rock lining of the longitudinal drainage channels required for scour protection purposes due to high velocities? If not, it is recommended that ordinary grassed lined table / swale drains be provided along the sides of the road to provide consistency for future vegetation maintenance in the area.

Response: The flow velocities have been reviewed and the extent of rock lining reduced where possible.

Kerb and Channel

From the Christensen Rd cross sections, it appears that a kerb and channel is to be installed on the southern side of the road from approx. CH120 (Christensen Rd) through to around CH125 (Rosewood Warrill View Rd). No details about the type of kerb and channel is provided, including any backfill details at the top of the embankment where it is adjacent to Rosewood Warrill View Rd (it is expected that detail of the kerb profile and backfill would have been shown on the cross section at CH140). Details of the kerb and channel type and details about backfill to the kerb at the top of the embankment adjacent to Rosewood Warrill View Rd need to be provided.

Response: The intension was for the Kerb and channel to only extend sufficient distance to discharge into to the rock lined swale at around Ch 15 short of Ch 140m. on Rosewood Warrill View Road. The Kerb and Channel type is now noted on drawings C861_E and C869_C.

Pavement Markings and signage

- *Drawings C870 & C871should include reference to REGPs and RRPMs being installed in accordance with requirements of MUTCD.*

  Response: RRPMs are shown on drawings C870_E to C871_E.

- *An edge line is currently not indicated to be installed for the extent of the northbound BAR treatment (between CH50 and CH250). The edge line should be continued through the intersection at 3.5m offset form centre line as per normal.*

  Response: EL line has been added on drawings C870_E to C871_E.

- *As per MUTCD requirements, a pavement arrow (straight through / right turn) is not required in the northbound lane at the intersection as all movements are permitted.*

  Response: Pavement arrow has been removed on drawing C870_E.

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- *A sign combination (W5-22A/W1-3 with supplementary plate) is shown to be installed at approx. CH45, too close to the existing northbound 'Christensen Rd' sign. This sign should be retained at its current location (CH0).*

  Response: Noted This has been changed on drawing C870_E.

- *The existing 'Christensen Rd' sign at approx. CH300 is shown to be relocated, however its new location is not indicated.*

  Response: Only the original location is shown on the Demolition Plan drawing C820_C. The note on this drawing has been amended to refer to Drawing C870 for the relocated position.

- *A new 80km/hr speed limit is indicated to be implemented on Christensen Rd (currently 100km/hr as per general rural speed limit). As Rosewood Warrill View Rd has a speed limit of 100km/hr, additional 100km/hr speed signs will be required either side of the intersection (suggest opposite the curve warning / advisory speed signs) to indicate the change in limit when exiting Christensen Rd.*

  Response: Noted This has been changed on drawings C870_E and C871_E.

- *Two new 'Mt Walker Quarries Qld' signs are shown to be installed at approx. CH290 and CH410, however no details are provided. Any service / direction signs which are not compliant with standard MUTCD and/or not directly related to normal intersection signage are subject to separate approval processes and will not form part of the Section 33 approval and should therefore be removed from the drawings.*

  Response: The proposed Quarry related signs have been amended to standard directional signage in compliance with MUTCD as shown on C870_E and C871_E.

Design Report

Previously an EDD / DE Report was requested addressing the sight distance deficiency and proposed mitigation (extension of BAR) identified at the Development Application stage, which has not been received. It is noted that this project would generally fall into Road Design Class C category (as per TMR Supplement to AGRD Part 1), which would not require existing deficiencies against numerous NDD standards to be rectified, however they should be identified and noted which would be included within the Design Development Report.

As a minimum, it is requested that a Design Development Report (which includes the above sight distance matter and designed mitigation) be submitted. Please refer to the TMR template "Design Development Report (Small Projects)" available under the Road Planning and Design Manual tab on the department's webpage www.tmr.qld.gov.au.

Response: The Sight distance for cars using the intersection has been reviewed and the intersection has been found to comply with Table 3.2 Austroads Guide to Road Design part 4A as shown in the table below and on Drg C880_A.

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Sight Line	Austroads Min. Sight Distance (m)	Design Sight Distance (km/hr)	Design Sight Distance (m)
Left Hand	285	110	>285 m Refer Drg C880
Right Hand	285	110	>285 m Refer Drg C880

The BAR extension identified in the Development Application stage has been retained such that the intersection is now conservative compared to the minimum Austroads requirements.

Revised Civil Works Drawings and Preliminary Pavement Design Report will be provided as summarised on the Transmittal No 017 prepared by Nigel Fletcher & Associates Pty Ltd. Please provide access to your departments One Drive account so that we can upload these docuemnts.

Currently we are expecting the site survey for the remaining works required on the Rosewood Warrill View Road and expect to be able to submit these within the next few weeks. Could you please confirm your acceptance of this design and provide a Conditional Approval in order to progress the Section 33 application of the intersection works.

We trust that this is satisfactory, should you require any additional information please do not hesitate to contact the undersigned on N/R

Yours faithfully

N/R

Nigel Fletcher & Associates

N/R [redacted]

Director – Principal Engineer

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13th August 2025

Department Transport & Main Roads
South Coast Region,
Corridor and Land Management Team

Email: SouthCoast@tmr.qld.gov.au

Attention Mr Ken Jensen

Dear Ken

Re: ROSEWOOD WARRIL VIEW ROAD – CHRISTENSEN ROAD INTERSECTION UPGRADE WORKS
PRELIMINARY PAVEMENT DESIGN REPORT
COUNCIL DA REF MCU 24/033
MT WALKER QUARRY COLEYVILLE HAULAGE ROAD
REF TMR24-042833

Further to your request for further information this Preliminary Pavement Design Report Is provided to support the amended Design Documents for the Rosewood Warrill View Road and Christensen Road Intersection Upgrade as part of the Mt Walker Quarry Haul Route in approval TMR24-042833.

1. Projected Design ESA

The Design Traffic Conditions have been developed for four pavement Types as shown on Drawings C875_C and C876_C as follows:

Pavement Type 1 - Rosewood Warrill View Road North of Christensen Road

Based on the following sources:

Rosewood Warrill View Road Design ESA Attachment C
Estimated Existing Traffic movements on Christensen Road included in Attachment C
Mt Walker Quarry Traffic Projections Refer Attachment B

Pavement Type 2 - Christensen Road from Rosewood Warrill View Road to the Quarry entrance;

Based on the following sources:

Estimated Existing Traffic movements on Christensen Road included in Attachment C
Mt Walker Quarry Traffic Projections Refer Attachment B

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Pavement Type 3 - Rosewood Warrill View Road South of Christensen Road

Based on the following sources:

Rosewood Warrill View Road Design ESA - Attachment C

Pavement Type 4 - Bus stops on Rosewood Warrill View Road at Ch 100 and Ch280.

Estimated from guidance in Section 12 AGPT02 based the bus bays being used by a rural school bus pick up and drop off service, as advised by council officers.

Rosewood Warrill View Road Design ESA

The AADT figures for Rosevill View Road North and South of the Christensen Road intersection have been based on the AADT for Queensland State Controlled Roads 2012 to 2022 data provided by TMR for WILM site ID 11570 located on Rosewood Warrill View Road, 1.15km West of Old Rosevale Road which is approximately 9 km South of the Christensen Road intersection. This Station would appear well located to provide the AADT data for Rosewood Warrill View Road at the intersection with Christensen Road.

Figure 1.1 Locality Map TMR - Mount Walker

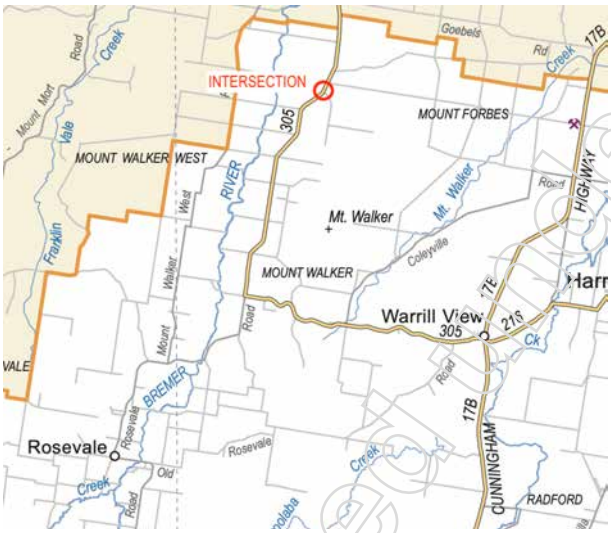

Table 1.1 summarises the 2022 AADT data at this location and % HV adopted for Rosewood Warrill View Road.

Table 1.1 WIM Data Rosewood Warrill View Road (ID 11570)

WIM Location	AADT	%HV	DF
Rosewood Warrill View Road No. 305 - 1.15 km West of Old Rosevale Road	269	16.71	0.5

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The 20 year Design ESA on each lane of the Rosewood Warrill View Road is calculated as 3.63+E05, refer Attachment C, adopting 2% Growth.

Christensen Road from Rosewood Warrill View Road to the Quarry Entrance

The proposed traffic on Christensen Road consists of the existing traffic use and the proposed operation and construction Traffic associated with the new quarry. The Quarry traffic is determined by the amount of laden trucks leaving the quarry on Christensen Road.

Attachment B provides the 20 year projected quarry tonnage and estimated truck movements developed by Mt Walker Quarry for their operations. Projected quarry tonnage movements estimate provided is based on the use of three truck types, being:

B-Double
Rigid Truck
Semitrailer

Summary calculations for the Projected 20 year Design ESA and ESA/HV are provided in Attachment C based on Austroads Guide to Pavement Design 02 (AGPD02).

Table 1.2 summarises the Design ESA figures adopted for the above road pavements.

Table 1.2 Pavement Type Design ESAs

	Existing AADT WIM data Rosevale Rd	Estimated HV Christensen Road	Projected Quarry Traffic Christensen Road+	Bus Traffic Rosewood Warrill View Road	Design ESA
Pavement Type 1 - Rosewood Warrill View Road North of Christensen Road	3.63+E05	Included Refer Attachment	6.88+E06+	-	7.24+E06
Pavement Type 2 - Christensen Road from Rosewood Warrill View Road to the Quarry entrance;		Included Refer Attachment	6.88+E06+	-	6.88+E06
Pavement Type 3 - Rosewood Warrill View Road South of Christensen Road	3.63+E05	-	-	-	3.63+E05
Pavement Type 4 - Bus stops on Rosewood Warrill View Road at Ch 100 and Ch280	-	-	-	3.0+E04	3.0+E04

+ Projected Mt Walker Quarry Traffic Christensen Road ESA/HV = 9.1

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2. Pavement Subgrade

The proposed Pavement design is based preliminary testing carried out along the proposed Christensen Road alignment with a recommended design CBR of 4%. The Geotechnical investigations and Testing will be completed when the pavement box is excavated and a revised Pavement Design Report will be issued for approval prior to completing the box trim of the relevant areas. Refer to the Geotehcnical Investigation report in Attachment A. All preliminary pavement design structures are based on a design subgrade CBR of 4%.

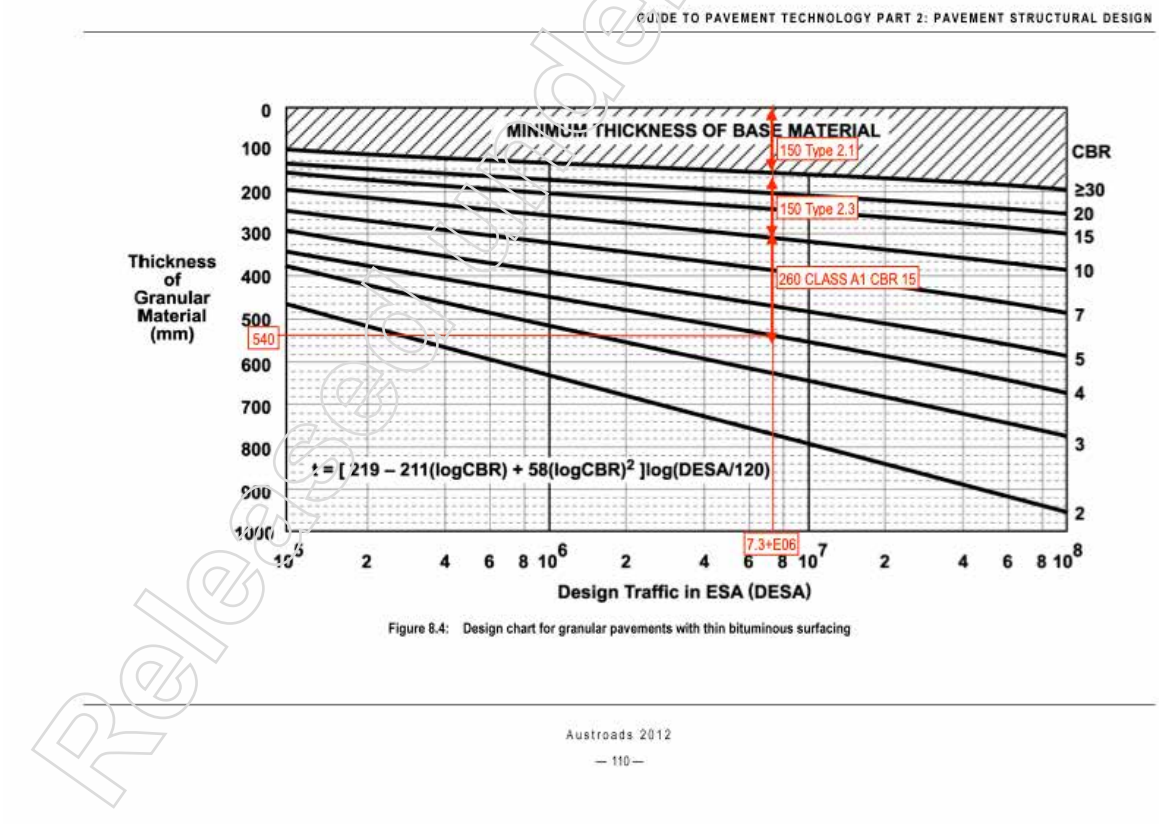
The depth of the existing road pavement on Rosewood Warrill View road is not known at this stage and the final treatment of the existing lanes, BAR and CHR treatment on this road and Christensen Road will be assessed when a full geotechnical investigation is completed to TMR standard requirements including suitably space CBR sampling and testing on both alignments once the Contactor has access to the site.

3. Pavement Designs

3.1 Rosewood Warrill View Road North of Christensen Road- Pavement Type 1

The adopted Design ESA for this section of road is 7.3+E06

The minimum Pavement Type 1 Thickness is 540 mm excluding the surface layer (Table 8.4 AGPD02 below) plus 20 mm Construction tolerance to meet TMR Supplement requirements resulting in a minimum pavement thickness of 560 mm.



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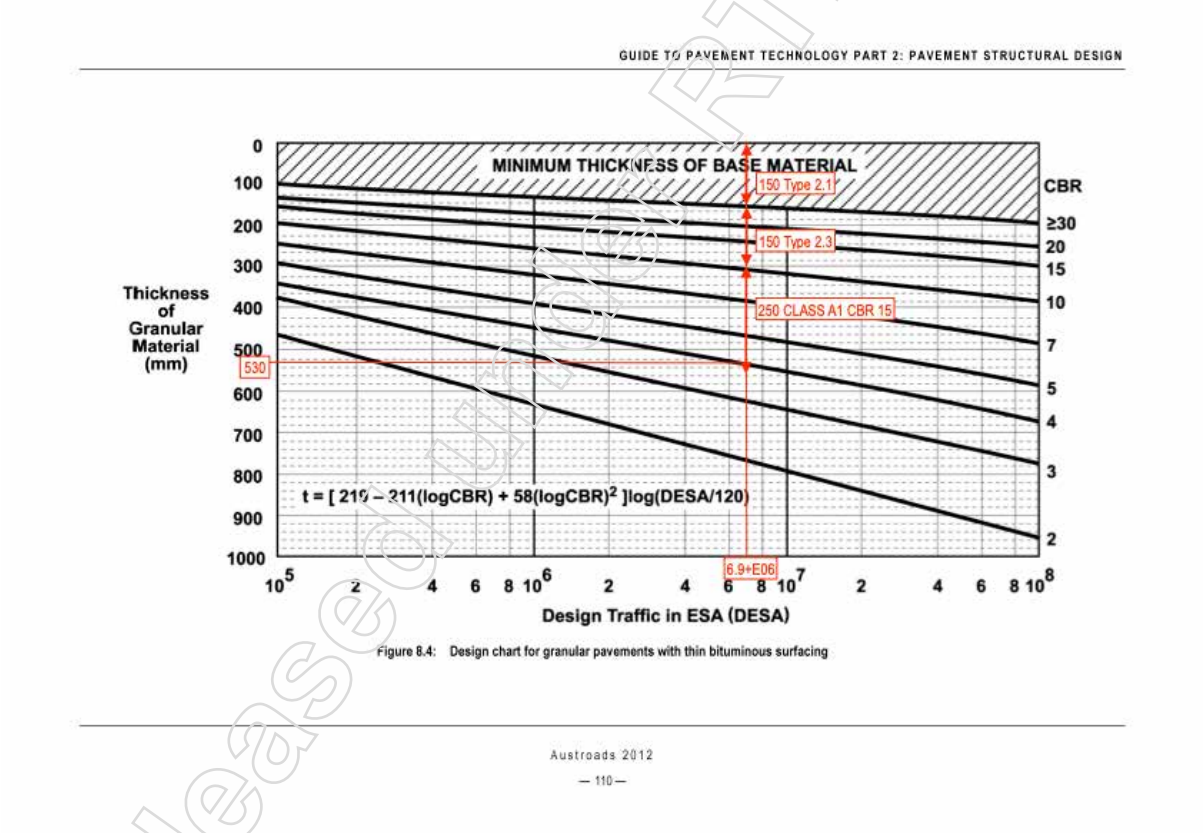
The Preliminary Pavement Type 1 Structure is therefore proposed as follows:

150 mm Type 2.1 on
150 mm Type 2.3 on
260 mm Class A1 Embankment Material (two layers) on
an assumed 4% CBR Subgrade
Total Preliminary pavement Type 1 – 560 mm

3.2 Christensen Road from Rosewood Warrill View Road to Chainage 80 - Pavement Type 2

The adopted Design ESA for this section of road is 6.9+E06

The minimum Pavement Type 2 thickness is 550 mm excluding the surface layer (Table 8.4 AGPD02 above) plus 20 mm Construction tolerance to meet TMR Supplement requirements results in a minimum pavement thickness of 570 mm.



The Preliminary Pavement Structure Type 2 is therefore proposed as follows:

150 mm Type 2.1 on
150 mm Type 2.3 on
250 mm Class A1 Embankment Material CBR 15 (two layers) on
an assumed 4% CBR Subgrade
Total Preliminary Pavement Type 2 – 550 mm

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3.3 Rosewood Warrill View Road South of Christensen Road- Pavement Type 3

All Heavy Vehicle traffic associated with the quarry are required to follow a nominated haul road on Rosewood Warrill View Road north of the Christensen Road intersection. The traffic volumes for Rosewood Warrill View Road south of the Christensen Road have therefore been based on the twenty year traffic flows projections defined in Table 1.2 above and calculations in Attachment C. This currently is a conservative estimate of the Design ESA for the proposed the BAR treatment on the southern approach to the intersection.

The adopted Design ESA for this section of road is 3.63E+05.

The minimum Pavement Type 3 thickness is 400 mm excluding the surface layer (Table 8.4 AGPD02 above) plus 20 mm Construction tolerance to meet TMR Supplement requirements results in a minimum pavement thickness of 420 mm.

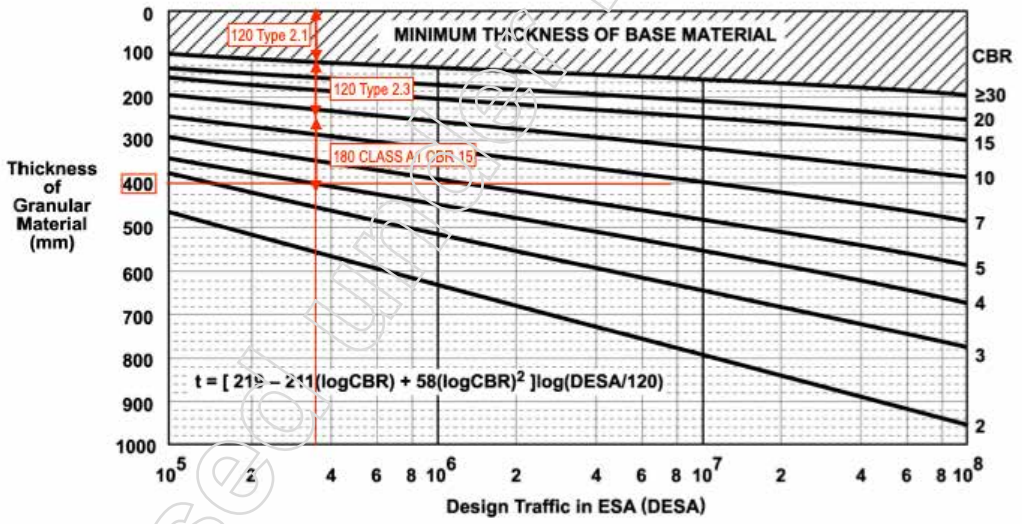

Figure 8.4: Design chart for granular pavements with thin bituminous surfacing

The Preliminary Pavement Structure Type 3 is proposed as follows (Table 8.4 AGPT02 above):
120 mm Type 2.1 on
120 mm Type 2.3 on
180 mm Class A1 Embankment Material Min compactable thickness) on
an assumed 4% CBR Subgrade.
Total Preliminary Pavement Type 2 – 440 m

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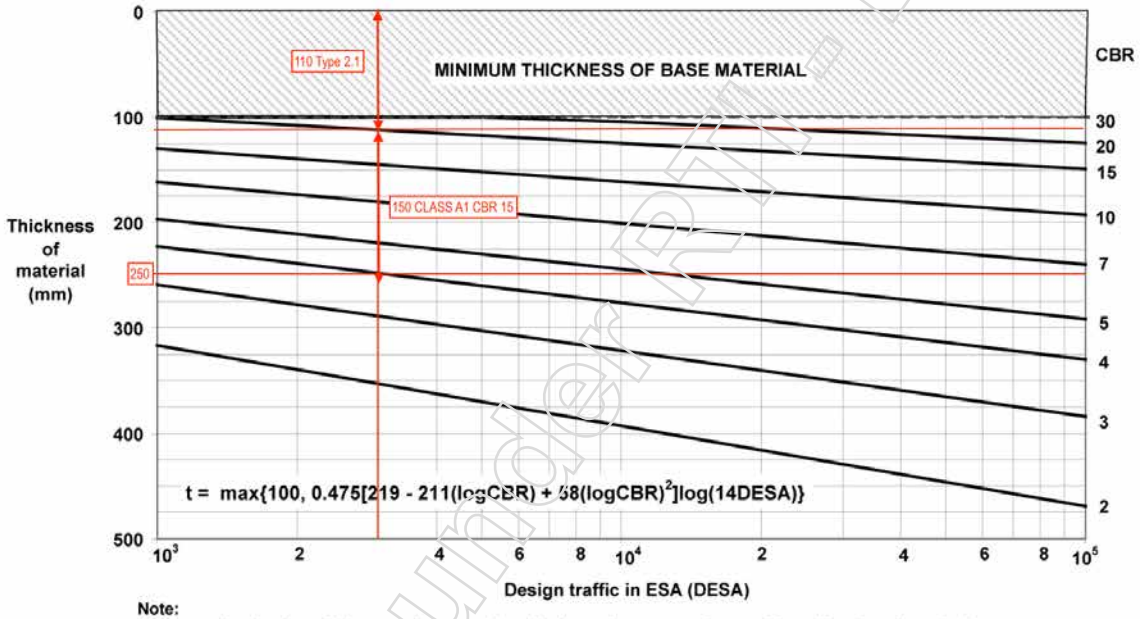
3.4 Bus Bays on Rosewood Warrill View Road - Pavement Type 4

Currently northbound buses pull over on the verge (just North of the intersection) and southbound buses use the throat of the intersection to pick up and drop off passengers. The proposed deign proposes dedicated bus bays to improve the safety of the future bus operations.

The Bus bay Design ESA has been based on 3+E04.

The minimum Pavement Type 4 thickness is 250 mm excluding the surface layer (Table 12.2 AGPD02 below) plus 20 mm Construction tolerance to meet TMR Supplement requirements results in a minimum pavement thickness of 270 mm.

Figure 12.2: Example design chart for lightly-trafficked granular pavements with thin bituminous surfacings



Note:
1. Appropriate local conditions, environmental and drainage issues must be considered in using these design curves.
2. Thin asphalt surfacings may be included in total granular thickness. However, the minimum thickness of the granular base is 100 mm.

The Preliminary Pavement Structure is proposed as follows (Table 12.2 AGPT02 above):

120 mm Type 2.1 on
150 mm Class A1 Embankment Material on
an assumed 4% CBR Subgrade.
Total Preliminary Pavement Type 4 – 270 mm

4. Proposed Road Surfacing

It is proposed to adopt a 7/14 Two Coat Spray Seal finish with primer on the Rosewood Warrill View Road and Christensen Road pavement as noted on the drawings. Full design of this seal will be provided by the contractor's supplier prior to the pre-seal inspection.

Drawings C875_C and C876_C show the final pavement design proposed for the intersection works.

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We trust that this is satisfactory, should you require any additional information please do not hesitate to contact the undersigned on N/R

Yours faithfully

N/R

Nigel Fletcher & Associates

N/R

Director – Principal Engineer

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Attachment A – Report on Geotechnical Assessment, Pacific Geotech PG-7663 July 2023

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Consulting Geotechnical Engineers

GEOTECHNICAL INVESTIGATION: Proposed Road Upgrade

Christensen Road

Mt Walker

GCE Contractors Pty Ltd

July 2023

PG-7663

E: info@pacgeo.com.au
www.pacgeo.com.au ABN: 62 615 248 952

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Consulting Geotechnical Engineers

Ref: PG-7663, 2023-07-13, GR VER 1
Author: N/R

13th July, 2023

GCE Contractors Pty Ltd
Email: N/R @gcecontractors.com.au

ATTN: N/R

Dear Sir,

GEOTECHNICAL INVESTIGATION – PROPOSED ROAD UPGRADE
CHRISTENSEN ROAD, MT WALKER

1.0 INTRODUCTION

This report presents the results of the geotechnical investigation carried out by Pacific Geotech at the above site, to assess the subsurface characteristics within 18 test pits along the proposed road alignment.

2.0 METHODOLOGY

Subsurface conditions were investigated by excavating and sampling 18 testpits, to depths in the order of 1m, using a small excavator supplied by the client fitted with a small toothed bucket.

The subsurface profile encountered in the test pits typically comprised a thin veneer of topsoil over high plastic silty/sandy clay to the test pit termination depth.

Samples collected from the test pits were sent to the Pacific Geotech laboratory and the following tests were undertaken:

- CBR
- Atterberg Limits
- Particle Size Distribution
- Emerson Class

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A site plan indicating the test locations and photographs of the site at the time of the investigation are appended to the report.

3.0 SITE DESCRIPTION

The test pits were excavated adjacent to the existing Christensen Road and in areas where the new alignment to the proposed quarry.

The typical site topography was slightly undulating with several low lying areas and rock outcrops (where the proposed quarry will be located).

The proposed alignment of the road is shown in Figure 1 and regional geology in Figure 2.

Figure 1 Proposed Road Alignment

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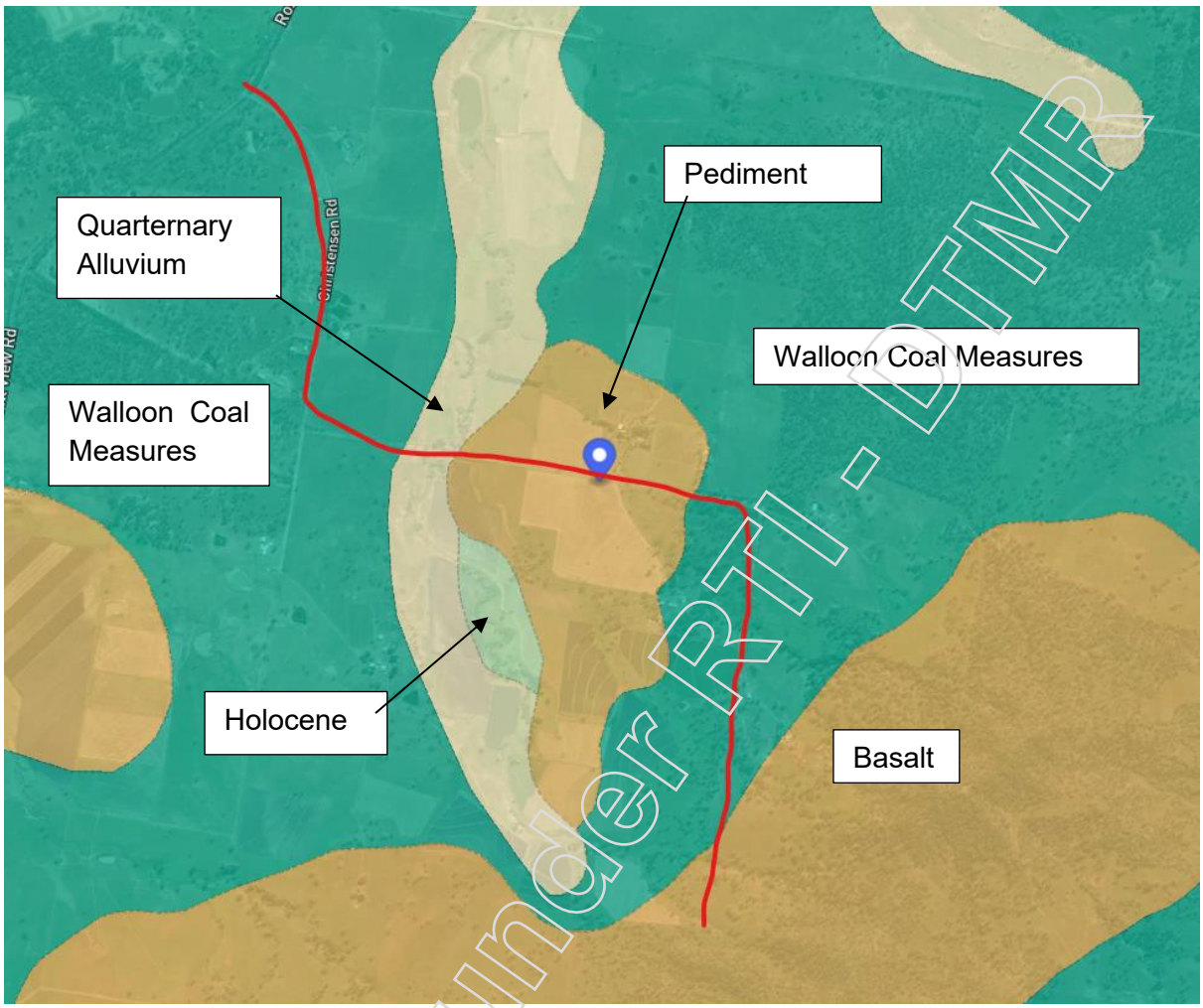
Figure 2 Regional Geology



4.0 LABORATORY TEST RESULTS

A summary of the laboratory test results is shown in the following tables.

TABLE 1 SUMMARY OF EMERSON CLASS RESULTS

Location	Depth (m)	Electrical Conductivity (µS/cm)	pH	Emerson Class
TP7	1.1	94	7.8	8
TP8	1.0	48	7.5	8
TP9	1.2	410	8.0	8
TP10	1.1	53	8.1	8

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TABLE 2 SUMMARY OF CBR TEST RESULTS

Location	Depth (m)	MDD (t/m³)	OMC (%)	CBR %
TP7	1.1	1.68	19.3	4.0
TP8	1.0	1.38	31.8	3.0
TP9	1.2	1.45	26.4	2.5
TP10	1.1	1.35	27.0	3.5

TABLE 3 SUMMARY OF ATTERBERG LIMITS TEST RESULTS

Location	Depth (m)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	Linear Shrinkage (%)
TP10	1.1	64	28	36	19.0
TP9	1.2	76	26	49	24.0
TP8	1.0	67	26	41	18.5
TP7	1.1	50	18	31	17.0

TABLE 4 SUMMARY OF PARTICLE SIZE DISTRIBUTION TEST RESULTS

Location	Depth (m)	Percent Passing (%)								
		9.5	4.75	2.36	1.18	0.600	0.425	0.300	0.150	0.075
TP10	1.1	100	100	99	98	98	97	96	94	91
TP8	1.0	100	100	100	100	100	99	98	93	88
TP7	1.1	90	85	82	79	77	74	71	61	55

5.0 LIMITATIONS

We have prepared this report for the Proposed Road Upgrade at Christensen Road, Mt Walker. The report is provided for the exclusive use of GCE Contractors Pty Ltd, for this project only and for the purposes outlined in the report. It should not be used by, or relied upon, for other projects on the same or different sites or by a third party. In preparing this report, we have relied upon information provided by the client or their agents.

The results are indicative of the subsurface conditions on site only at the specific testing locations. Subsurface conditions can change between test locations and the design and construction should take the spacing of the testing and testing methods adopted and the potential for variation between the test locations.

This is not to reduce the level of responsibility accepted by Pacific Geotech, but rather to ensure that the parties who may rely on the information contained in this report are aware of the responsibilities they assume in doing so.

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It is recommended that Pacific Geotech be engaged to provide advice and ensure the development is undertaken in accordance with the assumptions made in writing this report.

No knowledge of any additional earthworks is available at the time of reporting. Any earthworks undertaken onsite should be undertaken in accordance with the requirements and recommendations of AS 3798-2007 'Guidelines on Earthworks for Commercial & Residential Developments' and AS 2870-2011 'Residential Slabs & Footings' and are undertaken in a responsible manner.

Yours faithfully,

N/R [redacted]

For and on behalf of
PACIFIC GEOTECH PTY LTD

Attached Notes Relating to this Report
Site Photographs
Laboratory Test Certificates

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Notes Relating to this Report

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis.

Every care has been taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical conditions and contains recommendations or suggestions for design and construction. However, unexpected variations in ground conditions will occur. The potential for this will depend partly on testing, spacing and sampling frequency.

If variations are identified, Pacific Geotech would be pleased to assist with additional investigations or advice to resolve the matter.

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Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Description and Classification Methods

The description and classification of soils and rocks used in this report are based on AS 1726.

Soil types are described according to the predominating particle size and behaviour as set out in the attached Unified Soil Classification Table qualified by the percent of other particles present (e.g. sandy clay) as set out below:

Soil Classification	Particle Size
Clay	less than 0.002mm
Silty	0.002 to 0.06mm
Sand	0.06 to 2mm
Gravel	2 to 60mm

Non-cohesive soils are classified on the basis of relative density which can be correlated from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very Loose	less than 4
Loose	4 – 10
Medium Dense	10 – 30
Dense	30 – 50
Very Dense	greater than 50

Cohesive soils are classified on the basis of strength (consistency) and can be quantified by the Pocket Penetrometer test, Vane Shear test, laboratory testing or engineering examination. The strength terms are defined as follows:

Classification	Unconfined Compressive Strength kPa
Very Soft	less than 25
Soft	25 - 50
Firm	50 – 100
Stiff	100 – 200
Very Stiff	200 - 400
Hard	greater than 400
Friable	strength not attainable – soil crumbles

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc.

Planarity	
CU	Curved
DIS	Discontinuous
IR	Irregular
PR	Planar
ST	Stepped
UN	Undulose

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Roughness	
POL	Polished
RJ	Rough
S	Smooth
SL	Slickened
VR	Very Rough

Defects	Type
BP	Bedding Parting
CL	Cleavage
CO	Contact
CS	Crushed Seam
CZ	Crushed Zone
DB	Drilling Break
DK	Dyke
DL	Drill Lift
DZ	Decomposed Zone
FC	Fracture
FL	Foliation
FZ	Fracture Zone
HB	Handling Break
IS	Infilled Seam
JT	Joint
H	Schistosity
SI	Sill
SM	Seam
SS	Shear Seam
SZ	Shear Zone
VN	Vein
VO	Void

Sampling

Sampling is undertaken during the fieldwork to allow examination of the soil or rock and to allow laboratory testing to be undertaken.

Disturbed samples taken during drilling provide information on plasticity, grain size, colour, moisture content and minor constituents. Bulk samples are similar but of greater volume required for some test procedures such as CBR testing.

Undisturbed samples are taken by pushing a thin-walled sample tube, usually 50mm diameter (known as a U50), into the soil and collecting a sample of the soil contained in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling used are given on the attached logs.

Investigation Methods

Test Pits: These are typically undertaken with a backhoe or a tracked excavator, allowing examination of the insitu soils. Limitations of test pits are the problems associated with collapse of the pits, disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

Hand Auger Drilling: A borehole of typical diameter of between 50mm to 75mm advance manually operated equipment. Premature refusal of the hand augers can occur on a variety of materials such as fill, gravel, hard clays and collapse of the borehole (typically in non-cohesive soil).

Continuous Spiral flight Augers: The borehole is advanced using 65mm to 100mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. Augers of up to 300mm in diameter are used to recover larger volumes of sample. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights. Samples can be disturbed and layers may become mixed. Augering below the groundwater table can be less reliable than augering above the water table.

A Tungsten Carbide (TC) bit for auger drilling into rock can be used to indicate rock strength and continuity by variation in drilling resistance and from examination of recovered rock fragments but provides only an indication of the likely rock strength. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

Wash Boring: The borehole is advanced by a bit attached to the end of a hollow rod string, with water being pumped down the drill rods and returned up the annulus of the borehole, carrying the drill cuttings. Changes in stratification can be determined from the return, together with information from "feel" and rate of penetration.

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The borehole can be stabilised through the use of drilling mud as a circulating fluid. The term 'mud' encompasses a range of products ranging from bentonite to polymers such as Revert or Biogel.

Continuous Core Drilling: A continuous core sample is obtained using a diamond tipped core barrel. This technique provides a reliable (but relatively expensive) method of investigation. In rocks, an NMLC triple tube core barrel is used, which gives a core of about 50mm diameter. The length of core recovered is compared to the length drilled and any length not recovered is shown as CORE LOSS.

Standard Penetration Tests: Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils as a means of indicating density or strength and also of obtaining a disturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposed", Test 6.3.1.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63kg hammer, with a free fall of 760mm. The sample is driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense soils, hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of , say, 4, 6 and 7 blows, as
  N = 13
  4, 6, 7
- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as
  N > 30
  15, 30/40mm

Cone Penetrometer Testing (CPT): Cone Penetrometer Testing with or without pore pressure measurement (CPTu) is carried out using a Cone Penetrometer in general accordance with AS 1289 6.5.1, 1999.

In the tests, a 36mm diameter rod with a conical tip is pushed continuously into the soil, the reaction being provided by a hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the fractional resistance on a separate 135mm long sleeve, immediately behind the cone. Pore Pressure is recovered through a pore ring located either within, or more usually immediately behind the cone/tip.

As penetration occurs (at a rate of approximately 20mm per second) and data is recorded every 20mm of penetration, the results are presented graphically.

The information provided on the plot comprises:

- Cone resistance – expressed in mPa
- Sleeve friction – expressed in kPa
- Friction ratio – the ratio of sleeve friction to cone resistance expressed as a percentage.
- Pore pressure in kPa
- Tilt of probe (in degrees).

The ratios of the sleeve resistance to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1% to 2% are commonly encountered in sands and rising to 2% to as high as 8%, and higher in organic soils. Soil descriptions based on cone resistance and friction ratios are only inferred and must not be considered as exact.

Stratification can be inferred from the cone and friction traces and from experience and information from nearby boreholes, etc. Where shown, this information is presented for general guidance, but must be regarded as interpretive.

Dynamic Cone Penetrometers:

Dynamic Cone Penetrometer (DCP) tests are carried out by driving a 16mm diameter rod into the ground with a 9kg sliding hammer dropping 510mm and counting the blows for successive 100mm increments of penetration.

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Logs

The borehole or test pit logs are an interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of the boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than "straight line" variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.

Groundwater

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be flushed from the hole and drilling mud must be washed out of the hole or 'reverted' chemically if water observations are to be made.

More reliable measurements can be made by installing standpipes from which ongoing monitoring can be undertaken.

Fill

The present of fill materials can often be determined only by the inclusion of foreign objects (e.g. bricks, steel ,etc.) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult to reliably determine the extent of the fill.

Laboratory Testing

Laboratory testing is carried out in general accordance with Australian Standard 1289 'Methods of Testing Soil for Engineering Purposes'.

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, the company requests that it immediately be notified. Most problems are much more readily resolved when conditions are exposed than at some later stage.

Review of Design

Where major civil or structural developments are proposed or where only a limited investigation has been completed or where the geotechnical conditions/constraints are quite complex, it is prudent to have a design review.

Site Inspection

Pacific Geotech would be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related:

Requirements could range from:

i. a site visit to confirm that conditions exposed are no worse than those interpreted, to
ii. a visit to assist the contractor or other site personnel in identifying various soil/rock types such as appropriate footing or pier founding depths, or
iii. full time engineering present on site.

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Test Pit 1

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Test Pit 2

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Test Pit 5

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Test Pit 8

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Test Pit 9

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Test Pit 10

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Test Pit 11

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Test Pit 12

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Test Pit 16

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Test Pit 18

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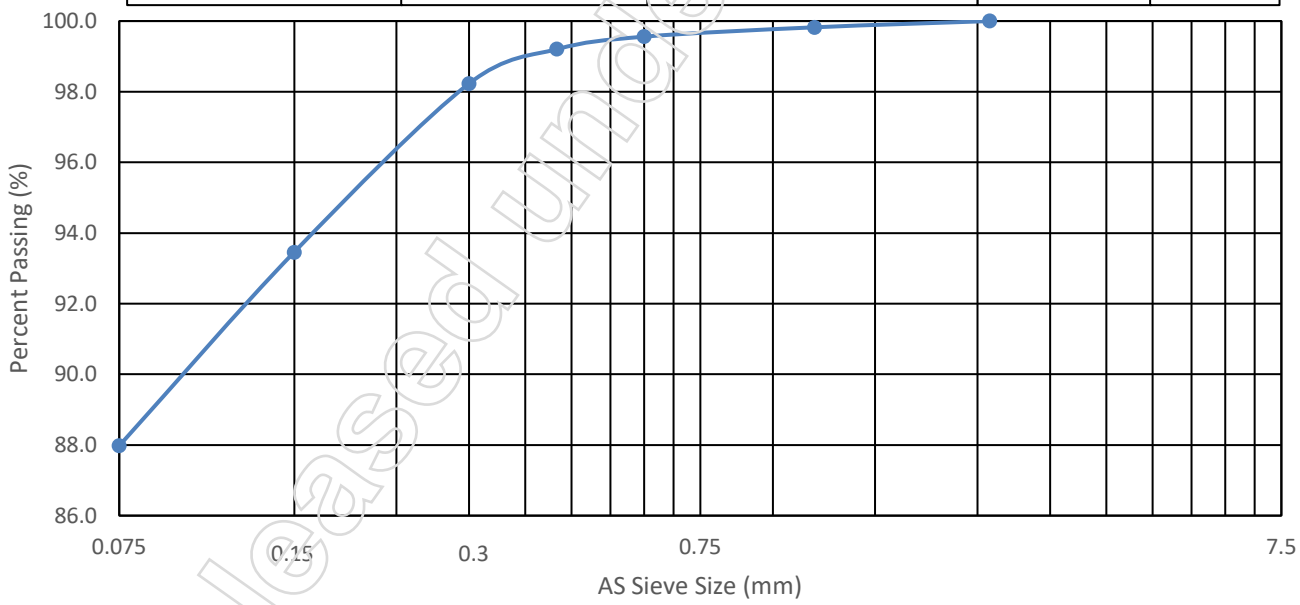
Particle Size Distribution Report

Client:	GCE Contractors	Project Number:	PG-7663
Client Address:	3 Jowett Street, Coomera Qld 4209	Report Number:	PG-7663-TP8-1.0-PSD
Project Address:	Christensen Road, Mt Walker	Report Date:	3/07/2023
Project Name:	Subgrade Assessment	Test Method:	AS1289.3.6.1

SAMPLE LOCATION:	**TP8, 1.0m**
SAMPLE NUMBER:	23-1353
SAMPLING METHOD:	SAMPLE AS SUPPLIED
DATE SAMPLED:	20.06.2023
DATE TESTED:	3/07/2023
MATERIAL TYPE:	**Silty Clay**

AS Sieve Size (mm):	Percent Passing (%):
2.36	100
1.18	100
0.600	100
0.425	99
0.300	98
0.150	93
0.075	88

SAND			GRAVEL	
FINE	MEDIUM	COARSE	FINE	MEDIUM



Pacific Geotech Pty Ltd

Gold Coast Laboratory

Approved Signatory

N/R

N/R Senior Geotechnician

Report Remarks: -

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Sampling test method is not covered by our scope of accreditation.

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ABN: 62 615 248 952

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ATTERBERG LIMITS INDEX REPORT

CLIENT:	GCE Contractors	PROJECT NUMBER:	PG-7663
CLIENT ADDRESS:	c/o 3 Jowett Street, Coomera Qld 4209	REPORT NUMBER:	PG-7663-TP9-1.2-ATT
PROJECT:	Subgrade Assessment	REPORT DATE:	3/07/2023
PROJECT ADDRESS:	Christensen Road, Mt Walker	TEST METHOD:	AS 1289.3.1.2, 3.2.1, 3.3.1, 3.4.1 & 2.1.1

SAMPLE LOCATION:	**TP9, 1.2m Bulk**
SAMPLE NUMBER:	23-1354
SAMPLING METHOD:	SAMPLE AS SUPPLIED
SAMPLED BY:	PACIFIC GEOTECH
DATE SAMPLED:	20.06.2023
DATE TESTED:	30.06.2023
SAMPLE HISTORY:	Oven Dried
PREPERATION METHOD:	Dry Sieved
MATERIAL TYPE:	**Silty Clay**

LIQUID LIMIT (%):	**76**
PLASTIC LIMIT (%):	**26**
PLASTICITY INDEX (%):	**49**
LINEAR SHRINKAGE (%):	**24.0**
MOULD LENGTH (mm):	127
CRACKING:	None
CRUMBLING OR CURLING:	Curling

bsi ISO 9001 Quality Management Systems CERTIFIED	**Pacific Geotech Pty Ltd** **Gold Coast Laboratory**	Approved Signatory N/R N/R - Senior Geotechnician

Report Remarks: -

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ABN: 62 615 248 952

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Consulting Geotechnical Engineers

Particle Size Distribution Sheet

CLIENT:	GCE Contractors	**PROJECT NUMBER:**	PG-7663
CLIENT ADDRESS:	3 Jowett Street, Coomera Qld 4209	**DATE SAMPLED**	20.06.2023
PROJECT NAME:	Subgrade Assessment	**TESTED BY:**	SB
PROJECT ADDRESS:	Christensen Road, Mt Walker	**DATE TESTED:**	3/07/2023
LOCATION:	TP9, 1.2m Bulk	**CHECKED BY:**	SB
SAMPLE NUMBER:	23-1354	**DATE CHECKED:**	3/07/2023

SAMPLE DESCRIPTION:	**Sandy Clay**
Test Method:	AS1289.3.6.1
Report Remarks:	

GRADING CONTAINER NUMBER:	2-09
MASS CONTAINER (g):	240.8
MASS CONTAINER & DRY SOIL (g):	404.9
MASS CONTAINER & DRY SOIL AFTER WASHING (g):	279.4
MASS SAMPLE (g):	164.1

EQUIPMENT USED		
RIFFLE BOX / S:	055 - Small	-
OVEN:	088 High Temp	
BALANCE/S:	021 (3.1kg)	-
SIEVE SET / WASH SIEVE:	Set 1 - 200mm	157
SIEVE SHAKER	168	

Sieve	Mass retained (g)	Mass retained (%)	Percent Passing (%)
2.36	8.8	5.4	**94.6**
1.18	0.8	0.5	**94.1**
0.600	0.7	0.4	**93.7**
0.425	1.0	0.6	**93.1**
0.300	3.4	2.1	**91.0**
0.150	14.3	8.7	**82.3**
0.075	9.1	5.5	**76.8**
PAN	0.1	0.1	**76.7**
FINES	125.9	76.7	
	TOTAL	**100.0**	

ER 001.1

Corrections Record

Cell Number	Old Value	New Value	Reason for Correction	Corrected By	Date

Released Under RTI - DNR
Released Under RTI

ATTERBERG LIMITS INDEX REPORT

CLIENT:	GCE Contractors	PROJECT NUMBER:	PG-7663
CLIENT ADDRESS:	c/o 3 Jowett Street, Coomera Qld 4209	REPORT NUMBER:	PG-7663-TP10-1.1-ATT
PROJECT:	Subgrade Assessment	REPORT DATE:	3/07/2023
PROJECT ADDRESS:	Christensen Road, Mt Walker	TEST METHOD:	AS 1289.3.1.2, 3.2.1, 3.3.1, 3.4.1 & 2.1.1

SAMPLE LOCATION:	**TP10, 1.1m Bulk**
SAMPLE NUMBER:	23-1355
SAMPLING METHOD:	SAMPLE AS SUPPLIED
SAMPLED BY:	PACIFIC GEOTECH
DATE SAMPLED:	20.06.2023
DATE TESTED:	30.06.2023
SAMPLE HISTORY:	Oven Dried
PREPERATION METHOD:	Dry Sieved
MATERIAL TYPE:	**Silty Clay**

LIQUID LIMIT (%):	**64**
PLASTIC LIMIT (%):	**28**
PLASTICITY INDEX (%):	**36**
LINEAR SHRINKAGE (%):	**19.0**
MOULD LENGTH (mm):	127
CRACKING:	None
CRUMBLING OR CURLING:	Curling

ISO 9001 Quality Management Systems CERTIFIED	**Pacific Geotech Pty Ltd** **Gold Coast Laboratory**	Approved Signatory N/R N/R - Senior Geotechnician

Report Remarks: -

ER 002.2

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www.pacgeo.com.au
ABN: 62 615 248 952

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Pacific Geotech
Consulting Geotechnical Engineers

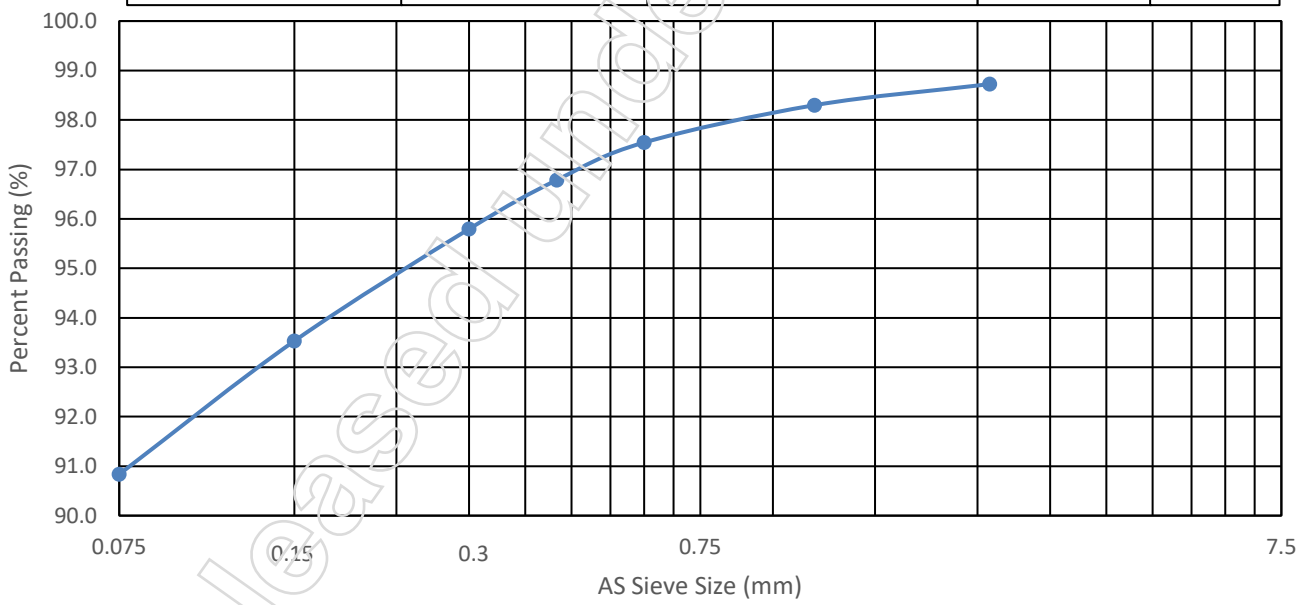
Particle Size Distribution Report

Client:	GCE Contractors	Project Number:	PG-7663
Client Address:	3 Jowett Street, Coomera Qld 4209	Report Number:	PG-7663-TP10-1.1-PSD
Project Address:	Christensen Road, Mt Walker	Report Date:	3/07/2023
Project Name:	Subgrade Assessment	Test Method:	AS1289.3.6.1

SAMPLE LOCATION:	**TP10, 1.1m Bulk**
SAMPLE NUMBER:	23-1355
SAMPLING METHOD:	SAMPLE AS SUPPLIED
DATE SAMPLED:	20.06.2023
DATE TESTED:	3/07/2023
MATERIAL TYPE:	**Silty Sand**

AS Sieve Size (mm):	**Percent Passing (%):**
2.36	99
1.18	98
0.600	98
0.425	97
0.300	96
0.150	94
0.075	91

SAND			GRAVEL	
FINE	MEDIUM	COARSE	FINE	MEDIUM



bsi ISO 9001 Quality Management Systems CERTIFIED	**Pacific Geotech Pty Ltd** **Gold Coast Laboratory**	Approved Signatory N/R N/R - Senior Geotechnician
Report Remarks: -		

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www.pacgeo.com.au
ABN: 62 615 248 952

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Attachment B – Projected Mt Walker Quarry Traffic

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Mt. Walker Christensen Road Estimated Trucks

Tandem	20%	0.20	12
Truck & Dog	50%	0.50	36
Semi End Tipper	30%	0.30	24

Day based on 5.5days per week for 52 weeks

		Trucks Per Annum			Trucks Per Day				
Year	Tons/Annum	Tandem	Truck & Dog	End Tipper	Tandem	Truck & Dog	End Tipper	Total/day	Total Tonnes/day
1	400,000	6,667	5,556	5,000	23	19	17	59	1,368
2	800,000	13,334	11,112	10,000	47	39	35	121	2,808
3	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
4	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
5	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
6	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
7	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
8	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
9	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
10	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
11	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
12	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
13	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
14	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
15	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
16	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
17	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
18	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
19	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
20	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
					1330	1102	988		
21	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
22	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
23	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
24	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
25	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
26	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
27	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
28	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
29	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
30	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
31	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
32	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
33	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
34	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
35	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
36	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
37	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
38	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
39	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
40	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
41	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
42	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
43	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
44	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
45	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
46	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
47	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
48	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
49	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176
50	1,200,000	20,000	16,667	15,000	70	58	52	180	4,176

RTI-Released

Attachment C – Design ESA Calculation Sheet

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

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Christensen Road Design ESA Calculation Sheet
20 YEAR EACH LANE

Austroads Vehicle Class	No of HVs	SAST	TAST	SADT	TADT	TRDT	QADT	Total HVAG	Average HVAG/HV	Total ESAs /week day	AVE.ESAS /HVAG	Remarks
AADT 20 years Totals		1	2		2	3						
Existing HVs	520	520			1040							Existing Trucks
Class 5 2 Axle Goupr Tandem	1330	1330	2660									Mine Traffic
Class 10 4 Axle Groups Truck and Dog	1102	1102	2204			6612						
Class 9 3 Axle Groups Semi Tipper	988	988	1976			2964						
Construction 15%												Construction Traffic
Class 8 Semi	513	513	2052									
Total	4453	4453	8892	0	1040	9576	0	23961	5.38			
		12.2										
Percentage	18.58%	18.58%	37.11%		4.34%	39.96%		100.00%				
Load Limit		58.8	107.8	88.2	156.8	196	196					
Std Load	AGPT02	53	89	80	135	182	226					
ESA/HVAG	(GML/SL)^4	1.51	2.15	1.48	1.82	1.35	0.67				1.697	
Total ESAs		6746.19	19138.79	0.00	1892.70	12880.21	0.00			40657.89		
											ESA's/HV	9.1

25.457318

Days / Year	AADT 20 yr	%HV/100 See Above	DF Data is one Way	N HVAG	LDF	CGF Included	NDT	
287	4453	1	1	5.38	1	1	6.88E+06	20 YEAR DESIGN

6.88E+06 Adopted Each Lane In and Out

Rosewood Warrill View Road North Bound Approach

Existing AADT WIM 1.5km West of Rosevale Road

Days / Year	AADT	%HV/100	DF	N HVAG	LDF	CGF	NDT	
365	269	0.167	0.5	1.00	1	44.23	3.63E+05	20 YEAR DESIGN

P 32 Data Based on 2012 WIM rec
R 2.00 % Growth

Rosewood Warrill View Road South Bound Approach 3.63E+05

Quarry traffic 98185 6.88E+06

Total North bound NDT North Of Intersection 7.24E+06

Bus Stops 3.00E+04

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Attachment D – Intersection Pavement Layout Plan Sheets 1 and 2 – Drgs C875_C and C876_C

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REFER KEY-IN DETAIL

LIMIT OF TMR INTERSECTION WORKS

ROSEWOOD-WARRILL

24
CC2345

ADJOINS C876

APPROXIMATE LOCATION OF DIA 375mm RCP CULVERTS TO BE EXTENDED.

APPROXIMATE LOCATION OF DIA 600mm RCP CULVERTS TO BE REPLACED.

PROPOSED DIA 450mm RCP CULVERT.

PROPOSED DIA 450mm RCP CULVERT.

PROPOSED DIA 375mm RCP CULVERT.

CHRISTENSEN ROAD

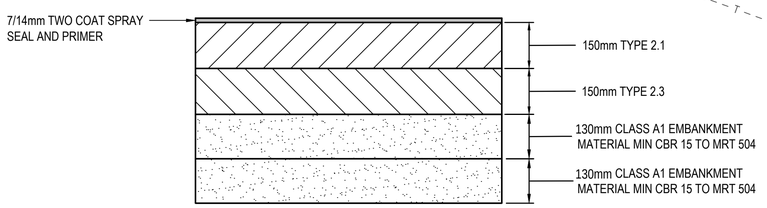
2
SP187797

1
SP187797

LIMIT OF TMR INTERSECTION WORKS

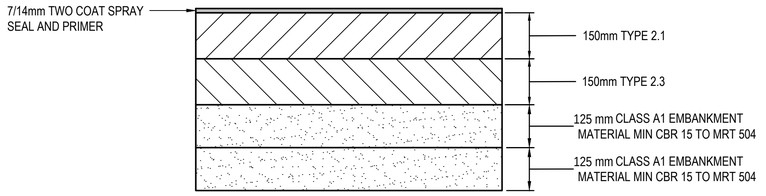
PRELIMINARY PAVEMENT PROFILES

FINAL PAVEMENT DESIGN SUBJECT TO 5 DAY SOAKED CBR TESTS AND GEOTECHNICAL INVESTIGATION REPORT OF THE COMPACTED SUBGRADE SPACING OF TEST LOCATIONS TO BE APPROVED BY DTMR.



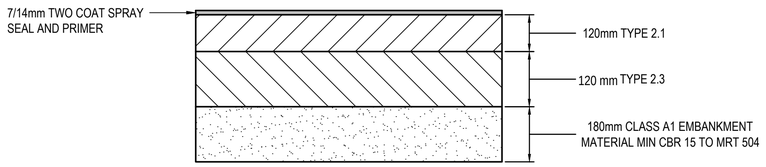
PAVEMENT TYPE 1

$7.3x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10



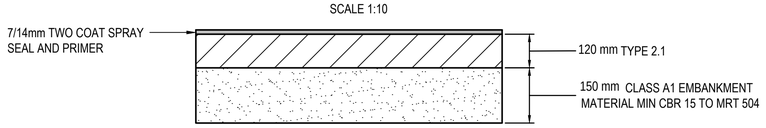
PAVEMENT TYPE 2

$6.9x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10



PAVEMENT TYPE 3

$3.63x10^5$ ESA, ASSUMED CBR 4%.
SCALE 1:10



PAVEMENT TYPE 4 (BUS STOP)

$3.0x10^4$ ESA, ASSUMED CBR 4%.
SCALE 1:10

TMR REVIEW

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	11.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN.: 621 139 843
M. N/R
E. N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

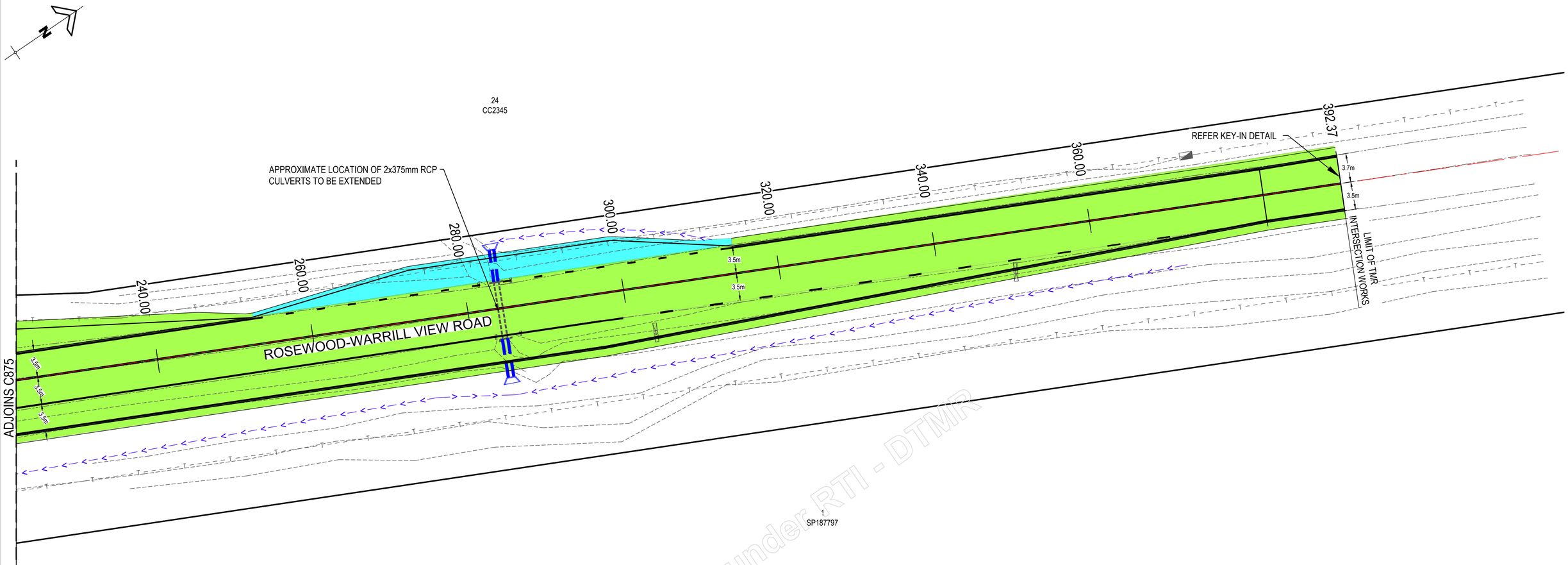
DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 1 OF 2

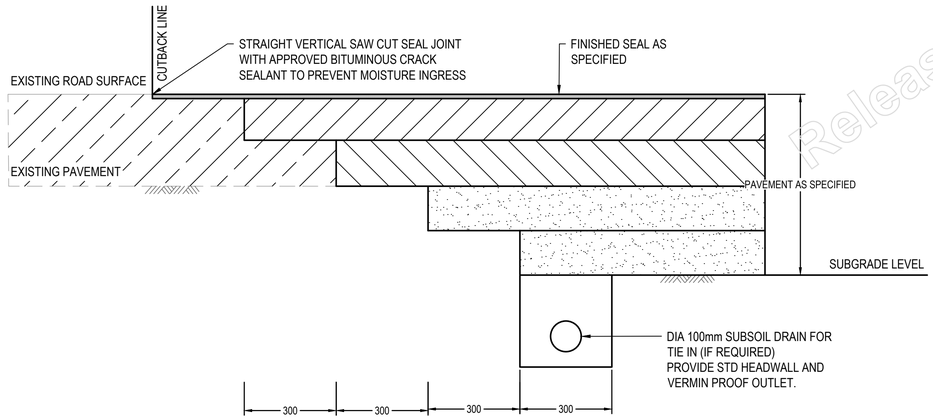
DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD
PROJECT No.: 210173P	DRAWING No. : C875
	VERSION: C

FULL SIZE : A1

PLOTTED: 13 Aug 2025
FILENAME: N:\01\01 Vatman Ltd (Lvl2) - SUBS\SUB25\SUB25001 (NF220223) Mt Walker Quarry Access Rd\03. Civil\01. DA\Dwr A1\02. Acad\C875 PAVEMENT LAYOUT PLAN.dwg

Released under RTI - DTMR





PAVEMENT KEY-IN DETAIL

KEY IN BETWEEN PAVEMENT TYPES SIMILAR
SCALE 1:10

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: REFER TO DRG C875 FOR TYPICAL PAVEMENT PROFILES.

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	11.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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ACN - 671 130 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 2 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C876	C

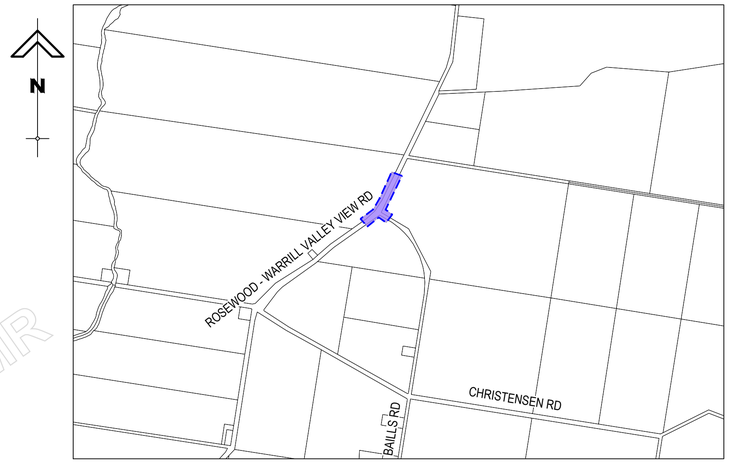
Released under RTI - DTMR

PLOTTED: 13 Aug 2025 FILENAME: N:\01\01 Valmac Ltd Co\052 - SUBTS\SUB125\SUB72500L (MF427023) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C875 PAVEMENT LAYOUT PLAN.dwg

MT WALKER QUARRY ACCESS ROAD
INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

SCHEDULE OF DRAWINGS	
SHEET No.	SHEET TITLE
C800	COVER SHEET AND LOCATION PLAN
C801	STANDARD NOTES
C820	DEMOLITION LAYOUT PLAN
C825	25m B-DOUBLE SWEPT PATH LAYOUT PLAN
C835	INTERSECTION EROSION AND SEDIMENTATION CONTROL PLAN
C836	INTERSECTION EROSION AND SEDIMENTATION CONTROL DETAILS
C840	EARTHWORKS LAYOUT PLAN
C860	ROAD INTERSECTION OVERALL LAYOUT PLAN
C861	INTERSECTION LAYOUT PLAN SHEET 1 OF 2
C862	INTERSECTION LAYOUT PLAN SHEET 2 OF 2
C863	ROSEWOOD-WARRILL VIEW ROAD DETAILS
C864	ROSEWOOD-WARRILL VIEW ROAD LONGITUDINAL SECTIONS
C865	ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 1 OF 3
C866	ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 2 OF 3
C867	ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 3 OF 3

SCHEDULE OF DRAWINGS	
SHEET No.	SHEET TITLE
C868	CHRISTENSEN ROAD LONGITUDINAL SECTION
C869	CHRISTENSEN ROAD CROSS SECTIONS
C870	INTERSECTION SIGNAGE LAYOUT PLAN SHEET 1 OF 2
C871	INTERSECTION SIGNAGE LAYOUT PLAN SHEET 2 OF 2
C875	PAVEMENT LAYOUT PLAN SHEET 1 OF 2
C876	PAVEMENT LAYOUT PLAN SHEET 2 OF 2
C880	INTERSECTION SIGHT LINE PLAN
C890	CATCHMENT LAYOUT PLAN
C891	STORMWATER LAYOUT PLAN SHEET 1 OF 2
C892	STORMWATER LAYOUT PLAN SHEET 2 OF 2
C895	STORMWATER CULVERT SECTIONS SHEET 1 OF 2
C896	STORMWATER CULVERT SECTIONS SHEET 2 OF 2
C897	STORMWATER LONGITUDINAL SECTIONS
C898	STORMWATER CALCULATIONS TABLE
C899	STORMWATER DETAILS



LOCALITY PLAN
N.T.S.

GENERAL NOTES

1. CONTRACT DOCUMENTATION
ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE TMR'S SPECIFICATION RELEVANT TO THE WORKS.

2. SURVEY INFORMATION
CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE CONTRACTOR'S SURVEYOR. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.

3. DATUM
DATUM AS SUPPLIED BY THE PRINCIPAL'S SURVEYOR.

4. EXISTING SURVEY CONTROL STATIONS
THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.

5. EXISTING SERVICES
EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SERVICES. WHERE PROPOSED SERVICES CROSS ANY EXISTING SERVICES THE CONTRACTOR SHALL POT HOLE AND RECORD THE SIZE LOCATION AND DEPTH OF THE EXISTING SERVICES. ALL PRIVATE SERVICES SHALL BE LOCATED IN LINE AND DEPTH PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ARRANGE FOR ANY DEVIATION OF SERVICES TO BE CARRIED OUT BY THE ASSET OWNER OR THEIR NOMINATED REPRESENTATIVE.

6. SITE ACCESS
THE CONTRACTOR SHALL GAIN ACCESS TO THE WORK SITES AT LOCATIONS APPROVED BY THE SITE MANAGER. FREEDOM OF ACCESS TO PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL WORK WITHIN THE APPROVED CONSTRUCTION MANAGEMENT PLAN.

7. PROVISION FOR TRAFFIC
PROVISION FOR TRAFFIC ON EXISTING LOCAL ROADS IS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL AUTHORITY REQUIREMENTS.
THE CONTRACTOR IS TO TAKE PARTICULAR CARE TO ENSURE THAT VEHICULAR AND PEDESTRIAN ACCESS TO EXISTING PROPERTIES IN LOCAL STREETS IS MAINTAINED AT ALL TIMES THROUGHOUT THE COURSE OF THE WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL TRAFFIC MANAGEMENT PLANS AND REPORTS TRAFFIC GUIDANCE SCHEMES FOR THE APPROVAL OF TMR AND ARRANGING, MAINTAINING AND COMPLYING WITH THE REQUIREMENTS OF ALL ROAD CORRIDOR ACCESS PERMITS REQUIRED BY TMR TO CARRY OUT THE WORKS. COUNCIL SHALL BE NOTIFIED OF ALL CORRESPONDENCE AND SUBMISSIONS TO TMR.

8. WORK BOUNDARIES
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORK AREAS UNDER THIS CONTRACT. AT NO TIME SHALL THE CONTRACTOR ENTER ADJOINING PROPERTIES OR CONTRACT WORK AREAS ON THE SITE WITHOUT WRITTEN AUTHORISATION FROM THE SITE MANAGER.

9. SITE CLEARING
CLEARING AND GRUBBING SHALL BE CARRIED OUT TO ALL WORK AREAS AS SPECIFIED AND SHALL INCLUDE THE REMOVAL OF ALL REMAINING TREES AND TREE ROOTS (UNLESS NOMINATED TO BE PRESERVED), EXISTING VEGETATION, SURFACE MULCH, TIMBER, FENCES AND ANY OTHER DEBRIS. TRESS SHALL ONLY BE REMOVED IN ACCORDANCE WITH AN APPROVED VEGETATION MANAGEMENT PLAN.

10. TOPSOIL STRIPPING
ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE REMOVED FROM SITE.

11. EARTHWORKS (GENERAL)
a) ALL FILL MATERIAL PLACED SHALL BE COMPACTED AND TRIMMED TO FINAL EARTHWORKS LEVELS AND PROFILES SHOWN ON THE CONTRACT DRAWINGS AND TESTED IN ACCORDANCE WITH THE TMR SPECIFICATION MRTS 04.
b) LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
c) EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
d) ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL AUTHORITIES STANDARD EARTHWORKS SPECIFICATION MRTS 04 AND AS3798.
e) EXCESS CUT TO BE REMOVED FROM SITE.
f) ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.
g) THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE TMR SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS.
h) QUALITY TESTS
QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY TMR.
i) SUBGRADE TESTS
THE EXPOSED SUBGRADE IS TO BE INSPECTED BY THE GEOTECHNICAL CONSULTANT TO CONFIRM THAT THE MATERIAL IS CONSISTENT WITH TEST RESULTS AND RECOMMENDATION ISSUED IN THE GEOTECHNICAL INVESTIGATION REPORT. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT IN COMPLIANCE WITH TMR STANDARD REQUIREMENTS TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

12. COMPACTION STANDARDS
ALL FILL MATERIAL PLACED UNDER THIS CONTRACT SHALL BE COMPACTED IN ACCORDANCE WITH THE EARTHWORKS NOTES AND TMR STANDARD SPECIFICATION MRTS 04. ALL PLACEMENT OF FILL SHALL BE PLACED AND TESTED UNDER LEVEL 1 CONDITIONS.

13. STORMWATER DRAINAGE
LOCATION AND ALIGNMENT OF ALL STORMWATER DRAINLINES IS TO BE VERIFIED ON SITE WITH THE SITE MANAGER PRIOR TO EXCAVATION. THE DESIGN SURFACE LEVELS OF MANHOLES AND OTHER STRUCTURES ARE TO BE VERIFIED ON SITE WITH THE SITE MANAGER.
ALL DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TMR STANDARD SPECIFICATIONS.

14. ELECTRICAL & TELECOMMUNICATION RETICULATION
ALIGNMENTS OF ALL CONDUIT ARE TO BE VERIFIED ON SITE WITH THE OWNER PRIOR TO EXCAVATION. ALL TRENCHING AND CONDUIT WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE TMR'S AND SERVICE PROVIDERS STANDARD SPECIFICATION.

15. TOPSOIL REPLACEMENT AND GRASSING
FOLLOWING COMPLETION OF ROADWORKS CONSTRUCTION AND BULK EARTHWORKS OPERATIONS, THE FULL EXTENT OF VERGES, BATTERS AND DISTURBED ARE TO BE RE-TOPSOILED TO A MINIMUM DEPTH OF 150mm AND GRASS SEEDED.

16. TESTING
ALL TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY IN ACCORDANCE WITH THE TMR'S STANDARD SPECIFICATIONS.

17. "AS CONSTRUCTED" SURVEY
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE CONTRACTOR'S REGISTERED SURVEYOR. AS WORK PROCEEDS AS CONSTRUCTED SURVEY SHALL BE PROVIDED FOR ALL FINISHED SURFACE LEVELS, STORMWATER PIPES AND PITS, ALL PAVEMENT AND SUBGRADE LAYERS AND ALL OTHERS ROAD IMPROVEMENTS TO MEET THE REQUIREMENTS OF THE TMR MRTS 56.
THE CONTRACTOR SHALL SUPPLY ALL AS CONSTRUCTED DOCUMENTS INCLUDING MATERIAL SUPPLY CERTIFICATES, MATERIAL COMPACTION CERTIFICATES, PIPE AND CULVERT SUPPLY DOCKETS, CONCRETE COMPRESSIVE STRENGTH TESTS RESULTS (ALL CONCRETE WORKS), TWO COAT SEAL SEAL DESIGN CERTIFICATES, AS CONSTRUCTED DOCUMENTS IN PDF, CAD AND ADAC FORMAT, STORMWATER CULVERT AND PIPELINE CCTV REPORTS SUFFICIENT FOR THE CERTIFYING ENGINEER TO PREPARE CERTIFICATION OF THE WORKS PRIOR TO THE WORKS BEING SUBMITTED FOR ON-MAINTENANCE WITH TMR.

18. MAINTENANCE OF SITE CONDITION
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.

19. DUST
a) NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE.
b) THE CONTRACTOR TO PROVIDE A WATER TRUCK AS REQUIRED TO MINIMISE THE DUST PROBLEM CAUSED BY SITE TRAFFIC.

20. CONDUITS
THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING.

Issued under NR - DTMR

TMR REVIEW

FILENAME: N:\01\01\Vietnam Ltd (LVOS) - SUB\SUB15\SUB025004 (NF4220223) Mt Walker Quarry Access Rd\03. Civil\01 DA\Rev A\02. Acad\C800 COVER SHEET AND LOCATION PLAN.dwg
PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
COVER SHEET AND LOCATION PLAN

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C800	VERSION: E

EARTHWORKS NOTES

NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
3. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL AUTHORITIES STANDARD EARTHWORKS SPECIFICATION AND AS3798.
4. EXCESS CUT TO BE REMOVED FROM SITE.
5. ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.

TESTING

1. THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS.
2. QUALITY TESTS
   QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
3. SUBGRADE TESTS
   THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY THE GEOTECHNICAL ENGINEER WHO SHALL RECOMMEND ANY ADJUSTMENT TO RECOMMENDED CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE EXPOSED SUBGRADE IS TO BE INSPECTED BY THE GEOTECHNICAL CONSULTANT TO CONFIRM THAT THE MATERIAL IS CONSISTENT WITH TEST RESULTS AND RECOMMENDATION ISSUED IN THE GEOTECHNICAL INVESTIGATION REPORT. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

STORMWATER NOTES

1. GENERAL
   a. LEVELS ARE REDUCE FROM A.H.D. DATUM .
   b. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DTMR STANDARD DRAWINGS AND THE RELEVANT SPECIFICATIONS.
   c. THE CONTRACTOR TO ENSURE ALL THE CONSTRUCTION SHALL BE ACCORDANCE WITH THE AS/N25 3500.3.2015 AND TO THE SATISFACTION OF THE RELEVANT STANDARD TMR SPECIFICATION.
   d. THE CONTRACTOR SHALL LIAISE WITH AUTHORITIES PRIOR TO COMMENCING WORK TO LOCATE ALL EXISTING SERVICE.
2. STORMWATER DRAINAGE
   a. ALL PIPES ARE TO BE CLASS 2 STEEL REINFORCED CONCRETE PIPES. UNO.
   b. MANHOLE AND HEADWALLS SHALL BE LOCATED AT THE POSITIONS SHOWN IRRESPECTIVE OF THE PIPE LENGTHS SHOWN. WHERE APPLICABLE FIELD INLETS SHALL BE LOCATED AT THE ACTUAL LOW POINTS.
   c. ALL PITS AND MANHOLES CHAMBER TO BE IN ACCORDANCE WITH TMR STD DRGS MRTS 24 AND MRTS 25.
   d. FOR CONSTRUCTION PURPOSES THE CONTRACTOR SHALL MAKE HIS OWN ASSESSMENT OF GROUND WATER AND ITS LIKELY AFFECT ON THE WORKS AND MAKE ALL DUE ALLOWANCE IN THEIR WORKS PROGRAM.
   e. DRAINAGE AS-CONSTRUCTED DATA PREPARED BY A REGISTERED SURVEYOR TO BE SUPPLIED TO SUPERINTENDENT PRIOR TO PLACEMENT OF PAVEMENT SUBBASE COURSE.
   f. ALL PIT AND MANHOLE COVERS TO BE CLASS D U.N.O.
   g. PIPES AND CULVERTS SHALL BE LAID IN ACCORDANCE WITH DTMR STD DRG 1359.
   h. THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR SUSTAINING FISH LIFE IN STATE CONTROLLED WATERWAYS.

PROJECT SPECIFICATIONS & STD DRAWINGS

ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING TMR STD DOCUMENTS:

TECHNICAL SPECIFICATIONS

MRTS03	DRAINAGE STRUCTURES RETAINING STRUCURES AND EMBANKMENT SLOPE PROTECTION
MRTS04	EARTHWORKS
MRTS05	UNBOUND PAVEMENTS
MRTS11	SPRAYED BITUMINOUS TREATMENTS
MRTS12	SPRAYED BITUMINOUS EMULSION SUFACING
MRTS19	CUTTER OILS
MRTS21	BITUMINOUS EMULSION
MRTS22	SUPPLY OF COVER AGGREGATE
MRTS30	ASPHALT PAVEMENTS

STANDARD DRAWINGS

SD1043	REINFORCING STEEL STD BAR SHAPES TYPICAL DETAILS AND NOTES DRGS 1 TO 4
SD1243	PRECAST CULVERT HEADWALL CONNECTIONS DRGS 1 TO 3
SD1260	RCBOX CULVERTS AND SLAB LINK BOX CULVERTS HEIGHTS 375 TO 600 DRGS 1 AND 2
SD1271	RC BOX CULVERTS IN ADR AMBER MAPPED WATERWAYS
SD1305	CULVERTS HEADWALL AND APPRON FOR PIPE DIA 375 tTO 675 MM DRGS 1 AND 2
SD1307	CAST INSITU DETAILS FOR 1050 TO 1200 DIA SW CHAMBERS
SD1308	PRECAST ROOF SLAB DETAILS FOR 1050 TO 1200 DIA SW CHAMBERS
SD1356	ROAD EDGE GUIDE POSTS
SD1358	MAINTENANCE MARKER POSTS
SD 1359	CULVERTS INSTALLATION FILLING/BACKFILLING OVER OR AGAINST CULVERTS

PAVEMENTS

1. THE DESIGN PAVEMENT DEPTHS ALLOWED IN THE EARTHWORKS CALCULATIONS ARE BASED ON THE DEPTHS SHOWN ON THE PRELIMINARY PAVEMENT PROFILES ON DRG C875.
2. THE PAVEMENT DESIGN DEPTHS ARE SUBJECT TO SUB-GRADE INVESTIGATIONS. THE CONTRACTOR IS TO PROVIDE A FULL GEOTECHNICAL INVESTIGATIONS REPORT TO ADDRESS THE PAVEMENT SUBGRADE CBR, CULVERT AND PIPE BASE CONDITIONS, USE OF CUT MATERIAL AS FILL, AND ADVICE ON STABLE BATTERS ALL IN ACCORDANCE WITH TMR REQUIREMENTS.
3. THE SUPERVISING RPEQ WILL CO-ORDINATE THE AUTHORITIES APPROVAL OF THE PAVMEENT DESIGN USING THE ABOVE INFORMATION.

SEDIMENT AND EROSION CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLANS.
2. IDENTIFICATION, TREATMENT AND ON-GOING MANAGEMENT OF ENVIRONMENTAL ISSUES IS TO BE IMPLEMENTED AND MANAGED ON SITE DURING THE CONSTRUCTION PHASE BY THE PRINCIPAL CONTRACTOR WITH REFERENCE TO THE APPROVED PLANS.
3. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED THROUGHOUT THE SITE TO REDUCE THE RISK OF EROSION, MINIMISE THE GENERATION OF SEDIMENTS AND PREVENT OFF-SITE TRANSPORT OF SEDIMENTS AND DUST AT ALL STAGES THROUGH OUT TAG CONTRACT PERIOD.
4. CONTROL MEASURES ARE TO BE PROGRESSIVELY INSTALLED DURING CONSTRUCTION ACTIVITIES FOR THE SITE, TYPICALLY AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. TYPICAL DEVICE DETAILS ARE TO BE CONSTRUCTED AS DETAILED AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE ESC PLANS, MRTS 52 AND BEST PRACTICE EROSION AND SEDIMENT CONTROL IECA.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE REGULARLY MAINTAINED AND INSPECTED FOR EFFECTIVENESS. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE DEVICES MEET THE EROSION MANAGEMENT OBJECTIVES.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION .
7. THE EXTENT AND POSITION OF THE EROSION AND SETTLEMENT CONTROL MEASURES IS TO BE DETERMINED ON SITE BY THE CONTRACTOR TO SUIT THE CONSTRUCTION PROGRAM AND SITE CONDITIONS.
8. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES AND ENSURE THAT THEY MEET TMR STANDARDS.
9. LARGE OPEN AREAS OF STEEP BATTERS SHOULD NOT BE LEFT EXPOSED/UNSTABILISED FOR MORE THAN 10 DAYS OR IF WET WEATHER IS FORECASTED.
10. EXPOSED AREAS INCLUDING BATTERS WHICH REMAIN UNWORKED FOR MORE THAN 10 DAYS SHOULD BE STABILISED USING TEMPORARY HYDRO MULCHING HYDROSEEDING OR MULCHING EVEN IF AREAS WILL BE WORKED ON A LATER STAGE.
11. THE CONTRACTOR SHALL BE AWARE OF ITS RESPONSIBILITIES FOR PROTECTING THE DOWNSTREAM ENVIRONMENT AND RECEIVING WATERS FROM POLLUTION AND ENVIRONMENTAL HARM UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.
12. ADDITIONALY THE CONTRACTOR SHALL BE AWARE OF ITS DUTY TO NOTIFY THE LOCAL AUTHORITY AND THE ENVIRONMENTAL PROTECTION AGENCY (QLD) FOR A POTENTIAL OR ACTUAL INCIDENT OF ENVIRONMENTAL HARM UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.

REQUIRED SEQUENCE

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED FUNCTIONAL PRIOR TO THE COMMENCEMENT OF ANY STRIPPING OR PAVEMENT DEMOLITION WORKS AND IN THE FOLLOWING SEQUENCE;
   a. INSTALL ALL PERIMETER SEDIMENT FENCES;
   b. CONSTRUCT TEMPORARY STABILISED SITE ACCESS INSURING ADJACENT STORMWATER RUN-OFF IS THE WORK DIVERTED AWAY FROM THE ACCESS POINTS;
   c. INSTALL SEDIMENT FENCING IN BARRIER FENCING TO CONFINED INGRESS TO AND EGRESS FROM THE SITE TO STABILISE THE ACCESS POINTS ONLY;
   d. PROVIDE INLET PROTECTION TO STORMWATER INLET HEAD WALLS AND GULLIES AFFECTED BY THE WORKS;
   e. INSTALL UPSTREAM DIVERSION BUNDS TO DIVERT CLEAN WATER AROUND THE WORKSITE;
   f. INSTALL ALL REMAINING TEMPORARY SEDIMENT FENCES
   g. CONSTRUCT ANY NOMINATED SEDIMENT BASIN'S AND SEDIMENT TRAP'S INCLUDING INLET TREATMENTS AND OVERFLOW TREATMENTS;
   h. REINSTATE AND STABILISE ALL DISTURBED AREAS PROGRESSIVELY AS WORKS ARE COMPLETED.TEMPORARY STABILISATION TO BE DONE USING MULCHING HYDRO-MULCHING HYDRO-SEEDING, DIRECT SEEDING OR TURFING TO GIVE A 70% COVERAGE OF GROUND SURFACE WITHIN 14 DAYS OF WORKS COMPLETED EVEN IF WORKS MAY CONTINUE LATER.
   i. MATERIALS FOR TEMPORARY MEASURES SHOULD BE STOCKPILED OR STORED CLOSE TO WHERE THEY ARE REQUIRED IN THE EVENT OF RAINFALL BEING FORECASTED OR EXPERIENCED ON SITE.
   j. THE CONTRACTOR SHALL ARRANGE FOR A SUITABLY SIZED WATER TRUCK TO BE AVAILABLE FOR THE ENTIRE EARTHWORKS STAGE. REFER DUST CONTROL.
2. UNDERTAKE ALL WORKS SO THAT LAND DISTURBANCE IS CONFINED TO THE MINIMUM WORKABLE AREAS.
3. ALL WORK AREAS TO BE DELINEATED BY SECURED BARRIER FENCING, DIVERSION BUND UPSLOPE AND SEDIMENT FENCING DOWNSLOPE.
4. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING VEGETATION AND GROUNDCOVER IS RETAINED AS MUCH AS POSSIBLE.
5. WHERE PRACTICAL TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ON SITE.
6. ALL MATERIAL STOCKPILES SHALL BE LOCATED AWAY FROM AREAS OF CONCENRATED FLOW AND SHALL NOT IN THEMSELVES CAUSE FLOW TO BE CONCENTRATED.
7. ALL STOCKPILES SHALL HAVE A DOWNSLOPE SEDIMENT FENCE OR MULCH BUND INSTALLED. IF A PORTION OF THE STOCKPILE IS ACTIVELY WORKED THE SEDIMENT FENCE OR BUND MUST BE REINSTATED PRIOR TO ANY LIKELIHOOD OF RAINFALL (>10%) AT THE END OF THE DAILY WORKS.
8. A FLOW DIVERSION STRUCTURE SHOULD BE IMPLEMENTED IMMEDIATELY UPSLOPE OF A STOCKPILE IF THE CATCHMENT EXCEEDS 1500m^2.
9. AT ALL TIMES THE CONTRACT ARE SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSLOPE CONSTRUCTION AND RECEIVING ENVIRONMENTS.
10. FINAL SITE LANDSCAPING SURFACE TREATMENTS SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS OF THE CONSTRUCTION OF BATTERS AND OPEN AREAS.
11. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED ONCE THE UPSLOPE SITE IS STABILISED AND COMPLETED TO THE SATISFACTION OF THE SUPERINTENDENT.

DUST SUPPRESSION

1. THE CONTRACT ARE SHALL SECURE A SUITABLE SOURCE OF WATER FOR THE PURPOSE OF DUST SUPPRESSION.
2. DURING WINDY AND DRY WEATHER ANY UNPROTECTED AREAS SHALL BE KEPT MOIST NOT WET BY SPRINKLING WITH WATER UNDER CONTROL.
3. APPLY OPEN WEAVE BARRIER FENCING ON THE WINDWARD SIDE OF SITE FENCING AS REQUIRED.
4. IF VISIBLE DUST EMISSIONS ARE OCCURRING THE WORKS ARE TO CEASE IMMEDIATELY UNTIL DUST CONTROL MEASURES ARE PUT IN PLACE AND ARE SATISFACTORY MITIGATING DUST EMISSIONS.

OTHER MATTERS

1. ACCEPTABLE RECEPTORS AND DISPOSAL PRACTICES WILL BE USED FOR CONCRETE AND MORTAR SLURRY, PAINTS, LITTER, BITUMEN, ASPHALT AND GENERAL WASTE MATERIALS.
2. ANY EXISTING TREES WHICH ARE NOT REQUIRED OR APPROVED TO BE CLEARED FOR THE WORKS AND OR FORM PART OF THE FINAL LANDSCAPING PLAN SHOULD BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   a. PROTECTING THEM WITH BARRIER FENCING OR MARKERS
   b. ENSURING NOTHING IS NAILED TO THEM
   c. PROHIBITING GRADING, PLACING STOCKPILES OR TRACKING MACHINERY WITHIN THE DRIP LINES.
3. ALL VEHICLE AND EQUIPMENT MAINTENANCE, REFUELLING AND CLEANING ACTIVITIES SHOULD BE CONTAINED IN SPECIFIC BONDED AREAS DISCONNECTED FROM CONCENTRATED FLOW PAST AND THE STORMWATER SYSTEM.
4. ON SITE FUEL STORAGE AREAS SHOULD BE COVERED AND BUNDED.

MAINTENANCE OF PUBLIC ROADS

1. ALL CONSTRUCTION VEHICLES DEPARTING THE SITE SHALL HAVE THEIR TYRES CLEANED DOWN AND SETTLED BY A STABILISED ACCESS DEVICE.
2. THE NOMINATED STABILISE SITE ACCESS AREAS SHALL BE LOCATED AS SHOWN AND TREATED WITH A SEDIMENT FENCE OR BUNDED AREA DOWNSTREAM OF THE ACCESS.
3. THE CONTRACTOR SHALL INSPECT THE PUBLIC ROADS ADJACENT TO THE WORKSITES DAILY AND MANUALLY REMOVE ANY SENTIMENT DEPOSITS BY MECHANICAL SWEEPING NOT WASHED DOWN.
4. CARE MUST BE TAKEN WHEN IMPLEMENTING THE ESC MEASURES IMMEDIATELY ADJACENT TO THE ROAD PAVEMENT SO THAT THE EXISTING CATCH DRAIN AND OVERLAND FLOW PATH CAPACITIES ARE NOT IMPEDED OR DIVERTED ONTO THE PAVEMENT.
5. ALL ESC MEASURES AND WORKS WITHIN 10M OF THE EDGE OF THE TRAFFIC LANE MUST BE REVIEWED BY A TRAFFIC CONTROL CONSULTANT AND CONSIDERED IN THE WORKS TRAFFIC CONTROL PLAN.

SITE INSPECTION AND MAINTENANCE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED REGULARLY IMMEDIATELY PRIOR TO PREDICTED LARGE STORM EVENTS AND AFTER EVERY SIGNIFICANT RAINFALL EVENTS OR AT LEAST ON A WEEKLY BASIS.
2. THE CONTRACTOR WILL AS A MINIMUM CONDUCT EACH INSPECTION IN LINE WITH THE FOLLOWING
   a. RECORD THE TYPE OF DEVICE CONTROL MEASURE BEING INSPECTED AND ITS LOCATION AND CONDITION;
   b. RECORD ALL MAINTENANCE REQUIREMENTS FOR THE CONTROL DEVICE;
   c. ASSESS AND RECORD SEDIMENT VOLUMES REMOVED FROM THE SEDIMENT TRAPPING DEVICES
   d. RECORD DETAILS OF SEDIMENT BASIN TREATMENT FLOCCULENT DOSAGES AND CLEANUP
   e. RECORD SEDIMENT DISPOSAL PROCEDURES AND LOCATION;
   f. COMMENT ON THE PERFORMANCE OF THE DEVICE AND RECOMMENDATIONS FOR ANY REMEDIAL ACTION.
3. ALL REPAIRS AND MAINTENANCE OF THE DEVICES AND MEASURES SHALL BE UNDERTAKEN AS REQUIRED ENSURING THAT ALL MEASURES ARE FULLY FUNCTIONAL AT ALL TIMES.
4. ENSURE THAT SEDIMENT LADEN WATER HAS NOT BEEN DIVERTED AROUND DEVICES AND IF SO PROVIDE PLAN FOR CLEAN UP.
5. REPAIR SCOUR DAMAGE AFTER RAINFALL EVENTS AND REINSTATE DEVICES AS NECESSARY.
6. SEDIMENT FENCES WILL REQUIRE CLEANING WHEN SEDIMENT REACHES APPROXIMATELY 300 MM DEPTH OR ONE-HALF OF THE HEIGHT OF THE FILTER FABRIC. ALL OTHER SEDIMENT TRAPS WILL REQUIRE CLEANING OUT WHEN 30% OF THE CAPACITY IS REACHED.
7. ALL INTERNET AND GULLY TRAPS TO BE CLEANED (NOT HOSED) AFTER EVERY RAINFALL EVENT 1 TO 5 MM OR AT LEAST ON A WEEKLY BASIS.
8. SENTIMENT REMOVED FROM ANY TRAPPING DEVICE IS TO BE RELOCATED TO ENSURE THAT FURTHER POLLUTION TO THE DOWNSTREAM ENVIRONMENTS WILL NOT OCCUR.
9. ALL AREAS THAT ARE TREATED WITH HYDROSEEDING SEEDING OR TURFING REQUIRE REGULAR WATERING UNTIL EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOUROUSLY. WATERING SHOULD VARY DEPENDING ON WEATHER AND SOIL CONDITIONS.
10. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE INSPECTION AND MAINTENANCE OF DEVICES IS UNDERTAKEN ON SITE.
11. ALL SITE WASTE INCLUDING GENERAL RUBBISH SHALL BE DISPOSED OF IN AN ENVIRONMENTALLY RESPONSIBLE MANNER IN ACCORDANCE WITH THE SITES WASTE MANAGEMENT PLAN.
12. THE CONTRACTOR SHALL CONSTRUCT AND IMPLEMENT ANY ADDITIONAL MEASURES AS NECESSARY TO ENSURE PROTECTION OF THE DOWNSTREAM ENVIRONMENTS.
13. THE CONTRACT ARE SHALL IDENTIFY ANY NON-CONFORMANCES WITH THE REQUIREMENTS OF THIS DOCUMENT APPROPRIATE CORRECTIVE ACTION SHALL BE IMPLEMENTED TO ENSURE THAT THE NON-CONFORMANCES DO NOT RECUR.
14. IN THE EVENT THAT A MONITORING PROGRAM DETECTS A NOTABLE FAILURE TO ACHIEVE THE REQUIRED OF CONTROL SITE, SEDIMENT OR DUST THE SITE SHALL BE INVESTIGATED BY A SUITABLE QUALIFIED ENGINEER AND THE ESCP SUITABLY MODIFIED TO ENSURE INCIDENTS DO NOT RECUR.

Release for RTI

TMR REVIEW

FILENAME: N:\01\01 Various Ltd (x\052 - SUB\SUB\S\SUB025004 (NF\22023) Mt Walker Quarry Access Rd\03. Civil\01 DA\Rev A\02. Acad\C801 SEDIMENT AND EROSION CONTROL DETAILS.dwg
PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R nigelfletcherassociates.com.au

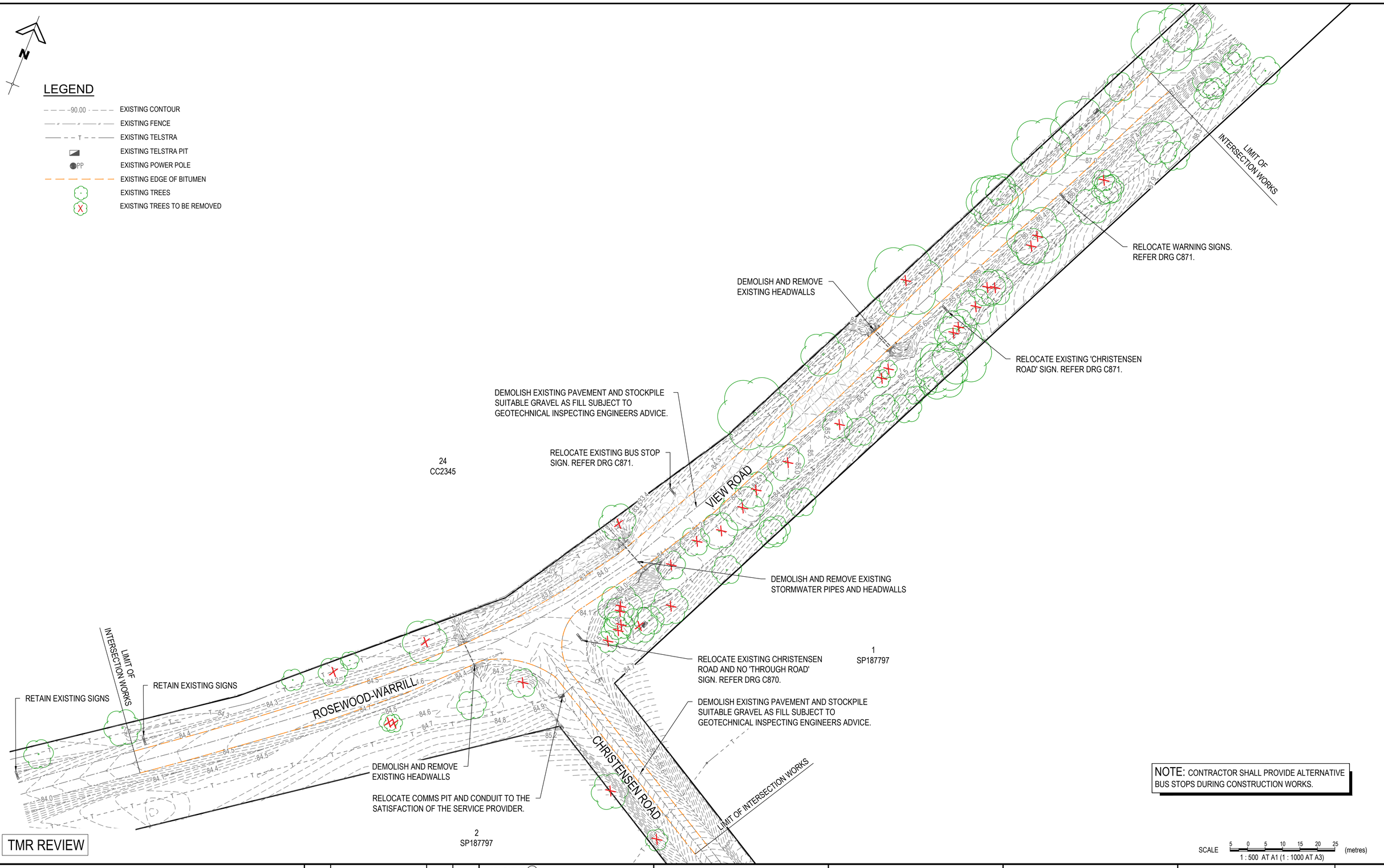
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STANDARD NOTES

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. : [redacted]
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C801 / VERSION: E

LEGEND

- EXISTING CONTOUR
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED



NOTE: CONTRACTOR SHALL PROVIDE ALTERNATIVE BUS STOPS DURING CONSTRUCTION WORKS.

TMR REVIEW

SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

FILENAME: N:\QTLQT Vietnam Ltd (LVQS) - SUBS\SUBSTS\SUBS25004 INF4220223 Mt Walker Quarry Access Rd\03. Civil\01 DA\Rev A\02. Acad\C820 DEMOLISION LAYOUT PLAN.dwg
PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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E: N/R@nigelfletcherassociates.com.au

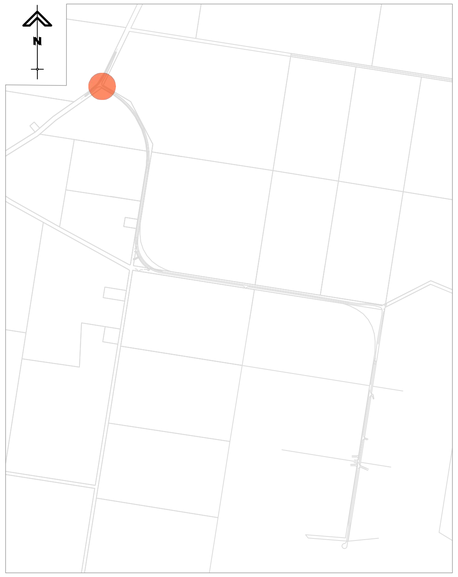
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
DEMOLITION LAYOUT PLAN

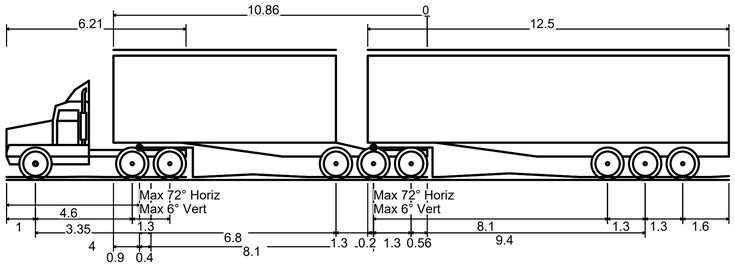
DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C820	VERSION: C



KEY PLAN
N.T.S.



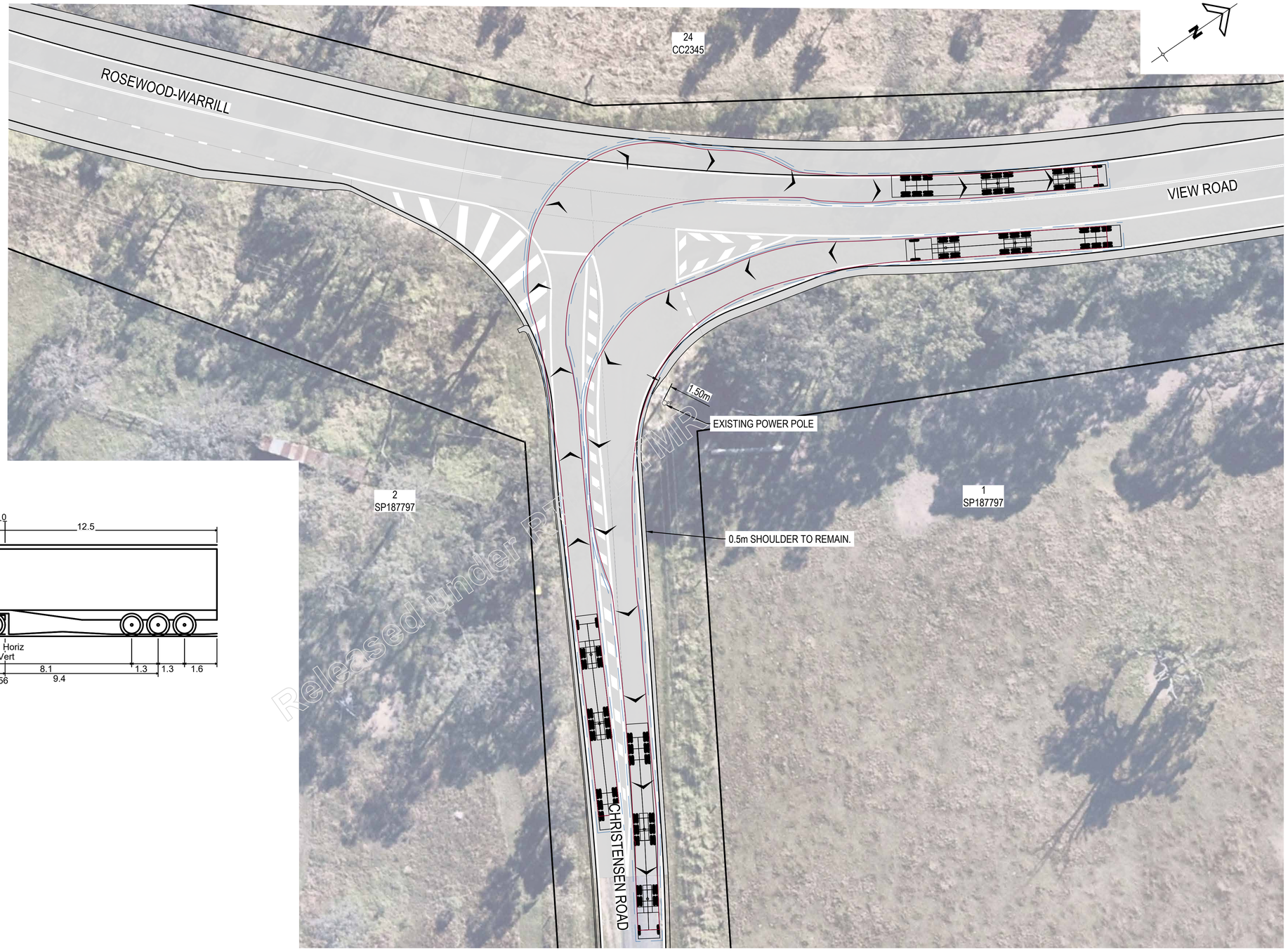
B-DOUBLE (25.0m)

OVERALL LENGTH	25.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.500m
MIN BODY GROUND CLEARANCE	0.100m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	15.000m

LEGEND

- VEHICLE BODY ENVELOPE
- WHEEL PATH
- 0.3m OVERHANG
- PROPOSED ROAD PAVEMENT

TMR REVIEW



25.0m B-DOUBLE TURNING RIGHT OUT AND LEFT IN

SCALE 5 0 5 10 (metres)
1 : 250 AT A1

Released under RTI by TMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR IR RESPONSE	NF	13.08.25
C	TMR REVIEW	NF	25.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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PROJECT:
MT WALKER QUARRY
ACCESS ROAD
INTERSECTION UPGRADE
ROSEWOOD-WARRILL
VALLEY VIEW ROAD AT
CHRISTENSEN ROAD

DRAWING TITLE :
25M B-DOUBLE SWEPT
PATH LAYOUT PLAN

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPRO N/R BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

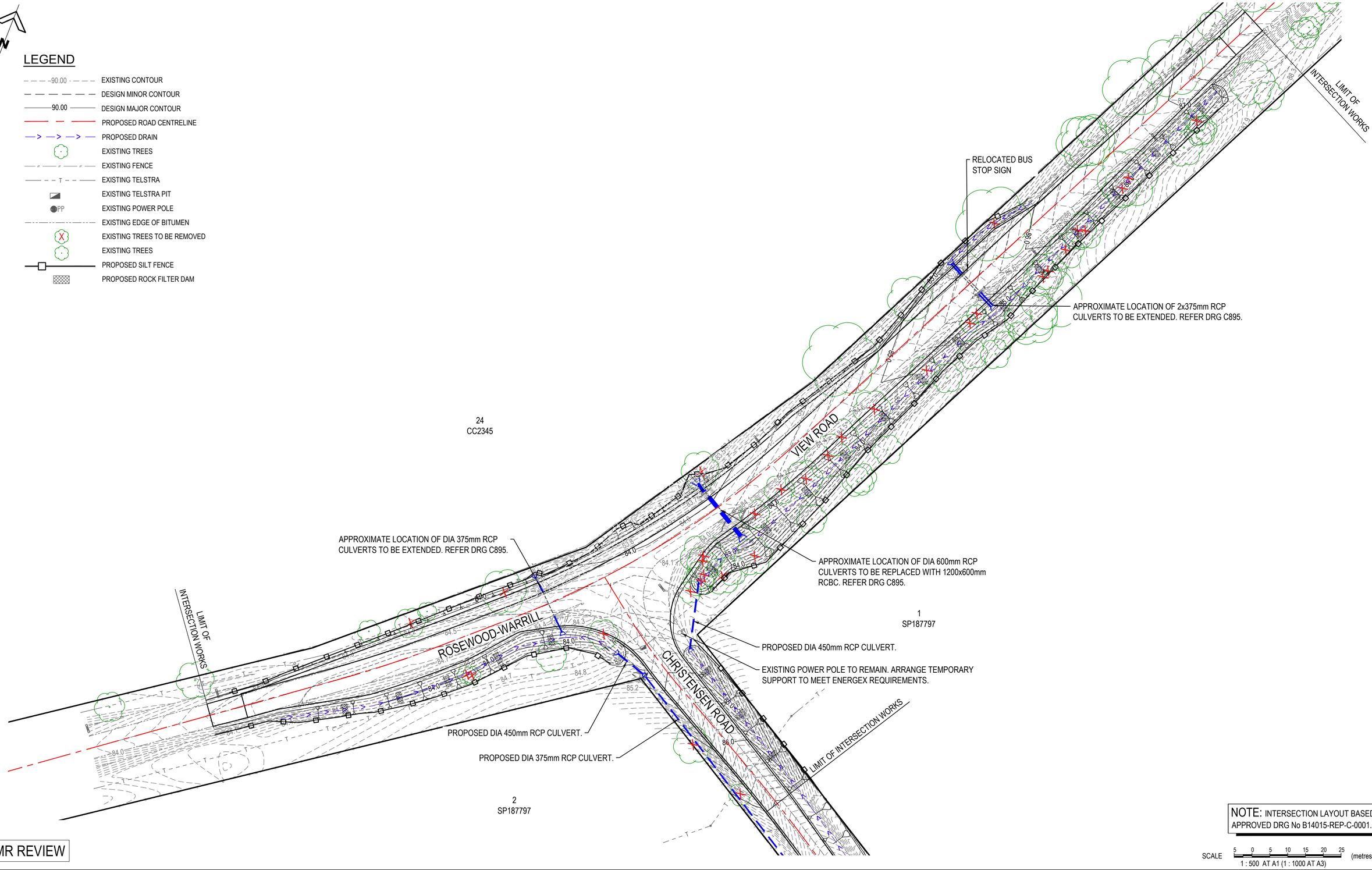
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C825	VERSION: D

FILENAME: N:\GTNQT Vietnam Ltd (x1052 - SUB\SUBTDS\SUB025004 INF4220231 Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. AutoCAD\825 25m DOUBLE SWEPT PATH LAYOUT PLAN.dwg

PLOTTED: 13 Aug 2025

LEGEND

- EXISTING CONTOUR (90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN
- EXISTING TREES
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE (PP)
- EXISTING EDGE OF BITUMEN
- EXISTING TREES TO BE REMOVED
- EXISTING TREES
- PROPOSED SILT FENCE
- PROPOSED ROCK FILTER DAM



24
CC2345

1
SP187797

2
SP187797

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

TMR REVIEW

FILENAME: N:\GTNOT Vietnam Ltd Co\052 - SUBS\SUBTS\SUB025004 INF4220231 Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C835 INTERSECTION EEC PLAN.dwg
PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR IR RESPONSE	NF	13.08.25
C	TMR REVIEW	NF	25.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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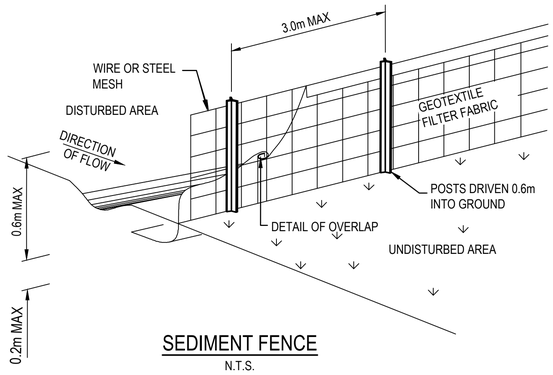
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION EROSION AND SEDIMENTATION CONTROL PLAN

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

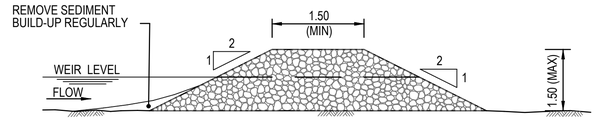
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C835	VERSION: D



SEDIMENT FENCE

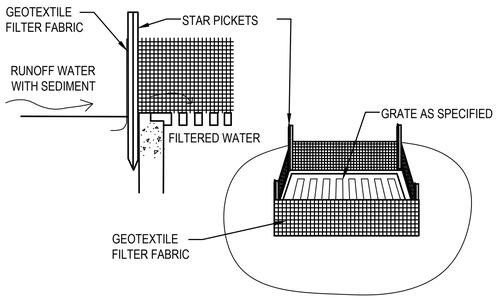
N.T.S.

NOTE: REFER TO IECA STANDARD DRAWINGS & NOTES FOR ALL ADDITIONAL SEDIMENT CONTROL DETAILS.



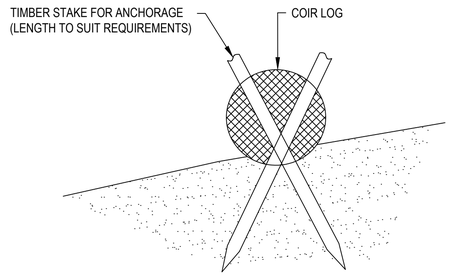
DRAIN LONGITUDINAL SECTION ROCK FILTER DAM

SCALE 1:50



GEOTEXTILE FILTER PIT SURROUND

N.T.S.



STAKED COIR LOG DETAIL

N.T.S.

NOTE: REFER TO DRG C899 FOR SWALE TREATMENTS

SCALE 1.0 0 1.0 2.0 (metres)

1 : 50 AT A1

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR IR RESPONSE	NF	13.08.25
C	TMR REVIEW	NF	25.03.25
B	DETAIL DESIGN	NF	23.12.24
A	DETAIL DESIGN REVIEW	NF	27.09.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 071 139 843
M: N/R
E: N/R@nigelfletcherassociates.com.au

PROJECT:

MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :

INTERSECTION EROSION AND SEDIMENTATION CONTROL DETAILS

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.

N/R

RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C836	VERSION: D

Released under RTI - DTMR

PLOTTED: 13 Aug 2025 FILENAME: N:\QT\QT Vietnam Ltd (LV052 - SUBA\SUB7S\SUB725001 (NF220223) Mt Walker Quarry Access Rd\03. Civil\01. DA\Dev A\02. Acad\C835 INTERSECTION ESC PLAN.dwg

LEGEND

- EXISTING CONTOUR
- EARTHWORKS MINOR CONTOUR
- EARTHWORKS MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES TO BE REMOVED
- EXISTING TREES

EARTHWORKS VOLUME

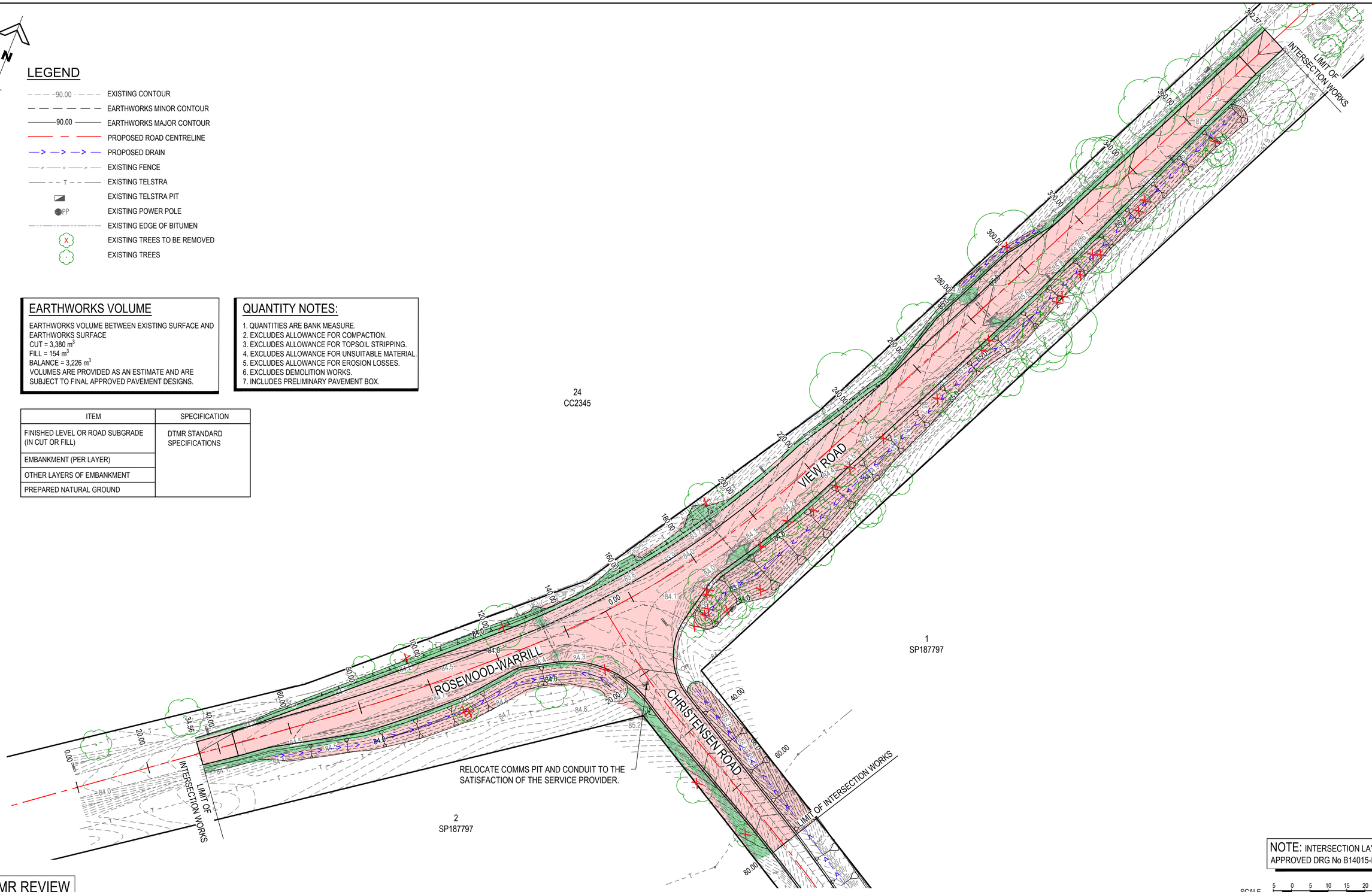
EARTHWORKS VOLUME BETWEEN EXISTING SURFACE AND EARTHWORKS SURFACE
CUT = 3,380 m^3
FILL = 154 m^3
BALANCE = 3,226 m^3
VOLUMES ARE PROVIDED AS AN ESTIMATE AND ARE SUBJECT TO FINAL APPROVED PAVEMENT DESIGNS.

QUANTITY NOTES:

1. QUANTITIES ARE BANK MEASURE.
2. EXCLUDES ALLOWANCE FOR COMPACTION.
3. EXCLUDES ALLOWANCE FOR TOPSOIL STRIPPING.
4. EXCLUDES ALLOWANCE FOR UNSUITABLE MATERIAL.
5. EXCLUDES ALLOWANCE FOR EROSION LOSSES.
6. EXCLUDES DEMOLITION WORKS.
7. INCLUDES PRELIMINARY PAVEMENT BOX.

ITEM	SPECIFICATION
FINISHED LEVEL OR ROAD SUBGRADE (IN CUT OR FILL)	DTMR STANDARD SPECIFICATIONS
EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND	

24
CC2345



TMR REVIEW

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 1 : 500 AT A1 (1 : 1000 AT A3) (metres)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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SOUTHPORT PARK QLD 4215
A N/R
M
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION EARTHWORKS LAYOUT PLAN

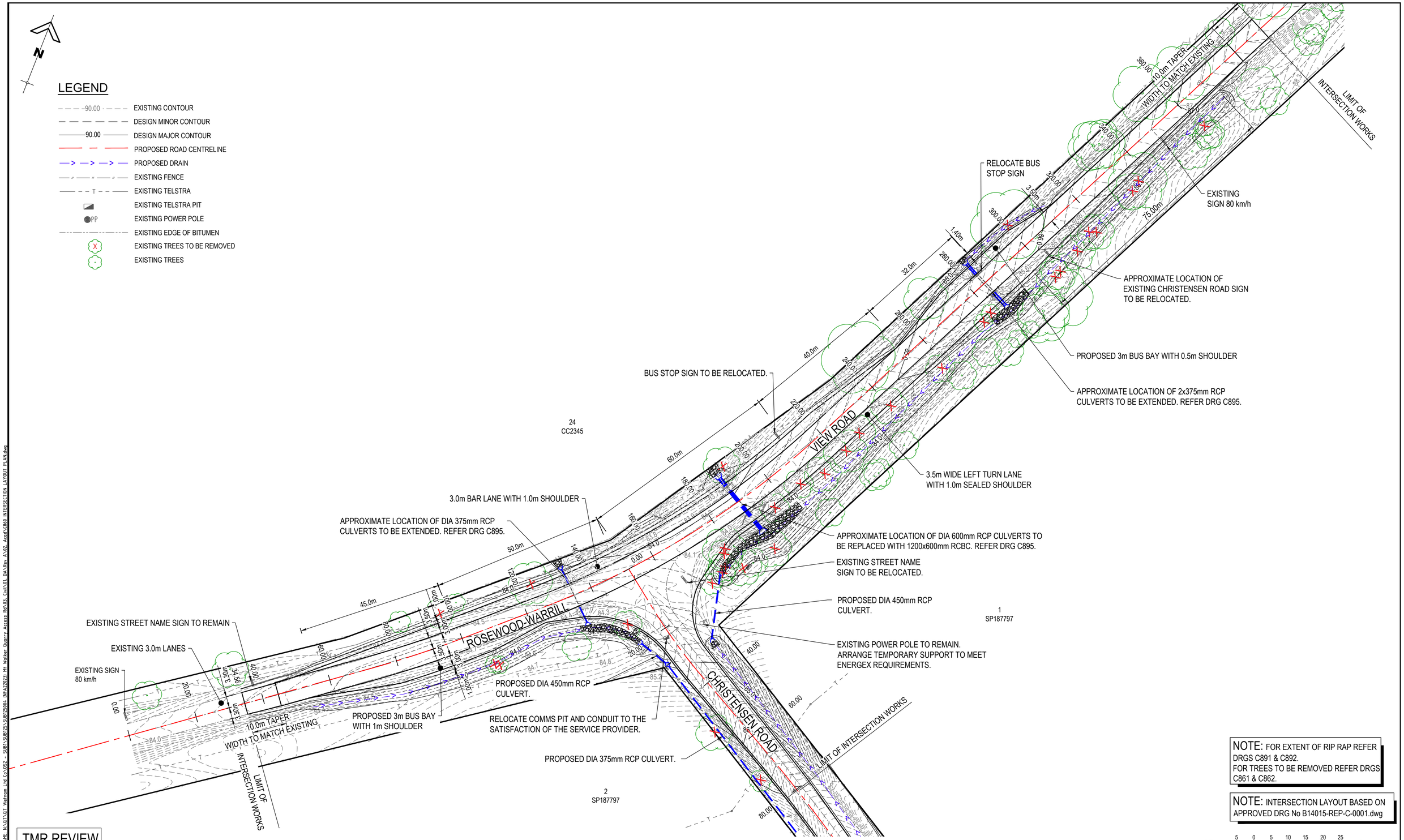
DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C840	VERSION: C

FILENAME: N:\Q1\Q1 Vantage Ltd Co\Q52 - SUBTASQ052\SUBTASQ052_DWG\210173 Mt Walker Quarry Access RG\03. CivilX\01. DANDee A3\02. AcadX\Dwg\ EARTHWORKS PLAN.dwg

PLOTTED 13 Aug 2025



TMR REVIEW

NOTE: FOR EXTENT OF RIP RAP REFER DRGS C891 & C892.
FOR TREES TO BE REMOVED REFER DRGS C861 & C862.

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 5 0 5 10 15 20 25 (metres)
1 : 500 AT A1 (1 : 1000 AT A3)

FILENAME: N:\QTN\T Vietnam Ltd Co\052 - SUB1\SUB1025\SUB1025004 (MFA22023) Mt Walker Quarry Access Rd\03. Civil\01. DIA\Rev A\02. Acad\C860 INTERSECTION LAYOUT PLAN.dwg

PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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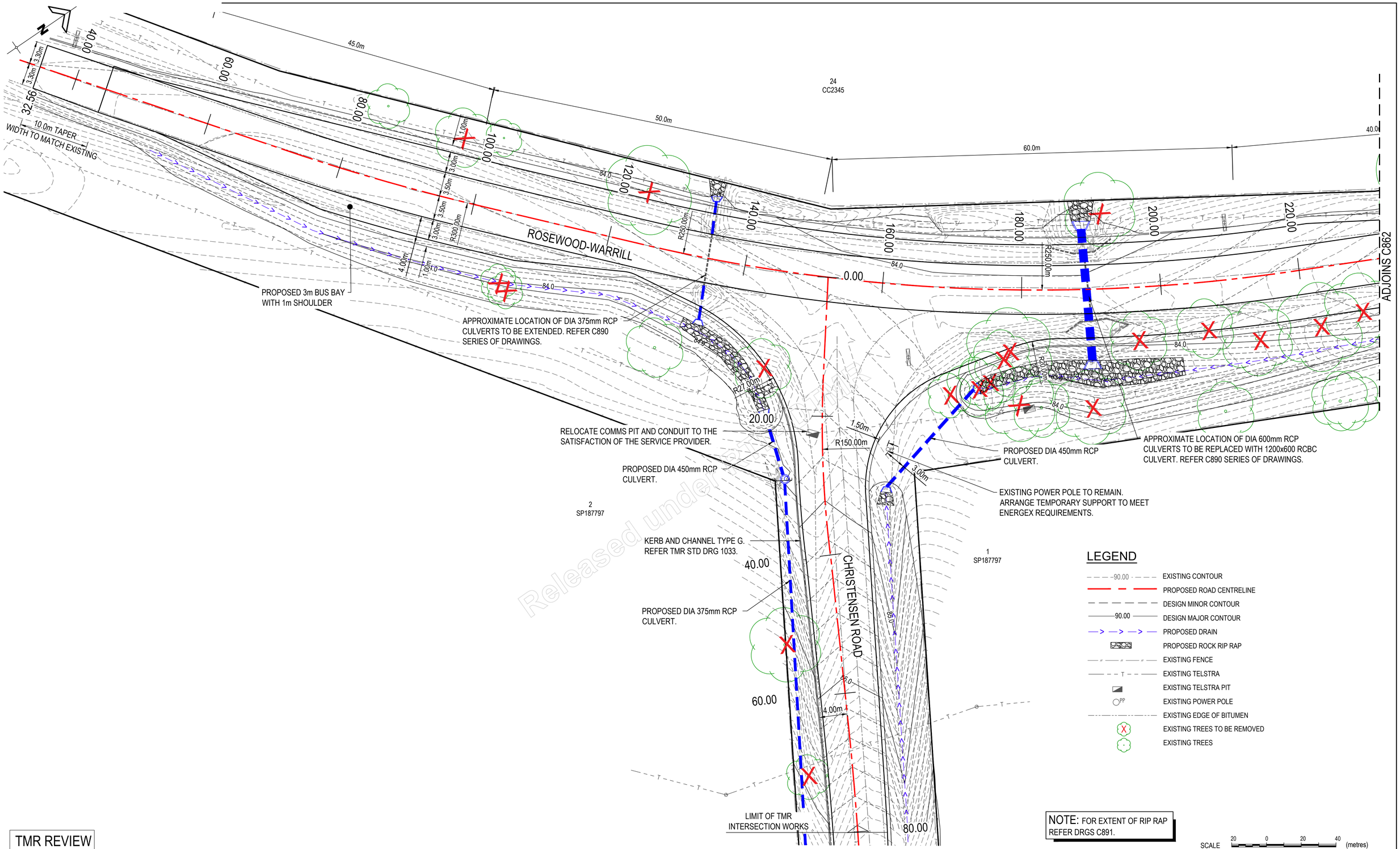
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M: N/R
E: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROAD INTERSECTION OVERALL LAYOUT PLAN

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C860 / VERSION: E



Released under the RTI Act

LEGEND

- EXISTING CONTOUR
- PROPOSED ROAD CENTRELINE
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED DRAIN
- PROPOSED ROCK RIP RAP
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES TO BE REMOVED
- EXISTING TREES

NOTE: FOR EXTENT OF RIP RAP REFER DRGS C891.

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
AC
M N/R
E N/R nigelfletcherassociates.com.au

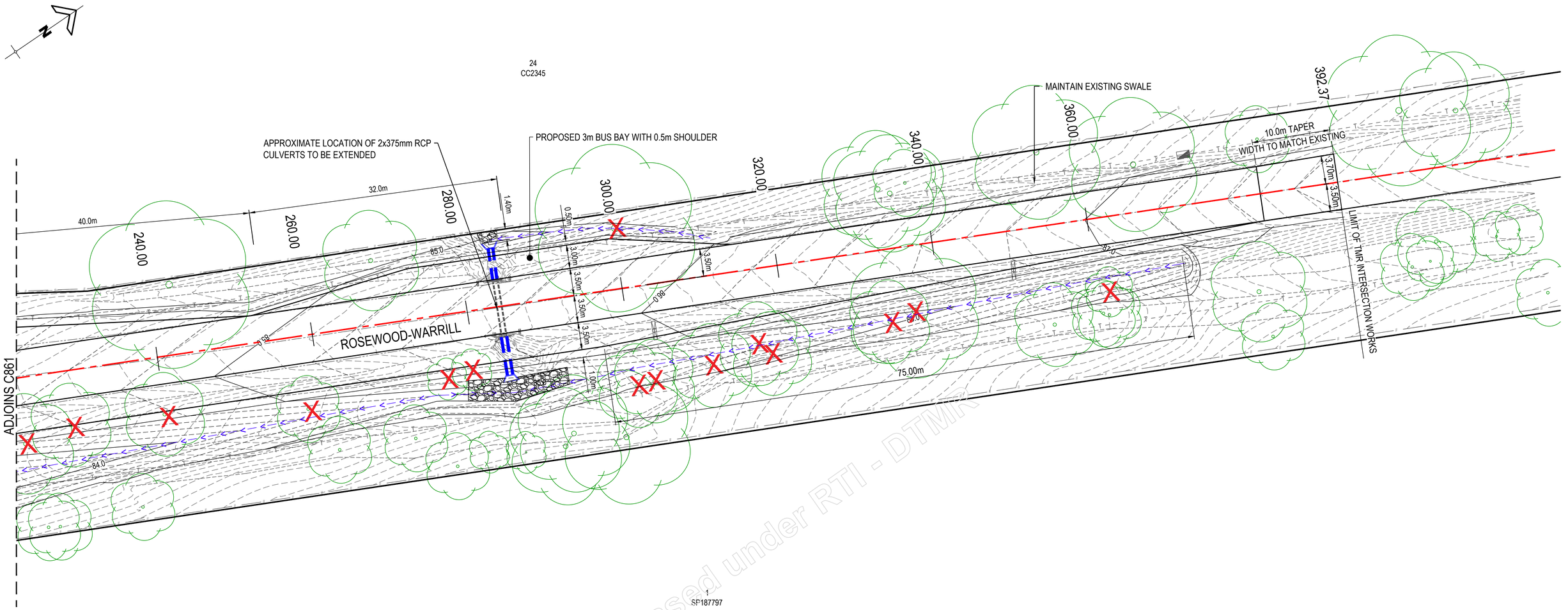
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROAD INTERSECTION LAYOUT PLAN SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C861	VERSION: E



LEGEND

- EXISTING CONTOUR
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN
- PROPOSED ROCK RIP RAP
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES TO BE REMOVED
- EXISTING TREES

NOTE: FOR EXTENT OF RIP RAP REFER DRGS C892.

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
A/C
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROAD INTERSECTION LAYOUT PLAN SHEET 2 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C862	VERSION: E

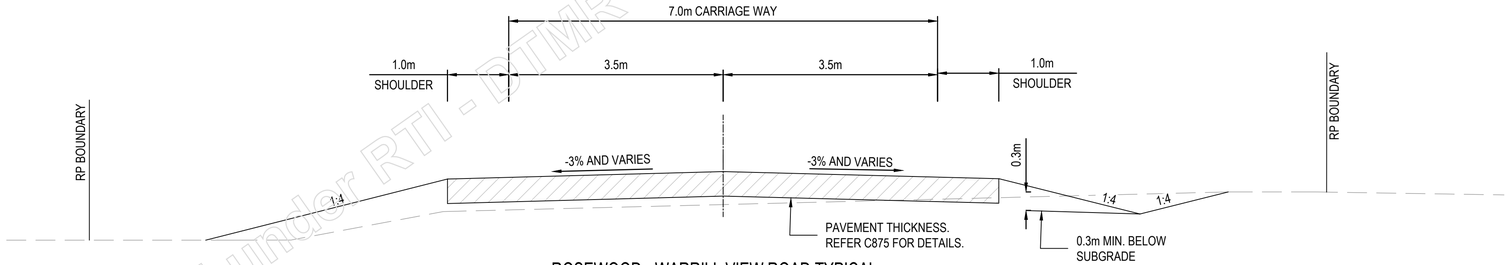
Released under RTI - DTMR

ROSEWOOD WARRILL VIEW ROAD TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH	D.ANGLE
IP1	0.00	456053.581	6931151.755	83.981	53°04'35.78"			
MJ	20.00	456069.570	6931163.770	84.233	53°04'35.78"			
MJ	40.00	456085.559	6931175.785	84.451	53°04'35.78"			
MJ	60.00	456101.547	6931187.800	84.577	53°04'35.78"			
TC	71.89	456111.054	6931194.943	84.628	53°04'35.78"			
MJ	80.00	456117.470	6931199.902	84.635	51°31'40.89"			
IP2	86.06	456122.386	6931203.459	84.640		-300	28.328	5°24'36.90"
MJ	100.00	456132.702	6931212.857	84.603	47°42'29.90"			
CT	100.22	456132.864	6931213.005	84.602	47°39'58.88"			
MJ	120.00	456147.486	6931226.326	84.472	47°39'58.88"			
TC	124.22	456150.608	6931229.170	84.427	47°39'58.88"			
MJ	140.00	456161.928	6931240.155	84.261	44°03'02.06"			
MJ	160.00	456175.245	6931255.070	84.093	39°28'00.88"			
IP3	171.71	456186.137	6931261.536	84.062		-250	94.964	21°45'50.74"
MJ	180.00	456187.326	6931271.002	84.062	34°52'59.69"			
MJ	200.00	456198.096	6931287.848	84.196	30°17'58.51"			
CT	219.19	456207.132	6931304.769	84.455	25°54'08.14"			
MJ	220.00	456207.487	6931305.501	84.468	25°54'08.14"			
MJ	240.00	456216.224	6931323.491	84.782	25°54'08.14"			
MJ	260.00	456224.960	6931341.482	85.104	25°54'08.14"			
MJ	280.00	456233.697	6931359.473	85.463	25°54'08.14"			
MJ	300.00	456242.434	6931377.464	85.853	25°54'08.14"			
MJ	320.00	456251.171	6931395.455	86.261	25°54'08.14"			
MJ	340.00	456259.907	6931413.445	86.623	25°54'08.14"			
MJ	360.00	456268.644	6931431.436	87.005	25°54'08.14"			
MJ	380.00	456277.381	6931449.427	87.442	25°54'08.14"			
MJ	400.00	456286.118	6931467.418	87.868	25°54'08.14"			
IP4	416.88	456293.493	6931482.606		25°54'08.14"			

CHRISTENSEN ROAD TABLE

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH	D.ANGLE
IP1	0.00	456170.114	6931249.037	84.134	127°06'13.33"			
TC	14.00	456181.276	6931240.594	84.461	127°06'13.33"			
MJ	20.00	456186.136	6931237.068	84.624	124°48'35.79"			
IP2	27.50	456192.078	6931232.423	84.849		-150	27.017	10°19'10.68"
MJ	40.00	456203.268	6931226.778	85.277	117°10'13.81"			
IP3	41.01	456204.170	6931226.319	85.315				
MJ	60.00	456220.883	6931217.307	86.100	118°20'04.67"			
TC	64.40	456224.756	6931215.219	86.304	118°20'04.67"			
MJ	80.00	456238.356	6931207.578	87.044	120°19'15.31"			



ROSEWOOD - WARRILL VIEW ROAD TYPICAL

SCALE 1.0 0 1.0 2.0 (metres)

1 : 50 (FULL SIZE)

Released under RTI - DTMR

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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ACN: 671 139 843
M N/R
E N/R@nigelfletcherassociates.com.au

PROJECT:

MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :

ROSEWOOD-WARRILL VIEW ROAD DETAILS

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.

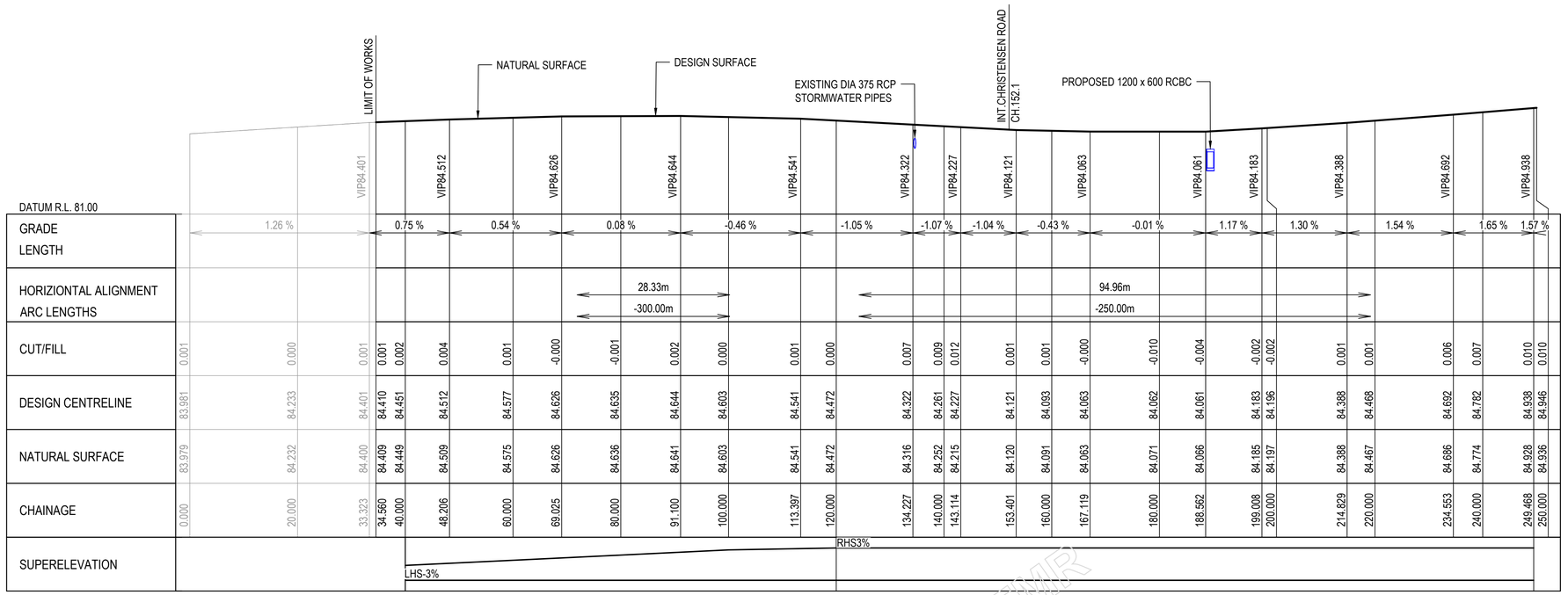
N/R

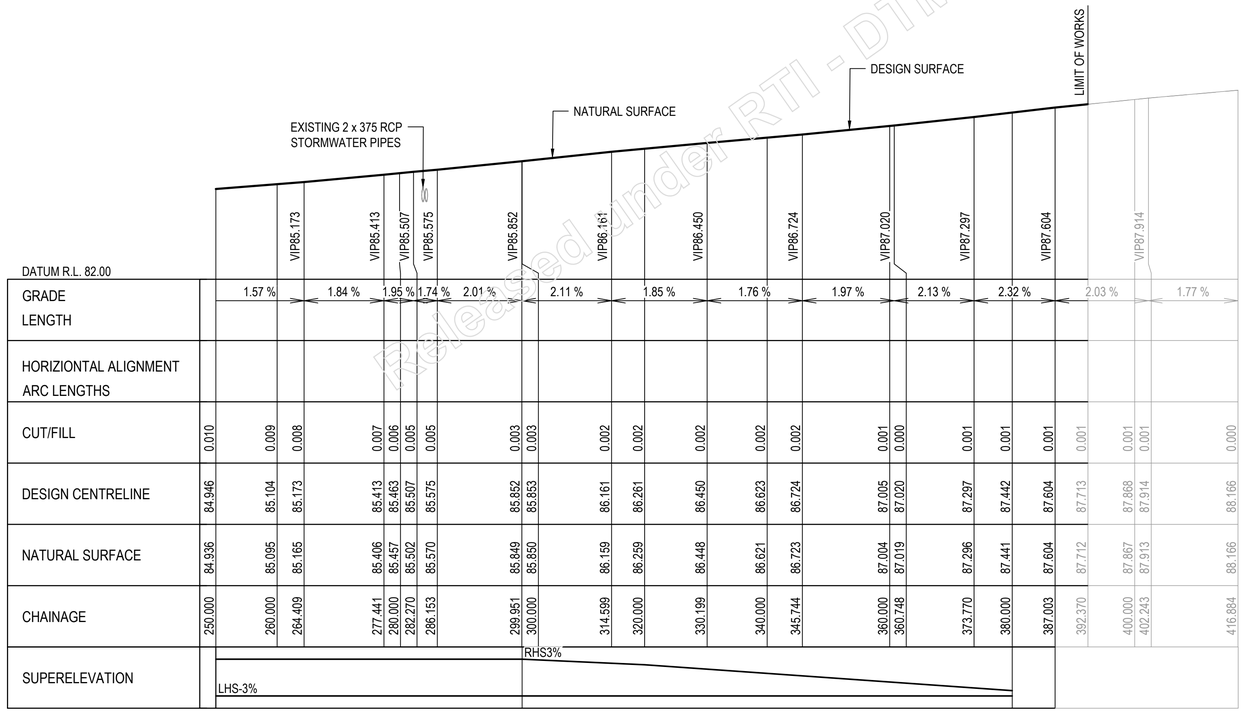
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C863	VERSION: C

FILENAME N:\QTNOF Vietnam Ltd Co\JOBS - SUBS\SUBTS\SUB025004 (NF4232023) Mt Walker Quarry Access Rds\03. Civil\01 DA\Rev A\02. Acad\C863 ROSEWOOD WARRILL VIEW ROAD DETAILS.dwg

PLOTTED: 13 Aug 2025





Released under RTI - DTMR

ROSEWOOD-WARRILL VIEW ROAD LONGITUDINAL SECTION

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)

HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)

(FULL SIZE)

TMR REVIEW

FILENAME: N:\GTV\GT Vietnam Ltd Co\052 - SUBY\SUB725\SUB7250A (RFA22023) Mt Walker Quarry Access Rd\03. Civil\01. DWGs\Rev A\02. Acad\C864 ROSEWOOD WARRILL LONG SECTION.dwg

PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION

A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
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ACN : 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

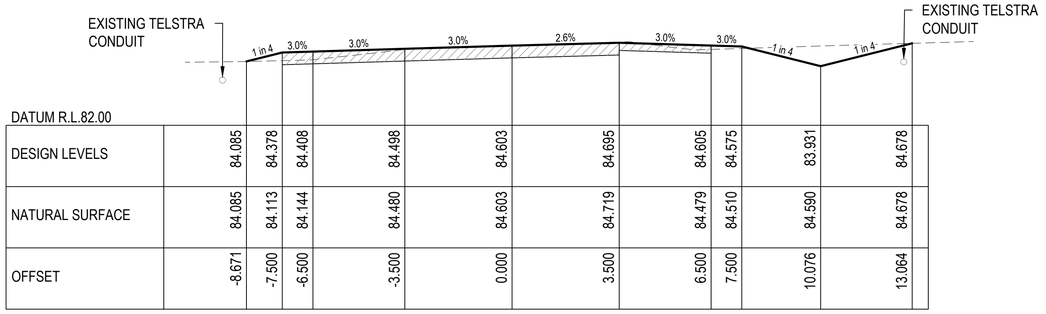
PROJECT:

MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :

ROSEWOOD-WARRILL VIEW ROAD LONGITUDINAL SECTIONS

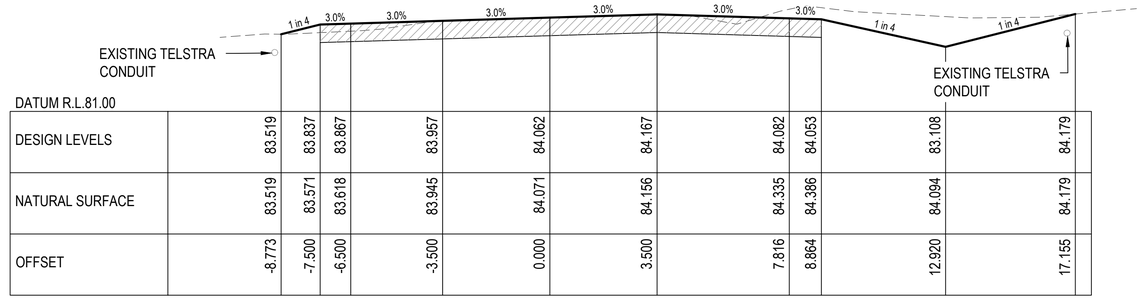
DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER
APPR N/R	HALF OF NIGEL FLETCHER AND ASSOCIATES.
	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C864 / VERSION: E



DATUM R.L.82.00

DESIGN LEVELS	84.085	84.378	84.408	84.498	84.603	84.695	84.605	84.575	83.931	84.678
NATURAL SURFACE	84.085	84.113	84.144	84.480	84.603	84.719	84.479	84.510	84.590	84.678
OFFSET	-8.671	-7.500	-6.500	-3.500	0.000	3.500	6.500	7.500	10.076	13.064

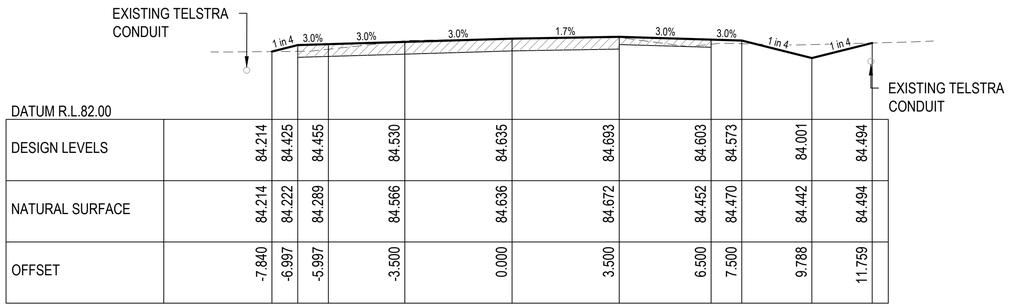
CH 100



DATUM R.L.81.00

DESIGN LEVELS	83.519	83.837	83.867	83.957	84.062	84.167	84.082	84.053	83.108	84.179
NATURAL SURFACE	83.519	83.571	83.618	83.945	84.071	84.156	84.335	84.386	84.094	84.179
OFFSET	-8.773	-7.500	-6.500	-3.500	0.000	3.500	7.816	8.864	12.920	17.155

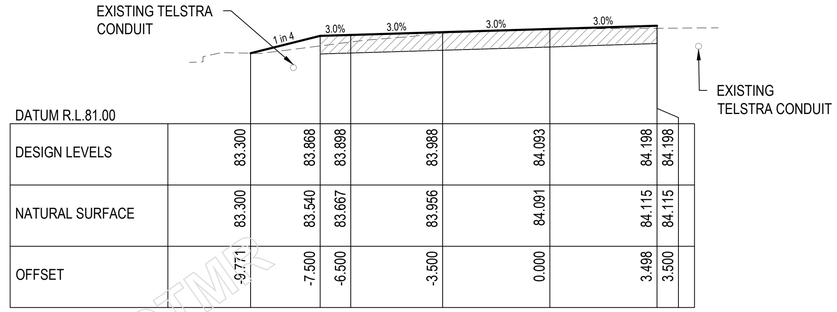
CH 180



DATUM R.L.82.00

DESIGN LEVELS	84.214	84.425	84.455	84.530	84.635	84.693	84.603	84.573	84.001	84.494
NATURAL SURFACE	84.214	84.222	84.289	84.566	84.636	84.672	84.452	84.470	84.442	84.494
OFFSET	-7.840	-6.997	-5.997	-3.500	0.000	3.500	6.500	7.500	9.788	11.759

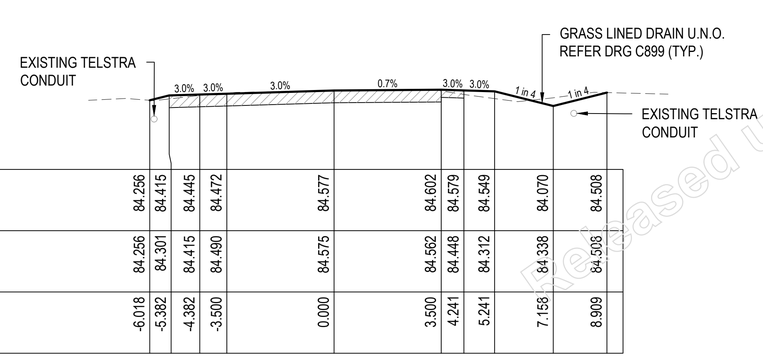
CH 80



DATUM R.L.81.00

DESIGN LEVELS	83.300	83.868	83.898	83.988	84.093	84.198	84.198
NATURAL SURFACE	83.300	83.540	83.667	83.956	84.091	84.115	84.115
OFFSET	-9.771	-7.500	-6.500	-3.500	0.000	3.498	3.500

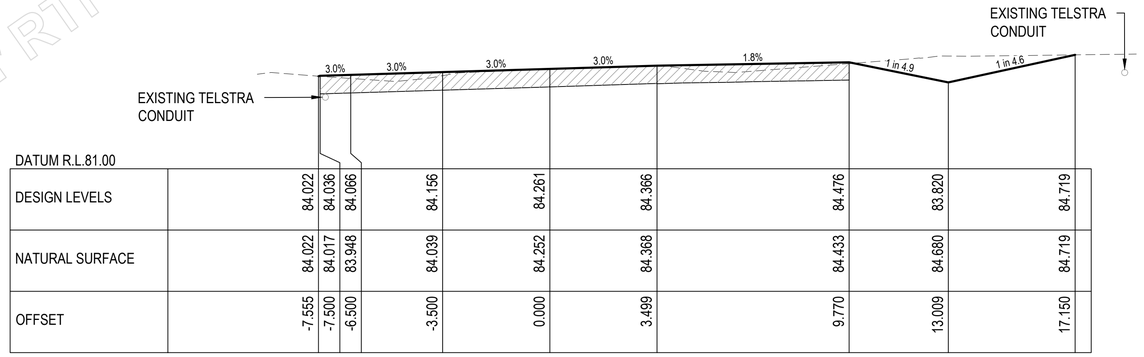
CH 160



DATUM R.L.82.00

DESIGN LEVELS	84.256	84.415	84.445	84.472	84.577	84.602	84.579	84.549	84.070	84.508
NATURAL SURFACE	84.256	84.301	84.415	84.490	84.575	84.562	84.448	84.312	84.338	84.508
OFFSET	-6.018	-5.382	-4.382	-3.500	0.000	3.500	4.241	5.241	7.158	8.909

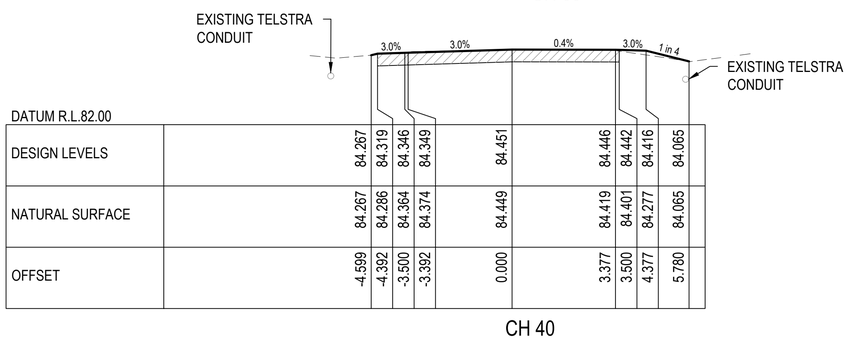
CH 60



DATUM R.L.81.00

DESIGN LEVELS	84.022	84.036	84.066	84.156	84.261	84.366	84.476	83.820	84.719
NATURAL SURFACE	84.022	84.017	83.948	84.039	84.252	84.368	84.433	84.680	84.719
OFFSET	-7.555	-7.500	-6.500	-3.500	0.000	3.499	9.770	13.009	17.150

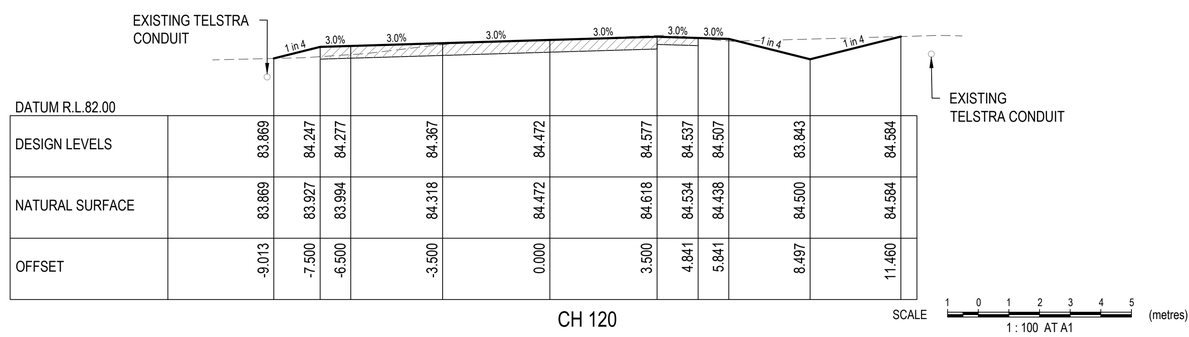
CH 140



DATUM R.L.82.00

DESIGN LEVELS	84.267	84.319	84.346	84.349	84.451	84.446	84.442	84.416	84.065
NATURAL SURFACE	84.267	84.286	84.364	84.374	84.449	84.419	84.401	84.277	84.065
OFFSET	-4.599	-4.392	-3.500	-3.392	0.000	3.377	3.500	4.377	5.780

CH 40



DATUM R.L.82.00

DESIGN LEVELS	83.869	84.247	84.277	84.367	84.472	84.577	84.537	84.507	83.843	84.584
NATURAL SURFACE	83.869	83.927	83.994	84.318	84.472	84.618	84.534	84.438	84.500	84.584
OFFSET	-9.013	-7.500	-6.500	-3.500	0.000	3.500	4.841	5.841	8.497	11.460

CH 120

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 AT A1

TMR REVIEW

Released under RTI - DTMR

FILENAME N:\QTV\T Vallman Ltd Co\052 - SUB\SUB025\SUB025001 (MEA22023) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C865 ROSEWOOD WARRILL CROSS SECTIONS.dwg

PLOTTED 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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ENGINEERS - PROJECT MANAGERS
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ACN - 671 130 843
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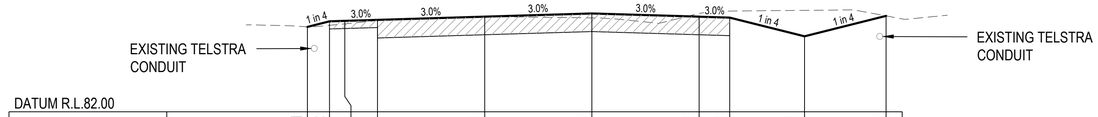
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 1 OF 3

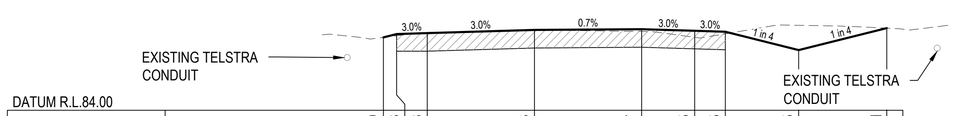
DEVEL. APPLIC. No. :
DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C865
VERSION: E



DATUM R.L.82.00

DESIGN LEVELS	84.771	84.952	84.967	84.999	85.104	85.209	85.104	85.074	84.463	85.129
NATURAL SURFACE	84.771	84.823	84.871	84.980	85.095	85.064	85.207	85.288	85.310	85.129
OFFSET	-5.789	-5.067	-4.567	-3.500	0.000	3.500	7.000	8.000	10.442	13.105

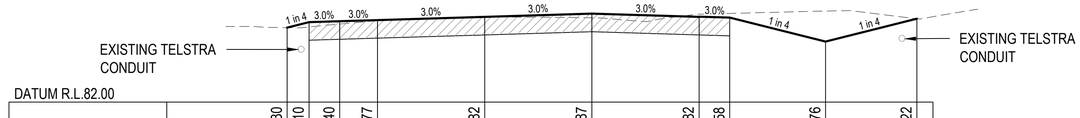
CH 260



DATUM R.L.84.00

DESIGN LEVELS	86.380	86.488	86.518	86.623	86.647	86.595	86.565	85.965	86.681
NATURAL SURFACE	86.380	86.433	86.535	86.621	86.573	86.383	86.496	86.773	86.681
OFFSET	-4.932	-4.500	-3.500	0.000	3.500	5.231	6.231	8.625	11.502

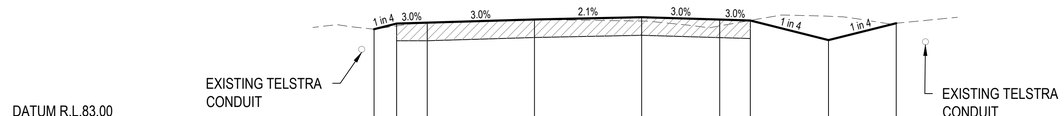
CH 340



DATUM R.L.82.00

DESIGN LEVELS	84.430	84.610	84.640	84.677	84.782	84.887	84.782	84.758	83.976	84.722
NATURAL SURFACE	84.430	84.451	84.547	84.652	84.774	84.751	84.869	84.894	84.972	84.722
OFFSET	-6.451	-5.733	-4.733	-3.500	0.000	3.500	7.000	8.000	11.127	14.110

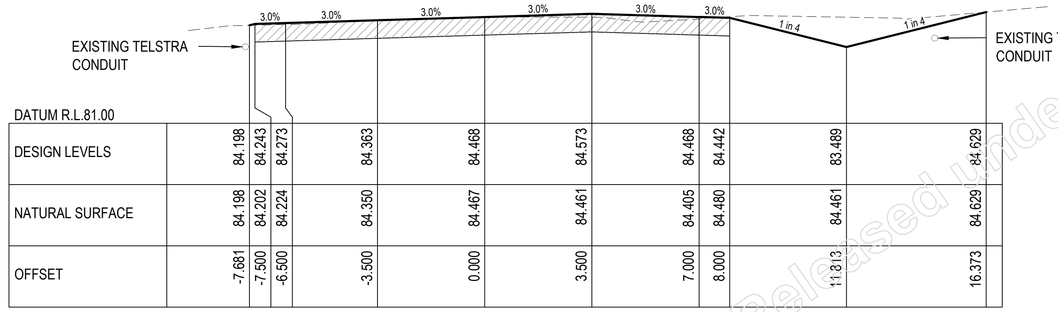
CH 240



DATUM R.L.83.00

DESIGN LEVELS	85.943	86.126	86.156	86.261	86.334	86.258	86.227	85.588	86.139
NATURAL SURFACE	85.943	86.049	86.167	86.259	86.209	86.051	86.230	86.367	86.139
OFFSET	-5.235	-4.500	-3.500	0.000	3.500	6.047	7.048	9.600	11.812

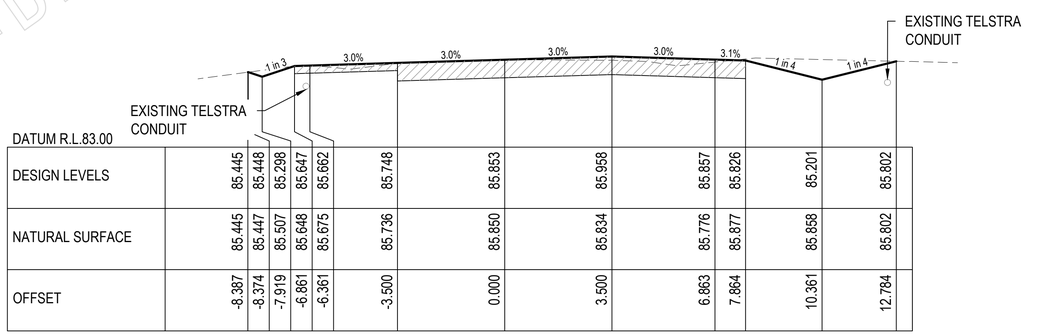
CH 320



DATUM R.L.81.00

DESIGN LEVELS	84.198	84.243	84.273	84.363	84.468	84.573	84.468	84.442	83.489	84.629
NATURAL SURFACE	84.198	84.202	84.224	84.350	84.467	84.461	84.405	84.480	84.461	84.629
OFFSET	-7.681	-7.500	-6.500	-3.500	0.000	3.500	7.000	8.000	11.813	16.373

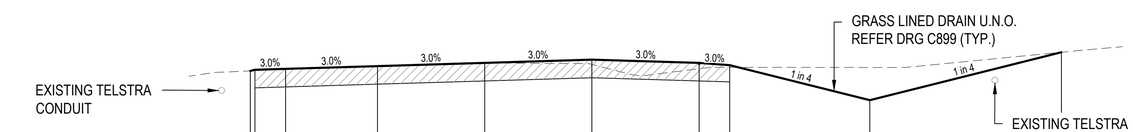
CH 220



DATUM R.L.83.00

DESIGN LEVELS	85.445	85.448	85.298	85.647	85.662	85.748	85.853	85.958	85.857	85.826	85.201	85.802
NATURAL SURFACE	85.445	85.447	85.507	85.648	85.675	85.736	85.850	85.834	85.776	85.877	85.868	85.802
OFFSET	-8.387	-8.374	-7.919	-6.861	-6.361	-3.500	0.000	3.500	6.863	7.864	10.361	12.784

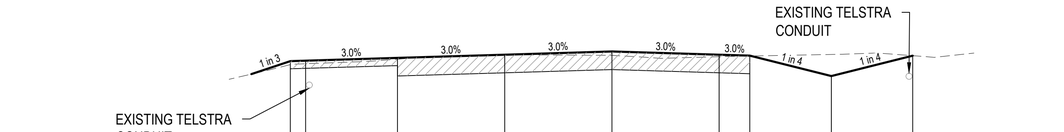
CH 300



DATUM R.L.81.00

DESIGN LEVELS	83.932	83.971	84.001	84.091	84.196	84.301	84.196	84.123	82.979	84.543
NATURAL SURFACE	83.932	83.939	83.982	84.105	84.197	84.145	84.006	84.051	84.046	84.543
OFFSET	-7.654	-7.500	-6.500	-3.500	0.000	3.500	7.000	8.000	12.574	18.829

CH 200



DATUM R.L.82.00

DESIGN LEVELS	85.253	85.268	85.358	85.463	85.568	85.463	85.433	84.767	85.431
NATURAL SURFACE	85.137	85.167	85.316	85.457	85.440	85.398	85.420	85.471	85.431
OFFSET	-7.000	-6.500	-3.500	0.000	3.500	7.000	8.000	10.663	13.320

CH 280

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 AT A1

TMR REVIEW

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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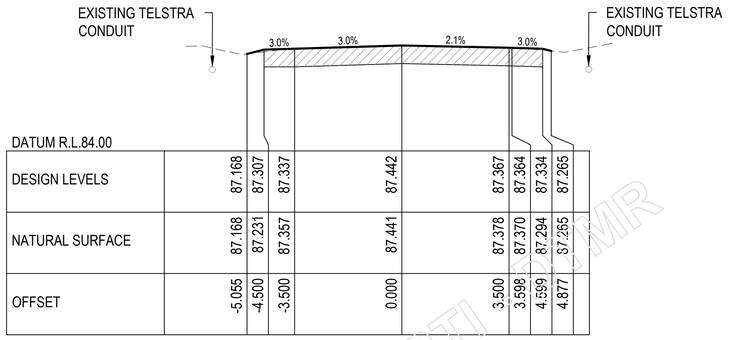
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN: 671 139 843
M: N/R
E: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE
ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 2 OF 3

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C866 / VERSION: E

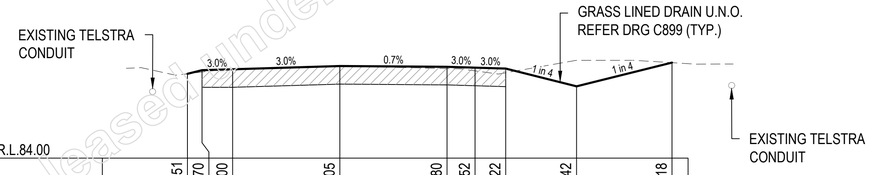
FILENAME: N:\QTNGT Vietnam Ltd (a\VDS - SUBS\SUBTS\SUB025004 (NF422023) Mt Walker Quarry Access Rds\03. Civil\01 DA\Rev A\02. AutoCAD\895 ROSEWOOD WARRILL CROSS SECTIONS.dwg
PLOTTED: 13 Aug 2025



DATUM R.L.84.00

DESIGN LEVELS	87.168	87.307	87.337	87.442	87.367	87.364	87.334	87.265
NATURAL SURFACE	87.168	87.231	87.357	87.441	87.378	87.370	87.294	87.265
OFFSET	-5.055	-4.500	-3.500	0.000	3.500	3.598	4.599	4.877

CH 380



DATUM R.L.84.00

DESIGN LEVELS	86.751	86.870	86.900	87.005	86.980	86.952	86.922	86.342	87.118
NATURAL SURFACE	86.751	86.809	86.917	87.004	86.922	86.847	86.785	87.191	87.114
OFFSET	-4.975	-4.500	-3.500	0.000	3.500	4.414	5.415	7.729	10.844

CH 360

Released under RTI by TMR

TMR REVIEW

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 AT A1

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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ACN - 074 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

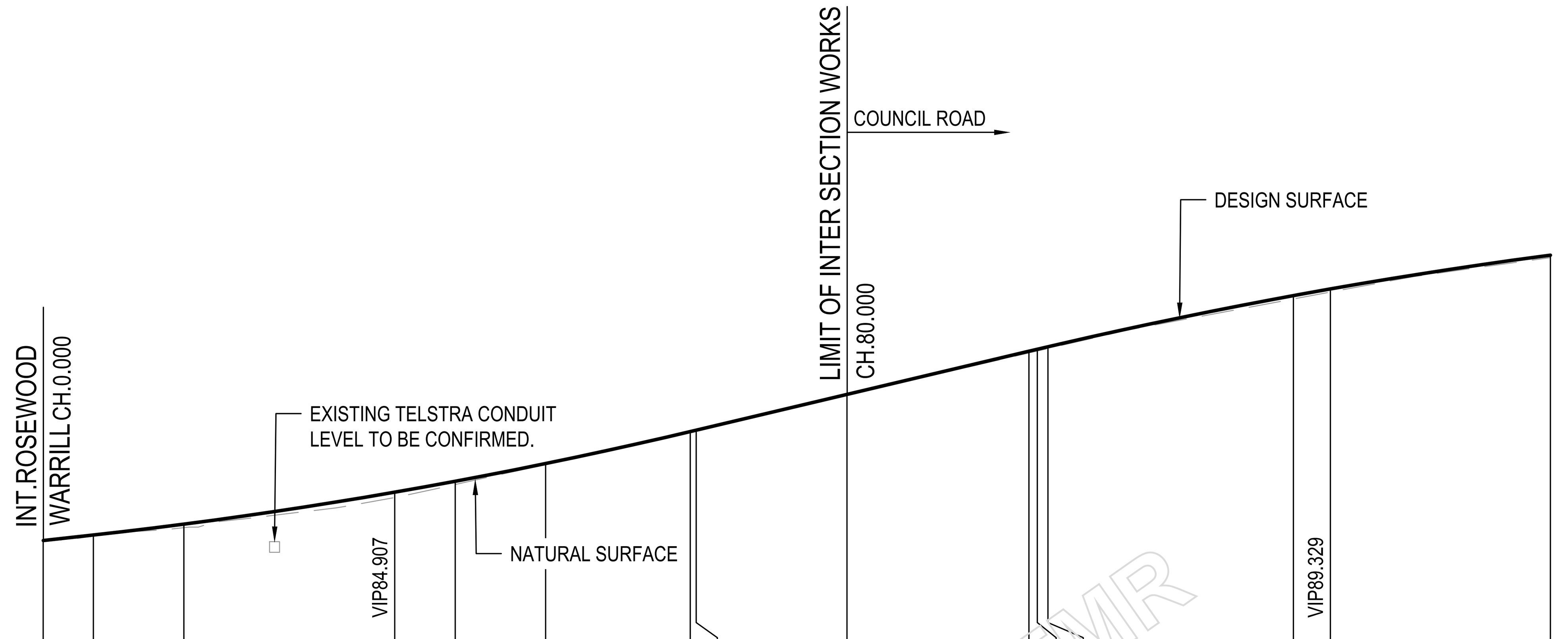
DRAWING TITLE :
ROSEWOOD-WARRILL VIEW ROAD CROSS SECTIONS SHEET 3 OF 3

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C867	VERSION: E

FILENAME N:\QT\QT Vietnam Ltd GA\GS2 - SUB1\SUB125\SUB125001 (RFA22023) MT Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C865 ROSEWOOD WARRILL CROSS SECTIONS.dwg
PLOTTED: 13 Aug 2025



DATUM R.L. 82.00

GRADE: 2.21 % | 4.75 % | 2.29 %

LENGTH: VC 60.0 23.63 K | VC 60.0 24.42 K

HORIZIONTAL ALIGNMENT ARC LENGTHS: 27.02m -150.00m | 34.54m 450.00m | 165.92m 450.00m

CUT/FILL		0.020	0.070	0.110	0.064	0.020	-0.011	-0.011	0.002	0.033	0.034	0.035	0.068	0.062	0.050
DESIGN CENTRELINE		84.244	84.461	85.098	85.315	85.667	86.304	86.332	87.048	87.904	87.944	87.993	89.012	89.144	89.817
NATURAL SURFACE	84.133	84.225	84.391	84.987	85.251	85.647	86.315	86.343	87.046	87.871	87.909	87.958	88.944	89.083	89.767
CHAINAGE	0.000	4.987	13.995	34.987	41.012	50.000	64.400	64.987	80.000	98.108	98.941	100.000	124.427	128.108	150.000

CHRISTENSEN ROAD LONGITUDINAL SECTION

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (meters)
HORIZONTAL SCALE 5 0 5 10 15 20 25 1:500 (meters)
(FULL SIZE)

Released under RTI - DTMR

TMR REVIEW

FILENAME: N:\QT\QT Vietnam Ltd Co\OS2 - SUB1\SUB125\SUB125004 (NFA22023) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C864 ROSEWOOD WARRILL LONG SECTION.dwg

PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
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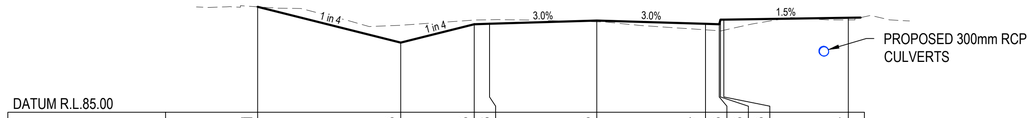
SOUTHPORT PARK QLD 4215
AC
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

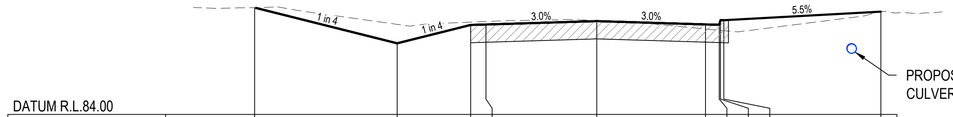
DRAWING TITLE :
CHRISTENSEN ROAD LONGITUDINAL SECTION

DEVEL. APPLIC. No. :
DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C868
VERSION: E



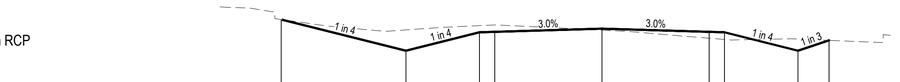
DATUM R.L.85.00								
DESIGN LEVELS	88.441	87.273	87.873	87.888	87.993	87.887	87.873	88.023	88.023	88.084
NATURAL SURFACE	88.441	87.840	88.009	88.019	87.954	87.691	87.661	87.659	87.677	88.015
OFFSET	-11.072	-6.400	-4.000	-3.500	0.000	3.550	4.000	4.040	4.150	8.215

CH 100



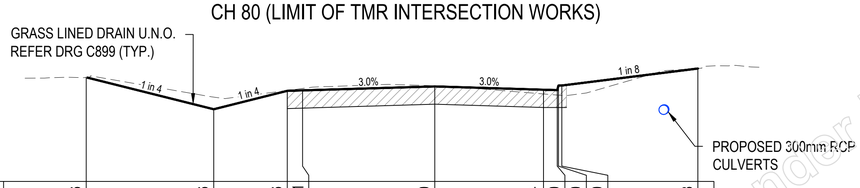
DATUM R.L.84.00									
DESIGN LEVELS	87.485	86.321	86.921	86.936	87.044	86.938	86.924	87.074	87.074	87.355
NATURAL SURFACE	87.485	86.939	87.012	87.032	87.064	86.788	86.746	86.743	86.734	87.355
OFFSET	-11.170	-6.515	-4.115	-3.615	0.000	3.550	4.000	4.040	4.150	9.277

CH 80 (LIMIT OF TMR INTERSECTION WORKS)



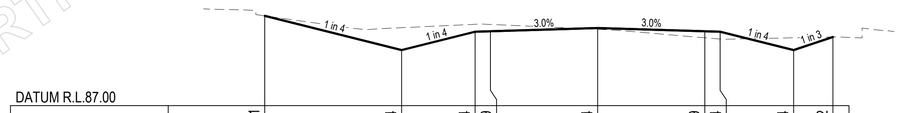
DATUM R.L.87.00									
DESIGN LEVELS	90.116	89.097	89.697	89.712	89.817	89.712	89.697	89.097	89.435
NATURAL SURFACE	90.116	89.776	89.915	89.938	89.770	89.504	89.464	89.478	89.435
OFFSET	-10.472	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.413

CH 150



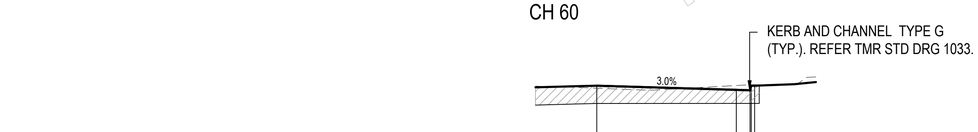
DATUM R.L.83.00									
DESIGN LEVELS	86.396	85.356	85.956	85.971	86.100	85.994	85.980	86.130	86.130	86.688
NATURAL SURFACE	86.396	85.751	85.969	86.035	86.123	85.855	85.818	85.815	85.806	86.688
OFFSET	-11.377	-7.215	-4.815	-4.315	0.000	3.550	4.000	4.040	4.150	8.591

CH 60



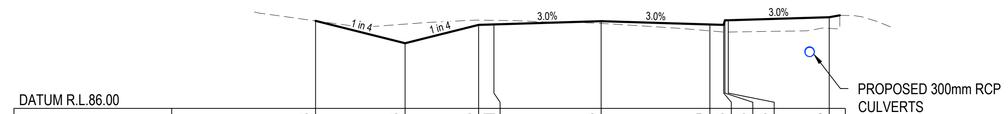
DATUM R.L.87.00									
DESIGN LEVELS	89.931	88.814	89.414	89.429	89.534	89.429	89.414	88.814	89.242
NATURAL SURFACE	89.931	89.545	89.656	89.651	89.491	89.215	89.174	89.215	89.242
OFFSET	-10.868	-6.400	-4.000	-3.500	0.000	3.500	4.000	6.400	7.683

CH 140



DATUM R.L.82.00						
DESIGN LEVELS	84.738	84.601	84.587	84.737	84.737	
NATURAL SURFACE	84.656	84.743	84.764	84.765	84.767	
OFFSET	0.000	4.556	5.006	5.046	5.156	

CH 23.89



DATUM R.L.86.00									
DESIGN LEVELS	88.856	88.126	88.726	88.741	88.846	88.739	88.726	88.876	88.876	88.975
NATURAL SURFACE	88.856	88.750	88.880	88.874	88.772	88.530	88.492	88.490	88.491	88.611
OFFSET	-9.323	-6.400	-4.000	-3.500	0.000	3.550	4.000	4.040	4.150	7.447

CH 120

SCALE 1 0 1 2 3 4 5 (metres)
1 : 100 AT A1

TMR REVIEW

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DESIGN REVIEW	NF	23.12.24

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ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
AC N/R
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

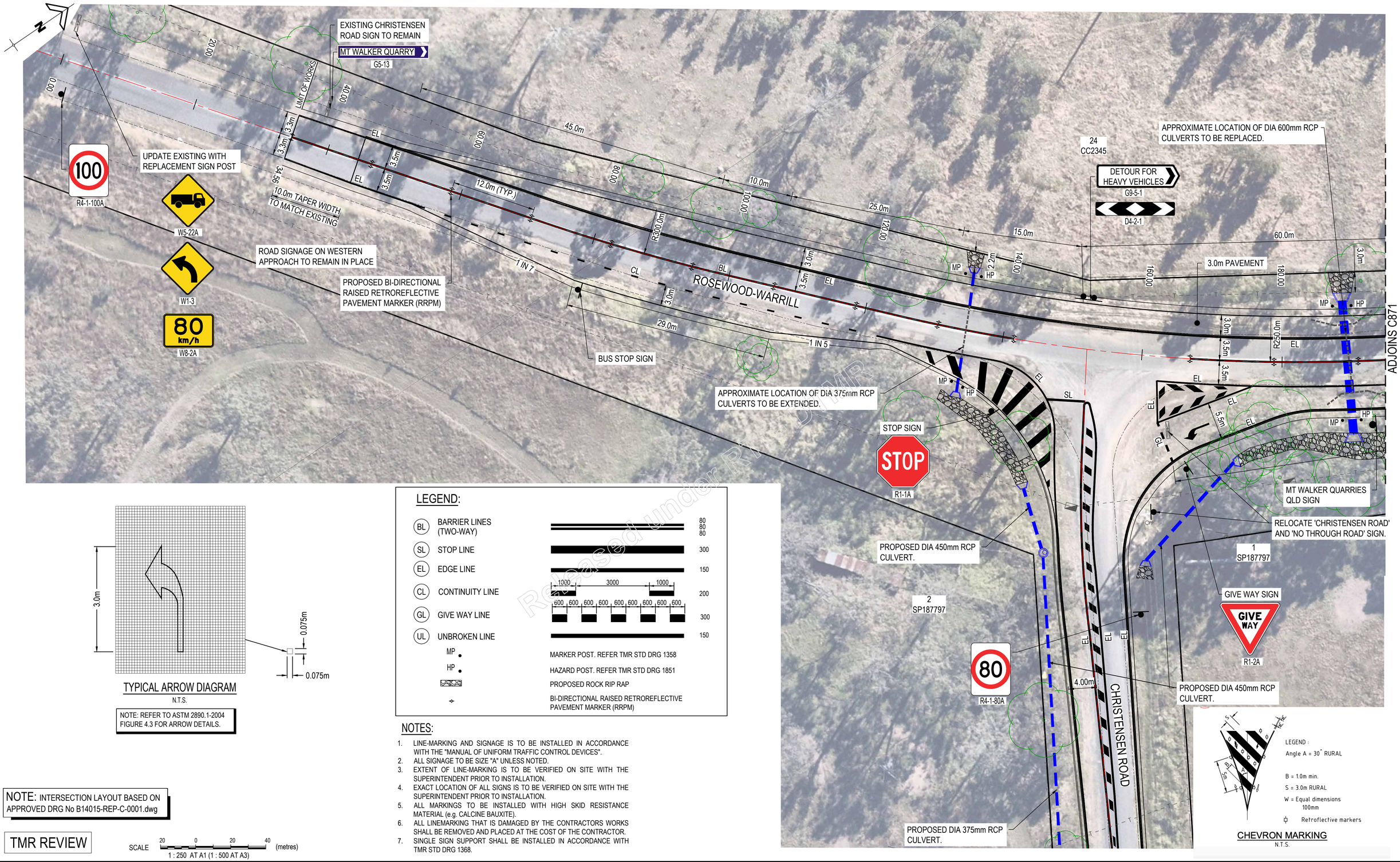
DRAWING TITLE :
CHRISTENSEN ROAD CROSS SECTIONS

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C869	VERSION: C

FILENAME N:\QT\QT Valmon Ltd Co\052 - SUB1\SUB1QS\SUB1DSGN\ (NFA220203) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C869 ROSEWOOD WARRILL CROSS SECTIONS.dwg
PLOTTED 13 Aug 2025



TYPICAL ARROW DIAGRAM
N.T.S.

NOTE: REFER TO ASTM 2890.1-2004 FIGURE 4.3 FOR ARROW DETAILS.

LEGEND:

BL	BARRIER LINES (TWO-WAY)	80 80 80
SL	STOP LINE	300
EL	EDGE LINE	150
CL	CONTINUITY LINE	1000 / 3000 / 1000 — 200
GL	GIVE WAY LINE	600 gaps — 300
UL	UNBROKEN LINE	150
MP	MARKER POST. REFER TMR STD DRG 1358	
HP	HAZARD POST. REFER TMR STD DRG 1851	
	PROPOSED ROCK RIP RAP	
	BI-DIRECTIONAL RAISED RETROREFLECTIVE PAVEMENT MARKER (RRPM)	

NOTES:

1. LINE-MARKING AND SIGNAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. ALL SIGNAGE TO BE SIZE "A" UNLESS NOTED.
3. EXTENT OF LINE-MARKING IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
4. EXACT LOCATION OF ALL SIGNS IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
5. ALL MARKINGS TO BE INSTALLED WITH HIGH SKID RESISTANCE MATERIAL (e.g. CALCINE BAUXITE).
6. ALL LINEMARKING THAT IS DAMAGED BY THE CONTRACTORS WORKS SHALL BE REMOVED AND PLACED AT THE COST OF THE CONTRACTOR.
7. SINGLE SIGN SUPPORT SHALL BE INSTALLED IN ACCORDANCE WITH TMR STD DRG 1368.

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

TMR REVIEW

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

Released under RTI Act

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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PO BOX 7217
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ACN - 874 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

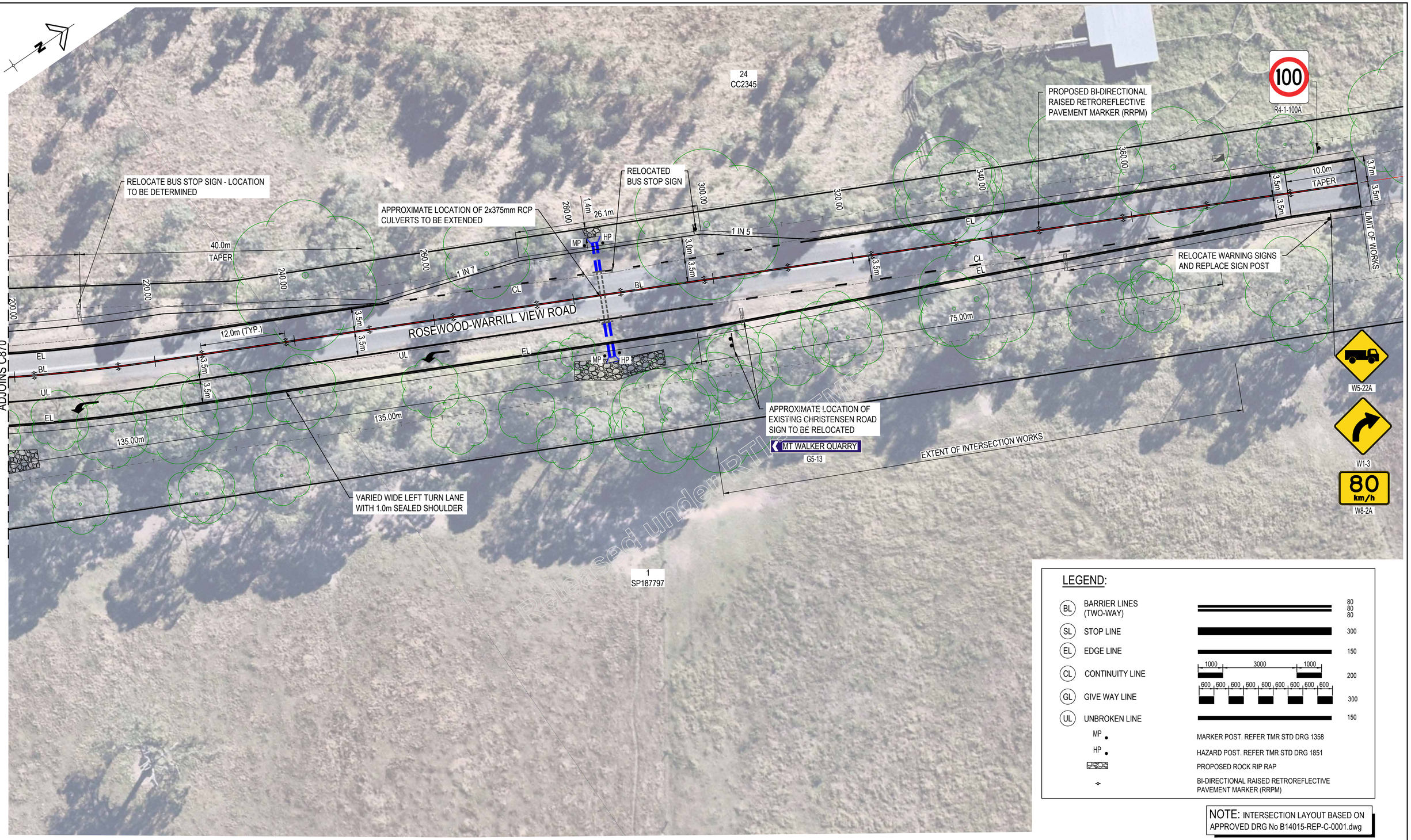
DRAWING TITLE :
INTERSECTION SIGNAGE LAYOUT PLAN SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C870	VERSION: E

FILENAME: N:\QTGT Vietnam Ltd Co\052 - SUBN\SUB025\SUB025000_INF\422023\ Mt Walker Quarry Access Rd\03_Civil\01_DIA\Rev A\02_Acad\C870 INTERSECTION SIGNAGE LAYOUT PLAN.dwg
PLOTTED: 13 Aug 2025



Released under RTI

LEGEND:

BL	BARRIER LINES (TWO-WAY)	80 80 80
SL	STOP LINE	300
EL	EDGE LINE	150
CL	CONTINUITY LINE	1000 3000 1000 / 200
GL	GIVE WAY LINE	600 600 600 600 600 600 600 600 / 300
UL	UNBROKEN LINE	150
MP	MARKER POST. REFER TMR STD DRG 1358	
HP	HAZARD POST. REFER TMR STD DRG 1851	
	PROPOSED ROCK RIP RAP	
	BI-DIRECTIONAL RAISED RETROREFLECTIVE PAVEMENT MARKER (RRPM)	

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

FILENAME: N:\QTNQT Vathaun Ltd CA\052 - SUBN\SUB\25\SUB\3500\A (WF#22023) Mt Walker Quarry Access Rd\03. Civil\01. DA\Dwg A\02. Acad\C870 INTERSECTION SIGNAGE LAYOUT PLAN.dwg

PLOTTED: 13 Aug 2025

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION SIGNAGE LAYOUT PLAN SHEET 2 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C871	VERSION: E

REFER KEY-IN DETAIL

N

40.00

60.00

80.00

100.00

120.00

140.00

160.00

180.00

200.00

220.00

34.56

LIMIT OF TMR INTERSECTION WORKS

3.5m

3.5m

ROSEWOOD-WARRILL

24
CC2345

ADJOINS C876

3.0m

3.5m

0.00

3.8m

3.8m

5.5m

3.5m

3.5m

PRELIMINARY PAVEMENT PROFILES

FINAL PAVEMENT DESIGN SUBJECT TO 5 DAY SOAKED CBR TESTS AND GEOTECHNICAL INVESTIGATION REPORT OF THE COMPACTED SUBGRADE SPACING OF TEST LOCATIONS TO BE APPROVED BY DTMR.

APPROXIMATE LOCATION OF DIA 375mm RCP CULVERTS TO BE EXTENDED.

20.00

PROPOSED DIA 450mm RCP CULVERT.

APPROXIMATE LOCATION OF DIA 600mm RCP CULVERTS TO BE REPLACED.

PROPOSED DIA 450mm RCP CULVERT.

CHRISTENSEN ROAD

2
SP187797

1
SP187797

40.00

PROPOSED DIA 375mm RCP CULVERT.

4.00m

60.00

80.00

LIMIT OF TMR INTERSECTION WORKS

7/14mm TWO COAT SPRAY SEAL AND PRIMER

150mm TYPE 2.1

150mm TYPE 2.3

130mm CLASS A1 EMBANKMENT MATERIAL MIN CBR 15 TO MRT 504

130mm CLASS A1 EMBANKMENT MATERIAL MIN CBR 15 TO MRT 504

PAVEMENT TYPE 1

$7.3x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10

7/14mm TWO COAT SPRAY SEAL AND PRIMER

150mm TYPE 2.1

150mm TYPE 2.3

125 mm CLASS A1 EMBANKMENT MATERIAL MIN CBR 15 TO MRT 504

125 mm CLASS A1 EMBANKMENT MATERIAL MIN CBR 15 TO MRT 504

PAVEMENT TYPE 2

$6.9x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10

7/14mm TWO COAT SPRAY SEAL AND PRIMER

120mm TYPE 2.1

120 mm TYPE 2.3

180mm CLASS A1 EMBANKMENT MATERIAL MIN CBR 15 TO MRT 504

PAVEMENT TYPE 3

$3.63x10^5$ ESA, ASSUMED CBR 4%.
SCALE 1:10

7/14mm TWO COAT SPRAY SEAL AND PRIMER

120 mm TYPE 2.1

150 mm CLASS A1 EMBANKMENT MATERIAL MIN CBR 15 TO MRT 504

PAVEMENT TYPE 4 (BUS STOP)

$3.0x10^4$ ESA, ASSUMED CBR 4%.
SCALE 1:10

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- PP EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

Released under RTI - DTMR

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	11.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

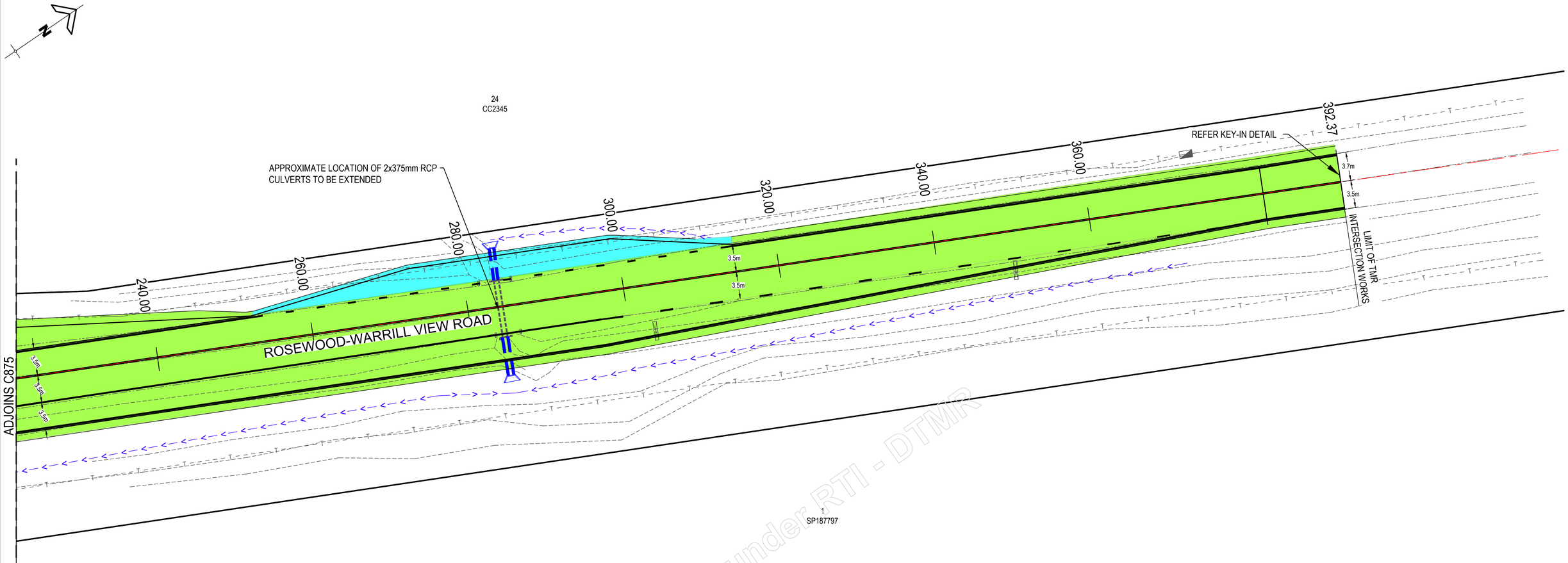
DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 1 OF 2

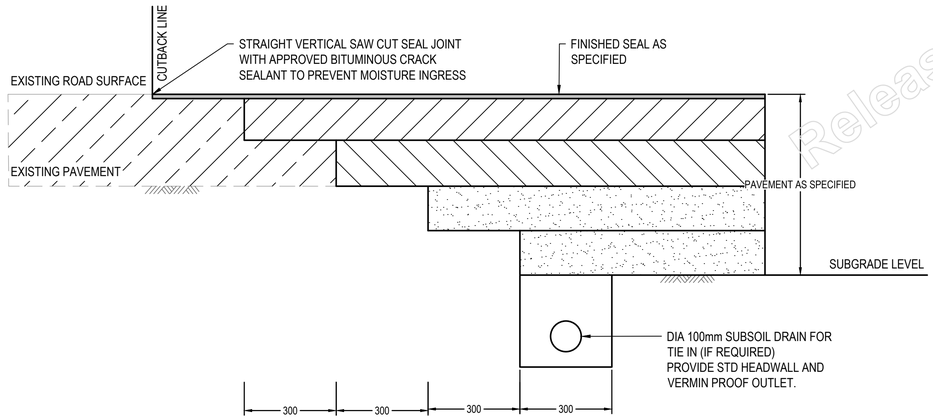
DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C875	VERSION: C

PLOTTED: 13 Aug 2025
FILENAME: N:\01\01 Vietnam Ltd (\052 - SUBS\SUB35\SUB25001 (NF\220223) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C875 PAVEMENT LAYOUT PLAN.dwg





PAVEMENT KEY-IN DETAIL

KEY IN BETWEEN PAVEMENT TYPES SIMILAR
SCALE 1:10

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: REFER TO DRG C875 FOR TYPICAL PAVEMENT PROFILES.

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	11.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 2 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPR. N/R EHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

SCALE :	DATUM :	FULL SIZE :
AS SHOWN	AHD	A1

PROJECT No.:	DRAWING No. :	VERSION:
210173P	C876	C

FILENAME: N:\QT\QT Valmon Ltd Co\QS2 - SUB1\SUB125\SUB7500L (MEA22023) Mt Walker Quarry Access Rd\03. Civil\01. DA\Dwg A\02. Acad\C875 PAVEMENT LAYOUT PLAN.dwg
PLOTTED: 13 Aug 2025

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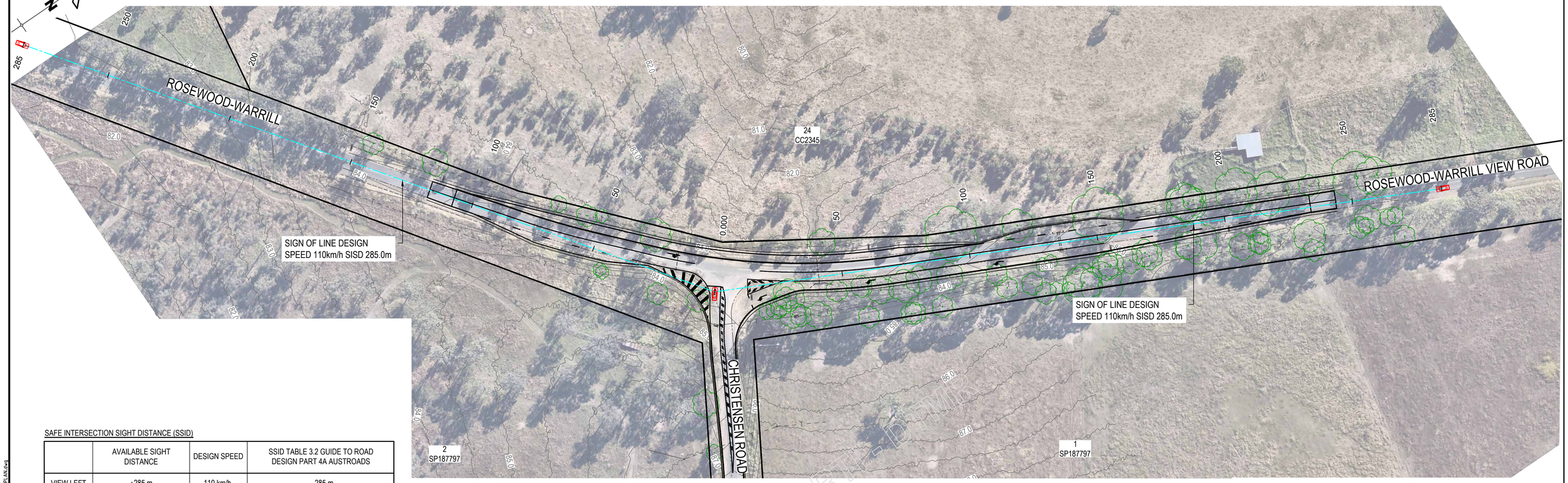
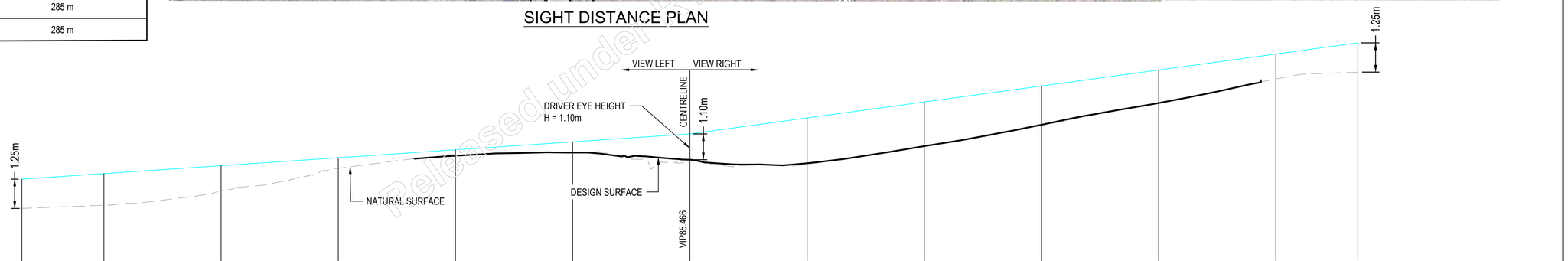


SAFE INTERSECTION SIGHT DISTANCE (SSID)

	AVAILABLE SIGHT DISTANCE	DESIGN SPEED	SSID TABLE 3.2 GUIDE TO ROAD DESIGN PART 4A AUSTROADS
VIEW LEFT	+285 m	110 km/h	285 m
VIEW RIGHT	+285 m	110 km/h	285 m

SIGHT DISTANCE PLAN



DATUM R.L. 80.00

GRADE				0.68 %				1.36 %				
LENGTH												
DEPTH	1.250	1.351	1.062	0.451	0.254	0.458	1.100	1.933	1.884	1.654	1.407	1.063	1.250
SIGHT LINE LEVELS	83.536	83.773	84.112	84.451	84.789	85.128	85.466	86.148	86.829	87.510	88.192	88.873	89.350
NATURAL SURFACE	82.286	82.422	83.050	83.999	84.536	84.684	84.304	84.171	84.923	85.824	86.759	87.811	88.100
CHAINAGE	285.000	250.000	200.000	150.000	100.000	50.000	0.000	50.000	100.000	150.000	200.000	250.000	285.000

SIGHT DISTANCE LONGITUDINAL SECTION

VERTICAL SCALE 1 0 1 2 3 4 5 1:100 (metres)
HORIZONTAL SCALE 10 0 10 20 30 40 50 1:1000 (metres) AT A1
SCALE 10 0 5 10 15 20 25 30 35 (metres) 1 : 750 AT A1

TMR REVIEW

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
A	TMR IR RESPONSE	NF	13.08.25

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AC N/R
M
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

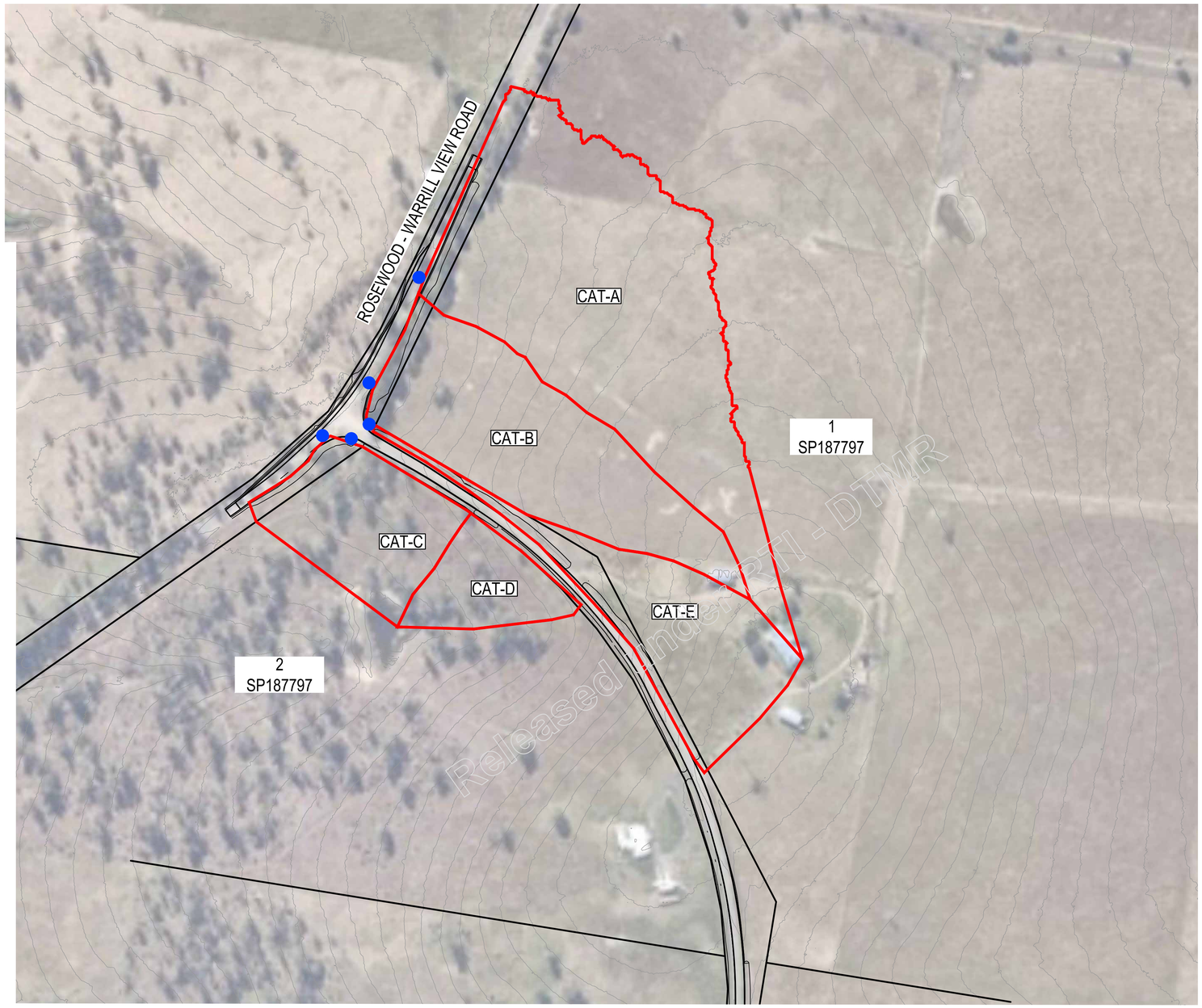
DRAWING TITLE :
INTERSECTION SIGHT LINE PLAN

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C880	VERSION: A

FILENAME: N:\GTNQT Vietnam Ltd Co\052 - SUB\SUBTS\SUB025\04 INF\220231 Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C880 INTERSECTION SIGHT LINE PLAN.dwg
PLOTTED: 13 Aug 2025



CATCHMENT TABLE

CATCHMENT	AREA (ha)
CAT-A	5.17
CAT-B	2.75
CAT-C	1.42
CAT-D	0.76
CAT-E	1.91

LEGEND

- ADJOINING PROPERTY BOUNDARY
- CATCHMENT BOUNDARY
- EXISTING MINOR CONTOUR
- 144.0 EXISTING MAJOR CONTOUR
- FUTURE CULVERT LOCATION

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
D	TMR IR RESPONSE	NF	13.08.25
C	TMR REVIEW	NF	25.03.25
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
CATCHMENT LAYOUT PLAN

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APP N/R EHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C890	VERSION: D

PLOTTED: 13 Aug 2025
FILENAME: N:\QT\QT Vietnam Ltd (JV)\052 - SUB\SUBTAS\SUB025001 MWA220231 Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C890 CATCHMENT LAYOUT PLAN FOR INTERSECTIONS.dwg

Released under RTI - DTMR

24
CC2345

ROSEWOOD-WARRILL

ADJOINS C892

ADJOINS RIGHT

ADJOINS LEFT

CHRISTENSEN ROAD

LIMIT OF TMR INTERSECTION WORKS

APPROXIMATE LOCATION OF DIA 375mm RCP CULVERTS TO BE EXTENDED.

PROPOSED DIA 375mm RCP CULVERT.

PROPOSED DIA 450mm RCP CULVERT.

PROPOSED DIA 450mm RCP CULVERT.

APPROXIMATE LOCATION OF DIA 600mm RCP CULVERTS TO BE REPLACED WITH 1200x600 RCBC CULVERT.

2
SP187797

1
SP187797

LEGEND

- EXISTING CONTOUR
- PROPOSED ROAD CENTRELINE
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- PROPOSED DRAIN
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED ROCK RIP RAP

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONESE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
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PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN: 671 139 843
M: N/R
E: N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER LAYOUT PLAN SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES. N/R	RPEQ No. :
SCALE : AS SHOWN	DATUM : AHD / FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C891 / VERSION: C

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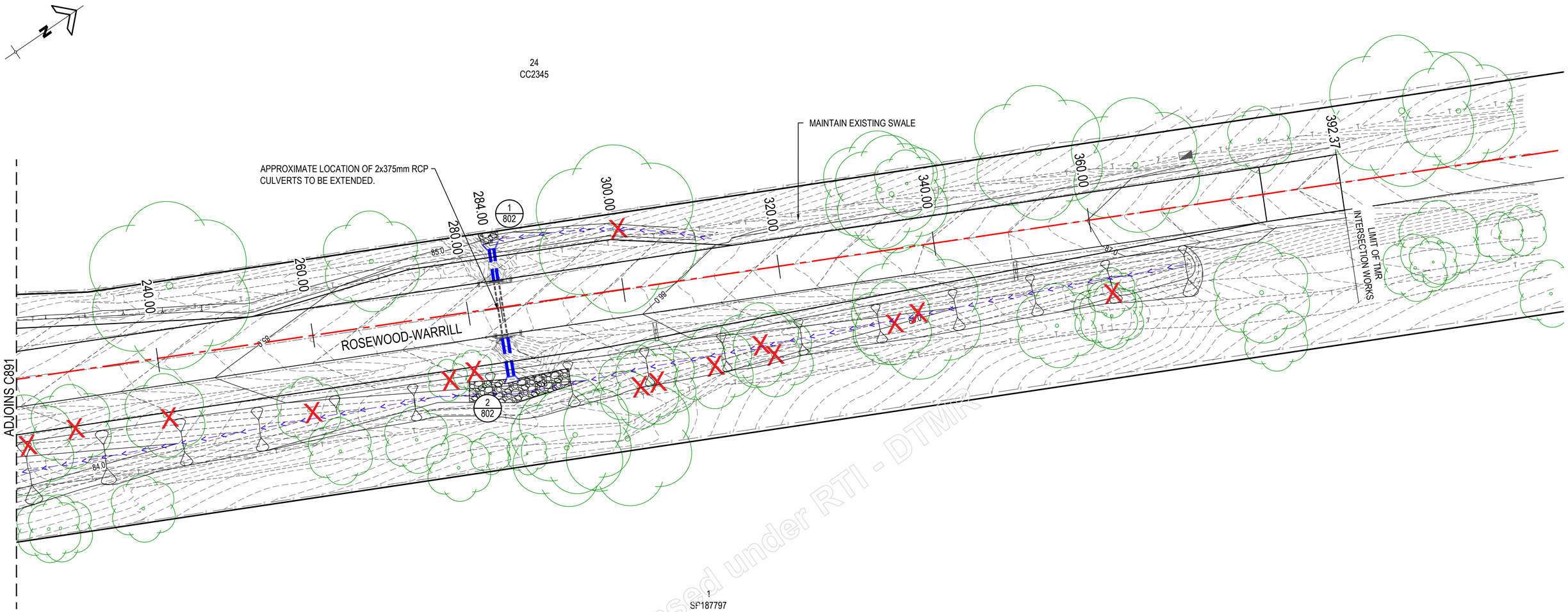
24
CC2345



1
SP187797

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LEGEND

- EXISTING CONTOUR (90.00)
- DESIGN MINOR CONTOUR
- DESIGN MAJOR CONTOUR (90.00)
- PROPOSED ROAD CENTRELINE
- PROPOSED DRAIN
- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE (PP)
- EXISTING EDGE OF BITUMEN
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED ROCK RIP RAP

TMR REVIEW

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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M N/R
E N/R nigelfletcherassociates.com.au

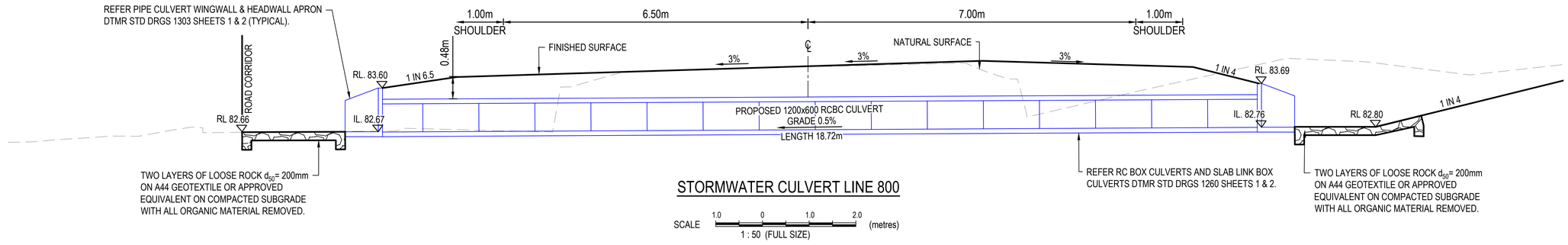
PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER LAYOUT PLAN SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

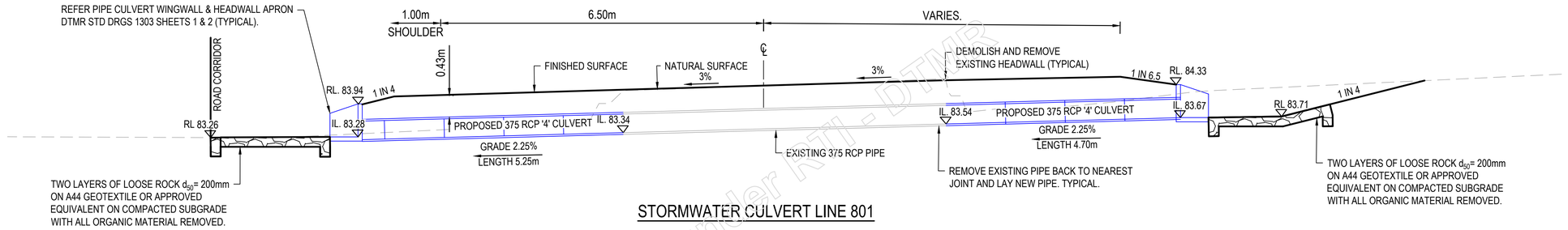
APPR N/R on behalf of NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C892	VERSION: C



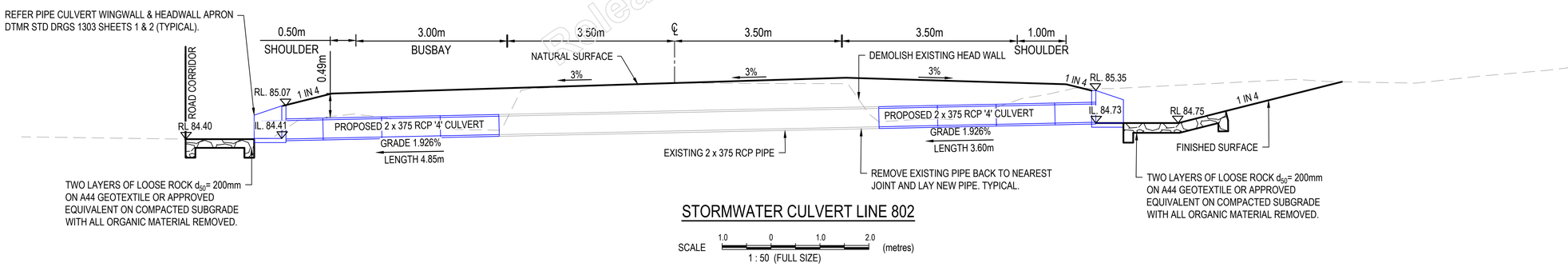
STORMWATER CULVERT LINE 800

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



STORMWATER CULVERT LINE 801

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



STORMWATER CULVERT LINE 802

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

TMR REVIEW

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VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

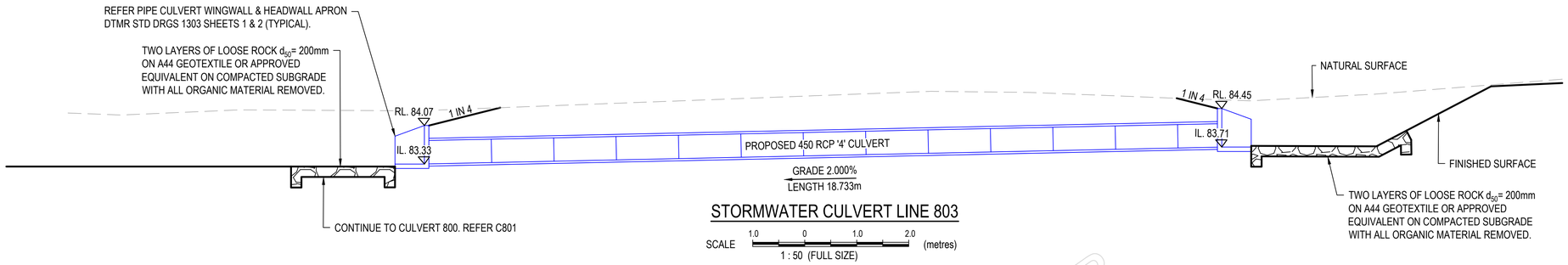
DRAWING TITLE :
STORMWATER CULVERT SECTIONS SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

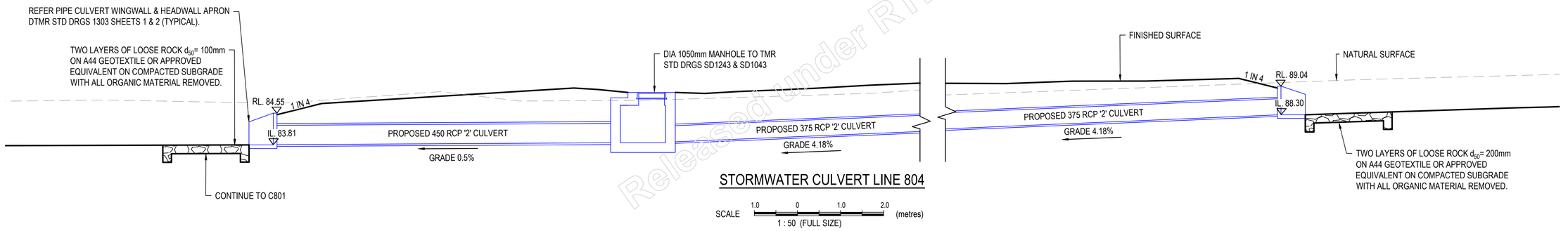
SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C895	VERSION: E

PLOTTED: 13 Aug 2025
FILENAME: N:\QTLGT Valhalla Ltd Co\052 - SUBN\SUB125\SUB9250\4- INF\220203 MT Walker Quarry Access Rd\03- Civil\01- DA\Rev A\02- Acad\C895 ROSEWOOD WARRILL SECTIONS.dwg



STORMWATER CULVERT LINE 803

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)



STORMWATER CULVERT LINE 804

SCALE 1.0 0 1.0 2.0 (metres)
1 : 50 (FULL SIZE)

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TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
E	TMR IR RESPONSE	NF	13.08.25
D	TMR REVIEW	NF	25.03.25
C	DETAIL DESIGN	NF	23.12.24
B	DETAIL DESIGN REVIEW	NF	27.09.24
A	FUNCTION DESIGN REVIEW	NF	15.07.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER CULVERT SECTIONS SHEET 2 OF 2

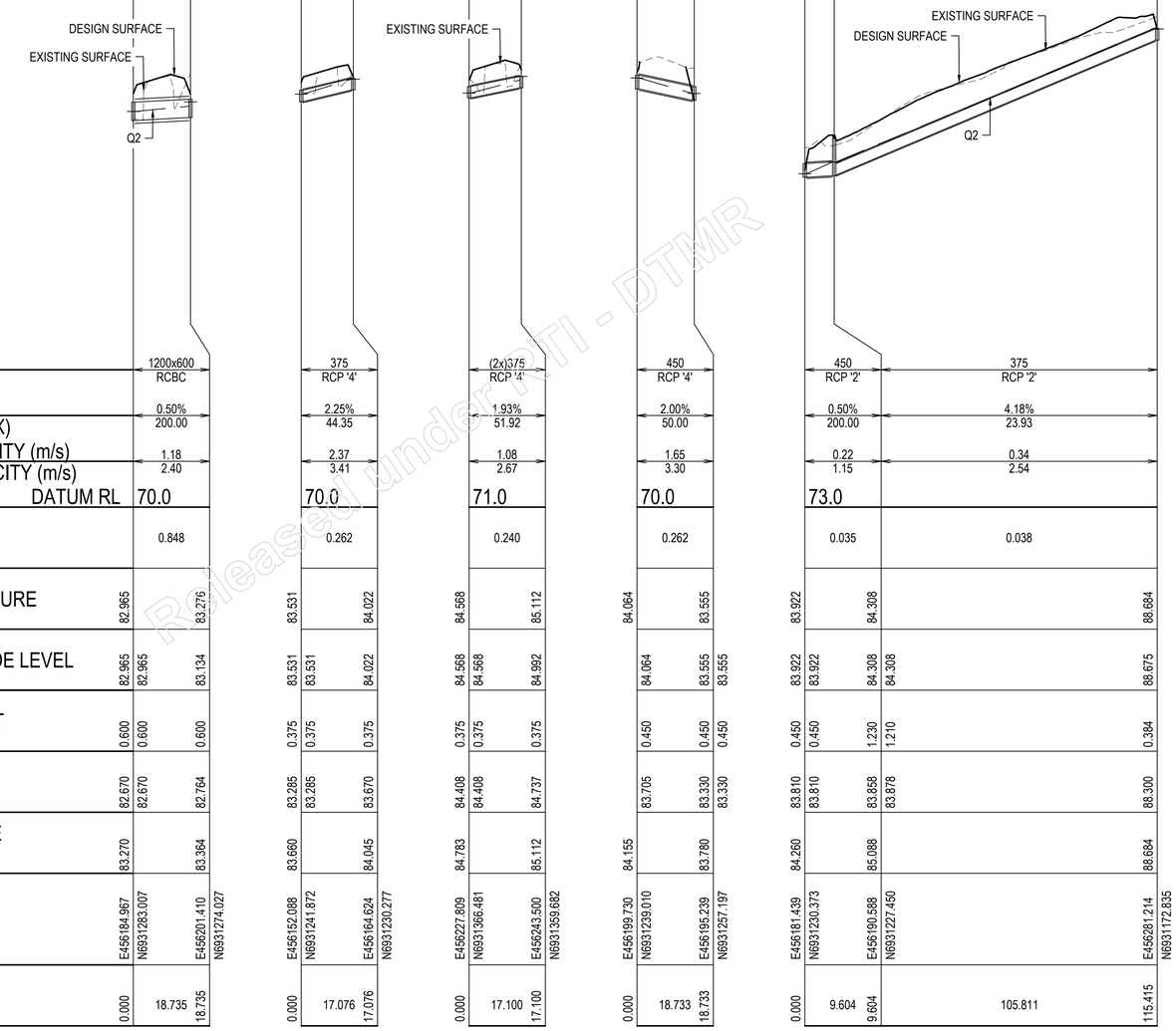
DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C896	VERSION: E

FILENAME N:\QTQT Vietnam Ltd Co\052 - SUBS\SUB025\SUB025001 INF4220220 Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C895 ROSEWOOD WARRILL SECTIONS.dwg
PLOTTED: 13 Aug 2025

STRUCTURE NAME	800/1	800/2	801/1	801/2	802/1	802/2	803/1	803/2	804/1	804/2	804/3
STRUCTURE DESCRIPTION	HEADWALL	HEADWALL	HEADWALL	HEADWALL	HEADWALL	HEADWALL	HEADWALL	HEADWALL	HEADWALL	1050DIA MANHOLE CLASS B SOLID COVER	HEADWALL
PIPE SIZE (mm)		1200x600 RCBC		375 RCP '4'		(2x)375 RCP '4'		450 RCP '4'		450 RCP '2'	375 RCP '2'
PIPE CLASS											
PIPE GRADE (%)		0.50%		2.25%		1.93%		2.00%		0.50%	4.18%
PIPE SLOPE (1 in X)		200.00		44.35		51.92		50.00		200.00	23.93
FULL PIPE VELOCITY (m/s)		1.18		2.37		1.08		1.65		0.22	0.34
PART FULL VELOCITY (m/s)		2.40		3.41		2.67		3.30		1.15	2.54
DATUM RL	70.0		70.0		71.0		70.0		73.0		
PIPE FLOW (Cumecs)		0.848		0.262		0.240		0.262		0.035	0.038
W.S.E. IN STRUCTURE	82.965	83.276	83.531	84.022	84.568	85.112	84.064	83.555	83.922	84.308	88.684
HYDRAULIC GRADE LEVEL	82.965	83.134	83.531	84.022	84.568	84.992	84.064	83.555	83.922	84.308	88.675
DEPTH TO INVERT	0.600	0.600	0.375	0.375	0.375	0.375	0.450	0.450	0.450	1.230	0.384
INVERT LEVEL OF DRAIN	82.670	82.764	83.285	83.670	84.408	84.737	83.705	83.330	83.810	83.858	88.300
DESIGN SURFACE LEVEL	83.270	83.364	83.660	84.045	84.783	85.112	84.155	83.780	84.260	85.088	88.684
SETOUT COORDINATES	E456184.967 N6931283.007	E456201.410 N6931274.027	E456152.088 N6931241.872	E456164.624 N6931230.277	E456227.809 N6931366.481	E456243.500 N6931359.682	E456199.730 N6931239.010	E456195.239 N6931257.197	E456181.439 N6931230.373	E456190.588 N6931227.450	E456281.214 N6931172.835
CHAINAGE	0.000	18.735 18.735	0.000	17.076 17.076	0.000	17.100 17.100	0.000	18.733 18.733	0.000	9.604 9.604	105.811 115.415
	LINE 800		LINE 801		LINE 802		LINE 803		LINE 804		



TMR REVIEW

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ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	23.03.25
A	DETAIL DESIGN	NF	23.12.24

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PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER LONGITUDINAL SECTIONS

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C897	VERSION: C

FILENAME: N:\GTQT Vietnam Ltd Co\052 - SUBS\SUB025\SUB025D4 INF4220231 Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C897 STORMWATER LONGITUDINAL SECTIONS.dwg
PLOTTED: 13 Aug 2025

	LOCATION		SUB-CATCHMENT RUNOFF							INLET DESIGN							DRAIN DESIGN												HEAD LOSSES						PART FULL		DESIGN LEVELS							
					Tc	I	A	CA	Qc	Qa				Qg	Qb		Tc	I	CA	Qrat	Q	L	S			Vf=Q/A	Qcap	Vcap	Vt		Vf²/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
	STRUCTURE No.	DRAIN SECTION	STORM EVENT	ARI EVENT	SUB-CATCHMENT TIME OF CONC.	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD XFALL AT INLET	INLET TYPE	INLET CURVE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C x A)	PEAK FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE SIZE	PIPE CLASS	FULL PIPE VELOCITY	CAPACITY FLOW	CAPACITY VELOCITY	TRAVEL VELOCITY	CHART(S) USED	VELOCITY HEAD	U/S HEAD LOSS COEFFICIENT	U/S HEAD LOSS	W.S.E COEFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEAD LOSS	NORMAL DEPTH	NORMAL DEPTH VEL.	PIPE U/S I.L	PIPE D/S I.L	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	GRATE LEVEL	STRUCTURE No.
				yrs	min	mm/h		ha	ha	L/s	L/s	%			L/s	L/s		min	mm/hr	ha	L/s	L/s	m	%	mm		m/s	L/s	m/s	m/s		m		m		m	%	m	m	m/s	m	m	m	m	m	m	
7	800/1		Minor	2									HW																														82.965	83.27	800/1
7			Major	50									HW																														83.27	83.27	
8	800/2	800/2 to 800/1	Minor	2	15	82	0.6	2.75	1.652	378	848		HW		848	0		15	82	1.652	378	848	18.735	0.5	1200x600	BC	1.18	2281	3.17	2		0.071	2	0.142		0.142	0.91	0.062	0.295	2.4	82.764	82.67	83.134	82.965	83.276	83.364	800/2
8		800/2 to 800/1	Major	50	15	177	0.76	2.75	2.093	1029	2723		HW		2723	0		15	177	2.093	1029	2723	18.735	0.5	1200x600	BC	3.78	2281	3.17	2		0.053	2	0.106		0.106	-0.07	0.013	0.6	3.78	82.764	82.67	83.257	83.27	83.364	83.364	
9	801/1		Minor	2									HW																														83.531	83.66	801/1
9			Major	50									HW																														83.66	83.66	
10	801/2	801/2 to 801/1	Minor	2	15	82	0.6	1.42	0.853	195	262		HW		262	0		15	82	0.853	195	262	17.076	2.25	375	4	2.37	344	3.11	2		0.287	0	0		0	2.88	0.198	0.246	3.41	83.67	83.285	84.022	83.531	84.022	84.045	801/2
10		801/2 to 801/1	Major	50	15	177	0.76	1.42	1.08	531	778		HW		778	0		15	177	1.08	531	778	17.076	2.25	375	4	7.05	344	3.11	2		0.494	0	0		0	2.25	0.385	0.375	7.05	83.67	83.285	84.045	83.66	84.045	84.045	
11	802/1		Minor	2									HW																														84.568	84.783	802/1
11			Major	50									HW																														84.568	84.783	
12	802/2	802/2 to 802/1	Minor	2	15	82	0.6	5.18	3.106	710	710		HW		240	470	800/2	15	82	3.106	710	240	17.667	1.93	(2x)375	4	1.08	635	2.88	2		0.06	2	0.12		0.12	2.46	0.187	0.16	2.67	84.748	84.408	85.003	84.568	85.123	85.123	802/2
12		802/2 to 802/1	Major	50	15	177	0.76	5.18	3.934	1934	1934		HW		240	1695	800/2	15	177	3.934	1934	240	17.667	1.93	(2x)375	4	1.08	635	2.88	2		0.06	2	0.12		0.12	2.46	0.187	0.16	2.67	84.748	84.408	85.003	84.568	85.123	85.123	
13	803/1	803/1 to 803/2	Minor	2	15	82	0.6	1.91	1.147	262	262		HW		262	0		15	82	1.147	262	262	18.733	2	450	4	1.65	526	3.31	2		0.139	0	0		0	2.72	0.144	0.225	3.3	83.705	83.33	84.064	83.555	84.064	84.155	803/1
13		803/1 to 803/2	Major	50	15	177	0.76	1.91	1.453	715	715		HW		715	0		15	177	1.453	715	715	18.733	2	450	4	4.49	526	3.31	2		0.559	0	0		0	2	0.375	0.45	4.49	83.705	83.33	84.155	83.78	84.155	84.155	
14	803/2		Minor	2									HW																														83.555	83.78	803/2
14			Major	50									HW																														83.78	83.78	
15	804/1		Minor	2									HW																														83.922	84.26	804/1
15			Major	50									HW																														83.915	84.26	
16	804/2	804/2 to 804/1	Minor	2									MH					15.88	80	0.458	102	35	9.604	0.5	450	2	0.22	263	1.65	2	T1/T2	0.003	0	0		0	4.02	0.321	0.112	1.15	83.858	83.81	84.308	83.922	84.308	85.088	804/2
16		804/2 to 804/1	Major	50									MH					15.88	173	0.58	279	31	9.604	0.5	450	2	0.2	263	1.65	2	T1/T2	0.002	0	0		0	4.09	0.332	0.105	1.11	83.858	83.81	84.308	83.915	84.308	85.088	
17	804/3	804/3 to 804/2	Minor	2	15	82	0.6	0.76	0.458	105	105		HW		38	67	801/2	15	82	0.458	105	38	105.811	4.18	375	2	0.34	466	4.22	2	Outlet Control	0.006	1.5	0.009		0.009	4.13	4.367	0.072	2.54	88.3	83.878	88.675	84.308	88.684	88.684	804/3
17		804/3 to 804/2	Major	50	15	177	0.76	0.76	0.58	285	285		HW		38	247	801/2	15	177	0.58	285	38	105.811	4.18	375	2	0.34	466	4.22	2	Outlet Control	0.006	1.5	0.009		0.009	4.13	4.367	0.072	2.54	88.3	83.878	88.675	84.308	88.684	88.684	

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	13.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

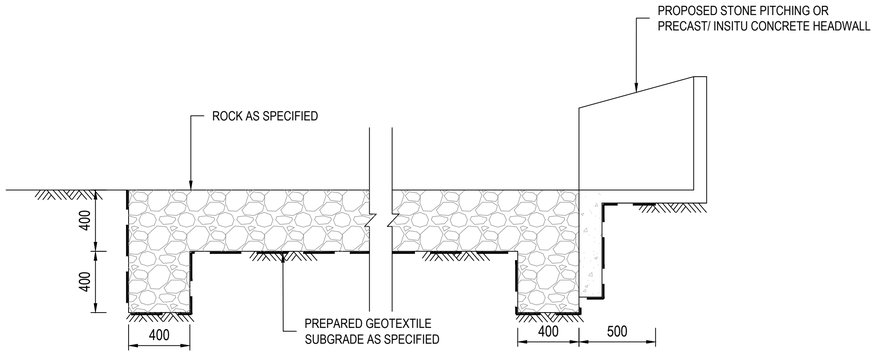
NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS · PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 671 139 843
M : N/R
E : N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER CALCULATIONS TABLE

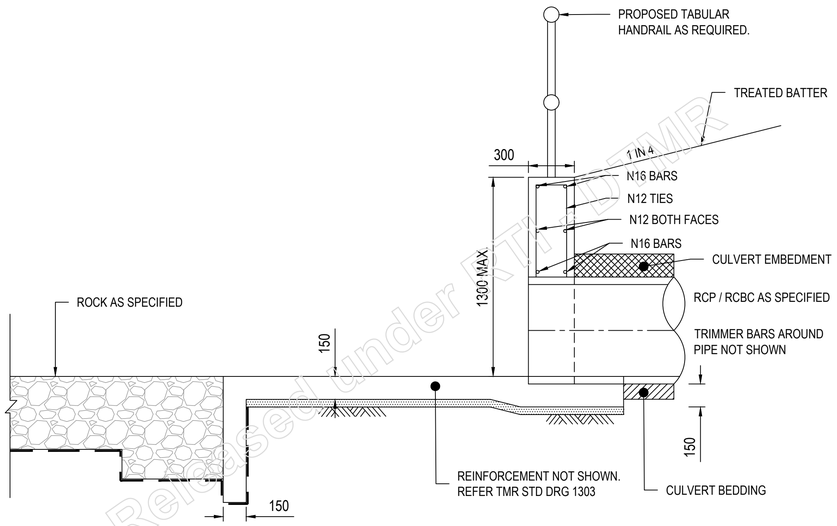
DEVEL. APPLIC. No. :
DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER
DESIGNER : TG
DRAFTSPERSON : TB
CHECKED : NIGEL FLETCHER
APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. :
SCALE : AS SHOWN
DATUM : AHD
FULL SIZE : A1
PROJECT No.: 210173P
DRAWING No. : C898
VERSION: C

FILENAME: N:\QTGT Vietnam Ltd Co\052 - SUBS\SUB025\SUB025A (RFA22023) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C898 STORMWATER CALCULATIONS.dwg
PLOTTED: 13 Aug 2025



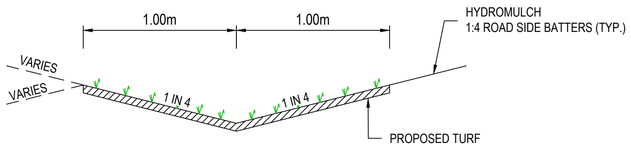
TYPICAL ROCK INLET OUTLET DETAIL

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)



TYPICAL HEADWALL EXTENSION DETAIL (PIPE)

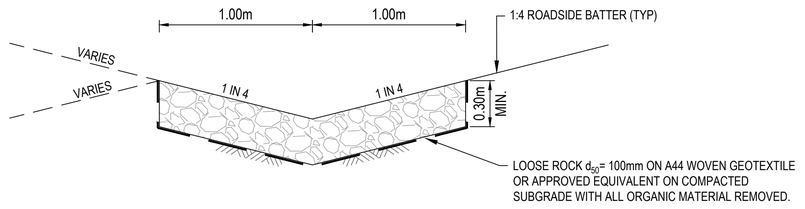
SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)



PROPOSED GRASS LINE SWALE

(MIN. FALL 1%)

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)



PROPOSED ROCK LINED DRAIN (TEMPORARY)

(MIN. FALL 1%)

SCALE 0.2 0 0.2 0.4 0.6 0.8 1.0 (metres)
1 : 20 (FULL SIZE)

TMR REVIEW

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GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
B	TMR IR RESPONSE	NF	13.08.25
A	DETAIL DESIGN	NF	25.03.25

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN:.671.139.843.
M: N/R
E: N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
STORMWATER DETAILS

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

AP N/R BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C899	VERSION: B

FILENAME N:\QTNGT Vietnam Ltd Co\QS2 - SUBS\SUBTS\SUB25004 (NF422023) Mt Walker Quarry Access Rd\03. Civil\01 DA\Rev A\02. AutoCAD\899 STORMWATER DETAILS.dwg
PLOTTED: 13 Aug 2025

From: Ken W Jensen
To: N/R igelfletcherassociates.com.au
Cc: N/R
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Thursday, 14 August 2025 10:24:00 AM
Attachments: image001.png
image002.png

N/R

Please find below a link to a onedrive folder where you should be able to upload the drawings (I am not real good with onedrive sharing so hopefully this works).

N/R

Please feel free to contact me with any queries.

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R
N/R @gcecontractors.com>; N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Please find our response to your Request Further Information of 7th May 2025.

Please forward a one drive link so we can upload the drawings and report referred to in this response. Thank you.

Kind Regards

N/R
Director

Released under RTI - DTMR

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R nigelfletcherassociates.com.au
M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>, N/R N/R (GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>, scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

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eDAM System | Department of Transport and Main Roads

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From: N/R nigelfletcherassociates.com.au
To: SCR Corridor and Land Management Inbox
Cc: Ken W Jensen; N/R
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Thursday, 14 August 2025 7:26:28 AM
Attachments: 210173C-LET 02.pdf
210173C NFA Doc Trans 017.pdf

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Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au> N/R
N/R GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>,
scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

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From: N/R nigelfletcherassociates.com.au
To: Ken W Jensen
Cc: N/R
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Friday, 15 August 2025 8:51:27 AM
Attachments: image001.png
image002.png

Hi Ken
We have noted an error in the Type 4 Pavement in the Preliminary Pavement Report and drawings C875 and C876.

We will correct these this morning and send them through.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Date: Thursday, 14 August 2025 at 5.42 pm
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

That all appears to have worked well from this end and the full set of Drawings and Preliminary Pavement Design Report were uploaded earlier.

Kind Regards

N/R
Director

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ENGINEERS - PROJECT MANAGERS

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E: N/R @nigelfletcherassociates.com.au
M: N/R

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

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N/R

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Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R
N/R @gcecontractors.com>; N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

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ENGINEERS - PROJECT MANAGERS

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M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au> N/R N/R GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>, scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

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From: N/R nigelfletcherassociates.com.au
To: Ken W Jensen
Cc: N/R
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Friday, 15 August 2025 10:01:23 AM
Attachments: image001.png
image002.png
210173C-LET 03-01.pdf
250813 210173P - MT Walker Access Road C875_D and C876_C.pdf

Hi Ken

Please find the amended Preliminary Pavement Report attached with Pavement Type 4 amended and a copy of Drg C875_D to include into the set of drawings you have.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From N/R nigelfletcherassociates.com.au [mailto: N/R @nigelfletcherassociates.com.au]
Date: Friday, 15 August 2025 at 8:51 am
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>, N/R
N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

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N/R
Director

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ENGINEERS - PROJECT MANAGERS

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M: N/R

From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Date: Thursday, 14 August 2025 at 5:42 pm
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>, N/R
N/R gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

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N/R
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ENGINEERS - PROJECT MANAGERS

E N/R @nigelfletcherassociates.com.au
M: N/R

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R
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Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
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P 07 5563 6536 **M** N/R
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Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R
N/R @gcecontractors.com>; N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

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N/R
Director

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ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>, N/R
N/R (GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>,

Released under RTI - DTMR

scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>

Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

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REFER KEY-IN DETAIL

LIMIT OF TMR INTERSECTION WORKS

ROSEWOOD-WARRILL

24
CC2345

ADJOINS C876

APPROXIMATE LOCATION OF DIA 375mm RCP CULVERTS TO BE EXTENDED.

APPROXIMATE LOCATION OF DIA 600mm RCP CULVERTS TO BE REPLACED.

PROPOSED DIA 450mm RCP CULVERT.

PROPOSED DIA 450mm RCP CULVERT.

PROPOSED DIA 375mm RCP CULVERT.

CHRISTENSEN ROAD

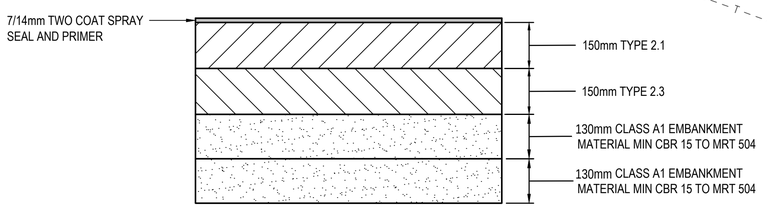
2
SP187797

1
SP187797

LIMIT OF TMR INTERSECTION WORKS

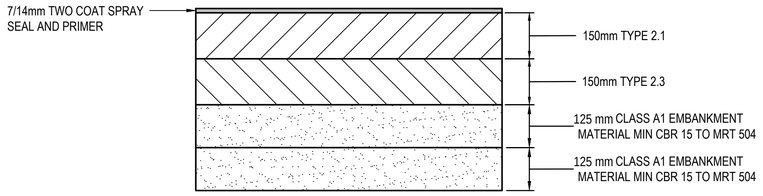
PRELIMINARY PAVEMENT PROFILES

FINAL PAVEMENT DESIGN SUBJECT TO 5 DAY SOAKED CBR TESTS AND GEOTECHNICAL INVESTIGATION REPORT OF THE COMPACTED SUBGRADE SPACING OF TEST LOCATIONS TO BE APPROVED BY DTMR.



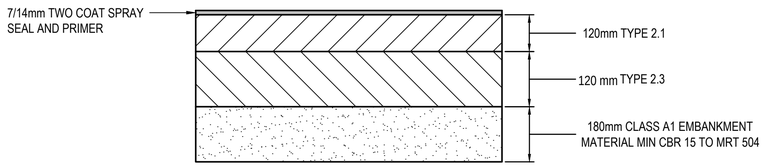
PAVEMENT TYPE 1

$7.3x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10



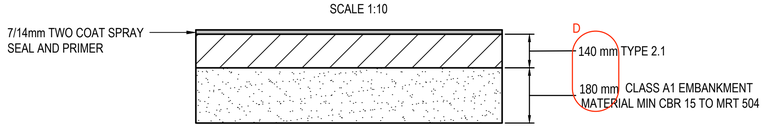
PAVEMENT TYPE 2

$6.9x10^6$ ESA, ASSUMED CBR 4%.
SCALE 1:10



PAVEMENT TYPE 3

$3.63x10^5$ ESA, ASSUMED CBR 4%.
SCALE 1:10



PAVEMENT TYPE 4 (BUS STOP)

$3.0x10^4$ ESA, ASSUMED CBR 4%.
SCALE 1:10

TMR REVIEW

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING POWER POLE
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

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VER.	DESCRIPTION	APPR.	DATE
D	PAVEMENT TYPE 4 AMENDED	NF	14.08.25
C	TMR IR RESPONSE	NF	11.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN : 071 139 843
M N/R
E N/R @nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

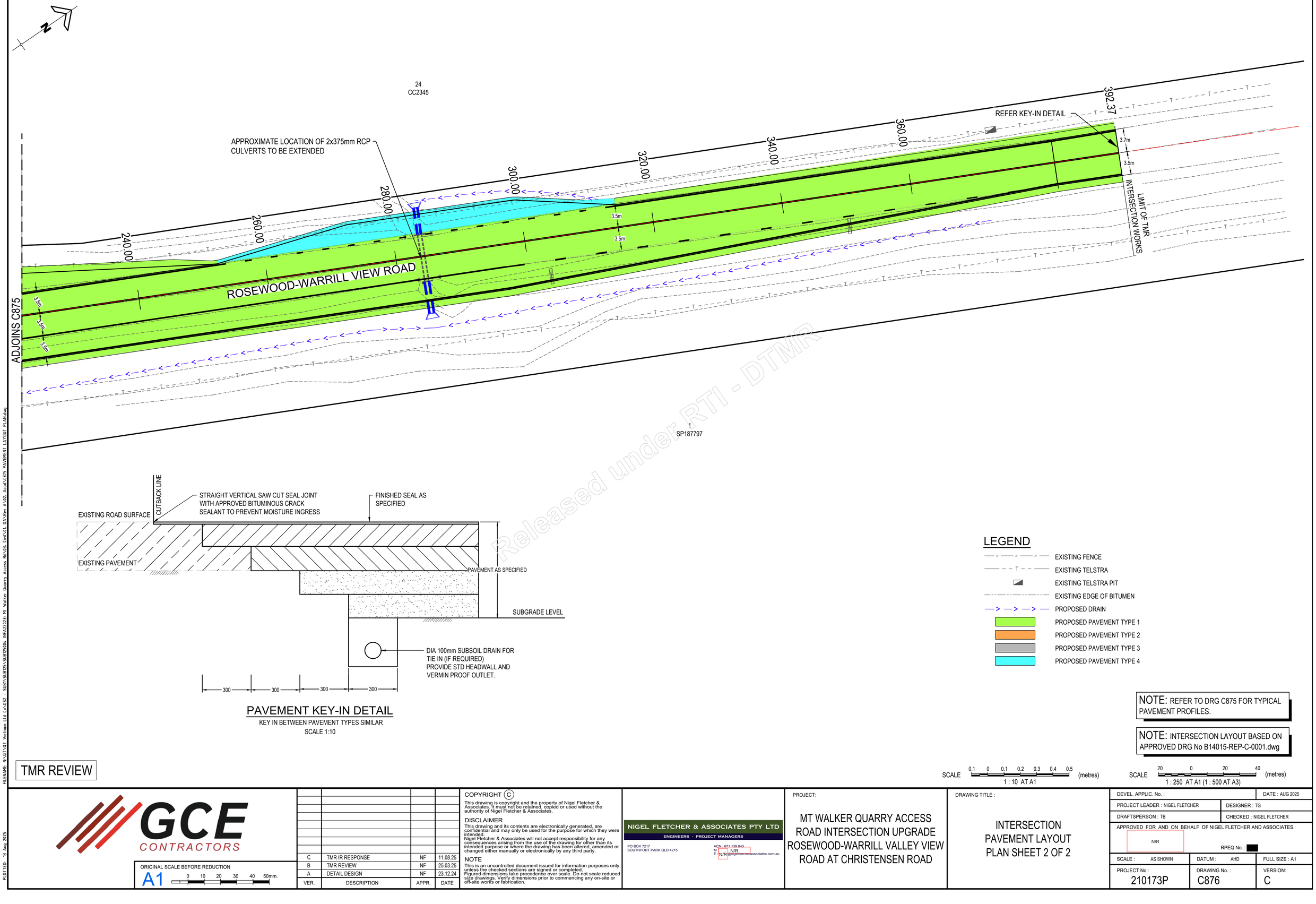
DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 1 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C875	VERSION: D

FILENAME: N:\Q1\Q1 Vietnam Ltd (Lv05) - SUBS\SUB7S\SUB7S01 (NF220223) Mt Walker Quarry Access Rd\03. Civil\01. DA\Rev A\02. Acad\C875 PAVEMENT LAYOUT PLAN.dwg
PLOTTED: 13 Aug 2025



PAVEMENT KEY-IN DETAIL

KEY IN BETWEEN PAVEMENT TYPES SIMILAR
SCALE 1:10

LEGEND

- EXISTING FENCE
- EXISTING TELSTRA
- EXISTING TELSTRA PIT
- EXISTING EDGE OF BITUMEN
- PROPOSED DRAIN
- PROPOSED PAVEMENT TYPE 1
- PROPOSED PAVEMENT TYPE 2
- PROPOSED PAVEMENT TYPE 3
- PROPOSED PAVEMENT TYPE 4

NOTE: REFER TO DRG C875 FOR TYPICAL PAVEMENT PROFILES.

NOTE: INTERSECTION LAYOUT BASED ON APPROVED DRG No B14015-REP-C-0001.dwg

SCALE 0.1 0 0.1 0.2 0.3 0.4 0.5 (metres)
1 : 10 AT A1

SCALE 20 0 20 40 (metres)
1 : 250 AT A1 (1 : 500 AT A3)

TMR REVIEW

GCE CONTRACTORS

ORIGINAL SCALE BEFORE REDUCTION
A1 0 10 20 30 40 50mm.

VER.	DESCRIPTION	APPR.	DATE
C	TMR IR RESPONSE	NF	11.08.25
B	TMR REVIEW	NF	25.03.25
A	DETAIL DESIGN	NF	23.12.24

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NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS
PO BOX 7217
SOUTHPORT PARK QLD 4215
ACN - 671 139 843
M N/R
E N/R nigelfletcherassociates.com.au

PROJECT:
MT WALKER QUARRY ACCESS ROAD INTERSECTION UPGRADE ROSEWOOD-WARRILL VALLEY VIEW ROAD AT CHRISTENSEN ROAD

DRAWING TITLE :
INTERSECTION PAVEMENT LAYOUT PLAN SHEET 2 OF 2

DEVEL. APPLIC. No. :	DATE : AUG 2025
PROJECT LEADER : NIGEL FLETCHER	DESIGNER : TG
DRAFTSPERSON : TB	CHECKED : NIGEL FLETCHER

APPROVED FOR AND ON BEHALF OF NIGEL FLETCHER AND ASSOCIATES.
N/R
RPEQ No. : [redacted]

SCALE : AS SHOWN	DATUM : AHD	FULL SIZE : A1
PROJECT No.: 210173P	DRAWING No. : C876	VERSION: C

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FILENAME N:\01\01 Valmon Ltd GA\052 - SUB1\SUB125\SUB72500L (ME#27023) Mt Walker Quarry Access RG\03. Civil\01. DA\Rev A\02. Acad\C875 PAVEMENT LAYOUT PLAN.dwg
PLOTTED 13 Aug 2025

From: N/R nigelfletcherassociates.com.au
To: Ken W Jensen
Cc: N/R
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Friday, 15 August 2025 8:51:27 AM
Attachments: image001.png
image002.png

Hi Ken
We have noted an error in the Type 4 Pavement in the Preliminary Pavement Report and drawings C875 and C876.

We will correct these this morning and send them through.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M N/R

From: N/R nigelfletcherassociates.com.a N/R @nigelfletcherassociates.com.au>
Date: Thursday, 14 August 2025 at 5.42 pm
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

That all appears to have worked well from this end and the full set of Drawings and Preliminary Pavement Design Report were uploaded earlier.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

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E N/R @nigelfletcherassociates.com.au
M: N/R

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To: N/R nigelfletcherassociates.com.a N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R

Please find below a link to a onedrive folder where you should be able to upload the drawings (I am not real good with onedrive sharing so hopefully this works).

N/R

Please feel free to contact me with any queries.

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From N/R igelfletcherassociates.com.au N/R nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au> N/R
N/R @gcecontractors.com>; N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Please find our response to your Request Further Information of 7th May 2025.

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Please forward a one drive link so we can upload the drawings and report referred to in this response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E N/R @nigelfletcherassociates.com.au
M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au> N/R N/R (GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>, scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

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From: N/R
To: SCR Corridor and Land Management Inbox; Nathan A Bright; Ken W Jensen
Cc: N/R
Subject: Re: Royalties Payment
Date: Wednesday, 20 August 2025 11:45:40 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image016.png
image017.png
image018.png
image019.png
image020.png
image021.png
image022.png
image023.png
image024.png
image.png
image.png
image.png
image.png
image.png
image.png
doc06002220250820100506.pdf

Hi Nathan and Ken,

Thanks for your help with this.

Attached are the details to get us set up as a customer in your system for Royalty payment.
Please let me know if there is any more information you require.

To answer your question; the use has not commenced operations for the extractive industry, as we are yet to upgrade the Christensen Road which must be completed prior.

In fact, we have been experiencing difficulty in securing positive engagement from Scenic Rim Regional Council over the past few months unfortunately, which has been frustrating.

Our road design and application were submitted on 21 March, yet despite our repeated efforts, we have received poor feedback from Council up until very recently.

At this stage, we are already heavily invested in the project and feel it warrants a higher level of respect and consideration from Council.

This development promotes the circular economy through landfill remediation, provides long-term employment for the local community, securing jobs for the region for the next 50 years!

It will also deliver significant regional benefits by reducing haulage distances and costs for upcoming major infrastructure projects, including the Brisbane 2032 Olympic-related works and subdivisions in key nearby growth corridors.

Frustration aside, we will continue to strive to do the right thing and ensure that all necessary preparations are in place so we are ready to hit the ground running once the required approvals are granted. Being set up as a client is another example of that commitment.

Thank you again.

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All the best,

N/R **Engineer | GCE Contractors Pty Ltd**

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au
Address: 55 McDonald Road, Windsor, QLD 4030

From: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Sent: Tuesday, August 5, 2025 2:19 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: Royalties Payment

Good Afternoon N/R

Nathan Bright provided a response to N/R on 29.07.2025, see attached.

Emily, Daniel and Mia
Administration Support Officers (Corridor and Land Management), South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department Transport and Main Roads
P 07 5563 6600
36-38 Cotton Street, Nerang, Qld 4211

This email is monitored by several team members, including part-time staff.

From: N/R @gcecontractors.com>
Sent: Tuesday, 5 August 2025 12:32 PM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
@gcecontractors.com>
Subject: Re: Royalties Payment

Hi

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Can we get the details of the account we are to pay Royalities into please?
Mt walker quarries qld

All the best,

N/R **Engineer | GCE Contractors Pty Ltd**

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au
Address: 55 McDonald Road, Windsor, QLD 4030

From N/R @gcecontractors.com>
Sent: Thursday, July 31, 2025 7:48 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: Re: Royalties Payment

Hi,

Can we get an update on the below please.

All the best,

N/R **Engineer | GCE Contractors Pty Ltd**

Mobile: N/R
Email N/R gcecontractors.com
Website: www.gcecontractors.com.au
Address: 55 McDonald Road, Windsor, QLD 4030

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From N/R @gcecontractors.com>
Sent: Tuesday, July 29, 2025 9:11 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: Re: Royalties Payment

Hi there,
We are in the process of opening a quarry in mt walker, and with condition 22 of our DA we have to pay Royalities per tonne sold.

Just looking for the account details this needs to be paid into please?
thanks

All the best,

N/R **Engineer | GCE Contractors Pty Ltd**

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au
Address: 55 McDonald Road, Windsor, QLD 4030

From: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Sent: Tuesday, July 29, 2025 8:30 AM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: RE: Royalties Payment

N/R

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You can contact the South Coast DTMR office to arrange the payments, their email is scr.calm@tmr.qld.gov and phone number is (07) 5563-6600

I've cc'd them to this email so they have a heads up that you may be in touch re: condition 22.

Have a good day

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
P 5644 3223
Level 9, 12-14 Marine Parade, Southport QLD 4215
PO Box 3290, Southport QLD 4215

From N/R @gcecontractors.com>
Sent: Monday, 28 July 2025 3:52 PM
To: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Cc: N/R gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>
Subject: RE: Royalties Payment

Alice,

Its condition no 22. We would like to know how we can make these payments.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Sent: Monday, 28 July 2025 2:41 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>; IpswichSARA <IpswichSARA@dsdilgp.qld.gov.au>
Subject: RE: Royalties Payment

Hi N/R

Nice to hear from you.

Could you clarify which condition from SARA's referral agency response you are referring to? I've attached for ease of reference.

Cheers for now

Alice Davis
Principal Planning Officer (Mon-Thurs)
Planning Services, Planning Group
Department of State Development, Infrastructure and Planning
P 5644 3223
Level 9, 12-14 Marine Parade, Southport QLD 4215
PO Box 3290, Southport QLD 4215

From: N/R @gcecontractors.com>
Sent: Friday, 25 July 2025 11:34 AM
To: Alice Davis <Alice.Davis@dsdilgp.qld.gov.au>
Cc: N/R @gcecontractors.com>; GCE Contractors Accounts <accounts@gcecontractors.com>; N/R @gcecontractors.com>
Subject: Royalties Payment

Alice,
I hope this message finds you well.
I'm seeking clarification regarding a condition attached to our Development Approval (DA). Specifically, could you please advise who we are required to pay the royalties to in relation to this condition?
Your guidance on this would be greatly appreciated.
Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

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Mobile N/R
Email N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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MT WALKER QUARRIES QLD

Mount Walker Quarries QLD – Royalties information

Information we require to generate a customer and invoice includes the particulars below:
Reference No. TMR14-009023 and SDA-0914-014441

Customer Name	Mt Walker Quarries (QLD) Pty Ltd
TMR Customer Number (if known)	
Trading Name (If any)	Mt Walker Quarries (QLD) Pty Ltd
ABN	91 671 527 003
Address	Po Box 2716, Ascot, 4007
Postal Address (if any)	
Account Contact Person	N/R
Contact Phone Number and Email	N/R accounts@mtwalkerquarries.com

You can choose to undertake this process on a regular basis, please advise 12 monthly, quarterly or appropriate time period, the indexation for the relevant quarter will need to be applied to contributions.

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From: N/R nigelfletcherassociates.com.au
To: Ken W Jensen
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Friday, 22 August 2025 11:32:10 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.png

Hi Ken

Could you please confirm that you have received our revised full drawing set via the one drive link you sent me and the revised Prelim Pavement Report and Drg sent below.

Could you also please advise likely timing on your response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: N/R @gcecontractors.com>
Sent: Friday, August 22, 2025 11:22:59 AM
To: N/R nigelfletcherassociates.com.au < N/R nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Can you provide an update on the query below.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R

Released under RTI - DTMR

Email N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: N/R
Sent: Wednesday, 20 August 2025 9:43 AM
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Can I please have an update on when we will have the intersection drawings approved.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: N/R
Sent: Friday, 15 August 2025 7:27 AM
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

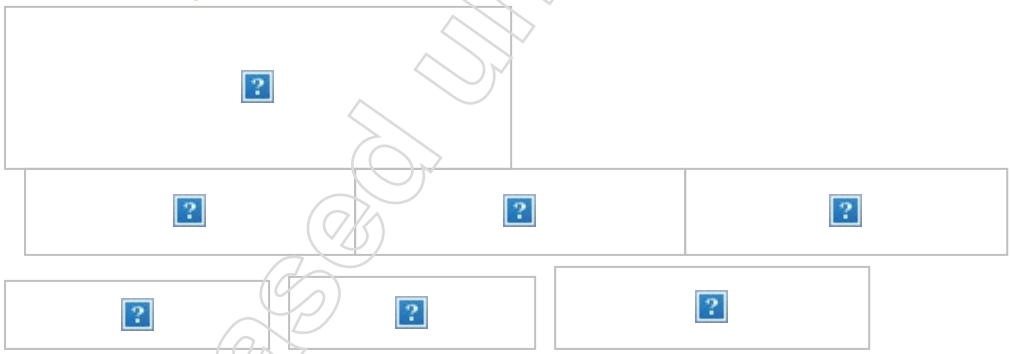
Ken,

Could you please confirm when we can expect a response on the approved drawings, on the basis that DTMR are satisfied the latest revisions have addressed all outstanding items.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au



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From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 5:43 PM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R @gcecontractors.com>

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Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

That all appears to have worked well from this end and the full set of Drawings and Preliminary Pavement Design Report were uploaded earlier.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R nigelfletcherassociates.com.au
M N/R

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com>, N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R
Please find below a link to a onedrive folder where you should be able to upload the drawings (I am not real good with onedrive sharing so hopefully this works).

N/R

Please feel free to contact me with any queries.

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

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From N/R nigelfletcherassociates.com.au N/R nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R
N/R @gcecontractors.com>; N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Please find our response to your Request Further Information of 7th May 2025.

Please forward a one drive link so we can upload the drawings and report referred to in this response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au> N/R
N/R (GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>,
scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

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If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

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From: SCR Corridor and Land Management Inbox
To: N/R
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()
Date: Thursday, 10 April 2025 3:16:44 PM
Attachments: image001.jpg
image002.png
image003.png
image004.png
image005.png

Thanks N/R

I've uploaded these to our portal. The assessor will revie and be in contact in due course.

Emily Spencer
Administration Support Officer (Corridor and Land Management) | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

Phone: 07 5563 6404
Email: scr.calm@tmr.qld.gov.au
Website: www.tmr.qld.gov.au
Address: Floor G | 36-38 Cotton Street | Nerang Qld 4211

From: N/R @gcecontractors.com>
Sent: Tuesday, 8 April 2025 9:17 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Emily,

All documents have now been uploaded to the link you provided. They are contained within the folder "Christensen Road Submission Docs"

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Sent: Monday, April 7, 2025 2:22 PM
To: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Thank you for your recent email.

Unfortunately, we are unable to download files from a zip folder. To facilitate the process, I have provided access to a secure folder on OneDrive.

N/R

Could you please upload the necessary documents to this folder at your earliest convenience?

Thank you for your cooperation.

Emily Spencer
Administration Support Officer (Corridor and Land Management) | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

Phone: 07 5563 6404
Email: scr.calm@tmr.qld.gov.au
Website: www.tmr.qld.gov.au
Address: Floor G | 36-38 Cotton Street | Nerang Qld 4211

From N/R @gcecontractors.com>
Sent: Tuesday, 1 April 2025 12:40 PM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Good afternoon,

Please find our full set of the Christensen Road Intersection drawings in the link below. We hereby request an Unconditional Works approval. Please let us know if you have any comments.

N/R

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N/R

Kind Regards

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Thursday, July 25, 2024 12:13 PM
To: N/R @gcecontractors.com>
Cc: N/R gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Please see below required detail:

- Line Marking
  - There is no note or information indicating if RRPMs are to be installed as per standard practice.
  - Chevron markings on wide shoulder area on left turn out of Christensen Road may be required.
  - Confirmation of line marking/widths on shoulder of BAR, total width of BAR to be minimum of 6.5, however TMR has no objection to the current proposed 7m (inclusive of 0.5m shoulder).
- Pavement Queries:
  - Detail about pavement configuration
  - Provide Circly summary if undertaken

Thanks N/R

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division

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Department of Transport and Main Roads

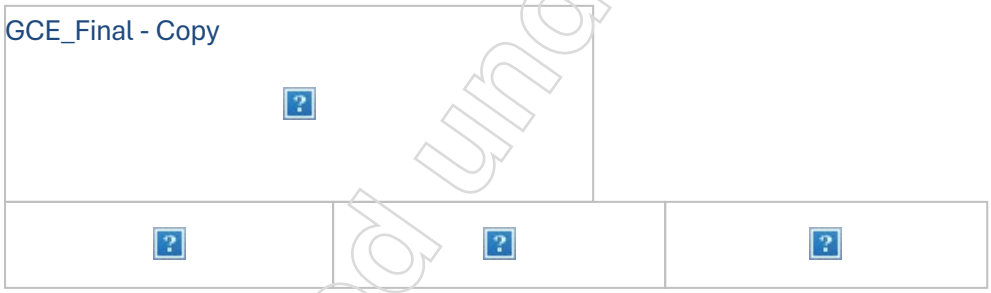
P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From N/R @gcecontractors.com>
Sent: Wednesday, July 24, 2024 10:21 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc N/R gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Thanks Nathan I appreciate the quick response – we will not require a meeting however if you could please relay the required detail for pavement design and Linemarking via return email, we will address these and revert back to you for approval.

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au



From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, July 23, 2024 3:57 PM
To: N/R gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Following up on my below email,

The plans have been reviewed by Ken and myself, TMR generally endorses the design, all that is needed is further detail regarding the pavement design and a few queries regarding line

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marking, we are happy to condition these requirements or I can relay them via email/meeting.

Noting that TMR endorses the design and are happy with the design progressing, would you still like to have a meeting? If so, please let me know your availability and I can arrange this.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: Nathan K Cubit
Sent: Tuesday, July 23, 2024 9:50 AM
To N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Apologies, I was not at work yesterday, I can confirm receipt of the updated plans, I will check with Ken regarding his availability and will get a meeting organised shortly.

Thank you.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: N/R @gcecontractors.com>
Sent: Tuesday, July 23, 2024 9:33 AM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R gcecontractors.com>

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Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Can you please confirm receipt of the additional design documents and advise when DTMR would be available to meet to discuss? We are looking to commence works within the next few weeks and need to get this underway as soon as possible.

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: N/R
Sent: Friday, July 19, 2024 12:36 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

Please find attached additional design documents. Can you please confirm receipt and advise when we can arrange a meeting in relation to this development?

Kind Regards,

N/R
GCE Contractors Pty Ltd
Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

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From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Tuesday, June 25, 2024 2:00 PM
To: N/R @gcecontractors.com>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

Attached is what we have received, is this the latest from your end or is there more that we haven't received?

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: N/R @gcecontractors.com>
Sent: Tuesday, June 25, 2024 1:56 PM
To: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi Nathan,

I had sent through the design we currently have for the road upgrade works. As this is at 30% design it is not complete and would require a meeting in order to continue with progressing the design. Can you please confirm that you received the design submitted with our application?

Kind Regards,

N/R
GCE Contractors Pty Ltd

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Ph 07 3357 7430
N/R @gcecontractors.com
www.gcecontractors.com.au

From: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>
Sent: Monday, June 24, 2024 12:15 PM
To: N/R @gcecontractors.com>
Subject: FW: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

Hi N/R

In regards to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307,

The Department of Transport and Main Roads is requesting more information/detailed plans to support your application, specifically additional drawings such as cross sections, drainage, pavement design, horizontal & vertical geometry as the current provided information is quite limited.

Feel free to provide the above via return email and I will upload them into the application.

Kind regards

Nathan Cubit
Student Engineer (Civil) | Corridor and Land Management
Project Planning and Corridor and Land Management | South Coast Region
Program Delivery and Operations Branch | Infrastructure Management and Delivery Division
Department of Transport and Main Roads

P: 07 5563 6516
Ground Floor | 36-38 Cotton Street | Nerang Qld 4211
PO Box 442 | Brisbane Qld 4001
nathan.k.cubit@tmr.qld.gov.au
www.tmr.qld.gov.au

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Sent: Thursday, June 20, 2024 11:16 AM
To: GCE Contractors Pty Ltd N/R @gcecontractors.com.au>
Cc: Nathan K Cubit <Nathan.K.Cubit@tmr.qld.gov.au>; SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - Receipt of application for Christensen Road, Coleyville QLD 4307 ()

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I refer to your application pursuant to the *Transport Infrastructure Act 1994* (TIA) at Christensen Road, Coleyville QLD 4307. This application was received by the Department of Transport and Main Roads (the department) on 18 June 2024.

Should further information be required to assess your application, an information request will be issued.

If no further information is required, your application will be assessed, and you will be provided with a response pursuant to the TIA.

If you would like to discuss this application, please contact Nathan Cubit, Student Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6516.

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Regards,
eDAM System | Department of Transport and Main Roads

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From: N/R
To: N/R gelfletcherassociates.com.au; Ken W Jensen
Cc: N/R
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Wednesday, 20 August 2025 9:42:45 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.png

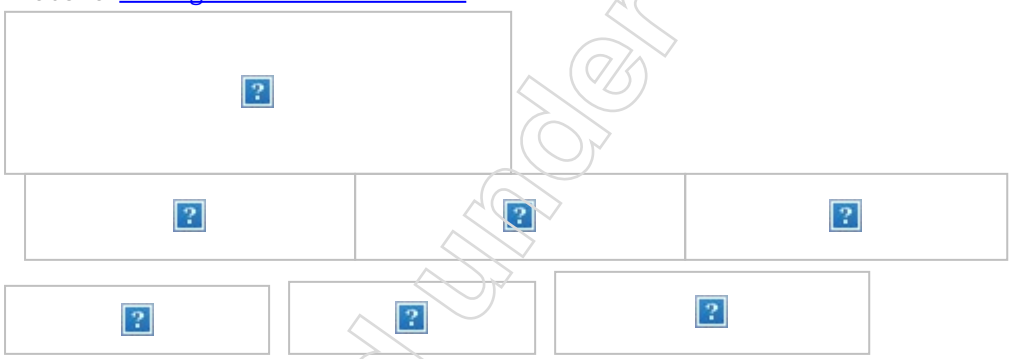
Ken,

Can I please have an update on when we will have the intersection drawings approved.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au



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From: N/R
Sent: Friday, 15 August 2025 7:27 AM
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

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Could you please confirm when we can expect a response on the approved drawings, on the basis that DTMR are satisfied the latest revisions have addressed all outstanding items.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R gcecontractors.com
Website: www.gcecontractors.com.au

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From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 5:43 PM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

That all appears to have worked well from this end and the full set of Drawings and Preliminary Pavement Design Report were uploaded earlier.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

Released Under RTI - DTMR

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R

Please find below a link to a onedrive folder where you should be able to upload the drawings (I am not real good with onedrive sharing so hopefully this works).

N/R

Please feel free to contact me with any queries.

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

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Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R
N/R @gcecontractors.com>; N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Please find our response to your Request Further Information of 7th May 2025.

Please forward a one drive link so we can upload the drawings and report referred to in this response. Thank you.

Released under RTI - DTMR

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au> N/R N/R (GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>, scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

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If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

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From: N/R
To: Ken W Jensen; N/R igelfletcherassociates.com.au
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Monday, 25 August 2025 10:40:22 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.png

Ken,

Thanks for the update.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Sent: Friday, 22 August 2025 4:12 PM
To N/R nigelfletcherassociates.com.au N/R nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R

I confirm that the revised full set of drawings has been received and uploaded into our system. I am currently reviewing these drawings and, pending there being no outstanding issues, I hope to issue a conditional approval early next week.

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Please Note – due to a minor shortage of Engineers in our team at the current point in time, the review has been slightly delayed, but as always we are endeavouring to process this approval as soon as possible.

Thank you for the detailed response to the previous IR points (it certainly makes it easier to review). I note that there no design development report has been submitted as previously requested, hopefully it is not required for this scale of project to finalise the approval. However, your assessment of sight distance availability submitted with the response is acknowledged.

I will make further contact if I have any queries or require clarification, otherwise expect to see an approval early next week.

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Friday, 22 August 2025 11:32 AM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Could you please confirm that you have received our revised full drawing set via the one drive link you sent me and the revised Prelim Pavement Report and Drg sent below.

Could you also please advise likely timing on your response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD

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ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: N/R @gcecontractors.com>
Sent: Friday, August 22, 2025 11:22:59 AM
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

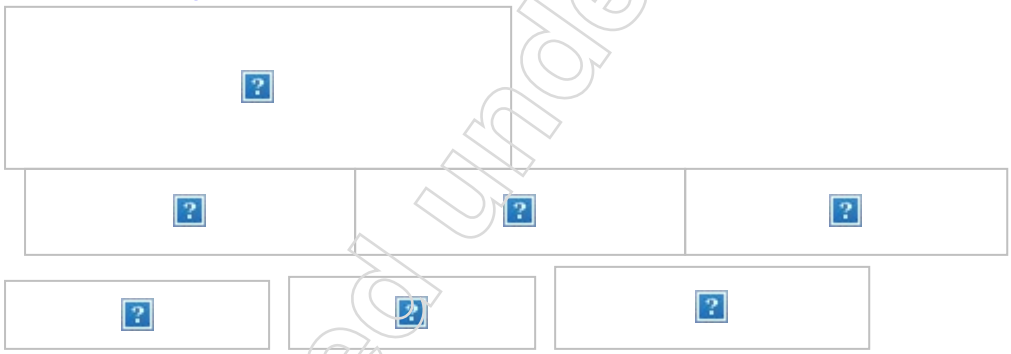
Ken,

Can you provide an update on the query below.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au



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From: N/R
Sent: Wednesday, 20 August 2025 9:43 AM
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

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Ken,

Can I please have an update on when we will have the intersection drawings approved.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: N/R
Sent: Friday, 15 August 2025 7:27 AM
To: N/R nigelfletcherassociates.com.au < N/R nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com N/R N/R gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Could you please confirm when we can expect a response on the approved drawings, on the basis that DTMR are satisfied the latest revisions have addressed all outstanding items.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com

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Website: www.gcecontractors.com.au

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From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 5:43 PM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

That all appears to have worked well from this end and the full set of Drawings and Preliminary Pavement Design Report were uploaded earlier.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com>, N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

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N/R

Please find below a link to a onedrive folder where you should be able to upload the drawings (I am not real good with onedrive sharing so hopefully this works).

N/R

Please feel free to contact me with any queries.

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R
N/R @gcecontractors.com>; N/R gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Please find our response to your Request Further Information of 7th May 2025.

Please forward a one drive link so we can upload the drawings and report referred to in this response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R l@nigelfletcherassociates.com.au
M: N/R

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From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>, N/R N/R GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>, scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

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If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

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Our ref TMR24-042833
Your ref MC.Bn13/00012 / 210173P
Enquiries Ken Jensen

Queensland Government

Department of
Transport and Main Roads

2 September 2025

GCE Contractors Pty Ltd
13a/191 Hedley Avenue
Hendra QLD 4011

Dear N/R

Conditional approval of road works at Christensen Road, Coleyville QLD 4307

This is not an authorisation to commence work on a state-controlled road

I refer to your application for road works made pursuant to section 33 of the *Transport Infrastructure Act 1994* (TIA) for works at Christensen Road, Coleyville QLD 4307.

The Department of Transport and Main Roads (the department) has assessed your application, including the following plans prepared by Nigel Fletcher and Associates:

Dwg No.	Drawing/Report title	Date	Version
C800	Cover Sheet and Location Plan	13.08.25	E
C801	Standard Notes	13.08.25	E
C820	Demolition Layout Plan	13.08.25	C
C825	25m B-Double Swept Path Layout Plan	13.08.25	D
C835	Intersection Erosion and Sediment Control Plan	13.08.25	D
C836	Intersection Erosion and Sediment Control Details	13.08.25	D
C840	Intersection Earthworks Layout Plan	13.08.25	C
C860	Road Intersection Overall Layout Plan	13.08.25	E
C861	Road Intersection Layout Plan – Sheet 1 of 2	13.08.25	E
C862	Road Intersection Layout Plan – Sheet 2 of 2	13.08.25	E
C863	Rosewood – Warrill View Road Details	13.08.25	C
C864	Rosewood – Warrill View Road Longitudinal Sections	13.08.25	E
C865	Rosewood – Warrill View Road Cross Sections – Sheet 1 of 3	13.08.25	E
C866	Rosewood – Warrill View Road Cross Sections – Sheet 2 of 3	13.08.25	E
C867	Rosewood – Warrill View Road Cross Sections – Sheet 3 of 3	13.08.25	E

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Program Delivery and Operations
South Coast Region
36-38 Cotton Street Nerang QLD 4211
PO Box 442 Nerang QLD 4211

Telephone +61 (07) 5563 6536
Website www.tmr.qld.gov.au
Email scr.calm@tmr.qld.gov.au
ABN: 39 407 690 291

Dwg No.	Drawing/Report title	Date	Version
C868	Christensen Road Longitudinal Section	13.08.25	E
C869	Christensen Road Cross Sections	13.08.25	C
C870	Intersection Signage Layout Plan – Sheet 1 of 2	13.08.25	E
C871	Intersection Signage Layout Plan – Sheet 2 of 2	13.08.25	E
C875	Intersection Pavement Layout Plan – Sheet 1 of 2	14.08.25	D
C876	Intersection Pavement Layout Plan – Sheet 2 of 2	11.08.25	C
C880	Intersection Sight Line Plan	13.08.25	A
C890	Catchment Layout Plan	13.08.25	D
C891	Stormwater Layout Plan – Sheet 1 of 2	13.08.25	C
C892	Stormwater Layout Plan – Sheet 1 of 2	13.08.25	C
C895	Stormwater Sections – Sheet 1 of 2	13.08.25	E
C896	Stormwater Sections – Sheet 2 of 2	13.08.25	E
C897	Stormwater Longitudinal Sections	13.08.25	C
C898	Stormwater Calculations Table	13.08.25	C
C899	Stormwater Details	13.08.25	B

The department has decided to approve the application, subject to the following conditions:

No.	Conditions of Approval	Condition Timing
A. General		
1	Road Works comprising upgrading of the Christensen Road intersection on Rosewood Warrill View Road to include channelised left turn lane and basic right turn treatments must be provided generally in accordance with the accepted design drawings listed above. Any major design changes are to be submitted to the Department for acceptance prior to implementation. *Note: The department does not accept any responsibility for the accuracy of such plans and specifications as submitted. It is assumed that the applicant has executed sound engineering judgement when preparing the plans and specifications and that all the site conditions and the department's requirements have been taken into account.* ***Note - Any deficiencies which come to the attention of the department during construction shall be rectified/addressed accordingly by the applicant at no cost to TMR.***	Construction of road works must not commence until the Prestart meeting has concluded and an 'Authority to Commence' has been issued.

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No.	Conditions of Approval	Condition Timing
2	**Design Amendments / Comments** 1) With reference to the roadworks layout plan and associated cross sections, it is indicated that a 1.0m wide shoulder is proposed outside the 3.0m widening for the BAR treatment. As per the AGRD requirements, a standard BAR treatment is a 3.0m wide (sealed) shoulder to provide a total width of 6.5m from centre line. An additional shoulder outside this sealed shoulder is not required. The roadworks profile between approximately CH45 and CH250 (LHS) may be amended to remove this additional 1.0m shoulder. Amended design drawings incorporating the reduced shoulder width (if adopted) are to be provided to the department for review and acceptance prior to construction commencing. 2) Pavement at Bus stops • The pavement type 1 (northbound) / 3 (southbound) profile should be continued for the width of the sealed shoulder (1.0m) prior to changing to pavement type 4 at both the northbound and southbound bus stops. • Due to being on the top side of the superelevation, a subsoil drain would not be required at the interface between pavement type 3 and type 4 at the southbound bus stop. • Due to being on the bottom side of the crossfall and being shallower pavement for the bus stop, a subsoil drain will be required at the interface between pavement type 1 and type 4 at the northbound bus stop, unless the pavement profile for the bus stop is altered to match the adjacent type 1 pavement. 3) It is noted that no design development report has been submitted to support the current design. Recognising that the scale of works is to prove a left turn lane and BAR widening only for the through road and does not involve upgrading the standard of the through road this is acceptable. However, as a minimum, a RPEQ certified Roadside Hazard Risk assessment must be submitted, confirming that the combined risk score for the submitted design is below the TMR threshold of 0.6. This risk score must be completed in accordance with AGRD Part 6 and associated TMR Supplement and must consider major roadside hazards including embankment batter / swale drain, culvert headwalls, and any nearby aboveground utility service infrastructure.	Prior to commencement of works.

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No.	Conditions of Approval	Condition Timing
3	The Road Works are to be constructed in accordance with TMR's Road Planning and Design Manual 2nd Edition, Road Drainage Manual, Pavement Design Manual, TMR's Technical Specifications, Standards, Standard Drawings Roads and local government requirements. All TMR Technical Specifications are to be read in conjunction with 'MRTS01 Introduction to Technical Specifications' (including annexure).	At all times during construction.
4	Please Note - The department would like to remind you of the requirement to ensure that prior to conducting any ground disturbance activities, you have taken all necessary steps and put in place appropriate measures to ensure compliance with the *Aboriginal Cultural Heritage Act (Qld) 2003 (ACHA 2003)*. Visit the DATSIP website (https://www.datsip.qld.gov.au) for more information on the *ACHA 2003* and to access the Cultural Heritage Database and Register.	Prior to commencement of works.
5	All works within the State-controlled road must be supervised by a professional civil engineer, i.e., must be a Registered Professional Engineer of Queensland (RPEQ) and eligible for corporate membership of the Institution of Engineers Australia. The nominated Supervising Engineer is responsible for implementing appropriate inspection systems for the proposed works within the State-controlled road to ensure that all works are constructed in accordance with the engineering drawings and specifications. Notwithstanding the above requirement, TMR's Works Inspector will conduct inspections throughout the period of the works. All certificates of tests carried out for works within State-controlled road boundaries are to be made available to the TMR Works Inspector upon request. No paving, priming or sealing shall be carried out until the Supervising Engineer and TMR's Works Inspector have assessed the finished subgrade, finished pavement, and any job specific requirements. In accordance with Specifications and Annexures applying to the particular works, tests may be carried out at the inspections.	At all times during construction.
6	This conditional approval is valid for one (1) year from the date of this letter unless otherwise an 'Authority to Commence' letter and a Pre-start meeting has been completed.	At all times.
7	The Road Works are to be constructed at no cost to TMR.	At all times.

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No.	Conditions of Approval	Condition Timing
8	TMR officers are to be allowed access to the project site for the purpose of ensuring compliance with TMR's conditions of approval.	At all times during construction.
9	Any damage to the existing road infrastructure caused by carrying out the Road Works is to be rectified/repaired at no cost to TMR.	At all times during construction and to be maintained during the "on-maintenance" period.
10	The Road Works must be maintained to a safe trafficable standard by the applicant at no cost to TMR.	At all times.
B. Documents for Approval		
11	Nominate a RPEQ who will inspect, certify, and issue RPEQ certified as-constructed drawings and post construction documentation at the completion of the works. The name, contact details and RPEQ No. for the supervising professional engineer must be provided to TMR. *Note: it is the responsibility of the nominated RPEQ to ensure the certified as-constructed drawings are consistent with the final completed works.*	Prior to the Prestart Meeting and at all times during construction.
12	A performance bond (security) calculated in accordance with the attached "Bonds or Security Deposits required by a Road Works Approval (under section 33 of the Transport Infrastructure Act 1994)" is to be lodged with the TMR office in Nerang. The Security is applied for the purpose of: i. Ensuring the due and proper performance and completion of works by the applicant. ii. Recovering the cost of any urgent action to protect the works, other property, or people if the applicant or the nominated site representative fails to take the necessary action. If time permits, the TMR representative will give the applicant, or the nominated site representative, prior written notice of Main Roads intention to take the aforementioned action. The performance bond provided must be one of the following: a) Cash; b) An unconditional, irrevocable bank guarantee using TMR form F5086 (attached) for a bank approved by TMR; or c) An unconditional, irrevocable insurance bond using TMR form F5087 (attached) from an insurance company approved by TMR.	Prior to the Prestart Meeting.

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No.	Conditions of Approval	Condition Timing
	Fifty percent of the bond is intended to be released at satisfactory completion of the works (Practical Completion). The remaining bond shall be released at the end of the maintenance period (upon achievement of the completed works 'off Maintenance'). **Advisory Notes:** • An appropriately certified estimate of the project value of the works within the State-controlled road, including terms and schedule of rates is to be submitted to TMR for reference prior to lodgement of any bond to TMR. • Any non-cash performance bond is to be provided as two parts, each for 50% of the total bond amount. • If form F5086 or F5087 is used, the original signed forms must be lodged at TMR's Nerang office prior to requesting a Prestart meeting. Copies of these documents will not be accepted. • If a cash bond is proposed, please contact TMR for instructions.	
13	Submit to TMR for approval, a Construction Management Plan (CMP) for the works. The CMP is to detail what steps are necessary to protect the public and how they will be implemented during construction of the works. The CMP must include, but is not limited to, the following details:- (a) A program schedule of works (including staging if necessary); (b) Location and standard of construction access; (c) Location of any temporary material stockpiles; (d) Key Personnel and their roles and responsibilities; and (e) Stakeholder consultation plan.	Prior to the Prestart Meeting.
14	Submit to TMR for approval, a Traffic Management Plan (TMP) prepared by an accredited Traffic Management Designer for the Road Works. The TMP must address the following: • TMR's Specification MRTS02; • TMR's Queensland Guide to Temporary Traffic Management (QGTTM); • TMR's Queensland Manual of Uniform Traffic Control Devices Part 3: Traffic Control for Works on Roads (MUTCD); • TMR's Guideline Traffic Management at Works on Roads; • Austroads Guide to Temporary Traffic Management (AGTTM); and	Prior to the Prestart Meeting.

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No.	Conditions of Approval	Condition Timing
	• Australian Standard AS1742.3: Manual of uniform Traffic Control Devices. The TMP must also include, but is not limited to, the following details: a) Work site access/Site Plan; b) Stages of road works; c) Relevant Traffic Guidance Scheme(s) for each stage that address during and aftercare periods; d) Storing of Plant and materials; and e) And any other matters relevant to the works. **Advisory Notes:** *The submission of a TMP does not constitute approval for implementation of Temporary Traffic Management during the construction.* *A separate approval from the relevant road authorities is required such as Traffic Control Permit from TMR and Road Closure permit with Scenic Rim Regional Council prior to implementation of any temporary traffic management measures.*	
15	Submit to TMR for approval, a Quality Management Plan (QMP) for the works. The QMP must include, but us not limited to, the following details: a) Prepared generally in accordance with TMR Specification MRTS50 Specific Quality System Requirements; b) Identify all hold points, witness points and milestones for the works; c) Testing frequencies, lot sizes and numbers required for the works; d) Identify the suppliers for materials/products used as part of the works; e) Name and address of laboratory, accredited by the National Association of Testing Authorities (NATA), carrying out samplings; and f) Any other quality matters.	Prior to the Prestart Meeting.
16	Submit to TMR for approval, an Environment Management Plan (EMP) in accordance with TMR specification MRTS51 Environment Management.	Prior to the Prestart Meeting.

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No.	Conditions of Approval	Condition Timing
17	Submit to TMR for approval, an Erosion and Sediment Control Plan (ERSCP) in accordance with TMR's specification MRTS52 Erosion and Sediment Control. *Advisory Note: this may form part of the Environmental Management Plan.*	Prior to the Prestart Meeting.
18	The proposed final pavement design is to be submitted to TMR for approval prior to installation and only once the California Bearing Ratio values have been obtained on site and the pavement design has been assessed/revised accordingly by the RPEQ taking into consideration the existing road pavement condition with the pavement design suitable for a 20-year design life.	A minimum of five (5) business days prior to the commencement of the road pavement works.
C. Principal Contractor		
19	Submit to TMR, a completed 'Principal Contractors Details and Bond Estimate' using the attached form F5084. Please note that the nominated Principal Contractor must have sufficient expertise to carry out the proposed road works and include evidence they hold a current public liability insurance policy in the amount of not less than $20 million that notes TMR's interest on the policy for the duration of the works.	Prior to the Prestart Meeting.
20	Submit to TMR, a completed Deed of Indemnity for the Road Works using the attached form F5109.	Prior to the Prestart Meeting.
D. Prestart Meeting		
21	All documents/details nominated above are to be submitted to the nominated TMR project officer (via email to scr.calm@tmr.qld.gov.au) for review prior to the Pre-start meeting. A Pre-start meeting can be arranged after all documents have been received and accepted.	Prior to the Prestart Meeting.
22	A Prestart Meeting attended by the applicant's representative and/or the principal contractor and TMR's representative is to be held. The prestart meeting will include, but is not limited to, the following: a) Introduction of stakeholders. b) Review of Road Works approved drawings and management plans. c) Construction activities and program. d) Issues pertaining to a Zero Harm working environment. e) Advices and documentation required at the completion of the Road Works.	A minimum of five (5) business days prior to the commencement of the Road Works.

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No.	Conditions of Approval	Condition Timing
	It is intended an Authority to Commence Works will be issued following the Prestart Meeting. To arrange a Prestart Meeting, please contact the nominated TMR project officer.	
E. Practical Completion		
23	A Certificate of Practical Completion of the Road Works by a RPEQ is to be submitted. The Certificate of Practical Completion must include, but is not limited to, the following details: a) Testing and inspection plans b) Documentation of dimensional check c) As-constructed plans certified by a RPEQ. d) A TMR / Scenic Rim Regional Council Maintenance Responsibility Plan. ***Note:*** *Item d) above will require further confirmation from Scenic Rim Regional Council and TMR regarding specific assets within each authority's area of responsibility.*	Within five (5) days of the completion of the Road Works.
F. Maintenance Period		
24	A twelve (12) month maintenance period will apply to the Road Works. Any defect which manifests in the Road Works during the "on-maintenance" period must be rectified by the applicant at no cost to TMR before the road works will be accepted by TMR "off-maintenance".	Until TMR has formally accepted the Road Works "off-maintenance".

Important information for applicants

This approval does not authorise you to commence road works. Prior to any road works being undertaken within the boundary of the state-controlled road, the department must have issued you with an authority to commence works. The authority to commence works will not be issued until all the requirements of the above conditions have been fulfilled.

If any variations from the approved road works are required, further written approval from the department must first be obtained.

You should also be aware that you may have other statutory obligations. This conditional approval is for section 33 of the TIA only.

This document must be retained as evidence of the road works approval.

If you would like to discuss this application, please contact Ken Jensen, Principal Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6536.

Released under RTI - DTMR

Yours sincerely

N/R

Ken Jensen
Principal Engineer

Attachments: Attachment A - Bonding Factsheet
Attachment B - Form F5084 – Principal Contractor Details and Bond Estimate
Attachment C - Form F5109 – Deed of Indemnity
Attachment D - Form F5086 – Bank Guarantee Template
Attachment E - Form F5087 – Insurance Bond Template

Cc: N/R Nigel Fletcher and Associates

Released under RTI - DTMR

Queensland Government

Principal Contractor's Details and Bond Estimate

Application details

Department of Transport and Main Roads reference number

TMR

Pursuant to the conditional approval of the subject application, I nominate the following as the principal contractor for the works. I request that you deal with the principal contractor for all matters relating to the construction works.

Applicant's name

Applicant's signature

Date

/ /

Principal contractor's details

Legal name

Australian Business Number (ABN)

Registered address

Postcode

Physical address

Postcode

Telephone number (work hours)

Telephone number (after hours)

Mobile number

Email address

Primary contact person (overseer)

Position

Telephone number (work hours)

Telephone number (after hours)

Mobile number

Prequalification status (please check one)

Department of Transport and Main Roads prequalified ☐ Prequalified number

Not Department of Transport and Main Roads prequalified ☐ Attach evidence of:

i. previous construction works (preferably on a State-controlled road)
ii. ability to carry out the works in accordance with the approved plans, standards and specifications
iii. qualifications and experience of the primary contact person (overseer), including the Registered Professional Engineer of Queensland number.

Principal contractor's insurance and indemnity (please check if attached)

☐ Attached is the *Deed of Indemnity for road works on a State-controlled road* (form F5109) signed by the principal contractor.

☐ Attached is evidence of the principal contractor's public liability insurance policy of no less than $20 million that notes the Department of Transport and Main Roads interest on the policy.

Construction works costs

Estimated cost of the works

$

Bond amount

$

☐ Attached are details supporting the estimation of costs of works (for example, bill of quantities).

Privacy statement: The Department of Transport and Main Roads is collecting the information on this form for the purpose of managing the **road works** (under s33 of the *Transport Infrastructure Act 1994*) that are being undertaken by a third party with respect to an application for such works. The details will not be disclosed to any other third party without your consent unless required by law.

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Queensland Government

Deed of Indemnity for construction of road works on a State-controlled road

(section 33 of the *Transport Infrastructure Act 1994*)

Department of Transport and Main Roads reference number

TMR

Contractor (insert name of contractor carrying out works, as shown on public liability insurance)

Road works (insert description of works and location)

I/We the contractor named above:

a. indemnify the State of Queensland (represented by the department), its officers, employees and agents (the **Indemnified**) against any or all Losses suffered or incurred (except to the extent that any Losses are caused through the negligent act or omission of the Indemnified) in connection with the construction of the **road works**

b. acknowledge that provision of this indemnity is a condition of approval of the **road works** under section 33 of the *Transport Infrastructure Act*.

In this deed, '**Losses**' include liabilities, losses, damages, expenses and costs (including, legal costs on a full indemnity basis and whether incurred or awarded) of any kind or nature whether arising in contract or tort (including, but not limited to negligence) or under a statute, and also includes:

a. loss of profits, loss of revenue, loss of anticipated savings, loss of opportunity, pure economic loss and loss of data

b. any other consequential, special or indirect loss or damage.

Executed as a deed

For company:
Signed, sealed and delivered

on the _____ day of _____ 20 ___ in accordance with section 127 of the *Corporations Act 2001* (Cth).

_____
Signature of director

_____
Full name of director

_____
Signature of company secretary/director

_____
Full name of company secretary/director

For individual:
Signed, sealed and delivered by

_____

on the _____ day of _____ 20 ____ in the presence of:

_____
Signature of witness

_____
Full name of witness

_____
Signature

Released under RTI - DTMR

Queensland Government

Unconditional Insurance Bond for Security

Department of Transport and Main Roads reference number

Security number (Office use only)

This deed ('this undertaking') is made on the:

Between:

The State of Queensland acting through the Department of Transport and Main Roads

referred to as 'the Principal'

And:

Australian Company Number (ACN)

referred to as 'the Insurance Company' (include return address for security)

In relation to:

(ACN)

referred to as 'the Constructor'

Recitals

a. Pursuant to section 33 of the *Transport Infrastructure Act 1994*, the Principal has approved the Constructor to undertake works ('the Approval') described as follows:

Approval reference

Date of approval

referred to as 'the Approval'

to carry out the following work:

referred to as 'the Works'

b. The Constructor has requested that the Principal accept this Undertaking as the Security required by the Approval.

Released under RTI - DTMR

Privacy statement - The Department of Transport and Main Roads collects personal information on this form so that you may execute the deed. The information on this form is accessible by authorised departmental officers and external personnel who are engaged to administer the Contract who will not disclose your personal details to a third party without your consent unless required to do so by law.

continued page 2...

RTI-Release.pdf - Page Number: 422 of 448

Department of Transport and Main Roads reference number

This Deed witnesses–

1. At the request of the Constructor and in consideration of the Principal accepting this Undertaking as the Security required by the Approval, the Insurance Company unconditionally and irrevocably undertakes to pay on demand in writing and this Undertaking is produced for sighting to the Bank, any sum or sums which may from time to time be demanded by the Principal to a maximum aggregate sum ('the Maximum Sum') of–

   Maximum Sum in figures: $

   Maximum Sum in words:

2. The Insurance Company's liability under this Undertaking is a continuing liability and is to continue until notification has been received from the Principal that the Maximum Sum is no longer required by the Principal or until this Undertaking is returned to the Insurance Company or until payment to the Principal by the Insurance Company of the whole of the Maximum Sum. The Principal must return this Undertaking to the Insurance Company when the Insurance Company's liability under this Undertaking has been completely discharged.
3. Should the Insurance Company be notified in writing, purporting to be signed by or on behalf of the Principal, that the Principal desires payment to be made of the whole or any part or parts of the Maximum Sum and this Undertaking is produced for sighting to the Insurance Company it is unconditionally and irrevocably agreed that the Insurance Company will make the payment or payments to the Principal immediately and without reference to the Constructor or to any other person and notwithstanding any notice given by the Constructor not to pay same. The authority of the person signing the demand need not be proved.
4. The Insurance Company's liability under this Undertaking may be terminated at any time upon payment to the Principal (without the Insurance Company being required to do so) of the Maximum Sum, less any amount or amounts the Insurance Company may previously have paid under this Undertaking, or such lesser sum as may be specified by the Principal, and thereupon the liability of the Insurance Company hereunder shall immediately cease and determine.
5. This Undertaking and the Insurance Company's liability under it–
   a. is not contingent upon, or discharged or impaired by reason of, any other right or obligation appearing in or arising under any other document
   b. shall not be discharged or impaired by reason of any variation (with or without the knowledge or consent of the Insurance Company) to any of the provisions of the Approval, the work under the Approval, the Works or any acts or things to be executed, performed or done under the Approval, or by reason of any breach or breaches of the Approval by the Constructor or the Principal.
6. The benefit of this Undertaking is not assignable by the Principal.
7. This Undertaking shall be governed by the laws of the State of Queensland.

Dated at: (Place) this (Day) day of (Month) (Year)

Executed as a Deed on the date first appearing above.

Signed, sealed and delivered for and on behalf of

Name and branch of Insurance Company | (ACN) | Company Seal (where applicable)

by its duly authorised attorney

Attorney's name | Date executed

Attorney's position | Attorney's signature

pursuant to a power of attorney dated

Date of power of attorney

and the attorney hereby declares that he/she has not received notice of revocation of the power of attorney

in the presence of

Witness' name | Witness' signature

Date witnessed

See page 1 for privacy statement.

RTI-Release.pdf - Page Number: 423 of 448

Released under RTI - DTMR

Queensland Government

Unconditional Bank Guarantee for Security

Department of Transport and Main Roads reference number

Security number (Office use only)

This deed ('this undertaking') is made on the:

Between:

The State of Queensland acting through the Department of Transport and Main Roads

referred to as 'the Principal'

And:

Australian Company Number (ACN)

referred to as 'the Bank' (include address for Return of Security)

In relation to:

ACN

referred to as 'the Constructor'

Recitals

a. Pursuant to section 33 of the *Transport Infrastructure Act 1994*, the Principal has approved the Constructor to undertake works ('the Approval') described as follows:

Approval reference

Date of approval

referred to as 'the Approval'

to carry out the following work:

referred to as 'the Works'

b. The Constructor has requested that the Principal accept this Undertaking as the Security required by the Approval.

Released under RTI - DTMR

Privacy statement - The department collects personal information on this form so that you may execute the deed. The information on this form is accessible by authorised departmental officers and external personnel who are engaged to administer the Contract who will not disclose your personal details to a third party without your consent unless required to do so by law.

continued page 2...

Departmental reference number

This Deed witnesses–

1. At the request of the Constructor and in consideration of the Principal accepting this Undertaking as the Security required by the Approval, the Bank unconditionally and irrevocably undertakes to pay on demand in writing any sum or sums which may from time to time be demanded by the Principal to a maximum aggregate sum ('the Maximum Sum') of–

   Maximum Sum in figures | Maximum Sum in words

   $

2. The Bank's liability under this Undertaking is a continuing liability and is to continue until notification has been received from the Principal that the Maximum Sum is no longer required by the Principal or until this Undertaking is returned to the Bank or until payment to the Principal by the Bank of the whole of the Maximum Sum.
3. Should the Bank be notified in writing, purporting to be signed by or on behalf of the Principal, that the Principal desires payment to be made of the whole or any part or parts of the Maximum Sum, it is unconditionally and irrevocably agreed that the Bank will make the payment or payments to the Principal immediately and without reference to the Constructor or to any other person and notwithstanding any notice given by the Constructor not to pay same. The authority of the person signing the demand need not be proved.
4. The Bank's liability under this Undertaking may be terminated at any time upon payment to the Principal (without the Bank being required to do so) of the Maximum Sum, less any amount or amounts the Bank may previously have paid under this Undertaking, or such lesser sum as may be specified by the Principal, and thereupon the liability of the Bank hereunder shall immediately cease and determine.
5. This Undertaking and the Bank's liability under it–
   a. is not contingent upon, or discharged or impaired by reason of, any other right or obligation appearing in or arising under any other document
   b. shall not be discharged or impaired by reason of any variation (with or without the knowledge or consent of the Bank) to any of the provisions of the Contract, the work under the Contract, the Works or any acts or things to be executed, performed or done under the Contract, or by reason of any breach or breaches of the Contract by the Constructor or the Principal.
6. The benefit of this Undertaking is not assignable by the Principal.
7. This Undertaking shall be governed by the laws of the State of Queensland.

Dated at: Place | this Day | day of Month | Year

Executed as a Deed on the date first appearing above

Signed, sealed and delivered for and on behalf of

Name and branch of Bank | ACN | Company Seal (where applicable)

by its duly authorised attorney

Attorney's name | Date executed

/ /

Attorney's position | Attorney's signature

pursuant to a power of attorney dated

Date of power of attorney

/ / and the attorney hereby declares that he/she has not received notice of revocation of the power of attorney

in the presence of

Witness' name | Witness' signature

Date witnessed

/ /

See page 1 for privacy statement.

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Bonds or Security Deposits required for a Works Approval (under the *Transport Infrastructure Act* 1994)

All proposed works by third parties within the state-controlled road corridor must be constructed in accordance with the Department of Transport and Main Roads' (TMR) standards and specifications for the works. To ensure that the required works are constructed to TMR's standards, a bond or security deposit may be required as a condition of the works approval.

Approval to construct works

The conditional works approval does not authorise works to commence.

If a bond is required, it will be included as a condition of the works approval. Works may only commence when **ALL** conditions of the conditional approval have been fulfilled and TMR has issued an 'Authority to Commence Works'

What you need to provide

If the conditional works approval requires a bond to be provided to TMR, the bond can be lodged with the department in a number of formats including;

- cash or bank cheque;
- bank guarantee; or
- insurance bond.

TMR has approved forms for bank guarantees and insurance bonds. These forms will be provided by your local TMR office.

The use of alternate forms is generally not acceptable.

Amount of security

The amount of security will be based on the total estimated cost of the works within the state-controlled road. The applicant will be required to provide TMR with an estimate of the total costs of the works, including all materials, traffic management, service relocations, labour and plant hire.

The amount of bond is determined by the level of risk TMR is exposed to while the works are being undertaken and provide incentive for the works to be finalised without delay or outstanding issues.

The table is a guide in determining the amount of bond required, however for specific advice, please contact the relevant TMR office for assistance.

Bond as % of the cost of the construction of the conditioned works	Works completed in accordance with the timing conditioned	Works where TMR accepts a relaxation in the conditioned timing
Prequalified Constructor	25%	100%
Accepted Non-Prequalified Constructor	65%	125%
Other Constructor	115%	200%

The advantages of using a prequalified constructor include:

- knowledge and experience of TMR standards and procedures;
- financial stability; and
- experience in undertaking works on a state-controlled road.

Information about becoming a Prequalified Constructor is available by contacting: contractorprequal@tmr.qld.gov.au

Evidence of Construction of the Works and return of security

TMR will need you to provide evidence that the works have been constructed in accordance with TMR standards and specifications. This may include the provision of "as constructed" drawings and quality documentation (i.e. pavement testing, electrical certification) and ownership.

TMR will return a bond or other agreed security once the conditions under which the bond is held are fulfilled. The return of any bond will be assessed on a case by case basis. Applicants are encouraged to work with TMR officers to ensure that all requirements are complied with in full.

Important Notes:

1. It is important to read and understand all approvals given to you by TMR as you must comply with them.
2. If you do not understand something or have any additional questions, contact the TMR office that issued the approval.

V3.1 - December 2023

Queensland Government

Released under RTI - DTMR

Contact details for Transport and Main Roads offices.

To find out which office is your local office, call 132380 or go to www.tmr.qld.gov.au/About-us/Contact-us/In-person/Roads-offices.aspx. A list of the contact details for each district/region is provided below:

Office	Email	Phone
Barcaldine	barcaldine.office@tmr.qld.gov.au	4651 2777
Rockhampton	corridormanagement@tmr.qld.gov.au	4931 1559
Roma	downsswr.office@tmr.qld.gov.au	4622 9511
Toowoomba	downsswr.office@tmr.qld.gov.au	4639 0777
Cairns	cairns.office@tmr.qld.gov.au	4045 7144
Mackay	mackay.whitsunday.idas@tmr.qld.gov.au	4951 8555
Brisbane	metropolitan.idas@tmr.qld.gov.au	3066 5499
Maroochydore	north.coast.idas@tmr.qld.gov.au	5451 7055
Cloncurry	cloncurry.office@tmr.qld.gov.au	4769 3200
Townsville	towdawe@tmr.qld.gov.au	4421 8700
Gold Coast	scrcmallocations@tmr.qld.gov.au	5563 6600
Bundaberg	WBB.IDAS@tmr.qld.gov.au	4154 0200

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From: "eDAMdonotreply" <donotreply@mail.edam.tmr.qld.gov.au>
Sent: 02/09/2025 05:34:17 PM
To: N/R gcecontractors.com
CC: Ken Jensen <ken.w.jensen@tmr.qld.gov.au> ; Gold Coast <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307 (Reference Number MC.Bn13/00012)

Attachments:

- TIA - Conditional Approval - s33 - Major Works_1.pdf
- F5084 - Principal Contractor Details and Bond Estimate.pdf
- F5109 - Deed of Indemnity.pdf
- F5087 - unconditional insurance bond for security.pdf
- F5086 - unconditional bank guarantee for security.pdf
- Bonding Works Factsheet v3.1 December 2023.pdf

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA - Conditional Approval - s33 - Major Works_1.pdf] from the Department of Transport and Main Roads.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

Released under RTI - DTMR

From: "eDAMdonotreply" <donotreply@mail.edam.tmr.qld.gov.au>
Sent: 02/09/2025 05:34:17 PM
To: "N/R (Nigel Fletcher & Associates Pty Ltd)" N/R @nigelfletcherassociates.com.au>
CC: Ken Jensen <ken.w.jensen@tmr.qld.gov.au> ; Gold Coast <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Attachments:

- TIA - Conditional Approval - s33 - Major Works_1.pdf
- F5084 - Principal Contractor Details and Bond Estimate.pdf
- F5109 - Deed of Indemnity.pdf
- F5087 - unconditional insurance bond for security.pdf
- F5086 - unconditional bank guarantee for security.pdf
- Bonding Works Factsheet v3.1 December 2023.pdf

Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA - Conditional Approval - s33 - Major Works_1.pdf] from the Department of Transport and Main Roads.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

Released under RTI - DTMR

From: N/R
To: Ken W Jensen; N/R igelfletcherassociates.com.au
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307
Date: Tuesday, 2 September 2025 8:42:11 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.png

Ken,

Please confirm we will have the approval for the intersections today.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: N/R
Sent: Monday, 25 August 2025 10:40 AM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; N/R nigelfletcherassociates.com.au
N/R @nigelfletcherassociates.com.au>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Thanks for the update.

Released under RTI - DTMR

Kind Regards,

N/R | **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Sent: Friday, 22 August 2025 4:12 PM
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R

I confirm that the revised full set of drawings has been received and uploaded into our system. I am currently reviewing these drawings and, pending there being no outstanding issues, I hope to issue a conditional approval early next week.

Please Note – due to a minor shortage of Engineers in our team at the current point in time, the review has been slightly delayed, but as always we are endeavouring to process this approval as soon as possible.

Thank you for the detailed response to the previous IR points (it certainly makes it easier to review). I note that there no design development report has been submitted as previously requested, hopefully it is not required for this scale of project to finalise the approval. However, your assessment of sight distance availability submitted with the response is acknowledged.

I will make further contact if I have any queries or require clarification, otherwise expect to see an approval early next week.

Released under RTI - DTMR

Kind regards,

Ken Jensen RPEQ
Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Friday, 22 August 2025 11:32 AM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Could you please confirm that you have received our revised full drawing set via the one drive link you sent me and the revised Prelim Pavement Report and Drg sent below.

Could you also please advise likely timing on your response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: N/R @gcecontractors.com>
Sent: Friday, August 22, 2025 11:22:59 AM
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com> N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Released under RTI - DTMR

Can you provide an update on the query below.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From: N/R
Sent: Wednesday, 20 August 2025 9:43 AM
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R N/R gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Can I please have an update on when we will have the intersection drawings approved.

Kind Regards,

N/R **| GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From N/R
Sent: Friday, 15 August 2025 7:27 AM
To N/R nigelfletcherassociates.com.au < N/R @nigelfletcherassociates.com.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R gcecontractors.com>; N/R N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Ken,

Could you please confirm when we can expect a response on the approved drawings, on the basis that DTMR are satisfied the latest revisions have addressed all outstanding items.

Kind Regards,

N/R **GCE Contractors Pty Ltd**
Operations Manager

Mobile: N/R
Email: N/R @gcecontractors.com
Website: www.gcecontractors.com.au

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From N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 5:43 PM
To: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Cc: N/R @gcecontractors.com>; N/R
N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Thanks Ken

That all appears to have worked well from this end and the full set of Drawings and Preliminary Pavement Design Report were uploaded earlier.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>
Date: Thursday, 14 August 2025 at 10:24 am
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Cc: N/R @gcecontractors.com> N/R
N/R @gcecontractors.com>
Subject: RE: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

N/R
Please find below a link to a onedrive folder where you should be able to upload the drawings (I am not real good with onedrive sharing so hopefully this works).

N/R
Please feel free to contact me with any queries.

Kind regards,

Ken Jensen RPEQ

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Principal Engineer (Corridor Management) | South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department of Transport and Main Roads
P 07 5563 6536 **M** N/R
36-38 Cotton Street | Nerang QLD 4211
PO Box 442 | Nerang QLD 4211

From N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au>
Sent: Thursday, 14 August 2025 7:23 AM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Ken W Jensen <ken.w.jensen@tmr.qld.gov.au> N/R
N/R @gcecontractors.com> N/R @gcecontractors.com>
Subject: Re: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

Hi Ken

Please find our response to your Request Further information of 7th May 2025.

Please forward a one drive link so we can upload the drawings and report referred to in this response. Thank you.

Kind Regards

N/R
Director

NIGEL FLETCHER & ASSOCIATES PTY LTD
ENGINEERS - PROJECT MANAGERS

E: N/R @nigelfletcherassociates.com.au
M: N/R

From: eDAMdonotreply <donotreply@mail.edam.tmr.qld.gov.au>
Date: Wednesday, 7 May 2025 at 3:26 pm
To: N/R nigelfletcherassociates.com.au N/R @nigelfletcherassociates.com.au> N/R
N/R (GCE Contractors) N/R @gcecontractors.com>
Cc: ken.w.jensen@tmr.qld.gov.au <ken.w.jensen@tmr.qld.gov.au>, scr.calm@tmr.qld.gov.au <scr.calm@tmr.qld.gov.au>
Subject: TMR24-042833 - TMR correspondence for Christensen Road, Coleyville QLD 4307

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Our Reference: TMR24-042833
Application Street Address: Christensen Road, Coleyville QLD 4307

Please see the attached [TIA_Information Request_s33_1.pdf] from the Department of Transport and Main Roads.

PLEASE DO NOT REPLY TO THIS EMAIL AS THE MAILBOX IS NOT MONITORED

If you require any further information or clarification, please contact Gold Coast TMR Region on (07) 5563 6600, or via email scr.calm@tmr.qld.gov.au who will be able to assist.

Regards,
eDAM System | Department of Transport and Main Roads

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Opinions contained in this email do not necessarily reflect the opinions of the Department of Transport and Main Roads, or endorsed organisations utilising the same infrastructure.

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Our ref TMR24-042833
Your ref MC.Bn13/00012 / 210173P
Enquiries Ken Jensen

Queensland Government

Department of
Transport and Main Roads

2 September 2025

GCE Contractors Pty Ltd
13a/191 Hedley Avenue
Hendra QLD 4011

Dear N/R

Conditional approval of road works at Christensen Road, Coleyville QLD 4307

This is not an authorisation to commence work on a state-controlled road

I refer to your application for road works made pursuant to section 33 of the *Transport Infrastructure Act 1994* (TIA) for works at Christensen Road, Coleyville QLD 4307.

The Department of Transport and Main Roads (the department) has assessed your application, including the following plans prepared by Nigel Fletcher and Associates:

Dwg No.	Drawing/Report title	Date	Version
C800	Cover Sheet and Location Plan	13.08.25	E
C801	Standard Notes	13.08.25	E
C820	Demolition Layout Plan	13.08.25	C
C825	25m B-Double Swept Path Layout Plan	13.08.25	D
C835	Intersection Erosion and Sediment Control Plan	13.08.25	D
C836	Intersection Erosion and Sediment Control Details	13.08.25	D
C840	Intersection Earthworks Layout Plan	13.08.25	C
C860	Road Intersection Overall Layout Plan	13.08.25	E
C861	Road Intersection Layout Plan – Sheet 1 of 2	13.08.25	E
C862	Road Intersection Layout Plan – Sheet 2 of 2	13.08.25	E
C863	Rosewood – Warrill View Road Details	13.08.25	C
C864	Rosewood – Warrill View Road Longitudinal Sections	13.08.25	E
C865	Rosewood – Warrill View Road Cross Sections – Sheet 1 of 3	13.08.25	E
C866	Rosewood – Warrill View Road Cross Sections – Sheet 2 of 3	13.08.25	E
C867	Rosewood – Warrill View Road Cross Sections – Sheet 3 of 3	13.08.25	E

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Program Delivery and Operations
South Coast Region
36-38 Cotton Street Nerang QLD 4211
PO Box 442 Nerang QLD 4211

Telephone +61 (07) 5563 6536
Website www.tmr.qld.gov.au
Email scr.calm@tmr.qld.gov.au
ABN: 39 407 690 291

Dwg No.	Drawing/Report title	Date	Version
C868	Christensen Road Longitudinal Section	13.08.25	E
C869	Christensen Road Cross Sections	13.08.25	C
C870	Intersection Signage Layout Plan – Sheet 1 of 2	13.08.25	E
C871	Intersection Signage Layout Plan – Sheet 2 of 2	13.08.25	E
C875	Intersection Pavement Layout Plan – Sheet 1 of 2	14.08.25	D
C876	Intersection Pavement Layout Plan – Sheet 2 of 2	11.08.25	C
C880	Intersection Sight Line Plan	13.08.25	A
C890	Catchment Layout Plan	13.08.25	D
C891	Stormwater Layout Plan – Sheet 1 of 2	13.08.25	C
C892	Stormwater Layout Plan – Sheet 1 of 2	13.08.25	C
C895	Stormwater Sections – Sheet 1 of 2	13.08.25	E
C896	Stormwater Sections – Sheet 2 of 2	13.08.25	E
C897	Stormwater Longitudinal Sections	13.08.25	C
C898	Stormwater Calculations Table	13.08.25	C
C899	Stormwater Details	13.08.25	B

The department has decided to approve the application, subject to the following conditions:

No.	Conditions of Approval	Condition Timing
A. General		
1	Road Works comprising upgrading of the Christensen Road intersection on Rosewood Warrill View Road to include channelised left turn lane and basic right turn treatments must be provided generally in accordance with the accepted design drawings listed above. Any major design changes are to be submitted to the Department for acceptance prior to implementation. *Note: The department does not accept any responsibility for the accuracy of such plans and specifications as submitted. It is assumed that the applicant has executed sound engineering judgement when preparing the plans and specifications and that all the site conditions and the department's requirements have been taken into account.* ***Note - Any deficiencies which come to the attention of the department during construction shall be rectified/addressed accordingly by the applicant at no cost to TMR.***	Construction of road works must not commence until the Prestart meeting has concluded and an 'Authority to Commence' has been issued.

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No.	Conditions of Approval	Condition Timing
2	**Design Amendments / Comments** 1) With reference to the roadworks layout plan and associated cross sections, it is indicated that a 1.0m wide shoulder is proposed outside the 3.0m widening for the BAR treatment. As per the AGRD requirements, a standard BAR treatment is a 3.0m wide (sealed) shoulder to provide a total width of 6.5m from centre line. An additional shoulder outside this sealed shoulder is not required. The roadworks profile between approximately CH45 and CH250 (LHS) may be amended to remove this additional 1.0m shoulder. Amended design drawings incorporating the reduced shoulder width (if adopted) are to be provided to the department for review and acceptance prior to construction commencing. 2) Pavement at Bus stops • The pavement type 1 (northbound) / 3 (southbound) profile should be continued for the width of the sealed shoulder (1.0m) prior to changing to pavement type 4 at both the northbound and southbound bus stops. • Due to being on the top side of the superelevation, a subsoil drain would not be required at the interface between pavement type 3 and type 4 at the southbound bus stop. • Due to being on the bottom side of the crossfall and being shallower pavement for the bus stop, a subsoil drain will be required at the interface between pavement type 1 and type 4 at the northbound bus stop, unless the pavement profile for the bus stop is altered to match the adjacent type 1 pavement. 3) It is noted that no design development report has been submitted to support the current design. Recognising that the scale of works is to prove a left turn lane and BAR widening only for the through road and does not involve upgrading the standard of the through road this is acceptable. However, as a minimum, a RPEQ certified Roadside Hazard Risk assessment must be submitted, confirming that the combined risk score for the submitted design is below the TMR threshold of 0.6. This risk score must be completed in accordance with AGRD Part 6 and associated TMR Supplement and must consider major roadside hazards including embankment batter / swale drain, culvert headwalls, and any nearby aboveground utility service infrastructure.	Prior to commencement of works.

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No.	Conditions of Approval	Condition Timing
3	The Road Works are to be constructed in accordance with TMR's Road Planning and Design Manual 2nd Edition, Road Drainage Manual, Pavement Design Manual, TMR's Technical Specifications, Standards, Standard Drawings Roads and local government requirements. All TMR Technical Specifications are to be read in conjunction with 'MRTS01 Introduction to Technical Specifications' (including annexure).	At all times during construction.
4	Please Note - The department would like to remind you of the requirement to ensure that prior to conducting any ground disturbance activities, you have taken all necessary steps and put in place appropriate measures to ensure compliance with the *Aboriginal Cultural Heritage Act (Qld) 2003 (ACHA 2003)*. Visit the DATSIP website (https://www.datsip.qld.gov.au) for more information on the *ACHA 2003* and to access the Cultural Heritage Database and Register.	Prior to commencement of works.
5	All works within the State-controlled road must be supervised by a professional civil engineer, i.e., must be a Registered Professional Engineer of Queensland (RPEQ) and eligible for corporate membership of the Institution of Engineers Australia. The nominated Supervising Engineer is responsible for implementing appropriate inspection systems for the proposed works within the State-controlled road to ensure that all works are constructed in accordance with the engineering drawings and specifications. Notwithstanding the above requirement, TMR's Works Inspector will conduct inspections throughout the period of the works. All certificates of tests carried out for works within State-controlled road boundaries are to be made available to the TMR Works Inspector upon request. No paving, priming or sealing shall be carried out until the Supervising Engineer and TMR's Works Inspector have assessed the finished subgrade, finished pavement, and any job specific requirements. In accordance with Specifications and Annexures applying to the particular works, tests may be carried out at the inspections.	At all times during construction.
6	This conditional approval is valid for one (1) year from the date of this letter unless otherwise an 'Authority to Commence' letter and a Pre-start meeting has been completed.	At all times.
7	The Road Works are to be constructed at no cost to TMR.	At all times.

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No.	Conditions of Approval	Condition Timing
8	TMR officers are to be allowed access to the project site for the purpose of ensuring compliance with TMR's conditions of approval.	At all times during construction.
9	Any damage to the existing road infrastructure caused by carrying out the Road Works is to be rectified/repaired at no cost to TMR.	At all times during construction and to be maintained during the "on-maintenance" period.
10	The Road Works must be maintained to a safe trafficable standard by the applicant at no cost to TMR.	At all times.
B. Documents for Approval		
11	Nominate a RPEQ who will inspect, certify, and issue RPEQ certified as-constructed drawings and post construction documentation at the completion of the works. The name, contact details and RPEQ No. for the supervising professional engineer must be provided to TMR. *Note: it is the responsibility of the nominated RPEQ to ensure the certified as-constructed drawings are consistent with the final completed works.*	Prior to the Prestart Meeting and at all times during construction.
12	A performance bond (security) calculated in accordance with the attached "Bonds or Security Deposits required by a Road Works Approval (under section 33 of the Transport Infrastructure Act 1994)" is to be lodged with the TMR office in Nerang. The Security is applied for the purpose of: i. Ensuring the due and proper performance and completion of works by the applicant. ii. Recovering the cost of any urgent action to protect the works, other property, or people if the applicant or the nominated site representative fails to take the necessary action. If time permits, the TMR representative will give the applicant, or the nominated site representative, prior written notice of Main Roads intention to take the aforementioned action. The performance bond provided must be one of the following: a) Cash; b) An unconditional, irrevocable bank guarantee using TMR form F5086 (attached) for a bank approved by TMR; or c) An unconditional, irrevocable insurance bond using TMR form F5087 (attached) from an insurance company approved by TMR.	Prior to the Prestart Meeting.

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No.	Conditions of Approval	Condition Timing
	Fifty percent of the bond is intended to be released at satisfactory completion of the works (Practical Completion). The remaining bond shall be released at the end of the maintenance period (upon achievement of the completed works 'off Maintenance'). **Advisory Notes:** • An appropriately certified estimate of the project value of the works within the State-controlled road, including terms and schedule of rates is to be submitted to TMR for reference prior to lodgement of any bond to TMR. • Any non-cash performance bond is to be provided as two parts, each for 50% of the total bond amount. • If form F5086 or F5087 is used, the original signed forms must be lodged at TMR's Nerang office prior to requesting a Prestart meeting. Copies of these documents will not be accepted. • If a cash bond is proposed, please contact TMR for instructions.	
13	Submit to TMR for approval, a Construction Management Plan (CMP) for the works. The CMP is to detail what steps are necessary to protect the public and how they will be implemented during construction of the works. The CMP must include, but is not limited to, the following details:- (a) A program schedule of works (including staging if necessary); (b) Location and standard of construction access; (c) Location of any temporary material stockpiles; (d) Key Personnel and their roles and responsibilities; and (e) Stakeholder consultation plan.	Prior to the Prestart Meeting.
14	Submit to TMR for approval, a Traffic Management Plan (TMP) prepared by an accredited Traffic Management Designer for the Road Works. The TMP must address the following: • TMR's Specification MRTS02; • TMR's Queensland Guide to Temporary Traffic Management (QGTTM); • TMR's Queensland Manual of Uniform Traffic Control Devices Part 3: Traffic Control for Works on Roads (MUTCD); • TMR's Guideline Traffic Management at Works on Roads; • Austroads Guide to Temporary Traffic Management (AGTTM); and	Prior to the Prestart Meeting.

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No.	Conditions of Approval	Condition Timing
	• Australian Standard AS1742.3: Manual of uniform Traffic Control Devices. The TMP must also include, but is not limited to, the following details: a) Work site access/Site Plan; b) Stages of road works; c) Relevant Traffic Guidance Scheme(s) for each stage that address during and aftercare periods; d) Storing of Plant and materials; and e) And any other matters relevant to the works. **Advisory Notes:** *The submission of a TMP does not constitute approval for implementation of Temporary Traffic Management during the construction.* *A separate approval from the relevant road authorities is required such as Traffic Control Permit from TMR and Road Closure permit with Scenic Rim Regional Council prior to implementation of any temporary traffic management measures.*	
15	Submit to TMR for approval, a Quality Management Plan (QMP) for the works. The QMP must include, but us not limited to, the following details: a) Prepared generally in accordance with TMR Specification MRTS50 Specific Quality System Requirements; b) Identify all hold points, witness points and milestones for the works; c) Testing frequencies, lot sizes and numbers required for the works; d) Identify the suppliers for materials/products used as part of the works; e) Name and address of laboratory, accredited by the National Association of Testing Authorities (NATA), carrying out samplings; and f) Any other quality matters.	Prior to the Prestart Meeting.
16	Submit to TMR for approval, an Environment Management Plan (EMP) in accordance with TMR specification MRTS51 Environment Management.	Prior to the Prestart Meeting.

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No.	Conditions of Approval	Condition Timing
17	Submit to TMR for approval, an Erosion and Sediment Control Plan (ERSCP) in accordance with TMR's specification MRTS52 Erosion and Sediment Control. *Advisory Note: this may form part of the Environmental Management Plan.*	Prior to the Prestart Meeting.
18	The proposed final pavement design is to be submitted to TMR for approval prior to installation and only once the California Bearing Ratio values have been obtained on site and the pavement design has been assessed/revised accordingly by the RPEQ taking into consideration the existing road pavement condition with the pavement design suitable for a 20-year design life.	A minimum of five (5) business days prior to the commencement of the road pavement works.
C. Principal Contractor		
19	Submit to TMR, a completed 'Principal Contractors Details and Bond Estimate' using the attached form F5084. Please note that the nominated Principal Contractor must have sufficient expertise to carry out the proposed road works and include evidence they hold a current public liability insurance policy in the amount of not less than $20 million that notes TMR's interest on the policy for the duration of the works.	Prior to the Prestart Meeting.
20	Submit to TMR, a completed Deed of Indemnity for the Road Works using the attached form F5109.	Prior to the Prestart Meeting.
D. Prestart Meeting		
21	All documents/details nominated above are to be submitted to the nominated TMR project officer (via email to scr.calm@tmr.qld.gov.au) for review prior to the Pre-start meeting. A Pre-start meeting can be arranged after all documents have been received and accepted.	Prior to the Prestart Meeting.
22	A Prestart Meeting attended by the applicant's representative and/or the principal contractor and TMR's representative is to be held. The prestart meeting will include, but is not limited to, the following: a) Introduction of stakeholders. b) Review of Road Works approved drawings and management plans. c) Construction activities and program. d) Issues pertaining to a Zero Harm working environment. e) Advices and documentation required at the completion of the Road Works.	A minimum of five (5) business days prior to the commencement of the Road Works.

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No.	Conditions of Approval	Condition Timing
	It is intended an Authority to Commence Works will be issued following the Prestart Meeting. To arrange a Prestart Meeting, please contact the nominated TMR project officer.	
E. Practical Completion		
23	A Certificate of Practical Completion of the Road Works by a RPEQ is to be submitted. The Certificate of Practical Completion must include, but is not limited to, the following details: a) Testing and inspection plans b) Documentation of dimensional check c) As-constructed plans certified by a RPEQ. d) A TMR / Scenic Rim Regional Council Maintenance Responsibility Plan. ***Note:*** *Item d) above will require further confirmation from Scenic Rim Regional Council and TMR regarding specific assets within each authority's area of responsibility.*	Within five (5) days of the completion of the Road Works.
F. Maintenance Period		
24	A twelve (12) month maintenance period will apply to the Road Works. Any defect which manifests in the Road Works during the "on-maintenance" period must be rectified by the applicant at no cost to TMR before the road works will be accepted by TMR "off-maintenance".	Until TMR has formally accepted the Road Works "off-maintenance".

Important information for applicants

This approval does not authorise you to commence road works. Prior to any road works being undertaken within the boundary of the state-controlled road, the department must have issued you with an authority to commence works. The authority to commence works will not be issued until all the requirements of the above conditions have been fulfilled.

If any variations from the approved road works are required, further written approval from the department must first be obtained.

You should also be aware that you may have other statutory obligations. This conditional approval is for section 33 of the TIA only.

This document must be retained as evidence of the road works approval.

If you would like to discuss this application, please contact Ken Jensen, Principal Engineer by email at scr.calm@tmr.qld.gov.au or on (07) 5563 6536.

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Yours sincerely

N/R

Ken Jensen
Principal Engineer

Attachments: Attachment A - Bonding Factsheet
Attachment B - Form F5084 – Principal Contractor Details and Bond Estimate
Attachment C - Form F5109 – Deed of Indemnity
Attachment D - Form F5086 – Bank Guarantee Template
Attachment E - Form F5087 – Insurance Bond Template

Cc: N/R Nigel Fletcher and Associates

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N/R

From: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Sent: Wednesday, 3 September 2025 4:18 PM
To: Callum G Walters <Callum.G.Walters@tmr.qld.gov.au>
Cc: Casandra N Smith <Casandra.N.Smith@tmr.qld.gov.au>; Ken W Jensen <ken.w.jensen@tmr.qld.gov.au>; Sumin Shrestha <Sumin.Z.Shrestha@tmr.qld.gov.au>
Subject: FW: Formal Complaint - Unauthorized and Dangerous Road Works Activities - Rosewood-Warrillview Road, Mount Walker

Hi Callum,

Further to the query submitted earlier, please find below the relevant information along with attached photographs for your reference and review.

Kind Regards,

Emily Hughes
Program Support Officer (Corridor and Land Management), South Coast Region
Program Delivery and Operations | Infrastructure Management and Delivery
Department Transport and Main Roads
P 07 5563 6600
36-38 Cotton Street, Nerang, Qld 4211

DELIVERING FOR QUEENSLAND | Queensland Government

This email is monitored by several team members, including part-time staff.

From: Metropolitan Corridor Management <Metropolitan_Corridor_Management@tmr.qld.gov.au>
Sent: Wednesday, 3 September 2025 3:25 PM
To: SCR Corridor and Land Management Inbox <scr.calm@tmr.qld.gov.au>
Cc: Metropolitan Corridor Management <Metropolitan_Corridor_Management@tmr.qld.gov.au>
Subject: FW: Formal Complaint - Unauthorized and Dangerous Road Works Activities - Rosewood-Warrillview Road, Mount Walker

Hi Team,

Further to my email from earlier today, the customer has provided more detail and photos of the vegetation clearing.

Kind regards,

Simon Denny
Project Officer | Metropolitan Region
Program Delivery & Operations Branch | Infrastructure Management and Delivery Division | Department of Transport and Main Roads

Brisbane City - 313 Adelaide Street | 313 Adelaide Street | Brisbane City Qld 4000
PO Box 70 | Spring Hill Qld 4004
P: (07) 30666758 | F: (07) 32206071
E: simon.z.denny@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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