

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Sunday, 30 June 2019 1:24 PM
To: roadtektebrisbanecosting; Albert D Martin; Colin W Otto
Subject: Invoice 00006843; From Webby's Pty Ltd
Attachments: INV00006843.pdf

Please contact Tony Webb via email tony@webbys.net.au if you have any queries with this invoice.
Regards
Tony Webb



WEBBY'S
The Cabling Specialists Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 12:49 PM
To: Colin W Otto; Lindsay Harbour
Cc: Albert D Martin
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

I have some labels here that we will send out and can be marked with details on site, we use them on other projects and they work well.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Released under RTI - DMR

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 12:46 PM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

We can make them on site?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638

M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Lindsay Harbour <lindsay@ifspty.com.au>
Sent: Monday, 15 July 2019 12:46 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Re: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

No problem, if someone tell us what to put on them they will be done

Regards

Lindsay Harbour

[4 Part 4 s.6 Pers](#)

On 15 Jul 2019, at 12:37 pm, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Can we also please ensure that we have a permanent label maker to label the patch leads as we go?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 9:43 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Importance: High

Hi Col,

That's no problem at all I'll get the order underway now,

<image001.jpg>

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 9:06 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au

Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Tony/Lindsay,

Albert will be sending you soon the PO to proceed with this work. There is a quantity change in the number of cores that we need to test, and also the number of patches. Instead of 2 core and 1 patch lead, now we need to do 4 cores and 2 patch leads. I assume this only affects the materials, as the time will only marginally increase, and you will bill by the hour.

Can you please proceed with procuring the patch leads, and advise when they will be received? We need about a week's notice to arrange Transurban permits, so need to know exactly when you are available to do this. Please let me know as soon as possible.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Albert D Martin

Sent: Thursday, 6 June 2019 5:32 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Colin

This is the quote form Webbys

Transurban Permits

Will need to know the location you are working as I require to submit TGS

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS

RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: [Part 4 s.6 Per](#)

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au

<image002.png>

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Sent: Thursday, 6 June 2019 5:29 PM

To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Al,

Sorry for the delay Refuse Sch.4 Part 4 s.6 Personal inform please see the breakdown and costs below and let me know if you need anything further.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$3800 plus GST.

<image001.jpg>

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Thursday, 6 June 2019 1:43 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Tony Did you see this?

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 4 Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au

<image002.png>

From: Colin W Otto
Sent: Wednesday, 5 June 2019 4:23 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: lindsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Albert,

Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,

Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project. There will be myself, and another TMR engineer to accompany you around the sites. I would expect you will need 3 guys and 2 x OTDR/LSPMs. One remains stationary at Mount Lindsay Highway. One will be at the patch location and the third at the next downstream location. The guy in the middle will be cleaning and repatching if we get any high loss results. I don't mind if we make it provisionally 2 days and you just bill me for the hours we actually spend on site.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](tel:0730665638)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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or endorsed organisations utilising the same infrastructure.

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Monday, 30 July 2018 11:56 AM
To: Matt Dawson
Subject: RE: Western Freeway

Matt,

Thanks. They were going to take some photos of the cable damage for me at barrier void 9. Can you please send through the photos?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Matt Dawson [mailto:matt@webbys.net.au]
Sent: Monday, 30 July 2018 10:37 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: Western Freeway
Importance: High

Hi Col,

Please see the attached report for the Western Freeway damaged fibre works.



WEBBY'S
The Cabling Specialists
PTY LTD
www.webbys.net.au

Matt Dawson
Projects Manager

Office: 3266 3040
Mobile: 0407 574 493
Email: matt@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

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Colin W Otto

From: Colin W Otto
Sent: Thursday, 26 July 2018 3:00 PM
To: Lindsay Harbour
Cc: Webbys Pty Ltd; Osman Sivac; Albert D Martin
Subject: CS314 Joint Modificaiton
Attachments: IMG_20180726_0002.jpg

Lindsay,

Just confirming that on Friday night at CS314, you will modify the 6 core SMOF from Kenmore CCTV into CS314, by splicing cores 1-6 from Kenmore to cores 7-12 of the 12 core spur cable running into CS314. Core 15 on the 36 core backbone will now splice straight through the joint. On the FOBOT in CS314, Core 1 and 2 will head across the Jindalee bridge to the next cabinet, cores 3 and 4 will connect to CS313, cores 5 and 6 are unterminated, and cores 7-12 will connect to Kenmore CCTV cabinet. Refer attached mark-up.

Please let me know if anything is unclear.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 18 July 2018 8:24 AM
To: Tony | Webbys Pty Ltd
Cc: Albert D Martin; Matt Dawson
Subject: RE: Vermin removal from conduit
Attachments: 20180717_160602_resized.jpg; 20180717_160534_resized.jpg

Tony,

I have been hit by a bolt of lightning this morning, and am feeling quite stupid regarding yesterday.

We have to close both fast lanes to haul the cable, and there are 2 sides to a barrier, and hence 2 coverplates. With the damaged location, we just need to remove the back coverplate on the outbound side to haul the cable through. I don't know how I didn't see this yesterday.

Can you please contact Albert after 12pm today and arrange for the repair to be undertaken at the earliest possible time?

I have the drum of 36 core at our Butterfield St shed. When can we arrange for you to collect the drum?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [mailto:tony@webbys.net.au]
Sent: Wednesday, 18 July 2018 6:56 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Vermin removal from conduit
Importance: High

Hi Col,

Generally the rodder tends to chase anything that is in the conduit out during the process but we are more than happy to pull one of these through, we call the porcupines. I'll check with Matt but I am pretty sure we already have some at our depot,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 18 July 2018 6:51 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Vermin removal from conduit

Tony,

When we are rodding the conduits for the cable replacement on Western Freeway, I want to be sure that there are no rats left in the conduits. Do you think the initial rod is enough to chase out the rat, or do we need to pull a brush through the conduit as well? With the one below, it is a wire brush, and there are electrical cables in the conduit, so would need to consider the potential to damage the cable. Whatever we pull through just needs to cover the most cross sectional area of the conduit so the rat exits.

Your thoughts?



COMETAR SUPPLY

Wire Brush Mandrel 3"

\$50.08

Add to Cart

Add to Quote

COMETAR SUPPLY

Wire Brush Mandrel 4"

\$63.05

Add to Cart

Add to Quote

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [0730665638](tel:0730665638)

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W: www.tmr.qld.gov.au

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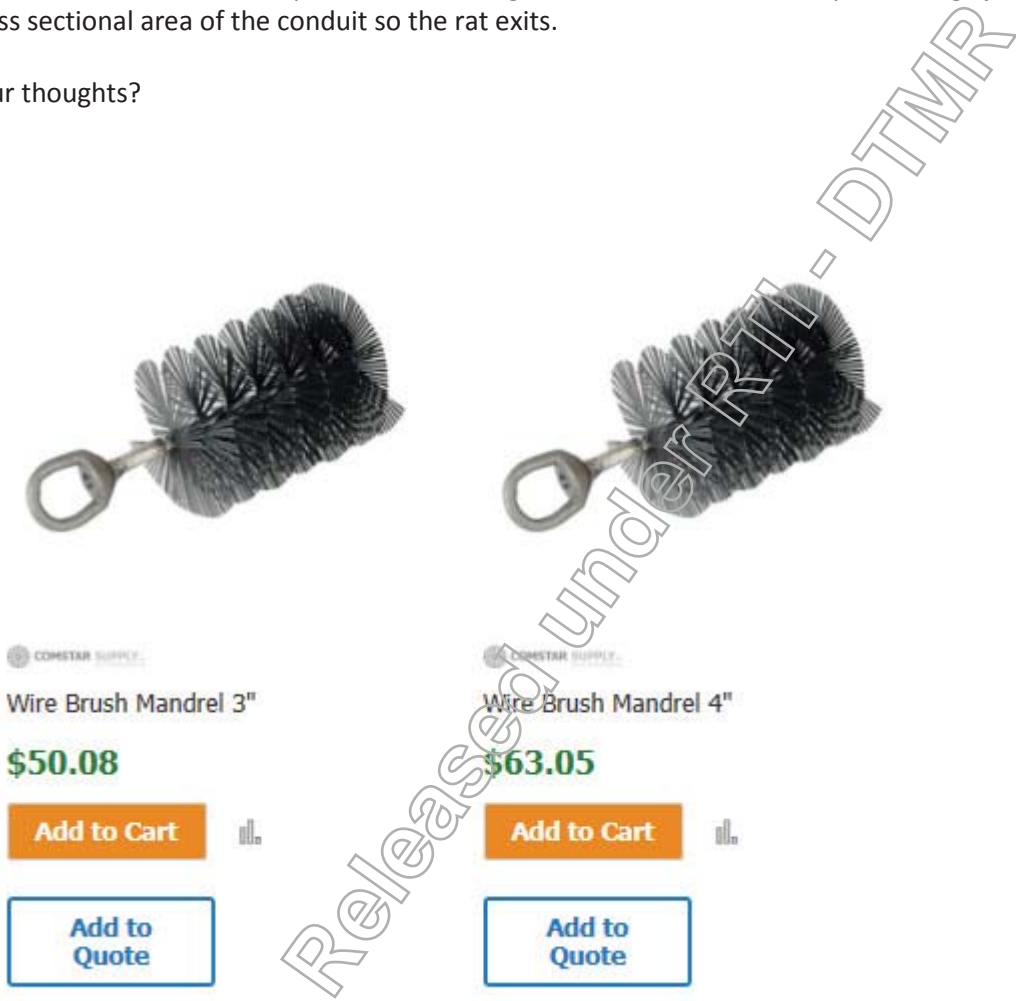
Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 18 July 2018 6:51 AM
To: Webbys Pty Ltd
Cc: Albert D Martin
Subject: Vermin removal from conduit

Tony,
When we are rodding the conduits for the cable replacement on Western Freeway, I want to be sure that there are no rats left in the conduits. Do you think the initial rod is enough to chase out the rat, or do we need to pull a brush through the conduit as well? With the one below, it is a wire brush, and there are electrical cables in the conduit, so would need to consider the potential to damage the cable. Whatever we pull through just needs to cover the most cross sectional area of the conduit so the rat exits.

Your thoughts?



Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

Colin W Otto

From: Colin W Otto
Sent: Tuesday, 17 July 2018 12:49 PM
To: Albert D Martin
Subject: RE: Moggill Rd Variation extra hours

Ok by me.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Pers](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: [Albert D Martin](#)
Sent: 17/07/2018 10:43 AM
To: [Colin W Otto](#)
Subject: FW: Moggill Rd Variation extra hours

The variation was not complete he forgot the labour
Seems ok to me I will approve

kind regards,

Albert Martin
Project Manager | Brisbane Operations
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Matt Dawson [mailto:matt@webbys.net.au]
Sent: Tuesday, 17 July 2018 6:48 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Moggill Rd Variation extra hours
Importance: High

Hi Albert

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total extra variation including previous email comes to \$1,440 ex gst



www.webbys.net.au

Matt Dawson
Projects Manager

Office: 3266 3040
Mobile:
Email: matt@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

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Colin W Otto

From: Colin W Otto
Sent: Tuesday, 17 July 2018 7:20 AM
To: Webbys Pty Ltd
Subject: FW: Scanned Document
Attachments: 17072018070514-0001.pdf

Tony,

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will let you know later today whether we have access to the cable.

As a side issue, I now have another fault on Western Freeway, unrelated to this original fault. If I need a splicer urgently, are you able to supply someone? We will supply any necessary Traffic Control.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office Program Delivery & Operations
| Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

-----Original Message-----

From: AD10-MP-FX-APVI-CC471 [mailto:AD10-MP-FX-APVI-C4471@tmr.qld.gov.au]

Sent: Tuesday, 17 July 2018 7:05 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: Scanned Document

Number of Images: 5

Attachment File Type: PDF

Device Name: AD10-MP-FX-APVI-CC471

Device Location:

Colin W Otto

From: Colin W Otto
Sent: Thursday, 12 July 2018 2:48 PM
To: Albert D Martin
Subject: RE: Cedarleigh Road crossing conduit

Thank you Albert

From: Albert D Martin
Sent: Thursday, 12 July 2018 2:45 PM
To: Matt Dawson <matt@webbys.net.au>; Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Dwayne A Boyton <Dwayne.A.Boyton@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Cedarleigh Road crossing conduit
Importance: High

Hi Webbys
Variation approved
Please proceed at your earliest convenience

kind regards,

Albert Martin
Project Manager | RoadTek (South) Brisbane Operations
Electrical & ITS Team | Department of Transport and Main Roads
10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | F: (07) 30664457
M: 4 Part 4 s.6 Pers
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Thursday, 12 July 2018 2:43 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Matt Dawson <matt@webbys.net.au>; Webbys Pty Ltd <tony@webbys.net.au>; Neil D Wilson <Neil.D.Wilson@tmr.qld.gov.au>; David Millar <David.Millar@brisbane.qld.gov.au>
Subject: FW: Cedarleigh Road crossing conduit
Importance: High

Albert,
We have a blocked conduit at Cedarleigh St. Could you please raise the PO to clear the conduit to allow the completion of the fibre install?

From: Matt Dawson [<mailto:matt@webbys.net.au>]

Sent: Thursday, 12 July 2018 2:29 PM

To: Neil D Wilson <Neil.D.Wilson@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Subject: Cedarleigh Road crossing conduit

Importance: High

Hi Neil, Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value
will be \$1720.00 ex gst.

If I can get a truck for early tomorrow morning we would be able to complete it then otherwise this coming Sunday night would be the earliest.

Please let me know at your earliest if you would like me to proceed.



WEBBY'S
The Cabling Specialists Pty Ltd

www.webbys.net.au

Matt Dawson
Projects Manager

Office: 3266 3040
Mobile:
Email: matt@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

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Colin W Otto

Subject: Gympie and Robinson - Fibre Fault Investigation
Location: M11222 Traffic Signal Controller - South East cnr Gympie and Robinson

Start: Wed 30/05/2018 12:00 PM
End: Wed 30/05/2018 1:00 PM

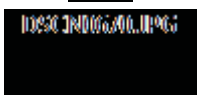
Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Colin W Otto
Required Attendees: Colin W Otto; Osman Sivac; Webbys Pty Ltd; Lindsay Harbour
Optional Attendees: lindsay@integratedfibresolutions.com.au

Meet on site to discuss scope of fibre repair.

Tony/Lindsay to bring OTDR to shoot cable and determine fault location SC-APC connector on FOBOT.



Released under RTI - DTMR

Colin W Otto

Subject: East West Arterial Fibre Testing
Location: Meet at RSC908/VMS902 on Airport Drive at 7.30am

Start: Mon 15/10/2018 7:30 AM
End: Mon 15/10/2018 5:00 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Colin W Otto
Required Attendees: Osman Sivac; Lindsay Harbour
Optional Attendees: Webbys Pty Ltd; Albert D Martin

Place holder for fibre testing on East West Arterial. Testing to continue Tuesday if required.

Test plan attached. I have included a column to identify the sequence of testing, and who is at the 'A' location, to try to minimise the movements required on both ends of the testing to increase efficiency.

IFS and RoadTek to each bring their respective EXFO OTDR/LSPM meters. IFS to supply launch and receive cables, 500m will be okay.

RoadTek to conduct prestart.



Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 4 October 2018 8:14 AM
To: Colin W Otto
Cc: Albert D Martin; Charles Goh; Rudy Budianto; Osman Sivac
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Thanks mate, just looking to close off last month.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Please Under RTI - DMR

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 8:14 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Charles Goh <Charles.z.Goh@tmr.qld.gov.au>; Rudy Budianto <Rudy.Z.Budianto@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Tony,
I think Albert was doing a variation of the original Purchase Order. He is away today, but back in the morning.

Albert,
Please confirm to Tony as soon as possible.

Rudy/Charles/Osman,
If you know, can you please let Tony know?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Thursday, 4 October 2018 8:12 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: Invoice 00006630; From Webby's Pty Ltd

Hi Col, I still haven't seen a P/O for this one yet from AI, would you mind checking and seeing if its been raised yet please mate?

Regards

Tony Webb



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@webbys.net.au

Unit 6/37 Nort

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Released under RTI - DTMR

Colin W Otto

Subject: End of year de brief
Location: Spanish Garden Breakfast Creek Hotel
Start: Wed 12/12/2018 11:30 AM
End: Wed 12/12/2018 1:30 PM
Recurrence: (none)
Meeting Status: Accepted
Organizer: Yvette | Webbys Pty Ltd

Gents,

I'd like to meet with you all next week to go over the year to date and see if there is anything we can improve on for 2019 if your available?

Released under RTI - D1MR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 19 June 2019 8:17 AM
To: Colin W Otto
Cc: Albert D Martin
Subject: RE: Moggill road to Almay ITS upgrade project

With the end of financial year fast approaching the team at Webby's know how important it is to have projects completed on time and also how important it is to have resources available to get new ones underway. With this in mind we have skilled cablers and equipment ready to go immediately, whether it's to compliment your current resources onsite or to take the load off your team by undertaking the works ourselves, either way if you have any project big or small we can help with please contact myself of Matt Dawson – matt@webbys.net.au and we will be only too happy to assist in any way we can.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Friday, 3 May 2019 3:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
I think there may be some confusion regarding the scope for supply of fibre for this project.

It was TMR's intention that you would supply the new 24 core GRP cable. Did you allow for the supply of the cable, or did you assume TMR was supplying the cable?

It appears in your price you state 'Install fibre' which makes me think you understood we would be supplying the cable. If this is the case, we can use the 36 core cable on the drum you already hold for us.

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

www.webbys.net.au

Unit 6/37 North

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS

RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: [0409 700 000](tel:0409700000) Per

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au



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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 8 May 2019 10:45 AM
To: Albert D Martin
Cc: Colin W Otto
Subject: RE: Beaudesert Road Pricing

Good morning Gents,

Just checking to see if this one was going ahead by any chance?



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Tuesday, 23 April 2019 4:02 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Beaudesert Road Pricing
Importance: High

Hi Al,

Please see quote attached for fibre works – Beaudesert Rd, let me know if you need anything further.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 18 April 2019 3:58 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Beaudesert Road Pricing

Tony/Lindsay,

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Have a look and give me a call next week to discuss if needed use Sch.4 Part 4 s.6 Personal info but if you could put your pricing together Part Refuse Sch.4 Part 4 s.6 Personal information that would be appreciated.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 12:50 PM
To: Matt Dawson
Cc: Colin W Otto; Albert D Martin
Subject: Re: Moggill road to Almay ITS upgrade project

Perfect

Kind regards, Tony Webb

On 7 May 2019, at 11:41 am, Matt Dawson <matt@webbys.net.au> wrote:

Hi we have 2,900m still on the drum

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:16 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Matt,

Can you check length and confirm we have enough please?



Tony Webb
Director

Office: 32
Mobile: 04
Email: tony

Unit 6/37

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 7 May 2019 7:02 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
Agree. Please confirm there is sufficient cable on the 36 core drum and use as necessary.
Terminating equipment, FOBOTS/joint will remain the same. Unused cores to be stored in trays.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:00 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Col,

Mate my apologies, I did think we were only installing the fibre as per the email on the 22/03, we are more than happy to use the 36 we already have if you like ?



Tony We
Director

Office: 32
Mobile: 04
Email: tony

www.webbys.net.au

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Friday, 3 May 2019 3:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
I think there may be some confusion regarding the scope for supply of fibre for this project.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,

<image002.jpg>

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony We
Director

Office: 32
Mobile: 04
Email: ton

www.webbys.net.au

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: albert.d.martin@tmr.qld.gov.au
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au

<image003.png>

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:16 AM
To: Colin W Otto
Cc: Albert D Martin; Matt Dawson
Subject: RE: Moggill road to Almay ITS upgrade project

Matt,

Can you check length and confirm we have enough please?



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Released under RTI - DTMR

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 7 May 2019 7:02 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,

Agree. Please confirm there is sufficient cable on the 36 core drum and use as necessary. Terminating equipment, FOBOTS/joint will remain the same. Unused cores to be stored in trays.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Pers
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:00 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Col,

Mate my apologies, I did think we were only installing the fibre as per the email on the 22/03, we are more than happy to use the 36 we already have if you like ?



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North Quay

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Friday, 3 May 2019 3:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,

I think there may be some confusion regarding the scope for supply of fibre for this project.

It was TMR's intention that you would supply the new 24 core GRP cable. Did you allow for the supply of the cable, or did you assume TMR was supplying the cable?

It appears in your price you state 'Install fibre' which makes me think you understood we would be supplying the cable. If this is the case, we can use the 36 core cable on the drum you already hold for us.

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: albert.d.martin@tmr.qld.gov.au
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 1 May 2019 11:29 AM
Subject: 2019 FOGS Annual Charity Lunch

Importance: High

Good morning Gents,

Once again we are supporting the FOGS charity event to be held on June 4th and would like to invite you guys for a casual non work orientated afternoon with lunch provided. Please respond with your availability as soon as practical, all details are below and being that Refuse Sch.4 Part 4 s.6 Personal inform I hope that we can all catchup for an enjoyable day with plenty of laughs and for a wonderful cause.

NOTE: Meeting point will be the Caxton Hotel at 11am



Leadbroses

proudly supporting the

**FOGS ANNUAL
CHARITY LUNCH**

TUESDAY, JUNE 4

12 NOON

SUNCORP STADIUM



WE LOOK FORWARD TO YOUR COMPANY

Tony,

Thank you for purchasing **One (1) Silver Table** at the 2019 FOGS Annual Charity Lunch, proudly supported by Ladbrokes. Seats for you and your guests will be reserved under "**Webby's Pty Ltd**".

Hosted by Pat Welsh with special guest "Stammin" Sam Kekovich, we are pleased you will be joining us to celebrate the 40th Series of State of Origin, whilst raising much needed funds for various charities and causes

Please find below information regarding the event.



**Tuesday,
4 June 2019**

**12:00 noon
until 3:30 pm**



**Member's Dining Room,
[Suncorp Stadium](#)
(Entry via Gate D)**



Smart Casual



Physical tickets are not issued for this event. Your name / company name will be listed at the door. Event Staff will be present to assist you in locating your seat.

If you or any of your guests have dietary requirements, please advise the Event Staff via email to lunch@fogs.com.au by Monday, 6 April.

As the event draws closer, details of Raffle and Auction prizes will be forwarded to you.

A Tax Invoice is attached to this email.



Limited Car Parking is available until 4:00 pm in Chippendall Street, entry is via Castlemaine Street, Milton.

Add to Calendar

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STADIUMS
QUEENSLAND



YALUMBA
FAMILY VIGNERES 1949





Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 23 April 2019 4:02 PM
To: Albert D Martin
Cc: Colin W Otto
Subject: RE: Beaudesert Road Pricing
Attachments: CCE23042019_0001.pdf

Importance: High

Hi Al,

Please see quote attached for fibre works – Beaudesert Rd, let me know if you need anything further.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 18 April 2019 3:58 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Beaudesert Road Pricing

Tony/Lindsay,

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Have a look and give me a call next week to discuss if needed. use Sch.4 Part 4 s.6 Personal info but if you could put your pricing together Part Refuse Sch.4 Part 4 s.6 Personal information that would be appreciated.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Saturday, 13 April 2019 12:02 PM
To: Albert D Martin
Cc: Colin W Otto
Subject: RE: Moggill road to Almay ITS upgrade project

Good afternoon Albert,

Just touching base to confirm you received our pricing and to see if you had any feedback or questions regarding it as we like to try and note if works look like they are going to proceed onto our schedule board with very tentative dates etc?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 28 March 2019 7:32 AM
To: Colin W Otto
Subject: RE: Moggill road to Almay ITS upgrade project

Cheers thanks mate,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

www.webbys.net.au

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 28 March 2019 7:12 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
Had a look over and appear to have all work covered.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per:](tel:0730665638)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

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W: www.tmr.qld.gov.au



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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 5 August 2019 12:11 PM
To: Colin W Otto
Cc: Lindsay Harbour
Subject: Re: Patching Test Results

Hi Col I have spoken to Lindsay and Sch.4 Part 4 s.6 Personal but assured me we will have these to you today.

Kind regards, Tony Webb

On 5 Aug 2019, at 10:07 am, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Lindsay,
Can you please make sure you send through the fibre test results from last week today?

Thanks for your assistance on this work.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto
Subject: FW: Moggill road to Almay ITS upgrade project
Attachments: CCE25032019_0003.pdf

Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Released under RTI - DTMR

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: albert.d.martin@tmr.qld.gov.au
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 13 February 2019 7:21 AM
To: George W Schwerin; Colin W Otto; Charles Goh; Osman Sivac
Cc: Albert D Martin; Alan R Graham
Subject: RE: Pacific Motorway Fibre Fault

Good morning,

Just a quick email to see if we can help with anything from rod and rope, scoping and reporting, hauling of copper or fibre or labor hire if you need an extra set of hands or two? Even if you would just like us to have a look at upcoming work and provide a price so you check if we can save you a few dollars I'd be more than happy to help out. If we can help in anyway please contact me via phone or email and we will be in touch



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: George W Schwerin <George.W.Schwerin@tmr.qld.gov.au>
Sent: Wednesday, 9 January 2019 5:38 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Charles Goh <Charles.z.Goh@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Cc: lindsay@ifsppty.com.au; Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Alan R Graham <alan.r.graham@tmr.qld.gov.au>
Subject: Re: Pacific Motorway Fibre Fault

Good morning all. Congratulations on a successful outcome.

George Schwerin

Sent from my SAMSUNG Galaxy S6 on the Telstra Mobile Network

----- Original message -----

From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Date: 9/1/19 1:12 am (GMT+10:00)

To: Charles Goh <Charles.z.Goh@tmr.qld.gov.au>, Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Cc: lindsay@ifspty.com.au, Webbys Pty Ltd <tony@webbys.net.au>, Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>,

Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>, George W Schwerin <George.W.Schwerin@tmr.qld.gov.au>,

Alan R Graham <alan.r.graham@tmr.qld.gov.au>

Subject: RE: Pacific Motorway Fibre Fault

Charles,

All operational. Thanks to everyone who assisted. Special thanks to Matt, Kevin and Kevin (from Webby's 4 Part 4 s.6 Per
Sch.4 Part 4 s.6 Person) to specifically undertake this work for us. Greatly appreciated.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Charles Goh

Sent: Tuesday, 8 January 2019 1:51 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Cc: lindsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>;

Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Pacific Motorway Fibre Fault

Hello folks,

All permits , TC's & VMS & TMA & QPS are good to go for tonight.

Similar setup as last night.

Osman:

- TC's crew are from the same group " Verifact" Reference no : **420066188**
- QPS has a different roster. Permit **WYN 165/19**

NAME: S/Con Clint Dowd

STATION: Redland Bay Water Police

Kind regards,

Charles Goh

Senior Technologist (ITS) | Brisbane Operations Unit

RoadTek South | IMD | Department of Transport and Main Roads

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 24 December 2018 9:07 PM
To: Colin W Otto
Cc: Lindsay Harbour; Albert D Martin; Osman Sivac; Michael D Thomas
Subject: Re: Fibre Fault Investigation

Hi Col, ok we are good to go on this one, do you have a specific day you'd prefer ?

Kind regards, Tony Webb

On 24 Dec 2018, at 12:11 pm, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Tony,

We have a fibre fault on Pacific Motorway, blown fibre around Logan Road. I have an idea where it is located, and believe it could be related to the macro bend issues that are common on the Busway.

I need assistance to attend site to confirm the location of the fault. Is someone available in the first week of January to assist? Please let me know who I can contact on 2nd January.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 24 December 2018 12:59 PM
To: Colin W Otto; Lindsay Harbour
Cc: Albert D Martin; Osman Sivac; Michael D Thomas
Subject: RE: Fibre Fault Investigation

Hi Col,

I am waiting for Lindsay to get back and confirm but I can't see why we couldn't have someone available to look into that for you, will let you know as soon as possible.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 24 December 2018 12:11 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Michael D Thomas <Michael.D.Thomas@tmr.qld.gov.au>
Subject: Fibre Fault Investigation

Tony,

We have a fibre fault on Pacific Motorway, blown fibre around Logan Road. I have an idea where it is located, and believe it could be related to the macro bend issues that are common on the Busway.

I need assistance to attend site to confirm the location of the fault. Is someone available in the first week of January to assist? Please let me know who I can contact on 2nd January.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Pers

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 5 December 2018 10:57 AM
To: Colin W Otto; Albert D Martin
Cc: Lindsay Harbour
Subject: RE: Southern Cross Way Fibre Work

Hi Col,

Just confirming I have Lindsay booked in for this one on the 15th of this month, let me know if you need anything further.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 5 December 2018 7:02 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>
Subject: RE: Southern Cross Way Fibre Work

Albert,
Does Tony need a PO number for this?

Tony/Lindsay,
Please let me know when you are ready to start.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Pers

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 4 December 2018 2:20 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work

Cheers thanks mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North Quay

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Tuesday, 4 December 2018 2:08 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work

Hi Tony approved

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical and ITS Team
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Friday, 30 November 2018 11:00 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work
Importance: High

Hi Al,

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$ 1968 plus GST.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 28 November 2018 5:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: Southern Cross Way Fibre Work

Tony,
Can you please provide Albert with a price to complete the work highlighted in green on the attached plan? The 24 core cables were hauled by BCC, and are sitting in the pits in front of the 2 cabinets. Just need to be fed into the cabinets and terminated. I took Lindsay to site 2 weeks ago to show what needed to be done, so he is already aware.

Testing is the 12 cores between CS515 and CS515A, and 4 cores between CS515A and RSC906 at East West Arterial. I will be available to provide access to site and during testing. Bidirectional OTDR and LSMP.

Any queries, please let me know.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](tel:0730665638)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 29 November 2018 7:50 AM
To: Colin W Otto
Cc: Lindsay Harbour; Albert D Martin; Osman Sivac
Subject: RE: Southern Cross Way Fibre Work

Col,

Yes mate no problem at all, will get something over to you as soon as I can.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 28 November 2018 5:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: Southern Cross Way Fibre Work

Tony,

Can you please provide Albert with a price to complete the work highlighted in green on the attached plan? The 24 core cables were hauled by BCC, and are sitting in the pits in front of the 2 cabinets. Just need to be fed into the cabinets and terminated. I took Lindsay to site 2 weeks ago to show what needed to be done, so he is already aware.

Testing is the 12 cores between CS515 and CS515A, and 4 cores between CS515A and RSC906 at East West Arterial. I will be available to provide access to site and during testing. Bidirectional OTDR and LSMP.

Any queries, please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 5 November 2018 12:28 PM
To: Colin W Otto
Cc: Albert D Martin; Charles Goh; Rudy Budiando; Osman Sivac; Dwayne A Boyton
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Hi Al,

As just discussed this is the email trail below, we don't seem to have received the P/O for invoice 6630?



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 8:14 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Charles Goh <Charles.z.Goh@tmr.qld.gov.au>; Rudy Budiando <Rudy.Z.Budiando@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Tony,

I think Albert was doing a variation of the original Purchase Order. Part Refuse Sch.4 Part 4 s.6 Personal information

Albert,

Please confirm to Tony as soon as possible.

Rudy/Charles/Osman,

If you know, can you please let Tony know?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Pei

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Thursday, 4 October 2018 8:12 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: Invoice 00006630; From Webby's Pty Ltd

Hi Col, I still haven't seen a P/O for this one yet from AI, would you mind checking and seeing if its been raised yet please mate?

Regards

Tony Webb



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 5 November 2018 10:40 AM
To: Colin W Otto; Albert D Martin
Cc: Lindsay Harbour
Subject: RE: East West Arterial - Toombul

Good afternoon Gents,

Just going back through outstanding invoices and I have the invoice for this job sitting on my system with no P/O and not having been sent, can you advise what the P/O is and I'll get it over ASAP please?



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 13 September 2018 1:31 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: East West Arterial - Toombul
Importance: High

Albert,
Can you please arrange for this work to proceed? I will attend site with IFS.

Lindsay,
Please let me know the date for the works as soon as possible. Wednesday next week or Monday, Tuesday or Wednesday the week after is good for me. Send me a calendar invite to book it in.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per:

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Thursday, 13 September 2018 1:28 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: East West Arterial - Toombul

Importance: High

Yes mate it does for sure,



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Sent: Thursday, 13 September 2018 1:22 PM

To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: East West Arterial - Toombul

Tony,

Does it include the 12 extra splices to be done at VMS902?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per:
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Thursday, 13 September 2018 1:21 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: East West Arterial - Toombul
Importance: High

Hi Albert,

Quote attached as requested, let me know if you need anything else.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Sunday, 4 November 2018 12:14 PM
To: Colin W Otto
Cc: Albert D Martin; Charles Goh; Rudy Budiando; Osman Sivac
Subject: RE: Invoice 00006630; From Webby's Pty Ltd
Attachments: INV00006630.pdf

Hi Guys, we still don't seem to have the P/O for this one and its way past due now, can I grab one ASAP please?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 8:14 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Charles Goh <Charles.z.Goh@tmr.qld.gov.au>; Rudy Budiando <Rudy.Z.Budiando@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Tony,
I think Albert was doing a variation of the original Purchase Order. He is away today, but back in the morning.

Albert,
Please confirm to Tony as soon as possible.

Rudy/Charles/Osman,
If you know, can you please let Tony know?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Thursday, 4 October 2018 8:12 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: Invoice 00006630; From Webby's Pty Ltd

Hi Col, I still haven't seen a P/O for this one yet from AI, would you mind checking and seeing if its been raised yet please mate?

Regards

Tony Webb



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 29 October 2018 4:47 PM
To: Angela Z Tame
Cc: Albert D Martin; Gong Y Dao
Subject: RE: BW428/18 Rope and Scope

Hello Angela,

Thank you that's great news and we look forward to working closely with TMR on future works.



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Released under RTI - DMR

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From: Angela Z Tame <Angela.Z.Tame@tmr.qld.gov.au>
Sent: Monday, 29 October 2018 2:23 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Gong Y Dao <Wendy.Y.Dao@tmr.qld.gov.au>
Subject: BW428/18 Rope and Scope

Dear Mr Webb

Thank you for your offer in response to the above invitation. Your offer has been accepted.

Please see the attached acceptance letter.

We look forward to a great working relationship with Webby's.

Kind regards

Angela Tame B.Blit.Env.

10 Oregon Street | Hemmant Qld 4174
T (07) 3066 4488 | M [4 Part 4 s.6 Pers](#)
E angela.z.tame@tmr.qld.gov.au
W www.tmr.qld.gov.au



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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 16 July 2019 5:07 PM
To: Albert D Martin
Cc: Colin W Otto; Lindsay Harbour
Subject: RE: CN12313 - Gympie Road Fibre Optic Repairs

Importance: High

Hi Albert,

Apologies for the delay in returning this quote, as discussed this afternoon I have expressed the urgency to both our suppliers on this one and expect pricing back to me tomorrow. I'll have it over to you as soon as I can,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 2:52 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: CN12313 - Gympie Road Fibre Optic Repairs

Hi Tony
I understand that Lindsay has had a conversation about these works
Please supply quote at your earliest convenience

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Monday, 15 July 2019 12:59 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Matthew Porteous <Matthew.z.Porteous@tmr.qld.gov.au>
Subject: CN12313 - Gympie Road Fibre Optic Repairs

Albert,
Can you please provide a fixed price estimate for the completion of the works detailed in the attached Scope of Works document?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 October 2018 4:29 PM
To: Albert D Martin
Cc: Colin W Otto
Subject: FW: Qld QTenders Response Receipt

Hi Albert,

Just letting you know we have submitted our response for the current tender,



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Qld QTenders <qtenders@hpw.qld.gov.au>
Sent: Monday, 15 October 2018 4:26 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Qld QTenders Response Receipt

Dear Tony Webb,

Thank you for using the Qld QTenders secure Electronic Lodgement Service.
You successfully submitted an electronic response to the tender shown below.

Request No. (Status) & Type	Request Summary	Dates
-----------------------------------	-----------------	-------

BW42818 (Current) Invitation to Offer	Provision of Rope and Scope Fibre and Electrical Cable Works Tender Issued by Department of Transport and Main Roads UNSPSC: Cable laying - (100%)	closing 18 Oct, 2018 3:00 PM
---	--	------------------------------

Your response receipt number is: **180486**. The response was submitted on 15 Oct, 2018 4:26 PM.

You have uploaded the following files:

- **2019 Public Liability COC.pdf (199090 bytes)**
- **2019 Workcover COC.pdf (18476 bytes)**
- **Webbys Pty Ltd Letter of offer.pdf (599868 bytes)**
- **2019 Motor Vehicle COC.pdf (320421 bytes)**
- **2019 Business COC.pdf (68845 bytes)**
- **RFQ Provision of Rope and Scope Fibre and Electrical cable.pdf (2599796 bytes)**

Any enquiries related to this request should be directed to the nominated contact person.

Please do not reply to this email. If you have any questions or require further information about the operation of this site, please contact:

Queensland Government QTenders

QTenders System Support

Business hours - 8am to 5pm (AEST)



07 3215 3699



bsu@hpw.qld.gov.au



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Thank you.

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 October 2018 9:12 AM
To: Albert D Martin
Cc: Colin W Otto
Subject: RE: Tender

Ok no problem will submit everything later today,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Monday, 15 October 2018 8:08 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Tender

Hi Tony
No I have not as yet
Just note if contract is won then insurance will be sought

kind regards,

Albert Martin
Project Manager | Brisbane Operations
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Monday, 15 October 2018 6:47 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: Tender
Importance: High

Hi Albert,

We are hoping to submit our tender response today but just wanted clarification on that Professional Indemnity Insurance before we do, have you had a response from procurement as of yet ?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 October 2018 6:47 AM
To: Albert D Martin
Cc: Colin W Otto
Subject: Tender

Importance: High

Hi Albert,

We are hoping to submit our tender response today but just wanted clarification on that Professional Indemnity Insurance before we do, have you had a response from procurement as of yet ?



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 11 October 2018 6:59 PM
To: Albert D Martin
Cc: Osman Sivac; Lindsay; Colin W Otto
Subject: RE: Gympie Road Fibre Modification

Perfect thanks Albert,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Thursday, 11 October 2018 4:34 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Lindsay <l.harbour@bigpond.com>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Gympie Road Fibre Modification

Hi Tony
To confirm
Traffic Management will be on site at Monday 22/10/18 at 9.00pm
Osman will be the contact h.4 Part 4 s.6 Perso

kind regards,

Albert Martin
Project Manager | Brisbane Operations

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Tuesday, 9 October 2018 7:21 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Lindsay <l.harbour@bigpond.com>
Subject: RE: Gympie Road Fibre Modification

Hi Albert,

With the request being that we start after 10pm is it possible to have T/C there setting up from around 9pm so we can get started right on 10pm?



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Monday, 8 October 2018 4:40 PM

To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: Gympie Road Fibre Modification

Hi Tony
What time do you want the traffic control to be there?

kind regards,

Albert Martin
Project Manager | Brisbane Operations
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Monday, 8 October 2018 3:19 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Gympie Road Fibre Modification
Importance: High

Hi Albert,

Please find our pricing below for the scope of works as requested, if you need anything further please just let me know.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$1728.00 ex GST



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Sent: Thursday, 4 October 2018 5:20 PM

To: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: Gympie Road Fibre Modification

Tony,

Please provide pricing to Albert to complete the works on the attached drawings.

Part Refuse Sch 4 Part 4 s.7(1)(b) Commercial value

Refer Dwg 357446 for joint location.

We would like the work to be undertaken in the week commencing 22 October. Can you accommodate this?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 8 October 2018 3:19 PM
To: Albert D Martin
Cc: Osman Sivic; Colin W Otto
Subject: RE: Gympie Road Fibre Modification

Importance: High

Hi Albert,

Please find our pricing below for the scope of works as requested, if you need anything further please just let me know.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$1728.00 ex GST



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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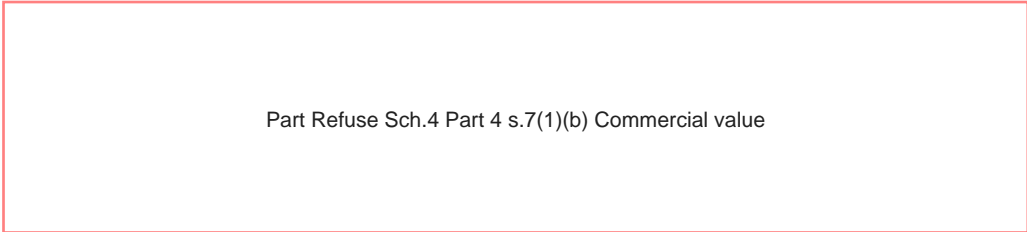
From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 5:20 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivic <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: Gympie Road Fibre Modification

Tony,

Please provide pricing to Albert to complete the works on the attached drawings.



Refer Dwg 357446 for joint location.

We would like the work to be undertaken in the week commencing 22 October. Can you accommodate this?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Friday, 5 October 2018 11:12 AM
To: Colin W Otto
Cc: Lindsay Harbour; Albert D Martin; Osman Sivac
Subject: RE: Gympie Road Fibre Modification

Col,

Just confirming yes we can kick it off in the week of the 22nd as requested and I will have pricing to Albert by close of business Monday.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 5:20 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: Gympie Road Fibre Modification

Tony,

Please provide pricing to Albert to complete the works on the attached drawings.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Refer Dwg 357446 for joint location.

We would like the work to be undertaken in the week commencing 22 October. Can you accommodate this?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Colin W Otto

From: Colin W Otto
Sent: Monday, 5 August 2019 3:45 PM
To: 'lindsay@ifspty.com.au'
Cc: Albert D Martin; Webbys Pty Ltd
Subject: RE: Gympie Road Fibre Works Cost Estimate

Lindsay,

I found a small omission today. At CS794, there is a second 6 core cable connected to the existing FOBOT from a CCTV camera. I will update the drawing and send to you. Accept there will be cost increase for you to do this, but just add it to the bill.

Will send tomorrow.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Colin W Otto
Sent: Thursday, 11 July 2019 3:26 PM
To: lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Webbys Pty Ltd <tony@webbys.net.au>
Subject: Gympie Road Fibre Works Cost Estimate

Lindsay,

Following our meeting today, I have updated the scope of works document to include on the fibre optic works to be undertaken. Can you please provide a quote to RoadTek, via the existing SOA with Webby's to complete the work?

I have included a table in the Appendix for you to price each item individually, and the original spreadsheet is also attached. The work is able to be undertaken during daytime hours, with the exception of four (4) joints, which will also require traffic control. RoadTek will provide the traffic control for these sites.

Any questions, please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Colin W Otto

From: Colin W Otto
Sent: Monday, 5 August 2019 12:13 PM
To: 'Tony | Webbys Pty Ltd'
Cc: Lindsay Harbour
Subject: RE: Patching Test Results

Thanks.

I gave Albert the go ahead for Hoyland St. Has he let you know? Needs to be completed in the week commencing 11/08/2019.

Also the Gympie Road Fibre work is approved, but wait for your PO from Albert before commencing ordering for this.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 5 August 2019 12:11 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>
Subject: Re: Patching Test Results

Hi Col I have spoken to Lindsay se Sch.4 Part 4 s.6 Personal info but assured me we will have these to you today.

Kind regards, Tony Webb

On 5 Aug 2019, at 10:07 am, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Lindsay,
Can you please make sure you send through the fibre test results from last week today?

Thanks for your assistance on this work.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

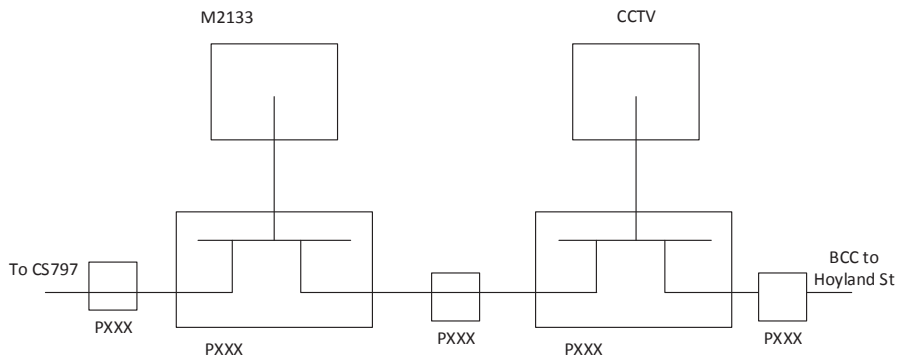
From: Colin W Otto
Sent: Monday, 29 July 2019 11:35 AM
To: Albert D Martin
Cc: Webbys Pty Ltd; Lindsay Harbour
Subject: Gympie Road and Hoyland St Fibre and Fibre Optic Joint Audit
Attachments: 357461_B Gympie Rd ITS Drg 20.pdf; 357460_B Gympie Rd ITS Drg 19.pdf; 357472_B Gympie Rd ITS Drg 31.pdf; 357470_B Gympie Rd ITS Drg 29.pdf

Albert,
For design purposes for the Gympie and Strathpine TMR requires to provide information to the design contractor regarding a BCC connection to TMR cable along Hoyland St.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Can you please obtain pricing as a matter of priority? I would like this work undertaken next week if possible, with the report submitted by COB Thursday, 5 August.





Record Cable IDs or markings if shown.
 If missing, install label and label Cable 1, Cable 2 and so on.
 Record core counts of individual cables.

Kind regards,

Col Otto
 Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
 Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
 P: (07) 30665638
 M: 4 Part 4 s.6 Per
 E: colin.w.otto@tmr.qld.gov.au
 W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Monday, 15 July 2019 12:50 PM
To: 'Tony | Webbys Pty Ltd'; Lindsay Harbour
Cc: Albert D Martin
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

No. Need to be printable and wrap around the patch lead.

Lindsay,
Send me a photo of a sample you can do. If you don't have anything RoadTek have label maker.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 12:49 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

I have some labels here that we will send out and can be marked with details on site, we use them on other projects and they work well.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

www.webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 12:46 PM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

We can make them on site?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per:
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Lindsay Harbour <lindsay@ifspty.com.au>
Sent: Monday, 15 July 2019 12:46 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Re: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

No problem, if someone tell us what to put on them they will be done

Regards

Lindsay Harbour
0488 707118

On 15 Jul 2019, at 12:37 pm, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Can we also please ensure that we have a permanent label maker to label the patch leads as we go?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per:
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 9:43 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Importance: High

Hi Col,

That's no problem at all I'll get the order underway now,

<image001.jpg>

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 9:06 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Tony/Lindsay,

Albert will be sending you soon the PO to proceed with this work. There is a quantity change in the number of cores that we need to test, and also the number of patches. Instead of 2 core and 1 patch lead, now we need to do 4 cores and 2 patch leads. I assume this only affects the materials, as the time will only marginally increase, and you will bill by the hour.

Can you please proceed with procuring the patch leads, and advise when they will be received? We need about a week's notice to arrange Transurban permits, so need to know exactly when you are available to do this. Please let me know as soon as possible.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Albert D Martin
Sent: Thursday, 6 June 2019 5:32 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Colin

This is the quote form Webbys

Transurban Permits

Will need to know the location you are working as I require to submit TGS

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: Part 4 s.6 Per

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au

<image002.png>

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Sent: Thursday, 6 June 2019 5:29 PM

To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Al,

Part Refuse Sch.4 Part 4 s.6 Personal information please see the breakdown and costs below and let me know if you need anything further.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$3800 plus GST.

<image001.jpg>

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Sent: Thursday, 6 June 2019 1:43 PM

To: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Tony Did you see this?

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 4 Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au

<image002.png>

From: Colin W Otto
Sent: Wednesday, 5 June 2019 4:23 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: lindsay@ifspity.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Albert,
Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,
Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project. Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 29 July 2019 4:10 PM
To: Albert D Martin; Colin W Otto
Cc: Lindsay Harbour
Subject: RE: Gympie Road and Hoyland St Fibre and Fibre Optic Joint Audit

OK no worries,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Monday, 29 July 2019 3:20 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>
Subject: RE: Gympie Road and Hoyland St Fibre and Fibre Optic Joint Audit

Night works

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)



From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 29 July 2019 12:35 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>
Subject: RE: Gympie Road and Hoyland St Fibre and Fibre Optic Joint Audit

Albert,

Can you confirm if this would be day or night works, I have looked at the area and I am guessing it will be night?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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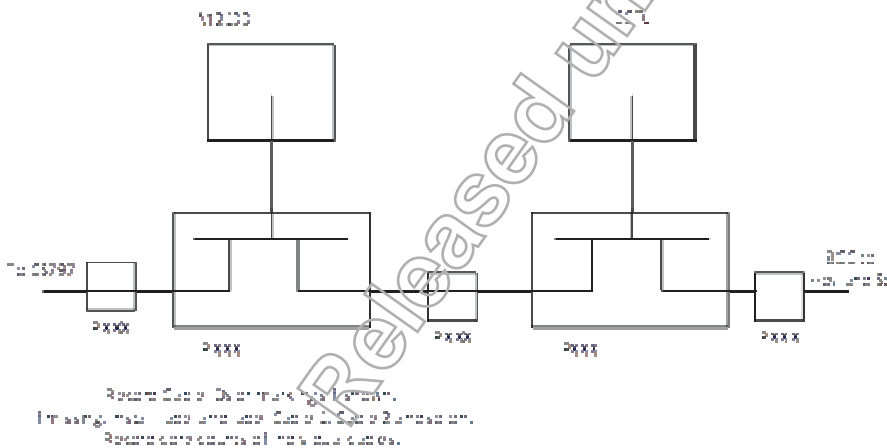
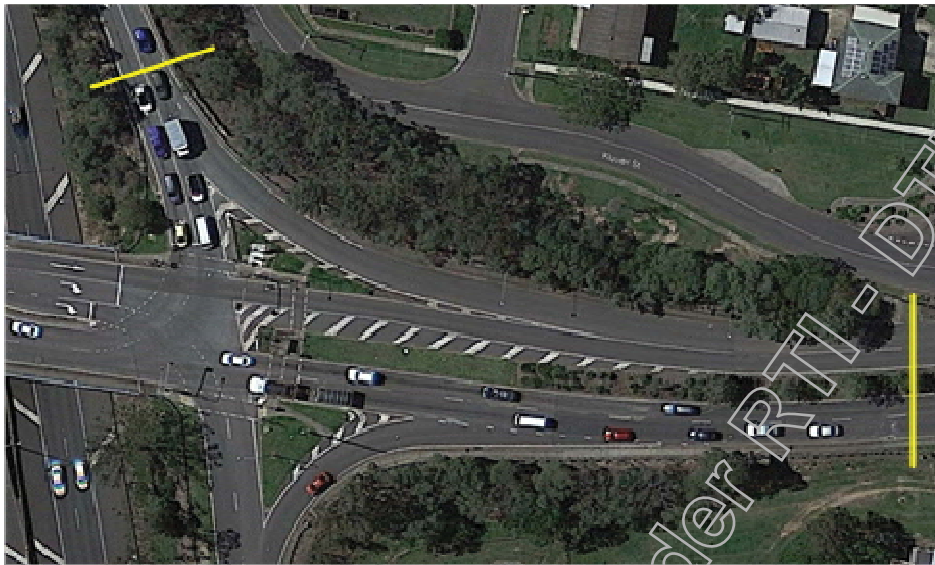
From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 29 July 2019 11:35 AM
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Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Subject: Gympie Road and Hoyland St Fibre and Fibre Optic Joint Audit

Albert,

For design purposes for the Gympie and Strathpine TMR requires to provide information to the design contractor regarding a BCC connection to TMR cable along Hoyland St.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Can you please obtain pricing as a matter of priority? I would like this work undertaken next week if possible, with the report submitted by COB Thursday, 5 August.



Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Monday, 15 July 2019 12:46 PM
To: 'Lindsay Harbour'
Cc: Tony | Webbys Pty Ltd; Albert D Martin
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

We can make them on site?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Lindsay Harbour <lindsay@ifspty.com.au>
Sent: Monday, 15 July 2019 12:46 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Re: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

No problem, if someone tell us what to put on them they will be done

Regards

Lindsay Harbour
0488 707118

On 15 Jul 2019, at 12:37 pm, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Can we also please ensure that we have a permanent label maker to label the patch leads as we go?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
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From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 9:43 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Importance: High

Hi Col,

That's no problem at all I'll get the order underway now,

<image001.jpg>

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 9:06 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Tony/Lindsay,

Albert will be sending you soon the PO to proceed with this work. There is a quantity change in the number of cores that we need to test, and also the number of patches. Instead of 2 core and 1 patch lead, now we need to do 4 cores and 2 patch leads. I assume this only affects the materials, as the time will only marginally increase, and you will bill by the hour.

Can you please proceed with procuring the patch leads, and advise when they will be received? We need about a week's notice to arrange Transurban permits, so need to know exactly when you are available to do this. Please let me know as soon as possible.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Albert D Martin
Sent: Thursday, 6 June 2019 5:32 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Colin

This is the quote form Webbys

Transurban Permits

Will need to know the location you are working as I require to submit TGS

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 4 Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au

<image002.png>

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 6 June 2019 5:29 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Al,

Part Refuse Sch.4 Part 4 s.6 Personal information please see the breakdown and costs below and let me know if you need anything further.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$3800 plus GST.

<image001.jpg>

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Albert,
Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,
Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project. There will be myself, and another TMR engineer to accompany you around the sites. I would expect you will need 3 guys and 2 x OTDR/LSPMs. One remains stationary at Mount Lindsay Highway. One will be at the patch location and the third at the next downstream location. The guy in the middle will be cleaning and repatching if we get any high loss results. I don't mind if we make it provisionally 2 days and you just bill me for the hours we actually spend on site.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

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Colin W Otto

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Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Can we also please ensure that we have a permanent label maker to label the patch leads as we go?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

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Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Importance: High

Hi Col,

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Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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Transurban Permits
Will need to know the location you are working as I require to submit TGS

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
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Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$3800 plus GST.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Wednesday, 5 June 2019 4:23 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: lindsay@ifspity.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Albert,
Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,
Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Monday, 15 July 2019 9:06 AM
To: Webbys Pty Ltd; lindsay@ifspty.com.au
Cc: Albert D Martin
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Attachments: LEP Patching to BMTMC 2019_07_01.xlsx

Tony/Lindsay,

Albert will be sending you soon the PO to proceed with this work. There is a quantity change in the number of cores that we need to test, and also the number of patches. Instead of 2 core and 1 patch lead, now we need to do 4 cores and 2 patch leads. I assume this only affects the materials, as the time will only marginally increase, and you will bill by the hour.

Can you please proceed with procuring the patch leads, and advise when they will be received? We need about a week's notice to arrange Transurban permits, so need to know exactly when you are available to do this. Please let me know as soon as possible.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Albert D Martin
Sent: Thursday, 6 June 2019 5:32 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Colin

This is the quote form Webbys

Transurban Permits

Will need to know the location you are working as I require to submit TGS

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS

RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: 4 Part 4 s.6 Per

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 6 June 2019 5:29 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Al,

Part Refuse Sch.4 Part 4 s.6 Personal information please see the breakdown and costs below and let me know if you need anything further.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$3800 plus GST.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Thursday, 6 June 2019 1:43 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Tony Did you see this?

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 0428100944
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Wednesday, 5 June 2019 4:23 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: lindsay@ifspity.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Albert,
Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,
Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [0730665638](tel:0730665638)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Thursday, 11 July 2019 3:26 PM
To: lindsay@ifspty.com.au
Cc: Albert D Martin; Webbys Pty Ltd
Subject: Gympie Road Fibre Works Cost Estimate
Attachments: CN-11908 Scope of Fibre Works 2019_07_05.pdf; Fibre Works Schedule Extract.xlsx

Lindsay,

Following our meeting today, I have updated the scope of works document to include on the fibre optic works to be undertaken. Can you please provide a quote to RoadTek, via the existing SOA with Webby's to complete the work?

I have included a table in the Appendix for you to price each item individually, and the original spreadsheet is also attached. The work is able to be undertaken during daytime hours, with the exception of four (4) joints, which will also require traffic control. RoadTek will provide the traffic control for these sites.

Any questions, please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Monday, 8 July 2019 7:46 AM
To: Albert D Martin
Subject: RE: Invoice 00006845; From Webby's Pty Ltd

Yes

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: [Albert D Martin](#)
Sent: 8/07/2019 7:33 AM
To: [Colin W Otto](#)
Subject: FW: Invoice 00006845; From Webby's Pty Ltd

Hi Colin
Was this variation completed?

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Pe](#)



From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Friday, 5 July 2019 11:01 AM
To: roadtekbrisbanecosting <roadtekbrisbanecosting@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Invoice 00006845; From Webby's Pty Ltd

Please contact Tony Webb via email tony@webbys.net.au if you have any queries with this invoice.
Regards
Tony Webb



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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Colin W Otto

From: Colin W Otto
Sent: Thursday, 4 July 2019 6:22 AM
To: Neil D Wilson
Subject: FW: Moggill rd part 2 of 3
Attachments: tmr mogill rd traces 1of 2.zip

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: h.4 Part 4 s.6 Pers
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Kevin Maguire <kevin@ifspty.com.au>
Sent: Wednesday, 3 July 2019 2:15 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; tony@webbys.net.au; Lindsay <lindsay@ifspty.com.au>
Subject: Moggill rd part 2 of 3

Regards

Kevin Maguire

E kevin@ifspty.com.au
M h.4 Part 4 s.6 Persc



Colin W Otto

From: Colin W Otto
Sent: Thursday, 4 July 2019 6:21 AM
To: Neil D Wilson
Subject: FW: moggill rd 3 of 3
Attachments: tmr mogill rd traces 2 of 2.zip

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Kevin Maguire <kevin@ifspty.com.au>
Sent: Wednesday, 3 July 2019 2:15 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; tony@webbys.net.au; Lindsay <lindsay@ifspty.com.au>
Subject: moggill rd 3 of 3

Regards

Kevin Maguire

E kevin@ifspty.com.au
M [h.4 Part 4 s.6 Perso](#)



Colin W Otto

From: Colin W Otto
Sent: Thursday, 4 July 2019 6:21 AM
To: Neil D Wilson
Subject: FW: Moggill Rd test results 1 of 3
Attachments: tmr mogill rd pdf test results.zip

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: h.4 Part 4 s.6 Pers

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Kevin Maguire <kevin@ifspty.com.au>
Sent: Wednesday, 3 July 2019 2:14 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; tony@webbys.net.au; Lindsay <lindsay@ifspty.com.au>
Subject: Moggill Rd test results 1 of 3

Hi All,

Please find attached Moggill Rd test results.

There is 3 parts due to size of file.

Regards

Kevin Maguire

E kevin@ifspty.com.au

M h.4 Part 4 s.6 Persc



Colin W Otto

From: Colin W Otto
Sent: Thursday, 20 June 2019 5:45 PM
To: Webbys Pty Ltd; lindsay@ifspty.com.au
Subject: FW: MPB404 VSLs SIGN 1
Attachments: IMG_0221.JPG; IMG_0222.JPG; IMG_0223.JPG; IMG_0224.JPG; IMG_0225.JPG; IMG_0226.JPG; IMG_0227.JPG; IMG_0228.JPG

These rats are the most determined I have ever seen.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Matthew Porteous

Sent: Thursday, 20 June 2019 2:19 PM

To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivic <Osman.Z.Sivic@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: MPB404 VSLs SIGN 1

Hi All,

As requested, the photos are attached of what was found today at MPB404. Rats seem to have chewed through the PVC caps that were installed and have started to get back into the conduits. The photos are all taken in 1 parapet void located adjacent to the cabinet MPB404. You can see in the photo IMG_0221 where they have chewed their way into the conduit and then chewed right through an instrument cable (next to the fibre). Apologies they aren't the best photos.

Kind regards,

Matthew Porteous

Signal Electrician | Brisbane Operations Unit

RoadTek South | Infrastructure Management & Delivery

| Hemmant Depot | 10 Oregon Street | Hemmant Qld 4174

M: [4 Part 4 s.6 Per](#)

E: matthew.z.porteous@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 5 June 2019 4:23 PM
To: Albert D Martin
Cc: lindsay@ifspty.com.au; Webbys Pty Ltd
Subject: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Attachments: LEP Patching to BMTMC Requirements 2019_06_05.pdf

Albert,

Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,

Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 29 July 2019 4:35 PM
To: Albert D Martin
Cc: Colin W Otto
Subject: Quote for scope and fibre report as requested

Importance: High

Hi Al,

Quote is below;

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$3862.00 ex GST, please let me know if this is suitable and I can then make a tentative booking to commence once Col has completed the notification etc.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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Colin W Otto

From: Colin W Otto
Sent: Tuesday, 21 May 2019 8:17 AM
To: Webbys Pty Ltd; Matt Dawson
Subject: Fibre Hauling

Tony/Matt,

The TMR Specification is currently be rewritten for fibre optic. There is a question about how the addition of the nylon jacket assists with cable hauling, versus the poly-ethylene jacket. How much harder is it to haul a PE jacketed cable versus nylon jacketed? There would still be an inner nylon sheath, under the rodent proofing, to prevent termite damage. What is your experience?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Tuesday, 7 May 2019 12:05 PM
To: Matt Dawson; Tony | Webbys Pty Ltd
Cc: Albert D Martin
Subject: RE: Moggill road to Almay ITS upgrade project

Please use this cable.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Pers](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: [Matt Dawson](#)
Sent: 7/05/2019 11:41 AM
To: [Tony | Webbys Pty Ltd](#); [Colin W Otto](#)
Cc: [Albert D Martin](#)
Subject: RE: Moggill road to Almay ITS upgrade project

Hi we have 2,900m still on the drum

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:16 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Matt,

Can you check length and confirm we have enough please?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 7 May 2019 7:02 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,

Agree. Please confirm there is sufficient cable on the 36 core drum and use as necessary. Terminating equipment, FOBOTS/joint will remain the same. Unused cores to be stored in trays.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:00 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Col,

Mate my apologies, I did think we were only installing the fibre as per the email on the 22/03, we are more than happy to use the 36 we already have if you like ?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Friday, 3 May 2019 3:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
I think there may be some confusion regarding the scope for supply of fibre for this project.

It was TMR's intention that you would supply the new 24 core GRP cable. Did you allow for the supply of the cable, or did you assume TMR was supplying the cable?

It appears in your price you state 'Install fibre' which makes me think you understood we would be supplying the cable. If this is the case, we can use the 36 core cable on the drum you already hold for us.

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Tuesday, 7 May 2019 7:02 AM
To: 'Tony | Webbys Pty Ltd'
Cc: Albert D Martin; Matt Dawson
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,

Agree. Please confirm there is sufficient cable on the 36 core drum and use as necessary. Terminating equipment, FOBOTS/joint will remain the same. Unused cores to be stored in trays.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:00 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Col,

Mate my apologies, I did think we were only installing the fibre as per the email on the 22/03, we are more than happy to use the 36 we already have if you like?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Friday, 3 May 2019 3:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
I think there may be some confusion regarding the scope for supply of fibre for this project.

It was TMR's intention that you would supply the new 24 core GRP cable. Did you allow for the supply of the cable, or did you assume TMR was supplying the cable?

It appears in your price you state 'Install fibre' which makes me think you understood we would be supplying the cable. If this is the case, we can use the 36 core cable on the drum you already hold for us.

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

www.webbys.net.au

Unit 6/37 North

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks

Please provide quote thanks

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical & ITS

RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)

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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Friday, 3 May 2019 3:09 PM
To: Tony | Webbys Pty Ltd
Cc: Albert D Martin
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
I think there may be some confusion regarding the scope for supply of fibre for this project.

It was TMR's intention that you would supply the new 24 core GRP cable. Did you allow for the supply of the cable, or did you assume TMR was supplying the cable?

It appears in your price you state 'Install fibre' which makes me think you understood we would be supplying the cable. If this is the case, we can use the 36 core cable on the drum you already hold for us.

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Thursday, 18 April 2019 3:58 PM
To: Webbys Pty Ltd; lindsay@ifspty.com.au
Cc: Albert D Martin
Subject: Beaudesert Road Pricing
Attachments: Beaudesert Road Scope Memo and Drawing 2019_04_18.pdf

Tony/Lindsay,

Can you please provide a price to Albert for the attached items identified as 'Webby's' for Beaudesert Road fibre?

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Have a look and give me a call next week to discuss if needed.

Part Refuse Sch.4 Part 4 s.6 Personal information

Part Refuse Sch.4 Part 4 s.6 Personal information

that would be appreciated.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DDMR

Colin W Otto

From: Colin W Otto
Sent: Thursday, 28 March 2019 7:12 AM
To: 'Tony | Webbys Pty Ltd'
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
Had a look over and appear to have all work covered.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.6 Pdf](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

www.webbys.net.au Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 4 Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 20 March 2019 11:08 AM
To: Albert D Martin
Subject: RE: East West Arterial Fibre Fault

Albert,

Yes, appears ok. Works out to Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value I think that is fair. We are supplying the cable and they already hold it for us.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Albert D Martin
Sent: Wednesday, 20 March 2019 10:56 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: East West Arterial Fibre Fault

Are you happy with this quote?

kind regards,

Albert Martin

Project Manager | Brisbane Operations | Electrical and ITS Team
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 4 Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 20 March 2019 10:50 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: East West Arterial Fibre Fault

Morning Al,

Quote attached as requested and at this stage we have our team booked for a start Sunday night unless advised otherwise.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Tuesday, 19 March 2019 4:58 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Brett D Anderson <brett.d.anderson@tmr.qld.gov.au>; lingsay@ifspty.com.au; Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: RE: East West Arterial Fibre Fault

Hi Colin
I just sent the request to Transurban
Will follow up tomorrow to push through
The critical path will be this approval

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Per](tel:0409744444)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Tuesday, 19 March 2019 2:50 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Brett D Anderson <brett.d.anderson@tmr.qld.gov.au>; lingsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: East West Arterial Fibre Fault

Albert,
Attached is a KML file for the fault and joint locations identified today on East West Arterial.

The work required:-

- Rod and rope existing conduit for cable installation. All conduits to have nylon conduit brush drawn through to ensure no vermin remain in conduits. Caps to be installed immediately as brush is pulled through conduit. Caps removed and replaced post cable installation as per TMR required conduit sealing method below.
- Replace approximately 700m 36 core GRP (cable already in Webby's possession) between VMS901 and an existing joint at the development on the off-ramp to Nudgee Road.
- Seal all conduits (E and C, with/without cabling installed) in all barrier voids. Conduits to be sealed with PVC caps, with cutouts for installed cables. Cut out piece to be silicone back in over cables to minimise points of ingress for vermin.
- Cables (including 216c and 6c and new 36c) to be covered in barrier voids with split corrugated conduit and cable ties.
- Splice existing joints as per existing, plans attached.
- Testing of all cores required, OTDR and LSPM at 1310 and 1550nm wavelengths as per attached test plan.
- RoadTek to arrange all traffic control.
- Webby's/IFS to work under RoadTek SWMS.

Tony Webb is proposing to commence Sunday night, and complete cable hauling Monday night. IFS will splice joints during day behind concrete barrier/guardrail. No traffic control will be required for the joint splicing.

Can you please discuss with Tony to confirm? Don't forget that your TGS must incorporate the Airport Link Tunnel exit onto East West Arterial for the cable installation.

Please let me know once all is confirmed.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 20 March 2019 4:49 AM
To: Albert D Martin
Cc: Osman Sivac; Brett D Anderson; lindsay@ifspty.com.au; Webbys Pty Ltd
Subject: RE: East West Arterial Fibre Fault

Albert,

I have a contact that i met through GUN, who said he can help us when needed, Sch.4 Part 4 s.6 Person

mailto:Refuse Sch.4 Part 4 s.6 Personal inform

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Pers
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: [Albert D Martin](#)
Sent: 19/03/2019 4:58 PM
To: [Colin W Otto](#)
Cc: [Osman Sivac](#); [Brett D Anderson](#); [lindsay@ifspty.com.au](#); [Webbys Pty Ltd](#)
Subject: RE: East West Arterial Fibre Fault

Hi Colin

I just sent the request to Transurban
Will follow up tomorrow to push through
The critical path will be this approval

kind regards,

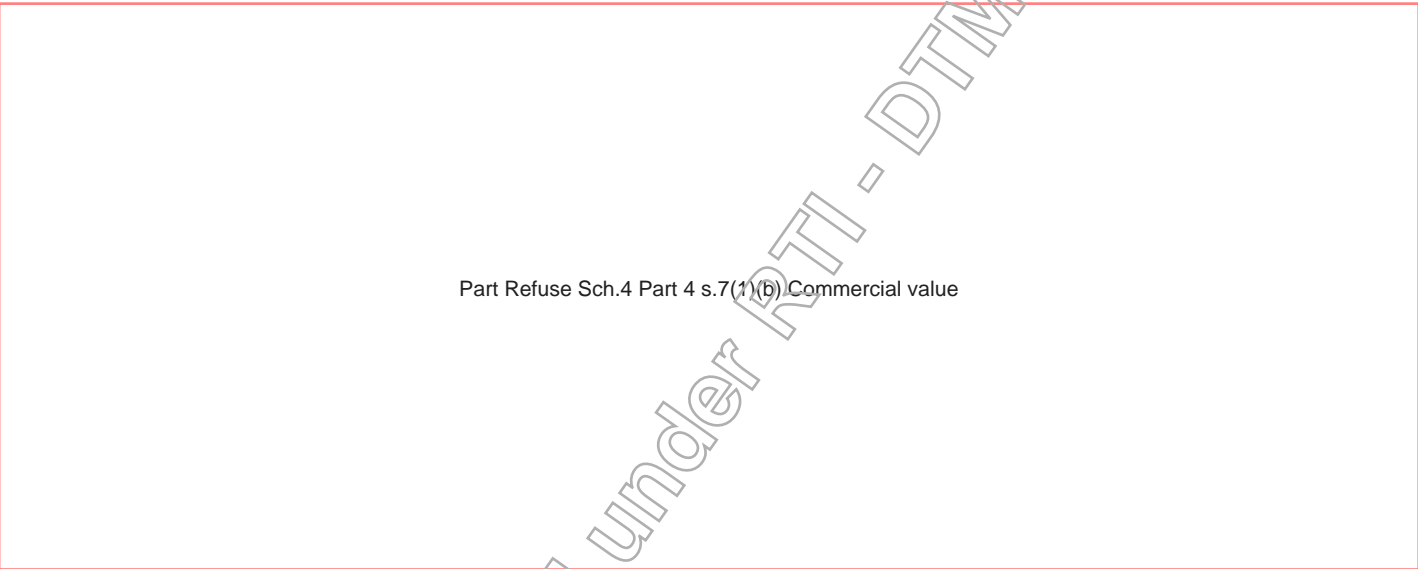
Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: 4 Part 4 s.6 Pe
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Tuesday, 19 March 2019 2:50 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Brett D Anderson <brett.d.anderson@tmr.qld.gov.au>; lindsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: East West Arterial Fibre Fault

Albert,
Attached is a KML file for the fault and joint locations identified today on East West Arterial.



Tony Webb is proposing to commence Sunday night, and complete cable hauling Monday night. IFS will splice joints during day behind concrete barrier/guardrail. No traffic control will be required for the joint splicing.

Can you please discuss with Tony to confirm? Don't forget that your TGS must incorporate the Airport Link Tunnel exit onto East West Arterial for the cable installation.

Please let me know once all is confirmed.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 20 March 2019 4:49 AM
To: Albert D Martin
Cc: Osman Sivac; Brett D Anderson; lindsay@ifspty.com.au; Webbys Pty Ltd
Subject: RE: East West Arterial Fibre Fault

Albert,
I have a contact that i met through GUN, who said he can help us when needed, [Sch.4 Part 4 s.6 Person](#)

mailto:[Refuse Sch.4 Part 4 s.6 Personal inform](#)

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Pers](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: [Albert D Martin](#)
Sent: 19/03/2019 4:58 PM
To: [Colin W Otto](#)
Cc: [Osman Sivac](#); [Brett D Anderson](#); [lindsay@ifspty.com.au](#); [Webbys Pty Ltd](#)
Subject: RE: East West Arterial Fibre Fault

Hi Colin
I just sent the request to Transurban
Will follow up tomorrow to push through
The critical path will be this approval

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [4 Part 4 s.6 Pers](#)
E: [albert.d.martin@tmr.qld.gov.au](#)
W: [www.tmr.qld.gov.au](#)



From: Colin W Otto
Sent: Tuesday, 19 March 2019 2:50 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Brett D Anderson <brett.d.anderson@tmr.qld.gov.au>; lindsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: East West Arterial Fibre Fault

Albert,
Attached is a KML file for the fault and joint locations identified today on East West Arterial.



Tony Webb is proposing to commence Sunday night, and complete cable hauling Monday night. IFS will splice joints during day behind concrete barrier/guardrail. No traffic control will be required for the joint splicing.

Can you please discuss with Tony to confirm? Don't forget that your TGS must incorporate the Airport Link Tunnel exit onto East West Arterial for the cable installation.

Please let me know once all is confirmed.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

Colin W Otto

From: Colin W Otto
Sent: Tuesday, 19 March 2019 2:50 PM
To: Albert D Martin
Cc: Osman Sivas; Brett D Anderson; lindsay@ifspty.com.au; Webbys Pty Ltd
Subject: East West Arterial Fibre Fault
Attachments: East West Art Fault.kmz; EWA Fibre Repair 19_03_2019.pdf; East West Arterial Fibre Test Plan 2019_03_19.pdf

Albert,
Attached is a KML file for the fault and joint locations identified today on East West Arterial.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Tony Webb is proposing to commence Sunday night, and complete cable hauling Monday night. IFS will splice joints during day behind concrete barrier/guardrail. No traffic control will be required for the joint splicing.

Can you please discuss with Tony to confirm? Don't forget that your TGS must incorporate the Airport Link Tunnel exit onto East West Arterial for the cable installation.

Please let me know once all is confirmed.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [07 30665638](tel:0730665638)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 5 August 2019 1:37 PM
To: Colin W Otto
Cc: Lindsay Harbour
Subject: RE: Patching Test Results

Importance: High

Yes mate we are just putting the guys together now for kick off on Sunday night and once I have the P/O I'll let Lindsay know he can start.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 5 August 2019 12:13 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>
Subject: RE: Patching Test Results

Thanks.

I gave Albert the go ahead for Hoyland St. Has he let you know? Needs to be completed in the week commencing 11/08/2019.

Also the Gympie Road Fibre work is approved, but wait for your PO from Albert before commencing ordering for this.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Sent: Monday, 5 August 2019 12:11 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Cc: Lindsay Harbour <lindsay@ifspty.com.au>

Subject: Re: Patching Test Results

Hi Col I have spoken to Lindsay and he is in Melbourne but assured me we will have these to you today.

Kind regards, Tony Webb

On 5 Aug 2019, at 10:07 am, Colin W Otto <Colin.W.Otto@tmr.qld.gov.au> wrote:

Lindsay,

Can you please make sure you send through the fibre test results from last week today?

Thanks for your assistance on this work.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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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

Colin W Otto

From: Colin W Otto
Sent: Thursday, 14 March 2019 2:28 PM
To: lindsay@ifspty.com.au
Cc: Webbys Pty Ltd; Albert D Martin
Subject: East West Arterial Fibre Faults

Lindsay,

I have finally got back to look at the fibre issues we saw during the testing in January.

On the tests from RSC906 to CS515A and from RSC906 to Butterfield St, the OTDR results show macrobends at approx. 1640m.

I have measured the installed cable path from RSC906, and it is 1680m from RSC906 to the Widdop St joint. I also measured 1500m from RSC906 to VMS901.

Given that the spec calls for 20m every 200m, 10m at road crossings and 6m at cabinets, the pressure fault is unlikely to be in the Widdop St joint, as the distances measured plus coils doesn't add up. The fault is likely to be in the joint at VMS901.

I propose that we open the joint to inspect. We can verify the location by OTDR from

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - QTM

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 9 January 2019 1:13 AM
To: Charles Goh; Osman Sivac
Cc: lindsay@ifspty.com.au; Webbys Pty Ltd; Osman Sivac; Albert D Martin; George W Schwerin; Alan R Graham
Subject: RE: Pacific Motorway Fibre Fault

Charles,

All operational. Thanks to everyone who assisted. Special thanks to Matt, Kevin and Kevin (from Webby's [4 Part 4 s.6 Per](#)
[Sch.4 Part 4 s.6 Personal](#)) to specifically undertake this work for us. Greatly appreciated.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Charles Goh

Sent: Tuesday, 8 January 2019 1:51 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Cc: lindsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>;
Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Pacific Motorway Fibre Fault

Hello folks,

All permits , TC's & VMS & TMA & QPS are good to go for tonight.

Similar setup as last night.

Osman:

- TC's crew are from the same group " Verifact" Reference no : **420066188**
- QPS has a different roster. Permit **WYN 165/19**

NAME: S/Con Clint Dowd

STATION: Redland Bay Water Police

Kind regards,

Charles Goh

Senior Technologist (ITS) | Brisbane Operations Unit

RoadTek South | IMD | Department of Transport and Main Roads

10 Oregon Street | Hemmant Qld 4174

(07) 3066 4416 | M: [4 Part 4 s.6 Per](#)

charles.goh@tmr.qld.gov.au

www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Tuesday, 8 January 2019 6:47 AM
To: Osman Sivac; Albert D Martin
Cc: Charles Goh; lindsay@ifspty.com.au; Webbys Pty Ltd
Subject: FW: Pacific Motorway Fibre Fault
Attachments: Pacific Motorway Fibre Fault; WP_20190107_22_13_55_Pro.jpg

Osman/Albert,

We found the fibre damage last night in the barrier void we opened up. The cable had been slipping forward in the joint, and came to rest against a steel support inside the joint. The pressure on the tube eventually broke the cores. See attached photo. The red tube, now removed, was pinched against the steel bracket, and you can see the mastic on the steel.

To repair this, we are going to run a 12 core cable between voids to replace only the red tube. Lindsay has a handle on what is required, and will be arranging with Tony to get the material ready for installation tonight. Mick Thomas is unavailable, so we need an alternative person with OTDR expertise to assist Lindsay in the testing.

Can you please arrange traffic control for the same location tonight and co-ordinate with Lindsay and Tony? Please send me a confirmation email once everything is arranged. Assume we meet at the same location at 9pm again.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Colin W Otto
Sent: Thursday, 3 January 2019 9:14 AM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: Pacific Motorway Fibre Fault

Lindsay,

RoadTek are unable to attend until Monday night next week at 9pm. Does this suit you?

We are planning to open up the void and inspect the joint. If the fault is a pressure fault, we would manipulate the fibre to relieve the pressure. If the joint all looks okay, we will again shoot the fibre from CC2 and macrobend the fibre to determine whether the fibre is north or south of the void we are at. I would need you at the void in case the fibre needs attention, and I will have Osman to OTDR from CC2. He has his own machine, but you may need to show him what to do for our macro bend test. We can open further voids as necessary on the night to determine how to permanently repair the issue once we know more.

Please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Charles Goh

Sent: Thursday, 3 January 2019 9:08 AM

To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Cc: Matt P Welsh <Matt.P.Welsh@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: RE: Pacific Motorway Fibre Fault

Hello Albert,

Have just spoken with Colin;

Webby's should be on site

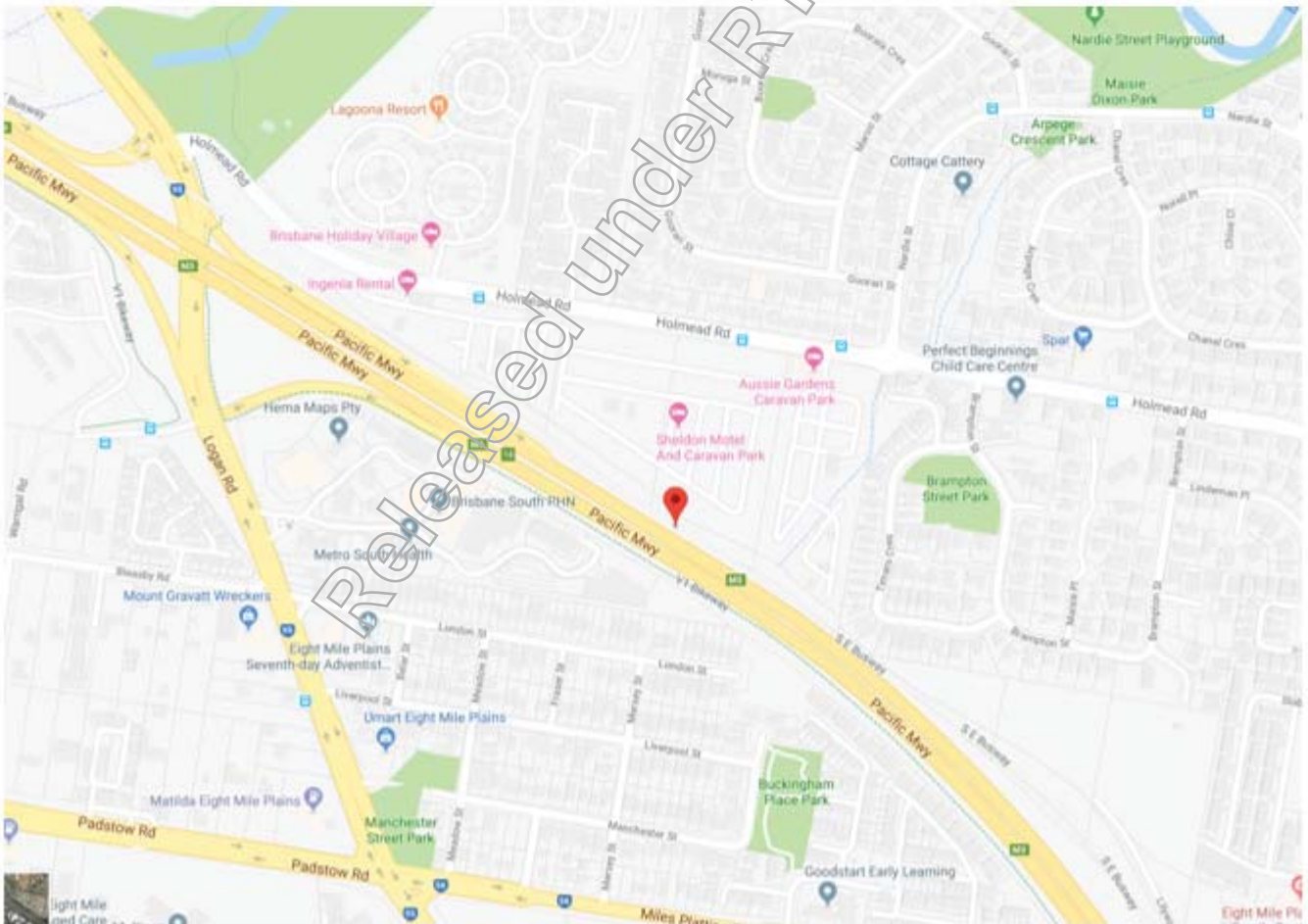
Albert; would you be able to spare a VMS & Bump truck crew available for us for 7th Monday night starting @2100 for mobile works please?.

Osman: would you be able to have a crew available with an OTDR please ?

Released under RTI - DTMR



-27.572519, 153.095315.



Kind regards,
Charles Goh
Senior Technologist (ITS) | Brisbane Operations Unit
RoadTek South | IMD | Department of Transport and Main Roads

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Monday, 7 January 2019 3:29 PM
To: lindsay@ifspty.com.au; Michael D Thomas
Cc: Osman Sivac; Albert D Martin; Webbys Pty Ltd
Subject: East West Arterial Fibre Testing
Attachments: East West Arterial Fibre Test Plan 7_01_2019.pdf

Lindsay/Mick,

I am keen to get the fibre testing of the East West Arterial fibre mods back on the agenda to do. I would like to tentatively book the work in for Monday, 21 January. As we discussed last year, IFS will provide 1 tech, OTDR and LSPM, and RoadTek will provide the same for the other end to speed up the testing.

I have attached my test plan for information. Could you please confirm your availability for starting at 8am on 21/01/2019? We will meet at RSC906, which is on the on-ramp to Southern Cross Way from Airport Drive. We will do the local testing around the area first, and finish with the tests from Butterfield St.

Please let me know. We can discuss tonight on site.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Thursday, 3 January 2019 9:18 AM
To: lindsay@ifspty.com.au
Cc: 'Webbys Pty Ltd'
Subject: RE: Pacific Motorway Fibre Fault

Thanks mate. Will confirm again as soon as RoadTek firm up mobile TC, but unless you hear from me, we are good for Monday night.

Thanks again for all your help yesterday.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: lindsay@ifspty.com.au <lindsay@ifspty.com.au>
Sent: Thursday, 3 January 2019 9:16 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: 'Webbys Pty Ltd' <tony@webbys.net.au>
Subject: RE: Pacific Motorway Fibre Fault

No problem at all.

Lindsay Harbour

Manager

E lindsay@ifspty.com.au
M 0488 707118



From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, January 3, 2019 9:14 AM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: Pacific Motorway Fibre Fault

Lindsay,
RoadTek are unable to attend until Monday night next week at 9pm. Does this suit you?

We are planning to open up the void and inspect the joint. If the fault is a pressure fault, we would manipulate the fibre to relieve the pressure. If the joint all looks okay, we will again shoot the fibre from CC2 and macrobend the fibre to determine whether the fibre is north or south of the void we are at. I would need you at the void in case the fibre needs attention, and I will have Osman to OTDR from CC2. He has his own machine, but you may need to show him what to do for our macro bend test. We can open further voids as necessary on the night to determine how to permanently repair the issue once we know more.

Please let me know.

Kind regards,

Col Otto

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Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Charles Goh

Sent: Thursday, 3 January 2019 9:08 AM

To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivic <Osman.Z.Sivic@tmr.qld.gov.au>

Cc: Matt P Welsh <Matt.P.Welsh@tmr.qld.gov.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: RE: Pacific Motorway Fibre Fault

Hello Albert,

Have just spoken with Colin;

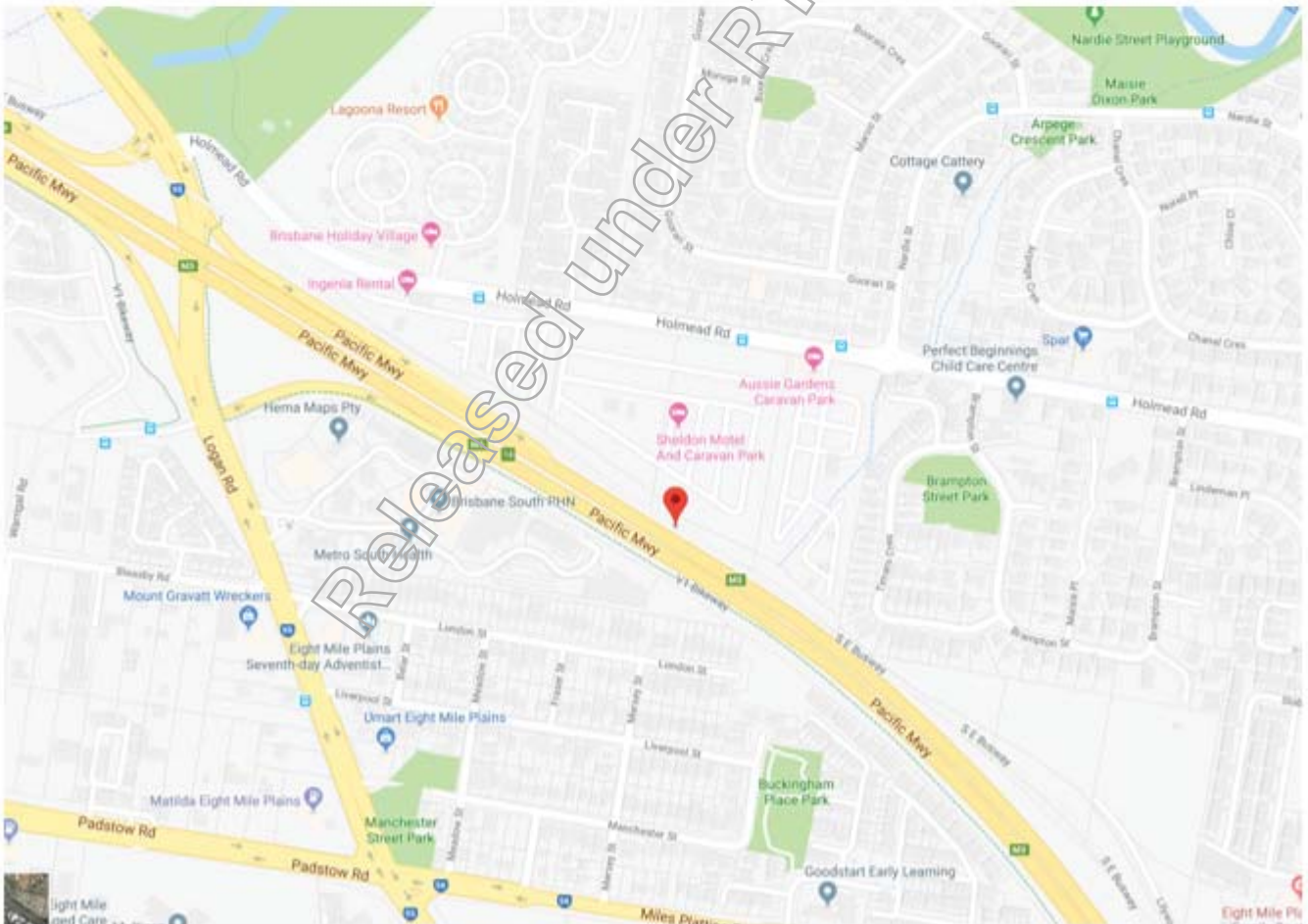
Webby's should be on site

Albert; would you be able to spare a VMS & Bump truck crew available for us for 7th Monday night starting @2100 for mobile works please?.

Osman: would you be able to have a crew available with an OTDR please ?



-27.572519, 153.095315.



Kind regards,
Charles Goh
Senior Technologist (ITS) | Brisbane Operations Unit
RoadTek South | IMD | Department of Transport and Main Roads

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Colin W Otto

From: Colin W Otto
Sent: Monday, 24 December 2018 12:11 PM
To: Webbys Pty Ltd; Lindsay Harbour
Cc: Albert D Martin; Osman Sivas; Michael D Thomas
Subject: Fibre Fault Investigation

Tony,

We have a fibre fault on Pacific Motorway, blown fibre around Logan Road. I have an idea where it is located, and believe it could be related to the macro bend issues that are common on the Busway.

I need assistance to attend site to confirm the location of the fault. Is someone available in the first week of January to assist? Please let me know who I can contact on 2nd January.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.6 Pel](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 5 December 2018 7:02 AM
To: Tony | Webbys Pty Ltd; Albert D Martin
Cc: Lindsay Harbour
Subject: RE: Southern Cross Way Fibre Work

Albert,
Does Tony need a PO number for this?

Tony/Lindsay,
Please let me know when you are ready to start.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 4 December 2018 2:20 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work

Cheers thanks mate,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Tuesday, 4 December 2018 2:08 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work

Hi Tony approved

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical and ITS Team
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: [Part 4 s.7\(1\)\(b\)](#)
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Friday, 30 November 2018 11:00 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work
Importance: High

Hi Al,

Apologise for the delay but here is the pricing as requested,

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$ 1968 plus GST.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 28 November 2018 5:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: Southern Cross Way Fibre Work

Tony,

Can you please provide Albert with a price to complete the work highlighted in green on the attached plan? The 24 core cables were hauled by BCC, and are sitting in the pits in front of the 2 cabinets. Just need to be fed into the cabinets and terminated. I took Lindsay to site 2 weeks ago to show what needed to be done, so he is already aware.

Testing is the 12 cores between CS515 and CS515A, and 4 cores between CS515A and RSC906 at East West Arterial. I will be available to provide access to site and during testing. Bidirectional OTDR and LSMP.

Any queries, please let me know.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Colin W Otto
Sent: Tuesday, 4 December 2018 1:51 PM
To: Albert D Martin
Subject: FW: Southern Cross Way Fibre Work

Importance: High

Albert,
Did you approve this yet? Please arrange for it to be completed asap.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Friday, 30 November 2018 11:00 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: RE: Southern Cross Way Fibre Work
Importance: High

Hi Al,

Apologise for the delay but here is the pricing as requested,

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$ 1968 plus GST.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 28 November 2018 5:09 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: Southern Cross Way Fibre Work

Tony,

Can you please provide Albert with a price to complete the work highlighted in green on the attached plan? The 24 core cables were hauled by BCC, and are sitting in the pits in front of the 2 cabinets. Just need to be fed into the cabinets and terminated. I took Lindsay to site 2 weeks ago to show what needed to be done, so he is already aware.

Testing is the 12 cores between CS515 and CS515A, and 4 cores between CS515A and RSC906 at East West Arterial. I will be available to provide access to site and during testing. Bidirectional OTDR and LSMP.

Any queries, please let me know.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [07 3066 5638](tel:0730665638)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Wednesday, 28 November 2018 5:09 PM
To: Webbys Pty Ltd
Cc: Lindsay Harbour; Albert D Martin; Osman Sivac
Subject: Southern Cross Way Fibre Work
Attachments: Southern Cross Way Fibre Work Scope.pdf

Tony,

Can you please provide Albert with a price to complete the work highlighted in green on the attached plan? The 24 core cables were hauled by BCC, and are sitting in the pits in front of the 2 cabinets. Just need to be fed into the cabinets and terminated. I took Lindsay to site 2 weeks ago to show what needed to be done, so he is already aware.

Testing is the 12 cores between CS515 and CS515A, and 4 cores between CS515A and RSC906 at East West Arterial. I will be available to provide access to site and during testing. Bidirectional OTDR and LSMP.

Any queries, please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Colin W Otto
Sent: Tuesday, 30 October 2018 7:41 AM
To: Lindsay Harbour; Webbys Pty Ltd
Subject: Gympie Road Test Results

Lindsay,

I think you may have forgotten to forward on the test results from our testing on Gympie Road last week. Can you please send when you can?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Sunday, 30 June 2019 12:58 PM
To: roadtektebrisbanecosting; Albert D Martin; Colin W Otto
Subject: Invoice 00006842; From Webby's Pty Ltd
Attachments: INV00006842.pdf

Please contact Tony Webb via email tony@webbys.net.au if you have any queries with this invoice.
Regards
Tony Webb



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Colin W Otto
Sent: Monday, 15 October 2018 8:14 AM
To: Albert D Martin
Cc: Webbys Pty Ltd
Subject: East West Fibre Testing

Albert,
I called Osman and Lindsay yesterday afternoon to cancel the testing for today due to weather. We will reschedule another day once the weather clears.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Matt Dawson <matt@webbys.net.au>
Sent: Tuesday, 13 August 2019 3:27 PM
To: Colin W Otto; Tony | Webbys Pty Ltd
Subject: RE: hoyland st fibre audit, pit 606 joint photos
Attachments: Gympie Rd ITS Pit Markup.pdf; HOYLAND ST FIBRE AUDIT.xlsx; 357470_B Gympie Rd ITS Drg 29.pdf; 357472_B Gympie Rd ITS Drg 31.pdf; TMR Gympie Rd ITS Fibre - Scope Report.pdf

Importance: High

Hi Col,
Please see attached the report for the Gympie Rd ITS Fibre scope. Also updated Fibre audit spreadsheet
If anything does not make sense please call.



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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 13 August 2019 6:35 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Matt Dawson <matt@webbys.net.au>; lindsay@ifspty.com.au
Subject: RE: hoyland st fibre audit, pit 606 joint photos

Will this include the photos taken by Lindsay with descriptions of what the photos relate to? I need this all together and must be today please. Designer is waiting on the information.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 12 August 2019 5:04 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Matt Dawson <matt@webbys.net.au>
Subject: RE: hoyland st fibre audit, pit 606 joint photos
Importance: High

Hi Col,

Yes mate that is correct, Matt will be putting it together tomorrow and sending it over to you.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 12 August 2019 3:34 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: hoyland st fibre audit, pit 606 joint photos

Tony,

I assume you are providing the report for the cable location? When will you be sending this through?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: [redacted] Part Refuse Sch.4 Part 4 s.6 Personal information
Sent: Monday, 12 August 2019 3:19 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: tony@webbys.net.au; lindsay@ifspty.com.au
Subject: Fwd: hoyland st fibre audit, pit 606 joint photos

Hi Col,

This is 1 of 3 emails regarding the audit

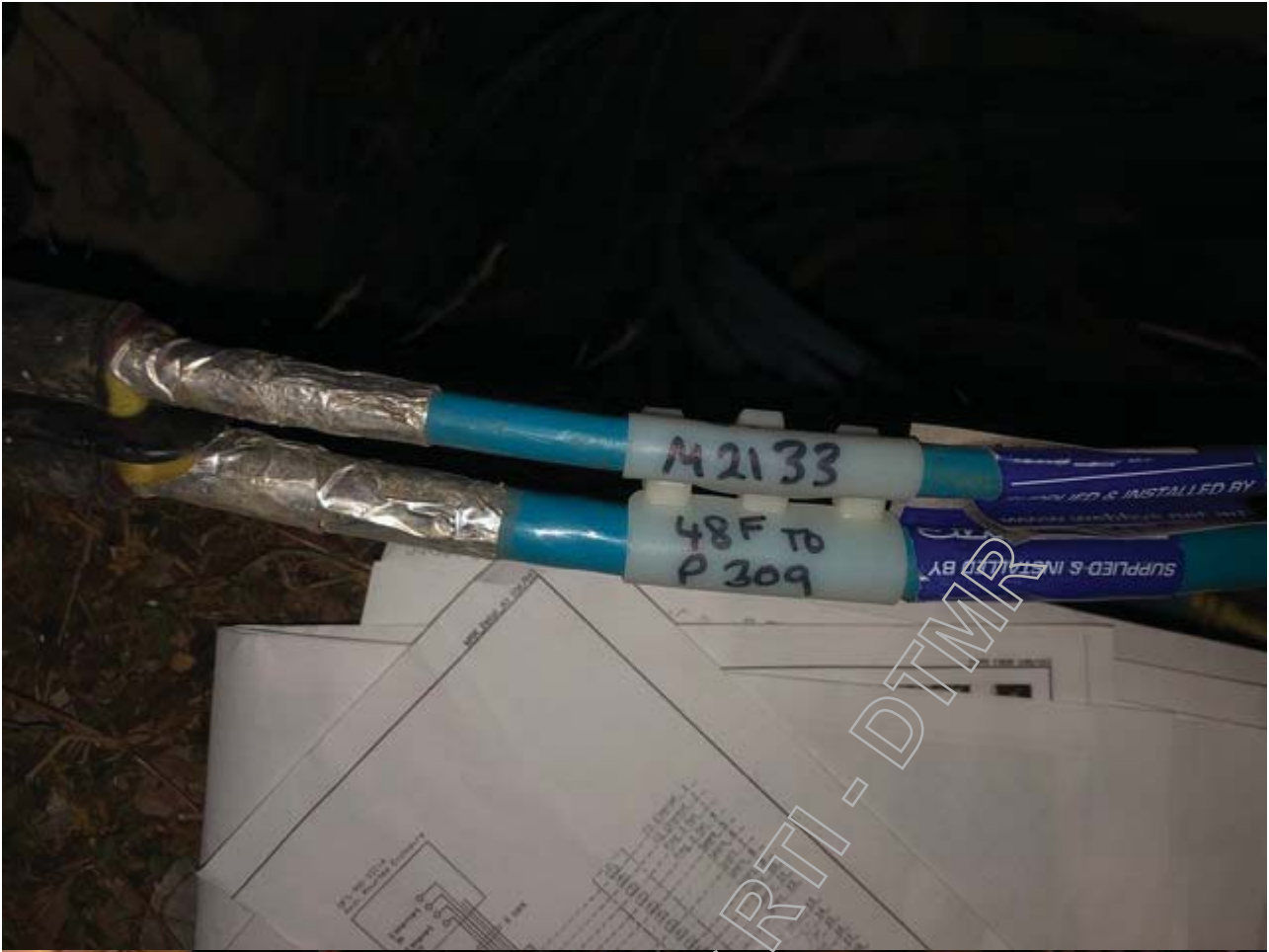
Regards

[redacted]
h.4 Part 4 s.6 Perso

Begin forwarded message:

From: [redacted] Part Refuse Sch.4 Part 4 s.6 Personal information
Date: 12 August 2019 at 3:13:39 pm AEST
To: [redacted] Part Refuse Sch.4 Part 4 s.6 Personal information
Subject: hoyland st fibre audit, pit 606 joint photos





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Colin W Otto

From: Matt Dawson <matt@webbys.net.au>
Sent: Tuesday, 7 May 2019 11:41 AM
To: Tony | Webbys Pty Ltd; Colin W Otto
Cc: Albert D Martin
Subject: RE: Moggill road to Almay ITS upgrade project

Hi we have 2,900m still on the drum

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 7 May 2019 7:16 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Matt,

Can you check length and confirm we have enough please?



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 7 May 2019 7:02 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,

Agree. Please confirm there is sufficient cable on the 36 core drum and use as necessary. Terminating equipment, FOBOTS/joint will remain the same. Unused cores to be stored in trays.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Sent: Tuesday, 7 May 2019 7:00 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>

Subject: RE: Moggill road to Almay ITS upgrade project

Importance: High

Hi Col,

Mate my apologies, I did think we were only installing the fibre as per the email on the 22/03, we are more than happy to use the 36 we already have if you like ?



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Sent: Friday, 3 May 2019 3:09 PM

To: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Moggill road to Almay ITS upgrade project

Tony,
I think there may be some confusion regarding the scope for supply of fibre for this project.

It was TMR's intention that you would supply the new 24 core GRP cable. Did you allow for the supply of the cable, or did you assume TMR was supplying the cable?

It appears in your price you state 'Install fibre' which makes me think you understood we would be supplying the cable. If this is the case, we can use the 36 core cable on the drum you already hold for us.

Please let me know.

Kind regards,
Colin Otto.

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 27 March 2019 1:37 PM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: Moggill road to Almay ITS upgrade project
Importance: High

FYI mate,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Tony | Webbys Pty Ltd
Sent: Monday, 25 March 2019 6:40 PM
To: 'Albert D Martin' <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Moggill road to Almay ITS upgrade project
Importance: High

Hi Al,

Please find quote attached for Moggill as requested and if you need anything further please just let me know,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Friday, 22 March 2019 3:49 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: Moggill road to Almay ITS upgrade project

Hi Tony

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

I will take care of the rest, unless you can see something that I have missed
Any questions please let me know thanks
Please provide quote thanks

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: albert.d.martin@tmr.qld.gov.au
E: albert.d.martin@tmr.qld.gov.au



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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 4 October 2018 5:52 PM
To: Colin W Otto
Cc: Lindsay Harbour; Albert D Martin; Osman Sivac
Subject: RE: Gympie Road Fibre Modification

No problem Col, will get onto it ASAP.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Watermark: Please do not release under RTI - DMR

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 5:20 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: Gympie Road Fibre Modification

Tony,

Please provide pricing to Albert to complete the works on the attached drawings.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Refer Dwg 357446 for joint location.

We would like the work to be undertaken in the week commencing 22 October. Can you accommodate this?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per:

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Released Under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 4 October 2018 9:18 AM
To: Colin W Otto
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

No stress mate,



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

www.webbys.net.au

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 8:33 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Understand, and apologies for the delay.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Thursday, 4 October 2018 8:14 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Charles Goh <Charles.z.Goh@tmr.qld.gov.au>; Rudy Budianto <Rudy.Z.Budianto@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Thanks mate, just looking to close off last month.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 4 October 2018 8:14 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Charles Goh <Charles.z.Goh@tmr.qld.gov.au>; Rudy Budianto <Rudy.Z.Budianto@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: Invoice 00006630; From Webby's Pty Ltd

Tony,
I think Albert was doing a variation of the original Purchase Order. Part Refuse Sch.4 Part 4 s.6 Personal information

Albert,
Please confirm to Tony as soon as possible.

Rudy/Charles/Osman,
If you know, can you please let Tony know?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Thursday, 4 October 2018 8:12 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: Invoice 00006630; From Webby's Pty Ltd

Hi Col, I still haven't seen a P/O for this one yet from AI, would you mind checking and seeing if its been raised yet please mate?

Regards

Tony Webb



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

Subject: End of year de brief
Location: Spanish Garden Breakfast Creek Hotel
Start: Wed 12/12/2018 11:30 AM
End: Wed 12/12/2018 1:30 PM
Recurrence: (none)
Meeting Status: Accepted
Organizer: Yvette | Webbys Pty Ltd

Gents,

I'd like to meet with you all next week to go over the year to date and see if there is anything we can improve on for 2019 if your available?

Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 4 October 2018 8:12 AM
To: Colin W Otto
Subject: Invoice 00006630; From Webby's Pty Ltd
Attachments: INV00006630.pdf

Hi Col, I still haven't seen a P/O for this one yet from AI, would you mind checking and seeing if its been raised yet please mate?

Regards

Tony Webb



WEBBY'S
The Cabling Specialists Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 3 October 2018 6:31 PM
To: Colin W Otto
Cc: lindsay@ifspty.com.au; Albert D Martin
Subject: RE: East West Arterial Fibre Test Plan

Col,

No problem mate, we are always happy to help where we can and I'll have Lindsay make a note of those dates tomorrow.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 3 October 2018 5:53 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: lindsay@ifspty.com.au; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: East West Arterial Fibre Test Plan

Tony,

Thanks for reviewing the price. I appreciate the collaborative way that we all work together. If it does end up taking us longer, we will negotiate the price as required.

Can we tentatively book in 15/16 October as the date for the works? Albert will formally advise you to proceed.

I have another small job on Gympie Road that I will put together. I briefed Lindsay on it today so he understands what is required. RoadTek will provide traffic control, we just need the splice and testing services. Hope to send this tomorrow.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Wednesday, 3 October 2018 3:53 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: RE: East West Arterial Fibre Test Plan

Importance: High

Gents,

Reviewed pricing attached as requested, if you need anything further just let me know !



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd

Sent: Wednesday, 26 September 2018 3:50 PM

To: 'Colin W Otto' <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: RE: East West Arterial Fibre Test Plan

Gents,

Our quote is attached and we expect it to take between two and three days on site and then a couple of days to produce the test results, let me know if you need anything further!



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Sent: Monday, 24 September 2018 3:45 PM

To: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: East West Arterial Fibre Test Plan

Tony,

Can you please supply a quote to Albert to carry out OTDR/LSPM as per the attached spreadsheet? I have identified on the spreadsheet which require both OTDR and LSPM, and those which required only OTDR. Could you please also indicate how long it will take to complete? Testing hours will be between 6am and 6pm, and I will be onsite to assist with access as required.

Any queries, please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 3 October 2018 3:53 PM
To: Colin W Otto; Albert D Martin
Cc: Osman Sivac
Subject: RE: East West Arterial Fibre Test Plan
Attachments: Copy of East West Vary 2.xls

Importance: High

Gents,

Reviewed pricing attached as requested, if you need anything further just let me know !



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Tony | Webbys Pty Ltd
Sent: Wednesday, 26 September 2018 3:50 PM
To: 'Colin W Otto' <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Fibre Test Plan

Gents,

Our quote is attached and we expect it to take between two and three days on site and then a couple of days to produce the test results, let me know if you need anything further!



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: East West Arterial Fibre Test Plan

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Any queries, please let me know.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [4 Part 4 s.6 Per](tel:0730665638)
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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 26 September 2018 3:50 PM
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Cc: Osman Sivac
Subject: RE: East West Arterial Fibre Test Plan
Attachments: East West Vary 2.xls

Gents,

Our quote is attached and we expect it to take between two and three days on site and then a couple of days to produce the test results, let me know if you need anything further!



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: East West Arterial Fibre Test Plan

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Any queries, please let me know.

Kind regards,

Col Otto

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Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Sunday, 30 June 2019 1:22 PM
To: roadtekbrisbanecosting; Albert D Martin; Colin W Otto
Subject: RE: Invoice 00006842; From Webby's Pty Ltd

Hello,

Earlier this invoice was sent and it is incorrect and was sent by mistake, please do not forward it for processing and please dispose of any copies, we apologize for the mistake.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Sunday, 30 June 2019 12:58 PM
To: roadtekbrisbanecosting@tmr.qld.gov.au; Albert.D.Martin@tmr.qld.gov.au; Colin.W.Otto@tmr.qld.gov.au
Subject: Invoice 00006842; From Webby's Pty Ltd

Please contact Tony Webb via email tony@webbys.net.au if you have any queries with this invoice.
Regards
Tony Webb



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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Released under RTI/OTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 24 September 2018 4:32 PM
To: Albert D Martin
Cc: Dwayne A Boyton; Colin W Otto
Subject: RE: East West Arterial - Toombul

Sorry gents but do we have a P/O number on this one yet, my accounts lady is pushing me for it?



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Release Under RTI - DMR

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Thursday, 13 September 2018 5:59 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Dwayne A Boyton <Dwayne.A.Boyton@tmr.qld.gov.au>
Subject: RE: East West Arterial - Toombul

Hi Tony
Your quote is approved

kind regards,

Albert Martin
Project Manager | Brisbane Operations
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: Part 4 s.6 Per



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Thursday, 13 September 2018 1:21 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: East West Arterial - Toombul
Importance: High

Hi Albert,

Quote attached as requested, let me know if you need anything else.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 24 September 2018 4:07 PM
To: Colin W Otto
Cc: Lindsay Harbour; Albert D Martin; Osman Sivac
Subject: RE: East West Arterial Fibre Test Plan

Importance: High

Hi Col,

Yes mate that's no problem I'll get that over to Albert on Wednesday for you,



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 24 September 2018 3:45 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: East West Arterial Fibre Test Plan

Tony,

Can you please supply a quote to Albert to carry out OTDR/LSPM as per the attached spreadsheet? I have identified on the spreadsheet which require both OTDR and LSPM, and those which required only OTDR. Could you please also indicate how long it will take to complete? Testing hours will be between 6am and 6pm, and I will be onsite to assist with access as required.

Any queries, please let me know.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 13 September 2018 1:28 PM
To: Colin W Otto; Albert D Martin
Subject: RE: East West Arterial - Toombul

Importance: High

Yes mate it does for sure,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 13 September 2018 1:22 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: East West Arterial - Toombul

Tony,
Does it include the 12 extra splices to be done at VMS902?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Thursday, 13 September 2018 1:21 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: East West Arterial - Toombul
Importance: High

Hi Albert,

Quote attached as requested, let me know if you need anything else.



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 13 September 2018 1:21 PM
To: Albert D Martin
Cc: Colin W Otto
Subject: East West Arterial - Toombul
Attachments: DTMR - East West Arterial Modification Toombul.xls

Importance: High

Hi Albert,

Quote attached as requested, let me know if you need anything else.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 13 September 2018 9:33 AM
To: Colin W Otto; Lindsay Harbour
Cc: Adrian Villas
Subject: RE: GUN project testing

Yes mate just downloading now and will send over soon,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 13 September 2018 9:27 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Adrian Villas <adrian.villas@tmr.qld.gov.au>
Subject: RE: GUN project testing

Tony,
Did you not do Light Source Power Meter? Was it requested? If you have the results, please send.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Thursday, 13 September 2018 8:57 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Adrian Villas <adrian.villas@tmr.qld.gov.au>
Subject: GUN project testing
Importance: High



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Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 13 September 2018 8:57 AM
To: Colin W Otto
Cc: Adrian Villas
Subject: GUN project testing
Attachments: nudgee its lvl 2 266 George Gun project GUN025.trc; lvl 2 266 George Nudgee its Gun project GUN025.pdf; lvl 2 266 George Nudgee its Gun project GUN026.trc; nudgee its lvl 2 266 George Gun project GUN025.pdf; lvl 2 266 George Nudgee its Gun project GUN025.trc; nudgee its lvl 2 266 George Gun project GUN026.pdf; nudgee its lvl 2 266 George Gun project GUN026.trc; lvl 2 266 George Nudgee its Gun project GUN026.pdf

Importance: High



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 Nort

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 13 September 2018 8:54 AM
To: Colin W Otto
Cc: Albert D Martin; Lindsay Harbour
Subject: RE: Scope of Works - MAL196 and VMS902 Mods

No problem Col,

Will get it sorted and back to you ASAP,



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Thursday, 13 September 2018 7:44 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Subject: Scope of Works - MAL196 and VMS902 Mods

Tony,

Can you please provide pricing to Albert for the attached scope. Please cc me a copy. Note a small part of the work shown at VMS902 has already been scoped and invoiced in the last work, but is shown here in this package. Lindsay has been to site and knows what we require. We will use 50m of the 36 core fibre drum you hold for us from the Western Freeway repair. After we complete this, I will get you to drop the drum back to our Butterfield St shed.

Any queries, please don't hesitate to call.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: Part 4 s.7(1)(b)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 11 September 2018 9:29 AM
To: Colin W Otto; Matt Dawson
Subject: RE: CS191 Cable Investigation and Joint Reconstruction

Hi Col,

Supplier is Middy's Data and Electrical and part number is OMECAN – TAG, let me know if you need anything else.



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 11 September 2018 9:23 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Matt Dawson <matt@webbys.net.au>
Subject: FW: CS191 Cable Investigation and Joint Reconstruction
Importance: High

Matt/Tony,

Can you please give me a part number or manufacturer of this label please? Trying to specify it in an upcoming job.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638

M: [Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Matt Dawson [<mailto:matt@webbys.net.au>]
Sent: Friday, 20 October 2017 6:26 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: CS191 Cable Investigation and Joint Reconstruction
Importance: High

Hi Col,
See attached image for the cable tags we propose to use on this project.



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From: Tony | Webbys Pty Ltd
Sent: Thursday, October 19, 2017 11:14 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Matt Dawson <matt@webbys.net.au>
Subject: RE: CS191 Cable Investigation and Joint Reconstruction
Importance: High

Hi Col,

As discussed on this project we will use the white tags we have, Matt please send Col a photo of one of the tags marked up when you have one. Attached is the labels that we can have made on future projects if required, let me know if you need anything else.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto [<mailto:Colin.W.Otto@tmr.qld.gov.au>]
Sent: Thursday, 19 October 2017 7:51 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: FW: CS191 Cable Investigation and Joint Reconstruction
Importance: High

Tony,

I note in your quote, you say TMR to supply labels. I was expecting the labels would be supplied by you. It there any additional cost for the labels, and can you please provide a sample of your proposed label. PDF data sheet or website link ok.

I want to be onsite for the joint audit, so please give me 5 days notice of the day planned to do this.

Please note the Granard Road to Sherwood Road job is from the R2D contractor, not RoadTek, and R2D will provide approvals for that work if it is to progress.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.7\(1\)\(b\)](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Albert D Martin
Sent: Thursday, 19 October 2017 7:42 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: FW: CS191 Cable Investigation and Joint Reconstruction
Importance: High

From: Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Thursday, 10 August 2017 10:59 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: CS191 Cable Investigation and Joint Reconstruction
Importance: High

Hi Albert,

Attached is our pricing and scope for the works as requested by Col, if either of you have any questions please let me know.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto [<mailto:Colin.W.Otto@tmr.qld.gov.au>]
Sent: Wednesday, 9 August 2017 7:09 AM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Webbys Pty Ltd <tony@webbys.net.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: FW: CS191 Cable Investigation and Joint Reconstruction

Albert,

Currently the network for East West Arterial is connected to 2 x ADSL services. Others have made attempts to connect this network to the backbone fibre in the past, but for whatever reasons, they were unable to complete. I would like you to engage Webbys to trace out some cables for me, audit the existing joint at CS191.

I have met with Tony to discuss the scope, and he is coming back to me with us price. I would like you to engage him to carry out this work once we have agreed on the cost.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

There will be subsequent engagement of Webby's again to complete further work, but we cannot scope this until after the completion of this work.

Tony,

Please supply your price to Albert (cc to me) for the above scope and deliverables. When Lindsay goes to site to open the joint and test the cores, please let me know, as I would like to accompany him.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.7\(1\)\(b\)](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Colin W Otto

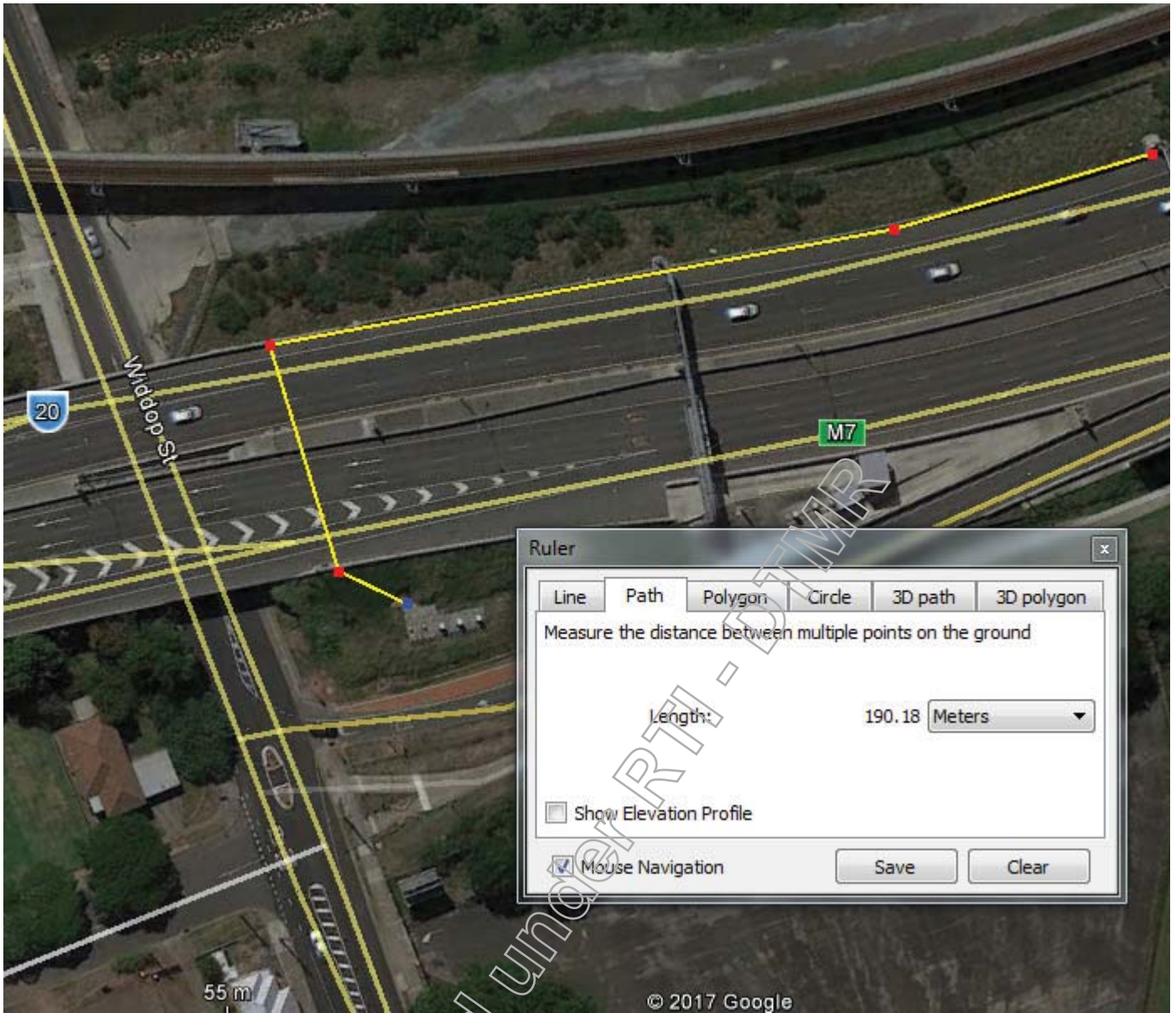
Sent: Wednesday, 9 August 2017 6:42 AM

To: 'Webbys Pty Ltd' <tony@webbys.net.au>

Subject: RE: CS191 Cable Investigation and Joint Reconstruction

Tony,

Agree 1300m to Nundah Tunnel from CS191. The first cabinet from CS191 on the East West Arterial is VMS901, and is approximately 200m from CS191. I have attached plans to assist with EWA, however I have nothing for Nundah Tunnel.



Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [4 Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Tuesday, 8 August 2017 4:31 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: RE: CS191 Cable Investigation and Joint Reconstruction

Importance: High

Hi Col,

I have worked out an aprox length of the Nundah cable as aprox 1300m and the 48 SMOF as a max of 300m to the cabinet, can you confirm you agree and I'll get this quote together for you?



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto [<mailto:Colin.W.Otto@tmr.qld.gov.au>]
Sent: Thursday, 3 August 2017 2:59 PM
To: Webbys Pty Ltd <tony@webbys.net.au>
Subject: CS191 Cable Investigation and Joint Reconstruction

Tony,
I am looking for an indicative price for some work.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

What would be necessary for me to supply to you to enable you to provide a price? I would like to get this going pretty quickly, as BCC will soon be bringing a 216 core cable from KSD to this location, and will want to connect to our 192 core cable back to the city.

Please let me know.

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 27 August 2018 12:42 PM
To: Colin W Otto
Cc: Lindsay Harbour
Subject: RE: East West Arterial Modification

Importance: High

Hi Col,

A ball park would be around 4 Part 4 s.7(1)(b) C ex GST mate,



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 27 August 2018 12:25 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Lindsay Harbour <lindsay@ifspty.com.au>
Subject: RE: East West Arterial Modification

Tony,

Indicatively, what would this cost to do something similar for installing a joint on an existing cable (144 core – other cores expressed) and a 12 core tail into a cabinet to a new 12 core FOBOT?

Ball park?? Putting in a capital submission to connect to BCC fibre along a few corridors.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Monday, 13 August 2018 10:51 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification
Importance: High

Hi Col,

Extra works pricing is attached, let me know if you need anything further or if you would like us to proceed.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North Quay

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 6 August 2018 11:20 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification

Tony,
There is more to come. Two more cabinets to splice.

Lindsay,

You already have the plans, so can you please provide a price through Tony for RSC906 and RSC908/VMS902?

Albert,

Can you please raise a PO for Tony for this work?

Also, following on from BCC's work on the Widdop St joint, we are going to need to carry out testing at the completion of Lindsay slicing the next 2 cabinets. There was issues in the Widdop St joint with how the cable was originally spliced, and the tubes had been splice from inner wrap to outer wrap, but not all of them. BCC have matched the wraps 1 to 1 now, but we think that there may still be issued further upstream in the tunnel. The testing we will undertake will identify this. I will create a spreadsheet for the required testing, and Lindsay can price it up.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Monday, 6 August 2018 10:30 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: RE: East West Arterial Modification

Hi Col,

Lindsay completed the works as below last night so just wanted to know what P/O to use and where to shoot the invoice?



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Tuesday, 31 July 2018 10:27 AM
To: 'Colin W Otto' <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification
Importance: High

Hi Col,

Pricing below for item 2, see Sch.4 Part 4 s.7(1)(b) Commercial after we have had a look over them.

Scope of work:

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$3550.00 ex GST



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 30 July 2018 12:45 PM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: East West Arterial Modification

Lindsay,
Can you please provide a price to complete Scope of Work Activity Items 2, 3 and 4 on the attached plans? Please price each Activity Item individually. Please submit the price through Webby's for engagement under the current SOA.

While we are out on Wednesday to do the bare fibre core test, I will take you to each cabinet to take you through the work required. We require Item 2 to be completed on Sunday night. RoadTek will provide the traffic control. Item 3 and 4 do not require traffic control to complete, and we will discuss when these can be completed.

Albert,
Can you please confirm start time to Lindsay for Sunday night? To carry out the work, the slow lane on East West Arterial will be required to be closed so the fibre splicing van can set up on the shoulder and complete the joint in the barrier void. Can you please make arrangements to engage the traffic control and coordinate with Lindsay?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Thursday, 23 August 2018 12:27 PM
To: Adrian Villas
Cc: Colin W Otto
Subject: RE: GUN Patching requirements from BMTMC to QLD Transurban cabinet Nudgee Road
Attachments: GUN Fibre Works.xls
Importance: High

Hi Adrian,

Please find pricing attached for the fibre works - GUN Project boundary at Nudgee to BMTMC, if you have any questions please let me know.



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Adrian Villas <adrian.villas@tmr.qld.gov.au>
Sent: Tuesday, 21 August 2018 10:35 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Richard Bassingthwaighte <richard.z.bassingthwaighte@tmr.qld.gov.au>
Subject: GUN Patching requirements from BMTMC to QLD Transurban cabinet Nudgee Road

Hi Tony/Lindsay

As discussed on the phone, there is some patching works that need to be done from GUN Project boundary at Nudgee to BMTMC. Below is the scope of work and attached are some relevant document. Can you please advise an estimated cost for the work and a date and duration when the work can be done. Your contact will be me and/or Richard Bassingthwaite. 4 Part 4 s.6 Pers Please advise if you need further information. Thanks for your help.



Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Kind regards,

Adrian Villas

Senior Engineer (Electrical) | RPEQ 16620 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | Brisbane City - 313 Adelaide Street | Brisbane City Qld 4000

GPO Box 1412 | Brisbane Qld 4001

P: (07) 3066 5894 | M: 4 Part 4 s.6 Pers

adrian.villas@tmr.qld.gov.au

www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 12:40 PM
To: Colin W Otto; lindsay@ifspty.com.au
Cc: Albert D Martin
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Yes mate I'll make sure Lindsay has them when we start,



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 12:37 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Can we also please ensure that we have a permanent label maker to label the patch leads as we go?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 15 July 2019 9:43 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St
Importance: High

Hi Col,

That's no problem at all I'll get the order underway now,



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 15 July 2019 9:06 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; lindsay@ifspty.com.au
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Tony/Lindsay,
Albert will be sending you soon the PO to proceed with this work. There is a quantity change in the number of cores that we need to test, and also the number of patches. Instead of 2 core and 1 patch lead, now we need to do 4 cores and 2 patch leads. I assume this only affects the materials, as the time will only marginally increase, and you will bill by the hour.

Can you please proceed with procuring the patch leads, and advise when they will be received? We need about a week's notice to arrange Transurban permits, so need to know exactly when you are available to do this. Please let me know as soon as possible.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Albert D Martin

Sent: Thursday, 6 June 2019 5:32 PM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Colin

This is the quote form Webbys

Transurban Permits

Will need to know the location you are working as I require to submit TGS

kind regards,

Albert Martin

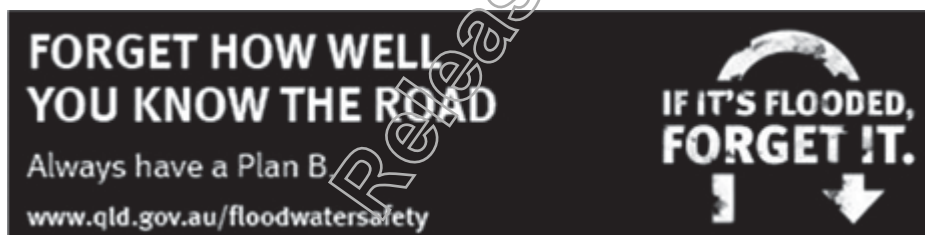
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: [Part 4 s.6 Per](#)

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd <tony@webbys.net.au>

Sent: Thursday, 6 June 2019 5:29 PM

To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>

Subject: RE: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Al,

Sorry for the delay [Refuse Sch.4 Part 4 s.6 Personal inform](#) please see the breakdown and costs below and let me know if you need anything further.

[Part Refuse Sch.4 Part 4 s.7\(1\)\(b\) Commercial value](#)

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

\$3800 plus GST.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Thursday, 6 June 2019 1:43 PM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Hi Tony Did you see this?

kind regards,

Albert Martin
Project Manager | Brisbane Operations | Electrical & ITS
RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174
P: (07) 30664486 | M: Part 4 s.6 Per
E: albert.d.martin@tmr.qld.gov.au
W: www.tmr.qld.gov.au



From: Colin W Otto
Sent: Wednesday, 5 June 2019 4:23 PM
To: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Cc: lindsay@ifspty.com.au; Webbys Pty Ltd <tony@webbys.net.au>
Subject: Logan Enhancement Project - Backbone Fibre Connection to BMTMC from Brandl St

Albert,
Can you obtain pricing from Webby's to install patching to connect BMTMC to Mount Lindsay Highway/Logan Motorway Interchange? The requirements are attached. You will also need to allow for arranging permits with Transurban.

Lindsay,
Happy to talk this through in the morning with you. This is similar to what you did for Gateway Upgrade Project.

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [07 30665638](tel:0730665638)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 14 August 2018 9:40 AM
To: Colin W Otto
Cc: Albert D Martin; Osman Sivac; Lindsay Harbour
Subject: RE: East West Arterial Modification

Col,

Yes mate they are included, being it's a very small component it is not mentioned but yes it is definitely included.



WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Released under RTI - DMR

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 14 August 2018 9:38 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Subject: RE: East West Arterial Modification

Tony,

There are 4 cores to splice at VMS902 as well, but the quote doesn't mention it. Lindsay was aware of these. Is it included in the quote?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: Part 4 s.6 Per
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]
Sent: Monday, 13 August 2018 10:51 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification
Importance: High

Hi Col,

Extra works pricing is attached, let me know if you need anything further or if you would like us to proceed.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North Quay

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 6 August 2018 11:20 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification

Tony,
There is more to come. Two more cabinets to splice.

Lindsay,

You already have the plans, so can you please provide a price through Tony for RSC906 and RSC908/VMS902?

Albert,

Can you please raise a PO for Tony for this work?

Also, following on from BCC's work on the Widdop St joint, we are going to need to carry out testing at the completion of Lindsay slicing the next 2 cabinets. There was issues in the Widdop St joint with how the cable was originally spliced, and the tubes had been splice from inner wrap to outer wrap, but not all of them. BCC have matched the wraps 1 to 1 now, but we think that there may still be issued further upstream in the tunnel. The testing we will undertake will identify this. I will create a spreadsheet for the required testing, and Lindsay can price it up.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per:

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Monday, 6 August 2018 10:30 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: RE: East West Arterial Modification

Hi Col,

Lindsay completed the works as below last night so just wanted to know what P/O to use and where to shoot the invoice?



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

www.webbys.net.au

Unit 6/37 Nort

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From: Tony | Webbys Pty Ltd
Sent: Tuesday, 31 July 2018 10:27 AM
To: 'Colin W Otto' <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification
Importance: High

Hi Col,

Pricing below for item use Sch.4 Part 4 s.7(1)(b) Commercial after we have had a look over them.

Scope of work:

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$3550.00 ex GST



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

Unit 6/37 Nort

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 30 July 2018 12:45 PM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: East West Arterial Modification

Lindsay,
Can you please provide a price to complete Scope of Work Activity Items 2, 3 and 4 on the attached plans? Please price each Activity Item individually. Please submit the price through Webby's for engagement under the current SOA.

While we are out on Wednesday to do the bare fibre core test, I will take you to each cabinet to take you through the work required. We require Item 2 to be completed on Sunday night. RoadTek will provide the traffic control. Item 3 and 4 do not require traffic control to complete, and we will discuss when these can be completed.

Albert,
Can you please confirm start time to Lindsay for Sunday night? To carry out the work, the slow lane on East West Arterial will be required to be closed so the fibre splicing van can set up on the shoulder and complete the joint in the barrier void. Can you please make arrangements to engage the traffic control and coordinate with Lindsay?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [0730665638](tel:0730665638)
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W: www.tmr.qld.gov.au

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 13 August 2018 10:51 AM
To: Colin W Otto
Cc: Albert D Martin; Osman Sivac
Subject: RE: East West Arterial Modification
Attachments: East West Vary.xls

Importance: High

Hi Col,

Extra works pricing is attached, let me know if you need anything further or if you would like us to proceed.



Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
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Program Delivery & Operations | Department of Transport and Main Roads

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Tony Webb
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Office: 3266 30
Mobile: 0409 7
Email: tony@webbys.net.au

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Importance: High

Hi Col,

Pricing below for item Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial after we have had a look over them.

Scope of work:

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$3550.00 ex GST



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 30 July 2018 12:45 PM
To: Lindsay Harbour <lindsay@ifspty.com.au>

Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: East West Arterial Modification

Lindsay,

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Col Otto

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Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 6 August 2018 10:50 AM
To: Albert D Martin; Colin W Otto
Cc: Osman Sivac; Dwayne A Boyton
Subject: RE: East West Arterial Modification

Importance: High

No problem Albert, I have you guys setup separately now so we should not have any further issues and you will receive a copy of the invoice just as a courtesy, the main invoice goes to roadtekbrisbanecosting@tmr.qld.gov.au as requested.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

Released under RTI - DTMR

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Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Dwayne A Boyton <Dwayne.A.Boyton@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification

Hi Tony

Due to the quickness of the quote and the order only being raised Friday
Please use 7010263
Please send invoice to RoadTek costing and we will pay straight away
thanks

kind regards,

Albert Martin

Project Manager | Brisbane Operations

RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Monday, 6 August 2018 10:30 AM

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Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

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Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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Sent: Tuesday, 31 July 2018 10:27 AM
To: 'Colin W Otto' <Colin.W.Otto@tmr.qld.gov.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification
Importance: High

Hi Col,

Pricing below for item Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial after we have had a look over them.

Scope of work:

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$3550.00 ex GST



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Monday, 30 July 2018 12:45 PM
To: Lindsay Harbour <lindsay@ifspty.com.au>
Cc: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman

Sivac <Osman.Z.Sivac@tmr.qld.gov.au>
Subject: East West Arterial Modification

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Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street| Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.6 Per](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 6 August 2018 10:50 AM
To: Albert D Martin; Colin W Otto
Cc: Osman Sivac; Dwayne A Boyton
Subject: RE: East West Arterial Modification

Importance: High

No problem Albert, I have you guys setup separately now so we should not have any further issues and you will receive a copy of the invoice just as a courtesy, the main invoice goes to roadtekbrisbanecosting@tmr.qld.gov.au as requested.



www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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From: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Sent: Monday, 6 August 2018 10:45 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>; Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Cc: Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>; Dwayne A Boyton <Dwayne.A.Boyton@tmr.qld.gov.au>
Subject: RE: East West Arterial Modification

Hi Tony

Due to the quickness of the quote and the order only being raised Friday
Please use 7010263
Please send invoice to RoadTek costing and we will pay straight away
thanks

kind regards,

Albert Martin

Project Manager | Brisbane Operations

RoadTek South | Infrastructure Management & Delivery | Department of Transport and Main Roads

10 Oregon Street Hemmant QLD 4174

P: (07) 30664486 | M: [4 Part 4 s.6 Per](#)

E: albert.d.martin@tmr.qld.gov.au

W: www.tmr.qld.gov.au



From: Tony | Webbys Pty Ltd [<mailto:tony@webbys.net.au>]

Sent: Monday, 6 August 2018 10:30 AM

To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>

Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>; Osman Sivac <Osman.Z.Sivac@tmr.qld.gov.au>

Subject: RE: East West Arterial Modification

Hi Col,

Lindsay completed the works as below last night so just wanted to know what P/O to use and where to shoot the invoice?



Tony Webb
Director

Office: 3266 30

Mobile: 0409 7

Email: tony@w

Unit 6/37 Nort

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Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Total \$3550.00 ex GST



Tony Webb
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Office: 3266 30
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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Monday, 6 August 2018 10:30 AM
To: Colin W Otto
Cc: Albert D Martin; Osman Sivac
Subject: RE: East West Arterial Modification

Hi Col,

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WEBBY'S
The Cabling Specialists
Pty Ltd

www.webbys.net.au

Tony Webb
Director

Office: 3266 30
Mobile: 0409 7
Email: tony@w

Unit 6/37 Nort

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Total \$3550.00 ex GST



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Floor 11 | 313 Adelaide Street| Brisbane Qld 4000

P: (07) 30665638

M: [Part 4 s.6 Per](#)

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

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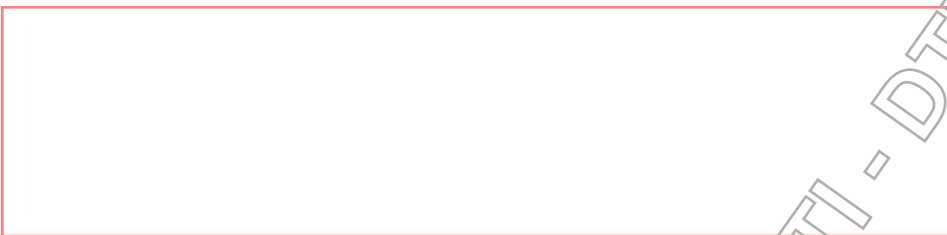
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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Wednesday, 18 July 2018 6:56 AM
To: Colin W Otto
Cc: Albert D Martin; Matt Dawson
Subject: RE: Vermin removal from conduit

Importance: High

Hi Col,

Generally the rodder tends to chase anything that is in the conduit out during the process but we are more than happy to pull one of these through, we call the porcupines. I'll check with Matt but I am pretty sure we already have some at our depot,



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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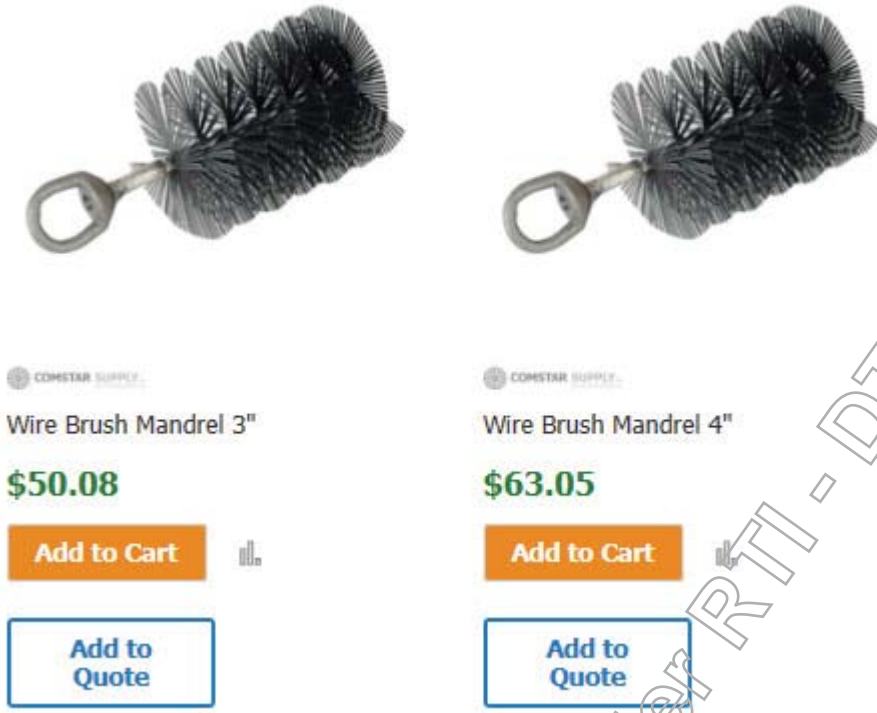
From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Wednesday, 18 July 2018 6:51 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Cc: Albert D Martin <Albert.D.Martin@tmr.qld.gov.au>
Subject: Vermin removal from conduit

Tony,

When we are rodding the conduits for the cable replacement on Western Freeway, I want to be sure that there are no rats left in the conduits. Do you think the initial rod is enough to chase out the rat, or do we need to pull a brush through the conduit as well? With the one below, it is a wire brush, and there are electrical cables in the conduit, so

would need to consider the potential to damage the cable. Whatever we pull through just needs to cover the most cross sectional area of the conduit so the rat exits.

Your thoughts?



Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

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Released under RTI - DTMR

Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 17 July 2018 5:02 PM
To: Colin W Otto; Albert D Martin
Subject: Western Freeway fibre repair

Importance: High

Gents,

I have pricing together and ready to go with this one, once you guys decide what components you'd like us to supply I'll shoot it over.



Tony Webb
Director

Office: 3266 3000
Mobile: 0409 700000
Email: tony@webbys.net.au

Unit 6/37 North

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Colin W Otto

From: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Sent: Tuesday, 17 July 2018 9:52 AM
To: Colin W Otto
Subject: RE: Scanned Document

Hi Col,

No problem mate I'll work on the quote ASAP and I believe Lindsay has spoken to you and is ready to go as soon as you need us. Please let me know if you have any issues contacting him etc and I'll sort it for you.

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-----Original Message-----

From: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Sent: Tuesday, 17 July 2018 7:20 AM
To: Tony | Webbys Pty Ltd <tony@webbys.net.au>
Subject: FW: Scanned Document

Tony,

Could you please put together indicative pricing to haul TMR supplied 48 core GRP fibre between CS313 and CS314. The path is shown on the attached plans. The splicing requirement is also shown, and I have highlighted the bi-directional OTDR requirement in green as well.

I will let you know later today whether we have access to the cable.

As a side issue, I now have another fault on Western Freeway, unrelated to this original fault. If I need a splicer urgently, are you able to supply someone? We will supply any necessary Traffic Control.

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office Program Delivery & Operations
| Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M: 4 Part 4 s.6 Pers

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

-----Original Message-----

From: AD10-MP-FX-APVI-CC471 [mailto:AD10-MP-FX-APVI-C4471@tmr.qld.gov.au]
Sent: Tuesday, 17 July 2018 7:05 AM
To: Colin W Otto <Colin.W.Otto@tmr.qld.gov.au>
Subject: Scanned Document

Number of Images: 5
Attachment File Type: PDF

Device Name: AD10-MP-FX-APVI-CC471
Device Location:

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Released under
GOVERNMENT
INFORMATION
ACT

Colin W Otto

From: Colin W Otto
Sent: Monday, 30 July 2018 12:45 PM
To: Lindsay Harbour
Cc: Webbys Pty Ltd; Albert D Martin; Osman Sivac
Subject: East West Arterial Modification
Attachments: Visio-EWA Network V4 IFC.pdf

Lindsay,

Can you please provide a price to complete Scope of Work Activity Items 2, 3 and 4 on the attached plans? Please price each Activity Item individually. Please submit the price through Webby's for engagement under the current SOA.

While we are out on Wednesday to do the bare fibre core test, I will take you to each cabinet to take you through the work required. We require Item 2 to be completed on Sunday night. RoadTek will provide the traffic control. Item 3 and 4 do not require traffic control to complete, and we will discuss when these can be completed.

Albert,

Can you please confirm start time to Lindsay for Sunday night? To carry out the work, the slow lane on East West Arterial will be required to be closed so the fibre splicing van can set up on the shoulder and complete the joint in the barrier void. Can you please make arrangements to engage the traffic control and coordinate with Lindsay?

Kind regards,

Col Otto

Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 11 | 313 Adelaide Street | Brisbane Qld 4000

P: (07) 30665638

M4 Part 4 s.6 Per

E: colin.w.otto@tmr.qld.gov.au

W: www.tmr.qld.gov.au

Joins Drawing No. 16



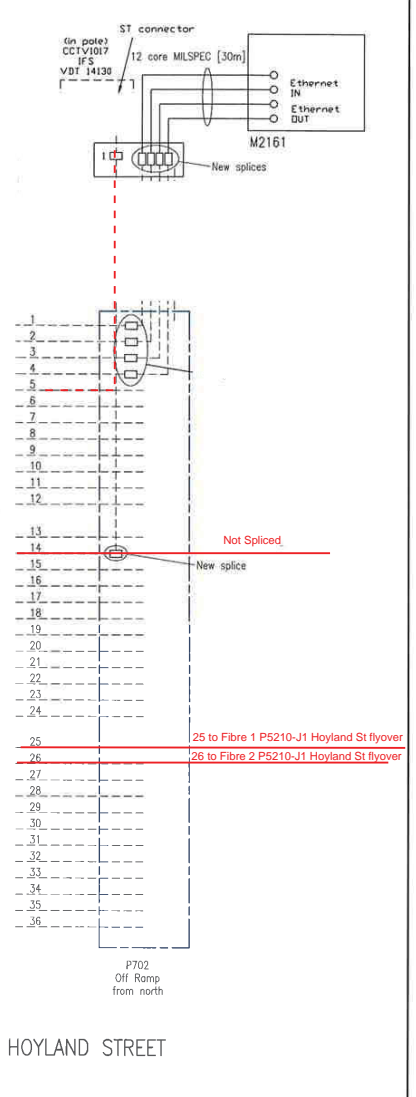
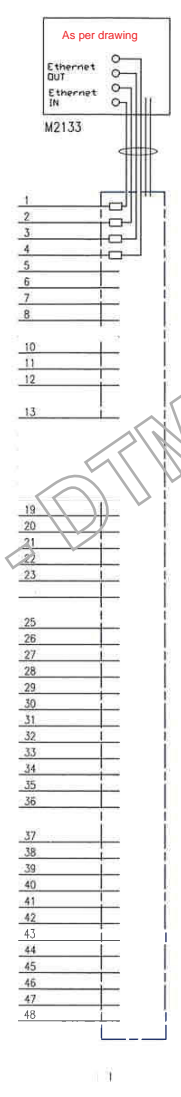
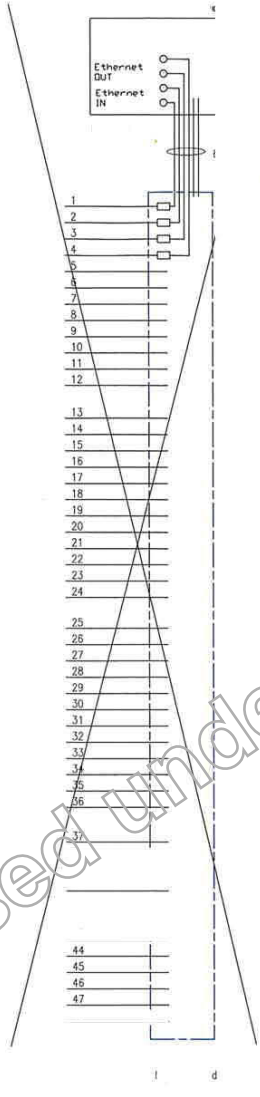
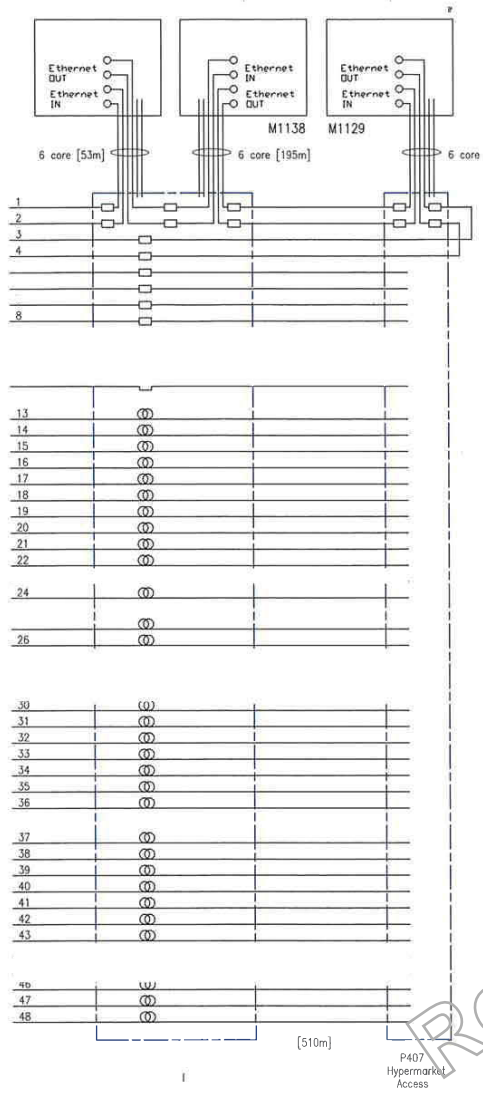
Joins below

Joins above



Release under RTI - DTPR





Released under RTI - DTMR

Microfiled	

Dimensions in metres except where shown otherwise.

Logos for the Government of Western Australia and the Department of Transport, Water and Energy.

CONTINUED ON DRAWING No 333337

1 I.D. CLASS 6 CONDUIT

6400

6450

6500

6550

6600

6650

SUB-DUCT, 28mm I.D. CLASS 6 POLYETHYLENE CONDUIT

1x100Ø HD PVC WHITE
1x100Ø HD PVC ORANGE

SUB-DUCT, 28mm I.D. CLASS 6 POLYETHYLENE CONDUIT

Proposed cabinet CS313, loop housed in type No7 comms pit, 161m to 164.7m

PROPOSED COUNTER & CCTV CABINET CS 313

EXISTING LIGHTING DUCT

AERIAL

CUT EXISTING BARRIER & EXCAVATE SURFACE TO TIE IN BARRIER DUCTING INTO NEW ROAD CROSSING

NEW BARRIER VOID & COVER PLATE TO MRS 11.14 12/99 SEE MRS DWG 14.61

2 x 48f loops for road crossing, 1587m to 1591m & 1670m to 1668m

SUB-DUCT, 28mm I.D. CLASS 6 FIBRE OPTIC ROUTE 48f, Cable 3

Notes

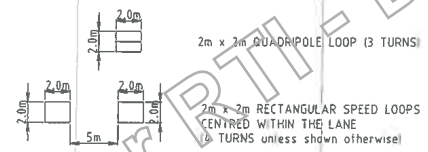
- All new pits & ducts to be supplied & installed as per MRS 11.91 12/99
- The proposed fibre route is indicated with ---
- For clarification of route & plan locations contact Main Road, Metropolitan District Telephone (0418) 716 873
- Please note these plans have been digitized from aerial photographs. Locations are approximate only, for further definition site survey is required.
- Location of all services is the responsibility of the site contractor and shall be ascertained prior to work commencing.
- The location of all CCTV footings, cabinets and Vehicle detector loops are to be pegged by the contractor and approved by the superintendent prior to installation. The contractor shall confirm that the approved location does not conflict with services. The Superintendent requires 24 Hours notice prior to approving each location.

LEGEND

- EXISTING PIT (PROVEN IN FIELD)
- NEW PIT - TO BE INSTALLED (SIZE AS INDICATED)
- * FIBRE CABLE ROUTE
- EXISTING 1x100Ø 150009 PVC WHITE COMMS DUCT
- EXISTING 1x100Ø HD CLASS 12 PVC ORANGE POWER DUCT
- EXISTING POWER DUCT (SIZE AS SHOWN)
- EXISTING COMMS DUCT (SIZE AS SHOWN)
- ▽ EXISTING HELP PHONE
- ▭ EXISTING SWITCHBOARD
- ⊗ CCTV COMMS CABINET
- 📷 CCTV CAMERA
- number □ NEW VEHICLE DETECTOR LOOP C/W LOOP FAIL DIRECTION
- EXISTING VEHICLE DETECTOR LOOP

NEW DETECTOR LOOP NOTES

ALL DETECTOR LOOPS TO BE INSTALLED IN ACCORDANCE WITH MRS PLAN No. 14.24



Cable route: --- (ITS) --- (ITS) ---

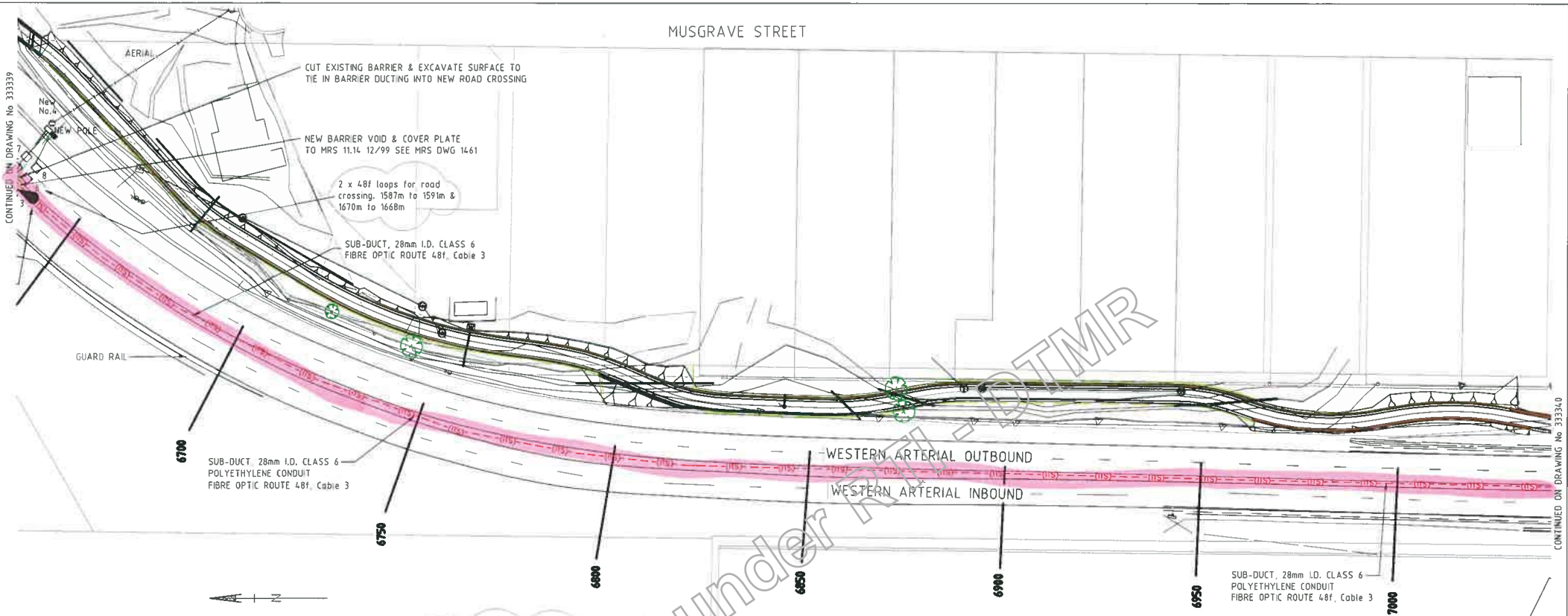
MUSGRAVE STREET

CONTINUED ON DRAWING No 333339

RoadTek Consulting
Queensland Government
33 Halfway St. North
Ph 07 3632 2800 Fax 07 3268 1978 Eagle Form 4009

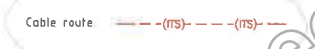
Revisions	Drawn	Checked	Certified	Issue Date	Microfiled	Auxiliary Dwg Nos	For Scheme documentation Print on A3 Paper	Full Size A1	WESTERN FREEWAY ITS TRAFFIC MANAGEMENT OPTICAL FIBRE CABLE ROUTE SITE LAYOUT				Drawn	Designed	Certified	Approved	CONTRACT No	Job No	Draw No	
D AS CONSTRUCTED (19/2/04)	RGS			27/6/05									Drawn	Designed	Certified	Approved	MR130053/01	0140/U18B/069	333339	
C DESIGN UPDATED	R.BASS	MEH	Noel Peters	21/2/03				Checked					Checked	G. COQUERAND	R. BLINCO					
B AS CONSTRUCTED (30/9/02)	A.G.	MJS		18/11/02				Checked												
A Original Issue																				

MUSGRAVE STREET



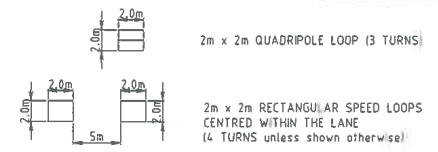
LEGEND

- EXISTING PIT (PROVEN IN FIELD)
- NEW PIT - TO BE INSTALLED (SIZE AS NOMINATED)
- FIBRE CABLE ROUTE
- EXISTING 1x1000P PVC WHITE COMBS DUCT
- EXISTING 1x1000P HD CLASS 12 PVC ORANGE POWER DUCT
- EXISTING POWER DUCT (SIZE AS SHOWN)
- EXISTING COMBS DUCT (SIZE AS SHOWN)
- EXISTING HELP PHONE
- EXISTING SWITCHBOARD
- CCTV COMBS CABINET
- CCTV CAMERA
- NEW VEHICLE DETECTOR LOOP
- C/W LOOP TAKE DIRECTION
- EXISTING VEHICLE DETECTOR LOOP



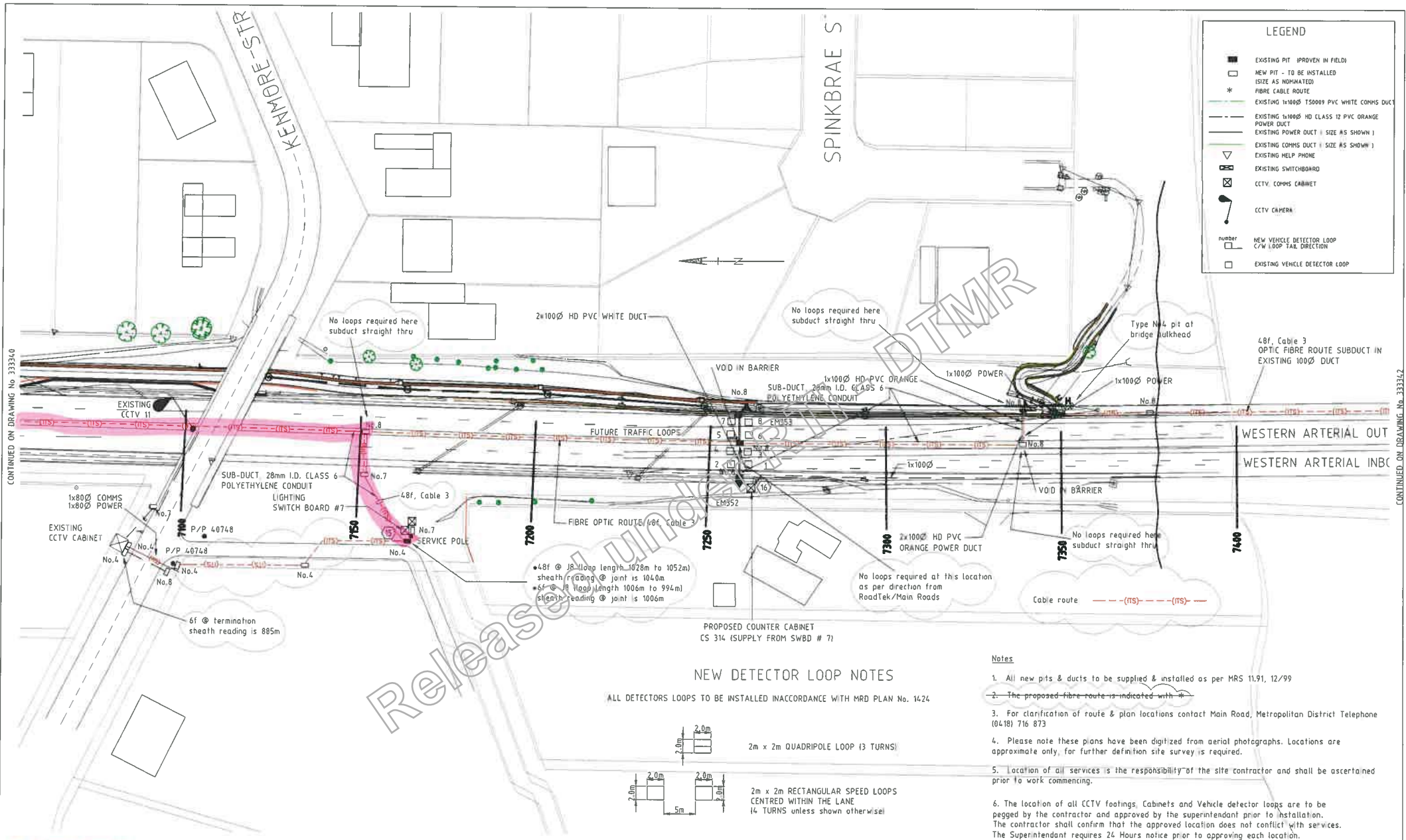
- Notes**
- All new pits & ducts to be supplied & installed as per MRS 11.91, 12/99
 - The proposed fibre route is indicated with
 - For clarification of route & plan locations contact Main Road, Metropolitan District Telephone (0418) 716 873
 - Please note these plans have been digitized from aerial photographs. Locations are approximate only, for further definition site survey is required.
 - Location of all services is the responsibility of the site contractor and shall be ascertained prior to work commencing.
 - The location of all CCTV footings, Cabinets and Vehicle detector loops are to be pegged by the contractor and approved by the superintendent prior to installation. The contractor shall confirm that the approved location does not conflict with services. The Superintendent requires 24 Hours notice prior to approving each location.

NEW DETECTOR LOOP NOTES
ALL DETECTOR LOOPS TO BE INSTALLED IN ACCORDANCE WITH MRD PLAN No. 1424



RoadTek Consulting
Queensland Government
Main Roads
Ph 07 3632 2000 Fax 07 3268 1978 Eagle Farm 4009

Revisions	Drawn	Checked	Certified	Issue Date	Intified	Auxiliary Dwg Nos	For Scheme documentation	Full Size	WESTERN FREEWAY ITS TRAFFIC MANAGEMENT OPTICAL FIBRE CABLE ROUTE SITE LAYOUT				Queensland Government Department of Main Roads		Drawing No
D AS CONSTRUCTED (19/2/04)	RGS			27/6/05			Print on A3 Paper	A1					CONTRACT No MR130053/01		No 22 of 40 Dwg
C DESIGN UPDATED	R.BASS	MEH	Noel Peters	21/2/03					Scales M 0 5 10 15 20 25 SCALE 1:500				Job No 014.0/U18B/069	Dwg No. 33334.0	
B AS CONSTRUCTED (30/9/02)	A.G.	MJS		18/11/02					Drawn Checked R.H.W.	Designed Checked R.D.A.	Certified Checked G. COUQUERAND	Approved Checked R. BLINCO			
A Original Issue									RPE						



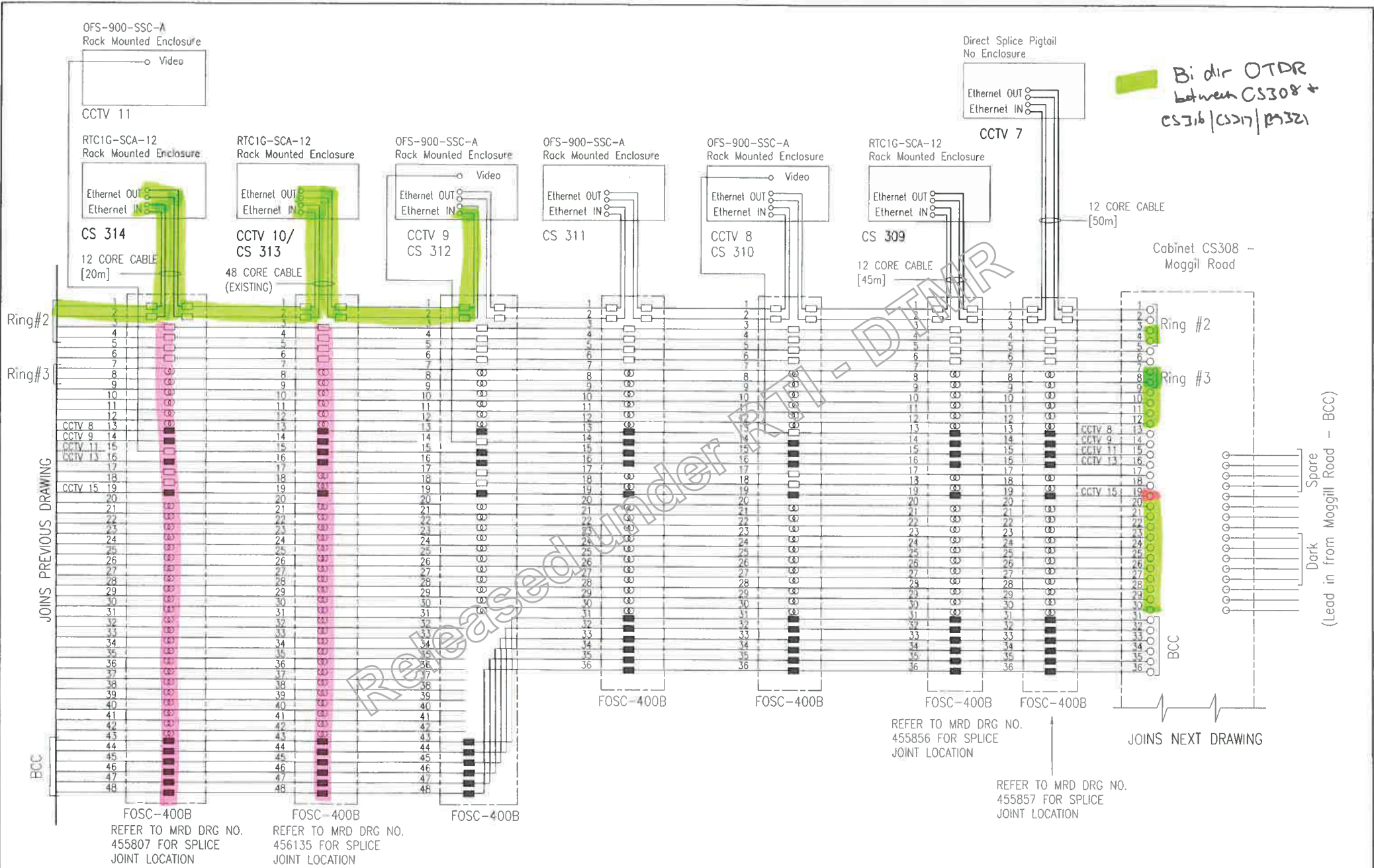
CONTINUED ON DRAWING No. 333340

CONTINUED ON DRAWING No. 333342

Release Under DTMR

RoadTek Consulting
 Queensland Government
 Main Roads
 Ph 07 3632 2000 Fax 07 3268 1978 Eagle Farm 4009

Revisions	Drawn	Checked	Certified	Issue Date	Microfised	Auxiliary Dwg Nos	For Scheme documentation Print on A3 Paper	Full Size A1	WESTERN FREEWAY ITS TRAFFIC MANAGEMENT OPTICAL FIBRE CABLE ROUTE SITE LAYOUT						Drawing No
D AS CONSTRUCTED (19/2/04)	RGS			27/6/05					Drawn RMW Checked MJA	Designed RDA Checked MJA	Certified G. COUQUERAND	Approved R. BLINCO	CONTRACT No MR130053/01	Job No 0140/U18B/069	Dwg No 333341
C DESIGN UPDATED	R.BASS	MEH	Noel Peters	21/2/03											
B AS CONSTRUCTED (30/9/02)	A.G.	MJS		18/11/02											
A Original Issue															

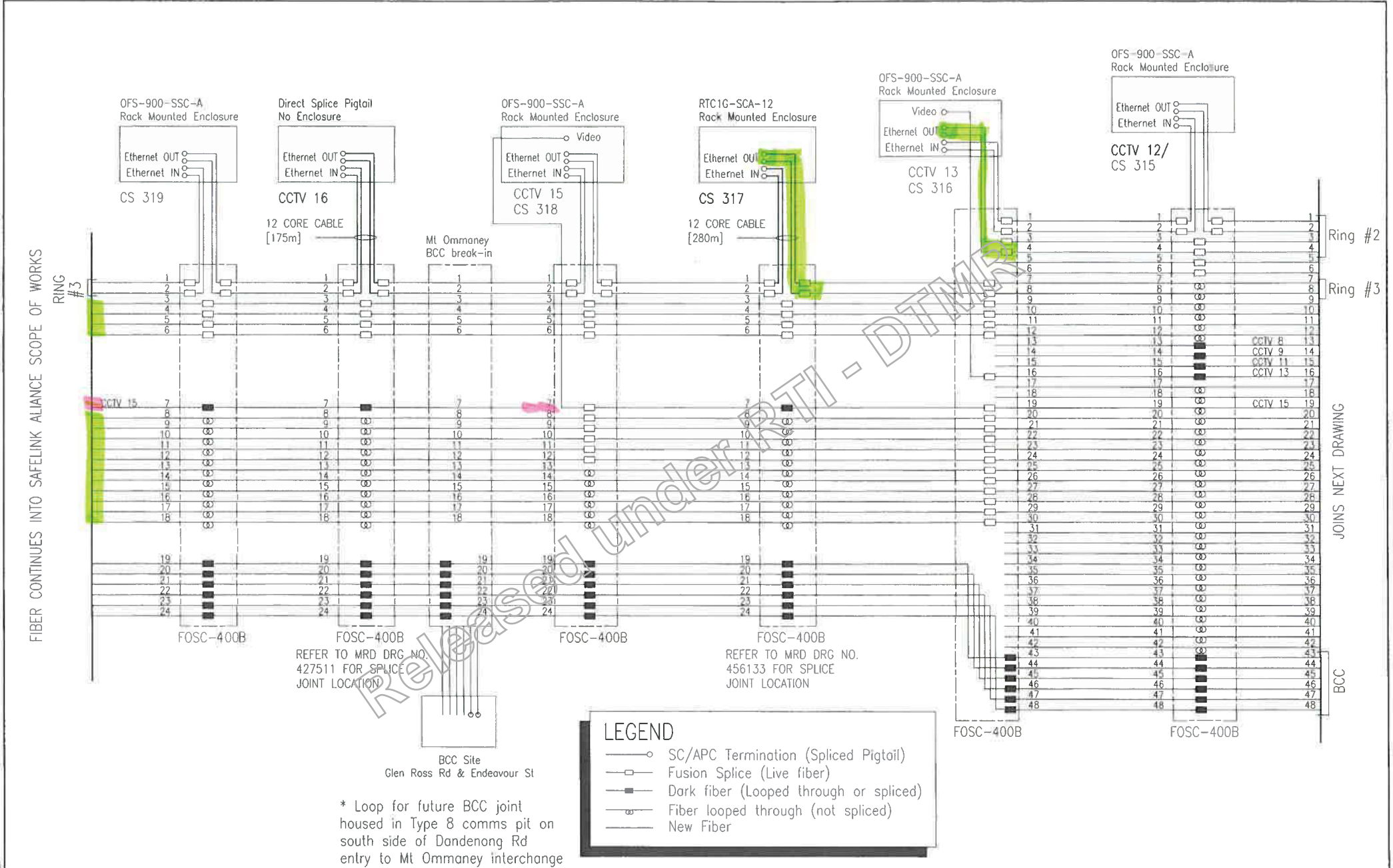


Bi dir OTDR
between CS308 +
CS316 / CS317 / CS321

REFER TO MRD DRG NO.
455856 FOR SPLICE
JOINT LOCATION

REFER TO MRD DRG NO.
455857 FOR SPLICE
JOINT LOCATION

Revisions		Certified	Date	Microfilmed	Associated Job Nos	Survey Data		Scales		BRISBANE CITY WESTERN ARTERIAL ROAD SINNAMON ROAD TO MOGGILL RD				SPlicing DIAGRAM SHEET 2 OF 3				Queensland Government Department of Main Roads		
Original Issue A1						Horiz. Datum	Height Datum			Reference Points				Drawing	Design	Design Review	Engineering Certification	For scheme approval status	Job No.	Contract No.
A										Preceding RP: U18A/1, Dist. to start of job (km): 1.94, From start to end of job: 11.09, From end to following RP: 1.61, Following RP: U18B/3A				Checked: J. Madigan	Design: J. Young, Verified: L. Madigan	Date: 16/11	16/11	201/U18B/1	472850	
						Dimensions shown in metres, except where shown otherwise												2 of 3		



Revisions	Certified	Date	Microfiled	Associated Job Nos	Survey Data	Scales	BRISBANE CITY WESTERN ARTERIAL ROAD SUMNERS ROAD OVERPASS TO SINNAMON ROAD		SPlicing DIAGRAM SHEET 1 OF 3			
											Job No.	201/U18B/1
											Contract No.	472849
											Drawing No.	1 of 3
											Series Number	MRR Working (06/08)

Last Modified: Sep 16, 2009 11:30am

Memorandum

Our ref
Your ref
Date 15 April 2019

To Albert Martin
RoadTek

Subject Beaudesert Road Fibre Optic Works

Albert,
Please provide a price for the following works:-

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

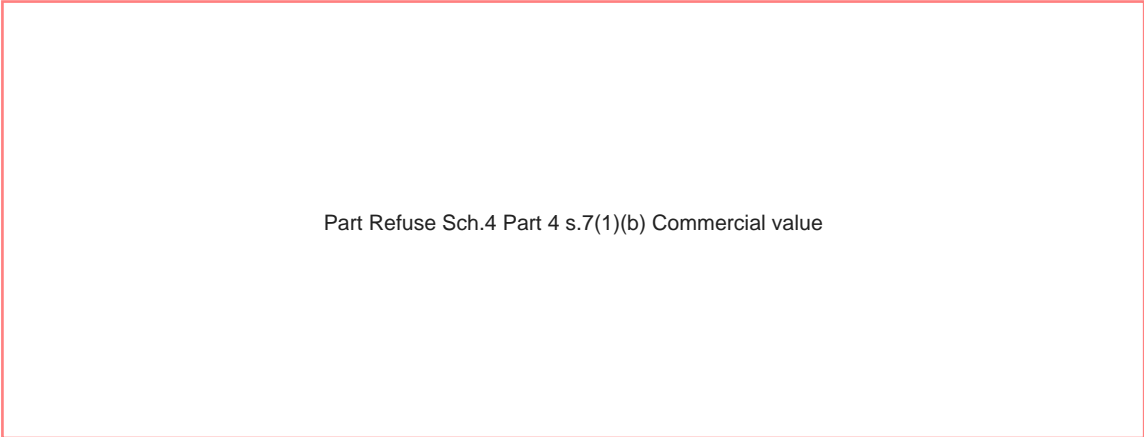
2. M1626 Beaudesert and Compton

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

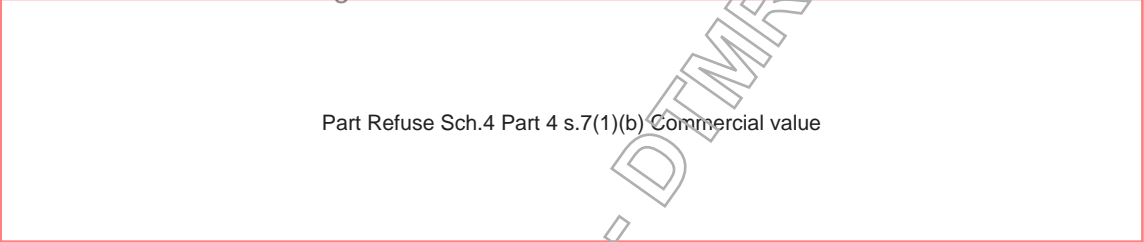
Department of Transport and Main Roads

Enquiries
Telephone +61 7
Facsimile +61 7

3. CCTV1208



4. M1660 Beaudesert and Highlands



Note – Fibre Optic Testing is out of scope for this project. Testing will be undertaken when fibre optic network is complete. Fibre contractor shall warrant for 12 months until testing is complete, and rectify defects identified at time of testing.

Equipment List

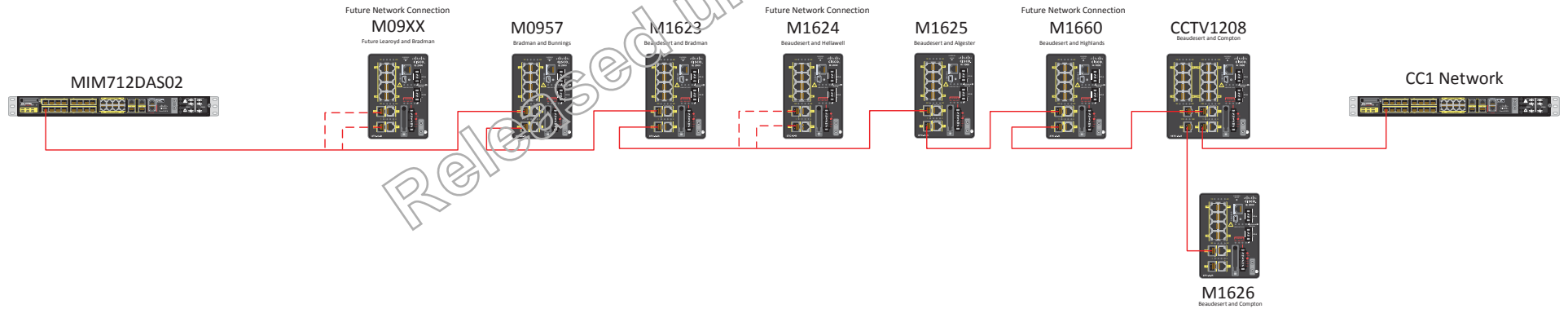
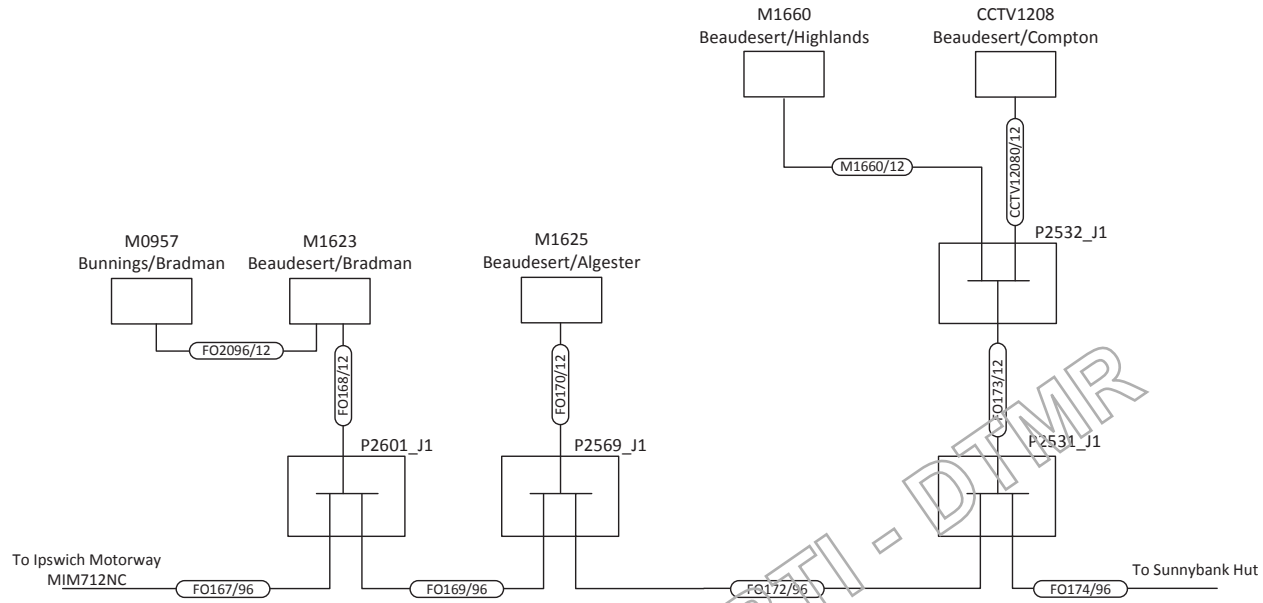
M1625	Qty	Unit	Supplier	Installer
Fibre Joint (GC02-BC6-NV)	1	Each	Webby's	Webby's
12 Core Milspec Fibre	10	m	Webby's	Webby's
FDE-12-SCA-1-S	1	Each	Webby's	Webby's
1m SCA-SCA Duplex Patch Lead	2	Each	RoadTek	RoadTek
IE2000-4TS-G-B	1	Each	TMR	RoadTek
PWR-IE50-AC=	1	Each	TMR	RoadTek
GLC-LH-SMD	2	Each	TMR	RoadTek

CCTV1208	Qty	Unit	Supplier	Installer
12 Core Milspec Fibre	20	m	Webby's	Webby's
FDE-12-SCA-1-S	1	Each	Webby's	Webby's
IE2000-16TC-G-X	1	Each	TMR	RoadTek
PWR-IE50-AC=	1		TMR	RoadTek
1m SCA-SCA Duplex Patch Lead	2	Each	RoadTek	RoadTek
GLC-LH-SMD	2	Each	TMR	RoadTek
GLC-FE-T-I	1	Each	TMR	RoadTek
1m CAT5E Patch Cable	1	Each	RoadTek	RoadTek

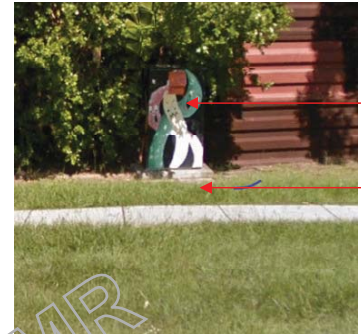
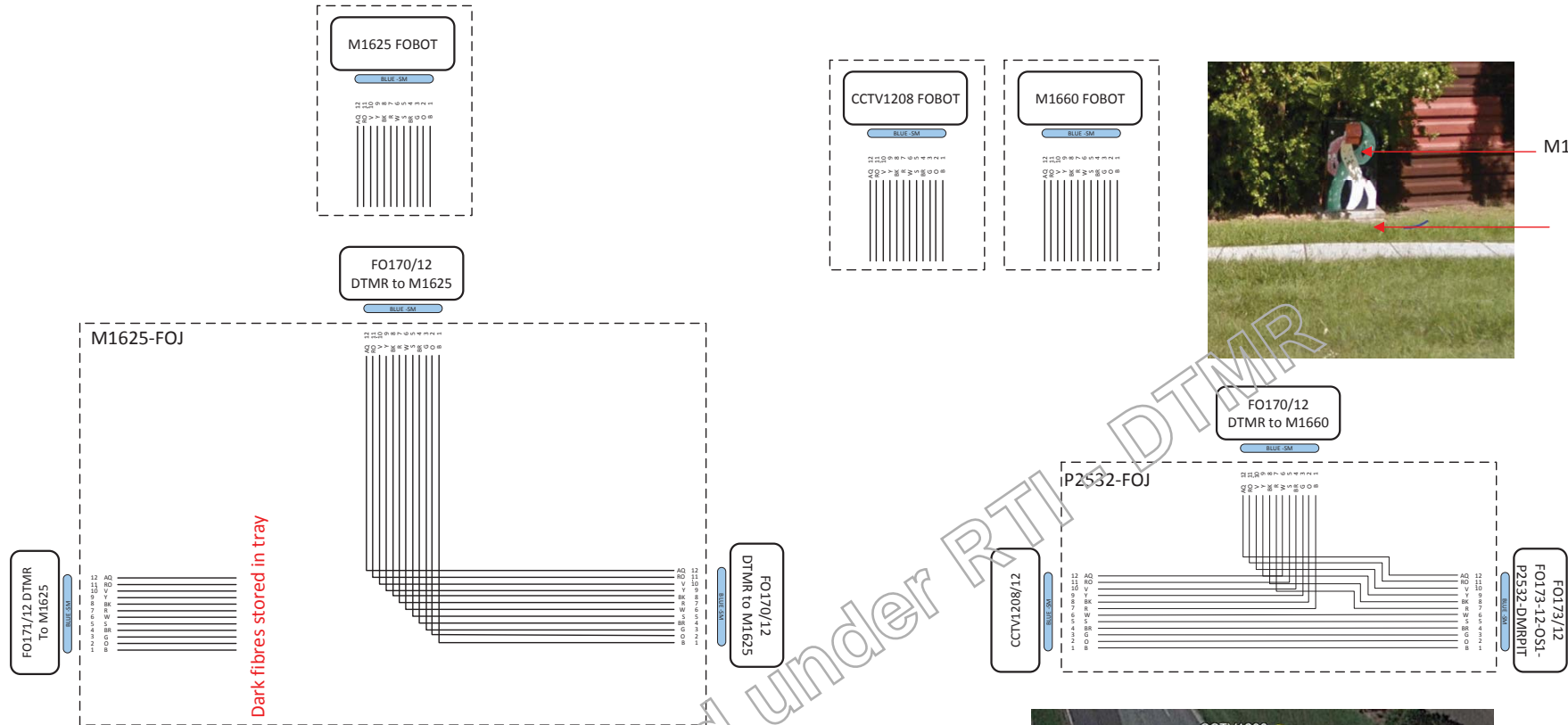
M1626	Qty	Unit	Supplier	Installer
IE2000-4TS-G-B	1	Each	TMR	RoadTek
PWR-IE50-AC=	1	Each	TMR	RoadTek
GLC-FE-T-I	1	Each	TMR	RoadTek
1m CAT5E Patch Cable	1	Each	RoadTek	RoadTek

M1660	Qty	Unit	Supplier	Installer
FDE-12-SCA-1-S	1	Each	Webby's	Webby's
IE2000-16TC-G-X	1	Each	TMR	RoadTek
PWR-IE50-AC=	1		TMR	RoadTek
1m SCA-SCA Duplex Patch Lead	2	Each	RoadTek	RoadTek
GLC-LH-SMD	2	Each	TMR	RoadTek

Released under RTI - DTMR



Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads				Beaudesert Road Network				Site No.	 Department of Transport & Main Roads	
						WGS84				Metropolitan District									Job No.	
C		Revised IFC	CO	7/08/2018	Auxiliary Drawing #:														Contract No.	
B		Issued for Construction	CO	30/07/2018															Drawing No.	
A		Original Issue A3																	Series No. 1 of 1	
Prevailing RP Dist. To start of job (km) From start to end of job From end to Following RP Following RP		Drawn by Colin Otto		Drawing Checked		Design Verified		Design Review		Engineering Certification (EPEC) C Otto 12762		Reference Points		Dimensions shown in millimetres except where shown		RTI-549 IMD - PDO - Metropolitan region - Colin Otto - attachments.pdf - Page Number: 13 of 239		A		



M1660 Traffic Signal Controller
Existing Fibre Pit



M1626 Traffic Signal Controller
Existing Fibre Pit



CCTV1208
P2532-FOJ
Beaudesert Rd & Compton Rd

Revision				Certified	Date	Microfilmed	Associated Job #:	Survey Data			Not to Scale		Transport & Main Roads				Beaudesert Road Network				Site No.	Queensland Government	
								WGS84					Metropolitan District									Department of Transport & Main Roads	
C Revised IFC				CO	7/09/2018		Auxiliary Drawing #:					Reference Points				Drawn by				Engineering Certification (RPEQ)		A	
B Issued for Construction				CO	30/07/2018		Classification			Security-in-Confidence		Preceding RP				Colin Otto				C Otto 12762			
A Original Issue A3							Dimensions shown in millimetres except where shown otherwise					From start to end of job				10/03/2017				1 of 1			

P2601_J1
 Bradman St & Beaudesert Rd
 Acacia Ridge

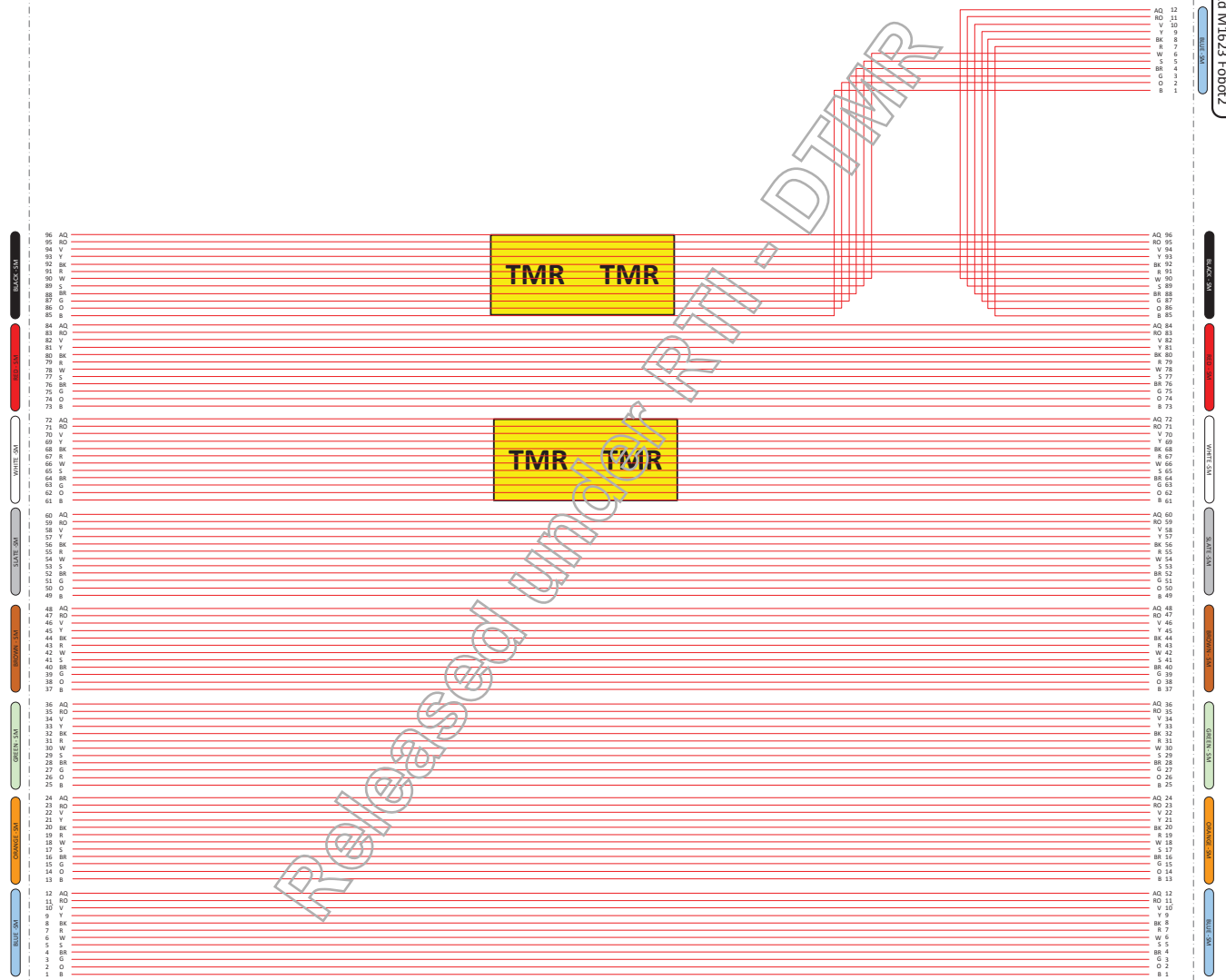
Information Only
 Not part of scope

Note: M0957 Bradman St
 Bunnings Entry has a 12core-
 FO2096/12 direct to M1623

FO168/12
 Bradman /Beaudesert
 Rd M1623 Fobot2

FO169-96 P2569_J1 Beaudesert & Jackson Rd


FO167-96 to P2627_J1 Paradise & Learoyd Rd



REV	DATE	DESCRIPTION	DRAWN
A	27-2-18	Initial Draft from TNS audit 22-2-18	PJ
B	25-3-19	Draft proposed for TMR M1623 relocation	PJ

Page Name: P2601_J1 Rev B Proposed

Asset Management Branch
 Duct and Fibre Infrastructure Management 266
 George Street
 Brisbane, 4000.



PROJECT: Bligh Tanner Bunnings Bradman Street		PROJECT NO.	
TITLE: P2601_J1 Bradman Street & Beaudesert Road Acacia Ridge		DFIM #222	
DATE: 27/2/2087	DRAWN: Peter Jefferies	DRAWING NO. P2601_J1 Bradman St & Beaudesert Rd Rev A 27Feb18	REV. B
APPROVED:	SCALE: NTS	TMR.vsd	

P2569_J1
 Beaudesert Rd & Jackson Rd
 Acacia Ridge

Information Only Not part of scope

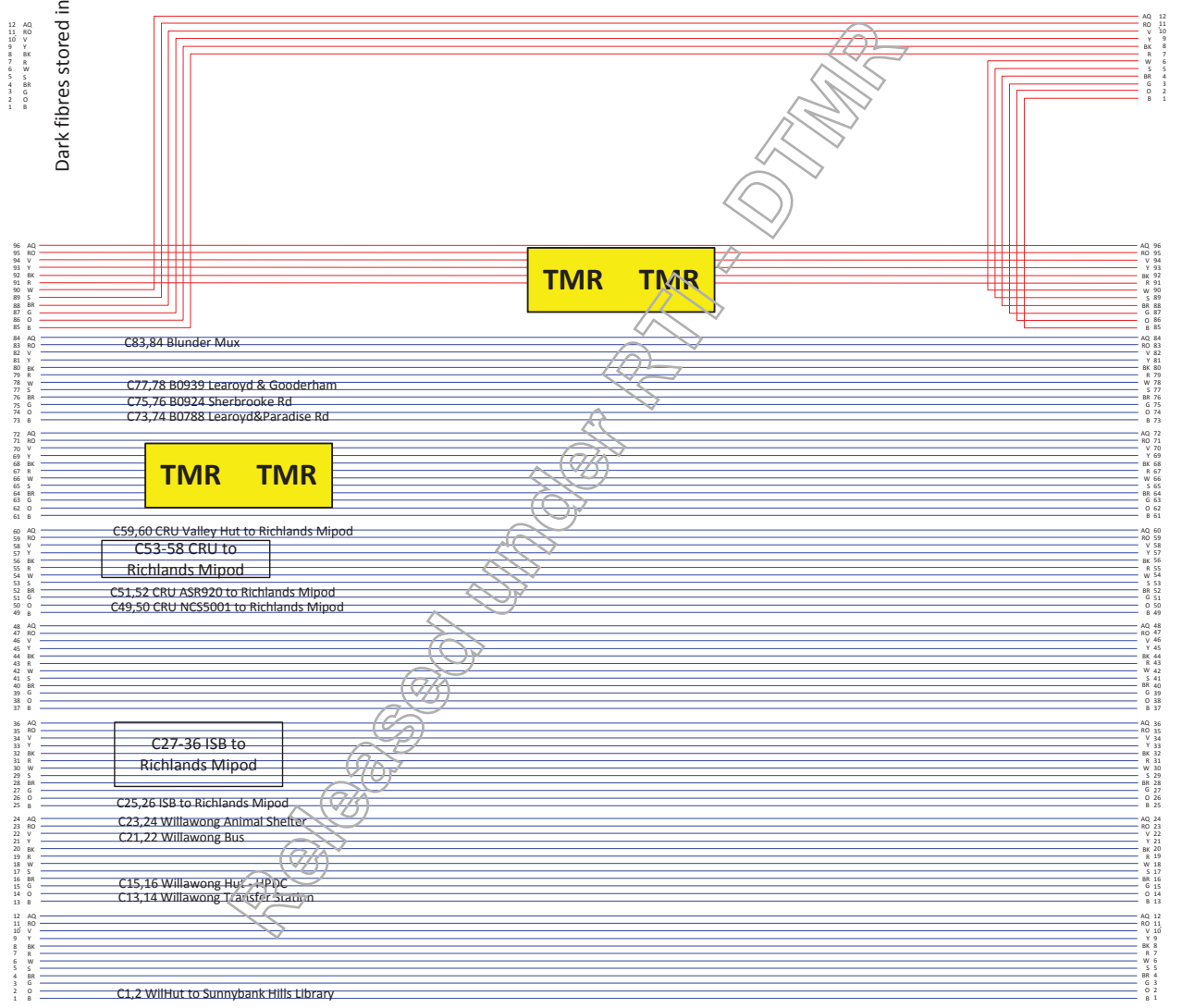
Dark fibres stored in tray

FO171/12 DTMR
 To M1625

FO170/12
 DTMR to M1625

FO169-96 to P2601_J1 Bradman & Beaudesert Rd

FO172-96 P2531_J1 Beaudesert & Compton Rd



REV	DATE	DESCRIPTION	DRAWN
A	6-3-19	As per Stowe Audit 5-2-19	PJ

Page Name: P2569_J1 Rev A 6Mar19



Asset Management Branch
 Duct and Fibre Infrastructure Management 266
 George Street
 Brisbane, 4000.

PROJECT: Bunnings Bradman Street		PROJECT NO. DFIM 222
TITLE: P2601_J1 Bradman Street & Beaudesert Road Acacia Ridge		
DATE: 23/1/2019	DRAWN: Peter Jefferies	DRAWING NO. P2569_J1 Beaudesert & Jackson Rd Rev C Otto 2019_04_02.vsd
APPROVED:	SCALE: NTS	REV. A

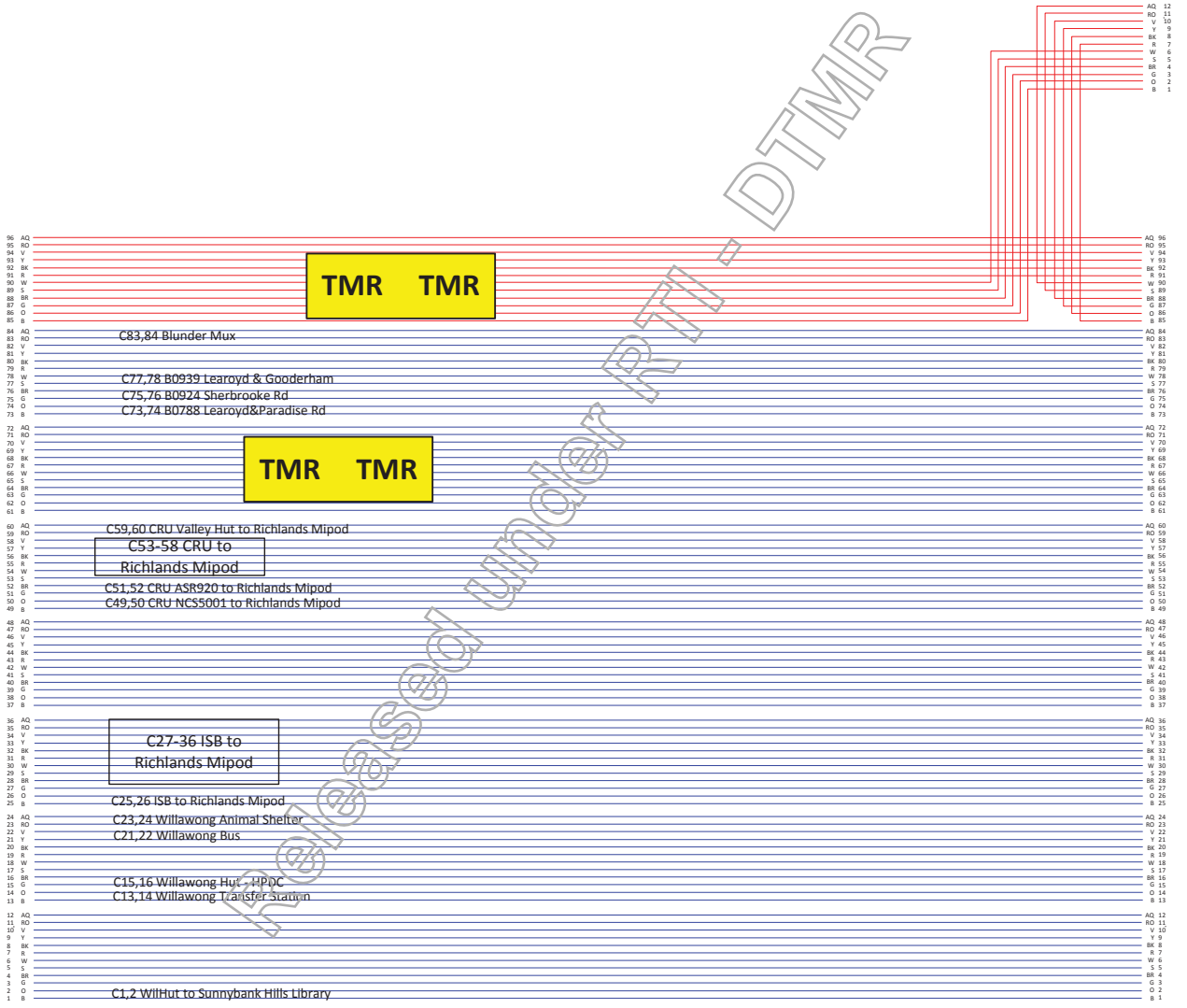
P2531_J1
 Beaudesert Rd & Compton Rd
 Sunnybank Hills

Information Only
 Not part of scope

FO173-12
 DTMR

FO174-96 P2514_J1 Calam Rd Sunnybank


FO172-96 to P2569_J1 Jackson & Beaudesert Rd



REV	DATE	DESCRIPTION	DRAWN
A	6-3-19	As per Stowe audit 5-2-19	PJ

Page Name: P2531_J1 Rev A 6Mar19

Asset Management Branch
 Duct and Fibre Infrastructure Management 266
 George Street
 Brisbane, 4000.



PROJECT: Bunnings Bradman Street		PROJECT NO. DFIM 222	
TITLE: P2531_J1 Compton Road & Beaudesert Road Acacia Ridge			
DATE: 23/1/2019	DRAWN: Peter Jefferies	DRAWING NO. P2531_J1 Beaudesert & Compton Rd Rev B C Otto 2019 01 23	REV. A
APPROVED:	SCALE: NTS	2019 01 23	



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

www.webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

Date: 23/04/2019

Quote #23042019

A.B.N. 38 106 353 735

A.C.N 106 353 735

Attention: Albert Martin - Roadtek South 0428100944

Quotation for supply of plant and labor for cable installation, termination and testing as set out below.

Location: Beaudesert Road Fibre Optic Works

Webby's is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

This offer is based on the following exclusions and conditions unless otherwise noted:

Blocked conduits or pits that require cleanout. Traffic control or permits, specific site agreements allowances or conditions. Outside normal hours of work being 6.00am to 4.00pm M-F unless otherwise noted, latent conditions, water removal, cable lengths above estimated quantities, delays by the principal, conduit, pit's or pipe damaged during the haul procedure. Rock or Shale ground.

The costs for equipment damaged or time lost due to poor conduit / pit installation or bends and or conduit direction changes shall be charged as a variation. Clear conduit locations and routes are to be supplied at the site visit or emailed prior to quote being submitted.

Should Webby's Pty Ltd staff be required to stand down in the course of their work consequent upon a construction delay, interference or obstruction we may charge the principal contractor at a rate of \$88.00 per man, per man hour to a maximum of 8 hours as well as plant and vehicle charges.

Webby's Pty Ltd terms of trade are 30 days from invoice, an order number or letter of offer will be mandatory prior to the commencement of work along with a 50% deposit for new clients.

ALL WEBBY'S PTY LTD ACCOUNTS ARE MONITORED BY ACTIVE CREDIT SERVICES

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$3730.80

Refuse Sch.4 Part 4 s.6 Personal inform

Anthony Webb

We trust that we have interpreted your requirements accurately and look forward to your reply. If you have any questions or concerns please do not hesitate to contact the estimator on the details above.



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014



Date: 25/03/2019

Quote #25032019

A.B.N. 38 106 353 735

A.C.N 106 353 735

Attention: Albert Martin - Roadtek South 0428100944

Quotation for supply of plant and labor for cable installation, termination and testing as set out below.

Location: Moggill road to Almay ITS Upgrade project

Webbys is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

This offer is based on the following exclusions and conditions unless otherwise noted:

Blocked conduits or pits that require cleanout. Traffic control or permits, specific site agreements allowances or conditions. Outside normal hours of work being 6.00am to 4.30pm M-F unless otherwise noted, latent conditions, water removal, cable lengths above estimated quantities, delays by the principal, conduit, pit's or pipe damaged during the haul procedure. Rock or Shale ground.

The costs for equipment damaged or time lost due to poor conduit pit installation or bends and or conduit direction changes shall be charged as a variation. Clear conduit locations and routes are to be supplied at the site visit or emailed prior to quote being submitted.

Should Webbys Pty Ltd staff be required to stand down in the course of their work consequent upon a construction delay, interference or obstruction we may charge the principal contractor at a rate of \$59.50 per man, per man hour to a maximum of 8 hours as well as plant and vehicle charges.

Webbys Pty Ltd terms of trade are 30 days from invoice, an order number or letter of offer will be mandatory prior to the commencement of work along with a 50% deposit for new clients.

All WEBBY'S PTY LTD ACCOUNTS ARE MONITORED BY ACTIVE CREDIT SERVICES

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$33938.00

Sch.4 Part 4 s.6 Person

Anthony Webb

*We trust that we have interpreted your requirements accurately and look forward to your reply.
If you have any questions or concerns please do not hesitate to contact the estimator on the details above.*

Gympie Road Network Upgrade

Fibre Optic Modification Scope of Works

Released under RTI - DDMR

Prepared by	Colin Otto
Title	Senior Engineer (Electrical)
Branch	PD&O
Division	Metropolitan Region
Department	Department of Transport and Main Roads
Version no.	2.0
Version date	11 July 2019
Status	Approved for Issue
DMS ref. no.	

Document control sheet

Contact for enquiries and proposed changes

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

Contact officer Colin Otto

Title Senior Engineer (Electrical)

Phone ch.4 Part 4 s.6 Person

Version history

Version no.	Date	Changed by	Nature of amendment
1.0	5/07/2019	C Otto	Issued for review
2.0	11/07/2019	C Otto	Issued for Use

Released under RTI - DTMR

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1 Introduction

Gympie Road ITS network operates on an existing fibre optic network. The network configuration currently provides no redundancy and is not compliant with the current version of MRTS245. Gympie Road is a highly utilised arterial road. Emergency Vehicle Priority (EVP) is deployed across the region and relies upon real time communications to the individual intersections, It is critical that the network provide a high level of availability to ensure the communications to individual intersections is available when needed for EVP.

A capital submission was put forward to upgrade the network to reconfigure the fibre optic, install new network switch hardware and migrate all existing network connected equipment over to the new network.

1.1 Fibre Optic Scope of Works

The following works will be undertaken by RoadTek's preferred fibre optic contractor. Fibre Modification drawings are provided in Appendix A.

1.1.1 ITS Cabinet FOBOT Upgrades

As part of the works in 2.2.1 ITS Cabinet Modifications and FOBOT Upgrades, the following sites are to include replacement of the FOBOT, terminated as per the nominated Detail.

ITS Cabinet FOBOT Upgrades				
Site ID	Description	FOBOT Part Number	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity
CS793	Gympie Arterial - Gympie Rd Off Ramp NB	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4
CS794	Gympie Arterial Linkfield Rd Off Ramp SB	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4
CS795	Gympie Arterial - Telegraph Rd	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4
CS796	Gympie Arterial - Grand St	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4
CS797	Gympie Arterial - Humrich Place	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4
CS798	Gympie Arterial - Midland St	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4
CS799	Gympie Arterial - Gravel Plant Exit	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4

1.1.2 Traffic Signal Top Hat Modifications

Upgrade the FOBOTS in the following Traffic Signal Controller Top Hats. Termination typical drawings are provided in Appendix B.

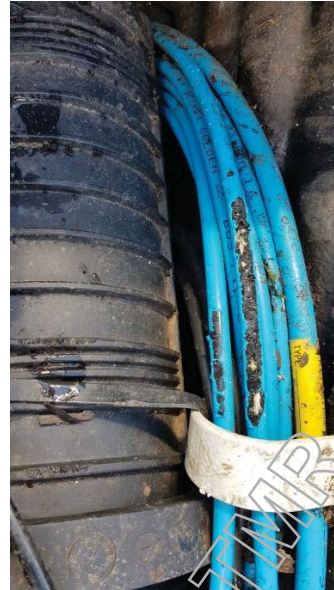
Traffic Signal Top Hat FOBOT Upgrades				
Site ID	Description	FOBOT Part Number	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity
M1108	Gympie and Strathmore/Castle	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1111	Gympie and Kitchener/Sport	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6
M1113	Gympie and Rode	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1114	Gympie and Wallace	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1116	Gympie and Hamilton	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1117	Gympie and Bouchard	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1131	Gympie and Banfield	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1118	Gympie and Murphy	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1119	Gympie and Webster	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1120	Gympie and Darwin	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1121	Gympie and Albany Creek	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1128	Gympie and Aspley Ped Xing	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1122	Gympie and Robinson	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6
M1126	Gympie and Gayford	FDE-12-SCA-1-S	Sheet 6 - Detail 3	12
M1127	Albany Creek and Maundrell/Gayford	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1138	Gayford and Hypermarket	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1129	Albany Creek and Hypermarket	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1126	Gympie and Gayford	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6
M1130	Gympie and Zillmere	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M1134	Gympie and Grahams	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6
M8054	Beams and Holy Spirit	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
CS792/GA01	Gympie and Caltex SS	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M2133	Strathpine and Bald Hills	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4
M2161	Strathpine and Hoyland	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4

1.1.3 Fibre Optic Joint Modifications

To accommodate the fibre optic network segmentation required for the new ITS network design, and CCTV camera upgrades already completed or completed as part of this works, the fibre optic joints require modification. Legacy CCTV fibre optic cores shall be returned for use to the fibre optic backbone. The following joints are to be modified as per the design drawings. Fibre Optic Joint Modification Drawings are provided in Appendix B.

Included in the table below is the provision for replacement of the damaged fibre optic joint at CCTV0212. The existing joint adjacent to CCTV0212 and the additional coil of fibre has been damaged by vermin. Prior to upgrading the FOBOT in M1126, the integrity of the cable to M1126 is to be confirmed by testing of all cores (bare fibre adaptor testing of unterminated cores) and if more than 2 of the 6 cores are damaged, the cable is to be replaced completely to M1126 and reterminated at both ends of the cable as per Sheet 6 on Drawing "M1126 FOBOT Termination" omitting the inline joint shown. If the cable integrity is intact, the contractor shall install a new joint and terminate as per drawing provided in Appendix B.

The existing Fibre Optic Joint at CS792/GA01 is damaged and is filling with water. The joint is to be replaced with a new GC02-BC06-NV and terminated as per existing.



Fibre Optic Joint Modifications

Site ID	Description	Joint Part Number	Applicable Fobot Splicing Detail	Splice Quantity
CCTV0212	Gympie and Gayford	New GC02-BC6-NV	Refer Sheet 6	6
CS792/GA01	VMS at Caltex Service Station	New GC02-BC6-NV	Refer Sheet 7	48
P74	M1111/CCTV0204 Kedron St	Existing	Refer Sheet 3	3
P143	M1131 Gympie and Banfield	Existing	Refer Sheet 3	1
P227	M1126 Gympie and Gayford	Existing	Refer Sheet 2	6
P306	CS795 Linkfield Rd NB On Ramp	Existing	Refer Sheet 2	6
P221	M1122 Gympie and Robinson	Existing	Refer Sheet 4	3
P254	M1134 Gympie and Graham	Existing	Refer Sheet 4	1
P291	M1132 Gympie and Beans	Existing	Refer Sheet 5	1

1.1.4 Fibre Optic Testing

Testing in accordance with MRTS234 at 1310 and 1550nm wavelengths required on all the contractors works. VIP of all new and existing FOBOTS is to be provided by the contractor.

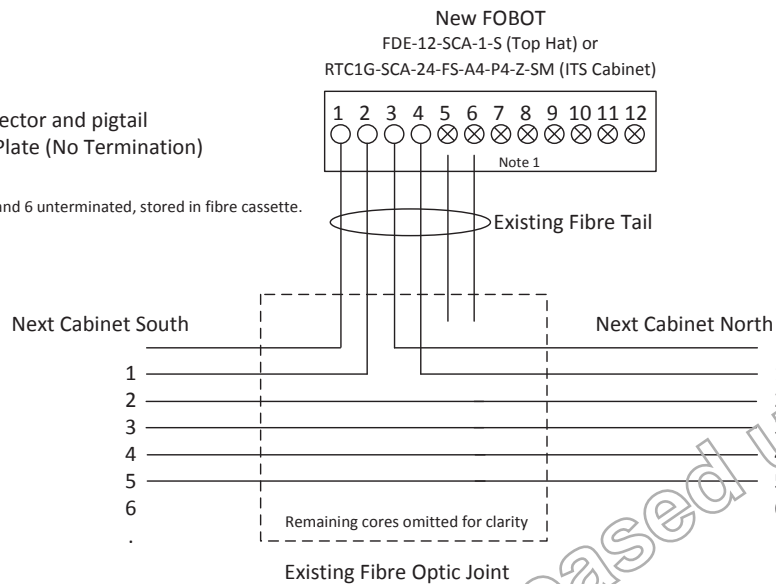
In addition to the testing required from the contractors works, the contractor shall provide VIP, OTDR and LSPM on FOBOT F2 (1-36) at Aspley Node and FOPP-2 at CS801 (1-36).

Appendix A – Fibre Optic Modification Drawings

Released under RTI - DTMR

- SCA Connector and pigtail
- ⊗ Blanking Plate (No Termination)

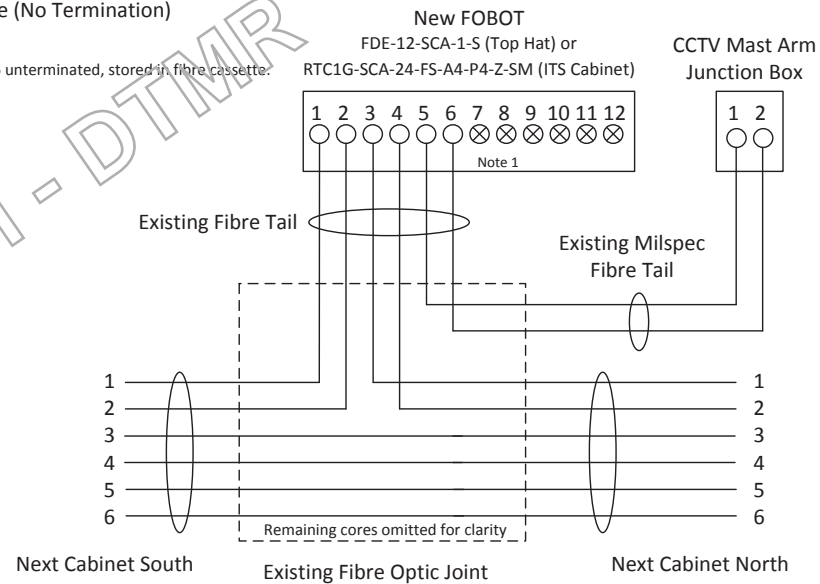
Note 1 – Cores 5 and 6 unterminated, stored in fibre cassette.



Detail 1

- SCA Connector and pigtail
- ⊗ Blanking Plate (No Termination)

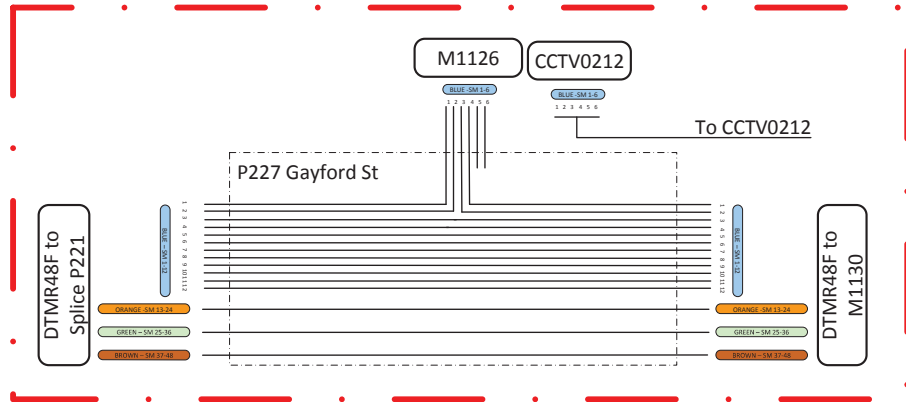
Note 1 – Cores 5 and 6 unterminated, stored in fibre cassette.



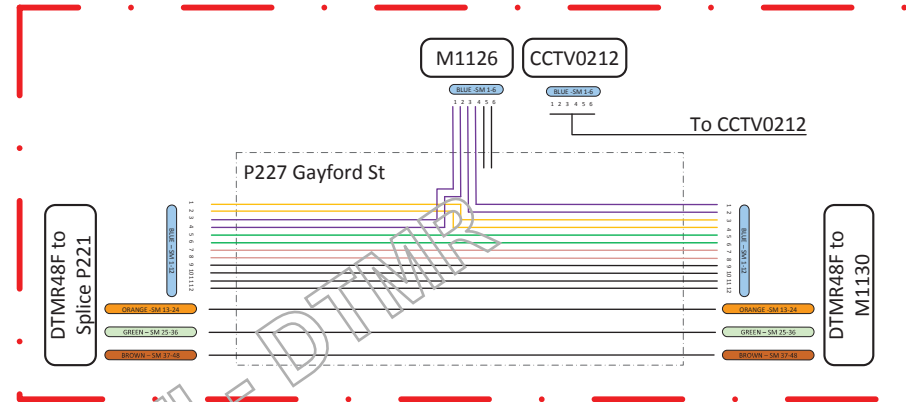
Detail 2

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						Horiz. Datum		WGS84		Metropolitan District		Sheet 1					Job No.	
					Auxiliary Drawing #:	Height Datum				Reference Points		Drawn by	Drawing Checks	Design	Design	Engineering Certification (RPEQ)	Contract No.	
						Survey Books				Preceding	Dist. To start	From start to	From end to	Following			Drawing No.	
A	Original Issue A3																Series No.	
RTI-549 IMD PDO Metropolitan region - Colin Otto - attachments.pdf - Page Number: 27 of 239																1 of 1		

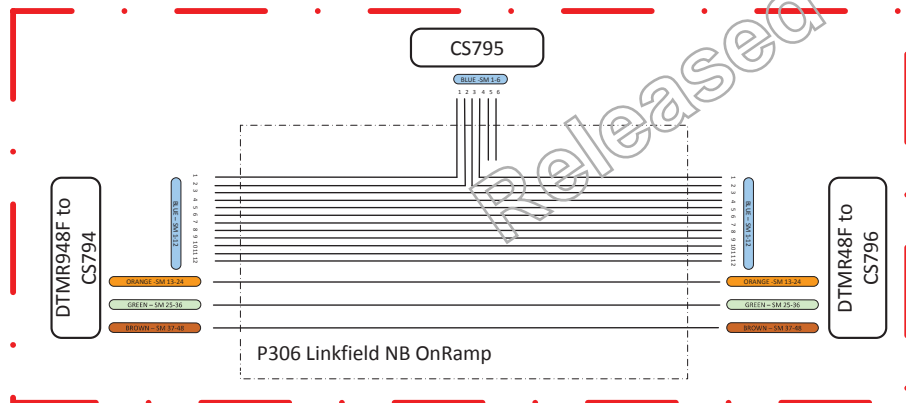
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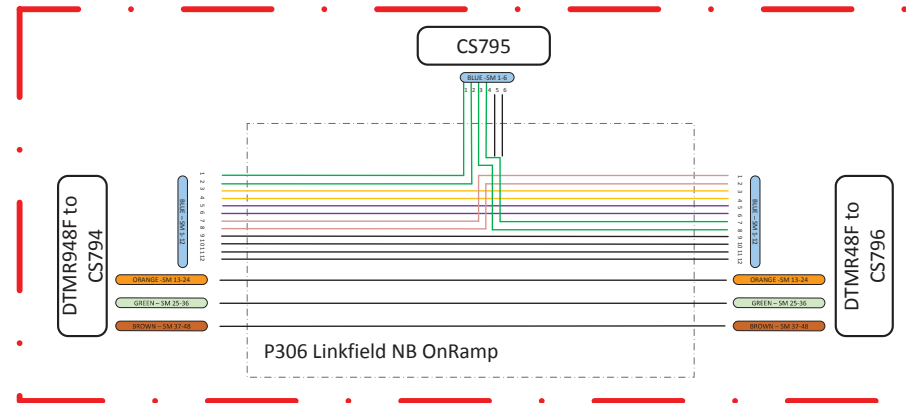
Proposed Arrangement



Existing Arrangement

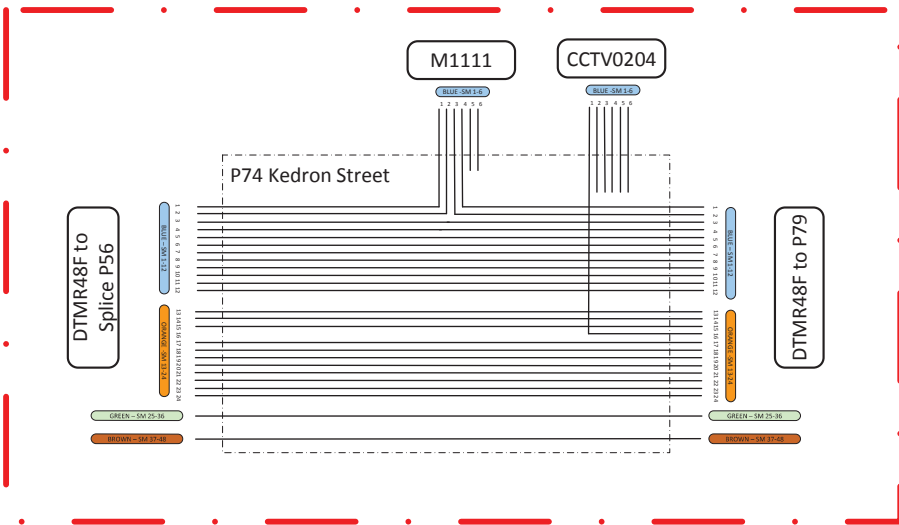


Proposed Arrangement

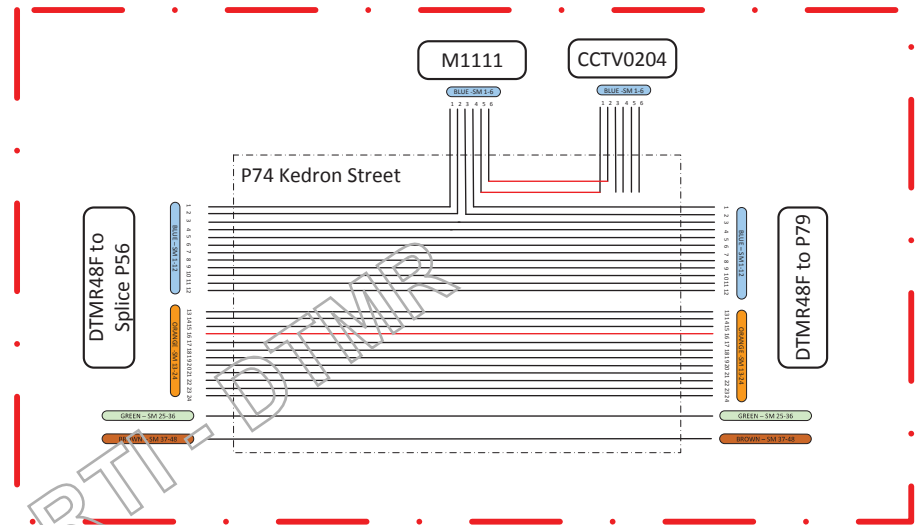


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						Horiz. Datum	WGS84			Metropolitan District			M1126 and CS795					
					Auxiliary Drawing #:	Height Datum				Reference Points			Drawn by	Design Checked	Design Verified	Design Review	Engineering Certification (RPEO)	
					Survey Books	Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise		Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Colin Otto			Contract No.
A		Original Issue A3																Drawing No.
Visio Files																		Series No.
																		1 of 1

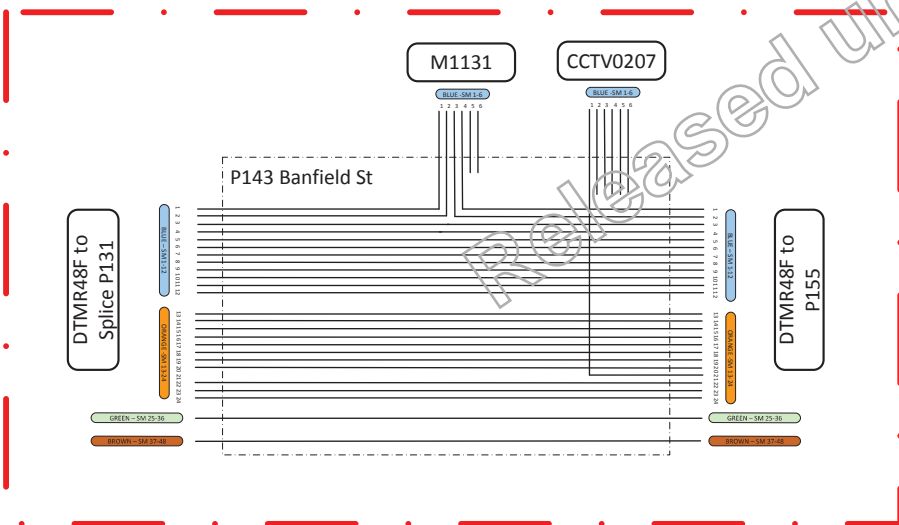
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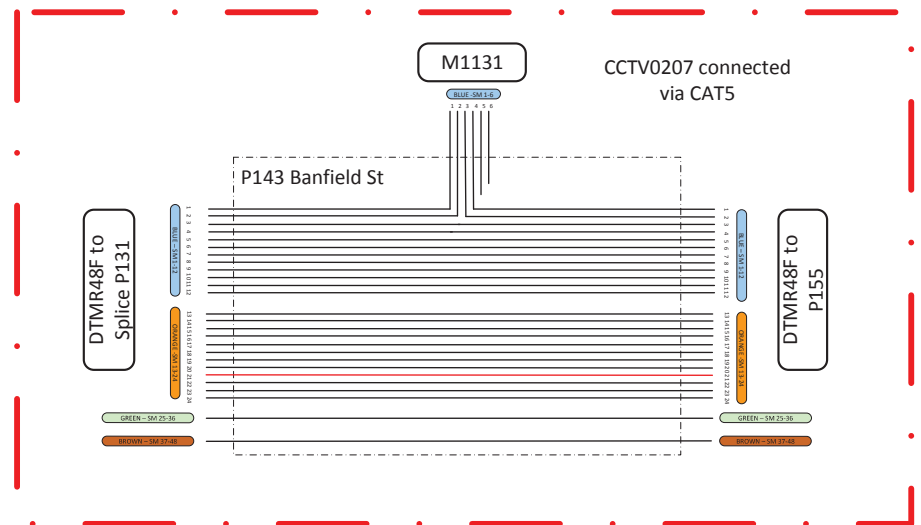
Proposed Arrangement



Existing Arrangement

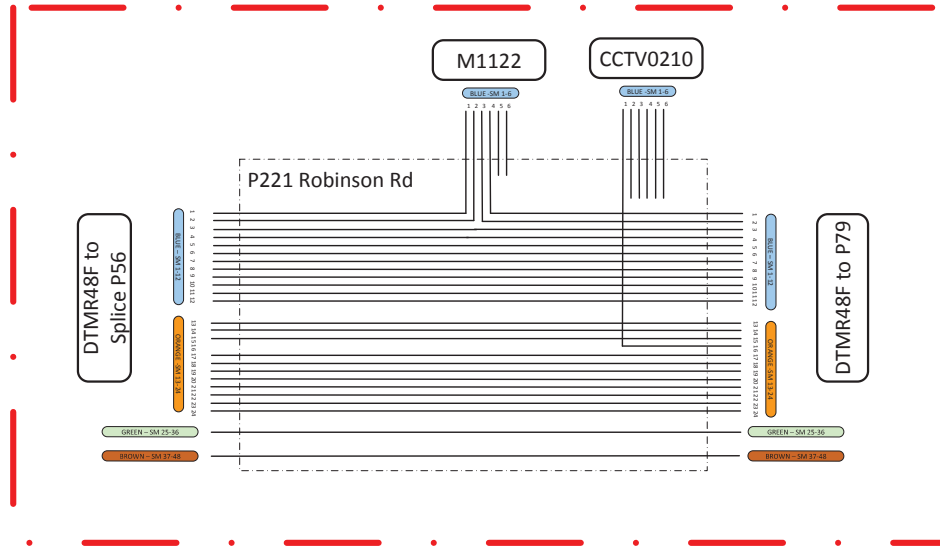


Proposed Arrangement

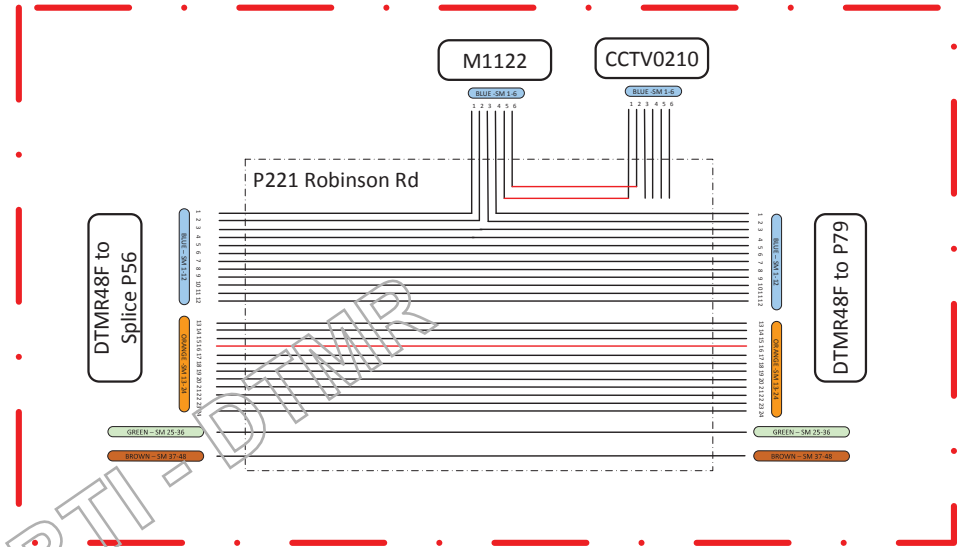


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					Auxiliary Drawing #:					Reference Points			Design Verified		Engineering Certification (RPEO)	Contract No.		
					Classification	Security-in-Confidence		Dimensions shown in millimetres except where shown otherwise		Preceding RP Dist. To start of job (km) From start to end of job From end to Following RP Following RP			Design Review			Drawing No.		
A		Original Issue A3											Drawn by Colin Otto 31/07/2018				Contract No. Drawing No. A	
Visio Files																	Series No. 1 of 1	

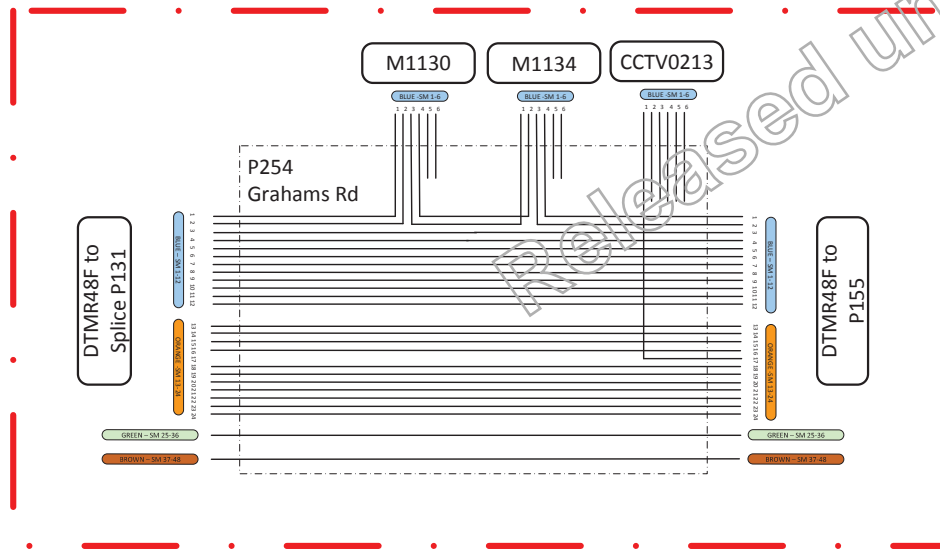
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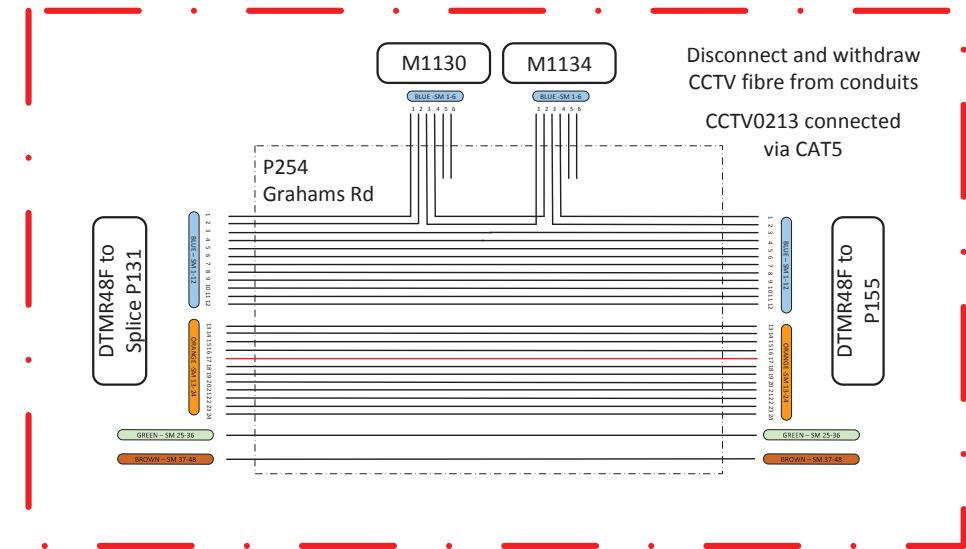
Proposed Arrangement



Existing Arrangement



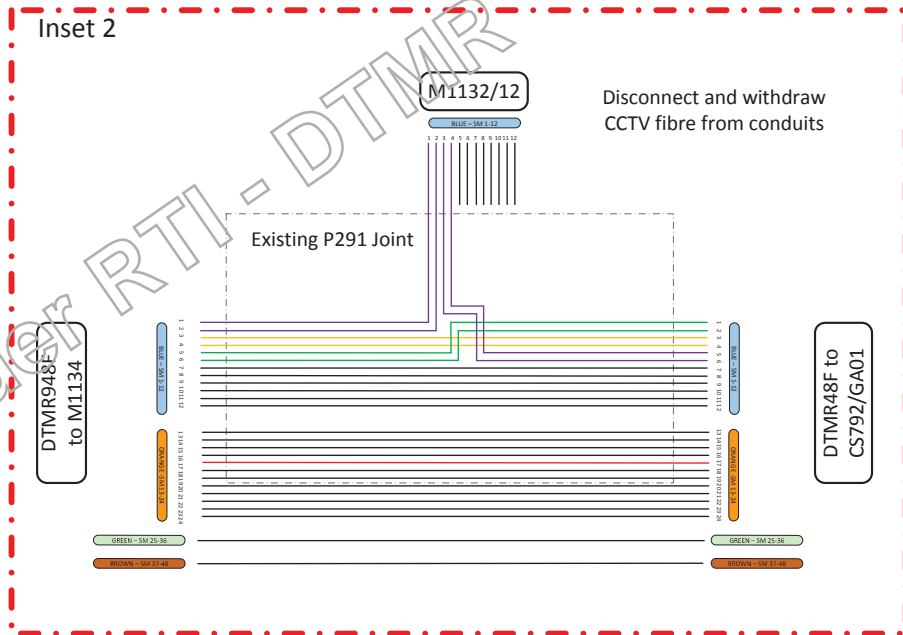
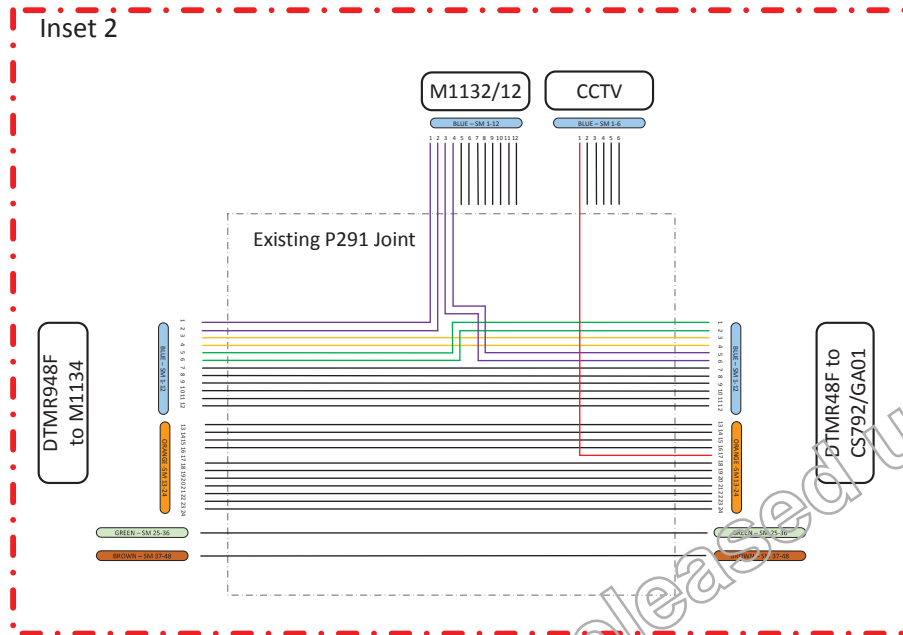
Proposed Arrangement



Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads			Fibre Modifications				Site No.	Queensland Government	
						WGS84				Metropolitan District			CCTV0210 and CCTV0213					Department of Transport & Main Roads	
					Auxiliary Drawing #:					Reference Points			Sheet 4					Contract No.	
										Preceding RP			Drawing No.					Series No.	
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A		Original Issue A3								From end to Following RP			Colin Otto						

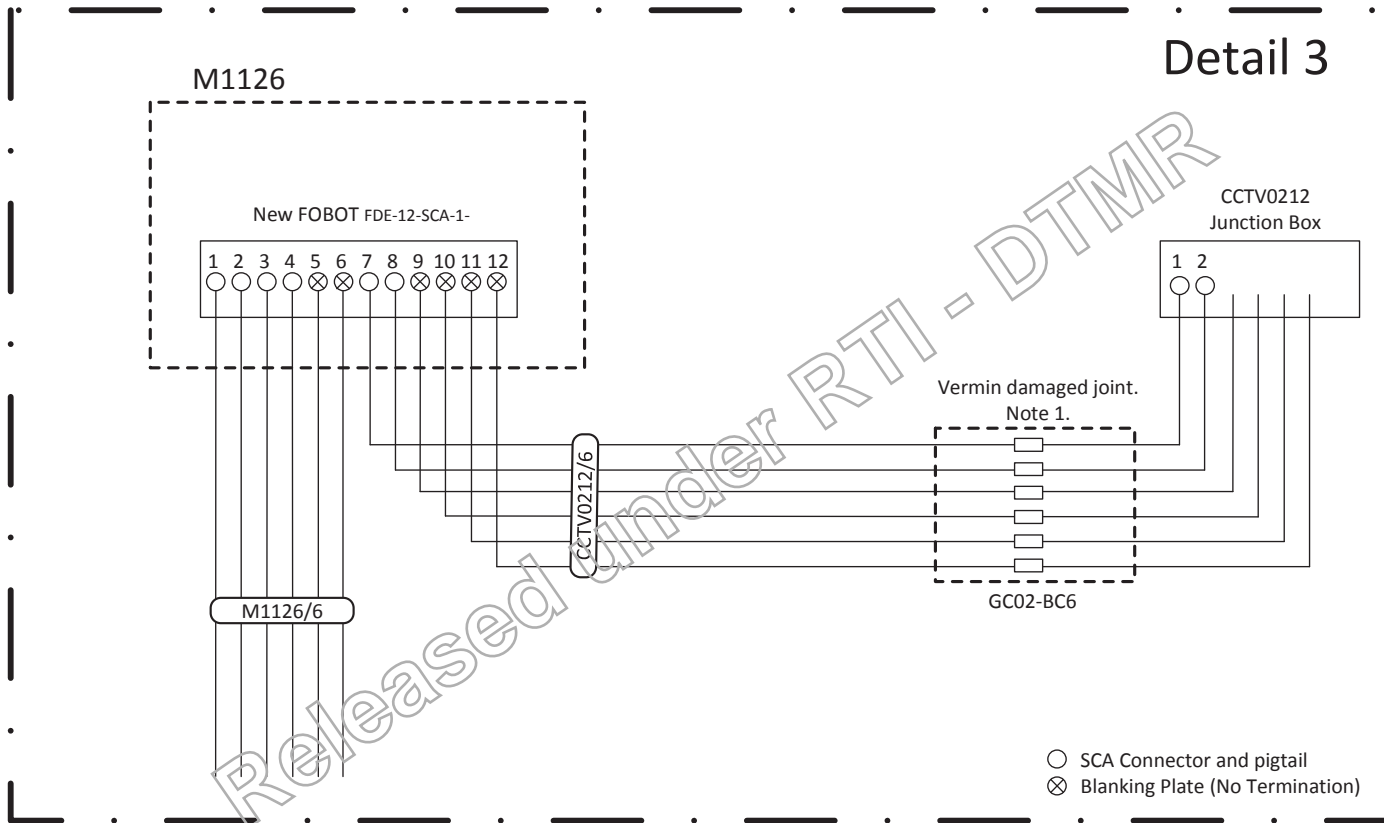
Existing Arrangement

Proposed Arrangement



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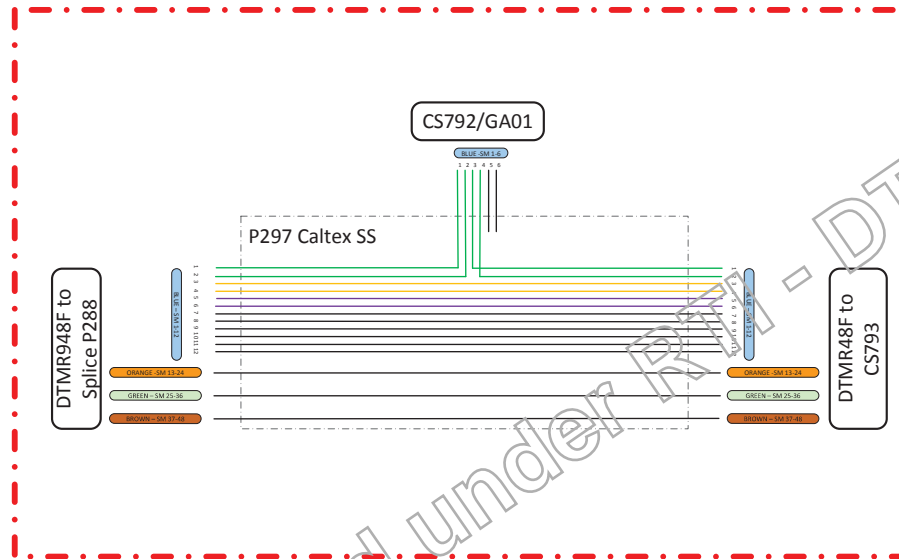
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					Horiz. Datum	WGS84		Metropolitan District			Sheet 5				
				Auxiliary Drawing #:	Height Datum		Dimensions shown in millimetres except where shown otherwise	Reference Points			Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEO)
					Survey Books			Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Colin Otto		
A	Original Issue A3				Classification	Security-in-Confidence						31/07/2013			
Visio Files				© Copyright TMR 2016											



Note 1. If cable is replaced to M1126, Joint shall be omitted, Otherwise joint replaced with new GC02-BC6-NV..

Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				Site No.	 Department of Transport & Main Roads		
					Horiz. Datum	WGS84		Metropolitan District							
				Auxiliary Drawing #:	Survey Books		Dimensions shown in millimetres except where shown otherwise	Reference Points				Drawn by Colin Otto 31/07/2018	Drawing Checked Design Verified Design Review Engineering Certification (RPEC) 1 of 1		
A					Classification	Security-In-Confidence		Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP			Following RP	
Visio Files				Original Issue A3				© Copyright TMR 2016				M1126 FOBOT Termination Sheet 6		Contract No. Drawing No. A Series No.	

Existing Arrangement



Damaged joint to be replaced with new GC02-BC6-NV and terminated as per existing.

Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads			Fibre Optic Joint Replacement		Site No.	 Department of Transport & Main Roads					
						Horiz. Datum	WGS84			Metropolitan District			CS792/GA01								
					Auxiliary Drawing #:	Height Datum				Reference Points			Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEO)				
						Survey Books				Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP							
A	Original Issue A3					Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise		© Copyright TMR 2016			Colin Otto 31/07/2013					Contract No.	Drawing No.	Series No.	1 of 1

Appendix B – Pricing Schedule

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Traffic Signal Top Hat FOBOT Upgrades

Site ID	Description	FOBOT Part Number	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity	Price
M1108	Gympie and Strathmore/Castle	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1111	Gympie and Kitchener/Sport	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M1113	Gympie and Rode	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1114	Gympie and Wallace	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1116	Gympie and Hamilton	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1117	Gympie and Bouchard	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1131	Gympie and Banfield	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1118	Gympie and Murphy	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1119	Gympie and Webster	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1120	Gympie and Darwin	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1121	Gympie and Albany Creek	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1128	Gympie and Aspley Ped Xing	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1122	Gympie and Robinson	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M1126	Gympie and Gayford	FDE-12-SCA-1-S	Sheet 6 - Detail 3	12	
M1127	Albany Creek and Maundrell/Gayford	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1138	Gayford and Hypermarket	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1129	Albany Creek and Hypermarket	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1126	Gympie and Gayford	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M1130	Gympie and Zillmere	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1134	Gympie and Grahams	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M8054	Beams and Holy Spirit	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
CS792/GA01	Gympie and Caltex SS	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M2133	Strathpine and Bald Hills	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M2161	Strathpine and Hoyland	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	

Note – Traffic Signal FOBOT Upgrades are all able to be undertaken during daylight hours without traffic control.

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ITS Cabinet FOBOT Upgrades

Site ID	Description	FOBOT Part Number	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity	Price
CS793	Gympie Arterial - Gympie Rd Off Ramp NB	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	
CS794	Gympie Arterial Linkfield Rd Off Ramp SB	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	
CS795	Gympie Arterial - Telegraph Rd	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	
CS796	Gympie Arterial - Grand St	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	
CS797	Gympie Arterial - Humrich Place	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	
CS798	Gympie Arterial - Midland St	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	
CS799	Gympie Arterial - Gravel Plant Exit	RTC1G-SCA-24-FS-A4-P4-Z-SM	Sheet 1 - Detail 1	4	

Note – ITS Cabinet FOBOT Upgrades are all able to be undertaken during daylight hours without traffic control.

Fibre Optic Joint Modifications

Site ID	Description	Joint Part Number	Applicable Fobot Splicing Detail	Splice Quantity	Price
CCTV0212	Gympie and Gayford	New GC02-BC6-NV	Refer Sheet 6	6	
P291	M1132 Gympie and Beams	Existing	Refer Sheet 5	1	
CS792/GA01	VMS at Caltex Service Station	New GC02-BC6-NV	Refer Sheet 7	48	
P74	M1111/CCTV0204 Kedron St	Existing	Refer Sheet 3	3	
P143	M1131 Gympie and Banfield	Existing	Refer Sheet 3	1	
P227	M1126 Gympie and Gayford	Existing	Refer Sheet 2	6	
P306	CS795 Linkfield Rd NB On Ramp	Existing	Refer Sheet 2	6	
P221	M1122 Gympie and Robinson	Existing	Refer Sheet 4	3	
P254	M1134 Gympie and Graham	Existing	Refer Sheet 4	1	

Note – P143, P227, P306 and P221 are all able to be undertaken during daylight hours without traffic control.

VIP of Existing FOBOTs

Site ID	Description	VIP Port Quantity	Price
M1103	Gympie and Stafford	10	
CCTV0202	Gympie and Leckie CCTV	4	
M1101	Gympie and Kedron Park	4	
M1107	Gympie and Sadlier	4	

Gympie Road Network Upgrade

Scope of Works

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Action statement

Date	Name	Position	Action required	Due date
			Delete this text box if not required	

Prepared by Colin Otto
Title Senior Engineer (Electrical)
Branch PD&O
Division Metropolitan Region
Department Department of Transport and Main Roads
Version no. 1.0
Version date 5 July 2019
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Contact for enquiries and proposed changes

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

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Version history

Version no.	Date	Changed by	Nature of amendment
1.0	5/07/2019	C Otto	Approved for use

Released under RTI - DTMR

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1 Introduction

Gympie Road ITS network operates on an existing fibre optic network. The network configuration currently provides no redundancy and is not compliant with the current version of MRTS245. Gympie Road is a highly utilised arterial road. Emergency Vehicle Priority (EVP) is deployed across the region and relies upon real time communications to the individual intersections, It is critical that the network provide a high level of availability to ensure the communications to individual intersections is available when needed for EVP.

A capital submission was put forward to upgrade the network to reconfigure the fibre optic, install new network switch hardware and migrate all existing network connected equipment over to the new network.

2 Scope of Works

2.1 TMR Scope

The following works will be undertaken by TMR.

- Supply of Network Switches and associated power supplies.
- Configuration of network switches.

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2.2 RoadTek Scope

The following works will be undertaken by RoadTek. Fibre Modification drawings are provided in Appendix B.

2.2.1 ITS Field Cabinet Modifications and FOBOT Upgrades

Installation of nominated equipment in the following ITS Field Cabinets

ITS Cabinet Modifications and FOBOT Upgrades		
Site ID	Description	Work Item
CS793	Gympie Arterial - Gympie Rd Off Ramp NB	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent)
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads
		Relocate existing FP and power supply to new 10"DIN
		Label all equipment and associated cabling as per drawing.
		Install label on cabinet exterior
CS794	Gympie Arterial Linkfield Rd Off Ramp SB	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent)
		Label FOBOTs 'FOBOT1; and 'FOBOT 2'
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads.
		Relocate existing FP and power supply to new 10"DIN
		Label all equipment and associated cabling as per drawing.
CS795	Gympie Arterial - Telegraph Rd	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent) between new and existing FOBOTs.
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads.
		Relocate existing FP, Media Convertor and power supplies to new 10"DIN
		Label all equipment and associated cabling as per drawing.
CS796	Gympie Arterial - Grand St	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent)
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads.
		Relocate existing FP and power supply to new 10"DIN
		Label all equipment and associated cabling as per drawing.
		Install label on cabinet exterior

CS797	Gympie Arterial - Humrich Place	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent)
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads.
		Relocate existing FP and power supply to new 10"DIN
		Label all equipment and associated cabling as per drawing.
		Install label on cabinet exterior
CS798	Gympie Arterial - Midland St	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent)
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads.
		Relocate existing FP and power supply to new 10"DIN
		Label all equipment and associated cabling as per drawing.
		Install label on cabinet exterior
CS799	Gympie Arterial - Gravel Plant Exit	Supply, install and terminate RTC1G-SCA-24-FS-A4-P4-Z-SM - Note 1
		Supply and install Patch Cord Minder (CABAC PCMD-S or equivalent)
		Supply and install 19" Rack Mount DIN
		Install new Cisco Switch and associated power supply on new 19" DIN.
		Install new fibre optic patch leads.
		Relocate existing FP and power supply to new 10"DIN
		Label all equipment and associated cabling as per drawing.
		Install label on cabinet exterior

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2.2.2 Traffic Signal Top Hat Modifications

Upgrade the FOBOTS in the following Traffic Signal Controller Top Hats. Termination typical drawings are provided in Appendix B.

Traffic Signal Top Hat FOBOT Upgrades			
Site ID	Description	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity
M1108	Gympie and Strathmore/Castle	Detail 1	4
M1111	Gympie and Kitchener/Sport	Detail 2	6
M1113	Gympie and Rode	Detail 1	4
M1114	Gympie and Wallace	Detail 1	4
M1116	Gympie and Hamilton	Detail 1	4
M1117	Gympie and Bouchard	Detail 1	4
M1131	Gympie and Banfield	Detail 1	4
M1118	Gympie and Murphy	Detail 1	4
M1119	Gympie and Webster	Detail 1	4
M1120	Gympie and Darwin	Detail 1	4
M1121	Gympie and Albany Creek	Detail 1	4
M1128	Gympie and Aspley Ped Xing	Detail 1	4
M1122	Gympie and Robinson	Detail 2	6
M1126	Gympie and Gayford	Detail 3	12
M1127	Albany Creek and Maundrell/Gayford	Detail 1	4
M1138	Gayford and Hypermarket	Detail 1	4
M1129	Albany Creek and Hypermarket	Detail 1	4
M1126	Gympie and Gayford	Detail 2	6
M1130	Gympie and Zillmere	Detail 1	4
M1134	Gympie and Grahams	Detail 2	6
M8054	Beans and Holy Spirit	Detail 1	4
CS792/GA01	Gympie and Caltex SS	Detail 1	4
M2133	Strathpine and Bald Hills	Detail 1	4
M2161	Strathpine and Hoyland	Detail 1	4

2.2.3 Additional Fibre Optic Joint Modifications

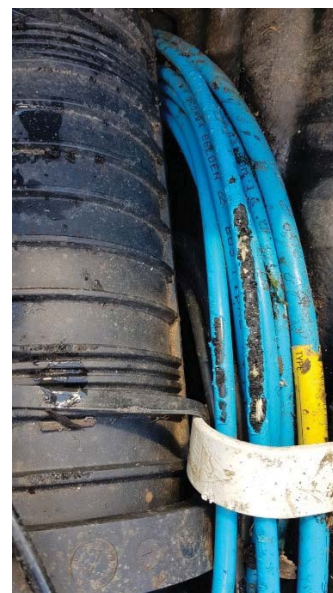
To accommodate the CCTV camera upgrades already completed, and completed as part of this works, the legacy CCTV fibre optic cores shall be returned for use to the fibre optic backbone. The following joints are to be modified as per the design drawings. Fibre Optic Joint Modification Drawings are provided in Appendix B.

CCTV Fibre Modifications		
P74	CCTV0204 Kedron St	Terminate fibre as per Detail 2 on 'Fibre Optic Modifications' Drawing. VIP Fibre connectors at CCTV, replace if out of spec.
P143	Banfield St	Disconnect Milspec cable from joint at P143. Terminate core 21 south to core 21 north on 96 core backbone cable.
P221	Robinson Road	Terminate fibre as per Detail 2 on 'Fibre Optic Modifications' Drawing. VIP Fibre connectors at CCTV, replace if out of spec.
P254	Grahams Road	Disconnect core 16 from TSC tail and reterminate straight through in joint.
P288	Beams Road	Disconnect core 17 from Milspec tail and reterminate straight through in joint.

2.2.4 Fibre Optic Joint Repair

The existing joint adjacent to CCTV0212 and the additional coil of fibre has been damaged by vermin. Prior to upgrading the FOBOT in M1126, the integrity of the cable to M1126 is to be confirmed by testing of all cores (bare fibre adaptor testing of unterminated cores) and if more than 2 of the 6 cores are damaged, the cable is to be replaced completely to M1126 and reterminated at both ends of the cable as per Detail 3 on Drawing "M1126 FOBOT Termination" and the splicing drawing for P227.

If the cable integrity is intact, the contractor shall install a new joint and terminate as per drawing provided in Appendix B for CCTV0212 Detail 3.



2.2.5 Fibre Optic Testing

Testing in accordance with MRTS234 at 1310 and 1550nm wavelengths required on all the contractors works. VIP of all new and existing FOBOTS is to be provided by the contractor.

In addition to the testing required from the contractors works, the contractor shall provide VIP, OTDR and LSPM on FOBOT F2 (1-36) at Aspley Node and FOPP-2 at CS801 (1-36).

2.2.6 CCTV Upgrades

Upgrade of the following CCTV sites to new IP CCTV. Upgrade includes relocation of existing media converters and installation of new copper and fibre optic patch leads.

CCTV Upgrades		
M1111	CCTV0204 Gympie/ Kitchener/Sport	Install new Pelco ES6230, configure network details and connect to Layer 2 switch in M1111
M1122	CCTV0210 Gympie/Robinson	Install new Pelco ES6230, configure network details and connect to Layer 2 switch in M1122

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Network Switch Installation

RoadTek shall install the TMR supplied and configured Cisco IE2000 switches and associated power supplies in the following locations. The switch installation shall include new fibre optic patch leads between new switches and FOBOTs. SFPs are supplied by TMR.

Site	Switch Type	SFPs
M1120	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1121	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1128	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1122	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1127	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1138	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1129	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1126	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1130	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1134	IE2000-4TS-G-B	GLC-LH-SMD x 2
M1132	IE2000-4TS-G-B	GLC-LH-SMD x 2
M0289	IE2000-4TS-G-B	GLC-LH-SMD x 2
M8054	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS792/GA01	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS793	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS794	IE2000-16TC-G-X	GLC-LH-SMD x 2
MGN001	IE2000-4TS-G-B	GLC-LH-SMD x 2
M2178	IE2000-4TS-G-B	GLC-LH-SMD x 2
M2193	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS795	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS796	IE2000-4TS-G-B	GLC-LH-SMD x 2
M2133	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS797	IE2000-4TS-G-B	GLC-LH-SMD x 2
M2161	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS798	IE2000-4TS-G-B	GLC-LH-SMD x 2
CS799	IE2000-4TS-G-B	GLC-LH-SMD x 2
CCTV0221	IE2000-4TS-G-B	GLC-LH-SMD x 2

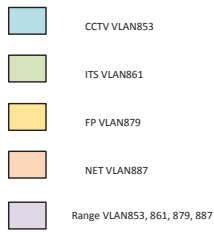
2.2.7 Configuration of Network Switches

TMR will supply the configured network switches to RoadTek ready to install on site. No further configuration beyond that applied by TMR.

Network drawings provided for information in Appendix A. RoadTek shall be responsible for installation and commissioning of Network Switches and applying new network settings to existing ITS equipment (excluding Filed Processors – DHCP).

Appendix A – Network Drawings

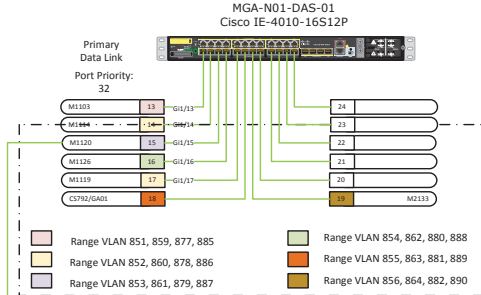
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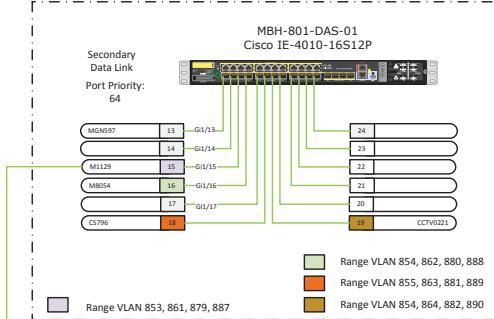
DHCP Scope 1 (applied on Core switch at HALTC)

Parameters:
 - IP Pool: 10.79.26.64/27
 - Address Range: 10.79.26.68 to 10.79.26.94
 - DNS: 10.94.1.10, 10.94.1.11
 - Router (G/W): 10.79.26.65
 - Lease Time: 300 (minutes)

Aspley Node

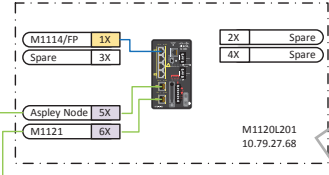


CS801

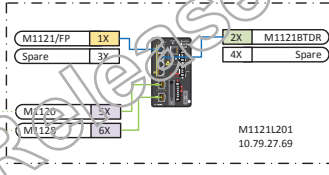


Ring/Switch	Site	Name	Switch ID	VLAN	IP	SN	GW	Port	Description	VLAN	IP Address	Subnet	Gateway
3/1	M1120	Gympie/Darwin	M1120L201	887	10.79.27.68	255.255.255.224	10.79.27.65	1X	M1120/FP	879		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
3/2	M1121	Gympie/Albany Creek rd	M1121L201	887	10.79.27.69	255.255.255.224	10.79.27.65	1X	M1121/FP	879	10.79.25.68	255.255.255.224	10.79.25.65
								2X	M1121BTDOR1	861			
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
3/3	M1128	Gympie/Aspley Ped Xing	M1128L201	887	10.79.27.70	255.255.255.224	10.79.27.65	1X	M1128/FP	879		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
3/4	M1122	Gympie/Robinson	M1122L201	887	10.79.27.71	255.255.255.224	10.79.27.65	1X	M1122/FP	879		DHCP	
								2X	M1122BTDOR1	861	10.79.25.69	255.255.255.224	10.79.25.65
								3X					
								4X	CCTV0210	853	10.79.24.68	255.255.255.224	10.79.24.65
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
3/5	M1127	Albany Creek Maundrell/Gayford	M1127L201	887	10.79.27.72	255.255.255.224	10.79.27.65	1X	M1127/FP	879		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
3/6	M1138	Gayford/Hypermarket	M1138L201	887	10.79.27.73	255.255.255.224	10.79.27.65	1X	M1138/FP	879		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
3/7	M1129	Albany Creek Hypermarket	M1129L201	887	10.79.27.74	255.255.255.224	10.79.27.65	1X	M1129/FP	879		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				

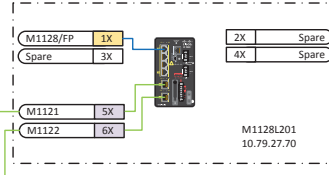
M1120 Gympie and Darwin



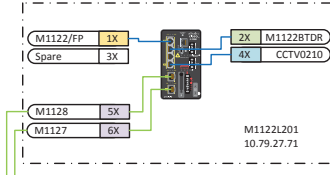
M1121 Gympie and Albany Creek



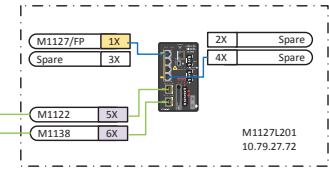
M1128 Gympie and Aspley Ped Crossing



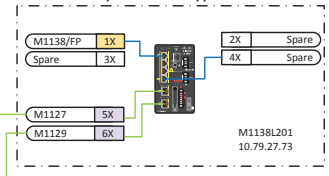
M1122 Gympie and Robinson



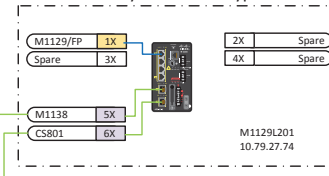
M1127 Albany Creek and Maundrell/Gayford



M1138 Gayford and Hypermarket



M1129 Albany Creek and Hypermarket



Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads Metropolitan District	Gympie Road Network Ring 3				Site No.	Queensland Government
B	As Constructed	CO	31/10/2018		WGS84			Drawn by	Drawing Checked	Design Verified	Design Reviewed	Engineering Certification (RPEQ) C Otto 12762	Department of Transport & Main Roads
A	Original Issue A3							From start to end of job	From end to end of job	Following			Contract No.
													Drawing No.
													Series No.

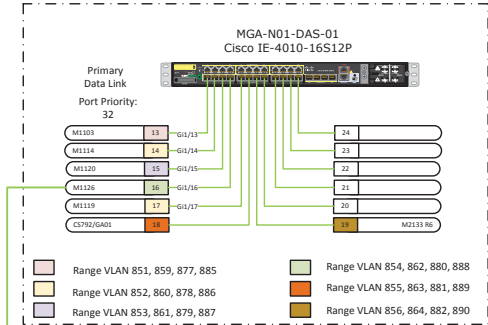
- CCTV VLAN854
- ITS VLAN862
- FP VLAN880
- NET VLAN888
- Range VLAN 854, 862, 880, 888

- Single Mode Fiber 1 Gig
- Copper Ethernet 1 Gig

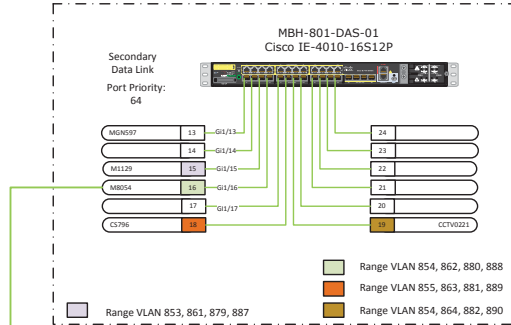
DHCP Scope 1 (applied on Core switch at HALTC)

Parameters:
 - IP Pool: 10.79.26.96/27
 - Address Range: 10.79.26.100 to 10.79.26.126
 - DNS: 10.94.1.10, 10.94.1.11
 - Router (G/W): 10.79.26.97
 - Lease Time: 300 (minutes)

Aspley Node

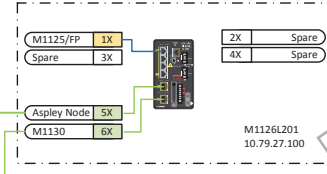


CS801

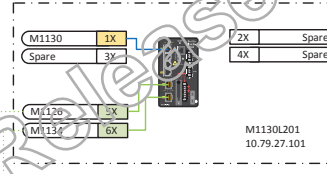


Ring/Switch	Site	Name	Switch ID	VLAN	IP	SN	GW	Port	Description	VLAN	IP Address	Subnet	Gateway	Notes	
4/1	M1126	Gympie/Gayford	M1126L201	888	10.79.27.100	255.255.255.224	10.79.27.97	1X	M1125/FP	880				CCTV0212 Upgrading to IP camera 20/05/2019	
								2X							
								3X							
								4X	CCTV0212 Future	854	10.79.24.100	255.255.255.224	10.27.24.97		
								5X	FOBOT 1/2						
								6X	FOBOT 3/4						
4/2	M1130	Gympie/Zillmere	M1130L201	888	10.79.27.101	255.255.255.224	10.79.27.97	1X	M1130/FP	880					
								2X							
								3X							
								4X							
								5X	FOBOT 1/2						
								6X	FOBOT 3/4						
4/3	M1134	Gympie/Graham	M1134L201	888	10.79.27.102	255.255.255.224	10.79.27.97	1X	M1134/FP	880					
								2X							
								3X							
								4X	CCTV0213	854	10.79.24.101	255.255.255.224	10.27.24.97		
								5X	FOBOT 1/2						
								6X	FOBOT 3/4						
4/4	M1132	Gympie/Beams	M1132L201	888	10.79.27.103	255.255.255.224	10.79.27.97	1X	M1132/FP	880					
								2X	M1132BTDOR01	862	10.79.25.100	255.255.255.224	10.79.25.97		
								3X	CCTV0214	854	10.79.24.102	255.255.255.224	10.27.24.97		
								4X	WEBCAM3025	854	10.79.24.103	255.255.255.224	10.27.24.97		
								5X	FOBOT 1/2						
								6X	FOBOT 3/4						
4/5	M0289	Beams/Lacey	M0289L201	888	10.79.27.104	255.255.255.224	10.79.27.97	1X	M8054/FP	880					
								2X							
								3X							
								4X							
								5X	FOBOT 1/2						
								6X	FOBOT 3/4						
4/6	M8054	Beams/Holy Spirit	M8054L201	888	10.79.27.105	255.255.255.224	10.79.27.97	1X	M8054/FP	880					
								2X							
								3X							
								4X							
								5X	FOBOT 1/2						
								6X	FOBOT 3/4						

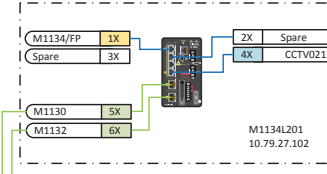
M1126 Gympie and Gayford



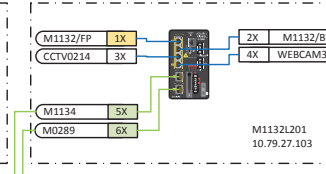
M1130 Gympie and Zillmere



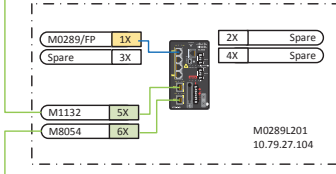
M1134 Gympie and Grahams



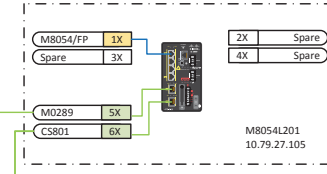
M1132 Gympie and Beams



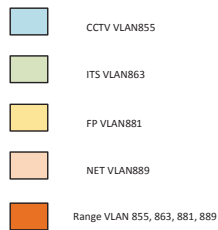
M0289 Beams and Lacey



M8054 Beams and Holy Spirit



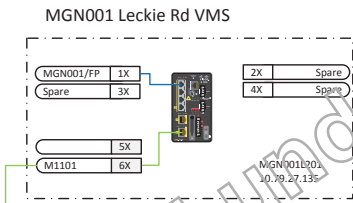
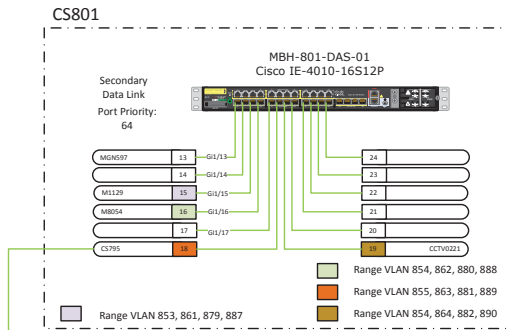
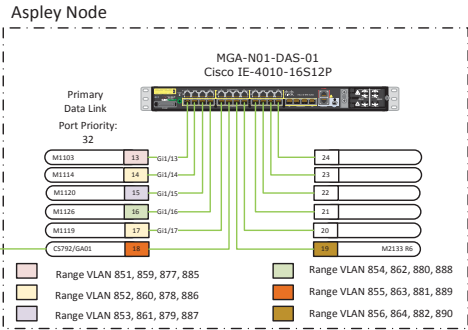
Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads Metropolitan District		Gympie Road Network Ring 4		Site No.	Queensland Government Department of Transport & Main Roads		
						WGS84											
Auxiliary Drawing #:																	
B	As Constructed	CO	31/10/2018														
A	Original Issue A3																



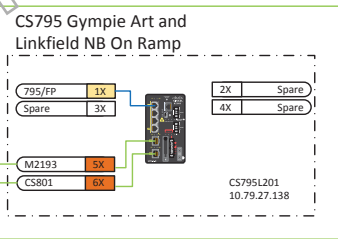
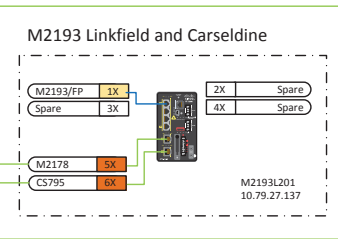
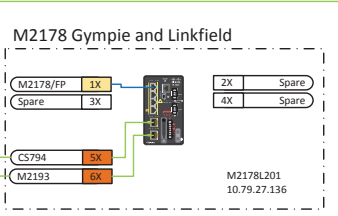
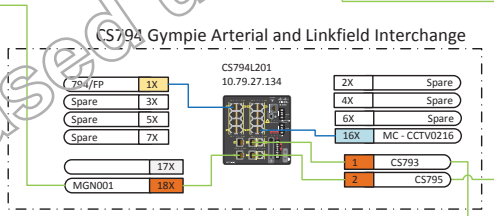
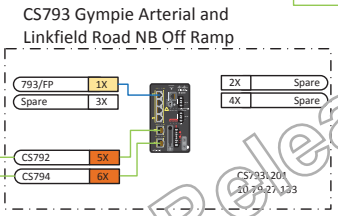
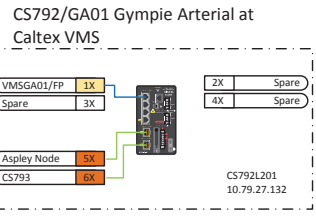
DHCP Scope 1 (applied on Core switch at HALTC)

Parameters:

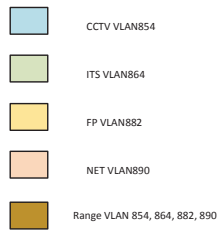
- IP Pool: 10.79.26.128/27
- Address Range: 10.79.26.132 to 10.79.26.158
- DNS: 10.94.1.10, 10.94.1.11
- Router (G/W): 10.79.26.129
- Lease Time: 300 (minutes)



Ring/Switch	Site	Name	Switch ID	VLAN	IP	SN	GW	Port	Description	VLAN	IP Address	Subnet	Gateway				
5/1	CS792/GA01	Caltex VMS	CS792L201	889	10.79.27.132	255.255.255.224	10.79.27.129	1X	VMSGA01/FP	881		DHCP					
								2X									
								3X									
								4X									
								5X	FOBOT 1/2								
								6X	FOBOT 3/4								
5/2	CS793	Linkfield NB Offramp	CS793L201	889	10.79.27.133	255.255.255.224	10.79.27.129	1X	793/FP	881		DHCP					
								2X									
								3X									
								4X									
								5X	FOBOT 1/2								
								6X	FOBOT 3/4								
5/3	CS794	Gympie Art @ Linkfield Rd	CS794L201	889	10.79.27.134	255.255.255.224	10.79.27.129	1X	794/FP	881		DHCP					
								2X									
								3X									
								4X									
								Ports 5X to 14X unused									
								15X	MC to CCTV0216	855	10.79.24.132	255.255.255.224	10.79.24.129				
5/3-1	MGN001	Leckie Rd VMS	MGN001L201	889	10.79.27.135	255.255.255.224	10.79.27.129	1X	MGN001FP01	881		DHCP					
								2X									
								3X									
								4X									
								5X	FOBOT 1/2								
								6X	FOBOT 3/4								
5/4	M2178	Gympie/Linkfield @ Linkfield On Ramp	M2178L201	889	10.79.27.136	255.255.255.224	10.79.27.129	1X	M2718/FP	881		DHCP					
								2X									
								3X									
								4X									
								5X	FOBOT Port 1/2								
								6X	FOBOT Port 5/6								
5/5	M2193	Linkfield /Carseldine	M2193L201	889	10.79.27.137	255.255.255.224	10.79.27.129	1X	M2193/FP	881		DHCP					
								2X									
								3X									
								4X									
								5X	FOBOT Port 1/2								
								6X	FOBOT Port 5/6								
5/6	CS795	Gympie Arterial @ Linkfield On Ramp	CS795L201	889	10.79.27.138	255.255.255.224	10.79.27.129	1X	795/FP	881		DHCP					
								2X									
								3X									
								4X									
								5X	FOBOT 1/2								
								6X	FOBOT 3/4								



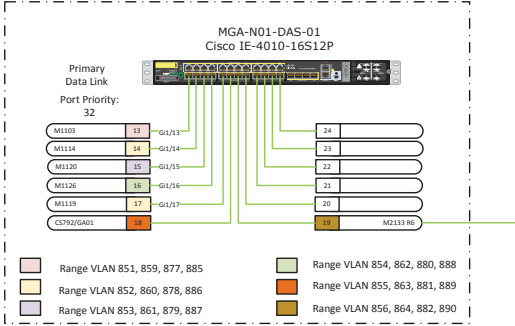
Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads Metropolitan District	Gympie Road Network Ring 5				Site No.	Queensland Government Department of Transport & Main Roads								
					Horiz. Datum WGS84																
B	As Constructed	CO	31/10/2018	Auxiliary Drawing #:	Survey Books																
A	Original Issue A3				Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise	Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn by Colin Otto 31/07/2018	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEQ) C Otto 12762	Contract No.	Drawing No.	Series No.	1 of 1



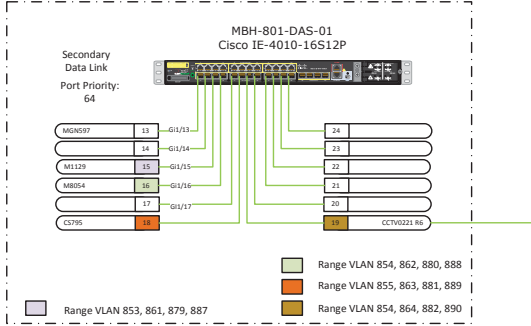
DHCP Scope 1 (applied on Core switch at HALT)

Parameters:
 - IP Pool: 10.79.26.160/27
 - Address Range: 10.79.26.164 to 10.79.26.190
 - DNS: 10.94.1.10, 10.94.1.11
 - Router (G/W): 10.79.26.161
 - Lease Time: 300 (minutes)

Aspley Node

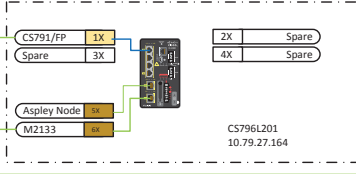


CS801

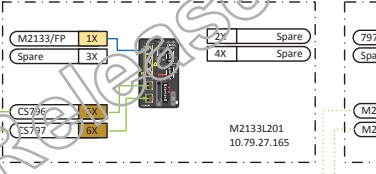


Ring/Switch	Site	Name	Switch ID	VLAN	IP	SN	GW	Port	Description	VLAN	IP Address	Subnet	Gateway
6/1	CS796	Gympie Arterial South of Strathpine	CS796L201	890	10.79.27.164	255.255.255.224	10.79.27.161	1X	796/FP	882		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
6/2	M2133	Strathpine/Bald Hills	M2133L201	890	10.79.27.165	255.255.255.224	10.79.27.161	1X	M2133/FP	882		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
6/3	CS797	Gympie Arterial North of Strathpine rd	CS797L201	890	10.79.27.166	255.255.255.224	10.79.27.161	1X	797/FP	882		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
6/4	M2161	Strathpine and Hoyland	M2161L201	890	10.79.27.167	255.255.255.224	10.79.27.161	1X	M2161/FP	882		DHCP	
								2X					
								3X					
								4X	CCTV0218 (Future)	856	10.79.24.164	255.255.255.224	10.79.24.161
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
6/5	CS798	Gympie Arterial @ Bracken Ridge rd	CS798L201	890	10.79.27.168	255.255.255.224	10.79.27.161	1X	798/FP	882		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
6/6	CS799	Gympie Arterial Sth of Gateway OP	CS799L201	890	10.79.27.169	255.255.255.224	10.79.27.161	1X	799/FP	882		DHCP	
								2X					
								3X					
								4X					
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				
6/7	CCTV0221	Gympie Arterial Sth of Gateway OP	CCTV0221L201	890	10.79.27.170	255.255.255.224	10.79.27.161	1X					
								2X					
								3X	CCTV0221	856	10.79.24.165	255.255.255.224	10.79.24.161
								4X	WEBCAM3024	856	10.79.24.166	255.255.255.224	10.79.24.161
								5X	FOBOT 1/2				
								6X	FOBOT 3/4				

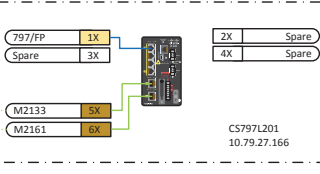
CS796 Gympie Arterial and Strathpine Rd



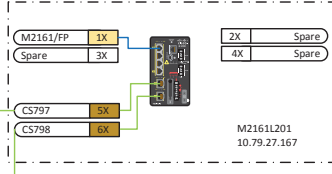
M2133 Strathpine and Bald Hills



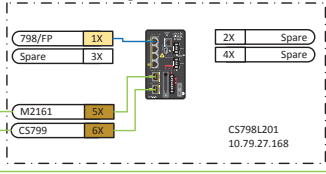
CS797 Gympie Arterial North of Strathpine Road



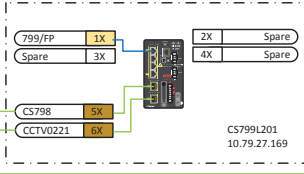
M2161 Strathpine and Hoyland



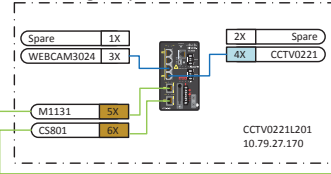
CS798 Gympie Arterial At Bracken Ridge



CS799 Gympie Arterial at Gateway



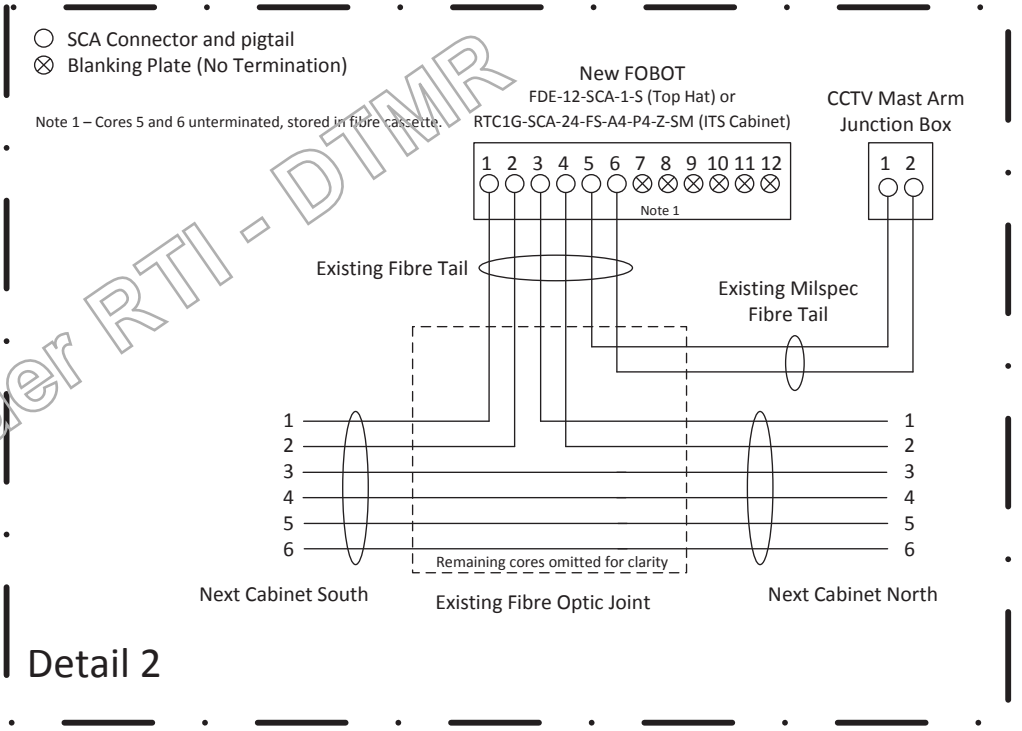
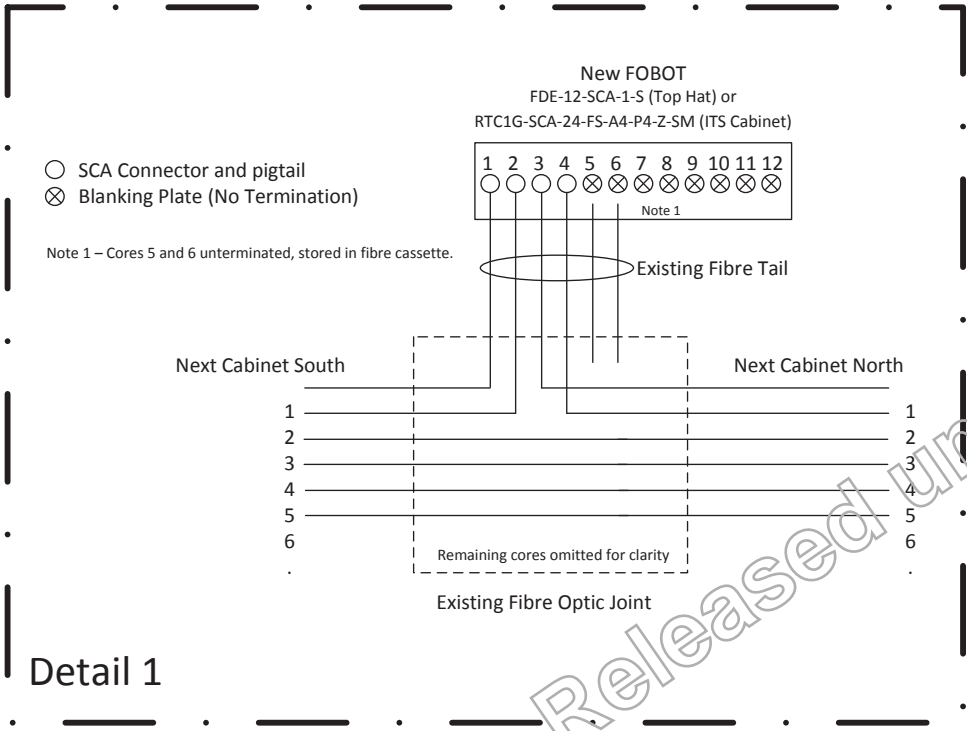
CCTV0221 Gateway Arterial at Bruce Highway



Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads Metropolitan District	Gympie Road Network Ring 4	Site No.	Queensland Government
					WGS84					Department of Transport & Main Roads
				Auxiliary Drawing #:						Job No.
B	As Constructed	CO	31/10/2018							Contract No.
A	Original Issue A3									Drawing No.
RTI-549-IMD - PDO Metropolitan region - Colin Otto - attachments.pdf - Page Number: 51 of 239										B
Engineering Certification (RPEQ) C Otto 12/62										Series No.
© Copyright TMR 2016										1 of 1

Appendix B – Fibre Optic Modification Drawings

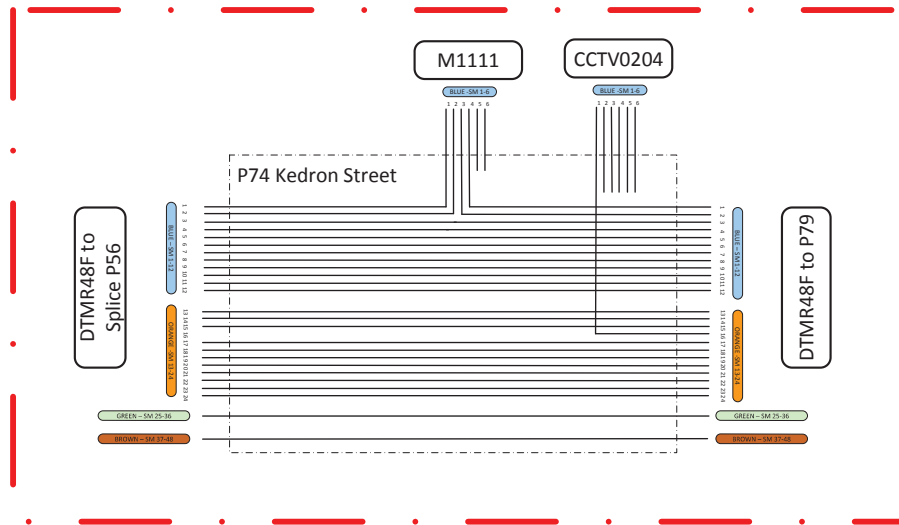
Released under RTI - DTMR



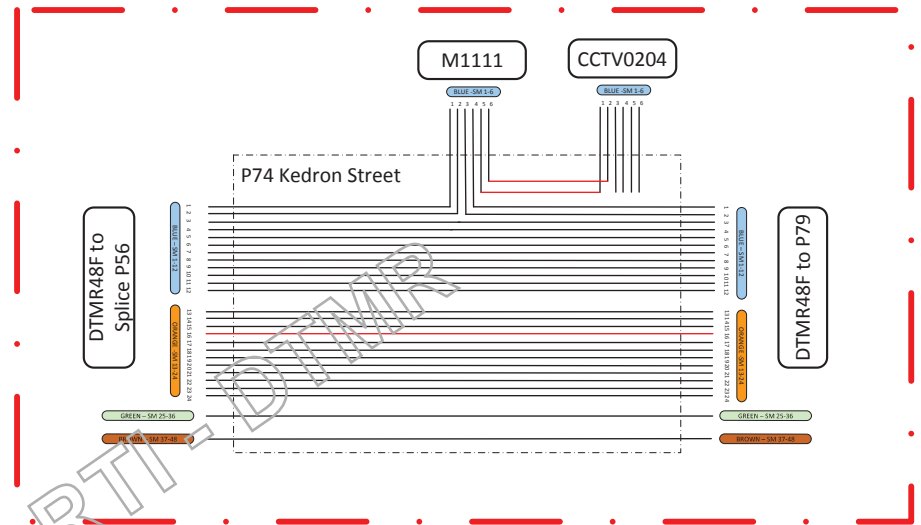
Released under RTI - DTMR

Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads	Fibre Optic Modifications				Site No.	 Department of Transport & Main Roads Job No. Contract No. Drawing No. A Series No.
					Horiz. Datum Height Datum Survey Books Classification Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise WGS84	Metropolitan District	Preceding RP Dist. To start of job (km) Reference Points From start to end of job From end to Following RP Following RP	Drawn by Colin Otto 22/05/2019	Drawing Checked Design Verified Design Review	Engineering Certification (RPEC)	1 of 1	

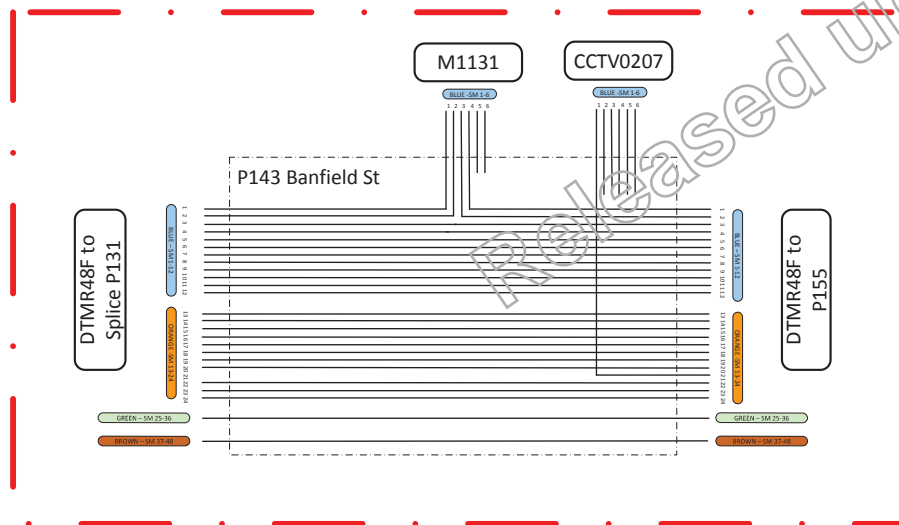
Existing Arrangement



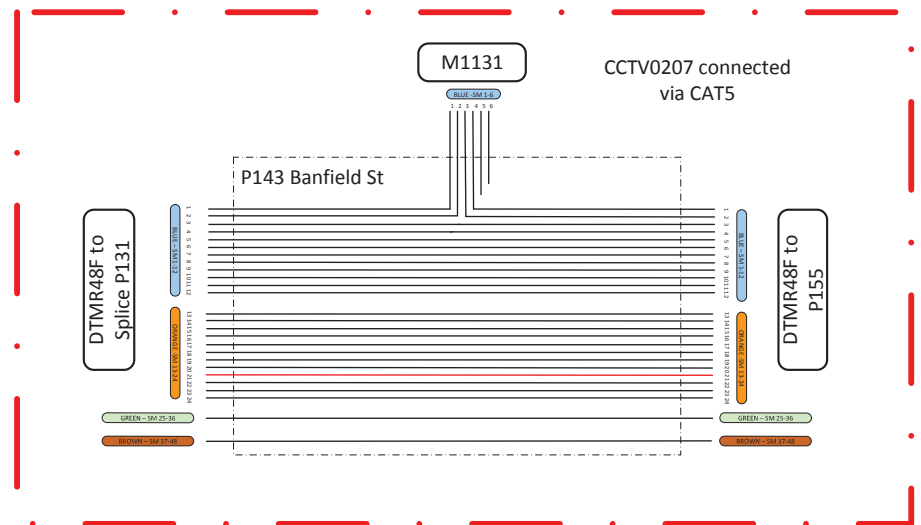
Proposed Arrangement



Existing Arrangement

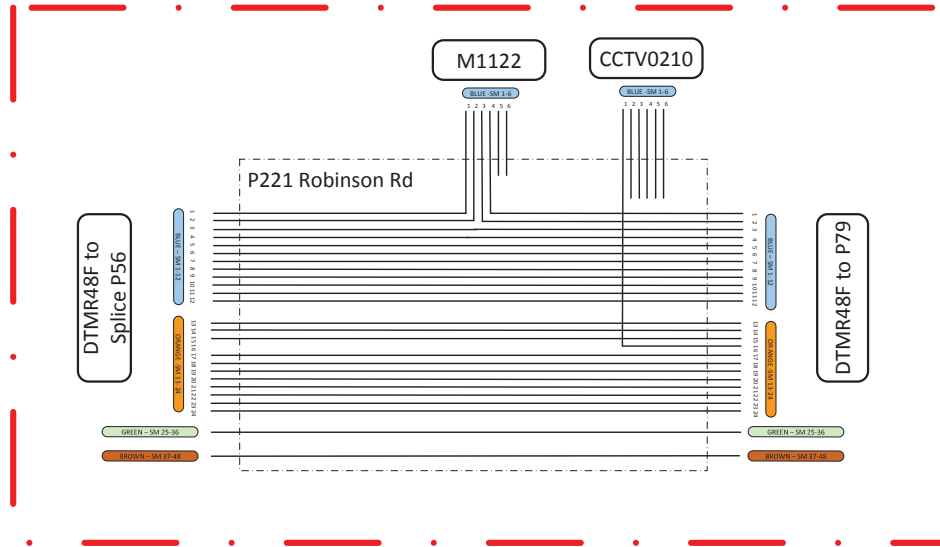


Proposed Arrangement

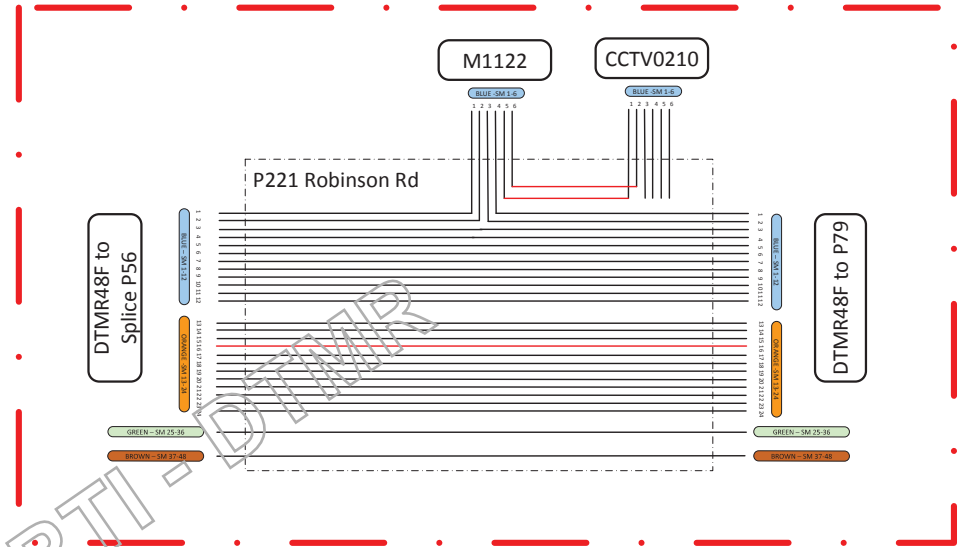


Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads			Fibre Modifications		Site No.	 Department of Transport & Main Roads		
						Horiz. Datum	WGS84			Metropolitan District			CCTV0204 and CCTV0207			Job No.		
					Auxiliary Drawing #:	Height Datum				Reference Points			Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEO)	Contract No.
					Survey Books	Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise		Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP				Contract No.
A	Original Issue A3																	Drawing No.
Visio Files																		Series No.

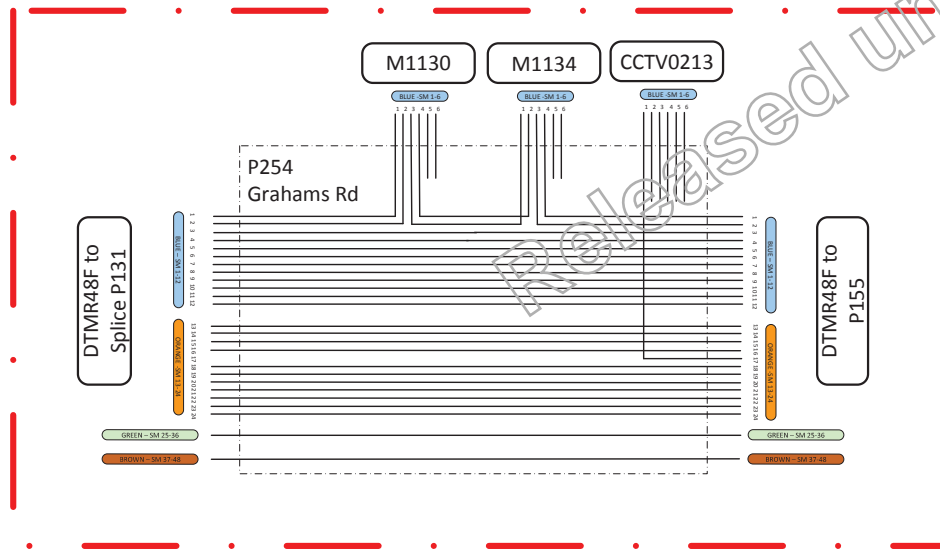
Existing Arrangement



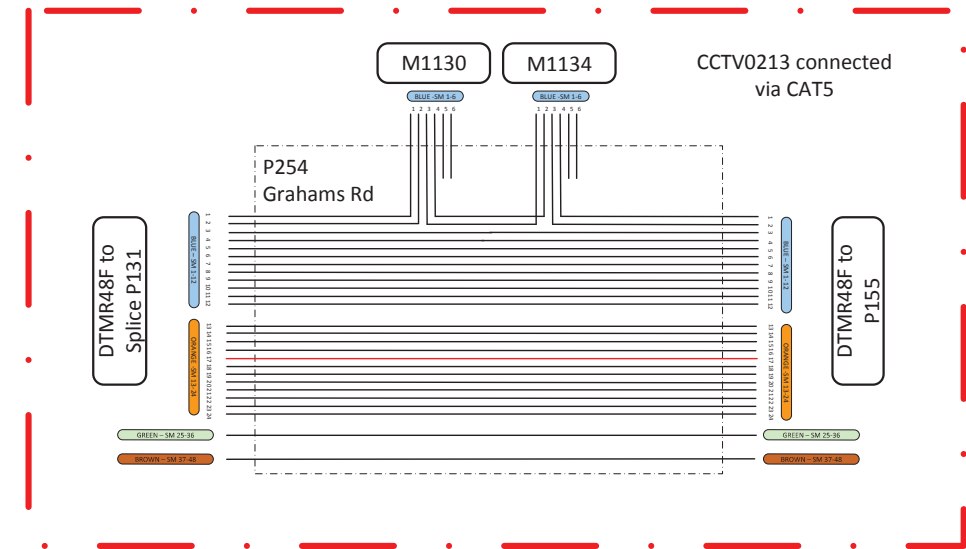
Proposed Arrangement



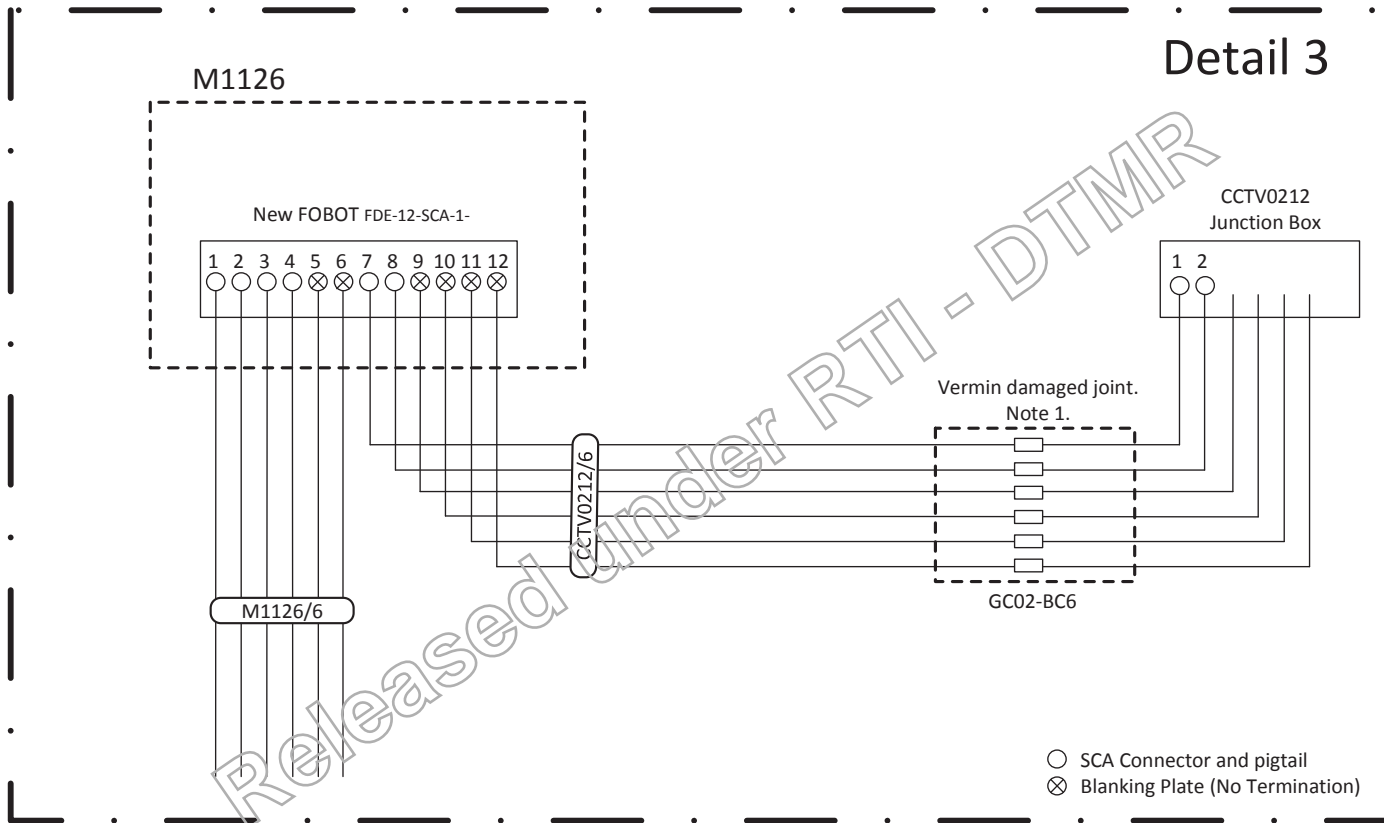
Existing Arrangement



Proposed Arrangement



Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads Metropolitan District			Fibre Modifications CCTV0210 and CCTV0213			Site No.	Queensland Government		
						WGS84											Department of Transport & Main Roads		
					Auxiliary Drawing #:					Reference Points			Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (PECO)	Contract No.	
										Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Colin Otto				Drawing No.	A
A		Original Issue A3						Dimensions shown in millimetres except where shown										Series No.	1 of 1



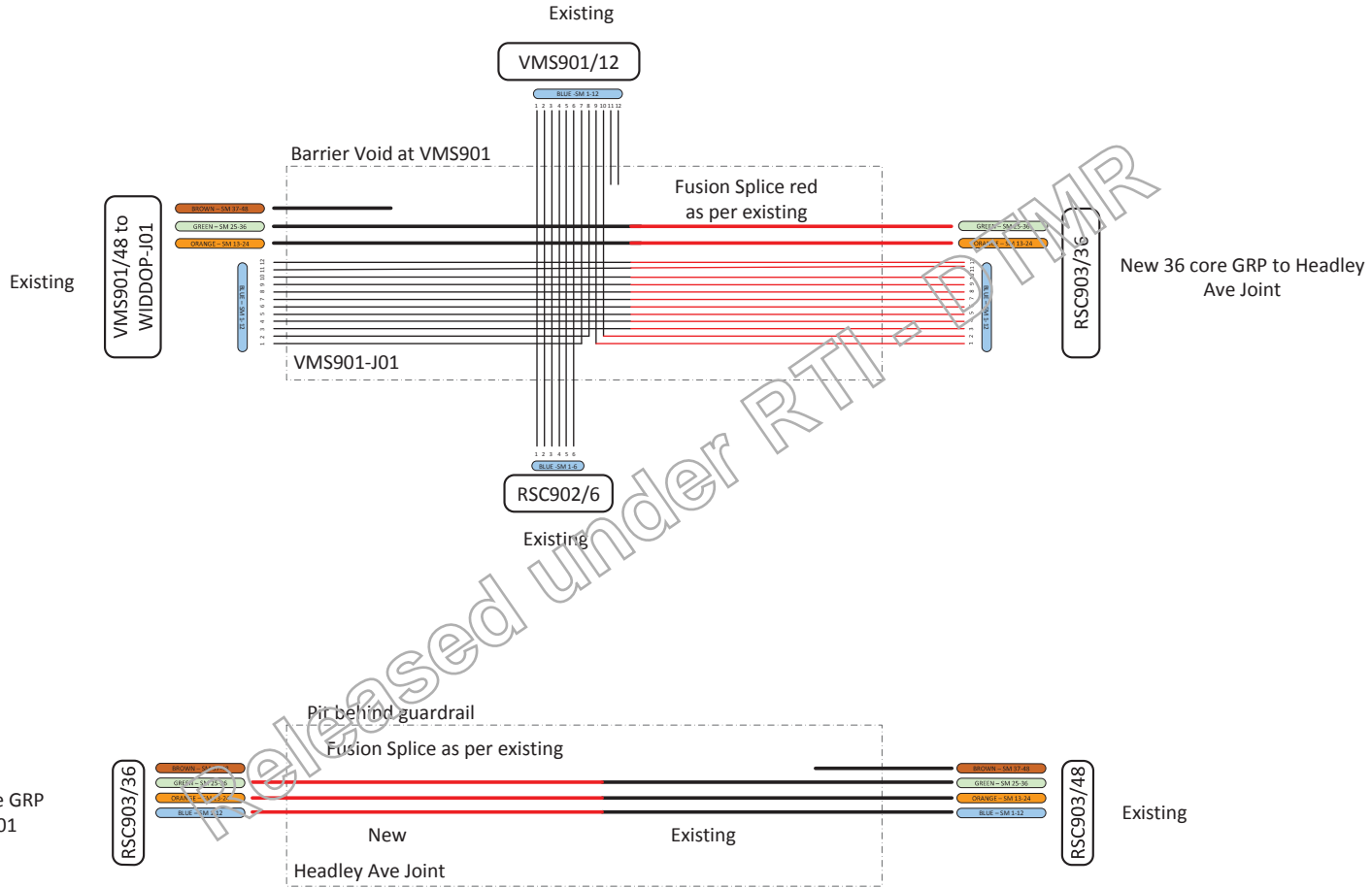
Note 1. If cable is replaced to M1126, Joint shall be omitted.

Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				Site No.	 Queensland Government Department of Transport & Main Roads	
						Horiz. Datum	WGS84		Metropolitan District						M1126 FOBOT Termination
					Auxiliary Drawing #:	Survey Books		Dimensions shown in millimetres except where shown otherwise	Reference Points				Drawn by Colin Otto 31/07/2018	Drawing Checked Design Verified Design Review	Engineering Certification (RPEC) 1 of 1
A		Original Issue A3				Classification	Security-In-Confidence		Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP			
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	Tube	Cores	FOBOT	Start		End		Comment	Cores to OTDR	Cores to LSPM
				Tray	Port	Cabinet	Port			
Inner Wrap	Blue	1-12	FOTRBH-FOJ401 Core 1 to 96	1	1-12			Not required	0	0
	Orange	13-16	FOTRBH-FOJ401 Core 1 to 96	2	1-4	VMS902	B/17-20	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	4	4
		17-24	FOTRBH-FOJ401 Core 1 to 96	2	5-12	RSC906 FOPP2	25-32	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	8	8
	Green	25-36	FOTRBH-FOJ401 Core 1 to 96	3	1-12	MAL196 FOPP1	1-12	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
	Brown	37-48	FOTRBH-FOJ401 Core 1 to 96	4	1-12	MAL196 FOPP1	49-60	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
	Slate	49-60	FOTRBH-FOJ401 Core 1 to 96	5	1-12	MAL196	-	Testing not required. Test by BCC after KSD cable install.	0	0
White	61-72	FOTRBH-FOJ401 Core 1 to 96	6	1-12	MAL196	-	Testing not required. Test by BCC after KSD cable install.	0	0	
Outer Wrap	Blue	73-84	FOTRBH-FOJ401 Core 1 to 96	7	1-12	Nundah Tunnel	13-24	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Orange	85-96	FOTRBH-FOJ401 Core 1 to 96	8	1-12	FOJ902 Orange Tube	Core 85	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Green	97-108	FOTRBH-FOJ401 Core 97 to 192	1	1-12	FOJ902 Green Tube	Core 97	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Brown	109-120	FOTRBH-FOJ401 Core 97 to 192	2	1-12	FOJ902 Brown Tube	Core 109	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Slate	121-132	FOTRBH-FOJ401 Core 97 to 192	3	1-12	FOJ902 Slate Tube	Core 121	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	White	133-144	FOTRBH-FOJ401 Core 97 to 192	4	1-12	FOJ902 White Tube	Core 133	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Red	145-156	FOTRBH-FOJ401 Core 97 to 192	5	1-12	FOJ902 Red Tube	Core 145	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Black	157-168	FOTRBH-FOJ401 Core 97 to 192	6	1-12	FOJ902 Black Tube	Core 157	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Yellow	169-180	FOTRBH-FOJ401 Core 97 to 192	7		KSD Cable	TBA	Testing not required. Test by BCC after KSD cable install.	0	0
	Violet	181-192	FOTRBH-FOJ401 Core 97 to 192	8		KSD Cable	TBA	Testing not required. Test by BCC after KSD cable install.	0	0
			VMS901		A/1-6	RSC902	A/1-6	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	6	6
			VMS901		A/7-8	RSC908/VMS902	B/15-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			VMS901		A/9-10	RSC903	B/13-14	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			RSC906	FOPP2	13-14	RSC903	B/15-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			RSC906	FOPP2	15-16	RSC908/VMS902	B/13-14	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			RSC906	FOPP2	1-12	MAL196 FOPP1	25-36	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
			RSC906	FOPP2	33-36	CS515A FPP1	13-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	4	4
			CS515	FPP1	1-12	CS515A FPP1	1-12	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
			RSC906	FOPP2	D/37-42	M1210	1-6	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables.	0	0
			RSC906	FOPP2	D/43-48	Nundah Tunnel (pit above tunnel)	7-12	Splice pigtail onto Core 7 and Bidirectional OTDR with 1000m launch/receive cables.	0	0
			M1210	N/A	7-12	Nundah Tunnel (pit above tunnel)	1-6	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables.	0	0
Total									78	78

FOBOT	Start		End		Comment	Cores to OTDR	Cores to LSPM
	Tray	Port	Cabinet	Port			
FOTRBH-FOJ401	2	5-12	RSC906 FOPP2	25-32	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	8	8
VMS901		A/1-6	RSC902	A/1-6	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	6	6
VMS901	N/A	A/7-8	RSC908/VMS902	B/15-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
VMS901	N/A	A/9-10	RSC903	B/13-14	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
RSC906	FOPP2	33-36	CS515	1-4	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	4	4
RSC906	FOPP2	D/37-48	Nundah Tunnel	Unterminated	One way OTDR from RSC906 only	12	0
Total						34	22

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Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				East West Arterial Repair				Site No.	 Department of Transport & Main Roads	
						Horiz. Datum	WGS84		Metropolitan District									Contract No.	
B		Issued for Construction	CO	19/03/2019	Auxiliary Drawing #:	Survey Books		Reference Points				Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEG)	A		
A		Original Issue A3			Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise				Colin Otto				C Otto 12762	Series No. 1 of 1			
Visio Files																			





Legend

Unsure of route from P309 to P702 Hoyland St

P19-P309 Splice

P18

P17-P603

P16-P604

P14-P606 Splice

P15-P605

M2133

TMR003 - 487 P606 Splice to P309 Splice
TMR004 - P606 Splice to M2133

Released under RTI - DTMR

Google Earth

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50 m

Webby's Pty Ltd

Tax Invoice

"The Cabling Specialists"

10 Sundown Court Cashmere Qld 4500
 Ph: 07 32663040 www.webbys.net.au
 Account Enquiries: tony@webbys.net.au
 ACN: 106 353 735 ABN: 38 106 353 735

Bill To:

Dept Transport & Main Roads Road Tek
 Brisbane Ops
 Department of Transport and Main Roads
 P.O Box 309

Invoice to:

Dept Transport & Main Roads Road Tek
 Brisbane Ops
 Department of Transport and Main Roads
 P.O Box 309

P/O	P/O Albert	Invoice #: 00006630	19/09/2018		
QTY.	DESCRIPTION	PRICE	UNIT	Ex GST	CODE
1	Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value				
Please note terms are strictly 30 Days from invoice date unless agreed in writing: This is a payment claim made under the "Building and Construction Payments Act 2004 QLD"		SALE		\$2,750.00	
		GST		\$275.00	
		TOTAL INC GST		\$3,025.00	
		PAID		\$0.00	
		BALANCE		\$3,025.00	

Please make your EFT payment to
 Commonwealth Bank
 Account Name: Webby's Pty Ltd
 BSB: 064171

TOTAL DUE \$3,025.00

Accounts are monitored by Active Credit Services

Account number: 1023 4645

Webby's Pty Ltd

Tax Invoice

"The Cabling Specialists"

10 Sundown Court Cashmere Qld 4500
Ph: 07 32663040 www.webbys.net.au
Account Enquiries: tony@webbys.net.au
ACN: 106 353 735 ABN: 38 106 353 735

Bill To:

Dept Transport & Main Roads Road Tek
Brisbane Ops
Department of Transport and Main Roads
P.O Box 309

Invoice to:

Dept Transport & Main Roads Road Tek
Brisbane Ops
Department of Transport and Main Roads
P.O Box 309

P/O	P/O 2030529681	Invoice #: 00006842	30/06/2019			
QTY.	DESCRIPTION	PRICE	UNIT	Ex GST	CODE	
1	Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value					
Please note terms are strictly 30 Days from invoice date unless agreed in writing: This is a payment claim made under the "Building and Construction Payments Act 2004 QLD"			SALE		\$3,800.00	
			GST		\$380.00	
			TOTAL INC GST		\$4,180.00	
			PAID		\$0.00	
			BALANCE		\$4,180.00	

Please make your EFT payment to
Commonwealth Bank
Account Name: Webby's Pty Ltd
BSB: 064171

TOTAL DUE \$4,180.00

Accounts are monitored by Active Credit Services

Account number: 1023 4645

Webby's Pty Ltd

Tax Invoice

"The Cabling Specialists"

10 Sundown Court Cashmere Qld 4500
Ph: 07 32663040 www.webbys.net.au
Account Enquiries: tony@webbys.net.au
ACN: 106 353 735 ABN: 38 106 353 735

Bill To:

Dept Transport & Main Roads Road Tek
Brisbane Ops
Department of Transport and Main Roads
P.O Box 309

Invoice to:

Dept Transport & Main Roads Road Tek
Brisbane Ops
Department of Transport and Main Roads
P.O Box 309

P/O	P/O 2030529681	Invoice #: 00006843	30/06/2019
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QTY.	DESCRIPTION	PRICE	UNIT	Ex GST	CODE
1	Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value				

Released under RTI - DTMR

Please note terms are strictly 30 Days from invoice date unless agreed in writing: This is a payment claim made under the "Building and Construction Payments Act 2004 QLD"

SALE	\$3,730.80
GST	\$373.08
TOTAL INC GST	\$4,103.88
PAID	\$0.00
BALANCE	\$4,103.88

Please make your EFT payment to
Commonwealth Bank
Account Name: Webby's Pty Ltd
BSB: 064171

TOTAL DUE \$4,103.88

Accounts are monitored by Active Credit Services

Account number: 1023 4645

GENERAL NOTES

- THE DESIGN AND DETAILS SHOWN ON THESE DRAWINGS ARE APPLICABLE TO THIS PROJECT ONLY AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART OR BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER WITH WHOM THE COPYRIGHT RESIDES.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS, OTHER CONSULTANTS' DRAWINGS, SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATIONS AS DETAILED HERE-IN.
- ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON-SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS ONLY DETAILED DESIGN LAYOUTS WITH CO-ORDINATE REFERENCES TO BE USED.
- ALL SAFETY ON-SITE IS THE BUILDER'S RESPONSIBILITY.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

GENERAL DESIGN CRITERIA FOR SIGN SUPPORT STRUCTURES IN PARTICULAR:

- SWTC / QTRM DESIGN GUIDELINES 2009
 - AS 5100.2 - 2004 BRIDGE DESIGN LOADS
 - AASHTO SECTION II " STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS", 4th Edition WITH INTERIM TO 2006 FOR FATIGUE DESIGNS
 - AS 5100.6 SECTION 13 - FATIGUE
 - AS 1657 - FIXED PLATFORMS & LADDERS ETC.
 - NATURAL VIBRATION FREQUENCY - FIRST MODE > 1Hz
- LOADING.
 - WIND LOADS ARE IN ACCORDANCE WITH AS-1170 AS FOLLOWS
VR = 63 m/s (ARI 2000 years) - Reg. B
VR = 38 m/s (ARI 20 years) - Reg. B
 - DEAD & LIVE LOADS ARE IN ACCORDANCE WITH AS/NZ1170:1:2002 AND C dgm = 0
SWTC 2009.
3 kPa + 5 kN OVER 1m² IN WORST COMBINATION.
 - LIMIT STATE (WL + DL) (LL + DL)
 - BASE PLATE LOADS.

MUX (K/m)	= 325	-
MUZ (K/m)	= 116	272
TORSION (K/m)	= 198	-
AXIAL (KN)	= 42.4	73.6
SHEAR (KN)	= 46.4	-
 - GANTRY DEFLECTIONS (mm) HORIZONTAL VERTICAL

DL ONLY	-	60
DL + LL	-	129
WL + DL	113	60

 DEFLECTION LIMIT ADOPTED FROM SWTC 2009 = 150mm

MASONRY NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3700-2001 - SAA MASONRY CODE.
- BRICKS SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 25 MPa MORTAR TO BE MIXED IN THE PROPORTIONS 1:1:6 CEMENT:HYDRATED LIME:SAND (OR EQUIVALENT SAND/CEMENT MORTAR WITH PLASTICISERS) AND MORTAR COMPRESSIVE STRENGTH AT 28 DAYS TO BE 12 MPa MINIMUM.
- ALL WALLS SUPPORTING SLABS AND BEAMS SHALL HAVE TWO LAYERS OF MALTHOID LAID ON 10mm LEVEL BED BETWEEN THE CONCRETE AND MASONRY U.N.O.
- ALL BRICKWORK SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN CONCRETE.
- REINFORCED CONCRETE BLOCKWORKS SHALL COMPLY WITH THE FOLLOWING U.N.O.:
 - BLOCKS SHALL BE STRENGTH GRADE 12 CONFORMING TO AS1500.
 - MORTAR SHALL COMPRISE 1:0.25:3 - CEMENT:LIME: SAND
 - MORTAR COMPRESSIVE STRENGTH AT 28 DAYS TO BE 11 MPa MINIMUM.
 - PROVIDE CLEAN OUT HOLES AT BASE OF ALL WALLS AND ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINIS.
 - CORE FILLING GROUT TO BE F'C = 32 MPa, 10mm AGGREGATE, 230mm SLUMP +/- 30mm.
 - CORE FILL IN MAXIMUM 1800mm HIGH LIFTS, OR AS APPROVED BY ENGINEER.
 - PROVIDE 65mm COVER TO REINFORCEMENT FROM THE OUTSIDE OF THE BLOCKWORK TO ALLOW ADEQUATE GROUT COVER.
- PROVIDE VERTICAL CONTROL JOINTS AT 10m MAXIMUM CENTERS.
- BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN OR WEEP HOLES.

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110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS QUALITY AND TESTING SHALL BE IN ACCORDANCE WITH AS3600-2009 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
 - CONCRETE MRTS 70.
 - REINFORCING STEEL MRTS 71.
- CONCRETE QUALITY
THE CHARACTERISTIC COMPRESSIVE STRENGTH AND SLUMP OF THE CONCRETE MUST NOT BE LESS THAN THE VALUE REQUIRED UNDER PSTS ABOVE OR THE FOLLOWING MINIMUM CRITERIA:

ELEMENT	F'C MPa (28 days)	SLUMP mm	AGGREGATE SIZE mm
SLABS	40 MIN.	80 MAX.	20
PIERS & FOOTINGS	40 MIN.	80 MAX.	20

 PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3600.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- ALL REINFORCEMENTS SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.
- CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS WHERE INDICATED SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF AIR POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY APPLICATION OF AN APPROVED CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED.
- ALL REINFORCING TO BE INSPECTED BY THE ENGINEER AND/OR A SUITABLY QUALIFIED PERSON. INSPECTIONS SHOULD BE ARRANGED A MINIMUM OF 48 HOURS PRIOR TO POUR. CONCRETE SHALL NOT BE PLACED UNTIL REINFORCEMENT INSPECTED AND WRITTEN APPROVAL OBTAINED.
- CONDUITS, PIPES ETC., SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB OR PIER AND SPACED AT NOT LESS THAN 4 DIAMETERS APART.
- REINFORCEMENT SYMBOLS:
N DENOTES NORMAL DUCTILITY GRADE B500 LL TO AS/NZS4671
R DENOTES GRADE 230R HOT ROLLED PLAIN BARS TO AS1302
SLD DENOTES HARD-DRAWN DEFORMED REINFORCED FABRIC TO AS1304
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- WELDING OR BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- SLAB FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm.
- TRENCH MESH SHALL BE SPLICED, WHERE NECESSARY, BY A MINIMUM LAP OF 800mm.
- THE LAP LENGTH OF BAR SPLICES SHALL NOT BE LESS THAN 800mm OR 25 BAR DIAMETERS WHICHEVER IS THE GREATER.
- CLEAR CONCRETE COVER TO REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

EXPOSURE	CONCRETE COVER
CAST AGAINST GROUND	80mm
EXTERNAL EXPOSED SURFACE	60mm
INTERNAL EXPOSED SURFACE	45mm
- ALL REINFORCING SHALL BE ACRS CERTIFIED.

STEELWORK NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS5100 - BRIDGE DESIGN, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS AS NOTED BELOW. STRUCTURAL STEEL SHALL ONLY BE CARRIED OUT BY A MAIN ROADS APPROVED FABRICATOR.
 - MRTS 78 NOV 2009 - FABRICATION OF STRUCTURAL STEELWORK APPLICABLE STANDARD SWTC 2009
- UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS/NZS3679:1 GRADE 300 OR GREATER.
- ALL BOLTS - SUPPLIED IN ACCORDANCE WITH MRTS 78 AND TO COMPLY WITH:

STANDARDS

 - 4.6/S COMMERCIAL BOLTS OR GRADE 4.6 TO AS1111 - SNUG TIGHTENED
 - 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 - SNUG TIGHTENED.
 - 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 - FULLY TENSIONED TO AS1511 AS A BEARING JOINT.
 - 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 - FULLY TENSIONED TO AS1511 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.

PROCEDURES

 - ALL NUTS AND BOLTS TO BE HOT DIP GALVANIZED TO AS1214.
 - NO BENDING OF BOLTS SHALL HAVE LESS THAN 2 BOLTS.
 - TB AND TF BOLTS TO BE INSTALLED USING APPROVED LOAD INDICATING WASHERS
 PLATE TO COMPLY WITH AS/NZS3678.
- BOLTING PROCEDURES FOR T/BOLT/F CONNECTIONS DEFINED IN HIGH STRENGTH BOLTS & NUTS. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE MINIMUM 6mm FULL PENETRATION BUTT WELDS TYPE SP USING HYDROGEN CONTROLLED E49XX / W503 ELECTRODES - BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS TO AS1554.
- CHS, RHS AND SHS TO THE REQUIREMENTS OF AS/NZS1163 SHALL BE GRADE C350L0.
- UNLESS NOTED OTHERWISE ALL CLEAT PLATES TO BE MINIMUM 10mm.
- NO CONCRETE ENCASEMENT OF STEELWORK.
- ALL STEELWORK TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS 4680.
- ALLOWANCE TO BE MADE TO BOLT HOLES FOR THE HOT DIP GALVANISING.
- PROVIDE STEEL PLATES TO ALL HOLLOW SECTIONS.
- IT IS THE BUILDERS RESPONSIBILITY THAT ALL STEELWORK BE SECURED THROUGHOUT CONSTRUCTION.
- THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING CLEATS AND OTHER ATTACHMENTS.
- STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT UNLESS OTHERWISE SPECIFIED.

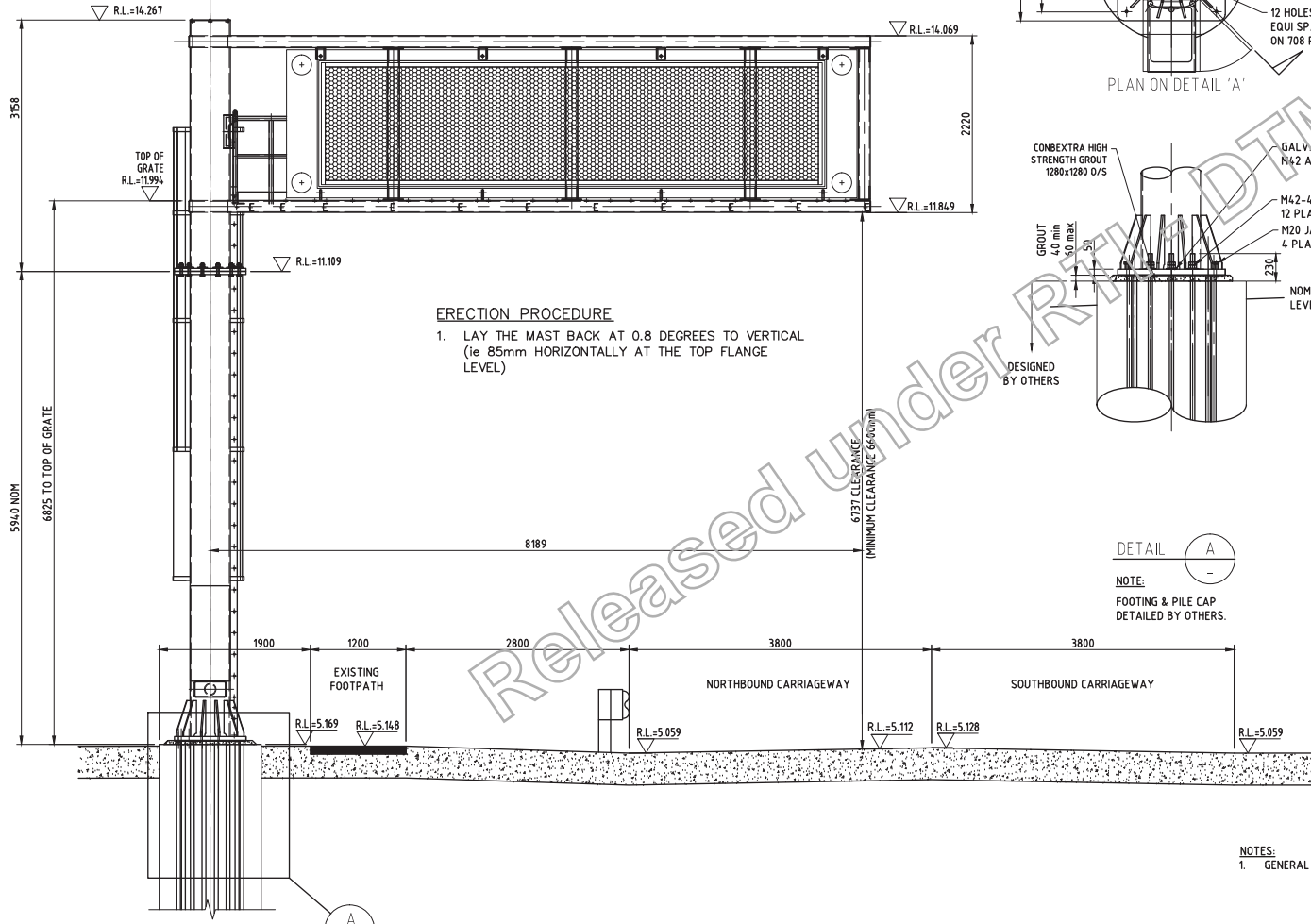
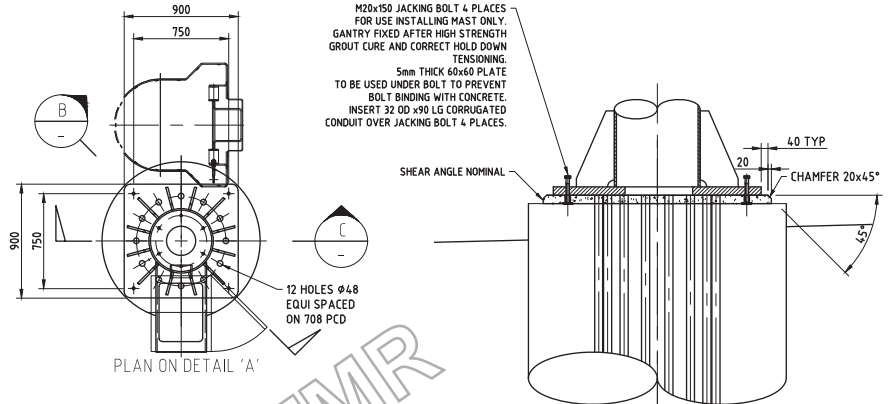
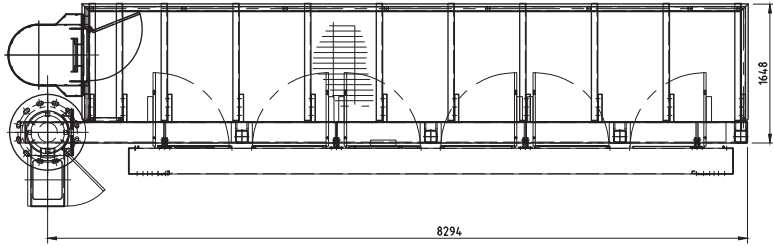
ELEMENT	SURFACE TREATMENT
ALL STEELWORK	HOT DIP GALVANISED.
- FULL LENGTH MEMBERS WITHOUT ANY JOINS SHALL ONLY BE USED.

FOUNDATION NOTES

- FOUNDATION INVESTIGATION TO INFORM FOOTING DESIGN - SEE GEOTECHNICAL REPORT.
- FOOTINGS DETAILED BY OTHERS.

ISSUED FOR CONSTRUCTION

National Professional Engineers Register Mr Geoff Hamilton - GH Consultant Engineers BE, Meng, MIE, NPER-3 Civil & Structural Registered Professional Engineer Qld RPEQ 2143 Signature: _____ Date: 05/06/2014 Certification for Structural Design Only Dated: 12/06/2014	NOTE THIS DOCUMENT CONTAINS INTELLECTUAL PROPERTY THAT IS OWNED BY J1 LED INTELLECTUAL TRANSPORT SYSTEMS. ANY USE OR DISTRIBUTION OF THIS DOCUMENT OR INFORMATION CONTAINED WITHIN IS PROHIBITED WITHOUT THE EXPRESS PERMISSION OF J1 LED INTELLECTUAL TRANSPORT SYSTEMS.	J1-LED ITS PTY LTD 2/57-59 STEEL STREET CAPALABA QLD 4157 PH. 1300 88 44 73 ABN 13 141 424 191	SCALE NTS	GAL VMS B LEMKE ROAD
			APPR. CHECK DATE NAME DRAWN 27/06/13 AJV	VMS TYPE B GENERAL NOTES JT-C-1044-ME-022
J1-LED THIRD ANGLE			FILENAME	SHEETS



ERECTION PROCEDURE
 1. LAY THE MAST BACK AT 0.8 DEGREES TO VERTICAL (ie 85mm HORIZONTALLY AT THE TOP FLANGE LEVEL)

NOTE:
 FOOTING & PILE CAP
 DETAILED BY OTHERS.

NOTES:
 1. GENERAL DESIGN ONLY. FOOTING DETAILED BY OTHERS.

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HEIGHT REF TABLE	
UNDERSIDE OF SIGN	11.849
ROAD R.L.	5.112
CLEARANCE	6.737

National Professional Engineers Register
 Mr Geoff Hamilton - GH Consultant Engineers
 BE, MENG, MIE, NPER-3 Civil & Structural
 Registered Professional Engineer Qld RPEQ 2143
 Signature: _____ Date: 05/06/2014
 Certification for Structural Design Only
 Dated: 12/06/2014

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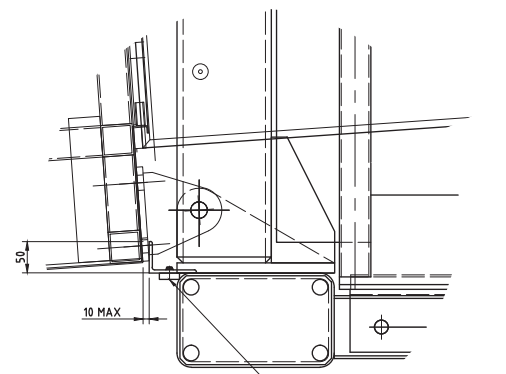
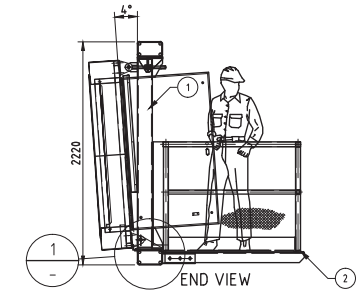
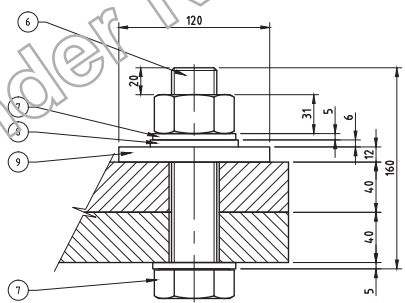
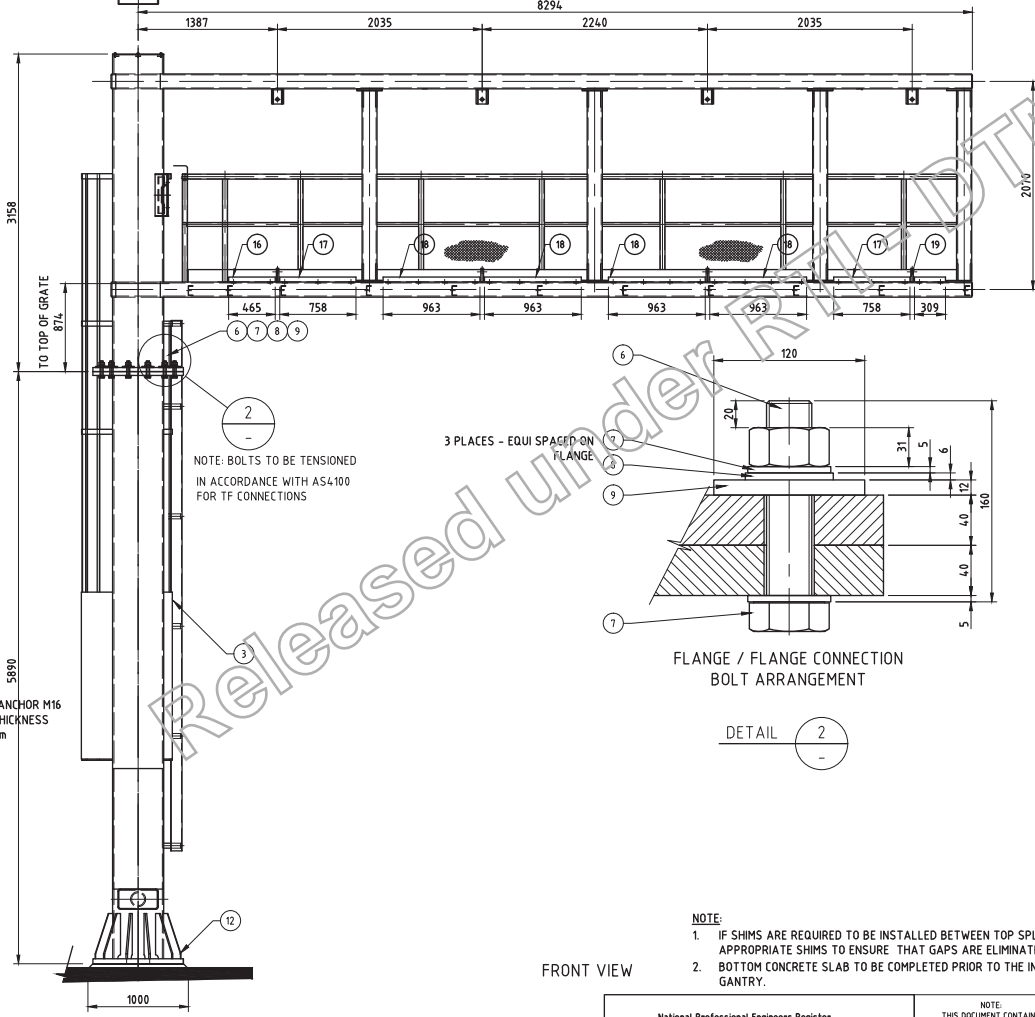
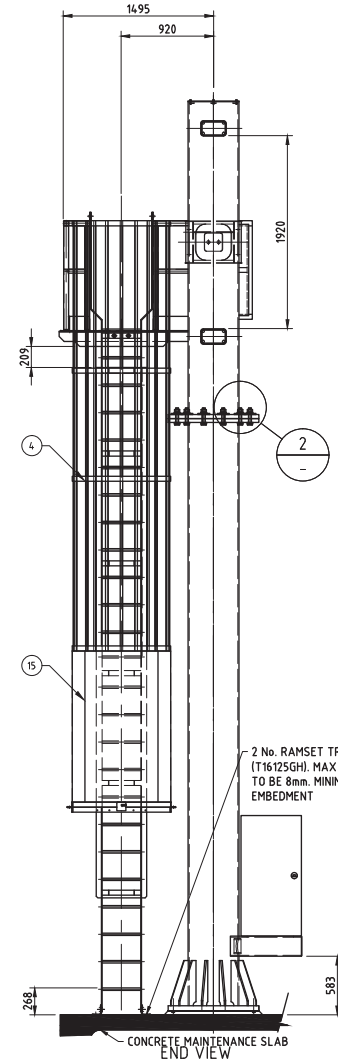
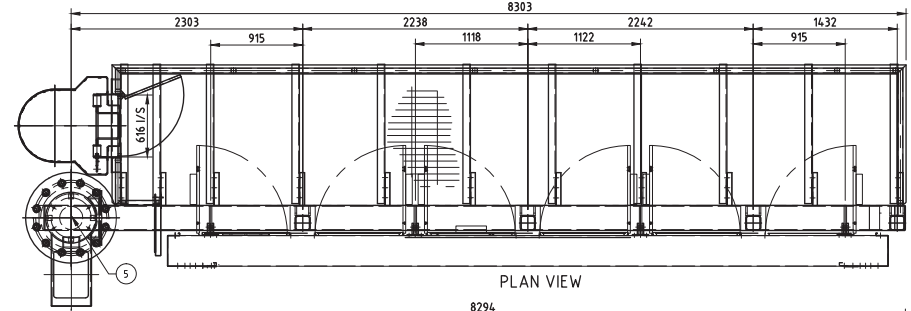
J1-LED ITS PTY LTD
 2/57-59 STEEL STREET
 CAPRALABA QLD 4157
 PH. 1300 88 44 73
 ABN 13 141 426 191

APPR.	DATE	NAME
CHECK		
DRAWN	W/W/B	AJV

SCALE NTS	
GAL VMS B LEMKE ROAD	
VMS TYPE B	
SITE LAYOUT	
JT-C-1044-MC-023	REV 02

ISSUED FOR CONSTRUCTION

MATERIAL LIST - THIS PAGE ONLY			
ITEM No.	QTY	DESCRIPTION	DRG No.
1	1	GANTRY DETAIL	JT-C-1044-MA-025
2	1	ACCESSWAY DETAIL	JT-C-1044-MA-026
3	1	COLUMN DETAIL	JT-C-1044-MA-027
4	1	LADDER DETAIL	JT-C-1044-MA-028
5	1	FABRICATION DETAIL	JT-C-1044-MB-029
6	12	M36x160 BOLT & NUT 8.8/TF THREAD 72mm	GALVANIZED
7	24	M36 FLAT WASHER	GALVANIZED
8	3	M36 LOAD INDICATING WASHER	GALVANIZED
9	12	PLATE WASHER 120 x 90 x 12 THICK Ø40 HOLE ON CENTRE	GALVANIZED
12	4	M20x150 JACKING BOLT GRADE 4.6, C/W FLAT WASHER	GALVANIZED
15	1	ANTI CLIMB GUARD	JT-C-1044-MB-030
16	1	GUARD ANGLE 75x50x5 UA x465 LONG	GALVANIZED
17	2	GUARD ANGLE 75x50x5 UA x758 LONG	GALVANIZED
18	4	GUARD ANGLE 75x50x5 UA x963 LONG	GALVANIZED
19	1	GUARD ANGLE 75x50x5 UA x309 LONG	GALVANIZED



NOTE: BOLTS TO BE TENSIONED IN ACCORDANCE WITH AS4100 FOR TF CONNECTIONS

3 PLACES - EQUI SPACED ON FLANGE

2 No. RAMSET TRUBOLT ANCHOR M16 (T16125GH), MAX FIXED THICKNESS TO BE 8mm, MINIMUM 90mm EMBEDMENT

- NOTE:
- IF SHIMS ARE REQUIRED TO BE INSTALLED BETWEEN TOP SPLICE PLATES INSERT APPROPRIATE SHIMS TO ENSURE THAT GAPS ARE ELIMINATED.
 - BOTTOM CONCRETE SLAB TO BE COMPLETED PRIOR TO THE INSTALLATION OF THE GANTRY.

LUG (22) CTR'S NO GREATER THAN 50mm FROM EACH END OF ANGLE PIECES. LUGS ALSO SPACED NOMINALLY AT 300mm ALONG FULL LENGTH OF ANGLE PIECES. REFER JT-C-1044-MA-025

AFFIX ANGLE PIECES WITH M6x1PXX22.0 HEX WASHER 6x TEKS.

ISSUED FOR CONSTRUCTION

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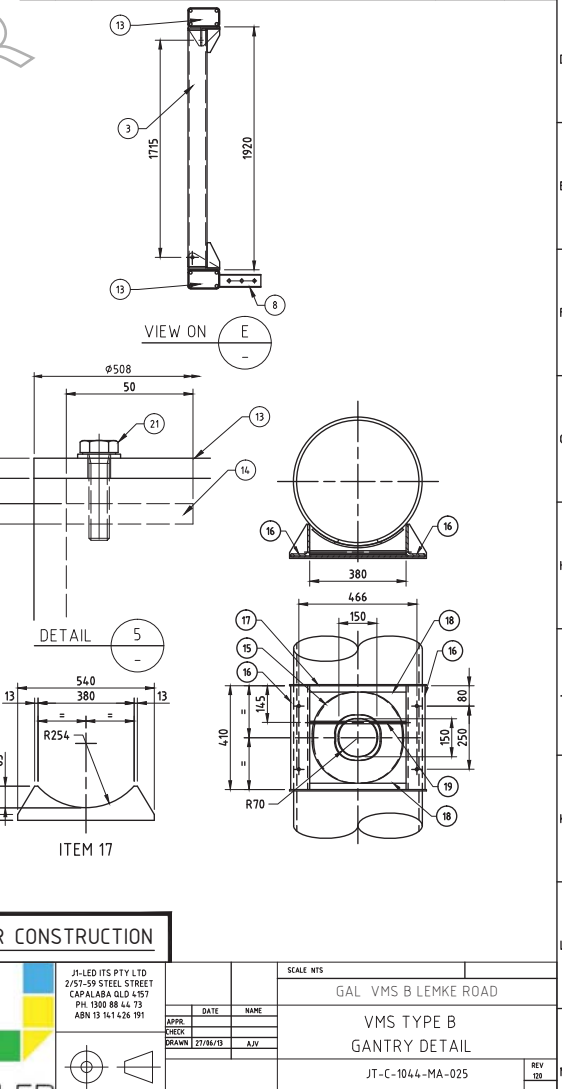
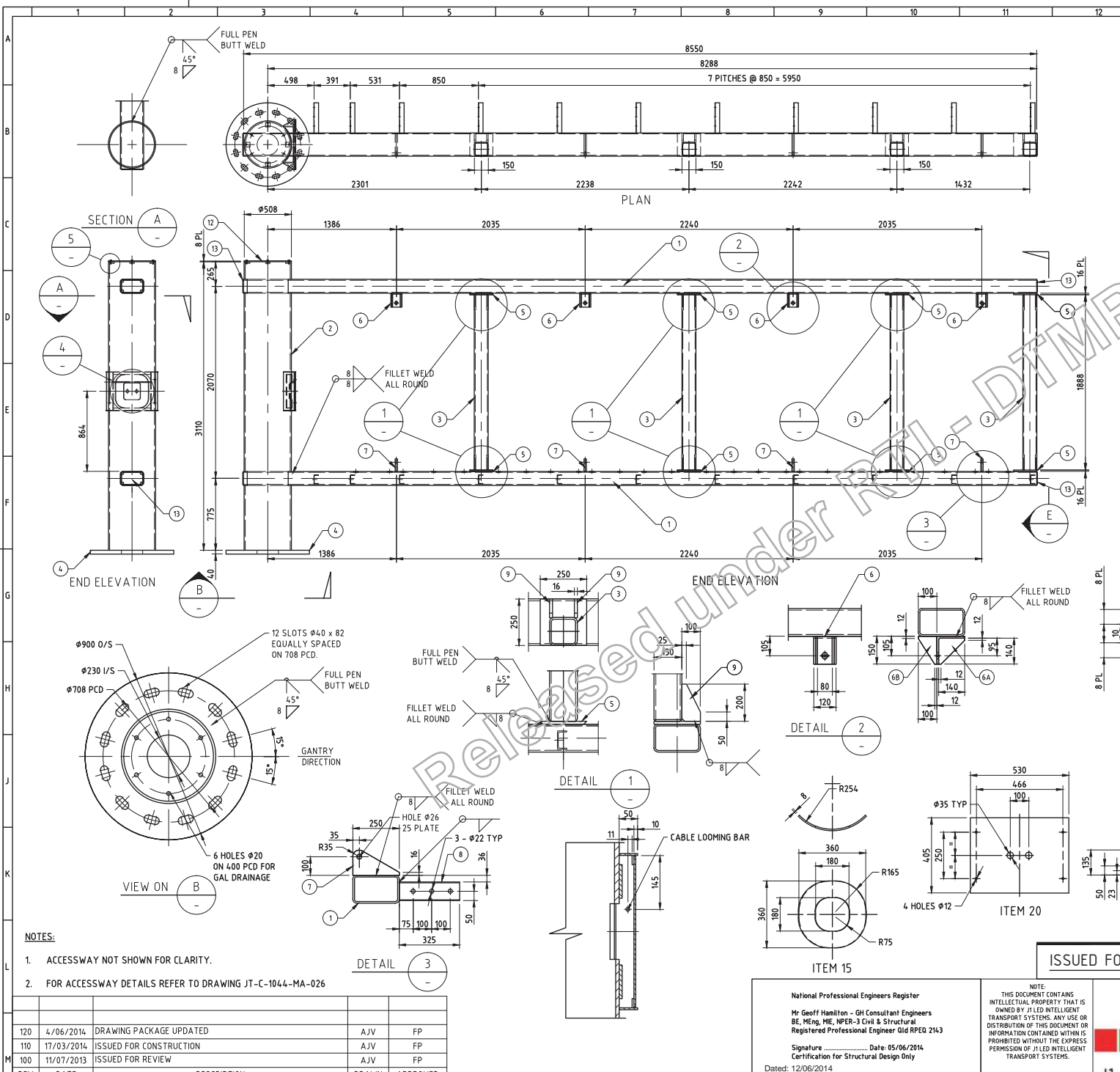
National Professional Engineers Register
 Mr Geoff Hamilton - GH Consultant Engineers
 BE, MEng, MIE, NPER-3 Civil & Structural
 Registered Professional Engineer Old RPEQ 2143
 Signature: _____ Date: 05/06/2014
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J1-LED ITS PTY LTD
 2/57-59 STEEL STREET
 CAPALABA QLD 4157
 PH: 1300 88 44 73
 ABN 13 14 126 191

SCALE NTS
 GAL VMS B LEMKE ROAD
 VMS TYPE B
 SUPPORT STRUCTURE
 JT-C-1044-MA-024
 REV 122

MATERIAL LIST - THIS PAGE ONLY				
ITEM	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	2	RHS 250x150x9 x 855LG	AS1163-C350L0	1482.75
2	1	CHS 508 O.D. x 12.7 x 310 LG	AS1163-C350L0	349.96
3	4	SHS 150x9 x 1888 LG	AS1163-C350L0	279.56
4	1	FLANGE PLATE 900 O.D. x 280 I.D. x 40 THICK	AS3678-350	145.28
5	8	BASE PLATE 250x250 x 16 THK	AS3678-350	96.08
6	4	ADJUSTMENT BRACKET EA 150x10 x 120 LG	AS3679-1-300	16.00
6A	8	GUSSET 10 PLATE 140x140	AS3678-350	3.1
6B	8	GUSSET 10 PLATE 150x100	AS3678-350	3.1
7	4	CLEVIS PLATE 250x135 x 25 THICK	AS3678-350	12.00
8	11	PPC 100x50 x 325 LG	AS3679-1-300	30.00
9	16	GUSSET PLATE 100x200 x16 THK	AS3678-350	52.24
12	1	CLOSING PLATE 508 O.D. x 8 THK REFER FABRICATION DETAIL JT-C-1044-MB-029	AS3678-250	19.30
13	4	CLOSING PLATE 240x140x8	AS3678-250	12.66
14	4	BRACKET 50x50 x 8 THICK REFER FABRICATION DETAIL JT-C-1044-MB-029	AS3678-350	2.00
15	1	COMPENSATING PLATE 360x360 x 6 THK	AS3678-250	3.00
16	2	100x75x8 UA x 40 LG	AS3679-1-300	6.50
17	2	END PLATE 540x135 x 5 THK	AS3678-250	2.50
18	2	25x5 FLAT BAR x 380 LG	AS3679-1-300	0.60
19	1	Ø16 ROUND BAR x 380 LG	AS3679-1-300	0.50
20	1	COVER PLATE 530x405 x 6 THK	AS3678-250	6.00
21	4	W/HEAD BOLT 1 M10x35 LG C/W - NUT & WASHERS	OR 4.6 GALV	1.00
22	26	LUG 32x10 x 30 LG - REFER ARRANGEMENT DETAIL JT-C-1044-MA-024	OR 4.6 GALV	3.00
			TOTAL MASS	2502.03



- NOTES:
- ACCESSWAY NOT SHOWN FOR CLARITY.
 - FOR ACCESSWAY DETAILS REFER TO DRAWING JT-C-1044-MA-026

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

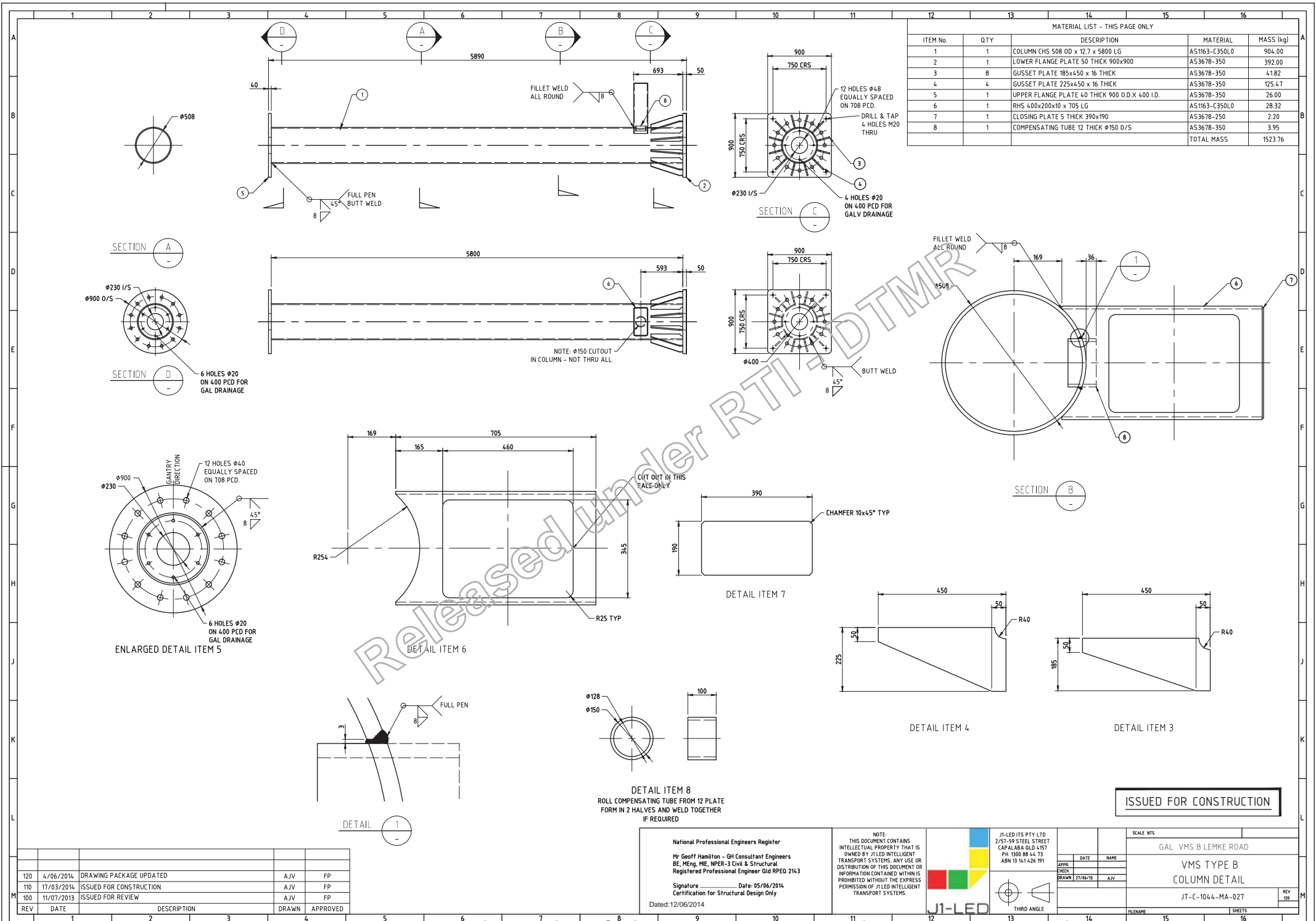
National Professional Engineers Register
 Mr Geoff Hamilton - GH Consultant Engineers
 BE, Meng, MIE, NPER-3 Civil & Structural
 Registered Professional Engineer Qld RPEQ 2143
 Signature: _____ Date: 05/06/2014
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J1-LED ITS PTY LTD
 2/57-59 STEEL STREET
 CAPALABA QLD 4157
 PH: 1800 88 44 73
 ABN 13 141 424 191

SCALE NTS		
GAL VMS B LEMKE ROAD		
VMS TYPE B GANTRY DETAIL		
JT-C-1044-MA-025		
APPR. CHECK	DATE	NAME
DRAWN	27/01/13	AJV
FILENAME	SHEETS	

ISSUED FOR CONSTRUCTION



MATERIAL LIST - THIS PAGE ONLY

ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	1	COLUMN CHS 508 OD x 12.7 x 5800 LG	AS1163-C350L0	904.00
2	1	LOWER FLANGE PLATE 50 THICK 900x900	AS3678-350	392.00
3	8	GUSSET PLATE 185x450 x 16 THICK	AS3678-350	4182
4	4	GUSSET PLATE 225x450 x 16 THICK	AS3678-350	125.47
5	1	UPPER FLANGE PLATE 40 THICK 900 O.D.X 400 I.D.	AS3678-350	26.00
6	1	RHS 400x200x10 x 705 LG	AS1163-C350L0	28.32
7	1	CLOSING PLATE 5 THICK 390x190	AS3678-250	2.20
8	1	COMPENSATING TUBE 12 THICK 150 O/S	AS3678-350	3.95
		TOTAL MASS		1523.76

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
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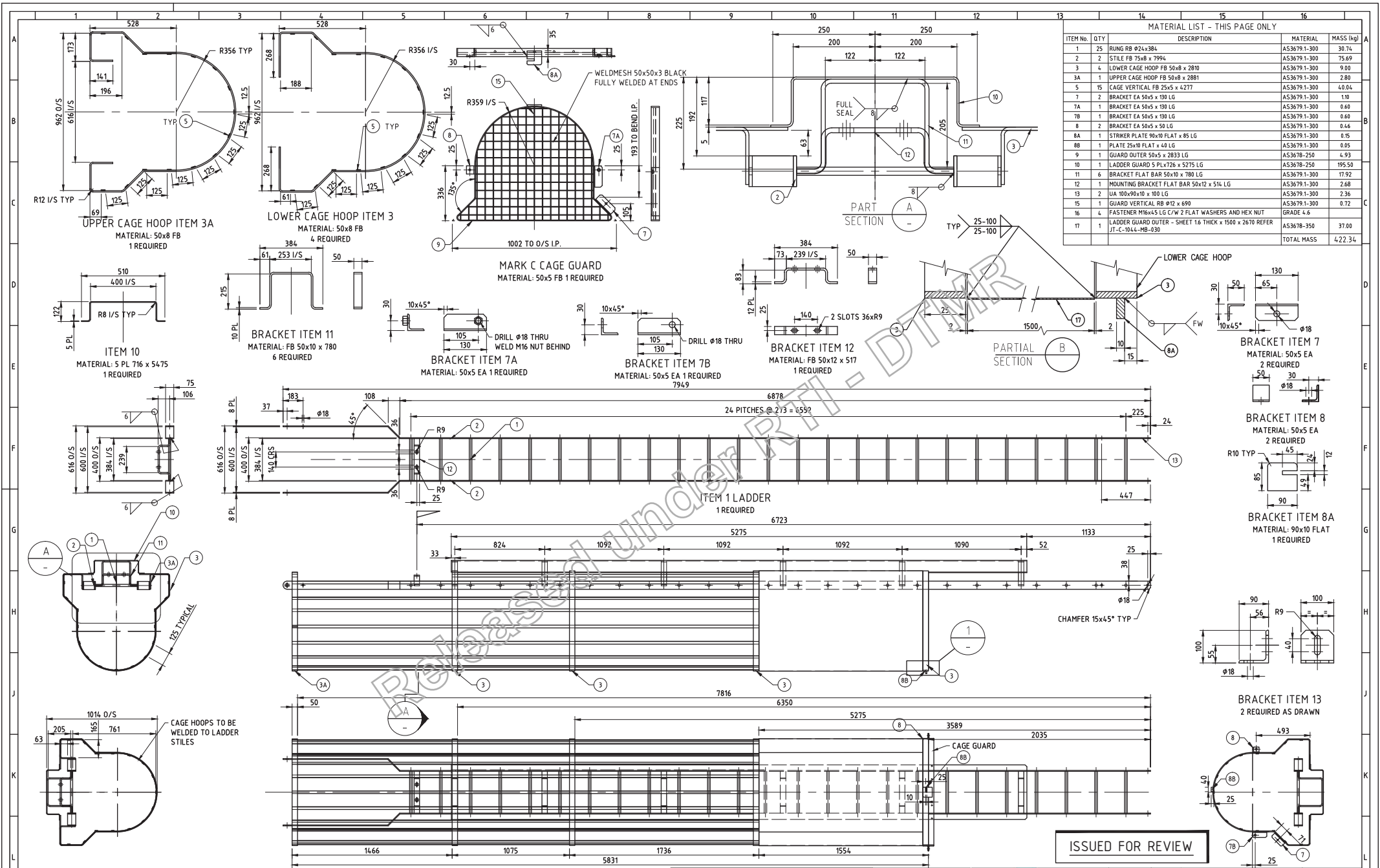
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APPR.	CHECK	DATE	NAME

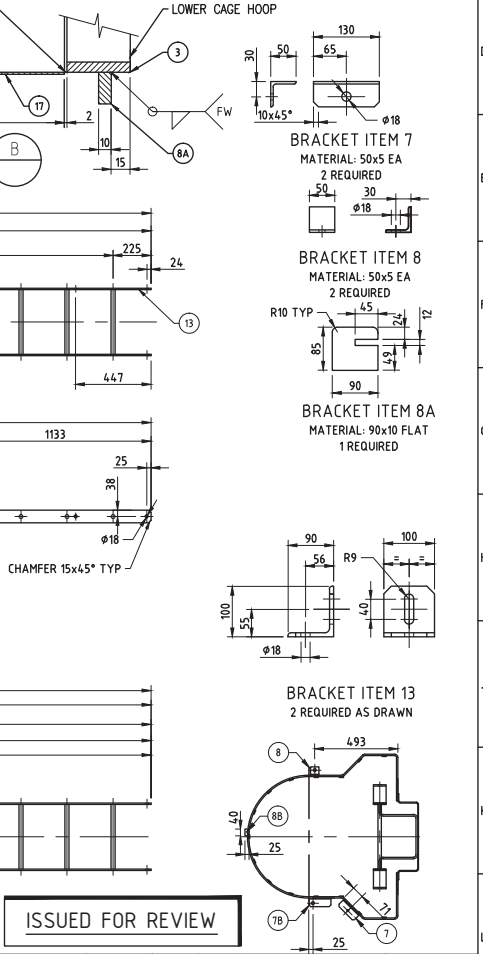
ISSUED FOR CONSTRUCTION

SCALE NTS	
GAL VMS B LEMKE ROAD	
VMS TYPE B COLUMN DETAIL	
JT-C-1044-MA-027	
FILENAME	SHEETS



MATERIAL LIST - THIS PAGE ONLY

ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	25	RUNG RB 92x384	AS36791-300	30.76
2	2	STILE FB 75x8 x 7994	AS36791-300	75.69
3	4	LOWER CAGE HOOP FB 50x8 x 2810	AS36791-300	9.00
3A	1	UPPER CAGE HOOP FB 50x8 x 2881	AS36791-300	2.80
5	15	CAGE VERTICAL FB 25x5 x 4277	AS36791-300	4.04
7	2	BRACKET EA 50x5 x 130 LG	AS36791-300	1.10
7A	1	BRACKET EA 50x5 x 130 LG	AS36791-300	0.60
7B	1	BRACKET EA 50x5 x 130 LG	AS36791-300	0.60
8	2	BRACKET EA 50x5 x 50 LG	AS36791-300	0.46
8A	1	STRIKER PLATE 90x10 FLAT x 85 LG	AS36791-300	0.15
8B	1	PLATE 25x10 FLAT x 40 LG	AS36791-300	0.05
9	1	GUARD OUTER 50x5 x 7833 LG	AS3678-250	4.93
10	1	LADDER GUARD 5 PLx726 x 5275 LG	AS3678-250	195.50
11	6	BRACKET FLAT BAR 50x10 x 780 LG	AS36791-300	17.92
12	1	MOUNTING BRACKET FLAT BAR 50x12 x 514 LG	AS36791-300	2.68
13	2	UA 100x90x10 x 100 LG	AS36791-300	2.36
15	1	GUARD VERTICAL RB 12 x 690	AS36791-300	0.72
16	4	FASTENER M8x45 LG C/W 2 FLAT WASHERS AND HEX NUT GRADE 4.6	AS3678-350	37.00
17	1	LADDER GUARD OUTER - SHEET 1.6 THICK x 1500 x 2670 REFER JT-C-1044-MB-030		
TOTAL MASS				4,222.34



REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
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100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

NOTES
 1. WELDS TO BE CONTINUOUS 6mm FILLET U.N.O.

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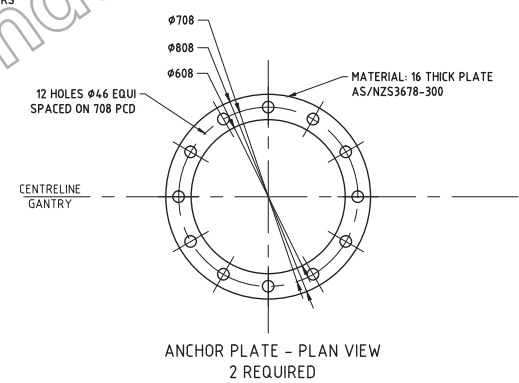
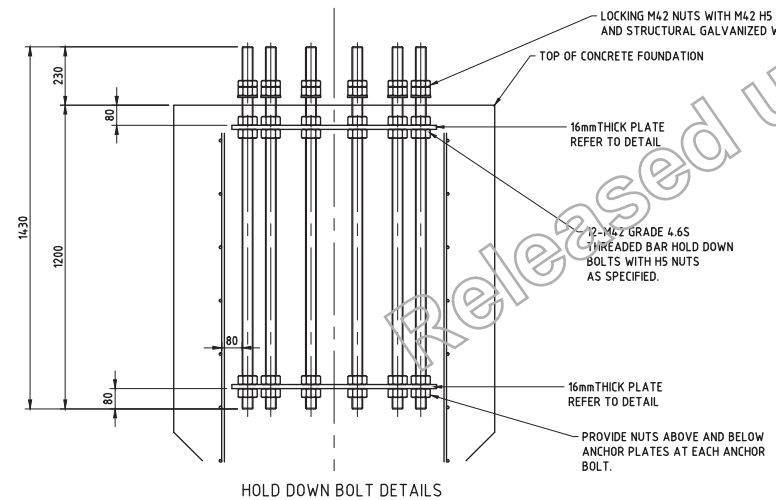
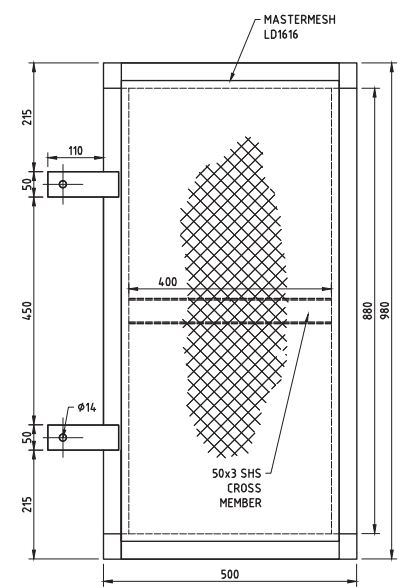
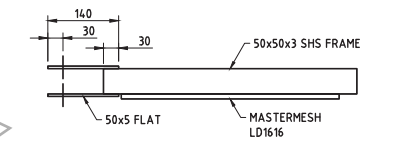
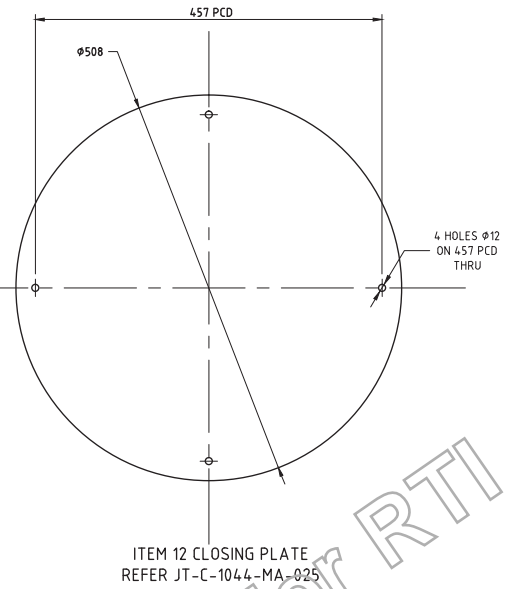
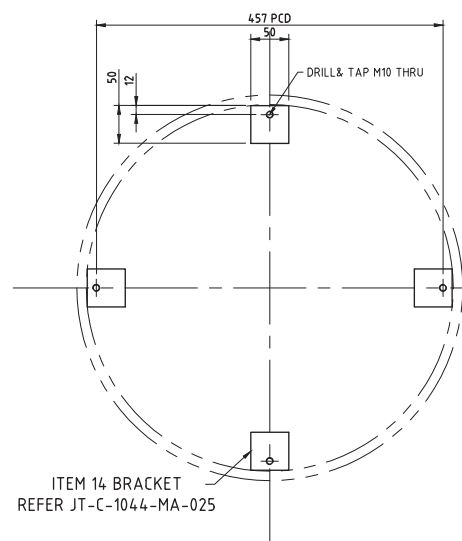
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SCALE NTS		DATE		NAME	
APPR.	CHECK				
DRAWN		17/07/12		AD	
GAL VMS B LEMKE ROAD				VMS TYPE B LADDER DETAIL	
JT-C-1044-MA-028				REV	028
FILENAME				SHEETS	

MATERIAL LIST				
ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
12	1	CLOSING PLATE 508 O.D. x 8 THICK	AS 3678-250	12.87
14	4	BRACKET 50x50 x 8 THICK	AS 3678-350	2.00
22	1	SAFETY GUARD	AS 3678-350	17
TOTAL MASS				14.87



BASE PLATE LOADS.			
LIMIT STATE	(WL + DL)	(LL + DL)	
-MUX	(KNm) = 325	-	
-MUZ	(KNm) = 116	272	
-TORSION	(KNm) = 198	-	
-AXIAL	(KN) = 42	73.6	
-SHEAR	(KN) = 47	-	

- HOLD DOWN BOLTS NOTES:**
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH MRTS78.
 - UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS/NZS3679.1 GRADE 250 OR GREATER.
 - NUTS AND BOLTS TO BE HOT DIPPED GALVANIZED TO AS4680:2006.

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
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 PH. 1300 88 44 73
 ABN 13 141 424 191

APPR.	DATE	NAME
CHECK		
DRAWN	17/07/12	AD

ISSUED FOR CONSTRUCTION

SCALE: NTS

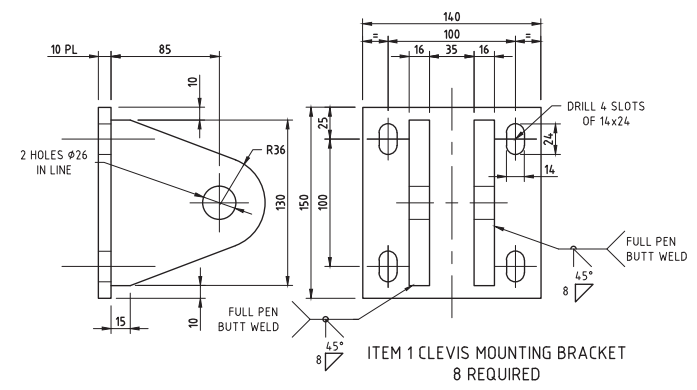
GAL VMS B LEMKE ROAD

VMS TYPE B
 FABRICATION DETAIL

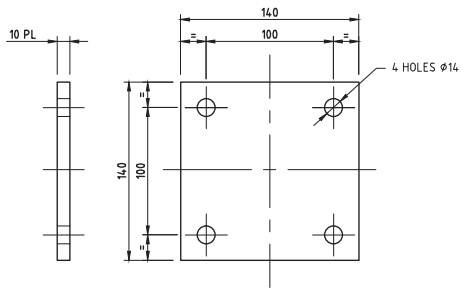
JT-C-1044-MB-029

REV 129

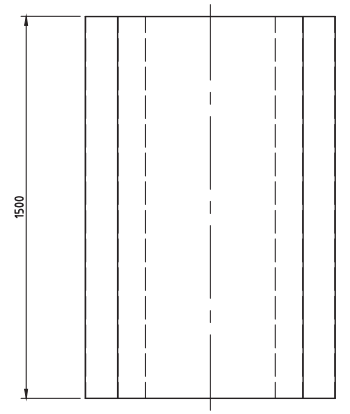
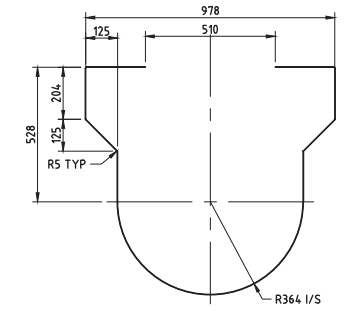
MATERIAL LIST - THIS PAGE ONLY				
ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	8	CLEVIS MOUNTING BRACKET	AS3678-350	20.00
2	8	CLEVIS BRACKET BACKING PLATE	AS3678-350	5.00
3	4	ADJUSTING ROD		12.00
15	1	SHEET 1.6 THICK x 2670x1500	AS3678-350	57.75
TOTAL MASS				37.00



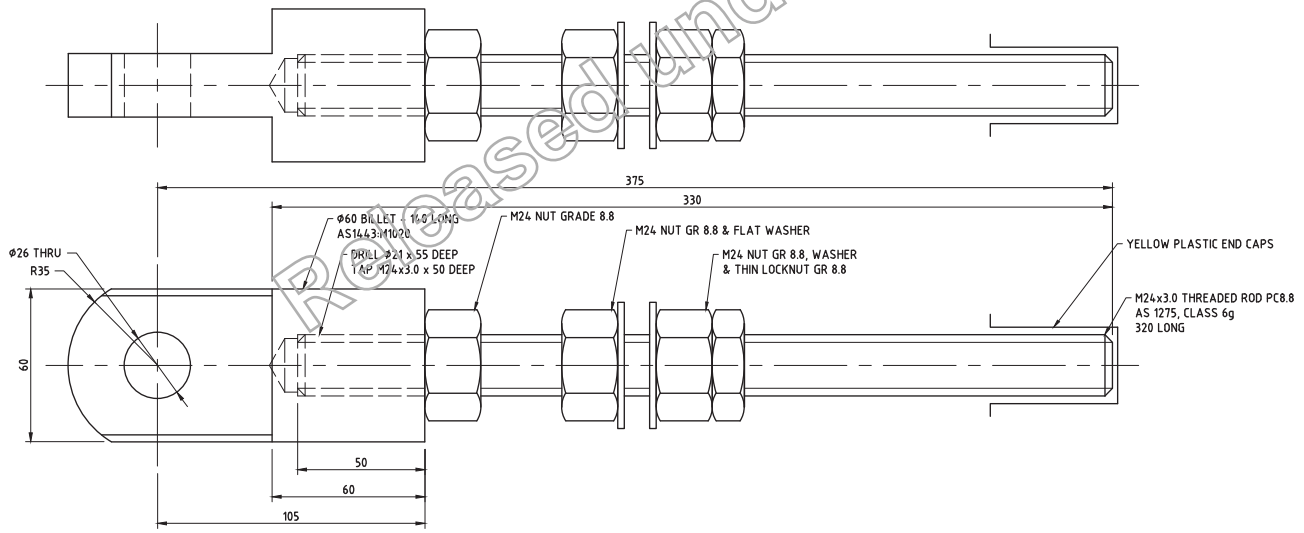
ITEM 1 CLEVIS MOUNTING BRACKET
8 REQUIRED



ITEM 2 CLEVIS BRACKET BACKING PLATE
8 REQUIRED



ITEM 15 ANTI CLIMBING GUARD
1 REQUIRED
NOTE: ALL DIMENSIONS TO INTERNAL INTERSECTION POINTS.
ALL INTERNAL RADII = R5



ITEM 3 ADJUSTING ROD
4 REQUIRED

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
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CAPALABA QLD 4157
PH: 1300 88 44 73
ABN 13 141 428 191

APPR.	DATE	NAME
CHECK		
DRAWN	11/07/12	AD

ISSUED FOR CONSTRUCTION

SCALE NTS	
GAL VMS B LEMKE ROAD	
VMS TYPE B EXTRA DETAILS	
JT-C-1044-MB-030	
FILENAME	SHEETS
15	16

Source Location	Source FOBOT Label	Port Range	Destination Location	Destination FOBOT Label	Port Range	REQUIREMENTS
LOGAN MWY/BEAUDESERT RD INTERCHANGE	FOPP B	5-48	TQ TMC Brandl St	FOC1	53-96	Bidirectional OTDR and LSPM - 2 available cores
ANDERSONS ST RAMPS	FOPP B	13-44	TQ TMC Brandl St	FOC4	61-92	Bidirectional OTDR and LSPM - 2 available cores
TQ TMC Brandl St	1-48 EMP BUS STATION	1-48	CC2	1-48 QML BRANDL ST ITS RACK 2		Bidirectional OTDR and LSPM - 4 available cores
Install 1 x Duplex 10m SCA to SCA Patch Lead between 'FOC1' and '1-48 EMP BUS STATION'.						
Birdirectional OTDR from MLH to CC2 and clean as necessary for through patch loss < 0.5db.						
Install 1 x 10m Duplex SCA to SCA Patch Lead between 'FOC4' and '1-48 EMP BUS STATION'. Birdirectional OTDR and clean as necessary for through patch loss < 0.5db.						
Birdirectional OTDR from Anderson St to CC2 and clean as necessary for through patch loss < 0.5db.						
CC2	25-48 Airport Drive	24-48	Mt Gravatt Caplaba Rd Gateway Interchange MMG502FC	25-36 to EMP	25-36	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 2m Duplex SCA to SCA Patch Lead between '1-48 QML BRANDL ST ITS RACK 2' and '25-48 Airport Drive'.						
Birdirectional OTDR from MLH to MMG502FC and clean as necessary for through patch loss < 0.5db.						
Mt Gravatt Caplaba Rd Gateway Interchange MMG502FC	13-24 TO WECKER ROAD	13-24	Wecker Road U13B-6145	FOBOT 5	37-48	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between '25-36 to EMP' and '13-24 TO WECKER ROAD'.						
Birdirectional OTDR from MLH to Wecker Road and clean as necessary for through patch loss < 0.5db.						
Wecker Road U13B-6145	FOBOT 6	37-48	POB	FOBOT 0	13-24	Bidirectional OTDR and LSPM - 2 available cores
Install Duplex 1 x 1m SCA to SCA Patch Lead between 'FOBOT 5' and 'FOBOT 6'.						
Birdirectional OTDR from MLH to MPB429NC and clean as necessary for through patch loss < 0.5db.						
Port of Brisbane MPB429NC	FOBOT 0	1-12	Gateway Tech Shelter	37-48 PORT PED TMR	37-48	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between 'FOBOT 0 1-12' and 'FOBOT 0 13-24'.						
Birdirectional OTDR from MLH to GATEWAY TECH SHELTER and clean as necessary for through patch loss < 0.5db.						
Gateway Tech Shelter	25-48 Airport Drive TMR	25-48	MAL196	FOPP2	13-24	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between '37-48 PORT PED TMR' and '25-48 Airport Drive TMR'.						
Birdirectional OTDR from MLH to MAL196 and clean as necessary for through patch loss < 0.5db.						
MAL196	FOPP1	49-60	Butterfield St	FOTRBH-FOJ401-Core 1 to 96	37-48	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between 'FOPP2' and 'FOPP1'.						
Birdirectional OTDR from MLH to Butterfield St and clean as necessary for through patch loss < 0.5db.						
Butterfield St	FOTCNT-FOJ307-Core 1 to 96	61-72	Countess St	TO BUTTERFIELD ST	61-72	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 5m Duplex SCA to SCA Patch Lead between 'FOTRBH-FOJ401 61-72' and 'FOTCNT-FOJ307 61-72'.						
Birdirectional OTDR from MLH to Countess St and clean as necessary for through patch loss < 0.5db.						
Countess St	96F TO KING GEORGE SQUARE (1-72)	1-12	KGS COM001	96F TO INB NODE ROOM	1-12	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 5m Duplex SCA to SCA Patch Lead between 'TO BUTTERFIELD ST 1-12' 96F TO KING GEORGE SQUARE (1-72)'.						
Birdirectional OTDR from MLH to KGS and clean as necessary for through patch loss < 0.5db.						
King George Square COM001	IT-FPP-003	33-34	BMTMC Level 2	CITBSQ-GSP-02-Ba FOBOT 2	33-34	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 5m Duplex SCA to SCA Patch Lead between 'TO BUTTERFIELD ST 1-12' 96F TO KING GEORGE SQUARE (1-72)'.						
Birdirectional OTDR from MLH to BMTMC and clean as necessary for through patch loss < 0.5db.						
Provide test results for overall link. OTDR and LSPM 1310 and 1550 wavelengths.						

OTDR Report (1550 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:35:09 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

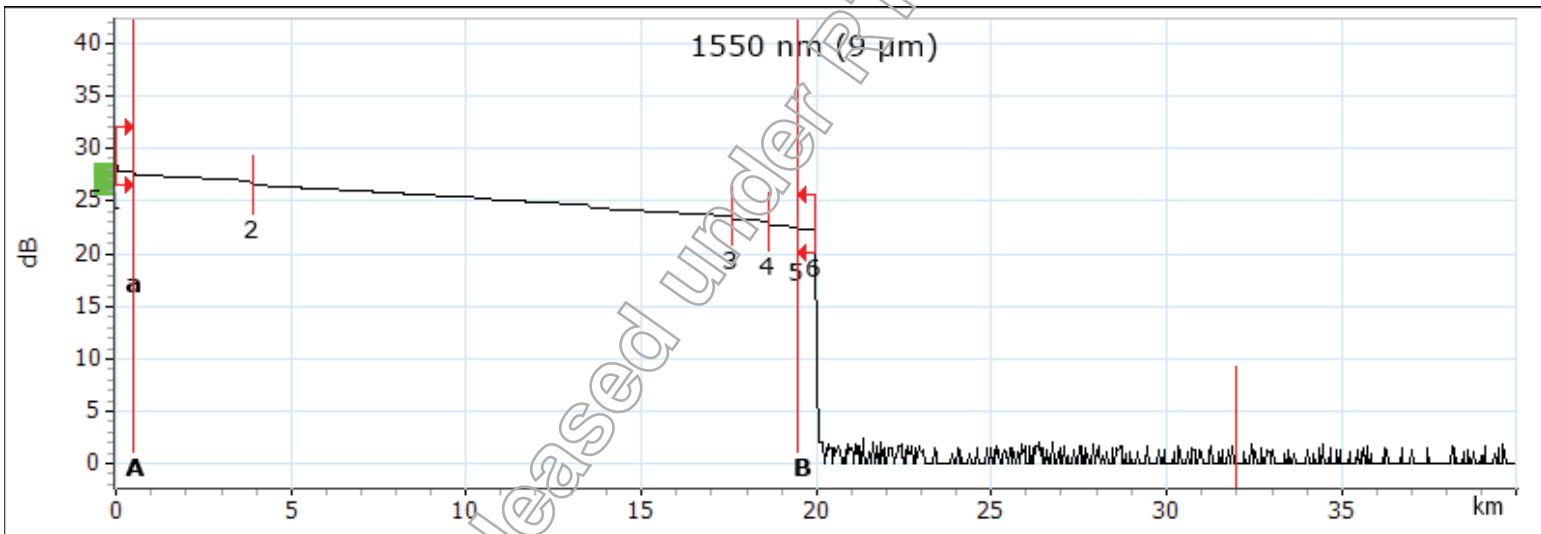
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9847 km Average loss: 0.274 dB/km Injection level: 27.9 dB
 Span loss: 5.479 dB Average splice loss: 0.331 dB
 Span ORL: 33.21 dB Maximum splice loss: 0.386 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.245 dB/km	A-B average loss:	0.277 dB/km
a	0.4696	27.781	A-B LSA loss:	4.657 dB	4-point Event Loss:	15.288 dB
A	0.4696	27.781	A-B ORL:	33.33 dB	Maximum reflectance:	-71.9 dB
B	19.4475	22.532				
b	32.0003	0.000				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-56.0		0.000
Section		3.9137	0.857		0.219	0.857
Non-Reflective	2	3.9137	0.305			1.162
Section		13.6783	3.064		0.224	4.226
Non-Reflective	3	17.5921	0.301			4.527
Section		1.0451	0.191		0.182	4.717
Non-Reflective	4	18.6372	0.386			5.103
Section		0.8090	0.205		0.253	5.308
Reflective	5	19.4462	0.074	-70.9		5.382
Section		0.5385	0.097		0.181	5.479
Reflective	6	19.9847	---	-58.7		5.479

Macro bend

No macro bend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macro bend Wavelengths	Macro bend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1310 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:36:10 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

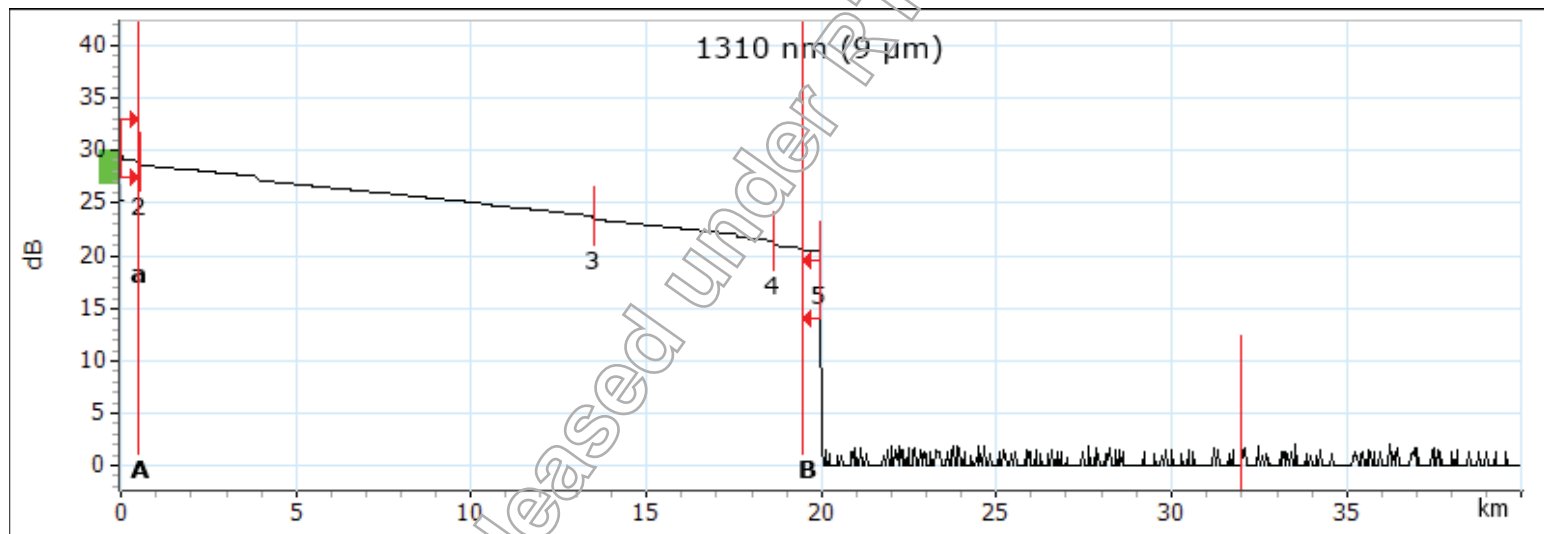
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9907 km Average loss: 0.446 dB/km Injection level: 29.2 dB
 Span loss: 8.921 dB Average splice loss: 0.377 dB
 Span ORL: 32.74 dB Maximum splice loss: 0.432 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.403 dB/km	A-B average loss:	0.441 dB/km
a	0.4696	29.023	A-B LSA loss:	7.645 dB	4-point Event Loss:	17.089 dB
A	0.4696	29.023	A-B ORL:	32.82 dB	Maximum reflectance:	-75.6 dB
B	19.4475	20.650				
b	32.0003	3.134				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-55.3		0.000
Section		0.5451	0.184		0.337	0.184
Non-Reflective	2	0.5451	0.353			0.536
Section		12.9565	4.913		0.379	5.450
Non-Reflective	3	13.5016	0.346			5.796
Section		5.1397	2.018		0.393	7.813
Non-Reflective	4	18.6413	0.432			8.245
Section		1.3494	0.676		0.501	8.921
Non-Reflective	5	19.9907	---			8.921

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released Under RTI - DTMR

OTDR Report (1550 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:39:16 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

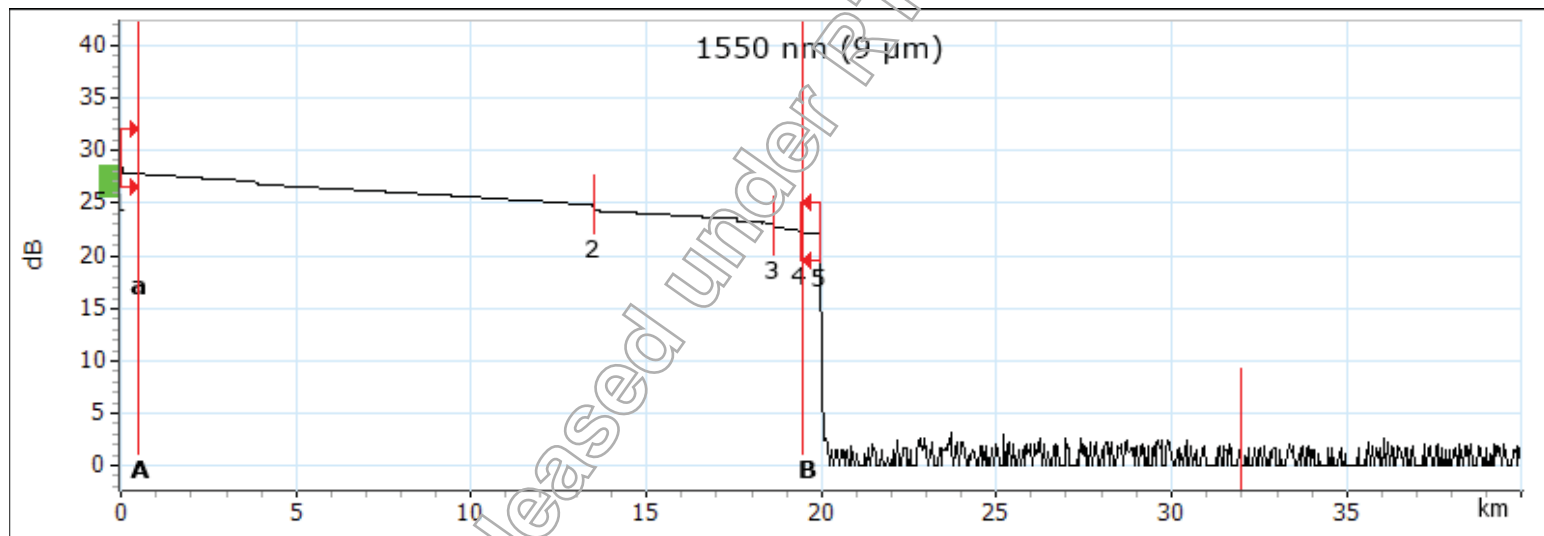
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9822 km Average loss: 0.287 dB/km Injection level: 27.9 dB
 Span loss: 5.741 dB Average splice loss: 0.513 dB
 Span ORL: 32.86 dB Maximum splice loss: 0.566 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.264 dB/km	A-B average loss:	0.281 dB/km
a	0.4696	27.774	A-B LSA loss:	5.005 dB	4-point Event Loss:	15.774 dB
A	0.4696	27.774	A-B ORL:	32.95 dB	Maximum reflectance:	-73.8 dB
B	19.4475	22.445				
b	31.9990	0.000				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-55.9		0.000
Section		13.5099	3.065		0.227	3.065
Non-Reflective	2	13.5099	0.566			3.631
Section		5.1388	1.187		0.231	4.818
Non-Reflective	3	18.6487	0.459			5.277
Section		0.7937	0.230		0.290	5.507
Reflective	4	19.4424	0.132	-71.0		5.639
Section		0.5398	0.101		0.188	5.741
Reflective	5	19.9822	---	-58.5		5.741

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1310 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:40:18 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

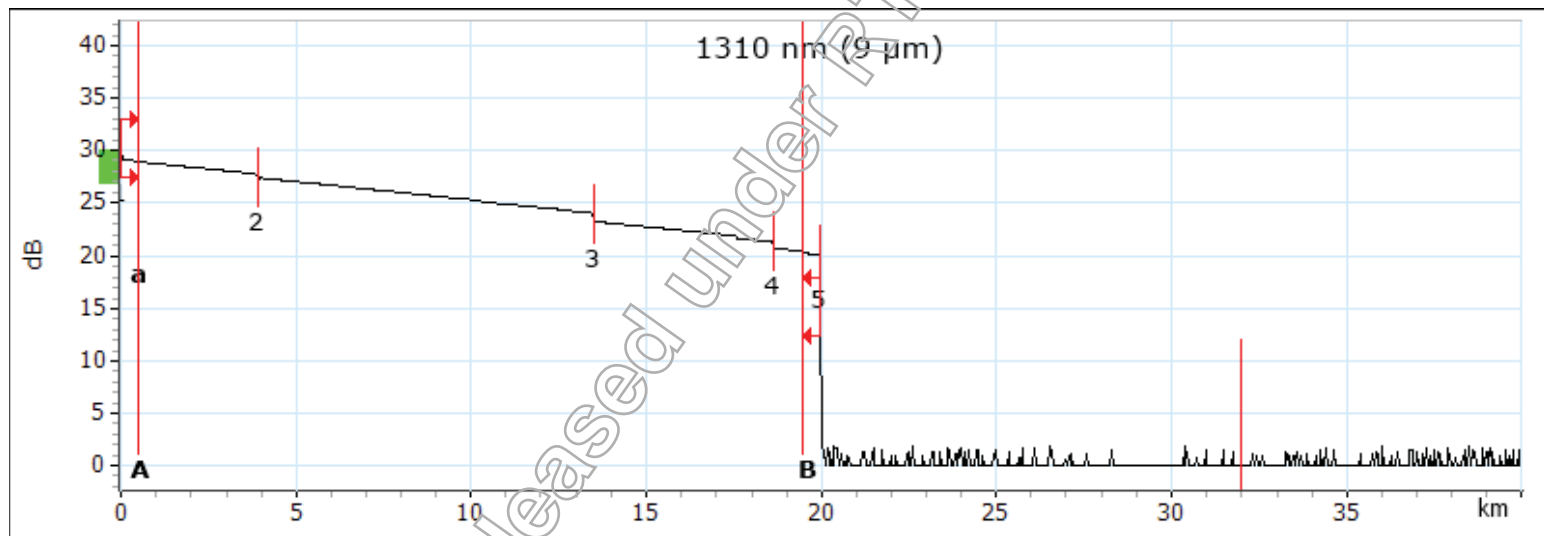
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9868 km Average loss: 0.457 dB/km Injection level: 29.2 dB
 Span loss: 9.140 dB Average splice loss: 0.560 dB
 Span ORL: 32.30 dB Maximum splice loss: 0.780 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.432 dB/km	A-B average loss:	0.452 dB/km
a	0.4696	28.996	A-B LSA loss:	8.196 dB	4-point Event Loss:	17.012 dB
A	0.4696	28.996	A-B ORL:	32.31 dB	Maximum reflectance:	-74.5 dB
B	19.4475	20.412				
b	31.9990	2.868				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-55.3		0.000
Section		3.9141	1.365		0.349	1.365
Non-Reflective	2	3.9141	0.314			1.679
Section		9.5938	3.402		0.355	5.081
Non-Reflective	3	13.5080	0.780			5.861
Section		5.1295	1.937		0.378	7.798
Non-Reflective	4	18.6375	0.585			8.383
Section		1.3494	0.756		0.561	9.140
Non-Reflective	5	19.9868	---			9.140

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released Under RTI - DTMR

OTDR Report (1550 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:27:22 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

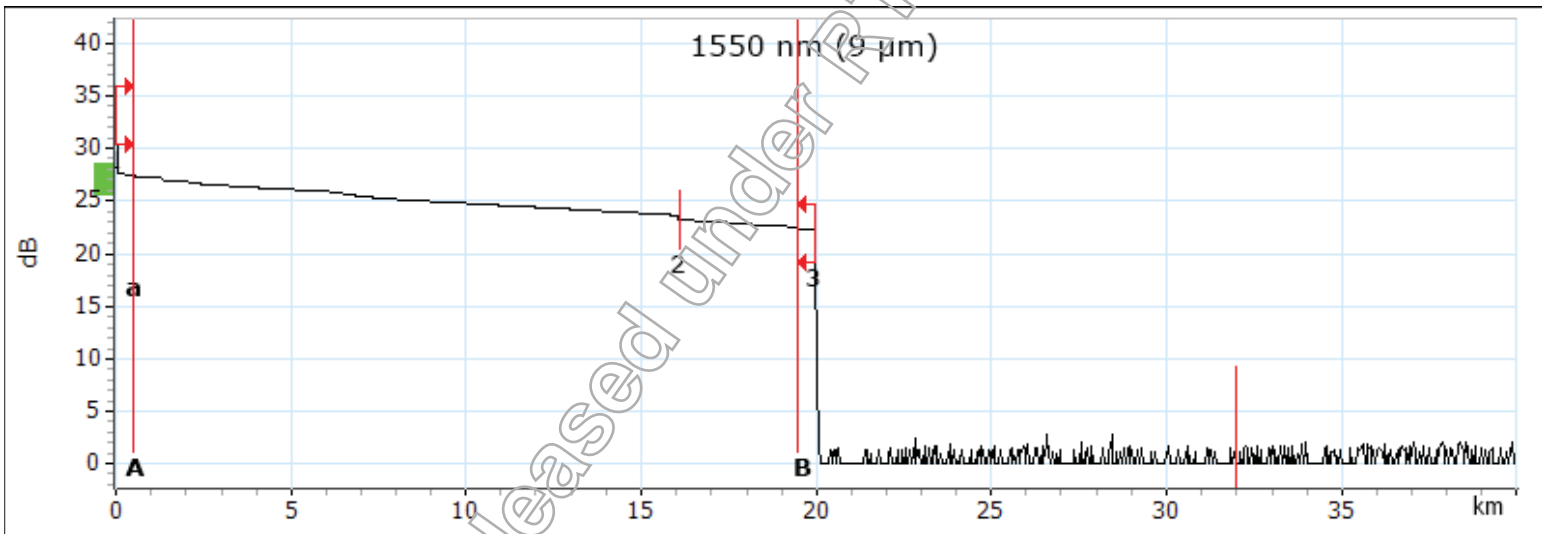
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9860 km Average loss: 0.262 dB/km Injection level: 27.6 dB
 Span loss: 5.228 dB Average splice loss: 0.437 dB
 Span ORL: 33.54 dB Maximum splice loss: 0.437 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.244 dB/km	A-B average loss:	0.262 dB/km
a	0.4696	27.533	A-B LSA loss:	4.629 dB	4-point Event Loss:	15.613 dB
A	0.4696	27.533	A-B ORL:	33.65 dB	Maximum reflectance:	-72.6 dB
B	19.4475	22.557				
b	31.9990	0.000				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.7		0.000
Section		16.0863	3.836		0.238	3.836
Non-Reflective	2	16.0863	0.437			4.273
Section		3.8997	0.955		0.245	5.228
Reflective	3	19.9860	---	-62.2		5.228

Macro bend

No macro bend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macro bend Wavelengths	Macro bend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1310 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:28:22 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

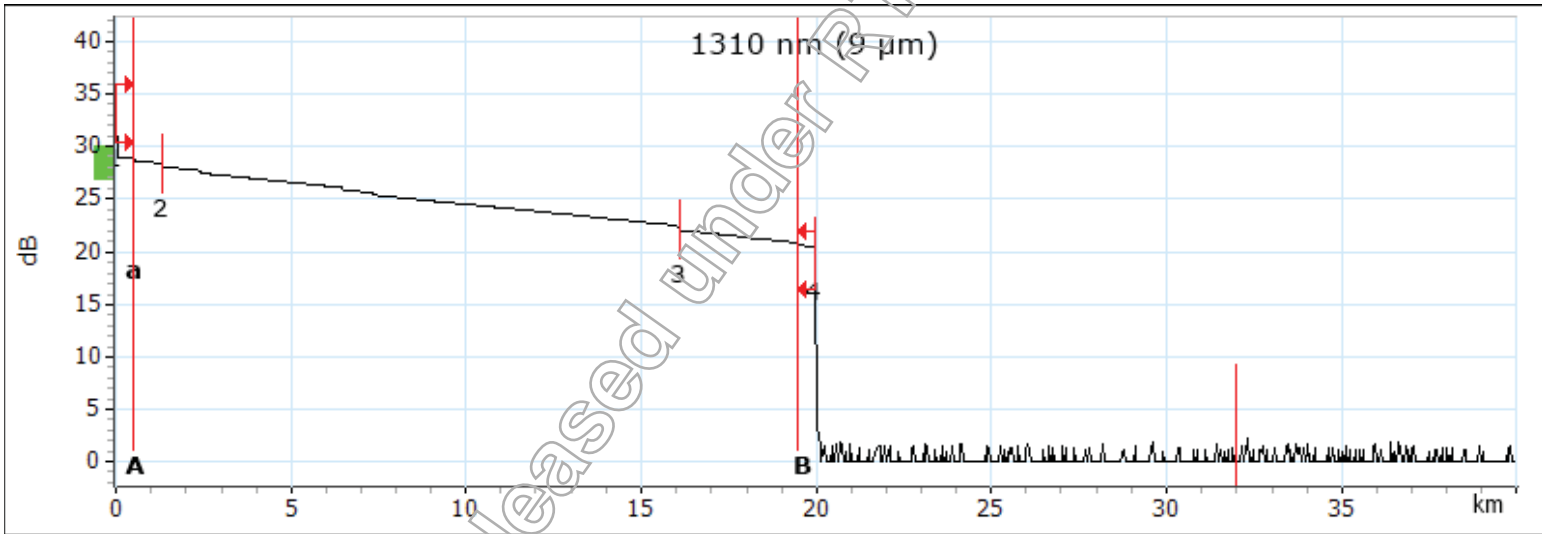
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9856 km Average loss: 0.433 dB/km Injection level: 29.1 dB
 Span loss: 8.653 dB Average splice loss: 0.374 dB
 Span ORL: 33.09 dB Maximum splice loss: 0.429 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.398 dB/km	A-B average loss:	0.423 dB/km
a	0.4696	28.913	A-B LSA loss:	7.547 dB	4-point Event Loss:	16.634 dB
A	0.4696	28.913	A-B ORL:	33.23 dB	Maximum reflectance:	---
B	19.4475	20.882				
b	31.9990	0.000				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-45.3		0.000
Section		1.3379	0.725		0.542	0.725
Non-Reflective	2	1.3379	0.319			1.044
Section		14.7463	5.626		0.382	6.671
Non-Reflective	3	16.0842	0.429			7.100
Section		3.9014	1.554		0.398	8.653
Reflective	4	19.9856	---	-57.6		8.653

Macroband

No macroband detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macroband Wavelengths	Macroband Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1550 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:33:14 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

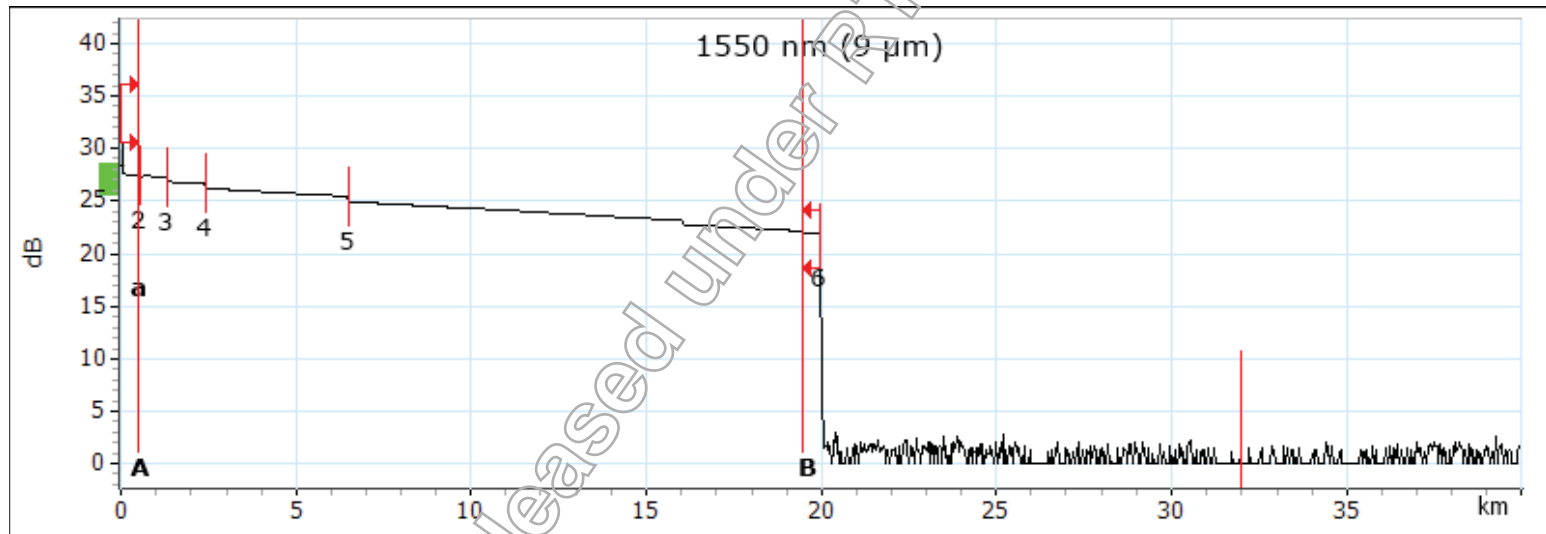
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9822 km Average loss: 0.284 dB/km Injection level: 27.6 dB
 Span loss: 5.680 dB Average splice loss: 0.453 dB
 Span ORL: 34.13 dB Maximum splice loss: 0.487 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.258 dB/km	A-B average loss:	0.283 dB/km
a	0.4696	27.524	A-B LSA loss:	4.896 dB	4-point Event Loss:	15.009 dB
A	0.4696	27.524	A-B ORL:	34.31 dB	Maximum reflectance:	-70.9 dB
B	19.4475	22.161				
b	31.9990	1.494				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.1		0.000
Section		0.5436	0.100		0.184	0.100
Reflective	2	0.5436	0.067	-71.2		0.167
Section		0.7873	0.138		0.176	0.305
Non-Reflective	3	1.3310	0.426			0.731
Section		1.0770	0.195		0.181	0.926
Non-Reflective	4	2.4080	0.445			1.371
Section		4.0784	0.767		0.188	2.138
Non-Reflective	5	6.4863	0.487			2.625
Section		13.4958	3.055		0.226	5.680
Reflective	6	19.9822	---	-61.8		5.680

Macroband

No macroband detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macroband Wavelengths	Macroband Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTPR

OTDR Report (1310 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:34:15 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

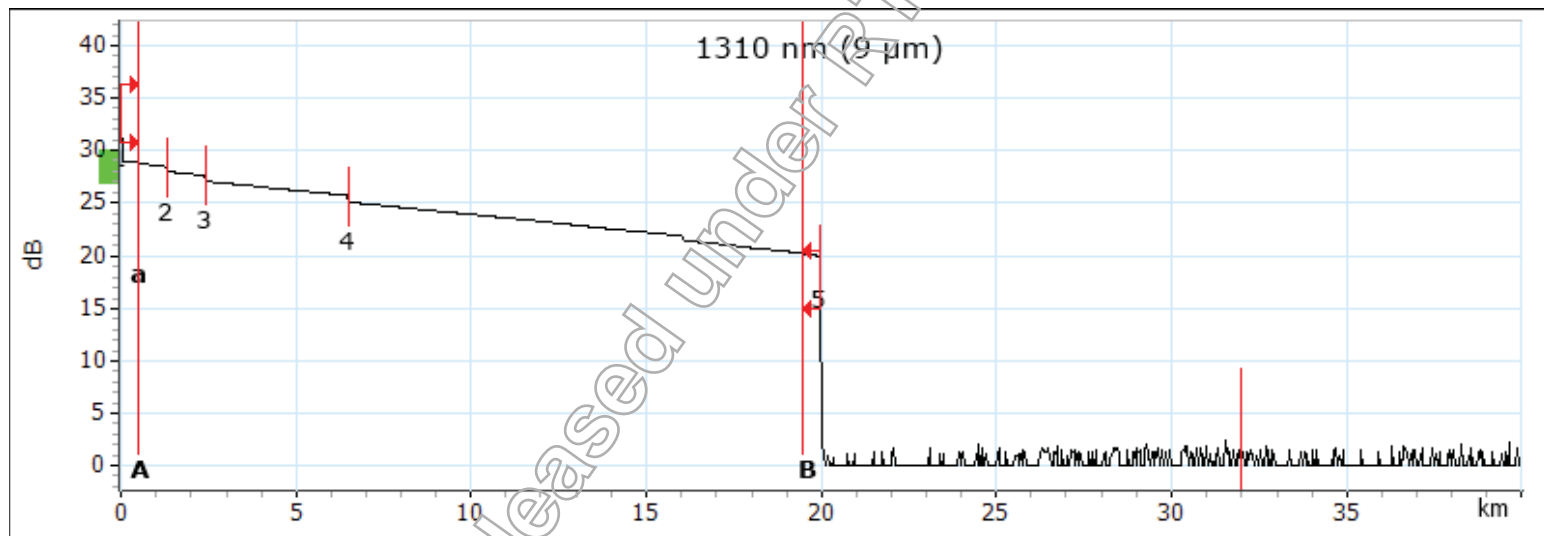
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9830 km Average loss: 0.457 dB/km Injection level: 29.0 dB
 Span loss: 9.135 dB Average splice loss: 0.545 dB
 Span ORL: 33.63 dB Maximum splice loss: 0.623 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.423 dB/km	A-B average loss:	0.453 dB/km
a	0.4696	28.880	A-B LSA loss:	8.032 dB	4-point Event Loss:	17.963 dB
A	0.4696	28.880	A-B ORL:	33.79 dB	Maximum reflectance:	-74.2 dB
B	19.4475	20.286				
b	31.9990	0.000				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.4		0.000
Section		1.3290	0.610		0.459	0.610
Non-Reflective	2	1.3290	0.453			1.063
Section		1.0787	0.364		0.337	1.427
Non-Reflective	3	2.4077	0.559			1.986
Section		4.0775	1.367		0.335	3.353
Non-Reflective	4	6.4853	0.623			3.976
Section		13.4978	5.159		0.382	9.135
Reflective	5	19.9830	---	-57.4		9.135

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

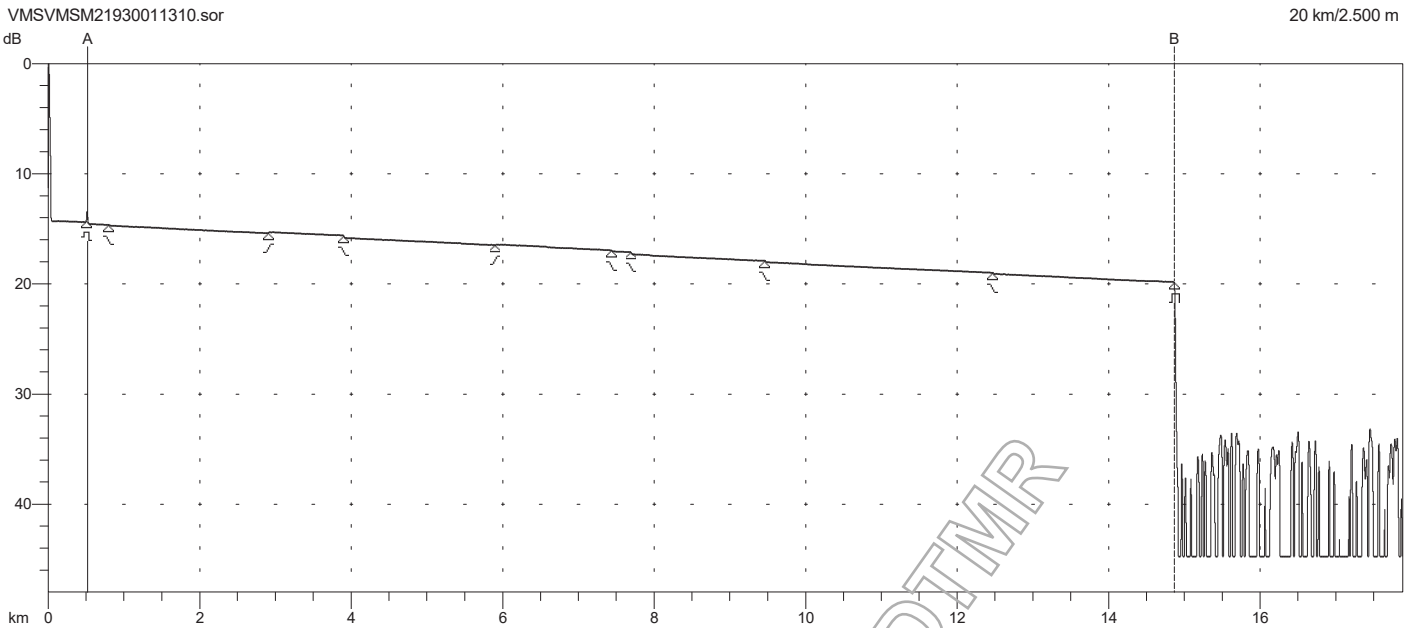
Test Parameters

	A → B
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released Under RTI - DTMR



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.241 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

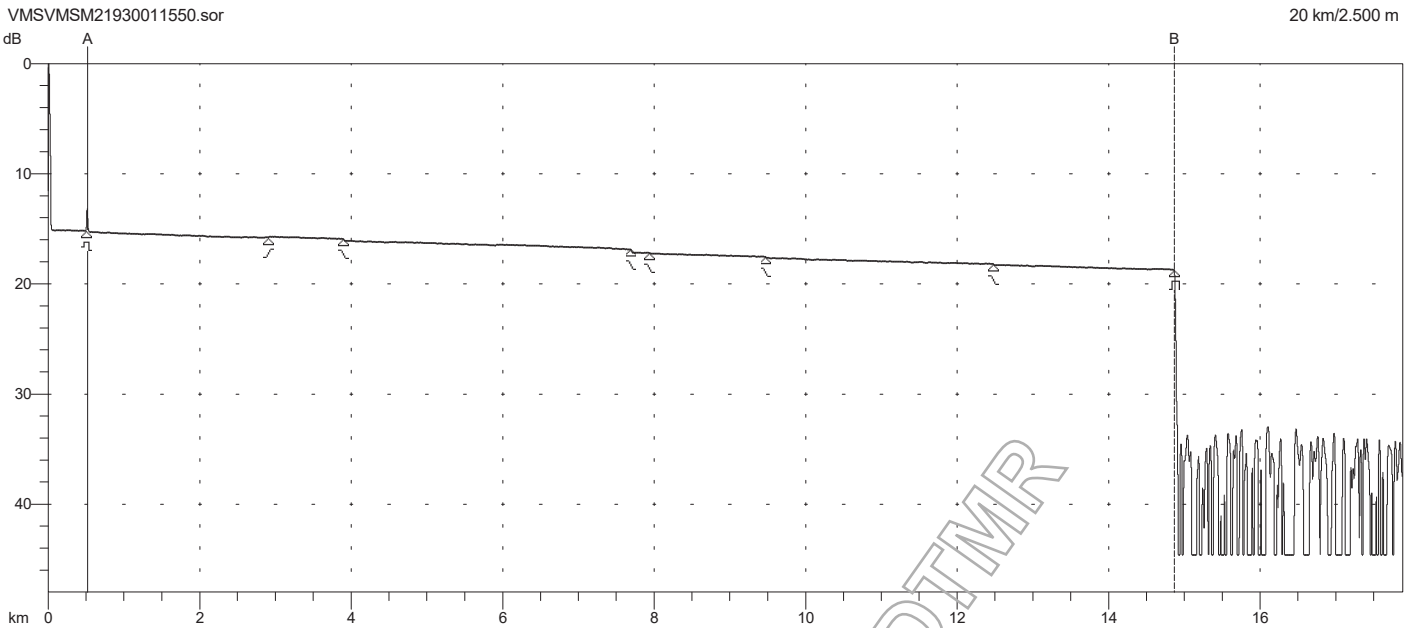
```

Primary Trace: VMSVMSM21930011310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:48 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode Wavelength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930011310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5056	0.10 0.207	0.17	-59.60
2/N	0.8018	0.09 0.289	0.07	
3/N	2.9060	0.69 0.329	-0.11	
4/N	3.8968	0.31 0.317	0.22	
5/N	5.8988	0.64 0.321	-0.06	
6/N	7.4335	0.54 0.350	0.10	
7/N	7.6914	0.07 0.258	0.20	
8/N	9.4585	0.58 0.329	0.13	
9/N	12.4667	0.97 0.324	0.09	
10/E	14.8696	0.75 0.311	>6.00	N/A

Overall (End-to-End) Loss: 5.54 dB



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.362 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

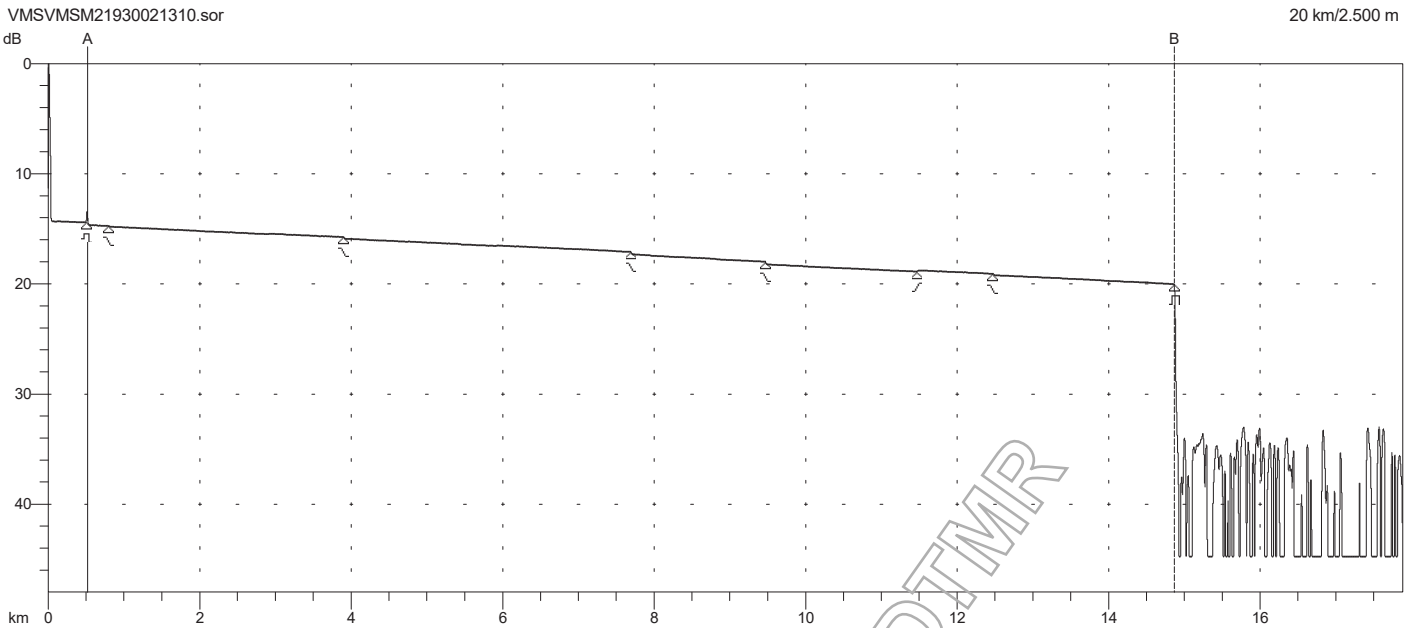
```

Primary Trace: VMSVMSM21930011550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:48 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930011550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5029	0.06 0.113	0.13	-57.34
2/N	2.9076	0.47 0.194	-0.12	
3/N	3.8955	0.26 0.260	0.19	
4/N	7.6939	0.77 0.204	0.29	
5/N	7.9339	0.01 0.057	0.07	
6/N	9.4757	0.30 0.192	0.13	
7/N	12.4828	0.52 0.174	0.07	
8/E	14.8696	0.47 0.195	>6.00	N/A

Overall (End-to-End) Loss: 3.60 dB



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.326 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930021310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:49 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode WaveLength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

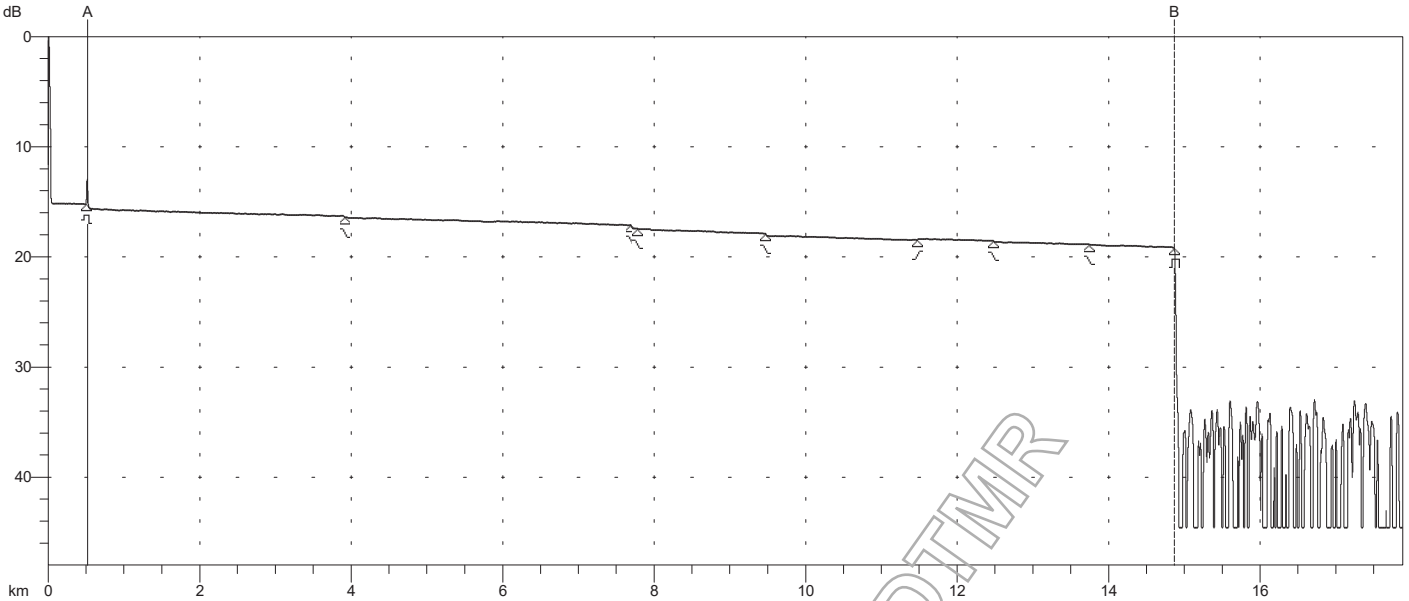
Analysis Results -- VMSVMSM21930021310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5031	0.12 0.239	0.23	-59.53
2/N	0.7916	0.08 0.281	0.07	
3/N	3.8968	0.94 0.302	0.14	
4/N	7.6914	1.20 0.315	0.23	
5/N	9.4687	0.65 0.367	0.25	
6/N	11.4682	0.65 0.324	-0.12	
7/N	12.4667	0.32 0.317	0.12	
8/E	14.8696	0.84 0.349	>6.00	N/A

Overall (End-to-End) Loss: 5.72 dB

VMSVMSM21930021550.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.718 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930021550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:49 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

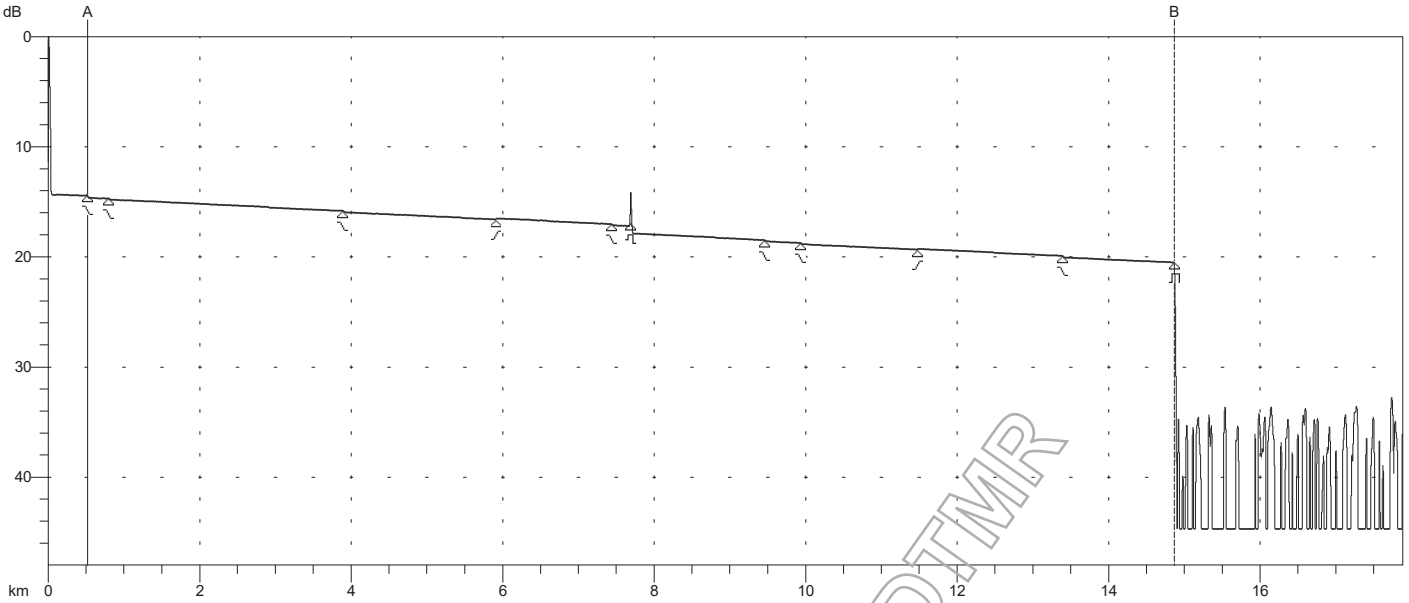
Analysis Results -- VMSVMSM21930021550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5029	0.06 0.128	0.47	-56.52
2/N	3.9159	0.69 0.203	0.12	
3/N	7.6939	0.60 0.160	0.33	
4/N	7.7731	-0.01 -0.080	0.06	
5/N	9.4706	0.39 0.232	0.19	
6/N	11.4745	0.40 0.197	-0.11	
7/N	12.4726	0.17 0.173	0.08	
8/N	13.7413	0.25 0.199	0.06	
9/E	14.8696	0.24 0.211	>6.00	N/A

Overall (End-to-End) Loss: 4.00 dB

VMSVMSM21930031310.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.141 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930031310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:56 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode WaveLength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

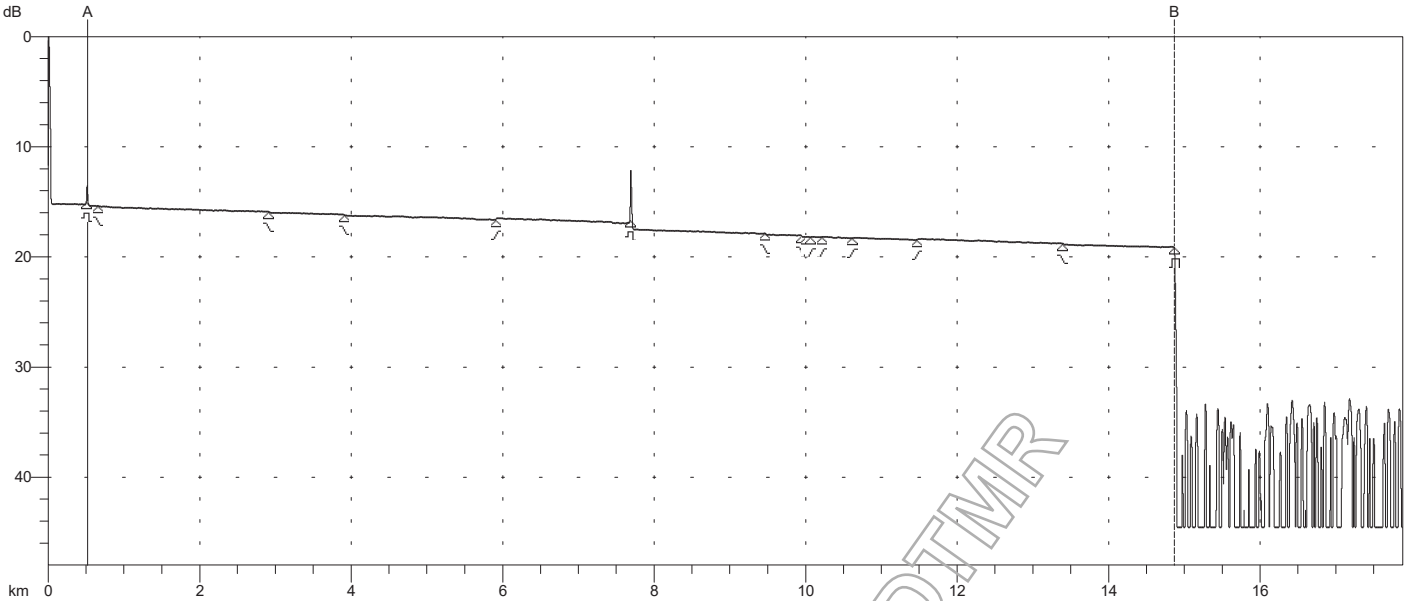
Analysis Results -- VMSVMSM21930031310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/N	0.5133	0.07 0.144	0.19	
2/N	0.7967	0.11 0.377	0.07	
3/N	3.8891	1.04 0.336	0.12	
4/N	5.9090	0.67 0.332	-0.09	
5/N	7.4310	0.52 0.342	0.10	
6/R	7.6838	0.06 0.235	0.67	-52.23
7/N	9.4585	0.63 0.357	0.11	
8/N	9.9335	0.15 0.317	0.11	
9/N	11.4708	0.48 0.314	-0.06	
10/N	13.3885	0.64 0.333	0.14	
11/E	14.8671	0.45 0.306	>6.00	N/A

Overall (End-to-End) Loss: 6.17 dB

VMSVMSM21930031550.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.310 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930031550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:56 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930031550.sor

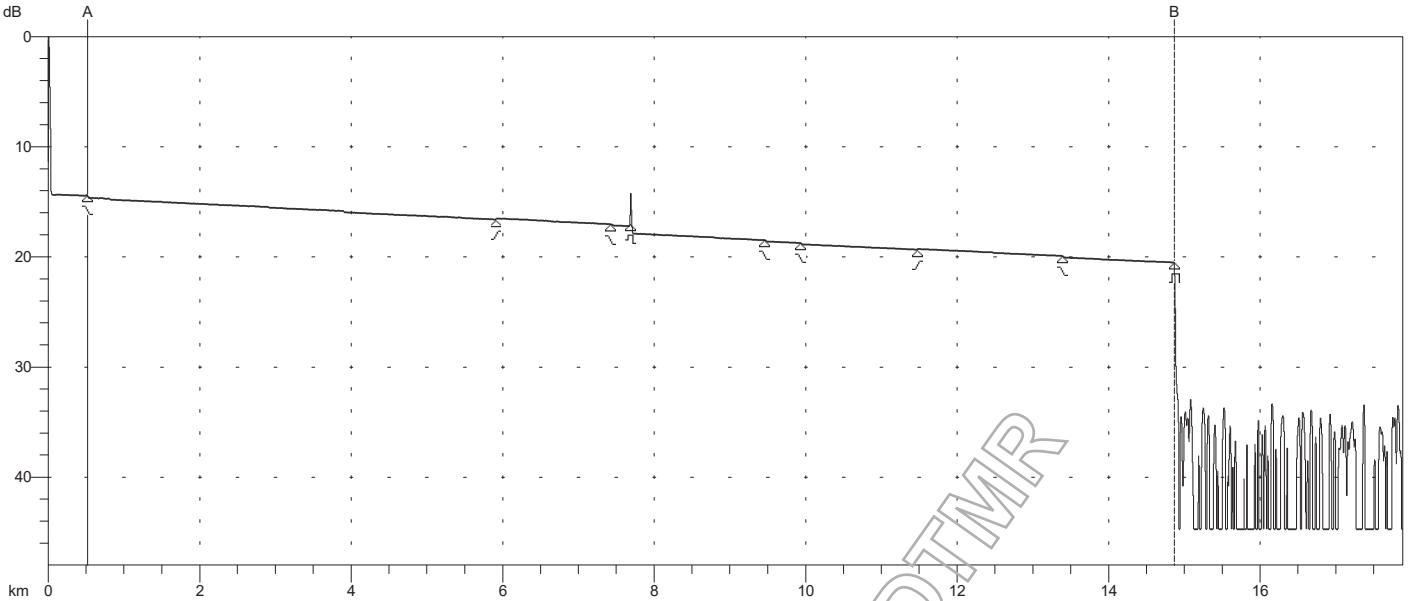
Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5054	0.05 0.096	0.11	-58.34
2/N	0.6561	0.03 0.173	0.08	
3/N	2.9025	0.42 0.189	0.07	
4/N	3.9031	0.21 0.206	0.08	
5/N	5.9096	0.41 0.203	-0.12	
6/R	7.6837	0.39 0.222	0.58	-50.08
7/N	9.4604	0.38 0.214	0.09	
8/N	9.9403	0.08 0.175	0.10	
9/N	10.0041	0.05 0.804	-0.07	
10/N	10.0680	0.07 1.160	-0.05	
11/N	10.2160	0.07 0.453	-0.08	
12/N	10.6117	0.16 0.412	-0.06	
13/N	11.4694	0.21 0.244	-0.10	
14/N	13.3891	0.41 0.215	0.10	
15/E	14.8696	0.25 0.166	>6.00	N/A

Overall (End-to-End) Loss: 3.93 dB

Released under RTI - DTMR

VMSVMSM21930041310.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.140 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930041310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:55 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode Wavelength: 1310 nm
FAS Thresholds:
Loss: 0.05 dB Horz. Shift: 0.0000 km
Reflectance: -65.53 dB Vert. Shift: 0.00 dB
Fiber Break: 6.00 dB No. Averages: 98080
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

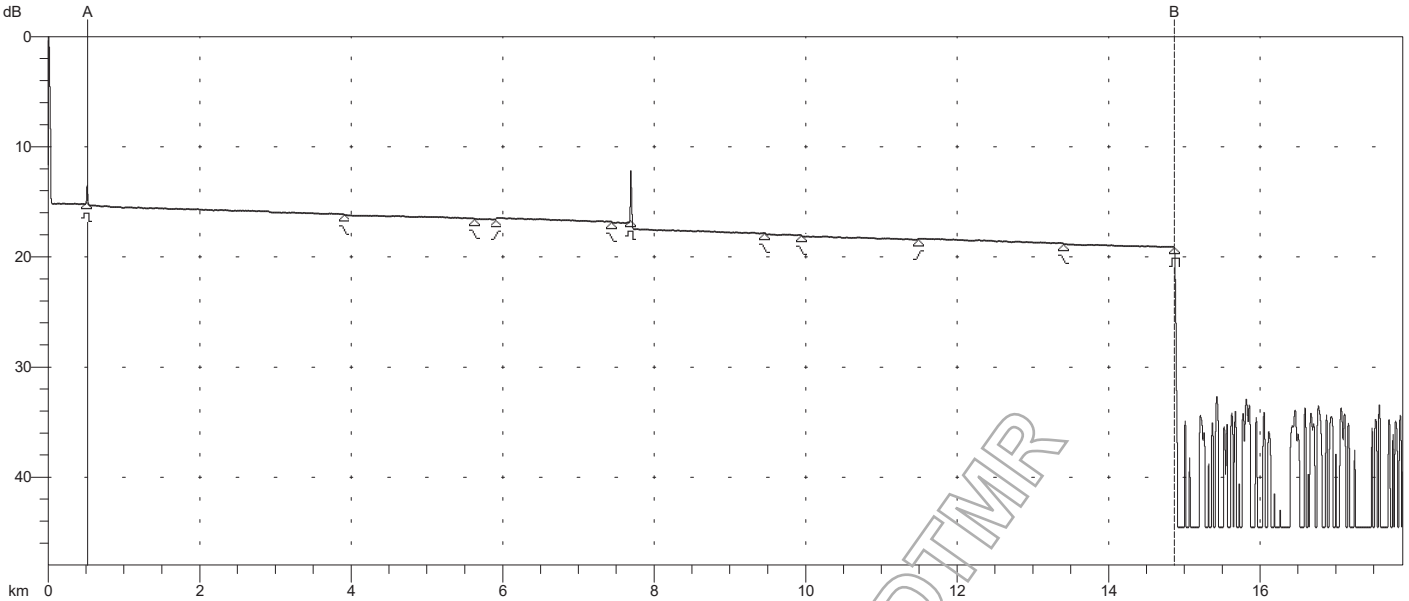
Analysis Results -- VMSVMSM21930041310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/N	0.5133	0.08 0.153	0.19	
2/N	5.9090	2.00 0.371	-0.13	
3/N	7.4259	0.55 0.366	0.08	
4/R	7.6838	0.08 0.305	0.65	-52.50
5/N	9.4585	0.63 0.358	0.11	
6/N	9.9335	0.15 0.320	0.11	
7/N	11.4708	0.48 0.313	-0.07	
8/N	13.3885	0.65 0.340	0.13	
9/E	14.8671	0.46 0.309	>6.00	N/A

Overall (End-to-End) Loss: 6.17 dB

VMSVMSM21930041550.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.311 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
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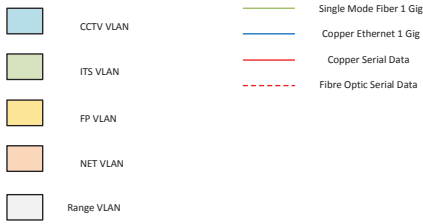
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Primary Trace: VMSVMSM21930041550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:55 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930041550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5054	0.05 0.090	0.17	-58.31
2/N	3.9031	0.74 0.218	0.08	
3/N	5.6288	0.33 0.191	0.08	
4/N	5.9096	0.00 0.007	-0.13	
5/N	7.4412	0.32 0.208	0.09	
6/R	7.6837	0.00 0.004	0.59 (2P)	-50.82
7/N	9.4579	0.36 0.200	0.07	
8/N	9.9403	0.11 0.218	0.10	
9/N	11.4873	0.31 0.200	-0.08	
10/N	13.4044	0.42 0.218	0.10	
11/E	14.8696	0.22 0.148	>6.00	N/A

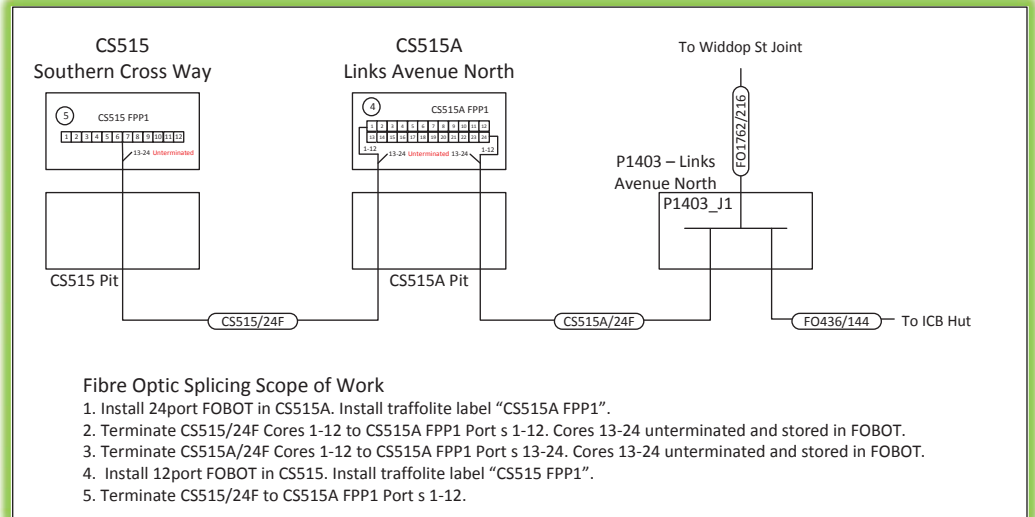
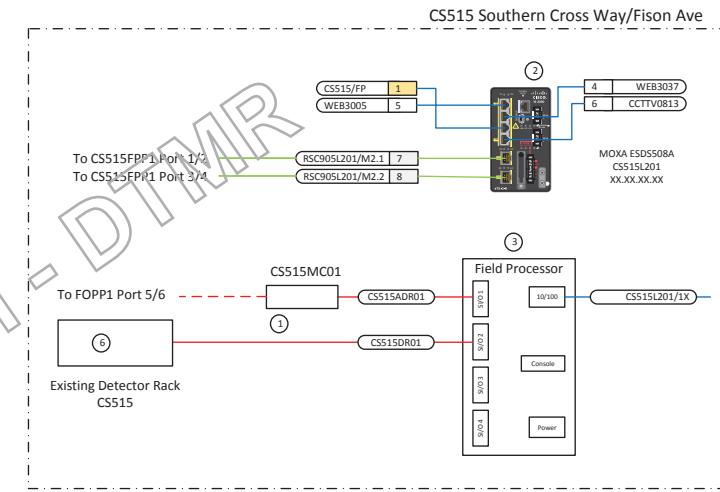
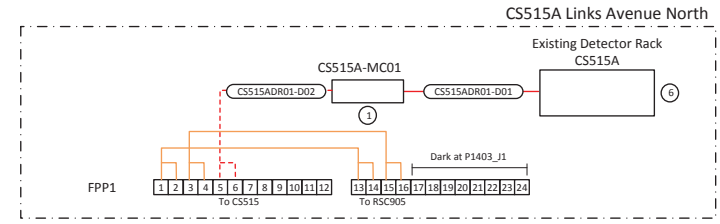
Overall (End-to-End) Loss: 3.92 dB



Item	Description	Part Number	Qty
1	Serial Media Convertor	TCF-142-S-SC-T	2
2	Network Switch	Moxa EDS508A	1
3	Field Processor	Existing FP.MINI-6 (QTRON4)	1
4	Fibre Optic Patch Panel	FRE-1RU-MOD-S with 24 SC-APC through connectors and pigtails, 1 x LH angled faceplate (FRE-SC12H-AL1/12) and 1 x RH Angled Faceplate (FRE-SC12H-AR13/24).	1
5	Fibre Optic Patch Panel	FRE-1RU-MOD-S with 12 SC-APC through angled connectors and pigtails. 1 x LH Angled Faceplate (FRE-SC12H-AL1/12) and 1 x blanking plate (FRE-BLANK)	1
6	Detector Rack	Existing	2

Site	Name	Switch	VLAN	IP	SN	GW	Port	Description	VLAN	IP Address	Subnet	Gateway	Notes
CS515	Southern Cross Way at Fison Avenue	CS515L201					1	CS515/FP				DHCP	Part of East/West Arterial Network
							2						
							3						
							4	WEB3037					
							5	WEB3005					
							6	CCTV0813					
							7	FOBOT 1/2					
							8	FOBOT 3/4					

Detector Rack ID	CS515/FP Port No.	Input Number	Detector ID	Detector Description
CS515DR01	2	1	515-01	Southern Cross Way SB after Links Ave Exit Lane 1
		2	515-02	Southern Cross Way SB after Links Ave Exit Lane 1-Speed
		3	515-03	Southern Cross Way SB after Links Ave Exit Lane 2
		4	515-04	Southern Cross Way SB after Links Ave Exit Lane 2-Speed
		5	515-05	Southern Cross Way NB after Fison Ave Exit Lane 2
		6	515-06	Southern Cross Way NB after Fison Ave Exit Lane 2-Speed
		7	515-07	Southern Cross Way NB after Fison Ave Exit Lane 1
		8	515-08	Southern Cross Way NB after Fison Ave Exit Lane 1-Speed
		9	515-09	Fison Ave NB Exit Lane 2
		10	515-10	Fison Ave NB Exit Lane 1
		11	515-11	Links Ave SB Exit
CS515ADR01	1	3	515-12	Links Ave SB On Ramp Lane 1
		4	515-13	Links Ave SB On Ramp Lane 2



Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads	CS515 and CS515A Connection Detail	Site No.
B	Issued for Construction	CO	7/08/2018		Horiz. Datum Height Datum WGS84		Metropolitan District		Queensland Government
A	Original Issue A3				Auxiliary Drawing #:		Reference Points	CS515 and CS515A Connection Detail	Department of Transport & Main Roads
					Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise	Drawn by Colin Otto 15/05/2018	Engineering Certification (RPEQ)
							© Copyright TMR 2016	Design Checked	Contract No.
								Design Verified	Drawing No.
								Design Review	Series No.
									1 of 1

TE Connectivity Closure Flash Test Guidelines



Closure Flash Test Guidelines

Tools required: Single barrel-foot-pump, low scale air pressure gauge and soapy solution

1. Remove the dust cap on the valve and connect foot pump



When testing DO NOT inflate closure higher than 5psi/34kpa

2. Pump the foot pump 10 times

- Check gauge for positive reading <5psi/34kpa
- If zero reading then investigate major leak, sealing ring etc.
- If positive reading then continue to next step

3. Using soapy solution (liquid detergent and water) apply soap suds liberally to:

- Valve, Heat-shrinks on all ports, branch clip, and around closure clamp

4. Check for steady stream of bubbles-indicating a leak path

5. Pump a further 5 times and re-check for leaks



IMPORTANT! Release all air from closure once testing is complete

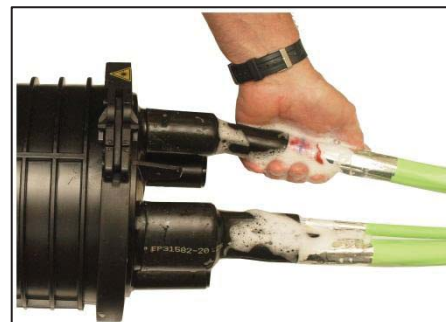
6. Replace dust cap on the valve

Possible causes for Pressure Test Failure:

1. Rubber O- ring damaged, dirty or fitted incorrectly
2. Closure clamp fitted incorrectly
3. Faulty installation of heat-shrinks
4. Valve damaged or incorrectly sealed





Re-Work Action:

1. Remove O-ring; check placement, condition and cleanliness
2. Refit closure clamp correctly (replace if damaged)
3. Replace damaged heat-shrink; use wrap-around heat shrink:
(oval port – TE part no. F08641-000, round port-TE part no. E91474-000)
4. Replace damaged valve or re-seat valve assembly to ensure correct seal



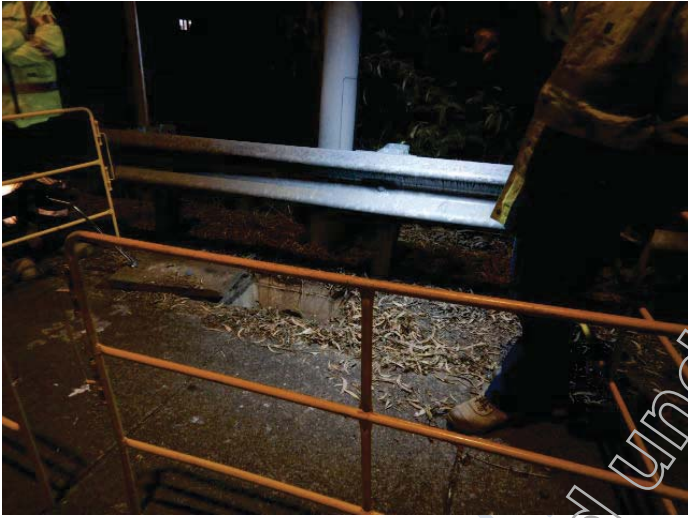



Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	1 – BCC P5210 – J1				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St footpath						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
BCC							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>BCC Joint 1 – 216f incoming and 12f outgoing to Hoyland St Splice TMR P702</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	2	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St footpath				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	3	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St footpath				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	4	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Southbound onramp / End of footpath				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	5	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St Southbound onramp Island				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

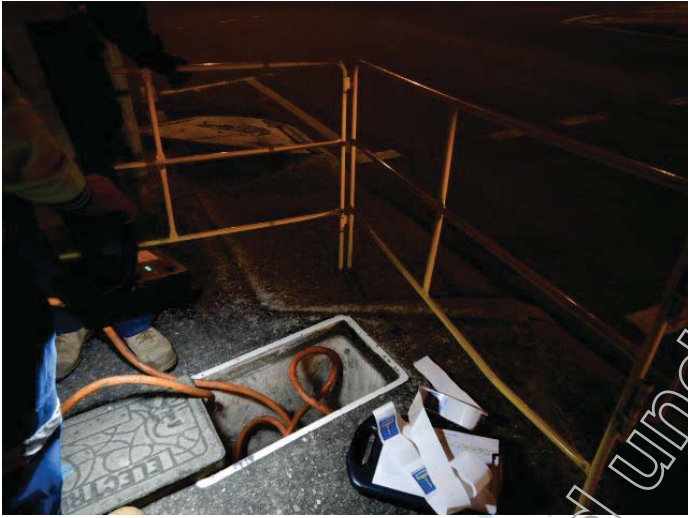



Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	6	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St Southbound onramp Island				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	7				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702 / TMR 002 to Hoyland 1017 CCTV Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	7	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Ped Xing				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR 002 to Hoyland 1017 CCTV Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>


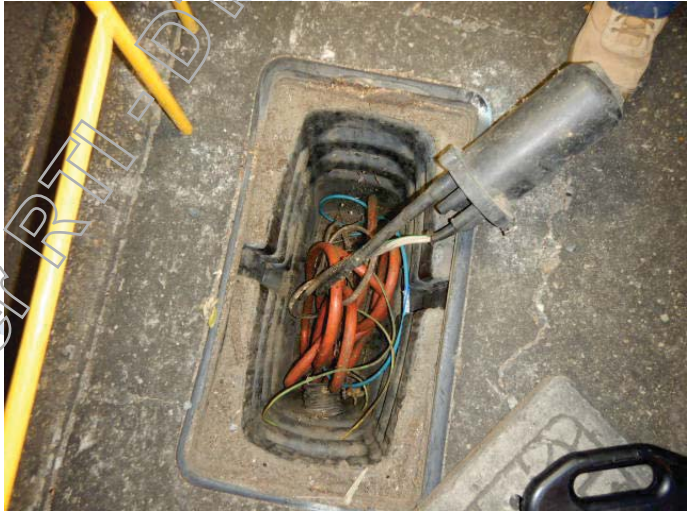

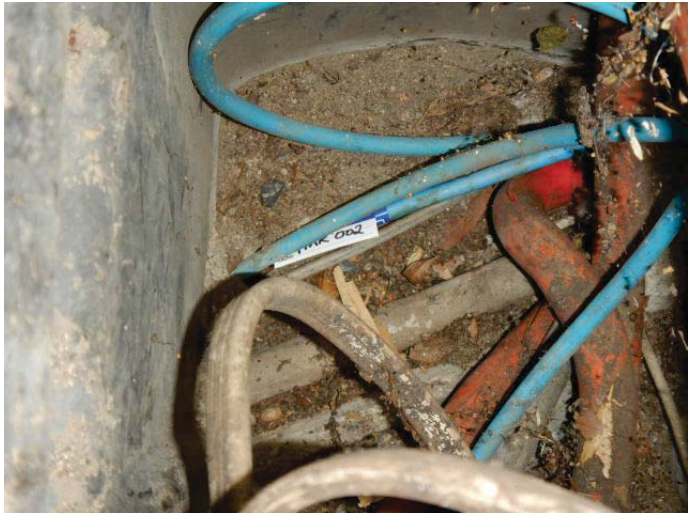
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	8	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St Centre Island				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
PIT TYPE					
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR 002 to Hoyland 1017 CCTV Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	9	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Cabinet M2161				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	3				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR 002 to Hoyland CCTV 1017 Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	10	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Southbound offramp				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	Round				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	BCC 12f – J1 to TMR Splice P702 / TMR001 runs down Southbound offramp / TMR002 goes to Hoyland CCTV 1017 joint from P702 Splice				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	11	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Southbound Offramp				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR001 runs down Southbound offramp to P039 joint / TMR002 goes to Hoyland CCTV 1017 joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>



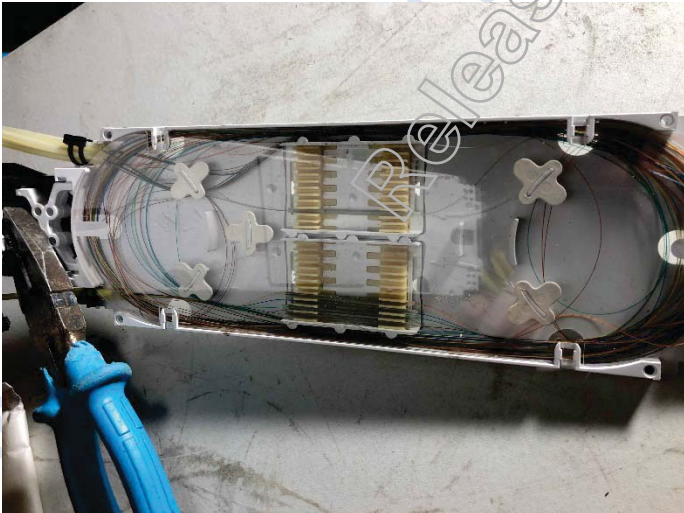
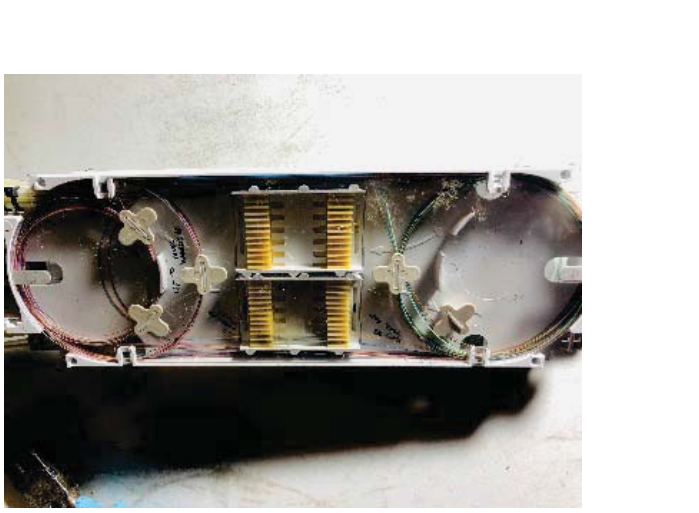
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	12 – TMR pit 702 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St – Southbound Offramp						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>BCC 12f from BCC joint Hoyland St / TMR001 runs down Southbound offramp to P309 joint / TMR002 goes to Hoyland CCTV 1017 joint</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	12 – Joint TMR pit 702 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St – Southbound Offramp						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR001 runs down Southbound offramp to P309 joint / TMR002 goes to Hoyland CCTV 1017 joint</u>						

<p>Photo 1</p> 	<p>Photo 2</p> 
LOCATION	OVERHEAD
<p>Photo 3</p> 	<p>Photo 4</p> 
ENTRY from pit #	EXIT to pit #



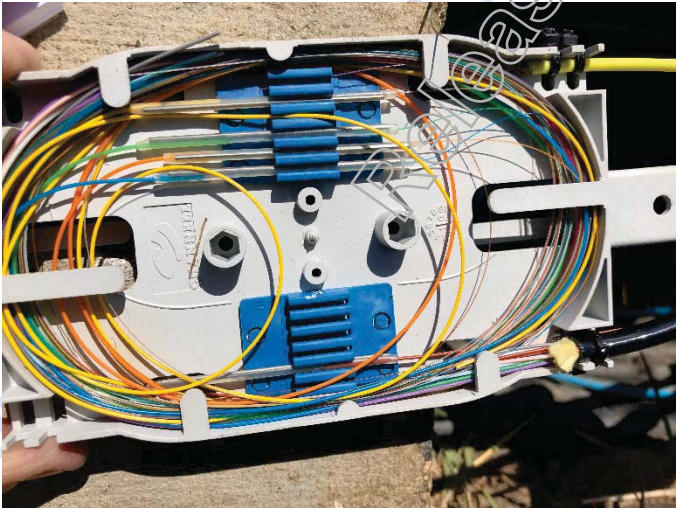
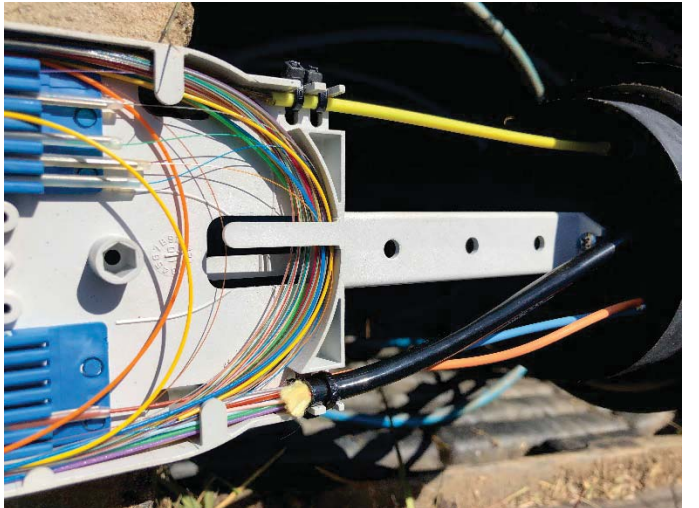
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	13 – CCTV 1017 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St CCTV 1017						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	TMR002 from Hoyland Splice Joint TMR pit 702 / Milspec M2161 to Cabinet M2161 / Mispec to CCTV Camera						

<p>Photo 1</p> 	<p>Photo 2</p> 
LOCATION	OVERHEAD
<p>Photo 3</p> 	<p>Photo 4</p> 
ENTRY from pit #	EXIT to pit #

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT





PIT NUMBER:	13 – CCTV 1017 Joint				DATE	13 th August 2019	
PIT LOCATION:	CCTV Pole in Island – Southbound onramp						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:							

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Webby's Pty Ltd
Released under RTI - DTMR
The Cabling Specialists

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	14 – TMR pit 606	DATE	13 th August 2019		
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	6				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>TMR003 48f to P309 CS797 / TMR004 to M2133</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>



DWA200A
 Drum 2000 x 900 x 800 Wood (200W95)
 9 510835 453249
 Mat. Prod No: 4964972049
 PRINTED BY: RA @ACTOIAU: 13/12/17 09:18:49

PRYSMIAN 8050058858/10
 8020032628/10
UGL ENGINEERING PTY LTD
 BLDG 1A 49 BORTHWICK AVE
 MURARRIE QLD 4172
 5850
82039283A2
 Purch Order No: 4501231392
 Contract No: 60066874/F36SLTGNX9A
 Cust Item No: 36F SM RODENT DIELEC. ARM@CORE NY (QMR)
 Cust Item Desc: ROBERT SAUNDERS 0418 961 309
 Customer & Ph:

PRYSMIAN Material# 60066874 5850M
 9 510835 453249
 Delivery Order: 1011001051
 Mother Batch No: 82039283A 2
 Catalogue Code:
 Approx. Cable kg: 947.700
MADE IN AUSTRALIA
 MANUFACTURED WEEK 31, 01, 2018
 RELEASED 31Jan18 by FRYTESA003
 D-CUT-1C-INT

- SIMON
SYDNEY

Released under RTI 549

CONTINUED ON DRAWING No 333337

1 I.D. CLASS 6 CONDUIT

6400

6450

6500

6550

6600

6650

SUB-DUCT, 28mm I.D. CLASS 6 POLYETHYLENE CONDUIT

1x100Ø HD PVC WHITE
1x100Ø HD PVC ORANGE

SUB-DUCT, 28mm I.D. CLASS 6 POLYETHYLENE CONDUIT

Proposed cabinet CS313, loop housed in type No7 comms pit, 161m to 164.7m

PROPOSED COUNTER & CCTV CABINET CS 313

EXISTING LIGHTING DUCT

NEW No. 4

NEW POLE

No. 8

No. 7

SOUND BARRIER
PROPOSED CCTV 10

AERIAL

CUT EXISTING BARRIER & EXCAVATE SURFACE TO TIE IN BARRIER DUCTING INTO NEW ROAD CROSSING

NEW BARRIER VOID & COVER PLATE TO MRS 11.14 12/99 SEE MRS DWG 14.61

2 x 48f loops for road crossing, 1587m to 1591m & 1670m to 1668m

SUB-DUCT, 28mm I.D. CLASS 6 FIBRE OPTIC ROUTE 48f, Cable 3

Notes

- All new pits & ducts to be supplied & installed as per MRS 11.91 12/99
- The proposed fibre route is indicated with ---
- For clarification of route & plan locations contact Main Road, Metropolitan District Telephone (0418) 716 873
- Please note these plans have been digitized from aerial photographs. Locations are approximate only, for further definition site survey is required.
- Location of all services is the responsibility of the site contractor and shall be ascertained prior to work commencing.
- The location of all CCTV footings, cabinets and Vehicle detector loops are to be pegged by the contractor and approved by the superintendent prior to installation. The contractor shall confirm that the approved location does not conflict with services. The Superintendent requires 24 Hours notice prior to approving each location.

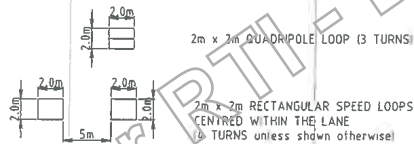
LEGEND

- EXISTING PIT (PROVEN IN FIELD)
- NEW PIT - TO BE INSTALLED (SIZE AS INDICATED)
- FIBRE CABLE ROUTE
- EXISTING 1x100Ø 1500Ø PVC WHITE COMMS DUCT
- EXISTING 1x100Ø HD CLASS 12 PVC ORANGE POWER DUCT
- EXISTING POWER DUCT (SIZE AS SHOWN)
- EXISTING COMMS DUCT (SIZE AS SHOWN)
- EXISTING HELP PHONE
- EXISTING SWITCHBOARD
- CCTV COMMS CABINET
- CCTV CAMERA
- NEW VEHICLE DETECTOR LOOP C/W LOOP FAIL DIRECTION
- EXISTING VEHICLE DETECTOR LOOP

NEW DETECTOR LOOP NOTES

ALL DETECTOR LOOPS TO BE INSTALLED IN ACCORDANCE WITH MRS PLAN No. 14.24

Cable route: --- (ITS) --- (ITS) ---



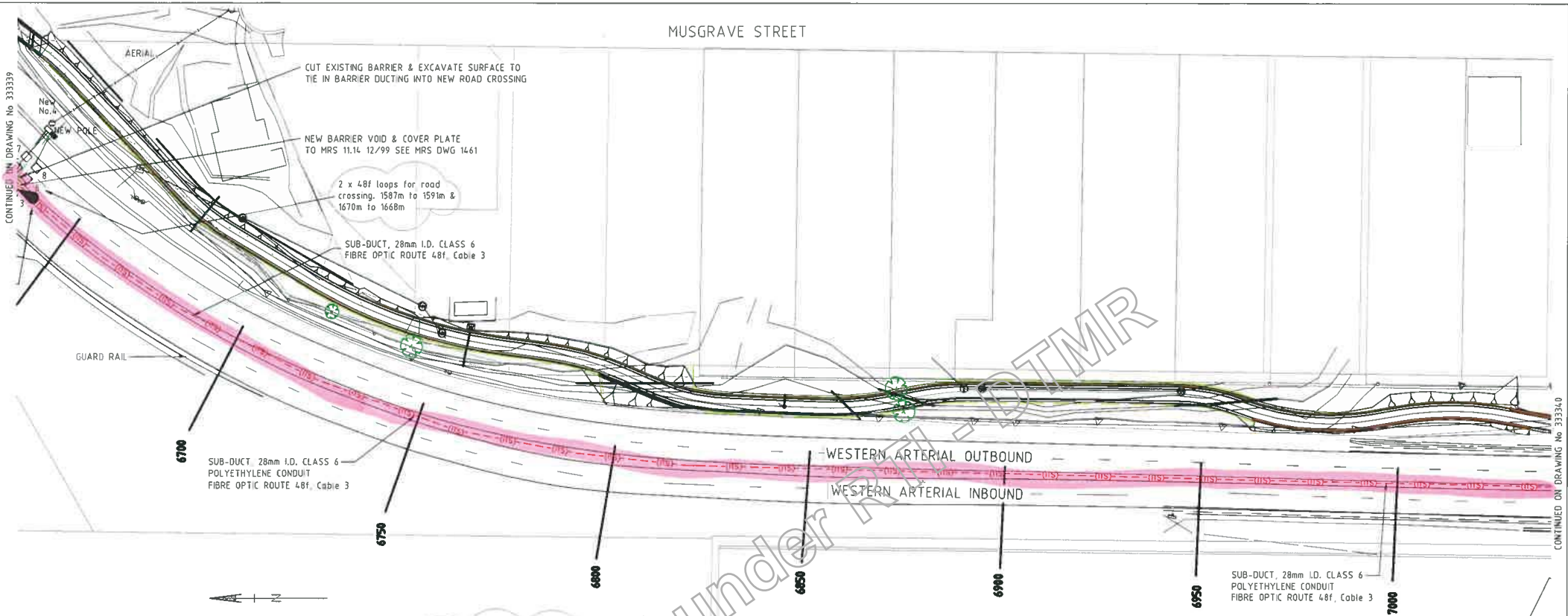
MUSGRAVE STREET

CONTINUED ON DRAWING No 333339

RoadTek Consulting
Queensland Government
33 Halfway St. North
Ph 07 3632 2800 Fax 07 3268 1978 Eagle Form 4009

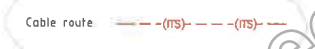
Revisions	Drawn	Checked	Certified	Issue Date	Microfiled	Auxiliary Dwg Nos	For Scheme documentation Print on A3 Paper	Full Size A1	WESTERN FREEWAY ITS TRAFFIC MANAGEMENT OPTICAL FIBRE CABLE ROUTE SITE LAYOUT	Drawn RHW	Designed RDA	Certified G. COQUERAND	Approved R. BLINCO	CONTRACT No MR130053/01	Job No 0140/U18B/069	Drawn No No 21 of 40 Dwg	Dwg No 333339
D AS CONSTRUCTED (19/2/04)	RGS		Noel Peters	27/6/05						Checked RHW	Checked						
C DESIGN UPDATED	R.BASS	MEH	Noel Peters	21/2/03													
B AS CONSTRUCTED (30/9/02)	T.G.	MJS		18/11/02													
A Original Issue																	

MUSGRAVE STREET



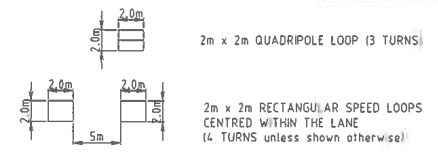
LEGEND

- EXISTING PIT (PROVEN IN FIELD)
- NEW PIT - TO BE INSTALLED (SIZE AS NOMINATED)
- FIBRE CABLE ROUTE
- EXISTING 16mm HD CLASS 12 PVC ORANGE POWER DUCT
- EXISTING POWER DUCT (SIZE AS SHOWN)
- EXISTING 16mm HD CLASS 12 PVC WHITE CONDUITS DUCT
- EXISTING CONDUITS DUCT (SIZE AS SHOWN)
- EXISTING HELP PHONE
- EXISTING SWITCHBOARD
- CCTV COMMS CABINET
- CCTV CAMERA
- NEW VEHICLE DETECTOR LOOP
- C/W LOOP TAKE DIRECTION
- EXISTING VEHICLE DETECTOR LOOP



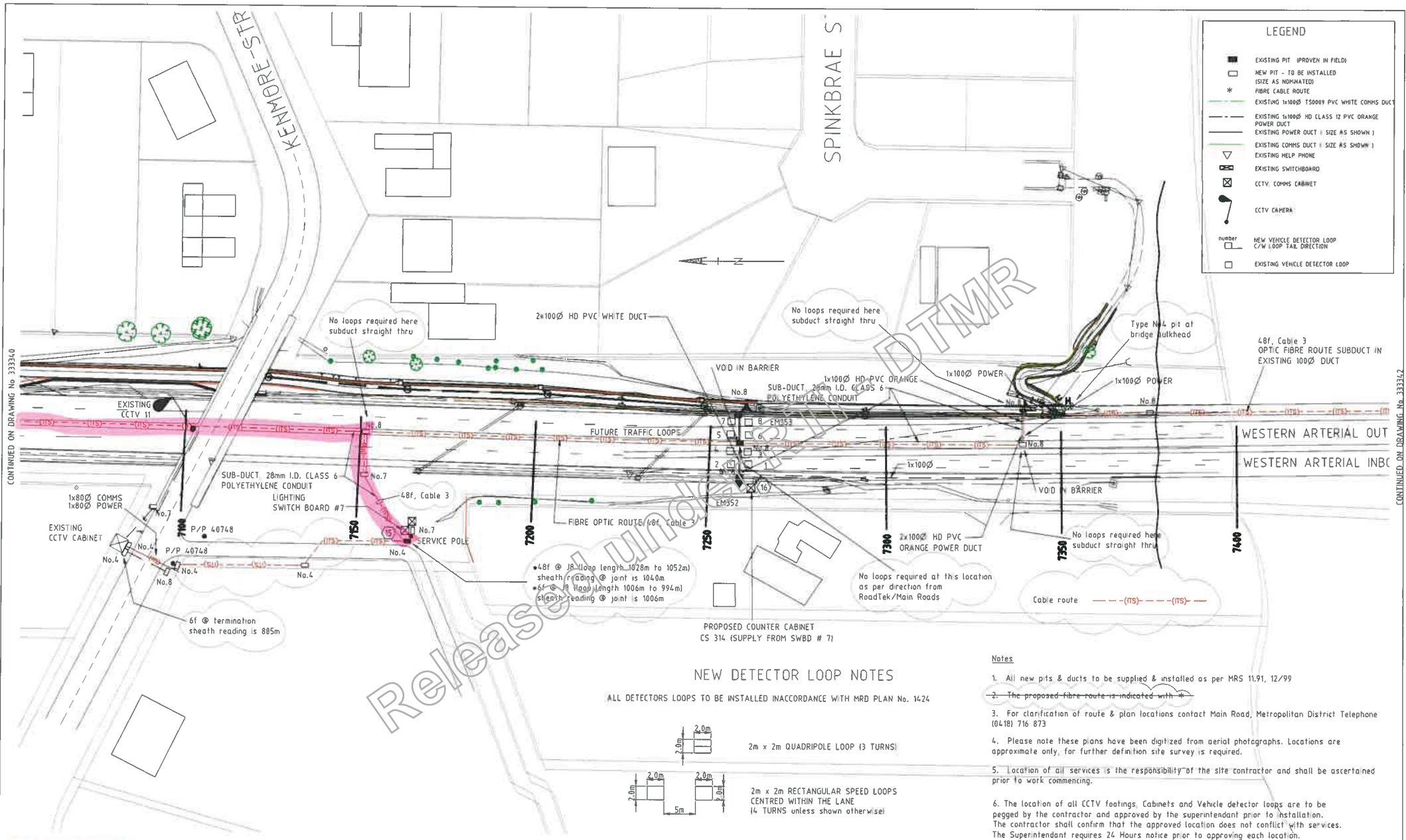
- Notes**
- All new pits & ducts to be supplied & installed as per MRS 11.91, 12/99
 - The proposed fibre route is indicated with
 - For clarification of route & plan locations contact Main Road, Metropolitan District Telephone (0418) 716 873
 - Please note these plans have been digitized from aerial photographs. Locations are approximate only, for further definition site survey is required.
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 - The location of all CCTV footings, Cabinets and Vehicle detector loops are to be pegged by the contractor and approved by the superintendent prior to installation. The contractor shall confirm that the approved location does not conflict with services. The Superintendent requires 24 Hours notice prior to approving each location.

NEW DETECTOR LOOP NOTES
ALL DETECTOR LOOPS TO BE INSTALLED IN ACCORDANCE WITH MRD PLAN No. 1424



RoadTek Consulting
Queensland Government
Main Roads
Ph 07 3632 2000 Fax 07 3268 1978 Eagle Farm 4009

Revisions	Drawn	Checked	Certified	Issue Date	Intified	Auxiliary Dwg Nos	For Scheme documentation	Full Size	WESTERN FREEWAY ITS TRAFFIC MANAGEMENT OPTICAL FIBRE CABLE ROUTE SITE LAYOUT				Queensland Government Department of Main Roads		Drawing No
D AS CONSTRUCTED (19/2/04)	RGS			27/6/05			Print on A3 Paper	A1					CONTRACT No MR130053/01		No 22 of 40 Dwg
C DESIGN UPDATED	R.BASS	MEH	Noel Peters	21/2/03					Scales M 0 5 10 15 20 25 SCALE 1:500				Job No 014.0/U18B/069	Dwg No. 33334.0	
B AS CONSTRUCTED (30/9/02)	A.G.	MJS		18/11/02					Drawn Checked RDA	Designed Checked RDA	Certified Checked G. COUQUERAND	Approved Checked R. BLINCO			
A Original Issue															



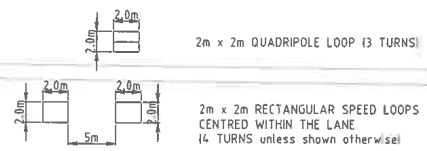
CONTINUED ON DRAWING No 333340

CONTINUED ON DRAWING No 333342

LEGEND	
	EXISTING PIT (PROVEN IN FIELD)
	NEW PIT - TO BE INSTALLED (SIZE AS NOMINATED)
	FIBRE CABLE ROUTE
	EXISTING 1x100Ø HD CLASS 12 PVC WHITE COMMS DUCT
	EXISTING 1x100Ø HD CLASS 12 PVC ORANGE POWER DUCT
	EXISTING POWER DUCT (SIZE AS SHOWN)
	EXISTING COMMS DUCT (SIZE AS SHOWN)
	EXISTING HELP PHONE
	EXISTING SWITCHBOARD
	CCTV COMMS CABINET
	CCTV CAMERA
	NEW VEHICLE DETECTOR LOOP C/W LOOP TAIL DIRECTION
	EXISTING VEHICLE DETECTOR LOOP

NEW DETECTOR LOOP NOTES

ALL DETECTORS LOOPS TO BE INSTALLED IN ACCORDANCE WITH MRD PLAN No. 1424

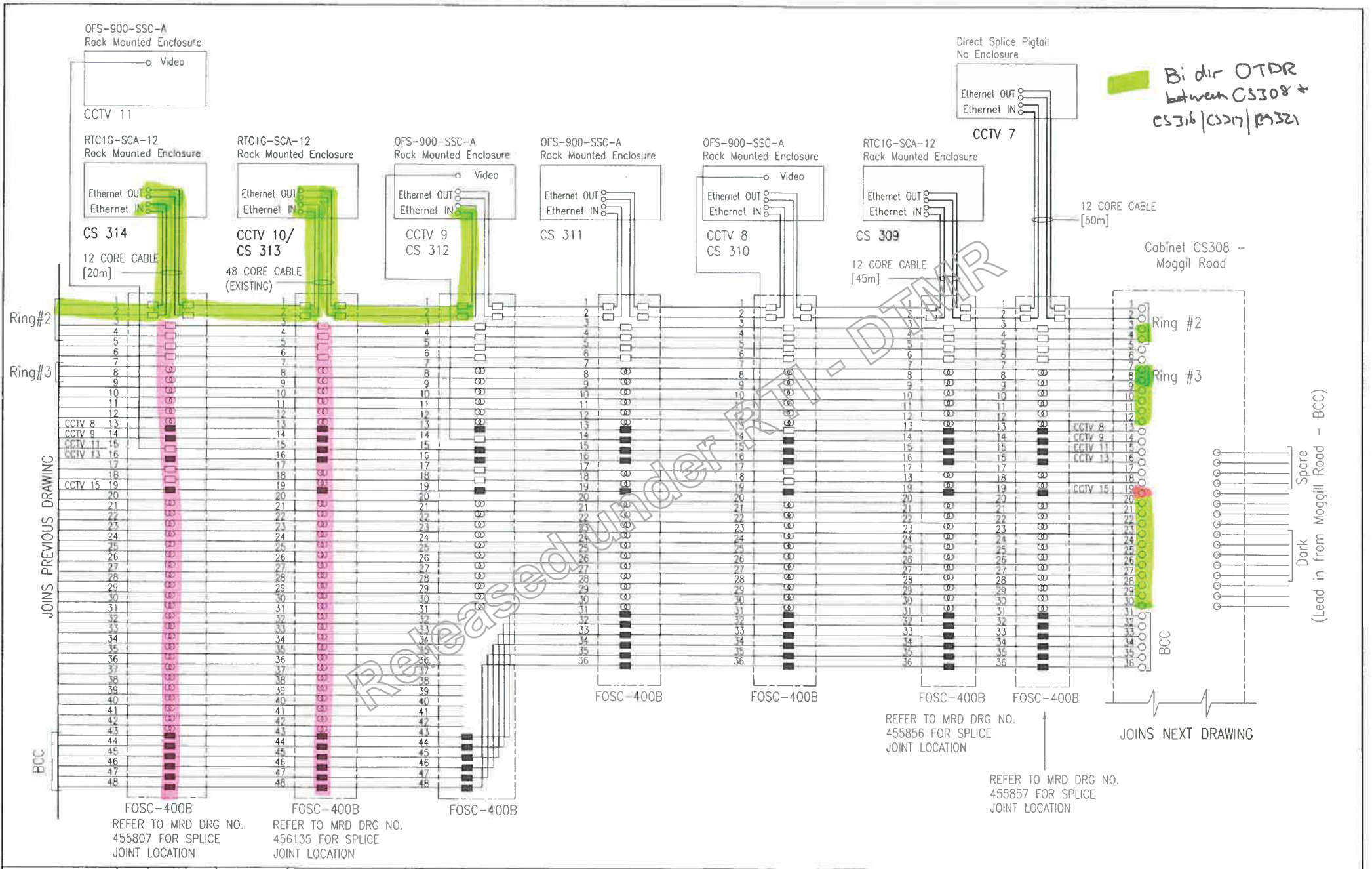


Notes

- All new pits & ducts to be supplied & installed as per MRS 11.91, 12/99
- The proposed fibre route is indicated with #
- For clarification of route & plan locations contact Main Road, Metropolitan District Telephone (0418) 716 873
- Please note these plans have been digitized from aerial photographs. Locations are approximate only, for further definition site survey is required.
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RoadTek Consulting
 Queensland Government
 Main Roads
 Ph 07 3632 2000 Fax 07 3268 1978 Eagle Farm 4009

Revisions		Drawn	Checked	Certified	Issue Date	Microfised	Auxiliary Dwg Nos	For Scheme documentation Print on A3 Paper	Full Size A1	WESTERN FREEWAY ITS TRAFFIC MANAGEMENT OPTICAL FIBRE CABLE ROUTE SITE LAYOUT						Drawing No No 23 of 40 Dwg
D	AS CONSTRUCTED (19/2/04)	RGS			27/6/05					Drawn: RMW Checked: RDA Certified: G. COUQUERAND Approved: R. BLINCO				CONTRACT No MR130053/01	Job No 0140/U18B/069	Dwg No 333341
C	DESIGN UPDATED	R.BASS	MEH	Noel Peters	21/2/03											
B	AS CONSTRUCTED (30/9/02)	A.G.	MJS		18/11/02											
A	Original Issue															



Revisions	Certified	Date	Microfilmed	Associated Job Nos	Survey Data	Scales
A						

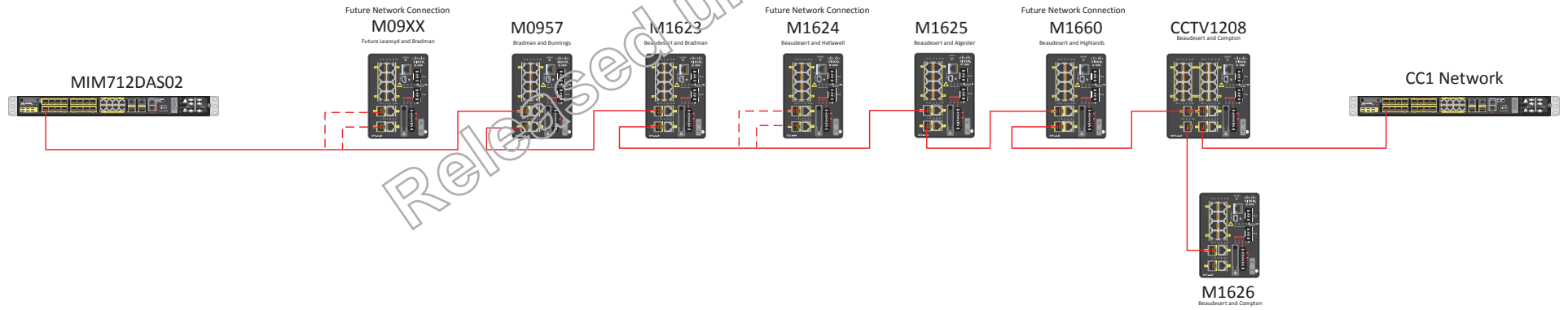
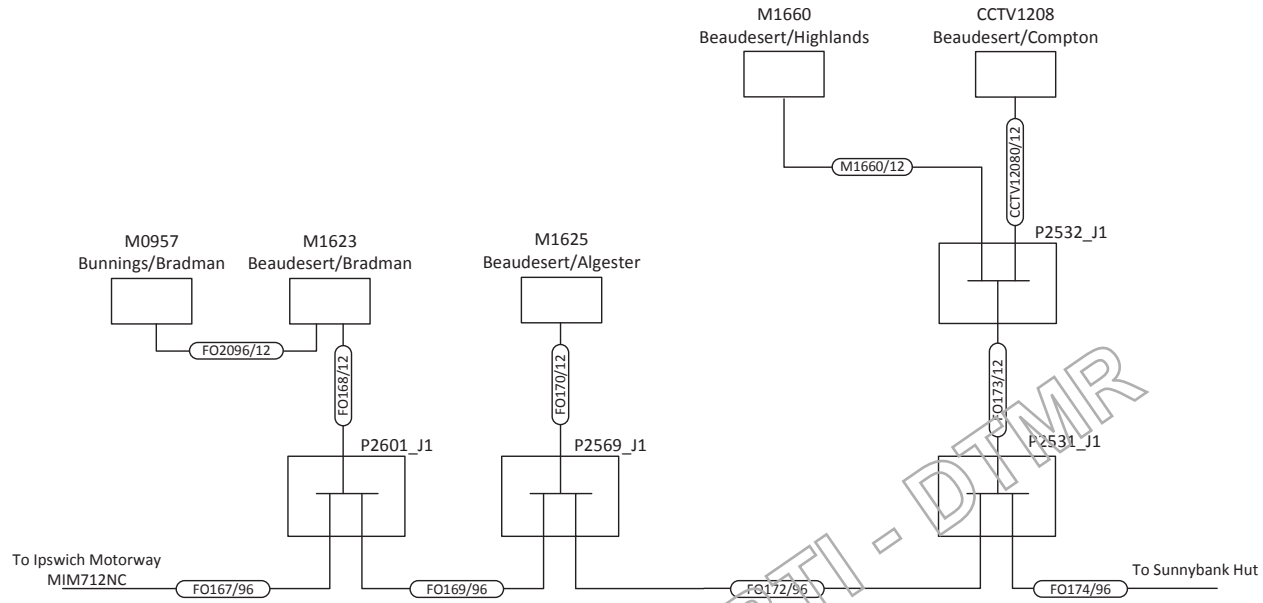
Associated Job Nos		Survey Data		Scales	
Horiz. Datum					
Height Datum					
Survey Books					

BRISBANE CITY			
WESTERN ARTERIAL ROAD			
SINNAMON ROAD TO MOGGILL RD			
Reference Points			
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP
U18A/1	1.94	11.09	1.61
Drawing J. Young		Following RP U18B/3A	
Checked Madigan		Design J. Young	
Verified Madigan		Design Review	
Date:		Engineering Certification T. Ang	
		For scheme approved status refer to Dr. No. of	

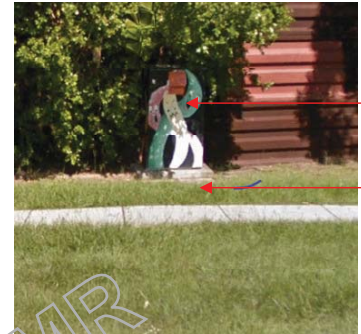
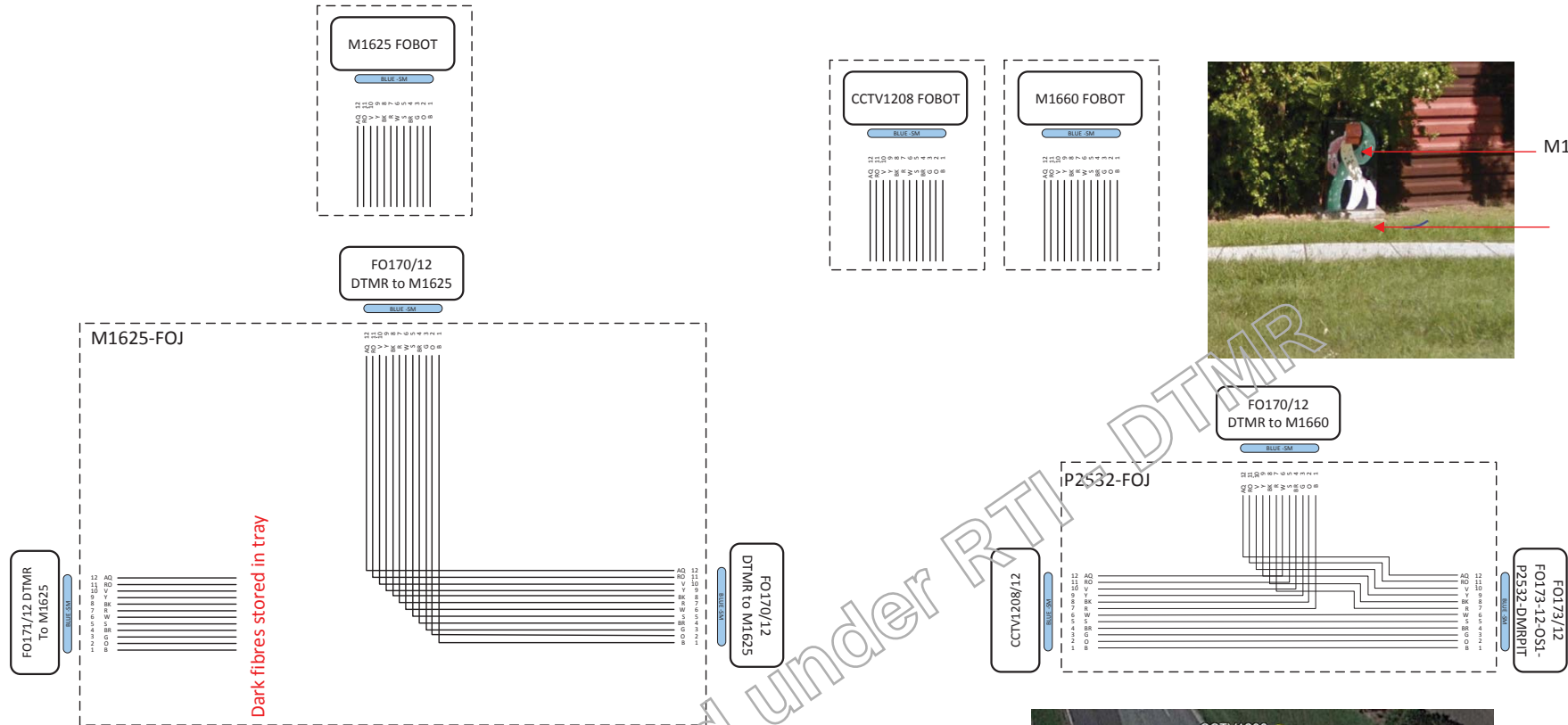
SPlicing DIAGRAM			
SHEET 2 OF 3			
Queensland Government Department of Main Roads			
Job No.	201/U18B/1		
Contract No.	472850 A		
Drawing No.	2 of 3		
Series Number	MRT Working 06/08		

Revisions		Associated Job Nos		Survey Data		Scales	

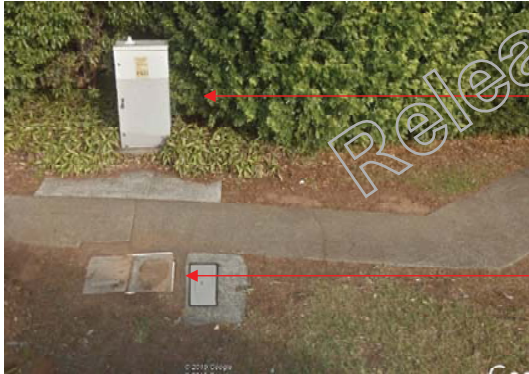
Last Modified: Sep 15, 2009 - 1:30pm



Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data			Not to Scale			Transport & Main Roads				Beaudesert Road Network				Site No.	 Department of Transport & Main Roads	
					Horiz. Datum		WGS84				Metropolitan District									Job No.	
					Height Datum															Contract No.	
					Survey Books															Series No.	
C	Revised IFC	CO	7/08/2018																	A	
B	Issued for Construction	CO	30/07/2018																	1 of 1	
A	Original Issue A3																			1 of 1	



M1660 Traffic Signal Controller
Existing Fibre Pit



M1626 Traffic Signal Controller
Existing Fibre Pit



CCTV1208
P2532-FOJ
Beaudesert Rd & Compton Rd

Revision				Certified	Date	Microfilmed	Associated Job #:	Survey Data			Not to Scale		Transport & Main Roads				Site No.	Queensland Government							
								WGS84					Metropolitan District				Beaudesert Road Network		Department of Transport & Main Roads						
C Revised IFC				CO	7/09/2018		Auxiliary Drawing #:						Reference Points				Drawn by	Drawing	Design	Design	Engineering				
B Issued for Construction				CO	30/07/2018		Classification	Security-in-Confidence			Dimensions shown in millimetres except where shown otherwise		Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Checked	Verified	Review	Certification (RPEQ)				
A Original Issue A3																					C Otto 12762				
Visio Files																				C Otto 12762		Series No.		1 of 1	

P2601_J1
 Bradman St & Beaudesert Rd
 Acacia Ridge

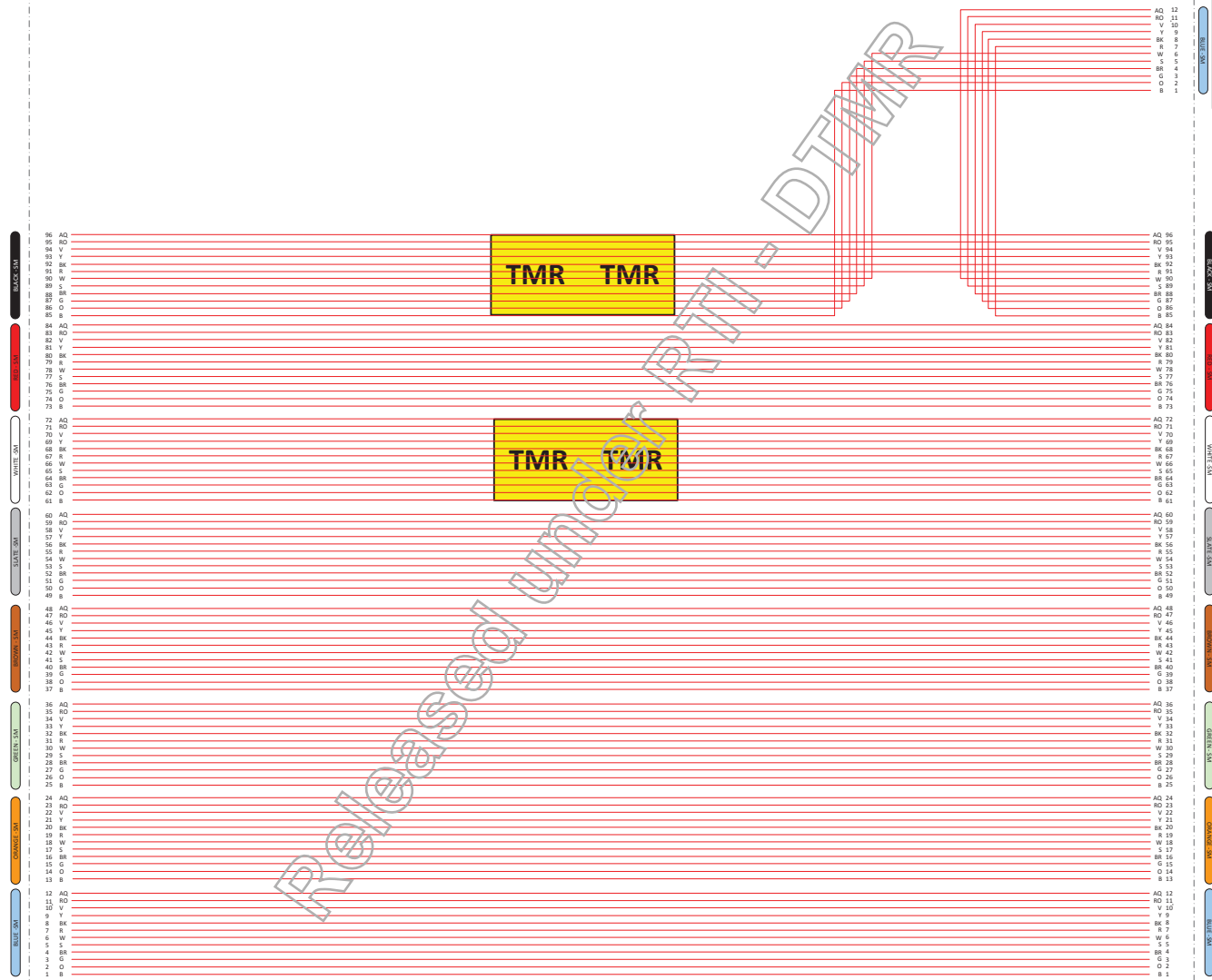
Information Only
 Not part of scope

Note: M0957 Bradman St
 Bunnings Entry has a 12core-
 FO2096/12 direct to M1623

FO168/12
 Bradman /Beaudesert
 Rd M1623 Fobort 2

FO169-96 P2569_J1 Beaudesert & Jackson Rd


FO167-96 to P2627_J1 Paradise & Learoyd Rd



REV	DATE	DESCRIPTION	DRAWN
A	27-2-18	Initial Draft from TNS audit 22-2-18	PJ
B	25-3-19	Draft proposed for TMR M1623 relocation	PJ

Page Name: P2601_J1 Rev B Proposed

Asset Management Branch
 Duct and Fibre Infrastructure Management 266
 George Street
 Brisbane, 4000.



PROJECT: Bligh Tanner Bunnings Bradman Street		PROJECT NO.	
TITLE: P2601_J1 Bradman Street & Beaudesert Road Acacia Ridge		DFIM #222	
DATE: 27/2/2087	DRAWN: Peter Jefferies	DRAWING NO. P2601_J1 Bradman St & Beaudesert Rd Rev A 27Feb18	REV. B
APPROVED:	SCALE: NTS	TMR.yss	

P2569_J1
 Beaudesert Rd & Jackson Rd
 Acacia Ridge

Information Only Not part of scope

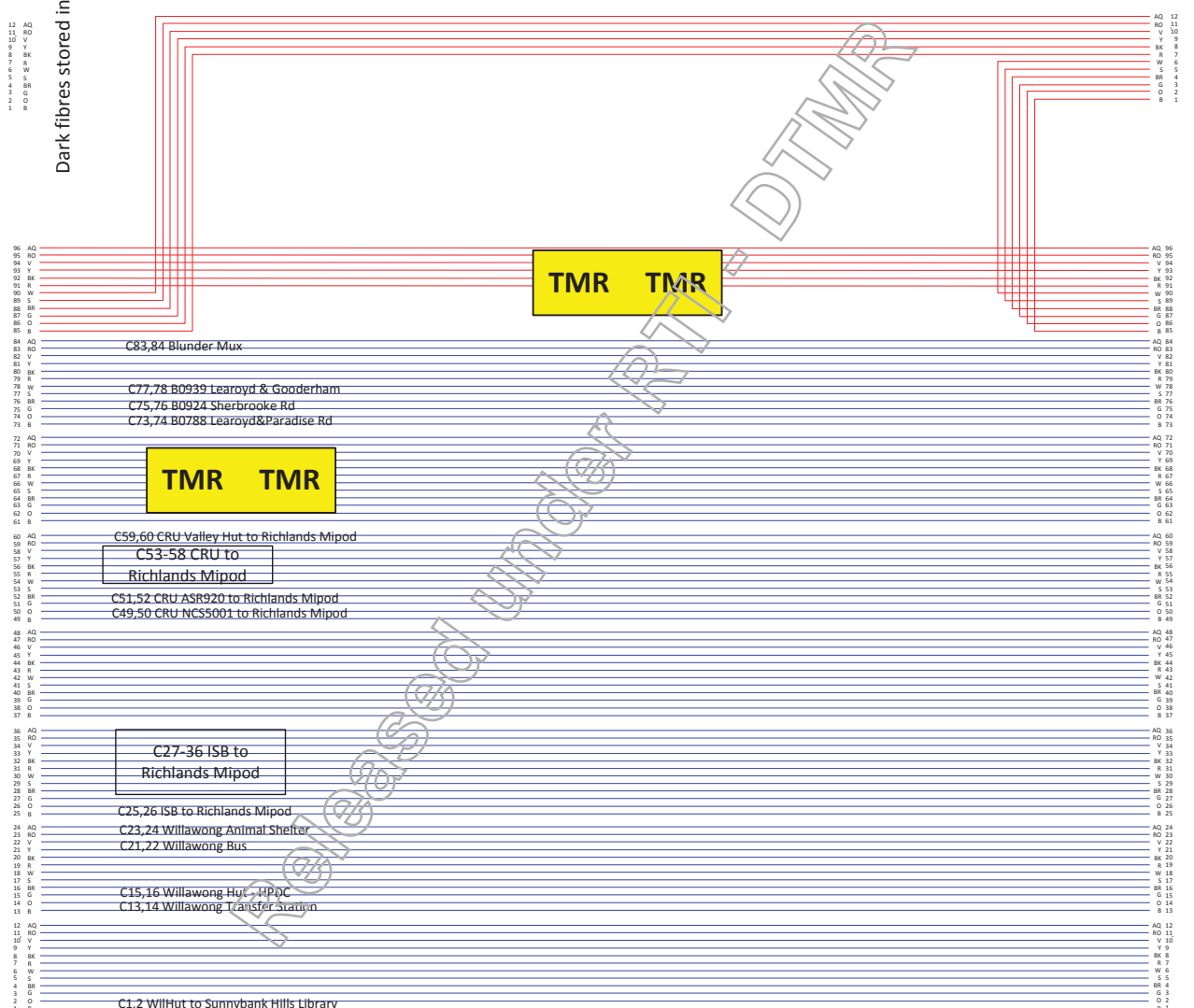
Dark fibres stored in tray

FO171/12 DTMR
 To M1625

FO170/12
 DTMR to M1625

FO169-96 to P2601_J1 Bradman & Beaudesert Rd

FO172-96 P2531_J1 Beaudesert & Compton Rd



REV	DATE	DESCRIPTION	DRAWN
A	6-3-19	As per Stowe Audit 5-2-19	PJ

Page Name: P2569_J1 Rev A 6Mar19



Asset Management Branch
 Duct and Fibre Infrastructure Management 266
 George Street
 Brisbane, 4000.

PROJECT: Bunnings Bradman Street		PROJECT NO. DFIM 222
TITLE: P2601_J1 Bradman Street & Beaudesert Road Acacia Ridge		
DATE: 23/1/2019	DRAWN: Peter Jefferies	DRAWING NO. P2569_J1 Beaudesert & Jackson Rd Rev C Otto 2019_04_02.vsd
APPROVED:	SCALE: NTS	REV. A

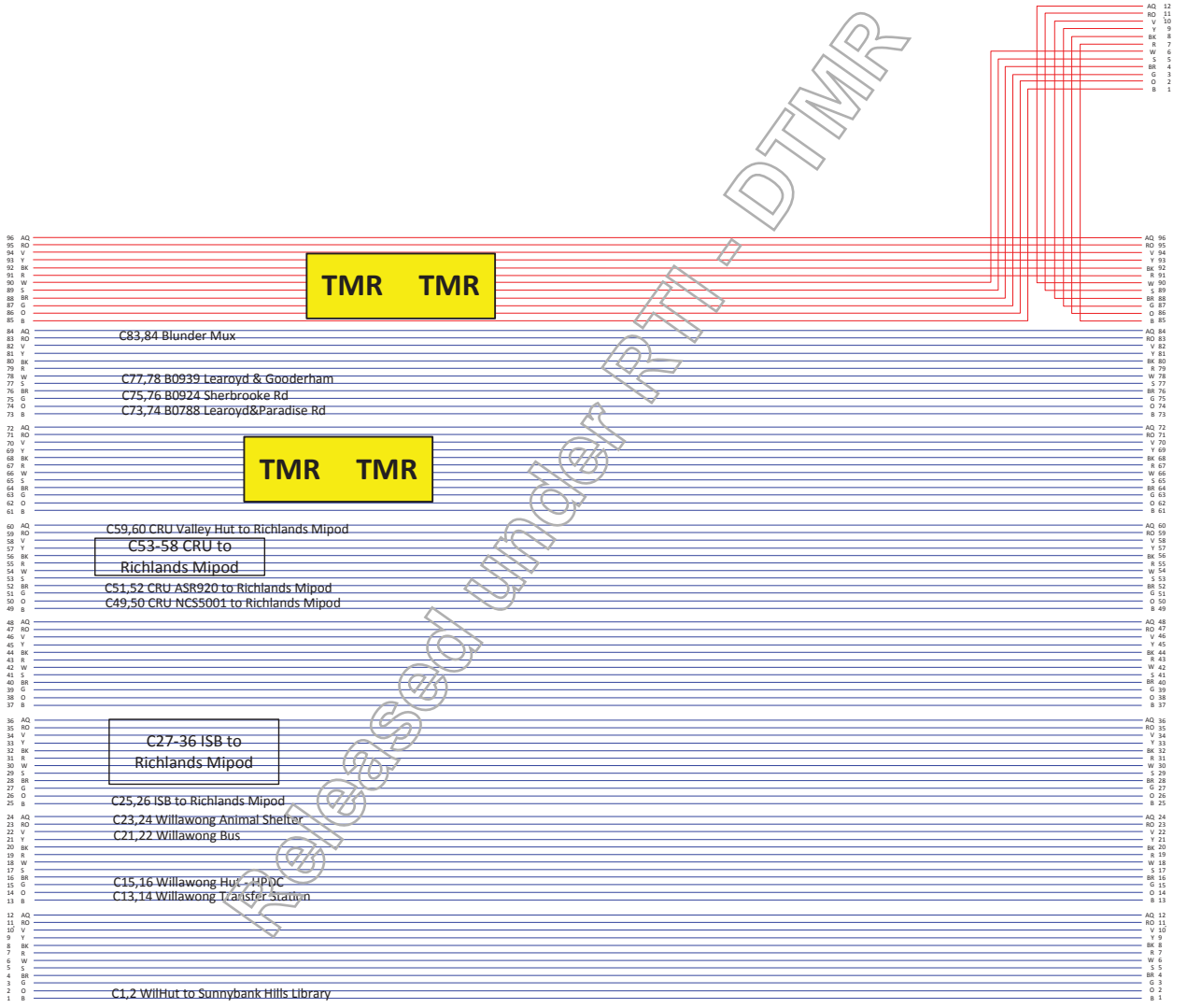
P2531_J1
 Beaudesert Rd & Compton Rd
 Sunnybank Hills

Information Only
 Not part of scope

FO173-12
 DTMR

FO174-96 P2514_J1 Calam Rd Sunnybank


FO172-96 to P2569_J1 Jackson & Beaudesert Rd



REV	DATE	DESCRIPTION	DRAWN
A	6-3-19	As per Stowe audit 5-2-19	PJ

Page Name: P2531_J1 Rev A 6Mar19

Asset Management Branch
 Duct and Fibre Infrastructure Management 266
 George Street
 Brisbane, 4000.



PROJECT: Bunnings Bradman Street		PROJECT NO. DFIM 222	
TITLE: P2531_J1 Compton Road & Beaudesert Road Acacia Ridge			
DATE: 23/1/2019	DRAWN: Peter Jefferies	DRAWING NO. P2531_J1 Beaudesert & Compton Rd Rev B C Otto 2019 06 04	REV. A
APPROVED:	SCALE: NTS		



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

Date: 03/10/2018

Attention: Albert Martin - Road Tek South

Quotation for supply of plant and labor as set out below.
Location: East West Arterial Modification's.

Webby's is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

This offer is based on the following exclusions and conditions unless otherwise noted:

Blocked conduits or pits that require cleanout. Traffic control or permits, specific site agreements allowances or conditions. Outside normal hours of work being 6.00am to 4.00pm M-F unless otherwise noted, latent conditions, water removal, cable lengths above estimated quantities, delays by the principal, conduit, pit's or pipe damaged during the haul procedure. Rock or Shale ground.

The costs for equipment damaged or time lost due to poor conduit / pit installation or bends and or conduit direction changes shall be charged as a variation. Clear conduit locations and routes are to be supplied at the site visit or emailed prior to quote being submitted.

Should Webby's Pty Ltd staff be required to stand down in the course of their work consequent upon a construction delay, interference or obstruction we may charge the principal contractor at a rate of \$59.50 per man, per man hour to a maximum of 8 hours as well as plant and vehicle charges.

Webby's Pty Ltd terms of trade are 30 days from invoice, an order number or letter of offer will be mandatory prior to the commencement of work along with a 50% deposit for new clients.

All WEBBY'S PTY LTD ACCOUNTS ARE MONITORED BY ACTIVE CREDIT SERVICES

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$1325.00

We trust that we have interpreted your requirements accurately and look forward to your reply. If you have any questions or concerns please do not hesitate to contact the estimator as signed.



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

Date: 13/09/2018

Attention: DTMR Albert Martin - RoadTek South, Infrastructure Management & Delivery

Quotation for supply of plant and labor as set out below.

Location: East West Arterial - Toombul

Webby's is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

This offer is based on the following exclusions and conditions unless otherwise noted:

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Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$2750.00

We trust that we have interpreted your requirements accurately and look forward to your reply. If you have any questions or concerns please do not hesitate to contact the estimator on the details above.

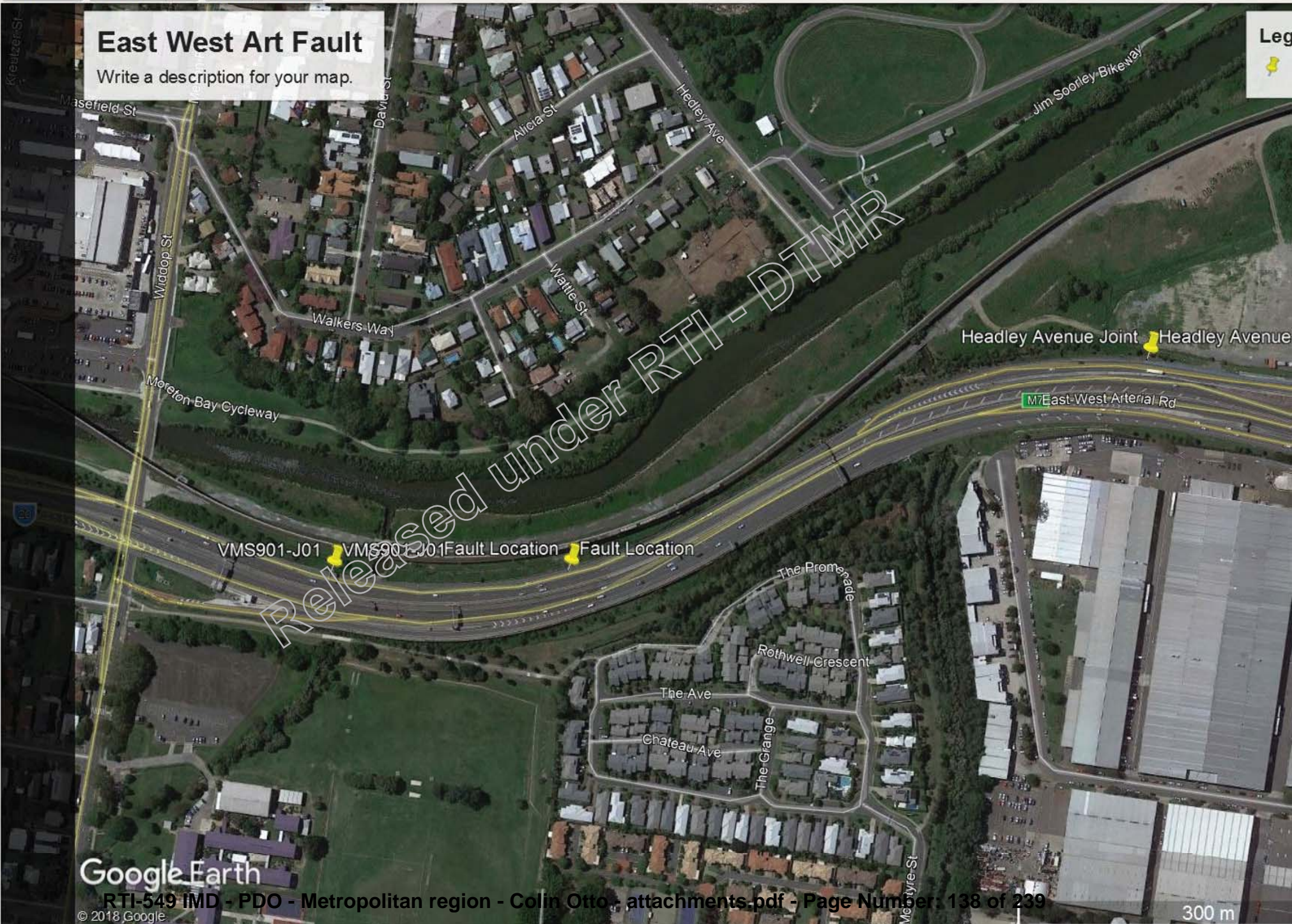


Search Map Options Page Setup... Print... Save PDF... X

East West Art Fault

Write a description for your map.

Leg



Google Earth

300 m

	Tube	Cores	FOBOT	Start		End		Comment	Cores to OTDR	Cores to LSPM
				Tray	Port	Cabinet	Port			
Inner Wrap	Blue	1-12	FOTRBH-FOJ401 Core 1 to 96	1	1-12			Not required	0	0
	Orange	13-16	FOTRBH-FOJ401 Core 1 to 96	2	1-4	VMS902	B/17-20	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	4	4
		17-24	FOTRBH-FOJ401 Core 1 to 96	2	5-12	RSC906 FOPP2	25-32	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	8	8
	Green	25-36	FOTRBH-FOJ401 Core 1 to 96	3	1-12	MAL196 FOPP1	1-12	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
	Brown	37-48	FOTRBH-FOJ401 Core 1 to 96	4	1-12	MAL196 FOPP1	49-60	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
	Slate	49-60	FOTRBH-FOJ401 Core 1 to 96	5	1-12	MAL196	-	Testing not required. Test by BCC after KSD cable install.	0	0
White	61-72	FOTRBH-FOJ401 Core 1 to 96	6	1-12	MAL196	-	Testing not required. Test by BCC after KSD cable install.	0	0	
Outer Wrap	Blue	73-84	FOTRBH-FOJ401 Core 1 to 96	7	1-12	Nundah Tunnel	13-24	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Orange	85-96	FOTRBH-FOJ401 Core 1 to 96	8	1-12	FOJ902 Orange Tube	Core 85	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Green	97-108	FOTRBH-FOJ401 Core 97 to 192	1	1-12	FOJ902 Green Tube	Core 97	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Brown	109-120	FOTRBH-FOJ401 Core 97 to 192	2	1-12	FOJ902 Brown Tube	Core 109	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Slate	121-132	FOTRBH-FOJ401 Core 97 to 192	3	1-12	FOJ902 Slate Tube	Core 121	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	White	133-144	FOTRBH-FOJ401 Core 97 to 192	4	1-12	FOJ902 White Tube	Core 133	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Red	145-156	FOTRBH-FOJ401 Core 97 to 192	5	1-12	FOJ902 Red Tube	Core 145	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Black	157-168	FOTRBH-FOJ401 Core 97 to 192	6	1-12	FOJ902 Black Tube	Core 157	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables	0	0
	Yellow	169-180	FOTRBH-FOJ401 Core 97 to 192	7		KSD Cable	TBA	Testing not required. Test by BCC after KSD cable install.	0	0
	Violet	181-192	FOTRBH-FOJ401 Core 97 to 192	8		KSD Cable	TBA	Testing not required. Test by BCC after KSD cable install.	0	0
			VMS901		A/1-6	RSC902	A/1-6	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	6	6
			VMS901		A/7-8	RSC908/VMS902	B/15-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			VMS901		A/9-10	RSC903	B/13-14	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			RSC906	FOPP2	13-14	RSC903	B/15-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			RSC906	FOPP2	15-16	RSC908/VMS902	B/13-14	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
			RSC906	FOPP2	1-12	MAL196 FOPP1	25-36	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
			RSC906	FOPP2	33-36	CS515A FPP1	13-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	4	4
			CS515	FPP1	1-12	CS515A FPP1	1-12	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	12	12
			RSC906	FOPP2	D/37-42	M1210	1-6	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables.	0	0
			RSC906	FOPP2	D/43-48	Nundah Tunnel (pit above tunnel)	7-12	Splice pigtail onto Core 7 and Bidirectional OTDR with 1000m launch/receive cables.	0	0
			M1210	N/A	7-12	Nundah Tunnel (pit above tunnel)	1-6	Splice pigtail onto Core 1 and Bidirectional OTDR with 1000m launch/receive cables.	0	0
Total									78	78

FOBOT	Start		End		Comment	Cores to OTDR	Cores to LSPM
	Tray	Port	Cabinet	Port			
FOTRBH-FOJ401	2	5-12	RSC906 FOPP2	25-32	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	8	8
VMS901		A/1-6	RSC902	A/1-6	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	6	6
VMS901	N/A	A/7-8	RSC908/VMS902	B/15-16	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
VMS901	N/A	A/9-10	RSC903	B/13-14	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	2	2
RSC906	FOPP2	33-36	CS515	1-4	Bidirectional OTDR with 1000m Launch/Receive Cables and LSPM	4	4
RSC906	FOPP2	D/37-48	Nundah Tunnel	Unterminated	One way OTDR from RSC906 only	12	0
Total						34	22

Released under RTI - DTMR



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

Date: 26/09/2018

Attention: Albert Martin - Road Tek South

Quotation for supply of plant and labor as set out below.
Location: East West Arterial Modification's.

Webby's is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

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All WEBBY'S PTY LTD ACCOUNTS ARE MONITORED BY ACTIVE CREDIT SERVICES

Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$5695.00

We trust that we have interpreted your requirements accurately and look forward to your reply. If you have any questions or concerns please do not hesitate to contact the estimator as signed.



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

Date: 13/08/2018

Attention: Albert Martin - Road Tek South

Quotation for supply of plant and labor as set out below.
Location: East West Arterial Modification's.

Webby's is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

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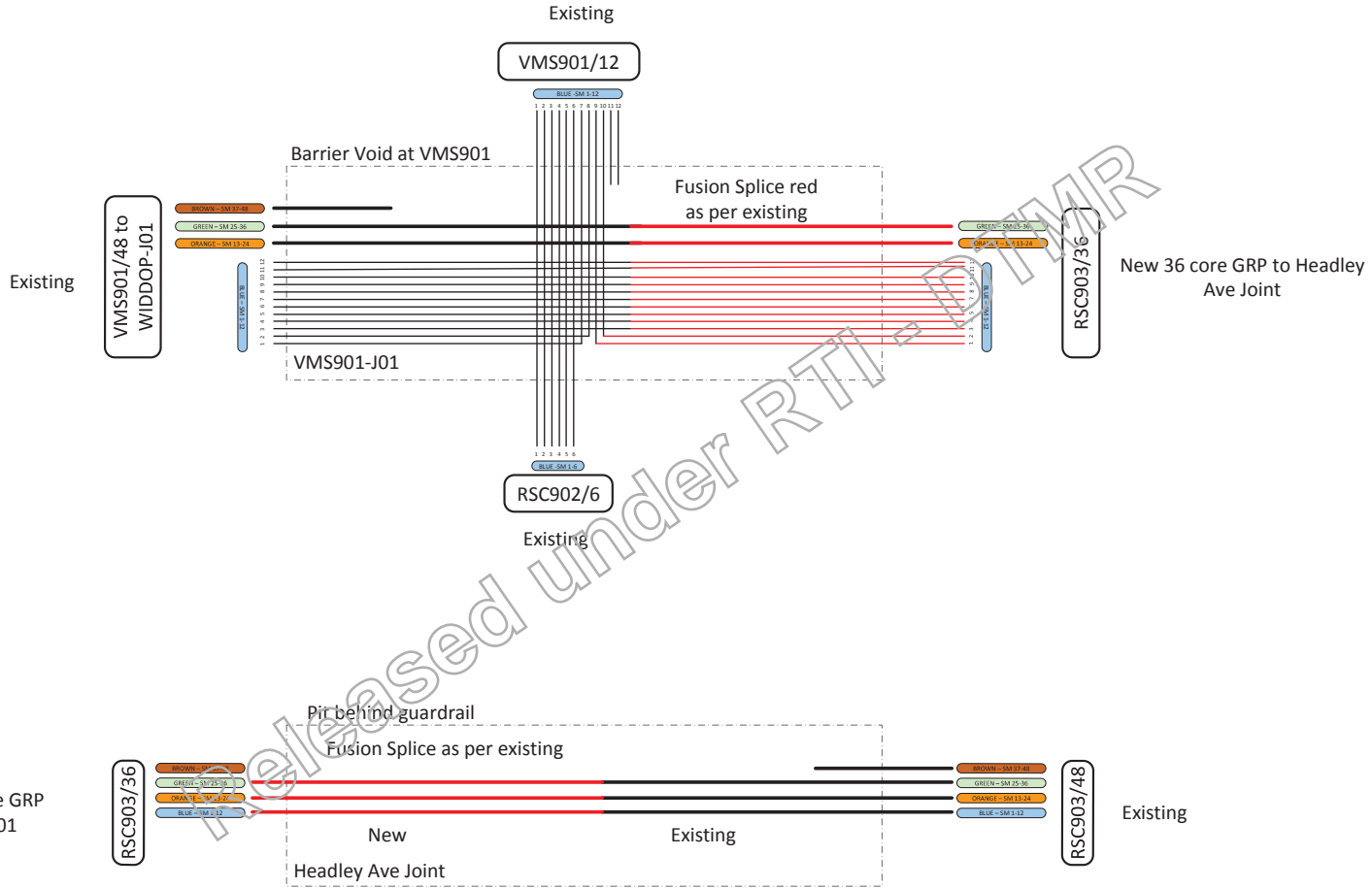
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Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$4160.00

We trust that we have interpreted your requirements accurately and look forward to your reply. If you have any questions or concerns please do not hesitate to contact the estimator as signed.



Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				Site No.	Queensland Government						
						Horiz. Datum	WGS84		Metropolitan District					Department of Transport & Main Roads						
					Auxiliary Drawing #:	Height Datum		Dimensions shown in millimetres except where shown otherwise	Reference Points				Drawn by Colin Otto 19/03/2019	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEG) C Otto 12762	Contract No.		A
B	Issued for Construction	CO	19/03/2019		Survey Books				Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP						Following RP	Drawing No.	
A	Original Issue A3				Classification	Security-in-Confidence		© Copyright TMR 2016												

Traffic Signal Top Hat FOBOT Upgrades					
Site ID	Description	FOBOT Part Number	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity	Price
M1108	Gympie and Strathmore/Castle	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1111	Gympie and Kitchener/Sport	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M1113	Gympie and Rode	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1114	Gympie and Wallace	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1116	Gympie and Hamilton	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1117	Gympie and Bouchard	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1131	Gympie and Banfield	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1118	Gympie and Murphy	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1119	Gympie and Webster	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1120	Gympie and Darwin	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1121	Gympie and Albany Creek	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1128	Gympie and Aspley Ped Xing	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1122	Gympie and Robinson	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M1126	Gympie and Gayford	FDE-12-SCA-1-S	Sheet 6 - Detail 3	12	
M1127	Albany Creek and Maundrell/Gayford	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1138	Gayford and Hypermarket	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1129	Albany Creek and Hypermarket	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1126	Gympie and Gayford	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M1130	Gympie and Zillmeré	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M1134	Gympie and Grahams	FDE-12-SCA-1-S	Sheet 1 - Detail 2	6	
M8054	Beams and Holy Spirit	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
C5792/GA01	Gympie and Caltex SS	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M2133	Strathpine and Bald Hills	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	
M2161	Strathpine and Hoyland	FDE-12-SCA-1-S	Sheet 1 - Detail 1	4	

ITS Cabinet FOBOT Upgrades					
Site ID	Description	FOBOT Part Number	Applicable Fobot Splicing Detail	Splice/Pigtail Quantity	Price
C5793	Gympie Arterial - Gympie Rd Off Ramp NB	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	
C5794	Gympie Arterial Linkfield Rd Off Ramp SB	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	
C5795	Gympie Arterial - Telegraph Rd	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	
C5796	Gympie Arterial - Grand St	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	
C5797	Gympie Arterial - Humrich Place	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	
C5798	Gympie Arterial - Midland St	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	
C5799	Gympie Arterial - Gravel Plant Exit	RTCIG-SCA-24-FS-A4-P4-Z-5M	Sheet 1 - Detail 1	4	

Fiber Optic Joint Modifications					
Site ID	Description	Joint Part Number	Applicable Fobot Splicing Detail	Splice Quantity	Price
CCTV0212	Gympie and Gayford	New GC02-8C6-NV	Refer Sheet 6	6	
P291	M1132 Gympie and Beams	Existing	Refer Sheet 5	1	
C5792/GA01	VMS at Caltex Service Station	New GC02-8C6-NV	Refer Sheet 7	48	
P74	M1111/CCTV0204 Kedron St	Existing	Refer Sheet 3	3	
P143	M1131 Gympie and Banfield	Existing	Refer Sheet 3	1	
P227	M1126 Gympie and Gayford	Existing	Refer Sheet 2	6	
P306	C5795 Linkfield Rd NB On Ramp	Existing	Refer Sheet 2	6	
P221	M1122 Gympie and Robinson	Existing	Refer Sheet 4	3	
P254	M1134 Gympie and Graham	Existing	Refer Sheet 4	1	

TC req
TC req.
Complete together
TC req
Daywork
Daywork
Daywork
Daywork
TC req

VIP of Existing FOBOTs			
Site ID	Description	VIP Port Quantity	Price
M1103	Gympie and Stafford	10	
CCTV0202	Gympie and Leckie CCTV	4	
M1101	Gympie and Kedron Park	4	
M1107	Gympie and Sadlier	4	



Tony Webb
Director

Office: 3266 3040
Mobile: 0409 728 923
Email: tony@webbys.net.au

Unit 6/37 Northlink Place Virginia 4014

Date: 23/08/2018

Attention: Adrian Villas - Senior Engineer (Electrical)

Quotation for supply of plant and labor for cable installation including roping as set out below.
Location: GUN Patching requirements from BMTMC to QLD Transurban cabinet Nudgee Road

Webby's is pleased to offer the quote below for the works as requested in, our price for these works is exclusive of GST and is valid for 30 days from the date of this submission.

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Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

TOTAL ex GST: \$2370.00

**We trust that we have interpreted your requirements accurately and look forward to your reply.
If you have any questions or concerns please do not hesitate to contact the estimator on the details above.**

Legend





Legend

Unsure of route from P309 to P702 Hoyland St

P19-P309 Splice

P18

P17-P603

P16-P604

P14-P606 Splice

P15-P605

M2133

TMR003 - 487 P606 Splice to P309 Splice
TMR004 - P606 Splice to M2133

Google Earth
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50 m







Released Under RTI - DTMR







PA ENCOLO

Released under RTI - DTMP





JOB NUMBER:

JT-C-1044

FOR: VMS B LEMKE ROAD

GATEWAY ADDED LANE


ISSUE: 120

PLAN DESCRIPTION	DRG NUMBER	REV
VMS TYPE B - INDEX SHEET	JT-C-1044-ME-021	120
VMS TYPE B - GENERAL NOTES	JT-C-1044-ME-022	120
VMS TYPE B - SITE LAYOUT	JT-C-1044-MC-023	120
VMS TYPE B - SUPPORT STRUCTURE	JT-C-1044-MA-024	120
VMS TYPE B - GANTRY DETAIL	JT-C-1044-MA-025	120
VMS TYPE B - ACCESSWAY DETAIL	JT-C-1044-MA-026	120
VMS TYPE B - COLUMN DETAIL	JT-C-1044-MA-027	120
VMS TYPE B - LADDER DETAIL	JT-C-1044-MA-028	120
VMS TYPE B - FABRICATION DETAIL	JT-C-1044-MB-029	120
VMS TYPE B - EXTRA DETAILS	JT-C-1044-MB-030	120
VMS TYPE B - GANTRY ALIGNMENT	NOT INCLUDED IN THIS RELEASE	120


Released under RTI DTMR

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

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J1-LED ITS PTY LTD
2/57-59 STEEL STREET
CAPRALABA QLD 4157
PH 1300 88 44 73
ABN 13 141 424 191



APPR.	DATE	NAME
CHECK		
DRAWN	27/09/13	AJV

ISSUED FOR CONSTRUCTION	
SCALE NTS	
GAL VMS B LEMKE ROAD	
VMS TYPE B INDEX SHEET	
JT-C-1044-ME-021	
FILENAME	SHEETS

GENERAL NOTES

- THE DESIGN AND DETAILS SHOWN ON THESE DRAWINGS ARE APPLICABLE TO THIS PROJECT ONLY AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART OR BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER WITH WHOM THE COPYRIGHT RESIDES.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS, OTHER CONSULTANTS' DRAWINGS, SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATIONS AS DETAILED HERE-IN.
- ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON-SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS ONLY DETAILED DESIGN LAYOUTS WITH CO-ORDINATE REFERENCES TO BE USED.
- ALL SAFETY ON-SITE IS THE BUILDER'S RESPONSIBILITY.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

GENERAL DESIGN CRITERIA FOR SIGN SUPPORT STRUCTURES IN PARTICULAR:

- SWTC / QTRM DESIGN GUIDELINES 2009
 - AS 5100.2 - 2004 BRIDGE DESIGN LOADS
 - AASHTO SECTION II " STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS", 4th Edition WITH INTERIM TO 2006 FOR FATIGUE DESIGNS
 - AS 5100.6 SECTION 13 - FATIGUE
 - AS 1657 - FIXED PLATFORMS & LADDERS ETC.
 - NATURAL VIBRATION FREQUENCY - FIRST MODE > 1Hz
- LOADING.
 - WIND LOADS ARE IN ACCORDANCE WITH AS-1170 AS FOLLOWS
VR = 63 m/s (ARI 2000 years) - Reg. B
VR = 38 m/s (ARI 20 years) - Reg. B
 - DEAD & LIVE LOADS ARE IN ACCORDANCE WITH AS/NZ1170:1:2002 AND C dgn = 0
SWTC 2009.
3 kPa + 5 kN Over 1m² IN WORST COMBINATION.
 - LIMIT STATE (WL + DL) (LL + DL)
 - BASE PLATE LOADS.

MUX (K/m)	= 325	-
MUZ (K/m)	= 116	272
TORSION (K/m)	= 198	-
AXIAL (KN)	= 42.4	73.6
SHEAR (KN)	= 46.4	-
 - GANTRY DEFLECTIONS (mm)

HORIZONTAL	VERTICAL
-DL ONLY	-
-DL + LL	129
WL + DL	113

 DEFLECTION LIMIT ADOPTED FROM SWTC 2009 = 150mm

MASONRY NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3700:2001 - SAA MASONRY CODE.
- BRICKS SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 25 MPa MORTAR TO BE MIXED IN THE PROPORTIONS 1:1:6 CEMENT:HYDRATED LIME:SAND (OR EQUIVALENT SAND/CEMENT MORTAR WITH PLASTICISERS) AND MORTAR COMPRESSIVE STRENGTH AT 28 DAYS TO BE 12 MPa MINIMUM.
- ALL WALLS SUPPORTING SLABS AND BEAMS SHALL HAVE TWO LAYERS OF MALTHOID LAID ON 10mm LEVEL BED BETWEEN THE CONCRETE AND MASONRY U.N.O.
- ALL BRICKWORK SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN CONCRETE.
- REINFORCED CONCRETE BLOCKWORKS SHALL COMPLY WITH THE FOLLOWING U.N.O.:
 - BLOCKS SHALL BE STRENGTH GRADE 12 CONFORMING TO AS1500.
 - MORTAR SHALL COMPRISE 1:0.25:3 - CEMENT:LIME: SAND
 - MORTAR COMPRESSIVE STRENGTH AT 28 DAYS TO BE 11 MPa MINIMUM.
 - PROVIDE CLEAN OUT HOLES AT BASE OF ALL WALLS AND ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FIN.
 - CORE FILLING GROUT TO BE F'C = 32 MPa, 10mm AGGREGATE, 230mm SLUMP +/- 30mm.
 - CORE FILL IN MAXIMUM 1800mm HIGH LIFTS, OR AS APPROVED BY ENGINEER.
 - PROVIDE 65mm COVER TO REINFORCEMENT FROM THE OUTSIDE OF THE BLOCKWORK TO ALLOW ADEQUATE GROUT COVER.
- PROVIDE VERTICAL CONTROL JOINTS AT 10m MAXIMUM CENTERS.
- BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN OR WEEP HOLES.

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS QUALITY AND TESTING SHALL BE IN ACCORDANCE WITH AS3600:2009 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
 - CONCRETE MRTS 70.
 - REINFORCING STEEL MRTS 71.
- CONCRETE QUALITY
THE CHARACTERISTIC COMPRESSIVE STRENGTH AND SLUMP OF THE CONCRETE MUST NOT BE LESS THAN THE VALUE REQUIRED UNDER PSTS ABOVE OR THE FOLLOWING MINIMUM CRITERIA:

ELEMENT	F'C MPa (28 days)	SLUMP mm	AGGREGATE SIZE mm
SLABS	40 MIN.	80 MAX.	20
PIERS & FOOTINGS	40 MIN.	80 MAX.	20

PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3600.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- ALL REINFORCEMENTS SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.
- CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS WHERE INDICATED SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF AIR POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY APPLICATION OF AN APPROVED CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED.
- ALL REINFORCING TO BE INSPECTED BY THE ENGINEER AND/OR A SUITABLY QUALIFIED PERSON. INSPECTIONS SHOULD BE ARRANGED A MINIMUM OF 48 HOURS PRIOR TO POUR. CONCRETE SHALL NOT BE PLACED UNTIL REINFORCEMENT INSPECTED AND WRITTEN APPROVAL OBTAINED.
- CONDUITS, PIPES ETC., SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB OR PIER AND SPACED AT NOT LESS THAN 4 DIAMETERS APART.
- REINFORCEMENT SYMBOLS:
N DENOTES NORMAL DUCTILITY GRADE B500 LL TO AS/NZS4671
R DENOTES GRADE 230R HOT ROLLED PLAIN BARS TO AS1302
SLD DENOTES HARD-DRAWN DEFORMED REINFORCED FABRIC TO AS1304
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- WELDING OR BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- SLAB FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm.
- TRENCH MESH SHALL BE SPLICED, WHERE NECESSARY, BY A MINIMUM LAP OF 800mm.
- THE LAP LENGTH OF BAR SPLICES SHALL NOT BE LESS THAN 800mm OR 25 BAR DIAMETERS WHICH EVER IS THE GREATER.
- CLEAR CONCRETE COVER TO REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

EXPOSURE	CONCRETE COVER
CAST AGAINST GROUND	80mm
EXTERNAL EXPOSED SURFACE	60mm
INTERNAL EXPOSED SURFACE	45mm
- ALL REINFORCING SHALL BE ACRS CERTIFIED.

STEELWORK NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1100 - BRIDGE DESIGN, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS AS NOTED BELOW. STRUCTURAL STEEL SHALL ONLY BE CARRIED OUT BY A MAIN ROADS APPROVED FABRICATOR.
 - MRTS 78 NOV 2009 - FABRICATION OF STRUCTURAL STEELWORK APPLICABLE STANDARD SWTC 2009
- UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS/NZS3679:1 GRADE 300 OR GREATER.
- ALL BOLTS - SUPPLIED IN ACCORDANCE WITH MRTS 78 AND TO COMPLY WITH:

STANDARDS

 - 4.6/S COMMERCIAL BOLTS OR GRADE 4.6 TO AS1111 - SNUG TIGHTENED
 - 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 - SNUG TIGHTENED.
 - 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 - FULLY TENSIONED TO AS1511 AS A BEARING JOINT.
 - 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 - FULLY TENSIONED TO AS1511 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.

PROCEDURES



 - ALL NUTS AND BOLTS TO BE HOT DIP GALVANIZED TO AS1214.
 - NO BENDING OF BOLTS SHALL HAVE LESS THAN 2 BOLTS.
 - TB AND TF BOLTS TO BE INSTALLED USING APPROVED LOAD INDICATING WASHERS
 - PLATE TO COMPLY WITH AS/NZS3678.
- BOLTING PROCEDURES FOR T/BOLT/F CONNECTIONS DEFINED IN HIGH STRENGTH BOLTS & NUTS.
 - UNLESS NOTED OTHERWISE ALL WELDS SHALL BE MINIMUM 6mm FULL PENETRATION BUTT WELDS TYPE SP USING HYDROGEN CONTROLLED E49XX / W503 ELECTRODES - BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS TO AS1554.
- CHS, RHS AND SHS TO THE REQUIREMENTS OF AS/NZS1163 SHALL BE GRADE C350L0.
- UNLESS NOTED OTHERWISE ALL CLEAT PLATES TO BE MINIMUM 10mm.
- NO CONCRETE ENCASEMENT OF STEELWORK.
- ALL STEELWORK TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS 4680.
- ALLOWANCE TO BE MADE TO BOLT HOLES FOR THE HOT DIP GALVANISING.
- PROVIDE STEEL PLATES TO ALL HOLLOW SECTIONS.
- IT IS THE BUILDERS RESPONSIBILITY THAT ALL STEELWORK BE SECURED THROUGHOUT CONSTRUCTION.
- THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING CLEATS AND OTHER ATTACHMENTS.
- STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT UNLESS OTHERWISE SPECIFIED.

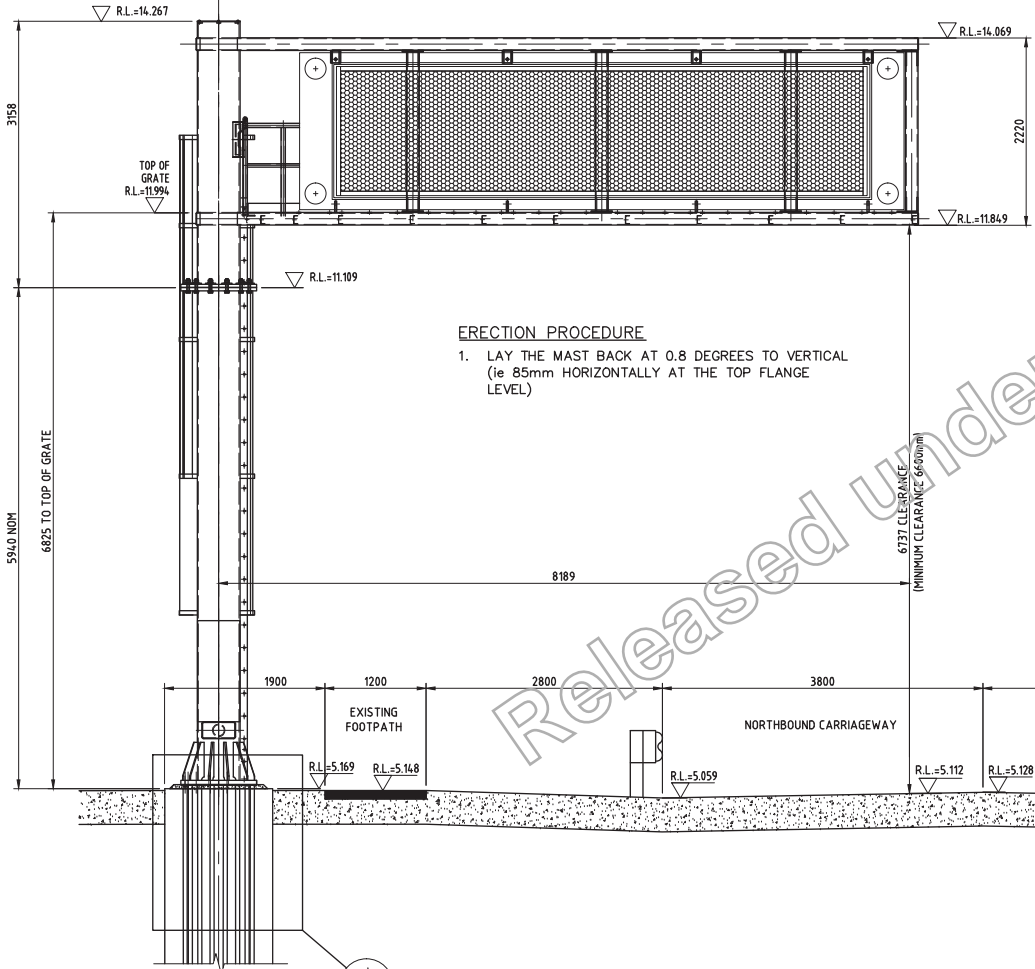
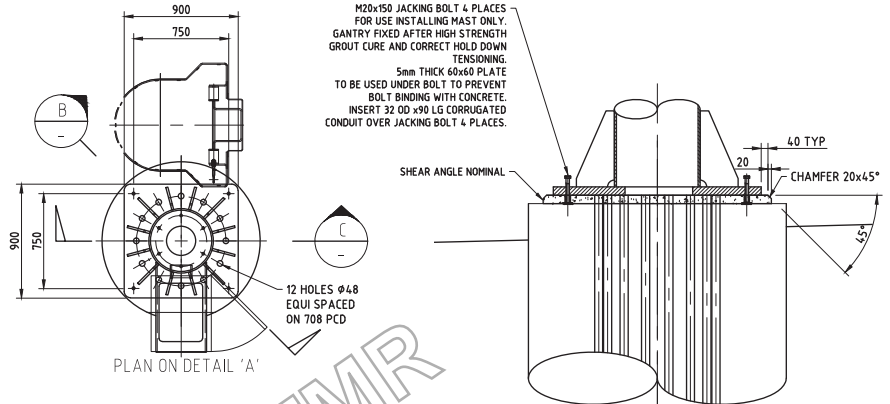
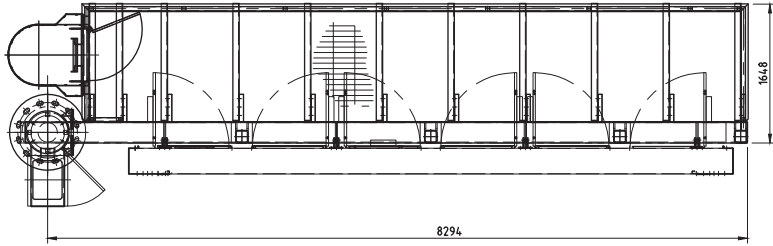
ELEMENT	SURFACE TREATMENT
ALL STEELWORK	HOT DIP GALVANISED.
- FULL LENGTH MEMBERS WITHOUT ANY JOINS SHALL ONLY BE USED.

FOUNDATION NOTES

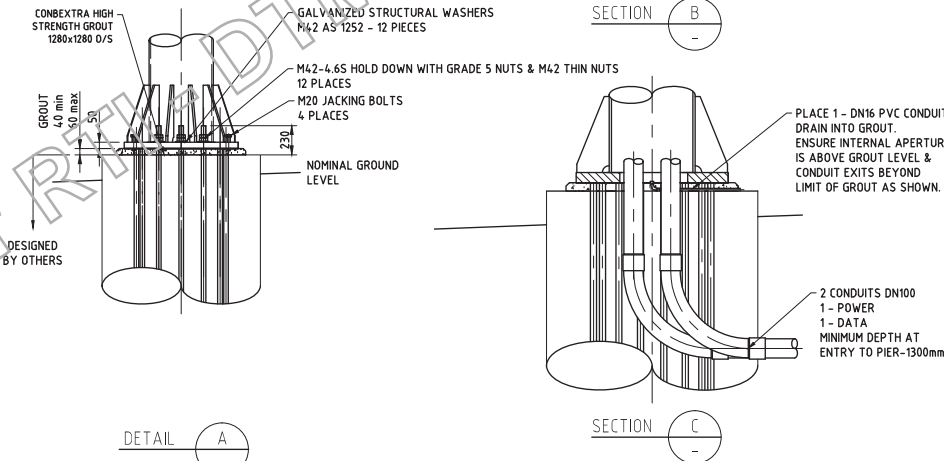
- FOUNDATION INVESTIGATION TO INFORM FOOTING DESIGN - SEE GEOTECHNICAL REPORT.
- FOOTINGS DETAILED BY OTHERS.

ISSUED FOR CONSTRUCTION

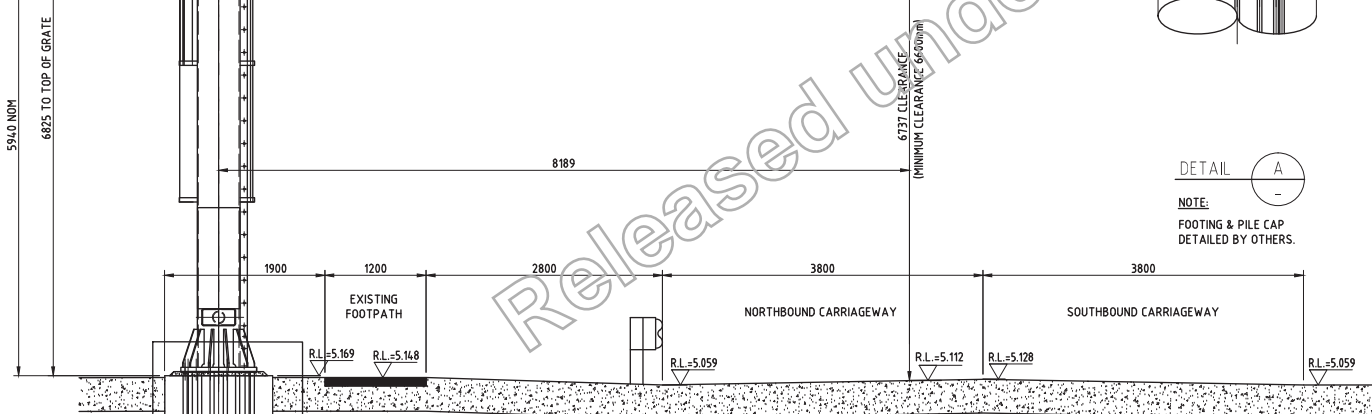
<p>National Professional Engineers Register</p> <p>Mr Geoff Hamilton - GH Consultant Engineers BE, Meng, MIE, NPER-3 Civil & Structural Registered Professional Engineer Old RPEQ 2143</p> <p>Signature: _____ Date: 05/06/2014 Certification for Structural Design Only</p> <p>Dated: 12/06/2014</p>	<p>NOTE: THIS DOCUMENT CONTAINS INTELLECTUAL PROPERTY THAT IS OWNED BY J1 LED INTELLECTUAL TRANSPORT SYSTEMS. ANY USE OR DISTRIBUTION OF THIS DOCUMENT OR INFORMATION CONTAINED WITHIN IS PROHIBITED WITHOUT THE EXPRESS PERMISSION OF J1 LED INTELLECTUAL TRANSPORT SYSTEMS.</p> 	<p>J1-LED ITS PTY LTD 2/57-59 STEEL STREET CAPRALABA QLD 4157 PH. 1300 88 44 73 ABN 13 141 424 191</p>	<table border="1"> <tr> <th>DATE</th> <th>NAME</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DATE	NAME							<p>SCALE NTS</p> <p>GAL VMS B LEMKE ROAD</p> <p>VMS TYPE B GENERAL NOTES</p> <p>JT-C-1044-ME-022</p> <p>REV 09</p>
		DATE	NAME									
<p>APPR. CHECK</p> <p>DRAWN 27/06/13</p> <p>AJV</p>	<p>THIRD ANGLE</p> 	<p>FILENAME</p> <p>SHEETS</p>										



ERECTOR PROCEDURE
 1. LAY THE MAST BACK AT 0.8 DEGREES TO VERTICAL (ie 85mm HORIZONTALLY AT THE TOP FLANGE LEVEL)



DETAIL A
 NOTE:
 FOOTING & PILE CAP
 DETAILED BY OTHERS.



NOTES:
 1. GENERAL DESIGN ONLY. FOOTING DETAILED BY OTHERS.

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HEIGHT REF TABLE	
UNDERSIDE OF SIGN	11.849
ROAD R.L.	5.112
CLEARANCE	6.737

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 Mr Geoff Hamilton - GH Consultant Engineers
 BE, MENG, MIE, NPER-3 Civil & Structural
 Registered Professional Engineer Qld RPEQ 2143
 Signature: _____ Date: 05/06/2014
 Certification for Structural Design Only
 Dated: 12/06/2014

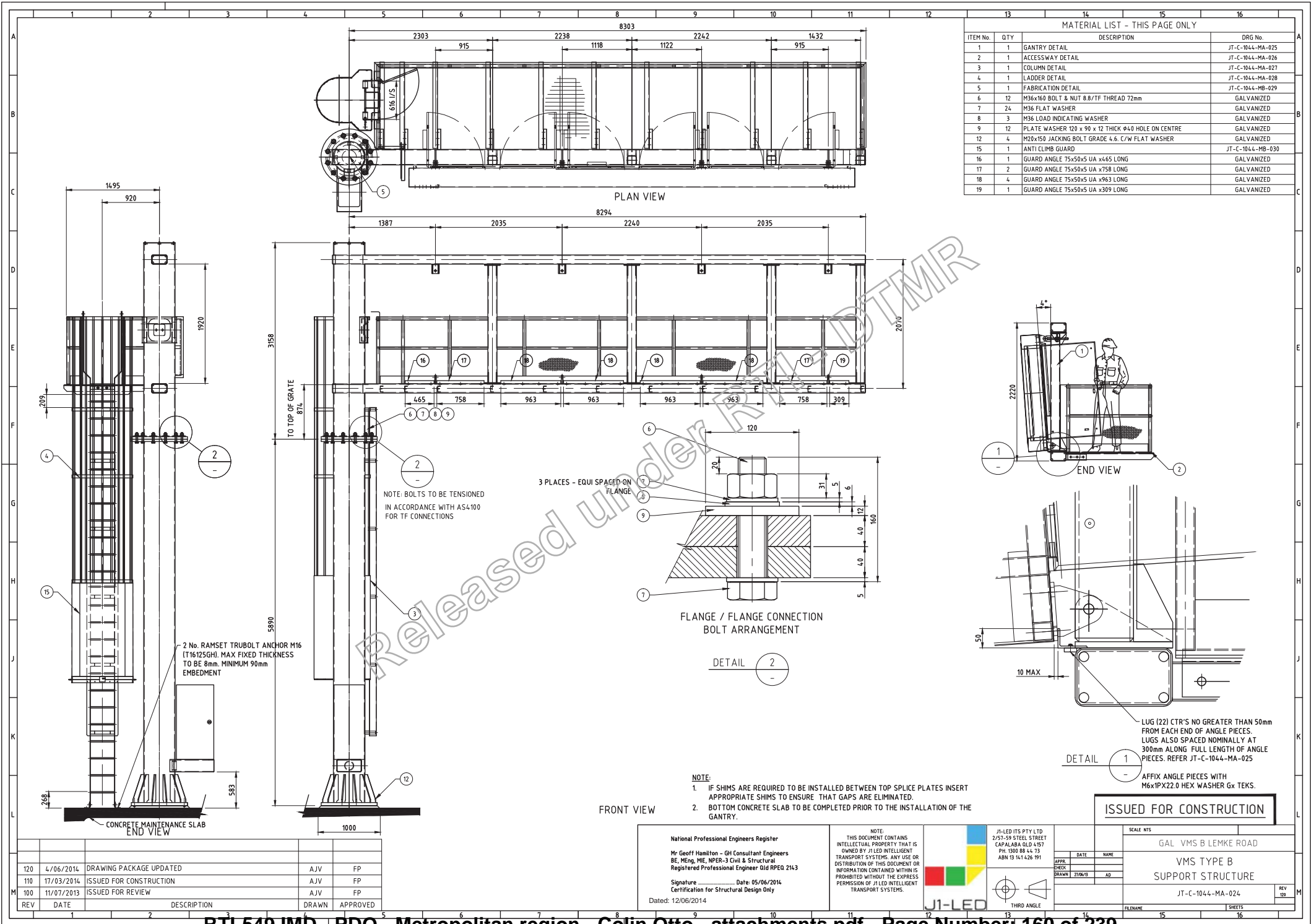
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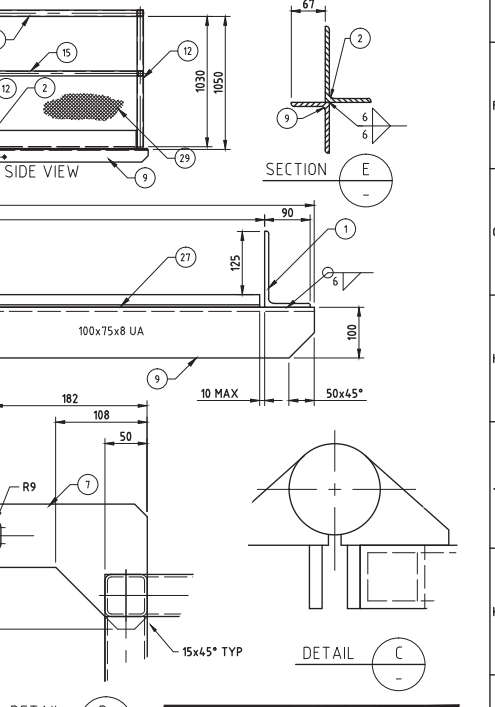
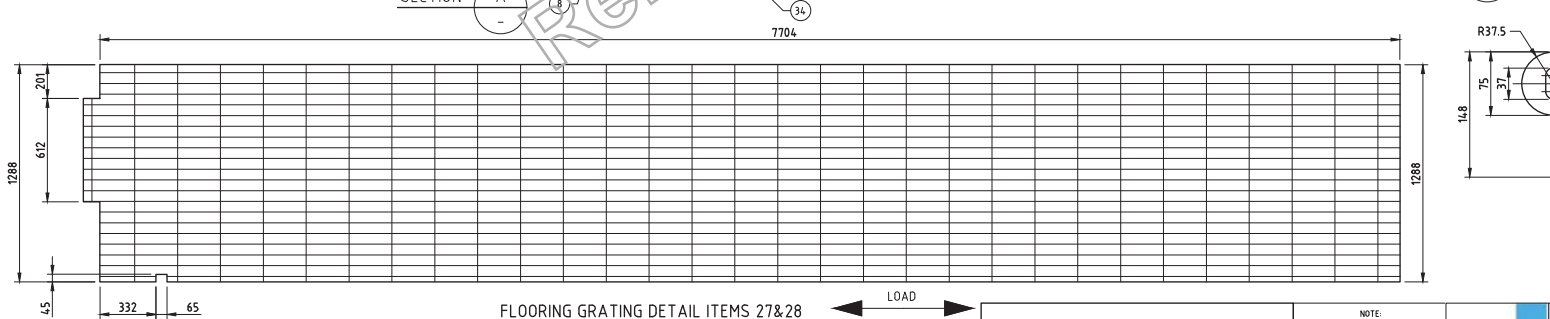
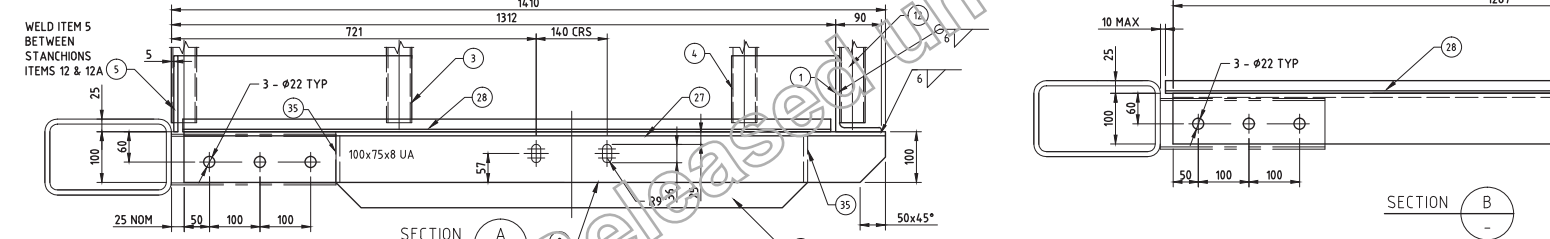
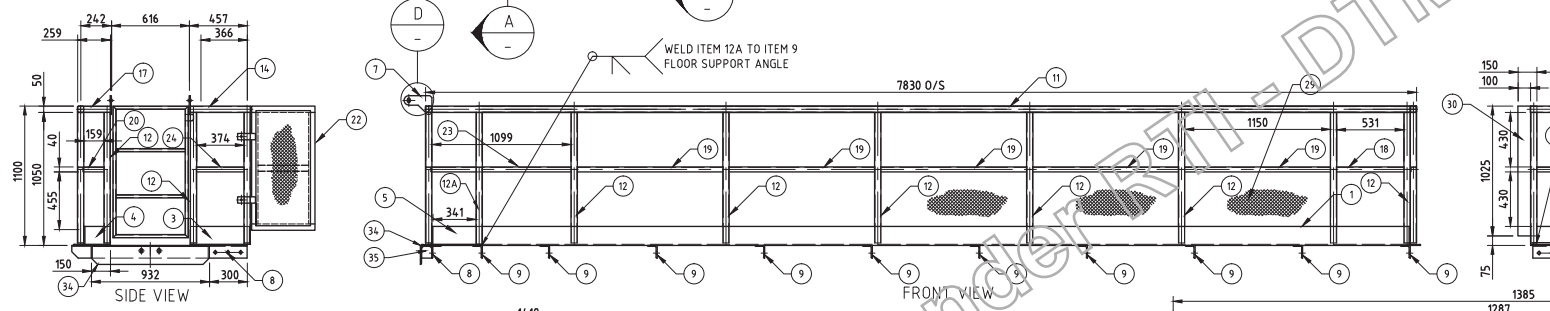
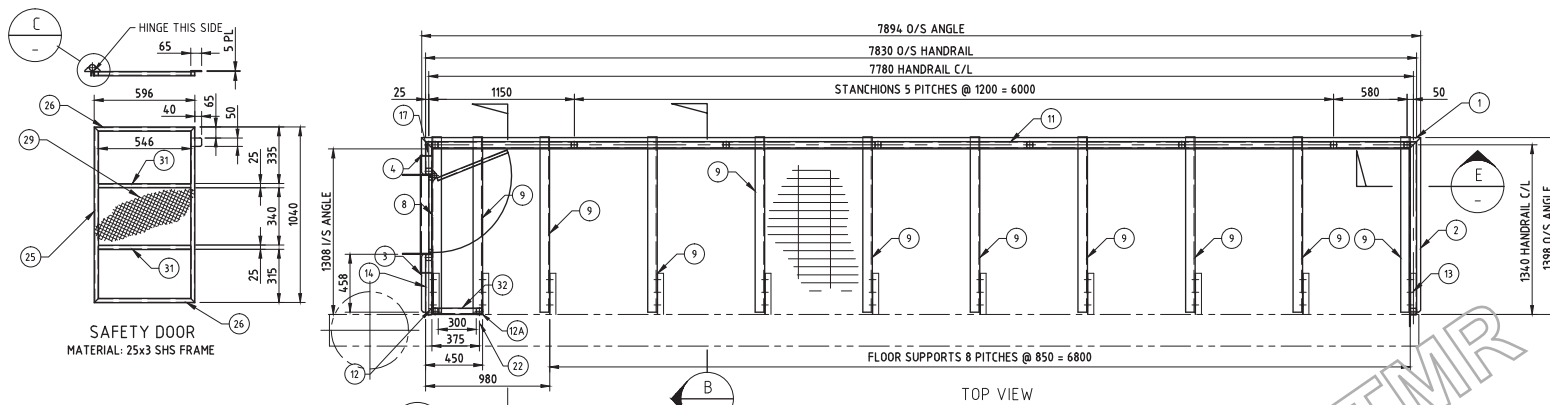
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 2/57-59 STEEL STREET
 CAPRALABA QLD 4157
 PH. 1900 88 44 73
 ABN 13 141 426 191

APPR.	DATE	NAME
CHECK		
DRAWN	W/B/J	AJV

SCALE NTS	
GAL VMS B LEMKE ROAD	
VMS TYPE B	
SITE LAYOUT	
JT-C-1044-MC-023	REV 02



MATERIAL LIST - THIS PAGE ONLY				
ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	1	UA 150x90x8 x 7894 LG	AS36791-300	106.97
2	1	UA 150x90x8 x 1398 LG	AS36791-300	18.80
3	1	UA 150x90x8 x 458 LG	AS36791-300	5.95
4	1	UA 150x90x8 x 208 LG	AS36791-300	2.15
5	1	KICK PLATE 150x8 x 300 LG	AS3678-350	4.46
7	2	BRACKET PLATE 220x148 x 8 THICK	AS3678-350	6.37
8	1	UA 100x75 x 8 x 1395 LG FLOOR SUPPORT	AS36791-300	115.2
9	10	UA 100x75 x 8 x 1085 LG FLOOR SUPPORT	AS36791-300	103.71
11	1	SHS 50x3 x 7830 LG	AS1163-C350L	3156
12	12	SHS 50x3 x 1030 LG H/RAIL SUPPORT	AS1163-C350L	4.910
12A	1	SHS 50x3 x 1050 LG H/RAIL SUPPORT	AS1163-C350L	4.46
13	1	SHS 50x3 x 1365 LG	AS1163-C350L	5.81
14	1	SHS 50x3 x 474 LG	AS1163-C350L	2.01
15	1	EA 40x3 x 1315 LG	AS36791-300	2.41
17	1	SHS 50x3 x 259	AS1163-C350L	1.10
18	1	EA 40x3 x 530 LG	AS36791-300	2.12
19	5	EA 40x3 x 1150 LG	AS36791-300	9.15
20	1	EA 40x3 x 159 LG	AS36791-300	0.18
22	1	SAFETY GUARD	JT-C-104.4-MB-029	12.00
23	1	EA 40x3 x 1100 LG	AS36791-300	1.60
24	1	EA 40x3 x 374 LG	AS36791-300	0.57
25	2	SHS 25x3 x 1040 LG	AS1163-C350L	4.35
26	2	SHS 25x3 x 596 LG	AS1163-C350L	2.65
27	1	FLOOR GRATE WELDLOK A40-205	GALVANIZED	175.87
28	1	FLOOR MESH MASTERMESH LD1616	GALVANIZED	93.80
29	1	H/R MASTERMESH LD1616	GALVANIZED	54.20
30	1	CLOSING PLATE 140x5 x 1025 LG	AS3678-250	5.63
31	2	SHS 25x3 x 546 LG	AS1163-C350L	2.46
32	1	SHS 50x3 x 450 LG	AS1163-C350L	1.10
33	1	EA 40x3 x 350 LG	AS36791-300	2.12
34	1	UA 150x90x8 x 932 LG	AS36791-300	8.23
35	2	GUSSET PLATE 92x82 x 8 THK	AS3678-350	1.52
TOTAL MASS				733.93



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 CAPRALABA QLD 4157
 PH: 1300 88 44 73
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SCALE: NTS

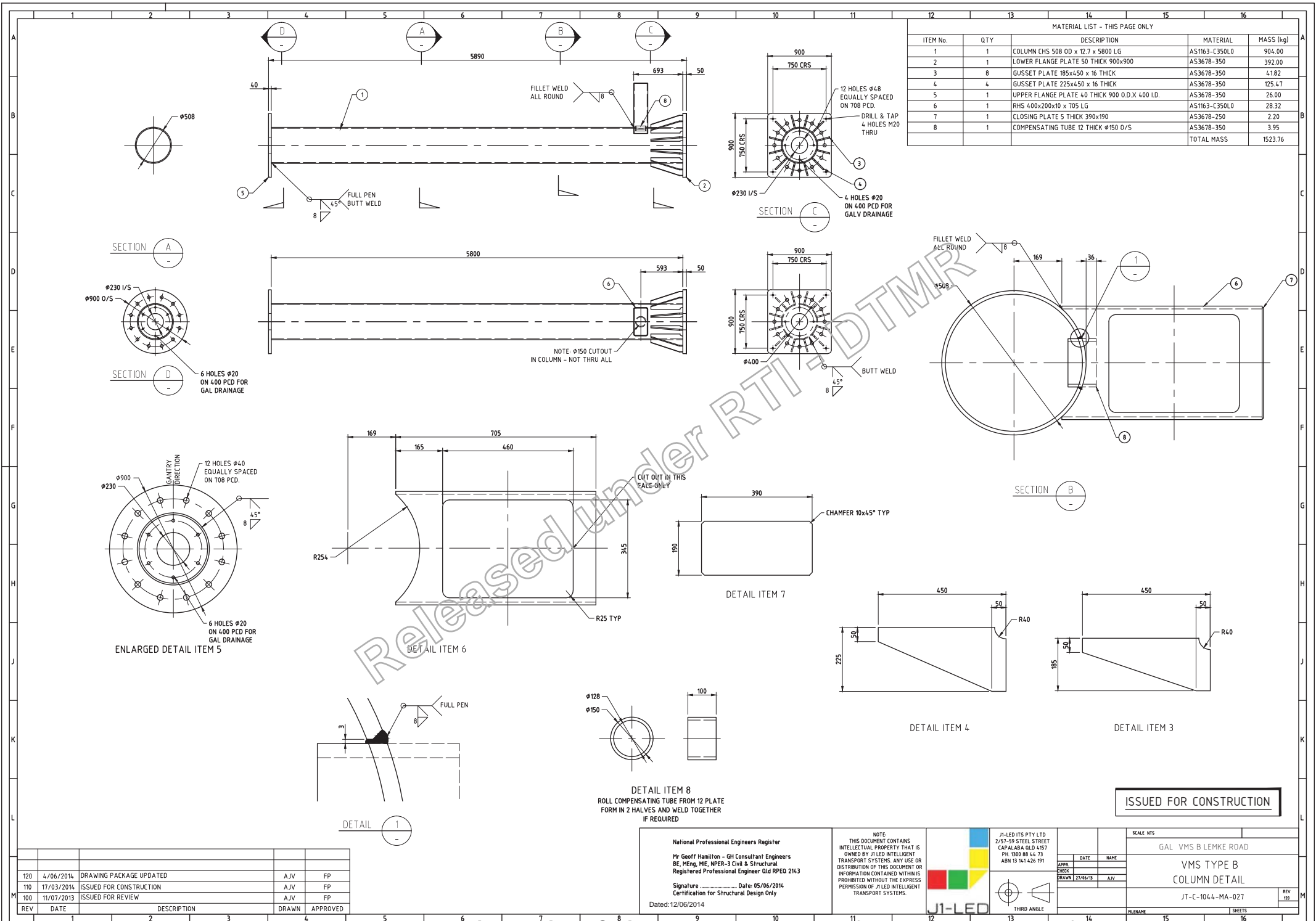
GAL VMS B LEMKE ROAD

VMS TYPE B
 ACCESSWAY DETAIL

JT-C-104.4-MA-026

APPR. DATE NAME
 CHECK DATE NAME
 DRAWN 27/06/14 AJV

FILENAME SHEETS



MATERIAL LIST - THIS PAGE ONLY				
ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	1	COLUMN CHS 508 OD x 12.7 x 5800 LG	AS1163-C350L0	904.00
2	1	LOWER FLANGE PLATE 50 THICK 900x900	AS3678-350	392.00
3	8	GUSSET PLATE 185x450 x 16 THICK	AS3678-350	4182
4	4	GUSSET PLATE 225x450 x 16 THICK	AS3678-350	125.47
5	1	UPPER FLANGE PLATE 40 THICK 900 O.D.X 400 I.D.	AS3678-350	26.00
6	1	RHS 400x200x10 x 705 LG	AS1163-C350L0	28.32
7	1	CLOSING PLATE 5 THICK 390x190	AS3678-250	2.20
8	1	COMPENSATING TUBE 12 THICK Ø150 O/S	AS3678-350	3.95
			TOTAL MASS	1523.76

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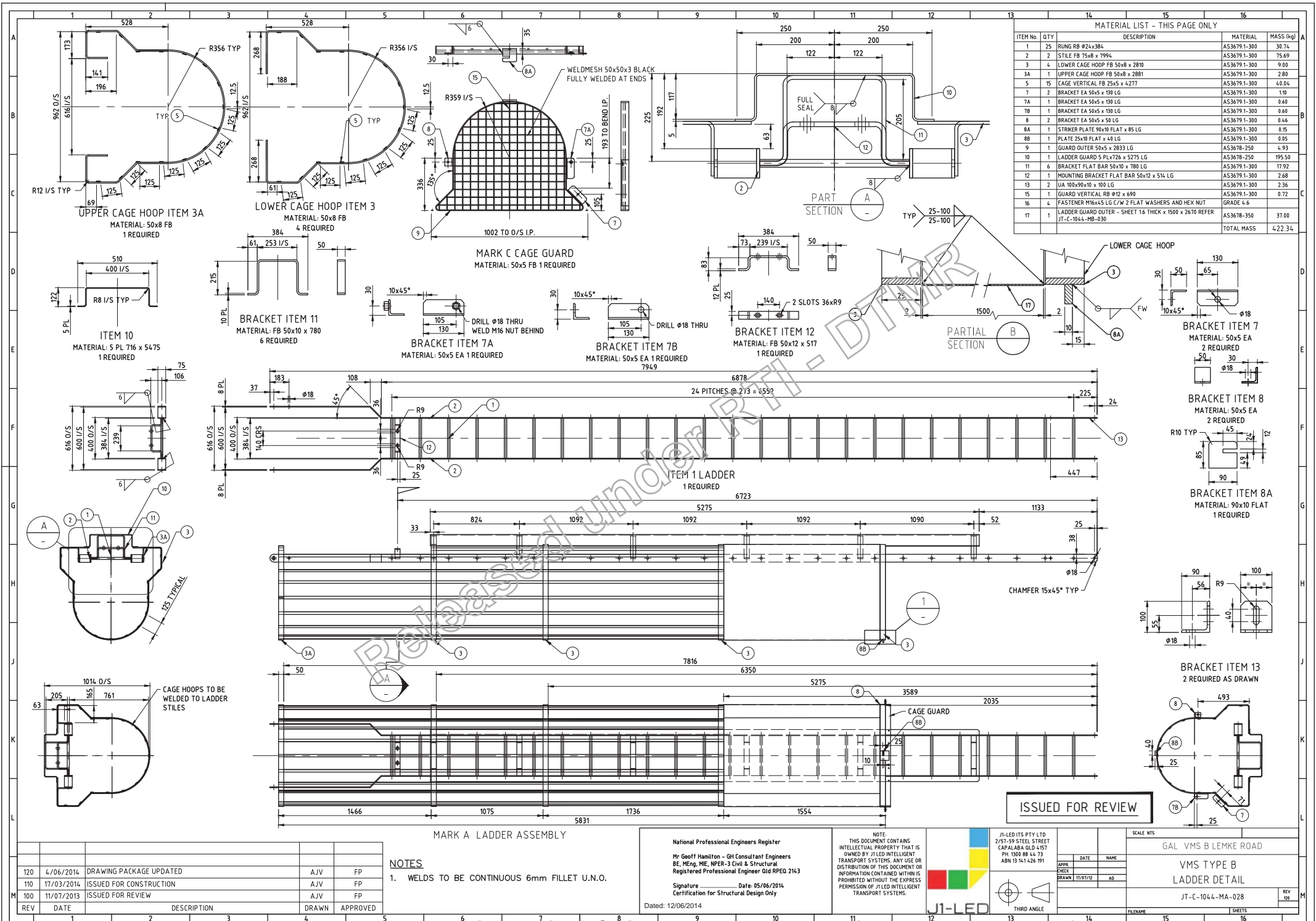
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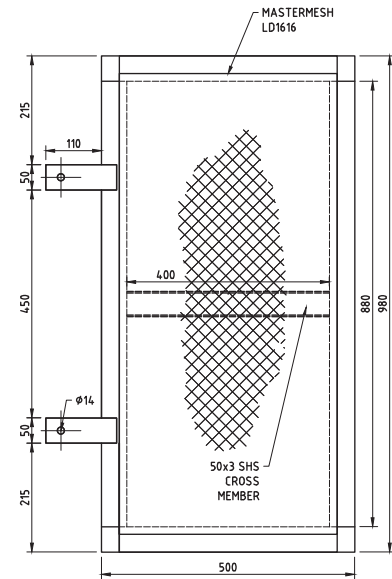
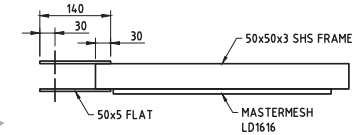
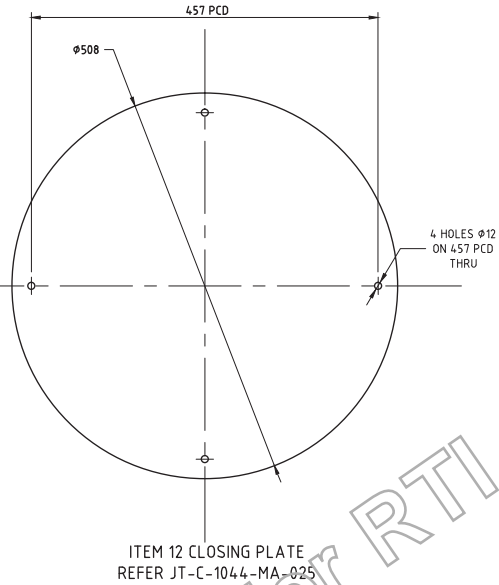
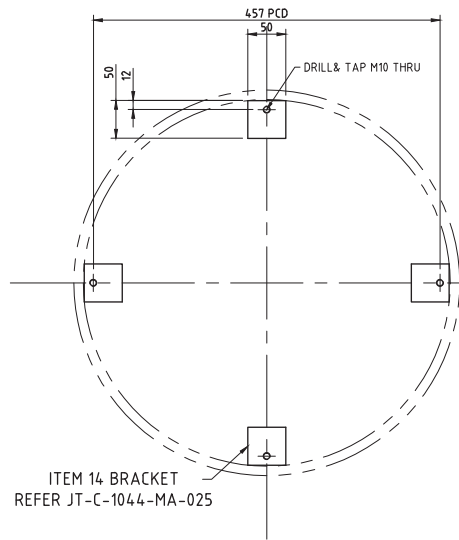
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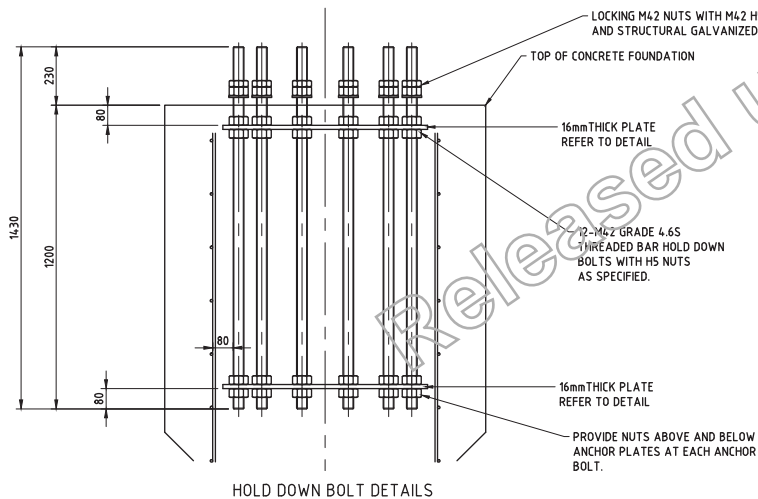
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GAL VMS B LEMKE ROAD	
VMS TYPE B COLUMN DETAIL	
JT-C-1044-MA-027	
FILENAME	SHEETS



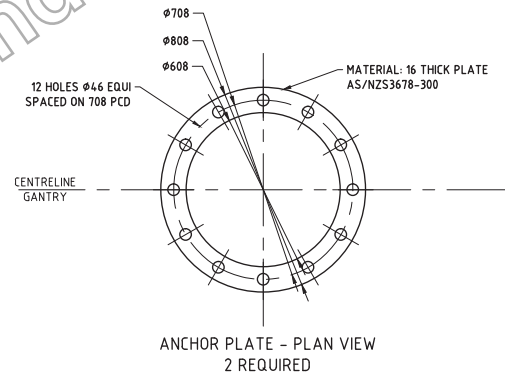
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ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
12	1	CLOSING PLATE 508 O.D. x 8 THICK	AS 3678-250	12.87
14	4	BRACKET 50x50 x 8 THICK	AS 3678-350	2.00
22	1	SAFETY GUARD	AS 3678-350	17
TOTAL MASS				14.87



ITEM 22 - SAFETY GUARD
1 REQUIRED



HOLD DOWN BOLT DETAILS



BASE PLATE LOADS.			
LIMIT STATE	(WL + DL)	(LL + DL)	
-MUX	(KNm) = 325	-	
-MUZ	(KNm) = 116	272	
-TORSION	(KNm) = 198	-	
-AXIAL	(KN) = 42	73.6	
-SHEAR	(KN) = 47	-	

HOLD DOWN BOLTS NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH MRTS78.
2. UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS/NZS3679.1 GRADE 250 OR GREATER.
3. NUTS AND BOLTS TO BE HOT DIPPED GALVANIZED TO AS4680:2006.

National Professional Engineers Register
Mr Geoff Hamilton - GH Consultant Engineers
BE, MENG, MIE, NPER-3 Civil & Structural
Registered Professional Engineer Qld RPEQ 2143

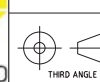
Signature: _____ Date: 05/06/2014
Certification for Structural Design Only

Dated: 12/06/2014

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J1-LED ITS PTY LTD
2/57-59 STEEL STREET
CAPRALABA QLD 4157
PH. 1300 88 44 73
ABN 13 141 424 191



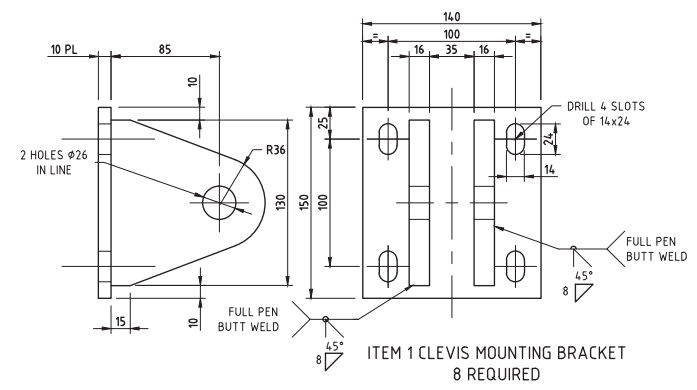
THIRD ANGLE

ISSUED FOR CONSTRUCTION

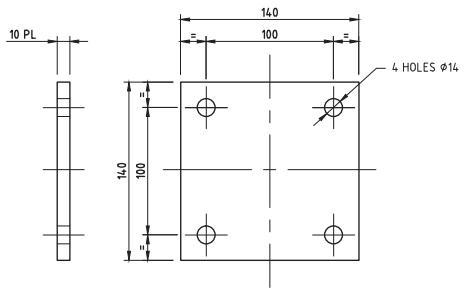
SCALE NTS		
GAL VMS B LEMKE ROAD		
VMS TYPE B FABRICATION DETAIL		
JT-C-1044-MB-029		
REV	DATE	BY
129		

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

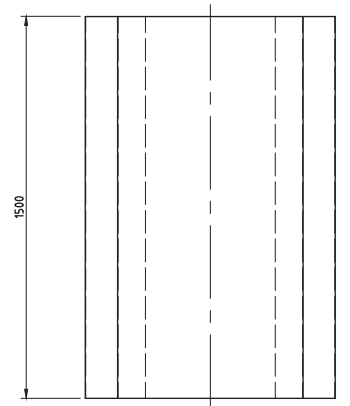
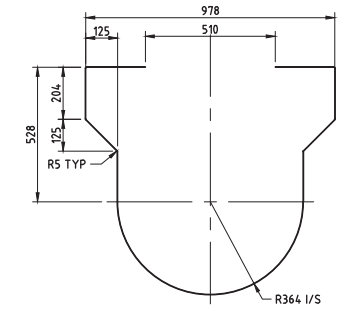
MATERIAL LIST - THIS PAGE ONLY				
ITEM No.	QTY	DESCRIPTION	MATERIAL	MASS (kg)
1	8	CLEVIS MOUNTING BRACKET	AS3678-350	20.00
2	8	CLEVIS BRACKET BACKING PLATE	AS3678-350	5.00
3	4	ADJUSTING ROD		12.00
15	1	SHEET 1.6 THICK x 2670x1500	AS3678-350	57.75
TOTAL MASS				37.00



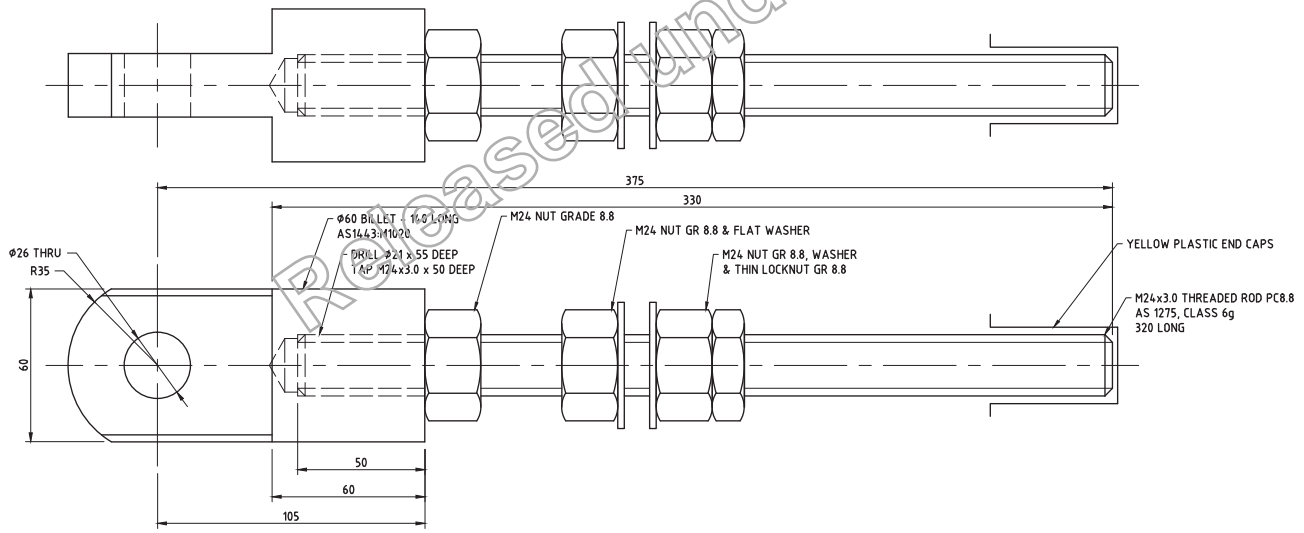
ITEM 1 CLEVIS MOUNTING BRACKET
8 REQUIRED



ITEM 2 CLEVIS BRACKET BACKING PLATE
8 REQUIRED



ITEM 15 ANTI CLIMBING GUARD
1 REQUIRED
NOTE: ALL DIMENSIONS TO INTERNAL INTERSECTION POINTS.
ALL INTERNAL RADII = R5



ITEM 3 ADJUSTING ROD
4 REQUIRED

REV	DATE	DESCRIPTION	DRAWN	APPROVED
120	4/06/2014	DRAWING PACKAGE UPDATED	AJV	FP
110	17/03/2014	ISSUED FOR CONSTRUCTION	AJV	FP
100	11/07/2013	ISSUED FOR REVIEW	AJV	FP

National Professional Engineers Register
Mr Geoff Hamilton - GH Consultant Engineers
BE, MEng, MIE, NPER-3 Civil & Structural
Registered Professional Engineer Qld RPEQ 2143
Signature: _____ Date: 05/06/2014
Certification for Structural Design Only
Dated: 12/06/2014

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J1-LED ITS PTY LTD
2/51-59 STEEL STREET
CAPALABA QLD 4157
PH: 1300 88 44 73
ABN 13 141 428 191

APPR.	DATE	NAME
CHECK		
DRAWN	11/07/12	AD

ISSUED FOR CONSTRUCTION

SCALE NTS	
GAL VMS B LEMKE ROAD	
VMS TYPE B EXTRA DETAILS	
JT-C-1044-MB-030	
FILENAME	15
SHEETS	16

Source Location	Source FOBOT Label	Port Range	Destination Location	Destination FOBOT Label	Port Range	REQUIREMENTS
LOGAN MWY/BEAUDESERT RD INTERCHANGE	FOPP B	5-48	TQ TMC Brandl St	FOC1	53-96	Bidirectional OTDR and LSPM - 2 available cores
ANDERSONS ST RAMPS	FOPP B	13-44	TQ TMC Brandl St	FOC4	61-92	Bidirectional OTDR and LSPM - 2 available cores
TQ TMC Brandl St	1-48 EMP BUS STATION	1-48	CC2	1-48 QML BRANDL ST ITS RACK 2		Bidirectional OTDR and LSPM - 4 available cores
Install 1 x Duplex 10m SCA to SCA Patch Lead between 'FOC1' and '1-48 EMP BUS STATION'.						
Birdirectional OTDR from MLH to CC2 and clean as necessary for through patch loss < 0.5db.						
Install 1 x 10m Duplex SCA to SCA Patch Lead between 'FOC4' and '1-48 EMP BUS STATION'. Birdirectional OTDR and clean as necessary for through patch loss < 0.5db.						
Birdirectional OTDR from Anderson St to CC2 and clean as necessary for through patch loss < 0.5db.						
CC2	25-48 Airport Drive	24-48	Mt Gravatt Caplaba Rd Gateway Interchange MMG502FC	25-36 to EMP	25-36	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 2m Duplex SCA to SCA Patch Lead between '1-48 QML BRANDL ST ITS RACK 2' and '25-48 Airport Drive'.						
Birdirectional OTDR from MLH to MMG502FC and clean as necessary for through patch loss < 0.5db.						
Mt Gravatt Caplaba Rd Gateway Interchange MMG502FC	13-24 TO WECKER ROAD	13-24	Wecker Road U13B-6145	FOBOT 5	37-48	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between '25-36 to EMP' and '13-24 TO WECKER ROAD'.						
Birdirectional OTDR from MLH to Wecker Road and clean as necessary for through patch loss < 0.5db.						
Wecker Road U13B-6145	FOBOT 6	37-48	POB	FOBOT 0	13-24	Bidirectional OTDR and LSPM - 2 available cores
Install Duplex 1 x 1m SCA to SCA Patch Lead between 'FOBOT 5' and 'FOBOT 6'.						
Birdirectional OTDR from MLH to MPB429NC and clean as necessary for through patch loss < 0.5db.						
Port of Brisbane MPB429NC	FOBOT 0	1-12	Gateway Tech Shelter	37-48 PORT PED TMR	37-48	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between 'FOBOT 0 1-12' and 'FOBOT 0 13-24'.						
Birdirectional OTDR from MLH to GATEWAY TECH SHELTER and clean as necessary for through patch loss < 0.5db.						
Gateway Tech Shelter	25-48 Airport Drive TMR	25-48	MAL196	FOPP2	13-24	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between '37-48 PORT PED TMR' and '25-48 Airport Drive TMR'.						
Birdirectional OTDR from MLH to MAL196 and clean as necessary for through patch loss < 0.5db.						
MAL196	FOPP1	49-60	Butterfield St	FOTRBH-FOJ401-Core 1 to 96	37-48	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 1m Duplex SCA to SCA Patch Lead between 'FOPP2' and 'FOPP1'.						
Birdirectional OTDR from MLH to Butterfield St and clean as necessary for through patch loss < 0.5db.						
Butterfield St	FOTCNT-FOJ307-Core 1 to 96	61-72	Countess St	TO BUTTERFIELD ST	61-72	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 5m Duplex SCA to SCA Patch Lead between 'FOTRBH-FOJ401 61-72' and 'FOTCNT-FOJ307 61-72'.						
Birdirectional OTDR from MLH to Countess St and clean as necessary for through patch loss < 0.5db.						
Countess St	96F TO KING GEORGE SQUARE (1-72)	1-12	KGS COM001	96F TO INB NODE ROOM	1-12	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 5m Duplex SCA to SCA Patch Lead between 'TO BUTTERFIELD ST 1-12' 96F TO KING GEORGE SQUARE (1-72)'.						
Birdirectional OTDR from MLH to KGS and clean as necessary for through patch loss < 0.5db.						
King George Square COM001	IT-FPP-003	33-34	BMTMC Level 2	CITBSQ-GSP-02-Ba FOBOT 2	33-34	Bidirectional OTDR and LSPM - 2 available cores
Install 1 x 5m Duplex SCA to SCA Patch Lead between 'TO BUTTERFIELD ST 1-12' 96F TO KING GEORGE SQUARE (1-72)'.						
Birdirectional OTDR from MLH to BMTMC and clean as necessary for through patch loss < 0.5db.						
Provide test results for overall link. OTDR and LSPM 1310 and 1550 wavelengths.						

OTDR Report (1550 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:35:09 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

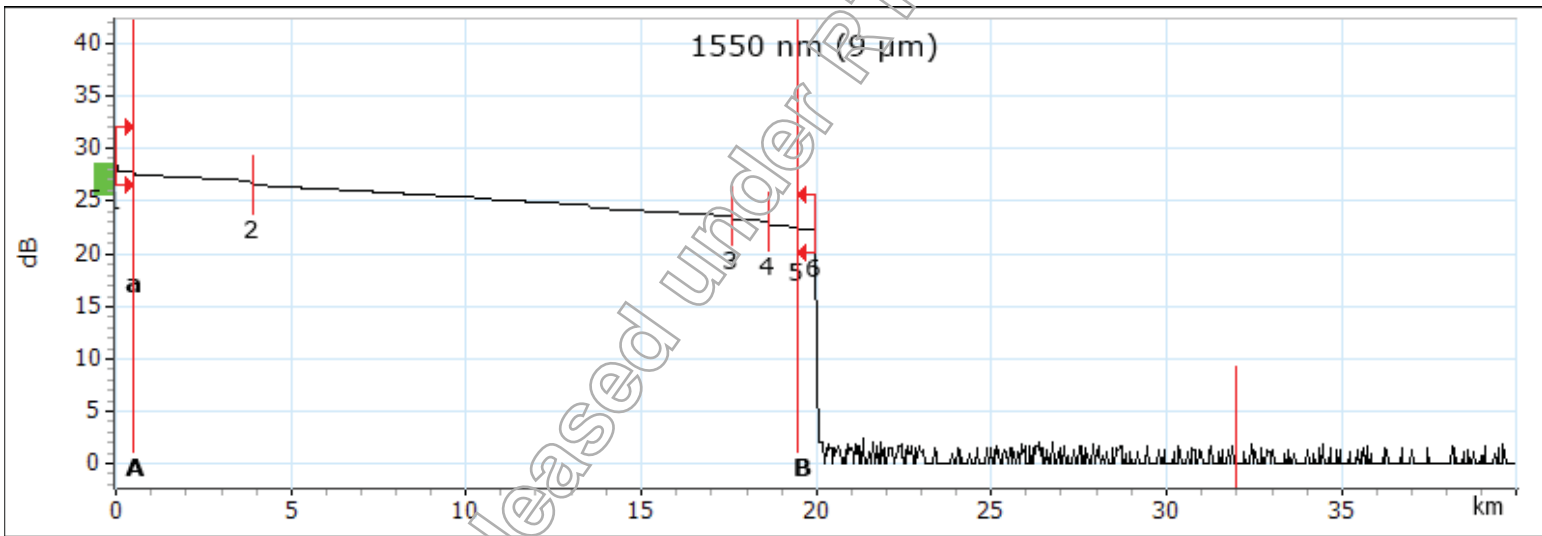
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9847 km Average loss: 0.274 dB/km Injection level: 27.9 dB
 Span loss: 5.479 dB Average splice loss: 0.331 dB
 Span ORL: 33.21 dB Maximum splice loss: 0.386 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.245 dB/km	A-B average loss:	0.277 dB/km
a	0.4696	27.781	A-B LSA loss:	4.657 dB	4-point Event Loss:	15.288 dB
A	0.4696	27.781	A-B ORL:	33.33 dB	Maximum reflectance:	-71.9 dB
B	19.4475	22.532				
b	32.0003	0.000				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-56.0		0.000
Section		3.9137	0.857		0.219	0.857
Non-Reflective	2	3.9137	0.305			1.162
Section		13.6783	3.064		0.224	4.226
Non-Reflective	3	17.5921	0.301			4.527
Section		1.0451	0.191		0.182	4.717
Non-Reflective	4	18.6372	0.386			5.103
Section		0.8090	0.205		0.253	5.308
Reflective	5	19.4462	0.074	-70.9		5.382
Section		0.5385	0.097		0.181	5.479
Reflective	6	19.9847	---	-58.7		5.479

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1310 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:36:10 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

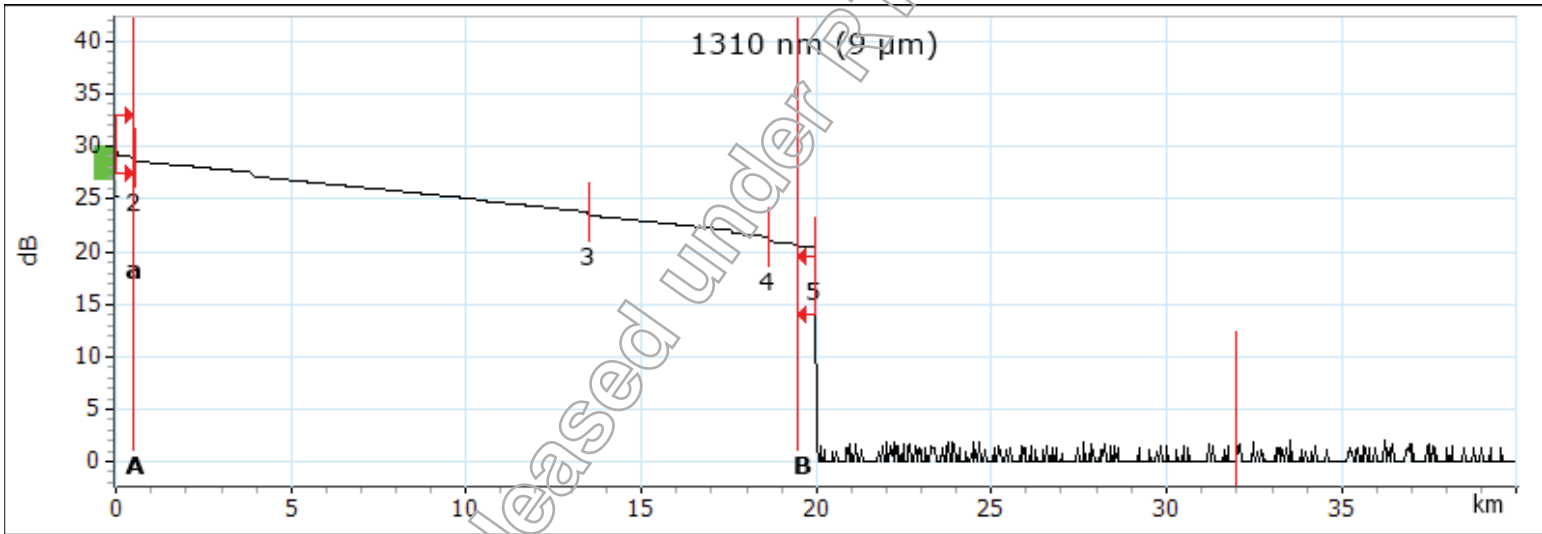
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9907 km Average loss: 0.446 dB/km Injection level: 29.2 dB
 Span loss: 8.921 dB Average splice loss: 0.377 dB
 Span ORL: 32.74 dB Maximum splice loss: 0.432 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.403 dB/km	A-B average loss:	0.441 dB/km
a	0.4696	29.023	A-B LSA loss:	7.645 dB	4-point Event Loss:	17.089 dB
A	0.4696	29.023	A-B ORL:	32.82 dB	Maximum reflectance:	-75.6 dB
B	19.4475	20.650				
b	32.0003	3.134				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-55.3		0.000
Section		0.5451	0.184		0.337	0.184
Non-Reflective	2	0.5451	0.353			0.536
Section		12.9565	4.913		0.379	5.450
Non-Reflective	3	13.5016	0.346			5.796
Section		5.1397	2.018		0.393	7.813
Non-Reflective	4	18.6413	0.432			8.245
Section		1.3494	0.676		0.501	8.921
Non-Reflective	5	19.9907	---			8.921

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released Under RTI - DTMR

OTDR Report (1550 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:39:16 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

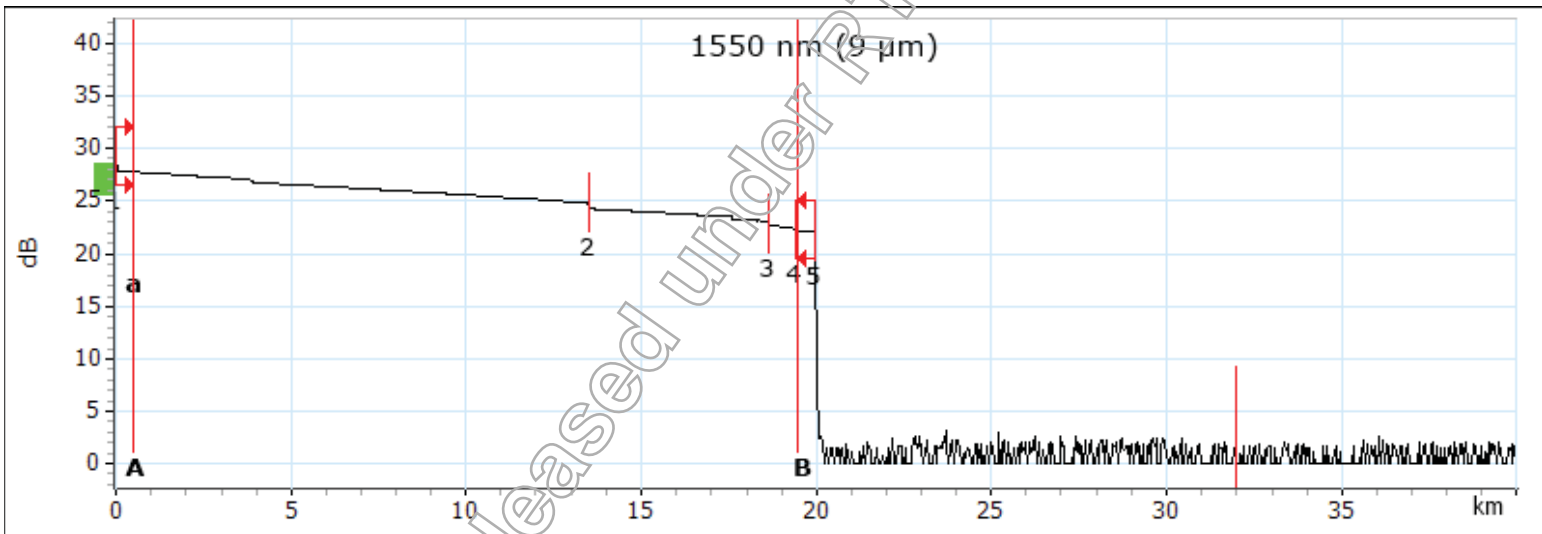
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9822 km Average loss: 0.287 dB/km Injection level: 27.9 dB
 Span loss: 5.741 dB Average splice loss: 0.513 dB
 Span ORL: 32.86 dB Maximum splice loss: 0.566 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.264 dB/km	A-B average loss:	0.281 dB/km
a	0.4696	27.774	A-B LSA loss:	5.005 dB	4-point Event Loss:	15.774 dB
A	0.4696	27.774	A-B ORL:	32.95 dB	Maximum reflectance:	-73.8 dB
B	19.4475	22.445				
b	31.9990	0.000				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-55.9		0.000
Section		13.5099	3.065		0.227	3.065
Non-Reflective	2	13.5099	0.566			3.631
Section		5.1388	1.187		0.231	4.818
Non-Reflective	3	18.6487	0.459			5.277
Section		0.7937	0.230		0.290	5.507
Reflective	4	19.4424	0.132	-71.0		5.639
Section		0.5398	0.101		0.188	5.741
Reflective	5	19.9822	---	-58.5		5.741

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1310 nm (9 μm))

General Information

File name: lvl 2 266 George Nudgee its Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 2:40:18 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

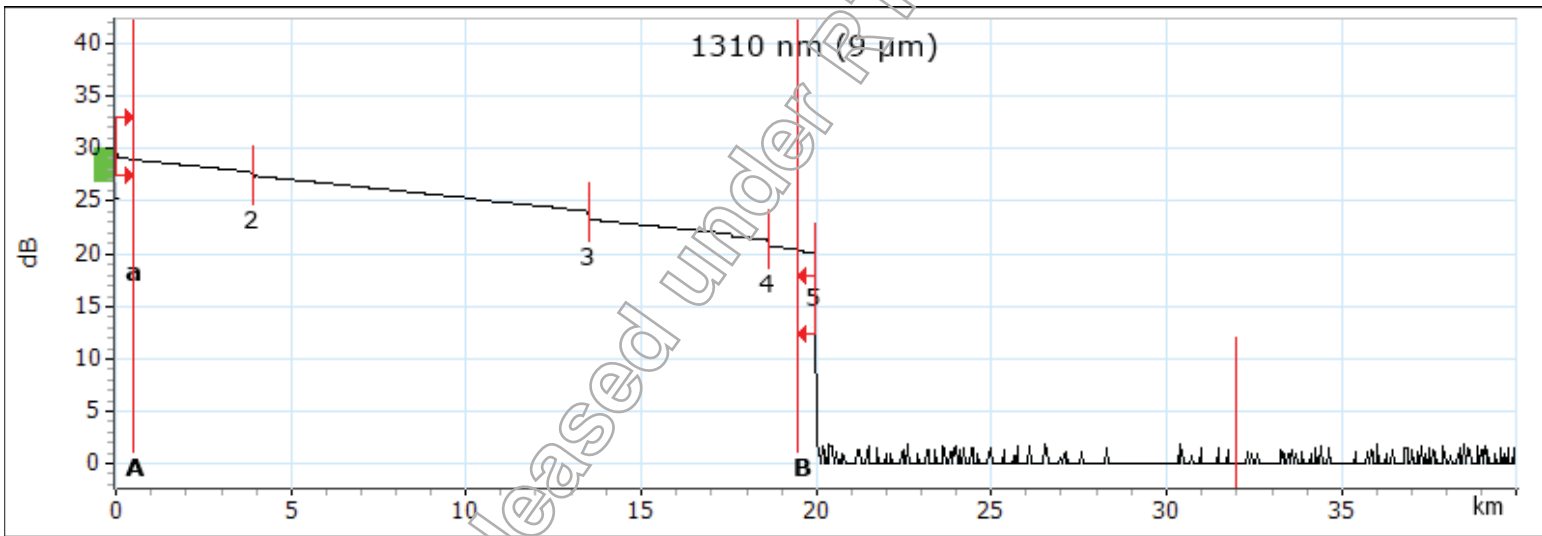
Locations

	Location A	Location B
Location	lvl 2 266 George	Nudgee its
Operator		AODAN
Model		FTB-730C-SM3-EA
Serial number		1099858
Calibration date		5/02/2018 (UTC)

Results

Span length: 19.9868 km Average loss: 0.457 dB/km Injection level: 29.2 dB
 Span loss: 9.140 dB Average splice loss: 0.560 dB
 Span ORL: 32.30 dB Maximum splice loss: 0.780 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.432 dB/km	A-B average loss:	0.452 dB/km
a	0.4696	28.996	A-B LSA loss:	8.196 dB	4-point Event Loss:	17.012 dB
A	0.4696	28.996	A-B ORL:	32.31 dB	Maximum reflectance:	-74.5 dB
B	19.4475	20.412				
b	31.9990	2.868				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-55.3		0.000
Section		3.9141	1.365		0.349	1.365
Non-Reflective	2	3.9141	0.314			1.679
Section		9.5938	3.402		0.355	5.081
Non-Reflective	3	13.5080	0.780			5.861
Section		5.1295	1.937		0.378	7.798
Non-Reflective	4	18.6375	0.585			8.383
Section		1.3494	0.756		0.561	9.140
Non-Reflective	5	19.9868	---			9.140

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	B → A
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	B → A	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released Under RTI - DTMR

OTDR Report (1550 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:27:22 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

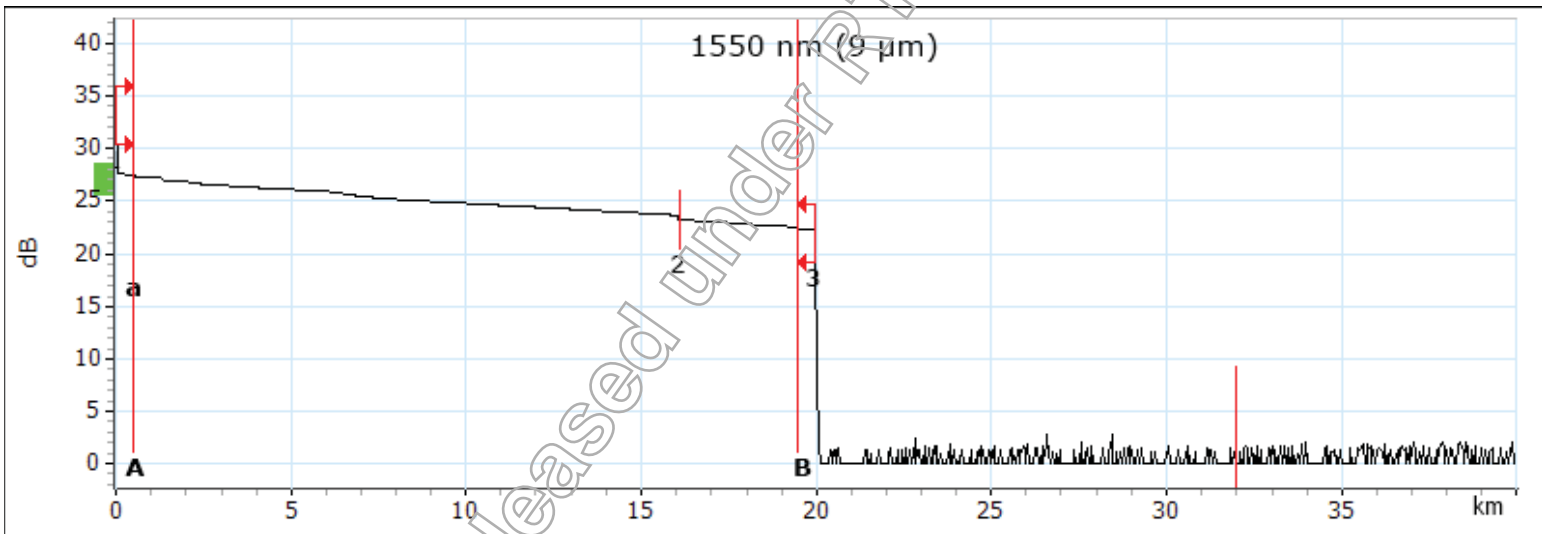
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9860 km Average loss: 0.262 dB/km Injection level: 27.6 dB
 Span loss: 5.228 dB Average splice loss: 0.437 dB
 Span ORL: 33.54 dB Maximum splice loss: 0.437 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.244 dB/km	A-B average loss:	0.262 dB/km
a	0.4696	27.533	A-B LSA loss:	4.629 dB	4-point Event Loss:	15.613 dB
A	0.4696	27.533	A-B ORL:	33.65 dB	Maximum reflectance:	-72.6 dB
B	19.4475	22.557				
b	31.9990	0.000				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.7		0.000
Section		16.0863	3.836		0.238	3.836
Non-Reflective	2	16.0863	0.437			4.273
Section		3.8997	0.955		0.245	5.228
Reflective	3	19.9860	---	-62.2		5.228

Macro Bend

No macro bend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macro Bend Wavelengths	Macro Bend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1310 nm (9 μm))

General Information

File name: nudgee its vl 2 266 George Gun project GUN025.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:28:22 PM Company: IFS
 Cable ID: Fiber ID: GUN025
 Job ID: Gun project
 Comments:

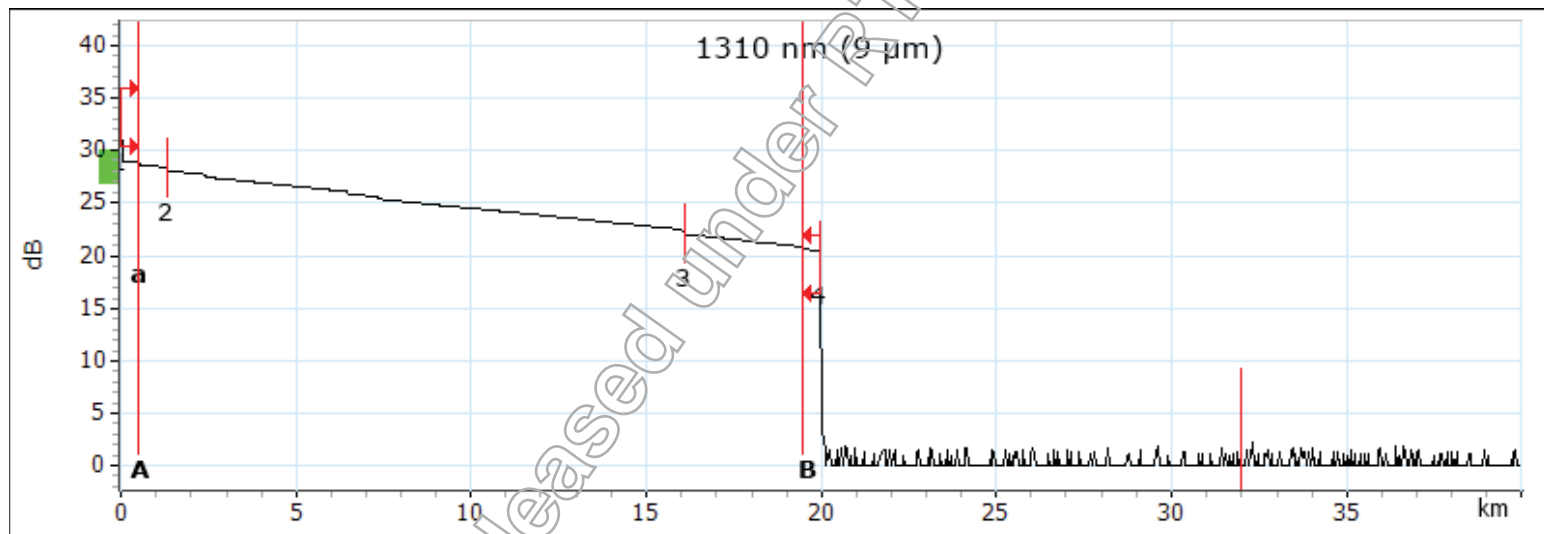
Locations

	Location A	Location B
Location	nudgee its	vl 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9856 km Average loss: 0.433 dB/km Injection level: 29.1 dB
 Span loss: 8.653 dB Average splice loss: 0.374 dB
 Span ORL: 33.09 dB Maximum splice loss: 0.429 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.398 dB/km	A-B average loss:	0.423 dB/km
a	0.4696	28.913	A-B LSA loss:	7.547 dB	4-point Event Loss:	16.634 dB
A	0.4696	28.913	A-B ORL:	33.23 dB	Maximum reflectance:	---
B	19.4475	20.882				
b	31.9990	0.000				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-45.3		0.000
Section		1.3379	0.725		0.542	0.725
Non-Reflective	2	1.3379	0.319			1.044
Section		14.7463	5.626		0.382	6.671
Non-Reflective	3	16.0842	0.429			7.100
Section		3.9014	1.554		0.398	8.653
Reflective	4	19.9856	---	-57.6		8.653

Macroband

No macroband detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macroband Wavelengths	Macroband Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTMR

OTDR Report (1550 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:33:14 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

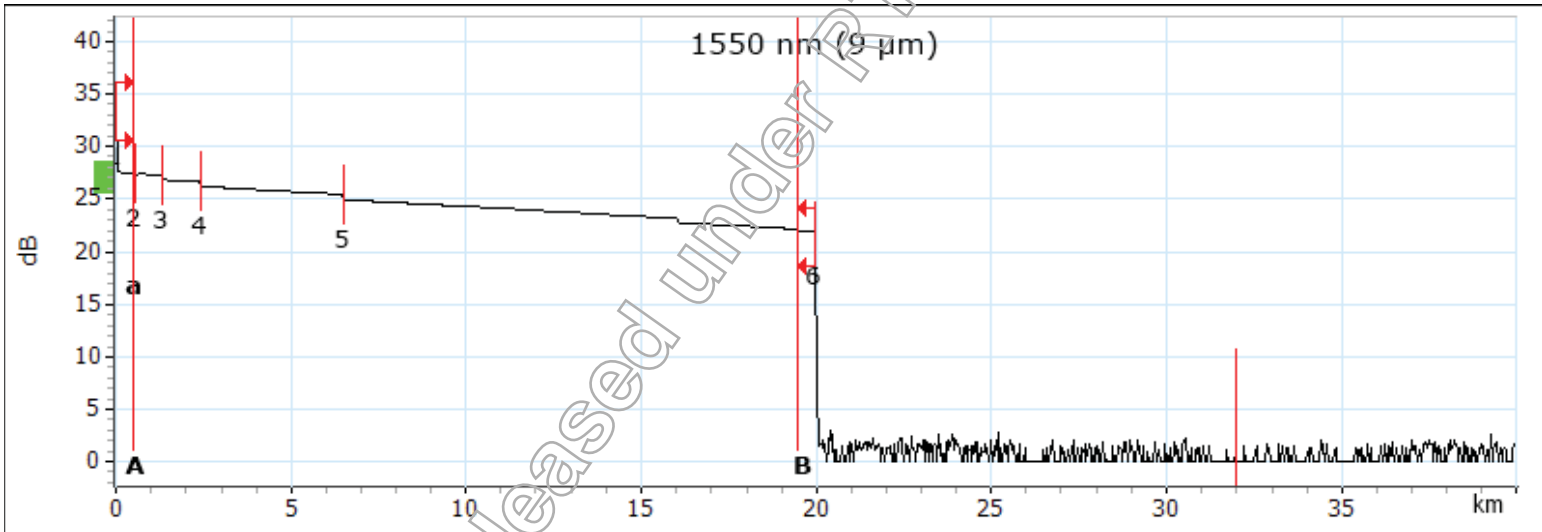
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9822 km Average loss: 0.284 dB/km Injection level: 27.6 dB
 Span loss: 5.680 dB Average splice loss: 0.453 dB
 Span ORL: 34.13 dB Maximum splice loss: 0.487 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.258 dB/km	A-B average loss:	0.283 dB/km
a	0.4696	27.524	A-B LSA loss:	4.896 dB	4-point Event Loss:	15.009 dB
A	0.4696	27.524	A-B ORL:	34.31 dB	Maximum reflectance:	-70.9 dB
B	19.4475	22.161				
b	31.9990	1.494				

OTDR Report (1550 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.1		0.000
Section		0.5436	0.100		0.184	0.100
Reflective	2	0.5436	0.067	-71.2		0.167
Section		0.7873	0.138		0.176	0.305
Non-Reflective	3	1.3310	0.426			0.731
Section		1.0770	0.195		0.181	0.926
Non-Reflective	4	2.4080	0.445			1.371
Section		4.0784	0.767		0.188	2.138
Non-Reflective	5	6.4863	0.487			2.625
Section		13.4958	3.055		0.226	5.680
Reflective	6	19.9822	---	-61.8		5.680

Macro bend

No macro bend detected.

Pass/Fail Thresholds

	1550 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1550 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macro bend Wavelengths	Macro bend Delta Loss (dB)
IOR	1.468325	1310 nm - 1550 nm	0.500
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released under RTI - DTPR

OTDR Report (1310 nm (9 μm))

General Information

File name: nudgee its lvi 2 266 George Gun project GUN026.trc
 Test date: 11/09/2018 Customer:
 Test time: 3:34:15 PM Company: IFS
 Cable ID: Fiber ID: GUN026
 Job ID: Gun project
 Comments:

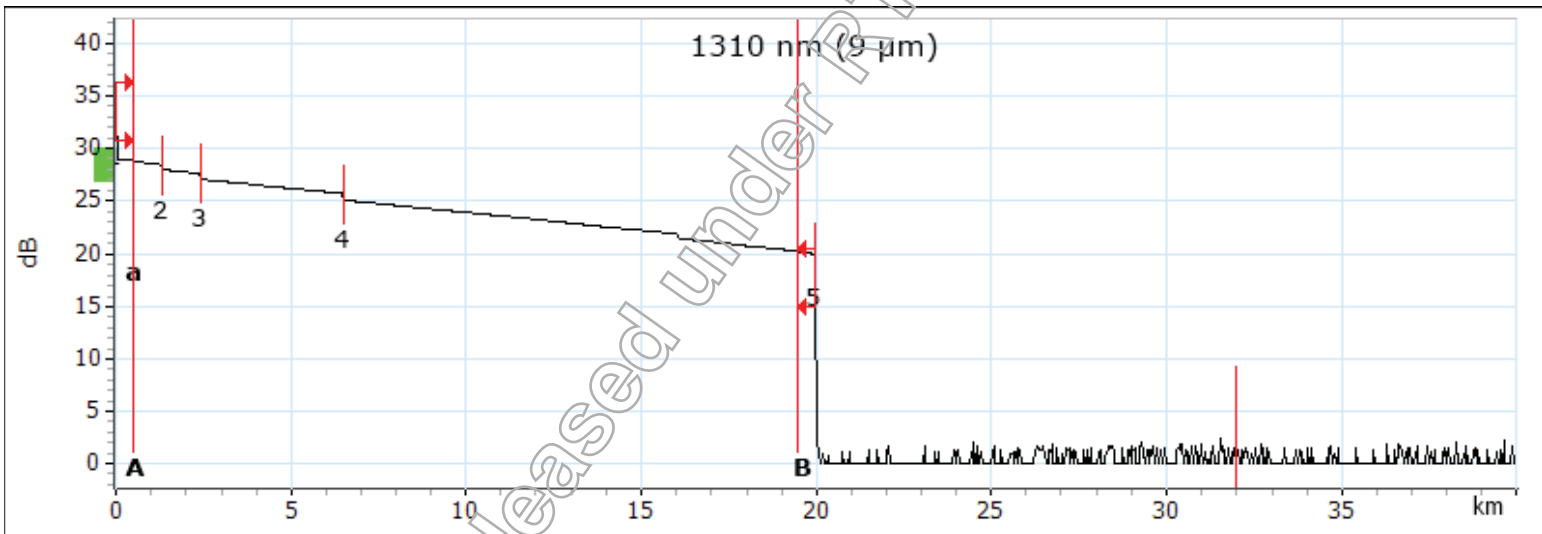
Locations

	Location A	Location B
Location	nudgee its	lvi 2 266 George
Operator		AODAN
Model	FTB-730C-SM3-EA	
Serial number	1099858	
Calibration date	5/02/2018 (UTC)	

Results

Span length: 19.9830 km Average loss: 0.457 dB/km Injection level: 29.0 dB
 Span loss: 9.135 dB Average splice loss: 0.545 dB
 Span ORL: 33.63 dB Maximum splice loss: 0.623 dB

Graph



Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.423 dB/km	A-B average loss:	0.453 dB/km
a	0.4696	28.880	A-B LSA loss:	8.032 dB	4-point Event Loss:	17.963 dB
A	0.4696	28.880	A-B ORL:	33.79 dB	Maximum reflectance:	-74.2 dB
B	19.4475	20.286				
b	31.9990	0.000				

OTDR Report (1310 nm (9 μm))

Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.4		0.000
Section		1.3290	0.610		0.459	0.610
Non-Reflective	2	1.3290	0.453			1.063
Section		1.0787	0.364		0.337	1.427
Non-Reflective	3	2.4077	0.559			1.986
Section		4.0775	1.367		0.335	3.353
Non-Reflective	4	6.4853	0.623			3.976
Section		13.4978	5.159		0.382	9.135
Reflective	5	19.9830	---	-57.4		9.135

Macrobend

No macrobend detected.

Pass/Fail Thresholds

	1310 nm (9 μm)

Test Parameters

	A → B
Wavelength (nm)	1310 nm (9 μm)
Range (km)	40.0000
Pulse (ns)	275
Duration (s)	60

Test Settings

	A → B	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700	1310 nm - 1550 nm	0.500
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.300		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

Released Under E.O. 13526 - DTMR

From: Colin W Otto
Sent: Wednesday, 2 January 2019 5:53 PM
To: Charles Goh
Cc: Albert D Martin; Osman Sivac; Lindsay Harbour; Webbys Pty Ltd; Alan R Graham; Terrence P Webb
Subject: Pacific Motorway Fibre Fault

Charles (Albert),

To further investigate the fibre fault on Pacific Motorway, I need access to the southbound barrier void located at -27.572519, 153.095315. From our OTDR test today, we determined that the fault is 226m beyond the last barrier void accessible behind guardrail. This puts the fault in the exact location of the barrier void at this coordinate using Google Earth, so we are confident of the location. We need approximately 20 minutes to open up and inspect the joint located in this void, before we can determine a resolution.

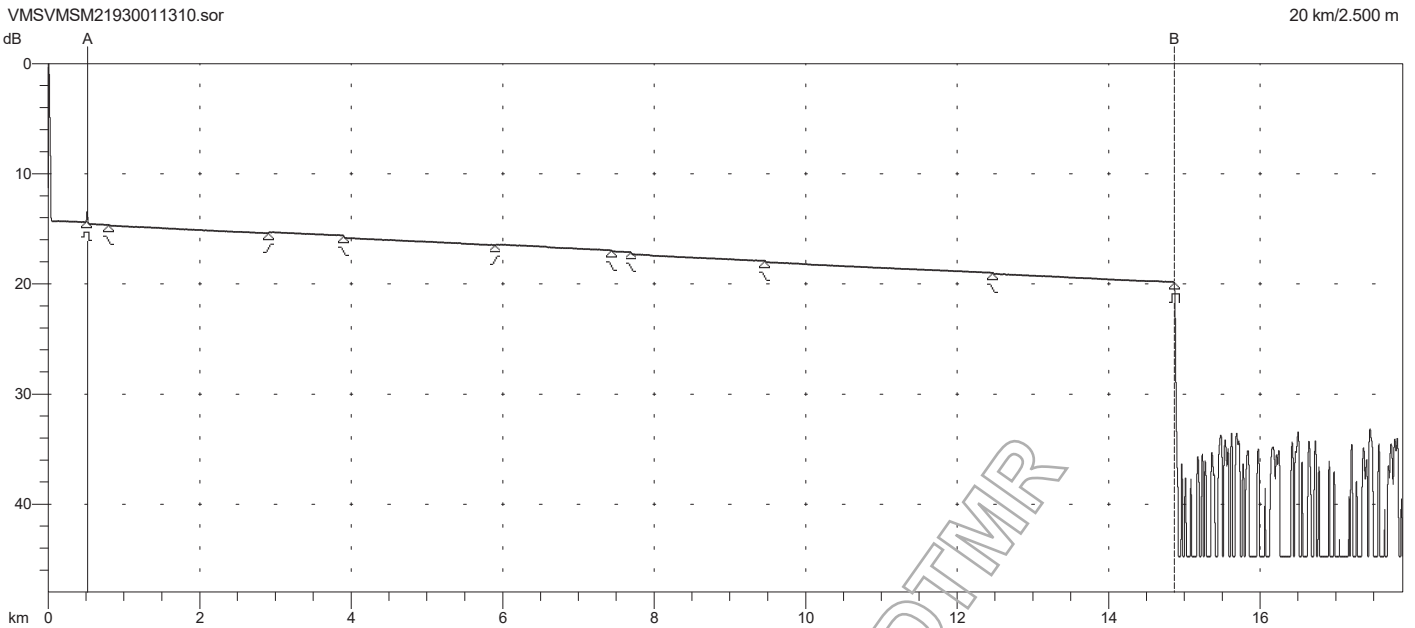
This can be accessed from either the Busway or the Motorway, and either is suitable. Can we please discuss for traffic control (mobile lane closure???) to access this barrier void and liaise with Lindsay and myself asap?

Kind regards,

Col Otto
Senior Engineer (Electrical) RPEQ No. 12762 | Metropolitan Region / Brisbane Office
Program Delivery & Operations | Department of Transport and Main Roads

Floor 10 | 313 Adelaide Street | Brisbane Qld 4000
P: (07) 30665638
M: [Part 4 s.6 P](#)
E: colin.w.otto@tmr.qld.gov.au
W: www.tmr.qld.gov.au

Released under RTI - DTMR



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.241 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

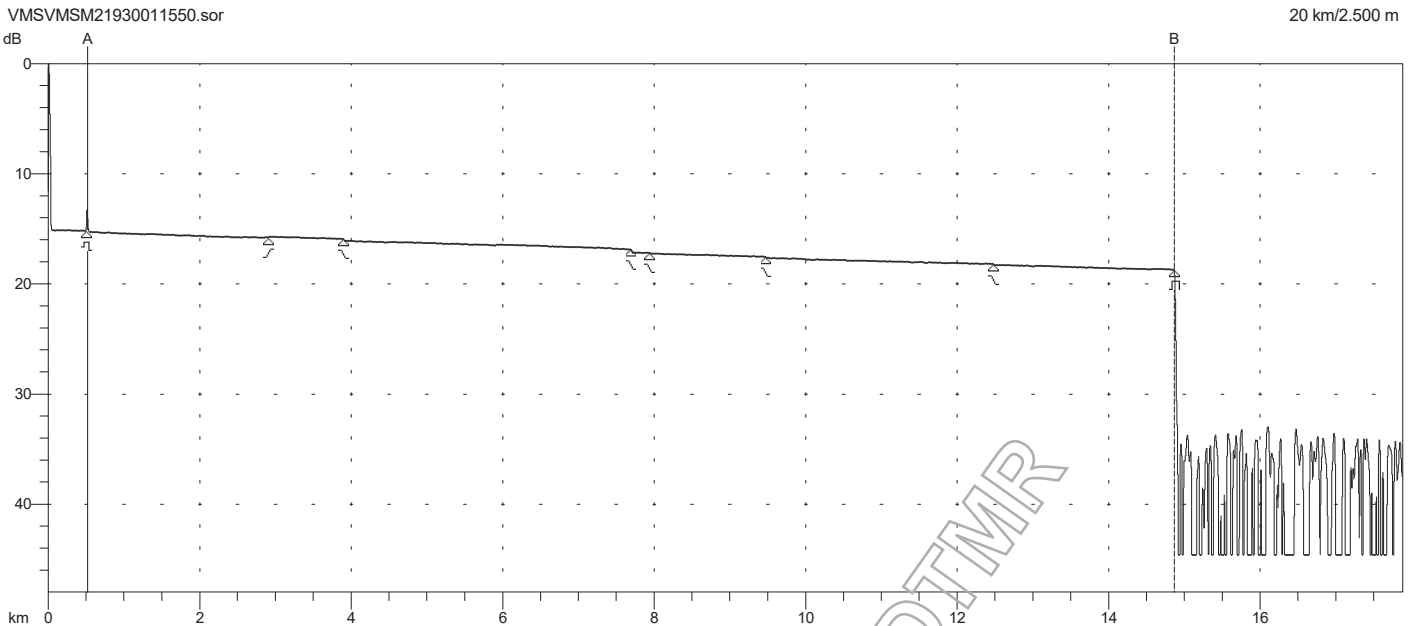
```

Primary Trace: VMSVMSM21930011310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:48 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode Wavelength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930011310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5056	0.10 0.207	0.17	-59.60
2/N	0.8018	0.09 0.289	0.07	
3/N	2.9060	0.69 0.329	-0.11	
4/N	3.8968	0.31 0.317	0.22	
5/N	5.8988	0.64 0.321	-0.06	
6/N	7.4335	0.54 0.350	0.10	
7/N	7.6914	0.07 0.258	0.20	
8/N	9.4585	0.58 0.329	0.13	
9/N	12.4667	0.97 0.324	0.09	
10/E	14.8696	0.75 0.311	>6.00	N/A

Overall (End-to-End) Loss: 5.54 dB



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.362 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930011550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:48 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

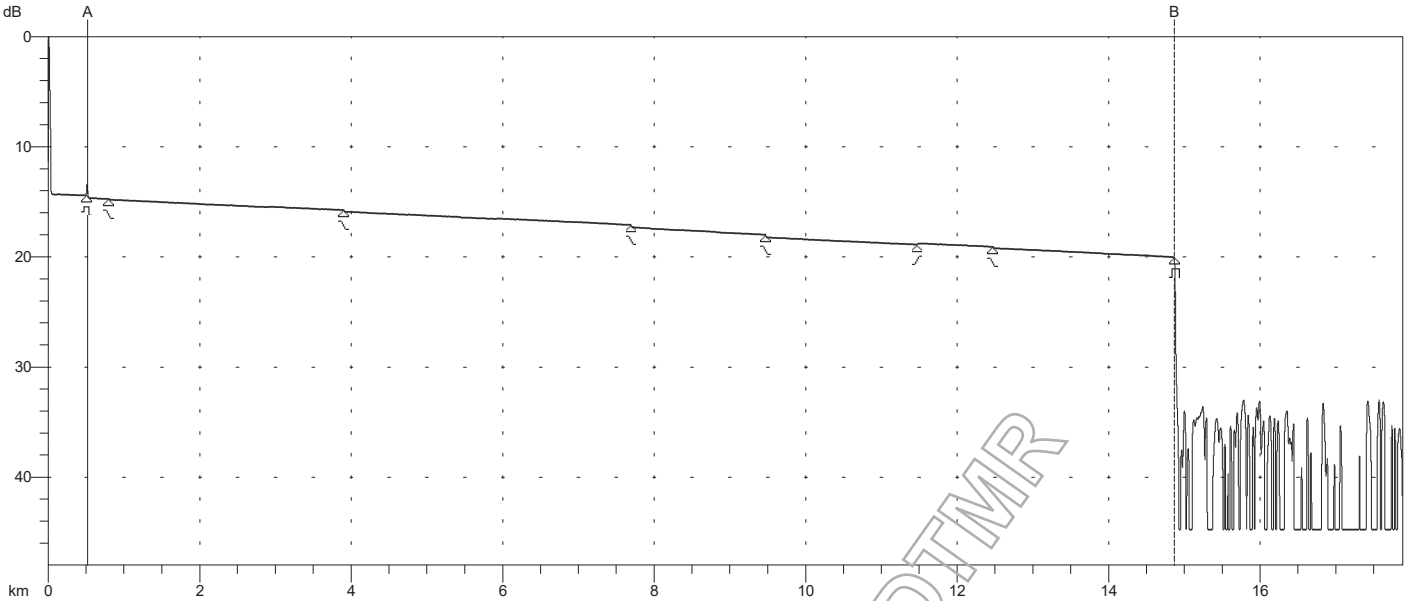
Analysis Results -- VMSVMSM21930011550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5029	0.06 0.113	0.13	-57.34
2/N	2.9076	0.47 0.194	-0.12	
3/N	3.8955	0.26 0.260	0.19	
4/N	7.6939	0.77 0.204	0.29	
5/N	7.9339	0.01 0.057	0.07	
6/N	9.4757	0.30 0.192	0.13	
7/N	12.4828	0.52 0.174	0.07	
8/E	14.8696	0.47 0.195	>6.00	N/A

Overall (End-to-End) Loss: 3.60 dB

VMSVMSM21930021310.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.326 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930021310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:49 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode WaveLength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

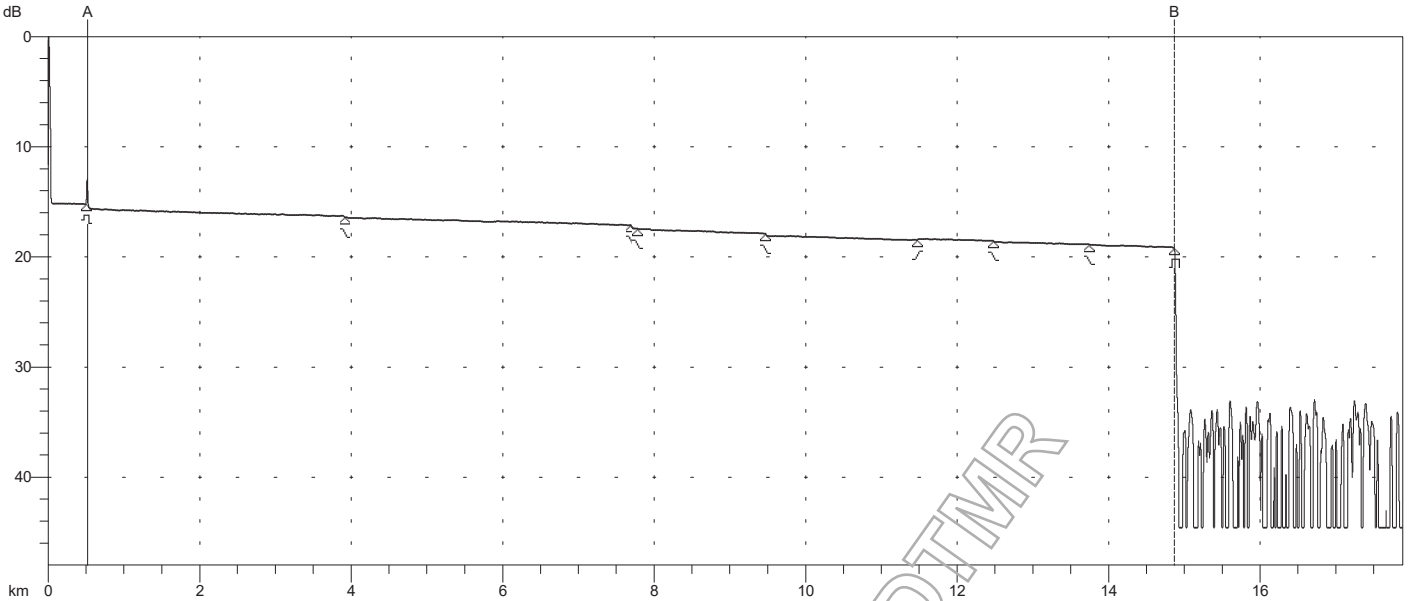
Analysis Results -- VMSVMSM21930021310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5031	0.12 0.239	0.23	-59.53
2/N	0.7916	0.08 0.281	0.07	
3/N	3.8968	0.94 0.302	0.14	
4/N	7.6914	1.20 0.315	0.23	
5/N	9.4687	0.65 0.367	0.25	
6/N	11.4682	0.65 0.324	-0.12	
7/N	12.4667	0.32 0.317	0.12	
8/E	14.8696	0.84 0.349	>6.00	N/A

Overall (End-to-End) Loss: 5.72 dB

VMSVMSM21930021550.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.718 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

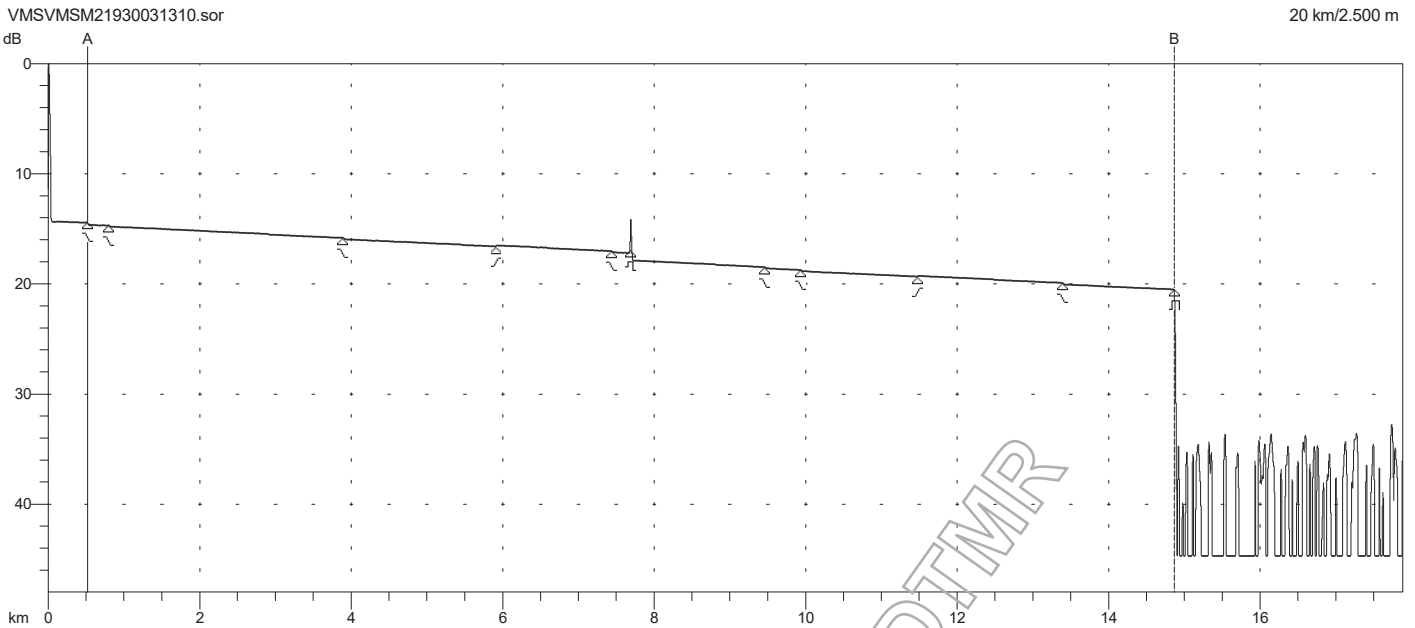
```

Primary Trace: VMSVMSM21930021550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:49 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode Wavelength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930021550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5029	0.06 0.128	0.47	-56.52
2/N	3.9159	0.69 0.203	0.12	
3/N	7.6939	0.60 0.160	0.33	
4/N	7.7731	-0.01 -0.080	0.06	
5/N	9.4706	0.39 0.232	0.19	
6/N	11.4745	0.40 0.197	-0.11	
7/N	12.4726	0.17 0.173	0.08	
8/N	13.7413	0.25 0.199	0.06	
9/E	14.8696	0.24 0.211	>6.00	N/A

Overall (End-to-End) Loss: 4.00 dB



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.141 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930031310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:56 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode WaveLength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

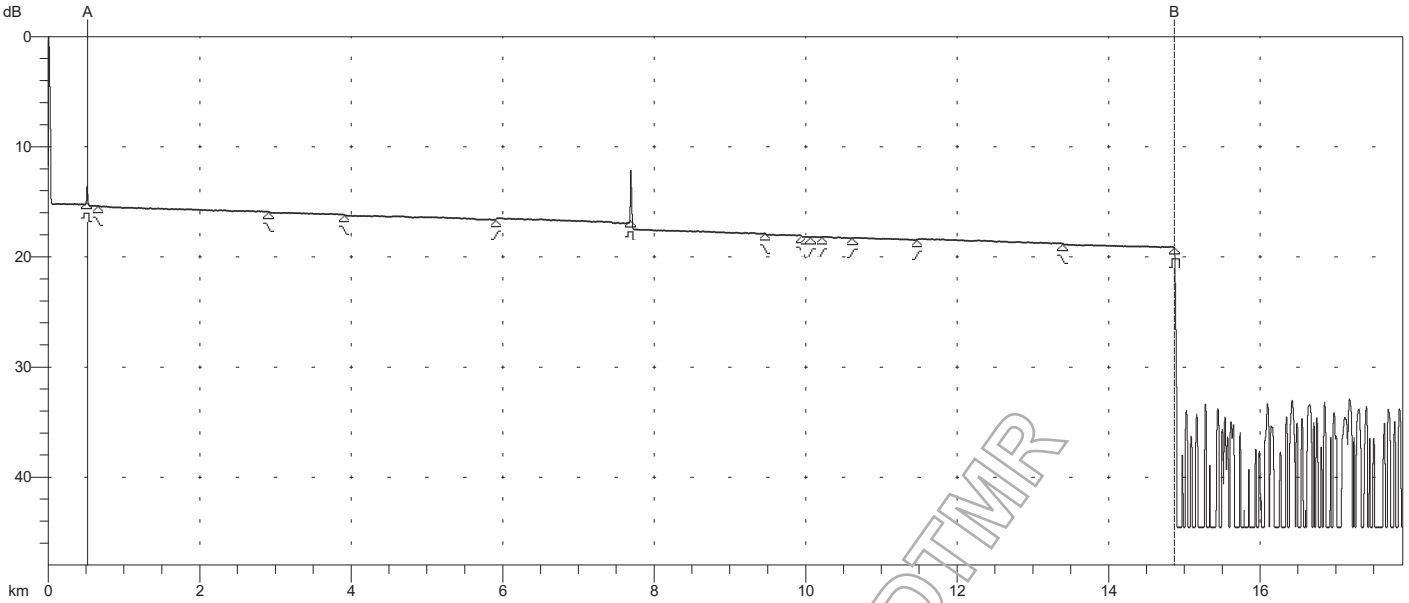
Analysis Results -- VMSVMSM21930031310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/N	0.5133	0.07 0.144	0.19	
2/N	0.7967	0.11 0.377	0.07	
3/N	3.8891	1.04 0.336	0.12	
4/N	5.9090	0.67 0.332	-0.09	
5/N	7.4310	0.52 0.342	0.10	
6/R	7.6838	0.06 0.235	0.67	-52.23
7/N	9.4585	0.63 0.357	0.11	
8/N	9.9335	0.15 0.317	0.11	
9/N	11.4708	0.48 0.314	-0.06	
10/N	13.3885	0.64 0.333	0.14	
11/E	14.8671	0.45 0.306	>6.00	N/A

Overall (End-to-End) Loss: 6.17 dB

VMSVMSM21930031550.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.310 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

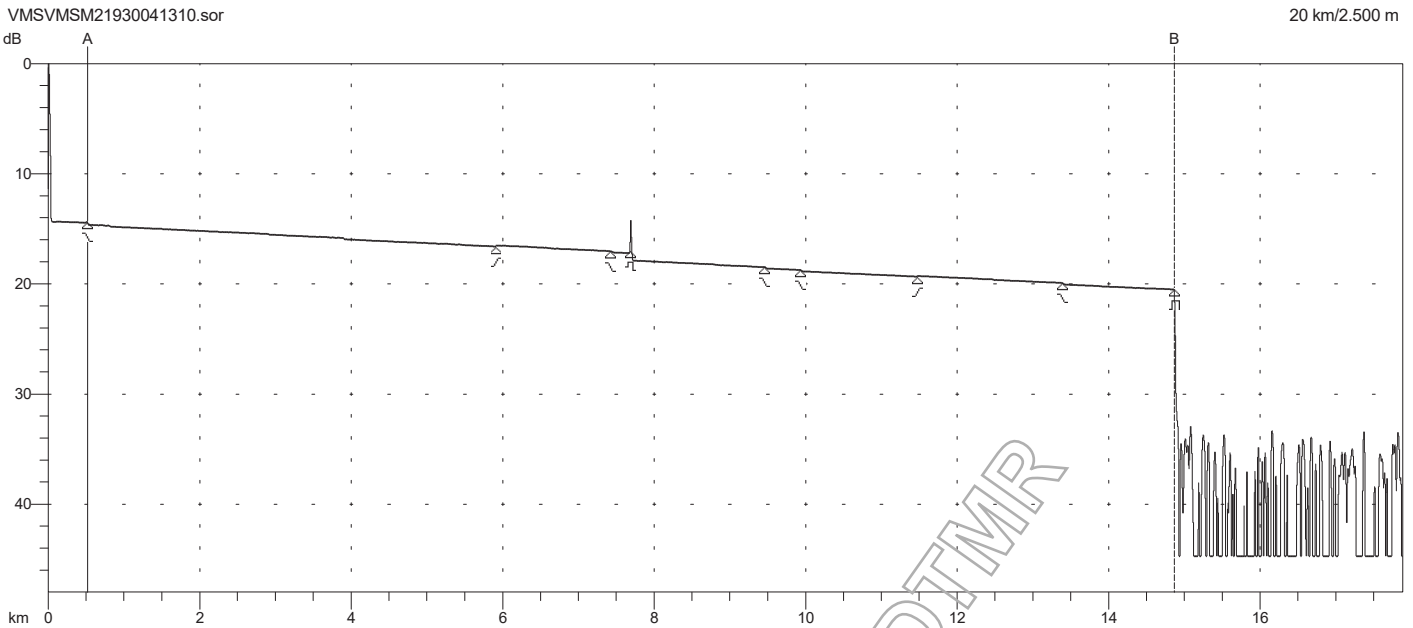
Primary Trace: VMSVMSM21930031550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:56 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930031550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5054	0.05 0.096	0.11	-58.34
2/N	0.6561	0.03 0.173	0.08	
3/N	2.9025	0.42 0.189	0.07	
4/N	3.9031	0.21 0.206	0.08	
5/N	5.9096	0.41 0.203	-0.12	
6/R	7.6837	0.39 0.222	0.58	-50.08
7/N	9.4604	0.38 0.214	0.09	
8/N	9.9403	0.08 0.175	0.10	
9/N	10.0041	0.05 0.804	-0.07	
10/N	10.0680	0.07 1.160	-0.05	
11/N	10.2160	0.07 0.453	-0.08	
12/N	10.6117	0.16 0.412	-0.06	
13/N	11.4694	0.21 0.244	-0.10	
14/N	13.3891	0.41 0.215	0.10	
15/E	14.8696	0.25 0.166	>6.00	N/A

Overall (End-to-End) Loss: 3.93 dB

Released under RTI - DTMR



A: 0.5218 km	Index: 1.467500	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.140 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1310 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1310 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
```

```

Primary Trace: VMSVMSM21930041310.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:55 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.467500
Fiber Type: Singlemode WaveLength: 1310 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -79.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

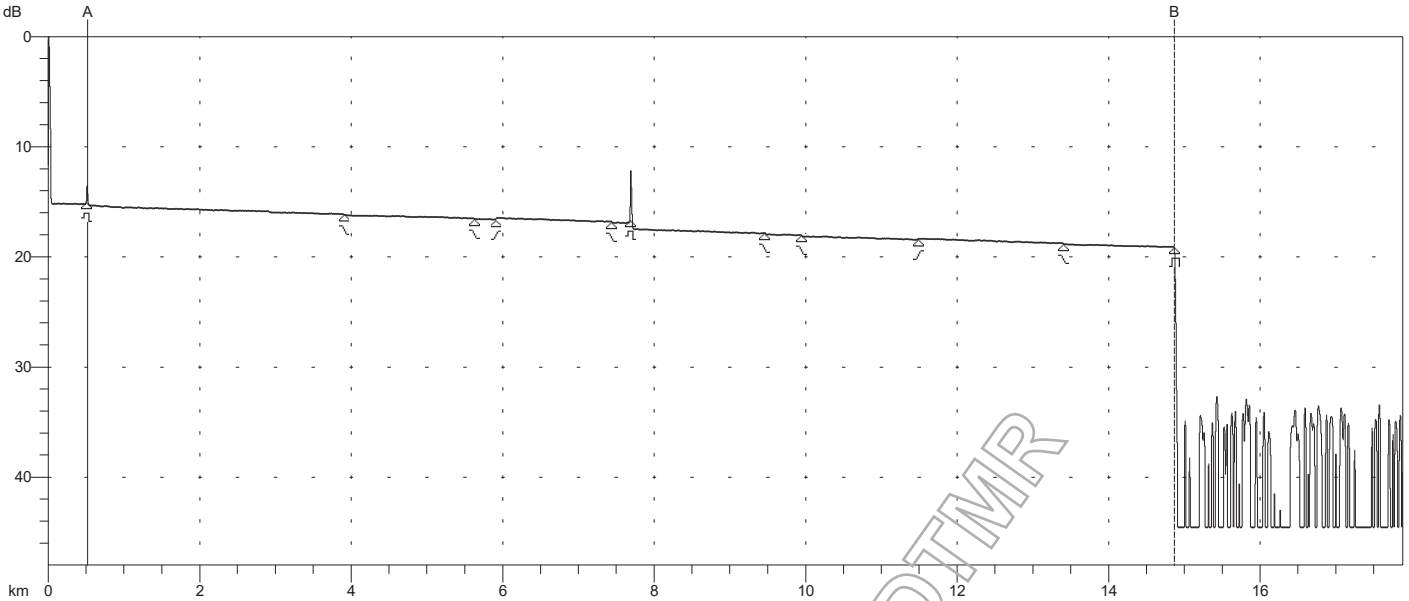
Analysis Results -- VMSVMSM21930041310.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/N	0.5133	0.08 0.153	0.19	
2/N	5.9090	2.00 0.371	-0.13	
3/N	7.4259	0.55 0.366	0.08	
4/R	7.6838	0.08 0.305	0.65	-52.50
5/N	9.4585	0.63 0.358	0.11	
6/N	9.9335	0.15 0.320	0.11	
7/N	11.4708	0.48 0.313	-0.07	
8/N	13.3885	0.65 0.340	0.13	
9/E	14.8671	0.46 0.309	>6.00	N/A

Overall (End-to-End) Loss: 6.17 dB

VMSVMSM21930041550.sor

20 km/2.500 m



A: 0.5218 km	Index: 1.468000	[H] 100ns / 10.0m
B: 14.8696 km	Splice Loss: 0.311 dB	Avg: 98080
A -> B: 14.3478 km	Reflectance: N/A	4136 MA/1550 nm/SM

```

----- Page 1 -----
[ Language: FR ]
[ Cable ID: LEMKE RD ]
[ Fiber ID: VMS ]
[ Wavelength: 1550 ]
[ Org. Loc: VMS ]
[ Term. Loc: M2193 ]
[ Cable Code: ]
[ Condition: CC ]
[ Operator: KYLE OEHLERS ]
[ Comment: ]
[ Supplier: Viavi ]
[ OTDR Model: MTS 4000 ]
[ S/N: 11000 ]
[ Optics Mod: 4136 MA ]
[ S/N: 15626 ]
[ S/W Rev.: 17.30 ]
[ Other: ]
    
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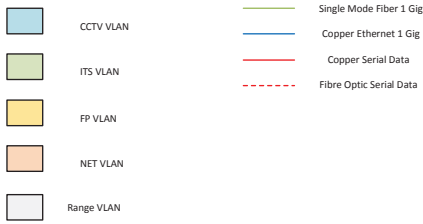
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Primary Trace: VMSVMSM21930041550.sor
Date: 14-Feb-19 Range: 20 km
Time: 10:55 PM Resolution: 2.500 m
Product Type: MTS 4000 Pulse Width: 100 ns
Opt. Module: 4136 MA Index: 1.468000
Fiber Type: Singlemode WaveLength: 1550 nm
FAS Thresholds: Horz. Shift: 0.0000 km
Loss: 0.05 dB Vert. Shift: 0.00 dB
Reflectance: -65.53 dB No. Averages: 98080
Fiber Break: 6.00 dB
Backscatter: -81.00 Trace Type: SR4731
Trace Flags: Analysis
ORL: N/A
    
```

Analysis Results -- VMSVMSM21930041550.sor

Feature #/Type	Location (km)	Event-Event (dB) (dB/Km)	Loss (dB)	Refl (dB)
1/R	0.5054	0.05 0.090	0.17	-58.31
2/N	3.9031	0.74 0.218	0.08	
3/N	5.6288	0.33 0.191	0.08	
4/N	5.9096	0.00 0.007	-0.13	
5/N	7.4412	0.32 0.208	0.09	
6/R	7.6837	0.00 0.004	0.59 (2P)	-50.82
7/N	9.4579	0.36 0.200	0.07	
8/N	9.9403	0.11 0.218	0.10	
9/N	11.4873	0.31 0.200	-0.08	
10/N	13.4044	0.42 0.218	0.10	
11/E	14.8696	0.22 0.148	>6.00	N/A

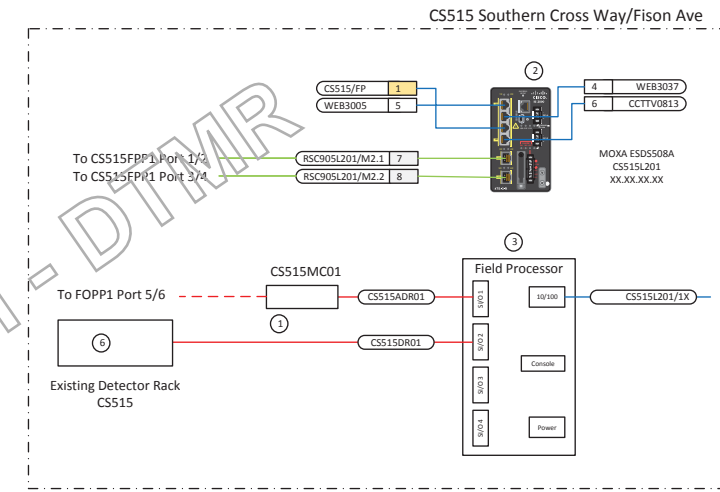
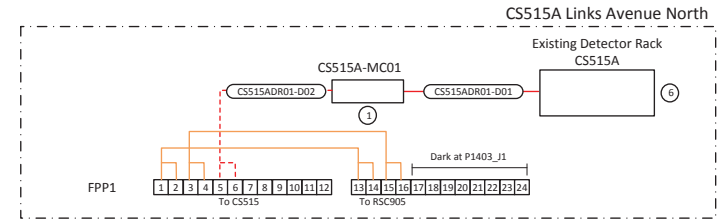
Overall (End-to-End) Loss: 3.92 dB



Item	Description	Part Number	Qty
1	Serial Media Convertor	TCF-142-S-SC-T	2
2	Network Switch	Moxa EDS508A	1
3	Field Processor	Existing FP.MINI-6 (QTRON4)	1
Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value			
6	Detector Rack	Existing	2

Site	Name	Switch	VLAN	IP	SN	GW	Port	Description	VLAN	IP Address	Subnet	Gateway	Notes
CS515	Southern Cross Way at Fison Avenue	CS515L201					1	CS515/FP				DHCP	Part of East/West Arterial Network
							2						
							3						
							4	WEB3037					
							5	WEB3005					
							6	CCTV0813					
							7	FOBOT 1/2					
							8	FOBOT 3/4					

Detector Rack ID	CS515/FP Port No.	Input Number	Detector ID	Detector Description
CS515DR01	2	1	515-01	Southern Cross Way SB after Links Ave Exit Lane 1
		2	515-02	Southern Cross Way SB after Links Ave Exit Lane 1-Speed
		3	515-03	Southern Cross Way SB after Links Ave Exit Lane 2
		4	515-04	Southern Cross Way SB after Links Ave Exit Lane 2-Speed
		5	515-05	Southern Cross Way NB after Fison Ave Exit Lane 2
		6	515-06	Southern Cross Way NB after Fison Ave Exit Lane 2-Speed
		7	515-07	Southern Cross Way NB after Fison Ave Exit Lane 1
		8	515-08	Southern Cross Way NB after Fison Ave Exit Lane 1-Speed
		9	515-09	Fison Ave NB Exit Lane 2
		10	515-10	Fison Ave NB Exit Lane 1
		11	515-11	Links Ave SB Exit
CS515ADR01	1	3	515-12	Links Ave SB On Ramp Lane 1
		4	515-13	Links Ave SB On Ramp Lane 2



Part Refuse Sch.4 Part 4 s.7(1)(b) Commercial value

Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads	CS515 and CS515A Connection Detail				Site No.	Queensland Government
					Horiz. Datum Height Datum WGS84		Metropolitan District					Department of Transport & Main Roads	
B	Issued for Construction	CO	7/08/2018	Auxiliary Drawing #:	Survey Books		Reference Points	Drawn by Colin Otto 15/05/2018	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEQ)	Job No.
A	Original Issue A3				Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise	Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Contract No.
													Drawing No.
													Series No.
													1 of 1

TE Connectivity Closure Flash Test Guidelines



Closure Flash Test Guidelines

Tools required: Single barrel-foot-pump, low scale air pressure gauge and soapy solution

1. Remove the dust cap on the valve and connect foot pump



When testing DO NOT inflate closure higher than 5psi/34kpa

2. Pump the foot pump 10 times

- Check gauge for positive reading <5psi/34kpa
- If zero reading then investigate major leak, sealing ring etc.
- If positive reading then continue to next step

3. Using soapy solution (liquid detergent and water) apply soap suds liberally to:

- Valve, Heat-shrinks on all ports, branch clip, and around closure clamp

4. Check for steady stream of bubbles-indicating a leak path

5. Pump a further 5 times and re-check for leaks



IMPORTANT! Release all air from closure once testing is complete

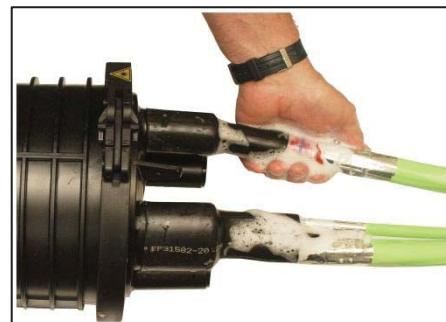
6. Replace dust cap on the valve

Possible causes for Pressure Test Failure:

1. Rubber O- ring damaged, dirty or fitted incorrectly
2. Closure clamp fitted incorrectly
3. Faulty installation of heat-shrinks
4. Valve damaged or incorrectly sealed





Re-Work Action:

1. Remove O-ring; check placement, condition and cleanliness
2. Refit closure clamp correctly (replace if damaged)
3. Replace damaged heat-shrink; use wrap-around heat shrink:
(oval port – TE part no. F08641-000, round port-TE part no. E91474-000)
4. Replace damaged valve or re-seat valve assembly to ensure correct seal



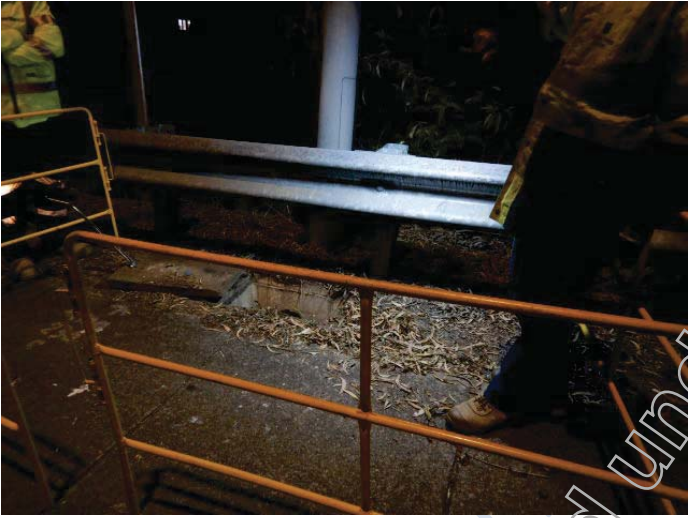



Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	1 – BCC P5210 – J1				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St footpath						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
BCC							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>BCC Joint 1 – 216f incoming and 12f outgoing to Hoyland St Splice TMR P702</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	2	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St footpath				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	3	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St footpath				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	4	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Southbound onramp / End of footpath				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	5	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St Southbound onramp Island				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

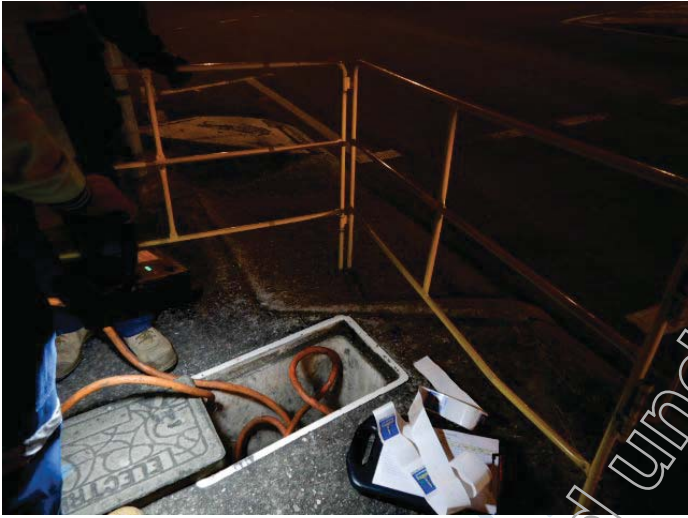



Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	6	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St Southbound onramp Island				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	7				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f - J1 to TMR Splice P702 / TMR 002 to Hoyland 1017 CCTV Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	7	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Ped Xing				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR 002 to Hoyland 1017 CCTV Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>




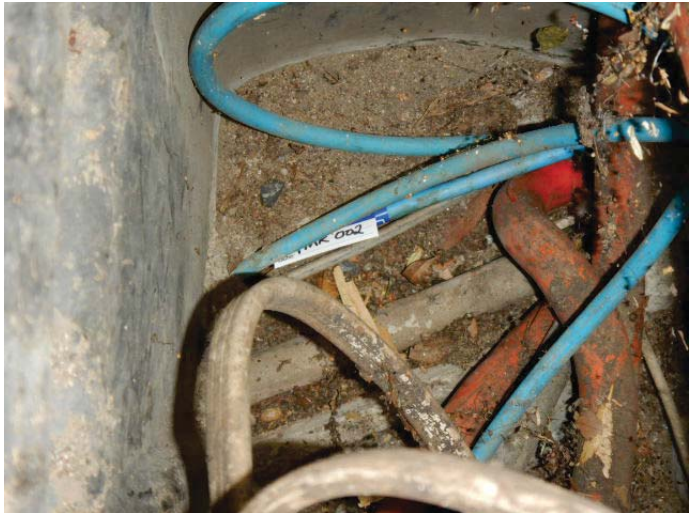
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	8	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St Centre Island				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
PIT TYPE					
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR 002 to Hoyland 1017 CCTV Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>




Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	9	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Cabinet M2161				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	3				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR 002 to Hoyland CCTV 1017 Pole Joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	10	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Southbound offramp				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	Round				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	BCC 12f – J1 to TMR Splice P702 / TMR001 runs down Southbound offramp / TMR002 goes to Hoyland CCTV 1017 joint from P702 Splice				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	11	DATE	13 th August 2019		
PIT LOCATION:	Hoyland St – Southbound Offramp				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	4				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR001 runs down Southbound offramp to P039 joint / TMR002 goes to Hoyland CCTV 1017 joint from P702 Splice</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

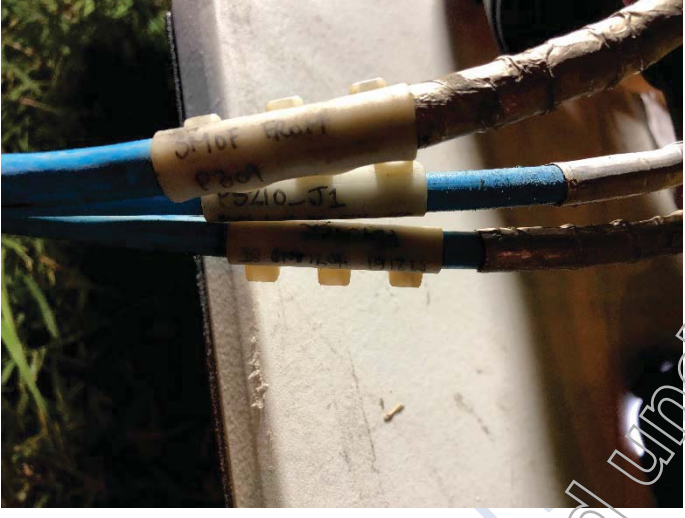


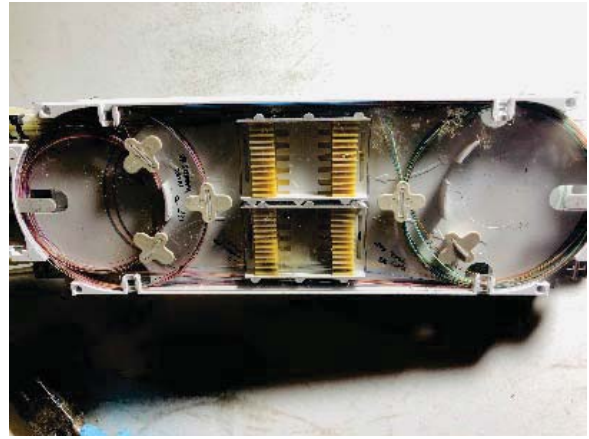
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	12 – TMR pit 702 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St – Southbound Offramp						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>BCC 12f from BCC joint Hoyland St / TMR001 runs down Southbound offramp to P309 joint / TMR002 goes to Hoyland CCTV 1017 joint</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>




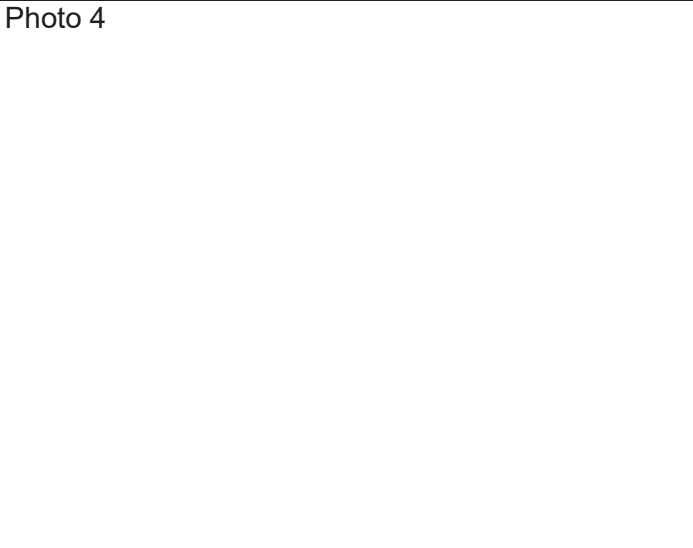
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	12 – Joint TMR pit 702 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St – Southbound Offramp						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>BCC 12f – J1 to TMR Splice P702 / TMR001 runs down Southbound offramp to P309 joint / TMR002 goes to Hoyland CCTV 1017 joint</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>



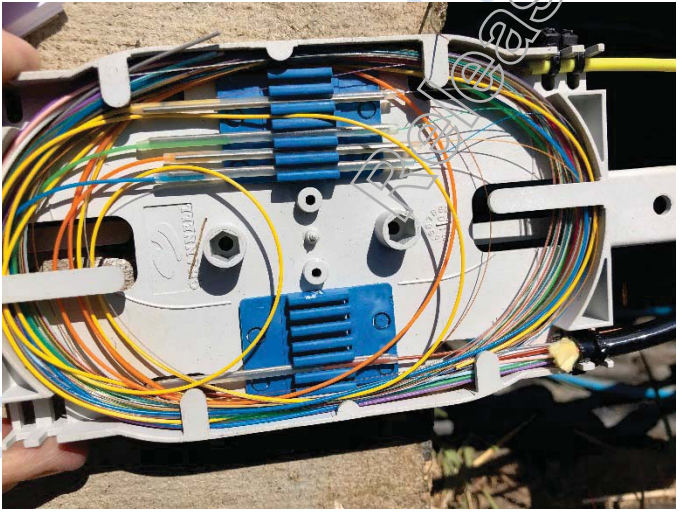
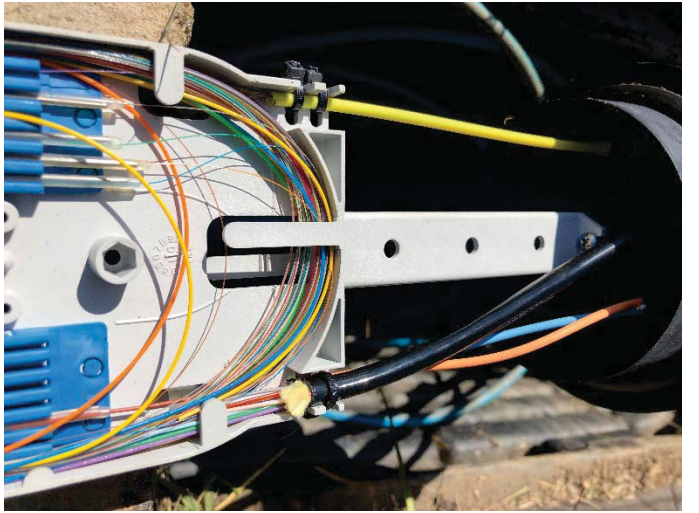
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	13 – CCTV 1017 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Hoyland St CCTV 1017						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	TMR002 from Hoyland Splice Joint TMR pit 702 / Milspec M2161 to Cabinet M2161 / Mispec to CCTV Camera						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT





PIT NUMBER:	13 – CCTV 1017 Joint				DATE	13 th August 2019	
PIT LOCATION:	CCTV Pole in Island – Southbound onramp						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	4						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:							

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Webby's Pty Ltd
Released under RTI - DTMR
The Cabling Specialists


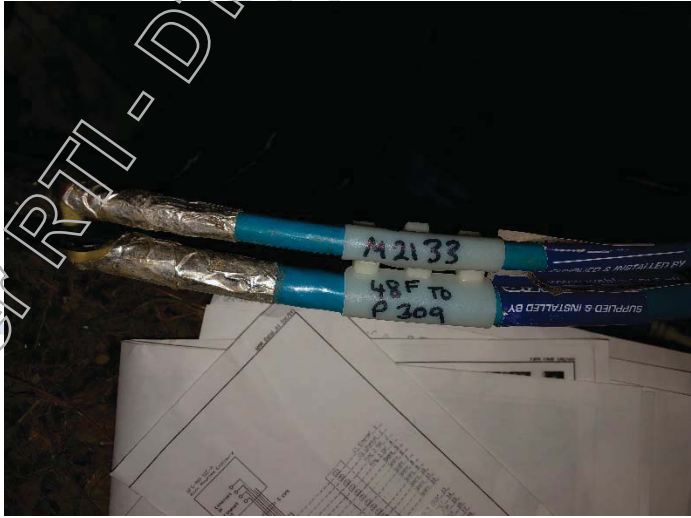
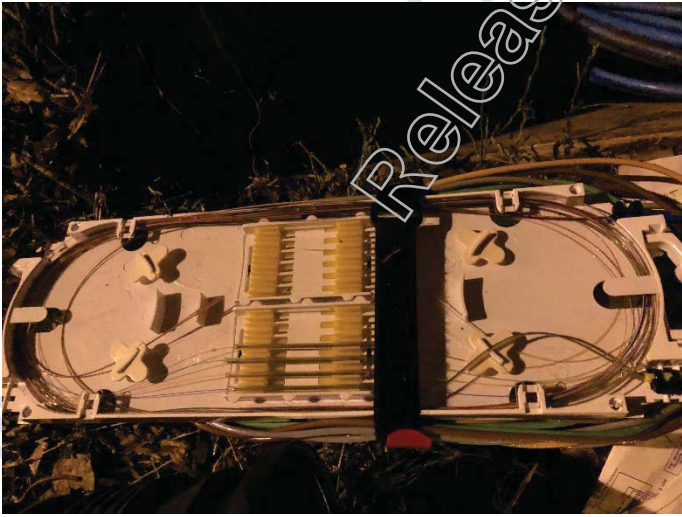

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	14 – TMR pit 606				DATE	13 th August 2019	
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>TMR003 48f to P309 CS797 / TMR004 to M2133</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>




Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	14 – TMR pit 606 Splice Joint	DATE	13 th August 2019		
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	6				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>TMR003 48f to P309 CS797 / TMR004 to M2133</u>				

<p>Photo 1</p> 	<p>Photo 2</p> 
LOCATION	OVERHEAD
<p>Photo 3</p> 	<p>Photo 4</p> 
ENTRY from pit #	EXIT to pit #





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	15 – TMR pit 605				DATE	13 th August 2019	
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>TMR003 48f to P309 CS797 / TMR004 to M2133</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	16 – TMR pit 604				DATE	13 th August 2019	
PIT LOCATION:	Strathpine Road centre island / Bald hills Road						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>TMR003 48f to P309 CS797</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	17 – TMR pit 603				DATE	13 th August 2019	
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>TMR003 48f to P309 CS797</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	18	DATE	13 th August 2019		
PIT LOCATION:	Humrich Place - at end of road				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	6				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:					

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	19 – TMR P309				DATE	13 th August 2019	
PIT LOCATION:	Cabinet CS797						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	TMR003 – 48f to P606 Splice M2133 / P307 Grand St / TMR001 to P702 Hoyland St / CS797 to MUX						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

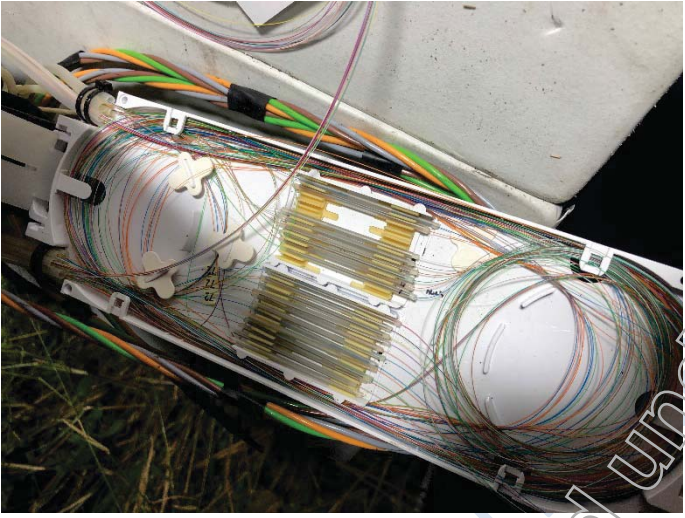
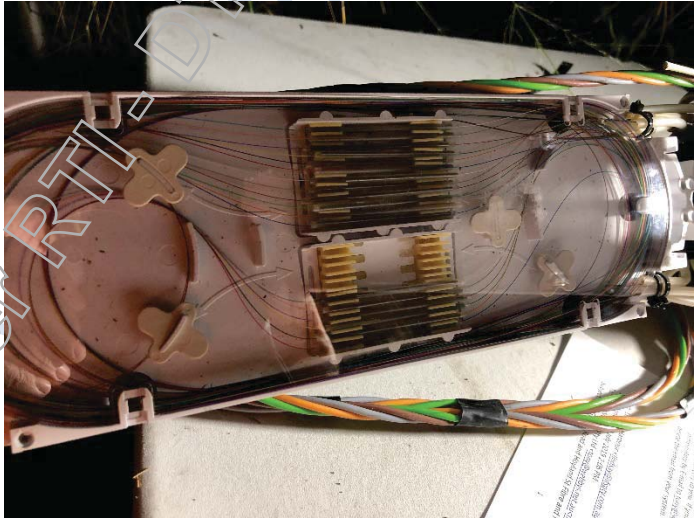
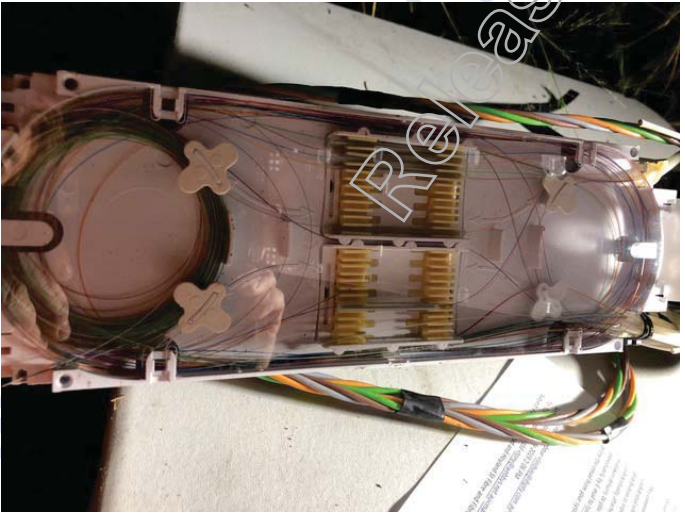
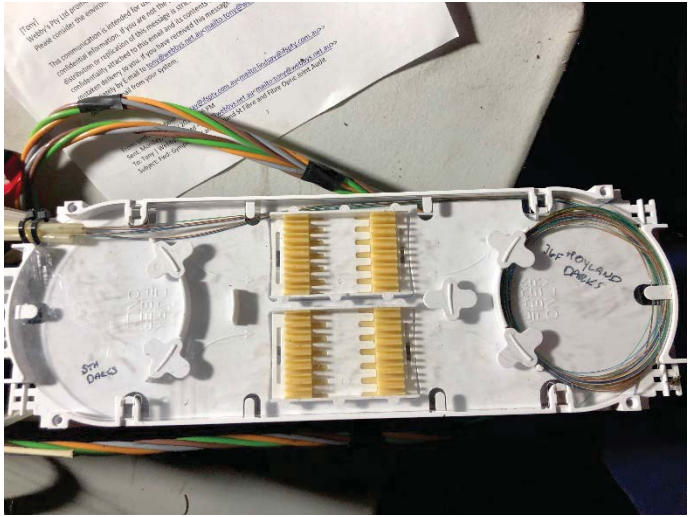
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	19 – TMR P309 Splice joint				DATE	13 th August 2019	
PIT LOCATION:	Cabinet CS797						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:							

<p>Photo 1</p> 	<p>Photo 2</p> 
LOCATION	OVERHEAD
<p>Photo 3</p> 	<p>Photo 4</p> 
ENTRY from pit #	EXIT to pit #

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	19 – TMR P309 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Cabinet CS797						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:							

<p>Photo 1</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 1</p>	<p>Photo 2</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 2</p>
<p>Photo 3</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 3</p>	<p>Photo 4</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 4</p>

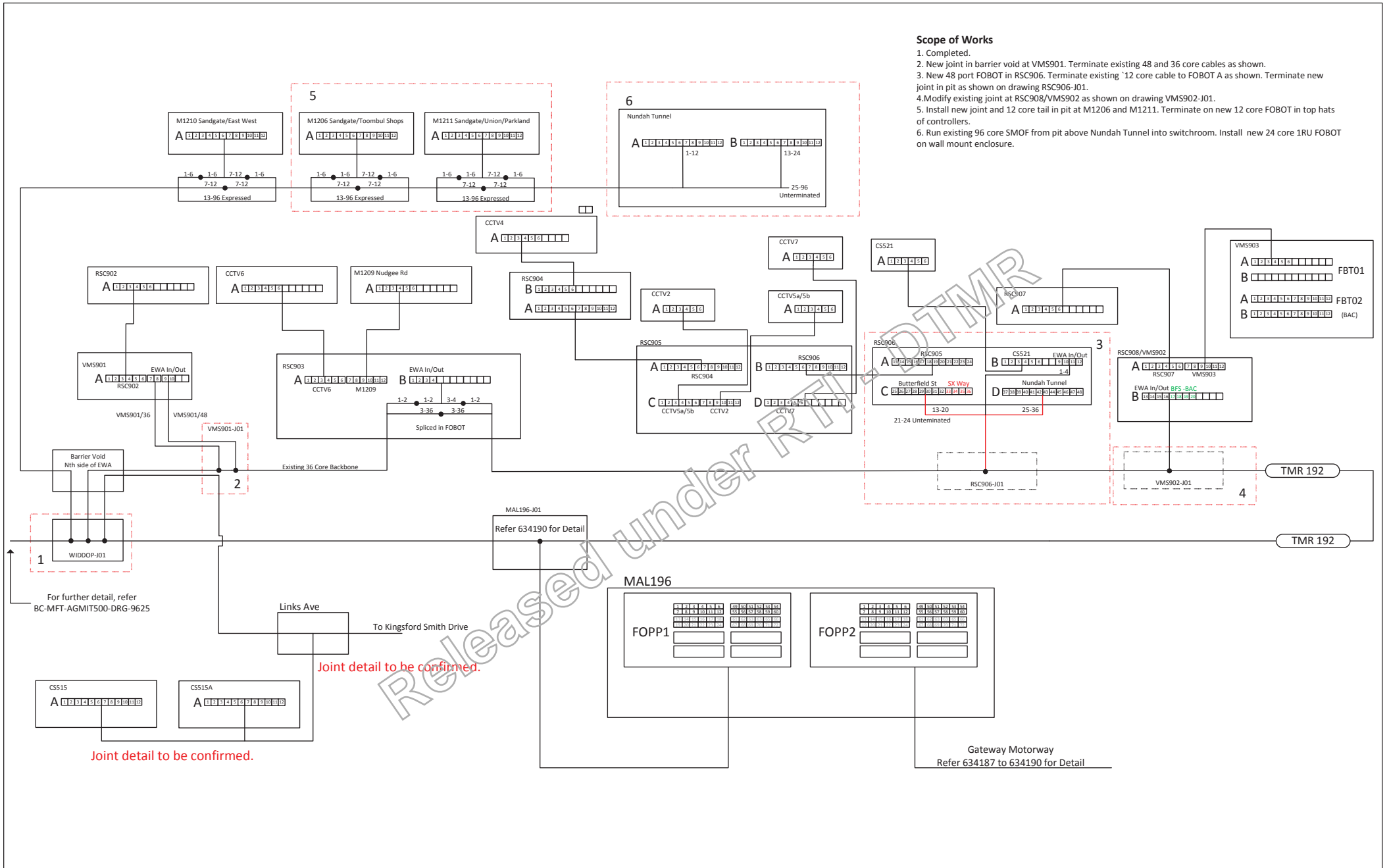
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:						DATE	13 th August 2019	
PIT LOCATION:								
PIT OWNER	Distance to next Pit		Conduit Full		Conduit Depth		Blockage A	Blockage B
PIT TYPE								
PIT CONDITION:	EXCELLENT		GOOD		FAIR		POOR	REPLACE
COMMENTS:								

Photo 1	Photo 2
LOCATION	OVERHEAD
Photo 3	Photo 4
ENTRY from pit #	EXIT to pit #

Scope of Works

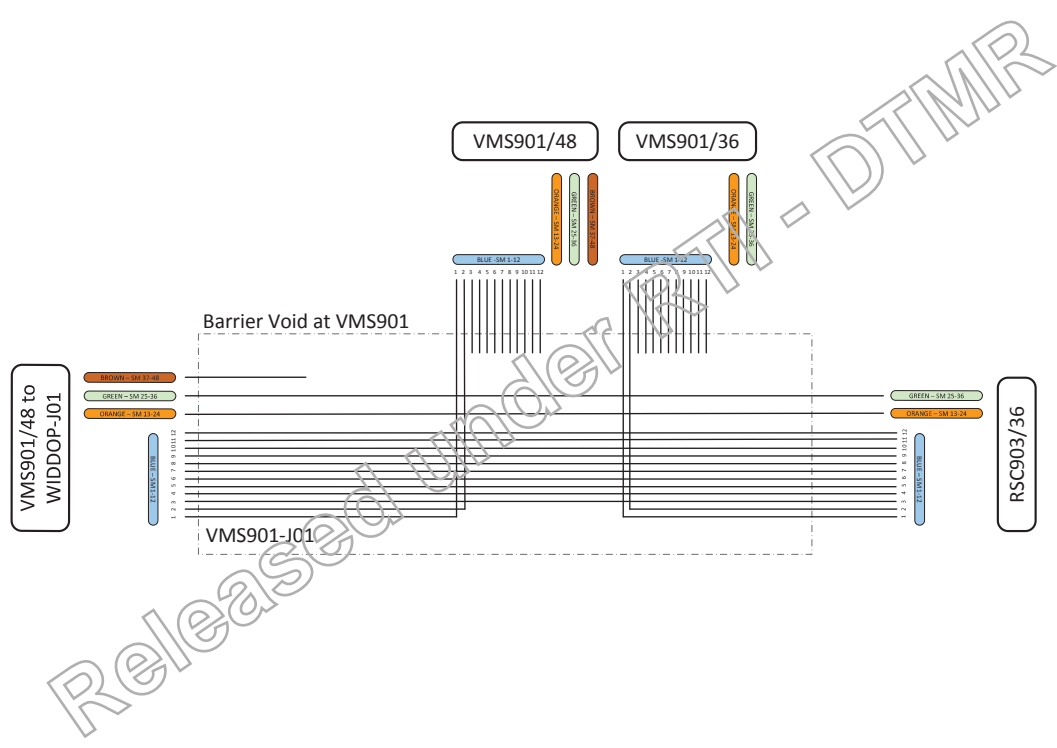
1. Completed.
2. New joint in barrier void at VMS901. Terminate existing 48 and 36 core cables as shown.
3. New 48 port FOBOT in RSC906. Terminate existing 12 core cable to FOBOT A as shown. Terminate new joint in pit as shown on drawing RSC906-J01.
4. Modify existing joint at RSC908/VMS902 as shown on drawing VMS902-J01.
5. Install new joint and 12 core tail in pit at M1206 and M1211. Terminate on new 12 core FOBOT in top hats of controllers.
6. Run existing 96 core SMOF from pit above Nundah Tunnel into switchroom. Install new 24 core 1RU FOBOT on wall mount enclosure.



Joint detail to be confirmed.

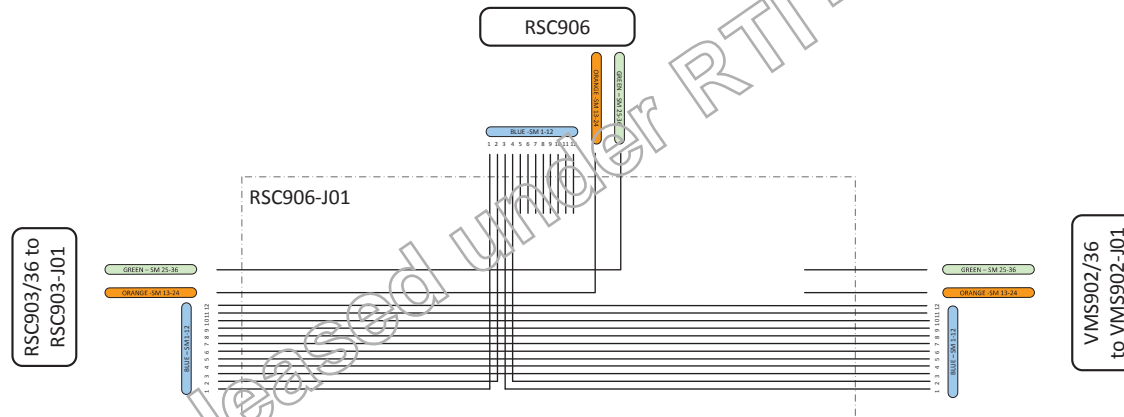
Joint detail to be confirmed.

Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads				Site No.		Queensland Government			
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						Height Datum					Reference Points				Contract No.				
B		Issued for Construction	CO	30/07/2018	Auxiliary Drawing #:	Survey Books			Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEG)	
A		Original Issue A3			Classification	Security-in-Confidence		Dimensions shown in millimetres except where shown otherwise						Colin Otto				C Otto 12762	
Visio Files														© Copyright TMR 2016				Series No. 1 of 1	

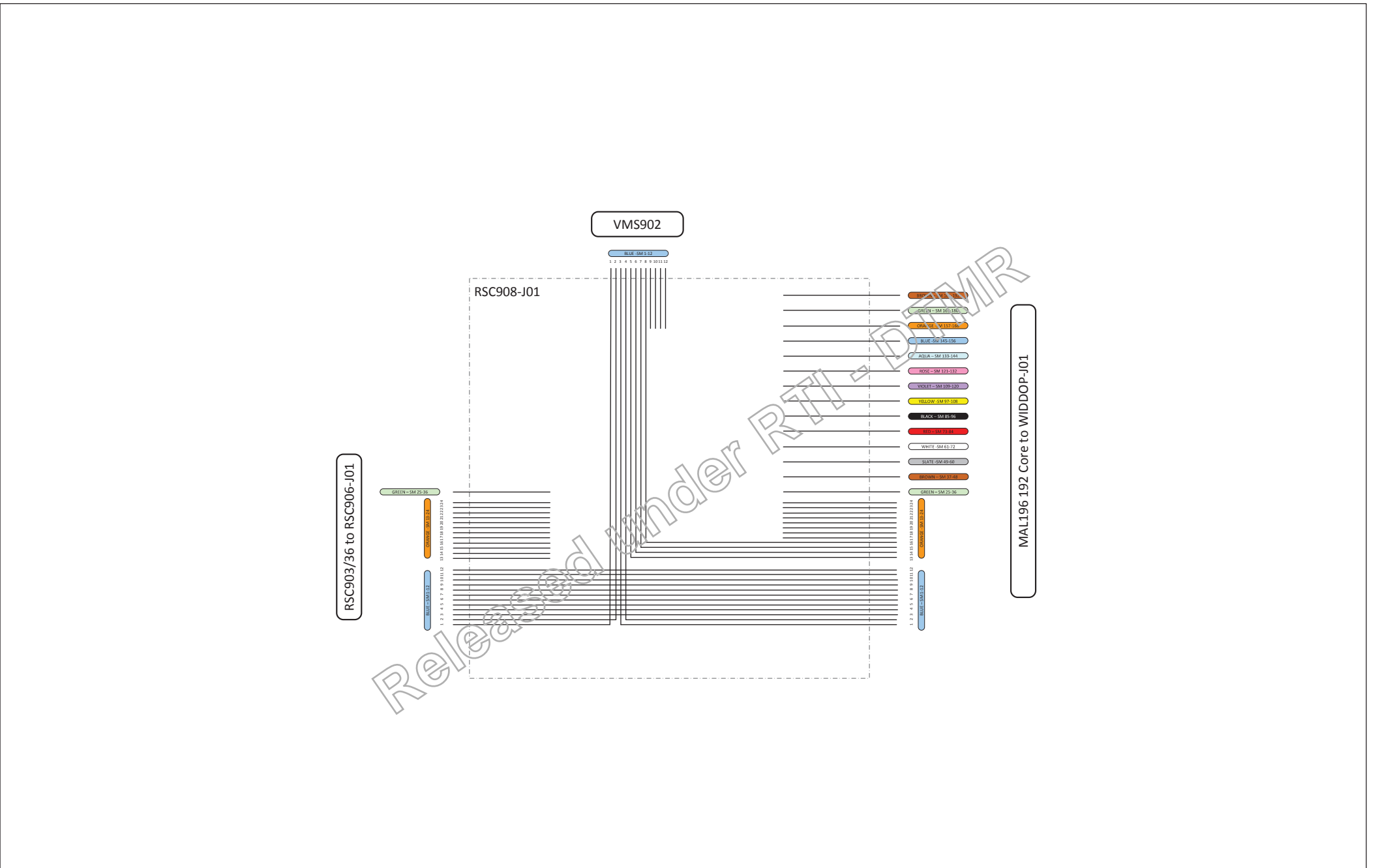


Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				VMS901-J01		Site No.	 Department of Transport & Main Roads			
						Horiz. Datum Height Datum WGS84			Metropolitan District				Splicing Detail			Contract No. Drawing No. Series No.			
B	Issued for Construction	CO	30/07/2018		Auxiliary Drawing #:	Survey Books		Dimensions shown in millimetres except where shown otherwise © Copyright TMR 2016	Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn by Colin Otto 15/05/2018	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEG) C Otto 12762	A
A	Original Issue A3					Classification	Security-in-Confidence												

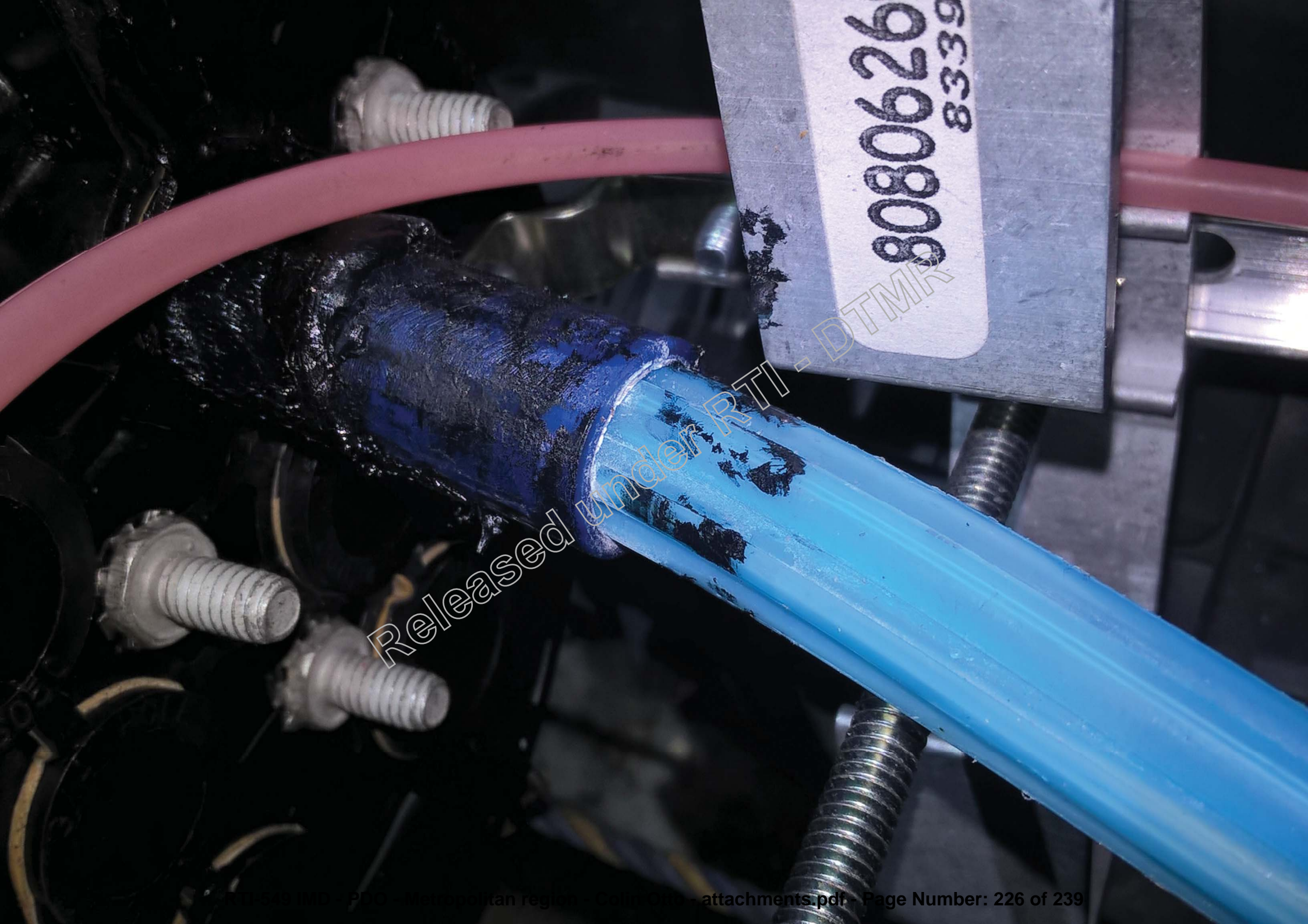
Released under RTI - DTMR



Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads Metropolitan District	RSC906-J01 Joint Splicing Detail	Site No.	Queensland Government Department of Transport & Main Roads																							
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Horiz. Datum	WGS84																																
Height Datum																																	
				Auxiliary Drawing #:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Survey Books</td> <td style="width: 50%;"></td> </tr> </table>	Survey Books																											
Survey Books																																	
				Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">Reference Points</th> </tr> <tr> <th>Preceding RP</th> <th>Dist. To start of job (km)</th> <th>From start to end of job</th> <th>From end to Following RP</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Reference Points				Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP					Drawn by Colin Otto 15/05/2018	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEQ) C Otto 12762	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Job No.</td> <td style="width: 50%;"></td> </tr> <tr> <td>Contract No.</td> <td></td> </tr> <tr> <td>Drawing No.</td> <td style="text-align: right;">A</td> </tr> <tr> <td>Series No.</td> <td style="text-align: right;">1 of 1</td> </tr> </table>	Job No.		Contract No.		Drawing No.	A	Series No.	1 of 1
Reference Points																																	
Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP																														
Job No.																																	
Contract No.																																	
Drawing No.	A																																
Series No.	1 of 1																																
Visio Files				© Copyright TMR 2016																													



Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				RSC908-J01				Site No.	 Department of Transport & Main Roads	
						Horiz. Datum			WGS84	Metropolitan District				Joint Splicing Detail					
B		Issued for Construction	CO		Auxiliary Drawing #:	Survey Books		Dimensions shown in millimetres except where shown otherwise	Reference Points				Drawn by Colin Otto 15/05/2018	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEQ) C Otto 12762	Contract No.	A
A		Original Issue A3				Classification	Security-In-Confidence		Preceding RP	Dist. To start of job (km)	From start to end of job	From end to Following RP						Following RP	Drawing No.


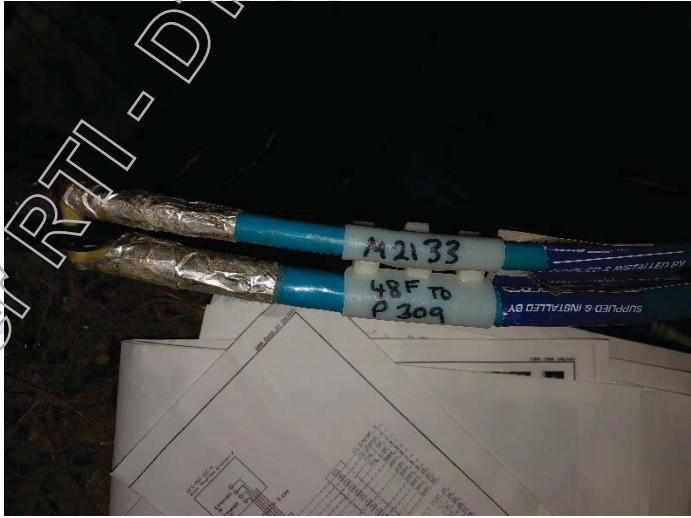
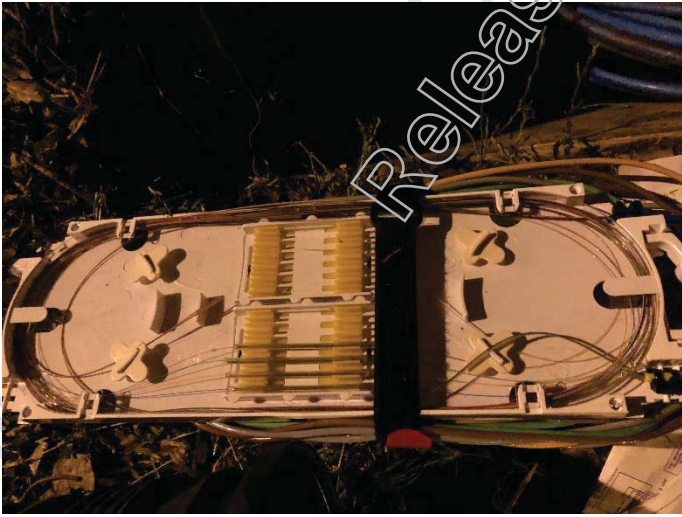



9080626
8339

Released under RTI - DTMR



Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	14 – TMR pit 606 Splice Joint	DATE	13 th August 2019		
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	6				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>TMR003 48f to P309 CS797 / TMR004 to M2133</u>				

<p>Photo 1</p> 	<p>Photo 2</p> 
LOCATION	OVERHEAD
<p>Photo 3</p> 	<p>Photo 4</p> 
ENTRY from pit #	EXIT to pit #





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	15 – TMR pit 605				DATE	13 th August 2019	
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>TMR003 48f to P309 CS797 / TMR004 to M2133</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	16 – TMR pit 604				DATE	13 th August 2019		
PIT LOCATION:	Strathpine Road centre island / Bald hills Road							
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B			
TMR								
PIT TYPE	6							
PIT CONDITION:	EXCELLENT		GOOD		FAIR		POOR	REPLACE
COMMENTS:	<u>TMR003 48f to P309 CS797</u>							

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	17 – TMR pit 603				DATE	13 th August 2019	
PIT LOCATION:	Strathpine Road / Bald hills Road – Cabinet M2133						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:	<u>TMR003 48f to P309 CS797</u>						

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	18	DATE	13 th August 2019		
PIT LOCATION:	Humrich Place - at end of road				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	6				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:					

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>





Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	19 – TMR P309	DATE	13 th August 2019		
PIT LOCATION:	Cabinet CS797				
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B
TMR					
PIT TYPE	6				
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE
COMMENTS:	<u>TMR003 – 48f to P606 Splice M2133 / P307 Grand St / TMR001 to P702 Hoyland St / CS797 to MUX</u>				

<p>Photo 1</p>  <p style="text-align: center;">LOCATION</p>	<p>Photo 2</p>  <p style="text-align: center;">OVERHEAD</p>
<p>Photo 3</p>  <p style="text-align: center;">ENTRY from pit #</p>	<p>Photo 4</p>  <p style="text-align: center;">EXIT to pit #</p>

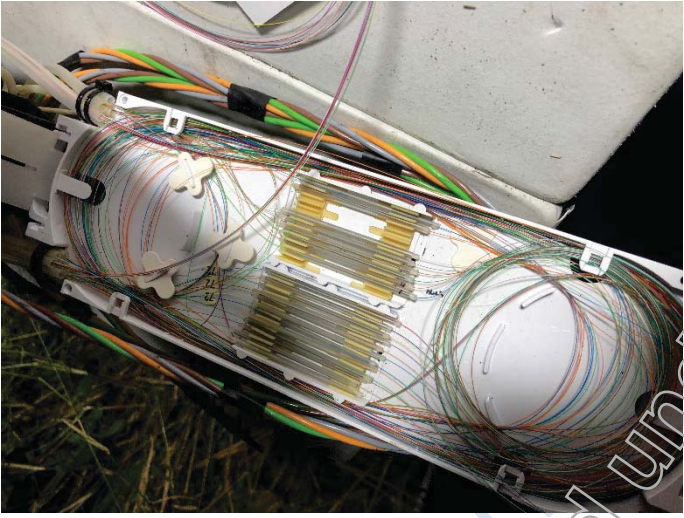
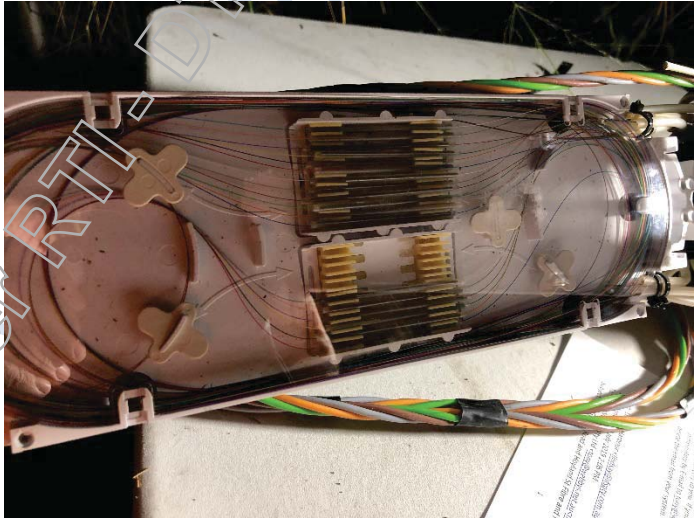
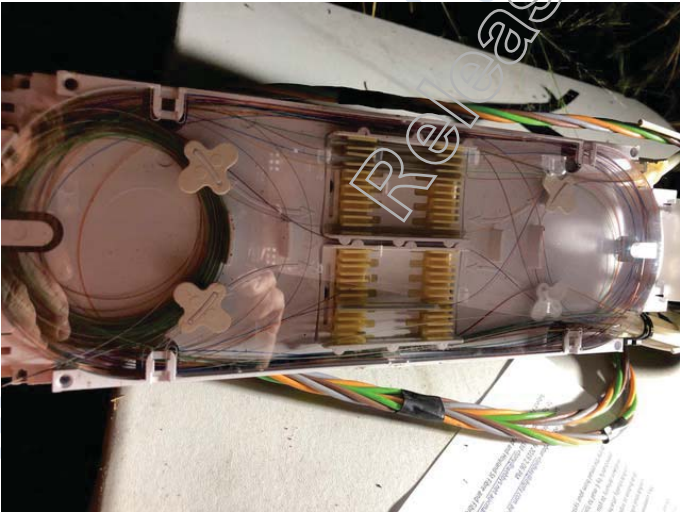
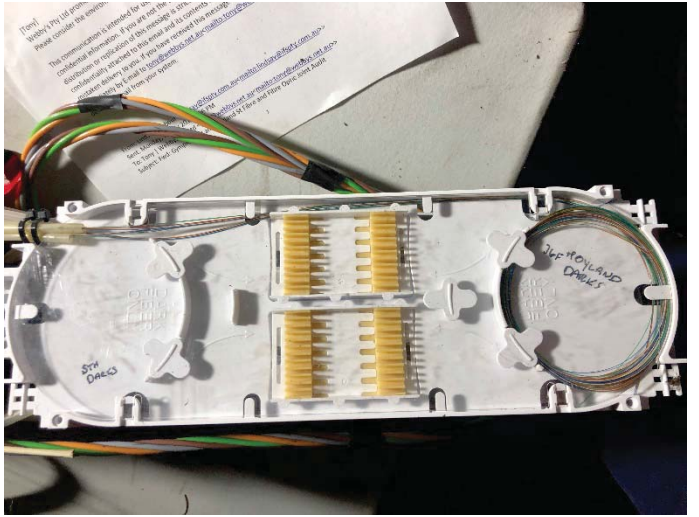
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	19 – TMR P309 Splice joint				DATE	13 th August 2019	
PIT LOCATION:	Cabinet CS797						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:							

<p>Photo 1</p> 	<p>Photo 2</p> 
LOCATION	OVERHEAD
<p>Photo 3</p> 	<p>Photo 4</p> 
ENTRY from pit #	EXIT to pit #

Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:	19 – TMR P309 Splice Joint				DATE	13 th August 2019	
PIT LOCATION:	Cabinet CS797						
PIT OWNER	Distance to next Pit	Conduit Full	Conduit Depth	Blockage A	Blockage B		
TMR							
PIT TYPE	6						
PIT CONDITION:	EXCELLENT	GOOD	FAIR	POOR	REPLACE		
COMMENTS:							

<p>Photo 1</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 1</p>	<p>Photo 2</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 2</p>
<p>Photo 3</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 3</p>	<p>Photo 4</p>  <p style="text-align: center; color: blue; font-weight: bold;">Tray 4</p>

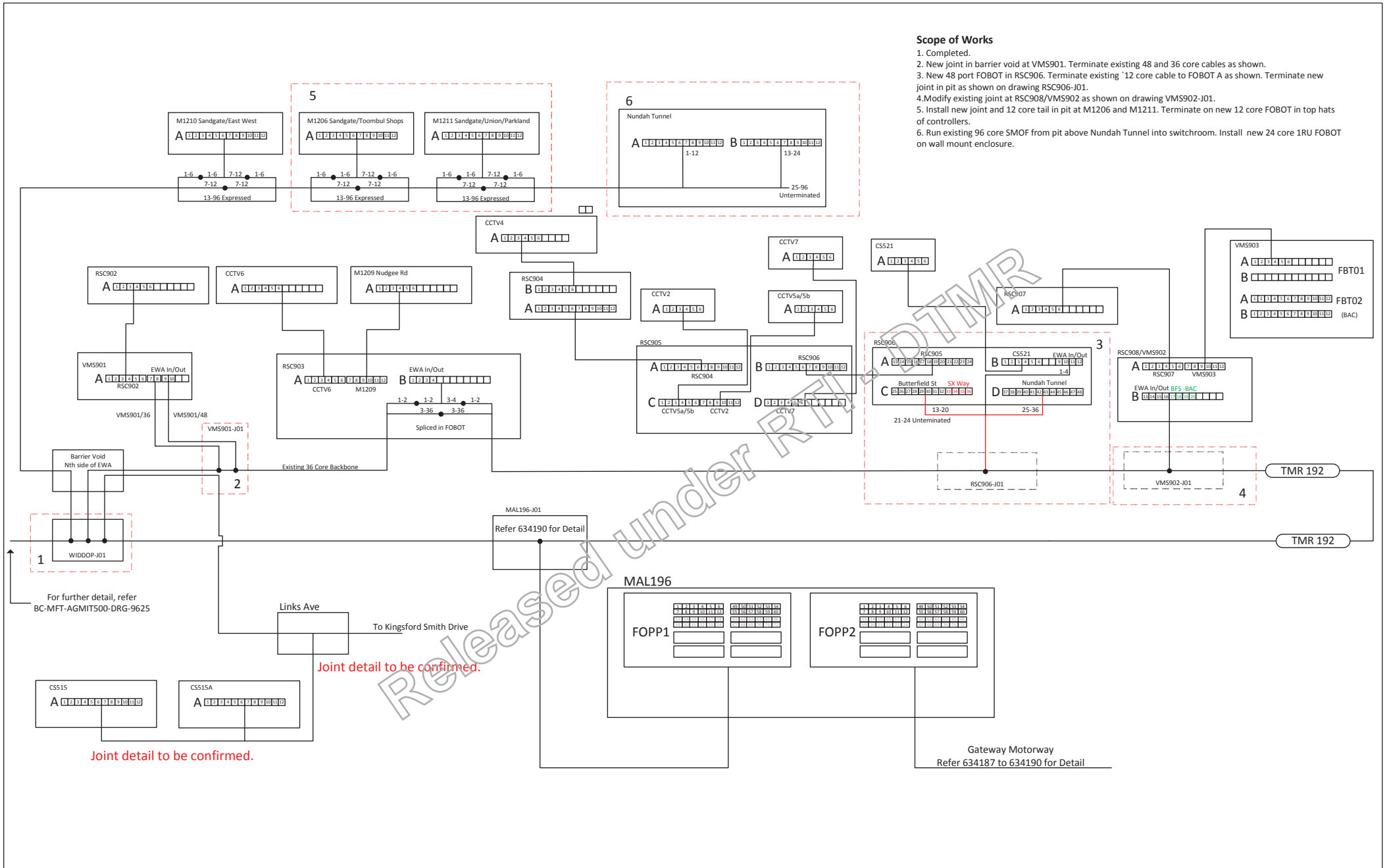
Gympie Road ITS - PIT AND FIBRE SCOPE REPORT

PIT NUMBER:						DATE	13 th August 2019	
PIT LOCATION:								
PIT OWNER	Distance to next Pit		Conduit Full		Conduit Depth		Blockage A	Blockage B
PIT TYPE								
PIT CONDITION:	EXCELLENT		GOOD		FAIR		POOR	REPLACE
COMMENTS:								

Photo 1	Photo 2
LOCATION	OVERHEAD
Photo 3	Photo 4
ENTRY from pit #	EXIT to pit #

Scope of Works

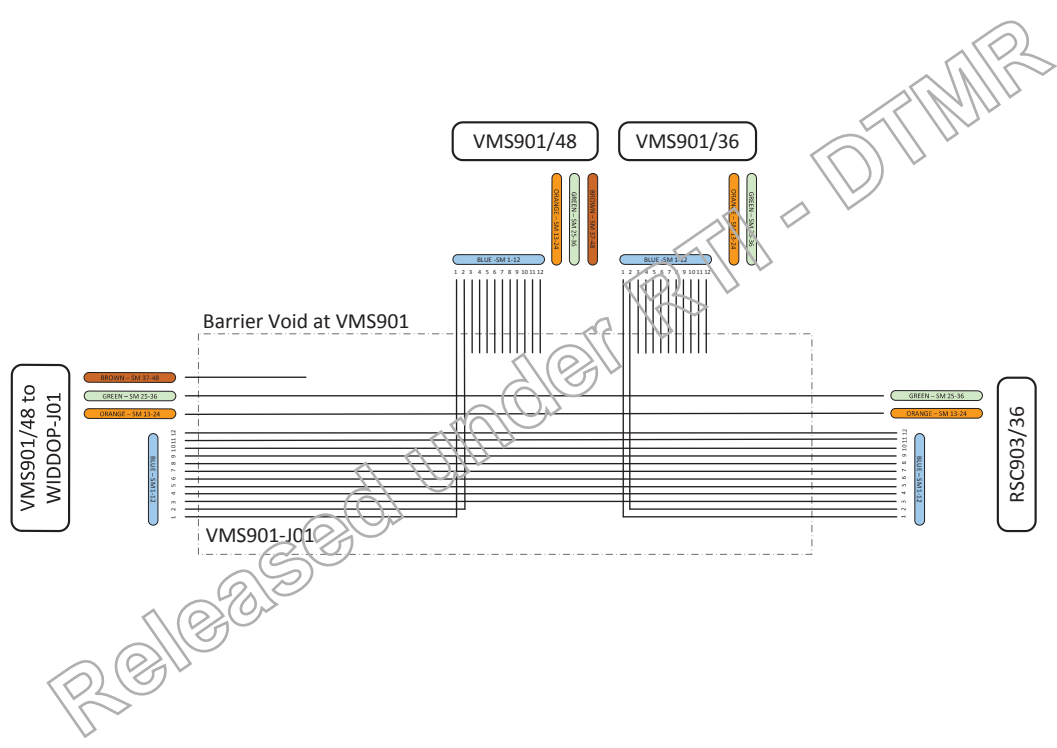
1. Completed.
2. New joint in barrier void at VMS901. Terminate existing 48 and 36 core cables as shown.
3. New 48 port FOBOT in RSC906. Terminate existing 12 core cable to FOBOT A as shown. Terminate new joint in pit as shown on drawing RSC906-J01.
4. Modify existing joint at RSC908/VMS902 as shown on drawing VMS902-J01.
5. Install new joint and 12 core tail in pit at M1206 and M1211. Terminate on new 12 core FOBOT in top hats of controllers.
6. Run existing 96 core SMOF from pit above Nundah Tunnel into switchroom. Install new 24 core 1RU FOBOT on wall mount enclosure.



Joint detail to be confirmed.

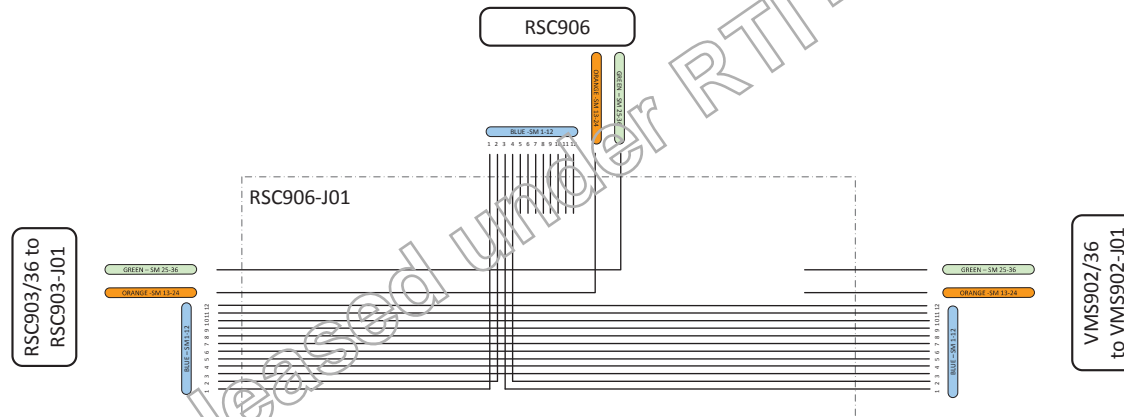
Joint detail to be confirmed.

Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale		Transport & Main Roads			Site No.		Queensland Government		
						WGS84				Metropolitan District			East West Arterial Network Cable Topology		Department of Transport & Main Roads		
B		Issued for Construction	CO	30/07/2018	Auxiliary Drawing #:					Reference Points			Drawn by	Drawing Checked	Design Verified	Design Review	Contract No.
A		Original Issue A3				Classification		Security-in-Confidence		Dimensions shown in millimetres except where shown otherwise			Colin Otto 10/03/2017				Drawing No.
Visio Files																	Series No.
																	1 of 1

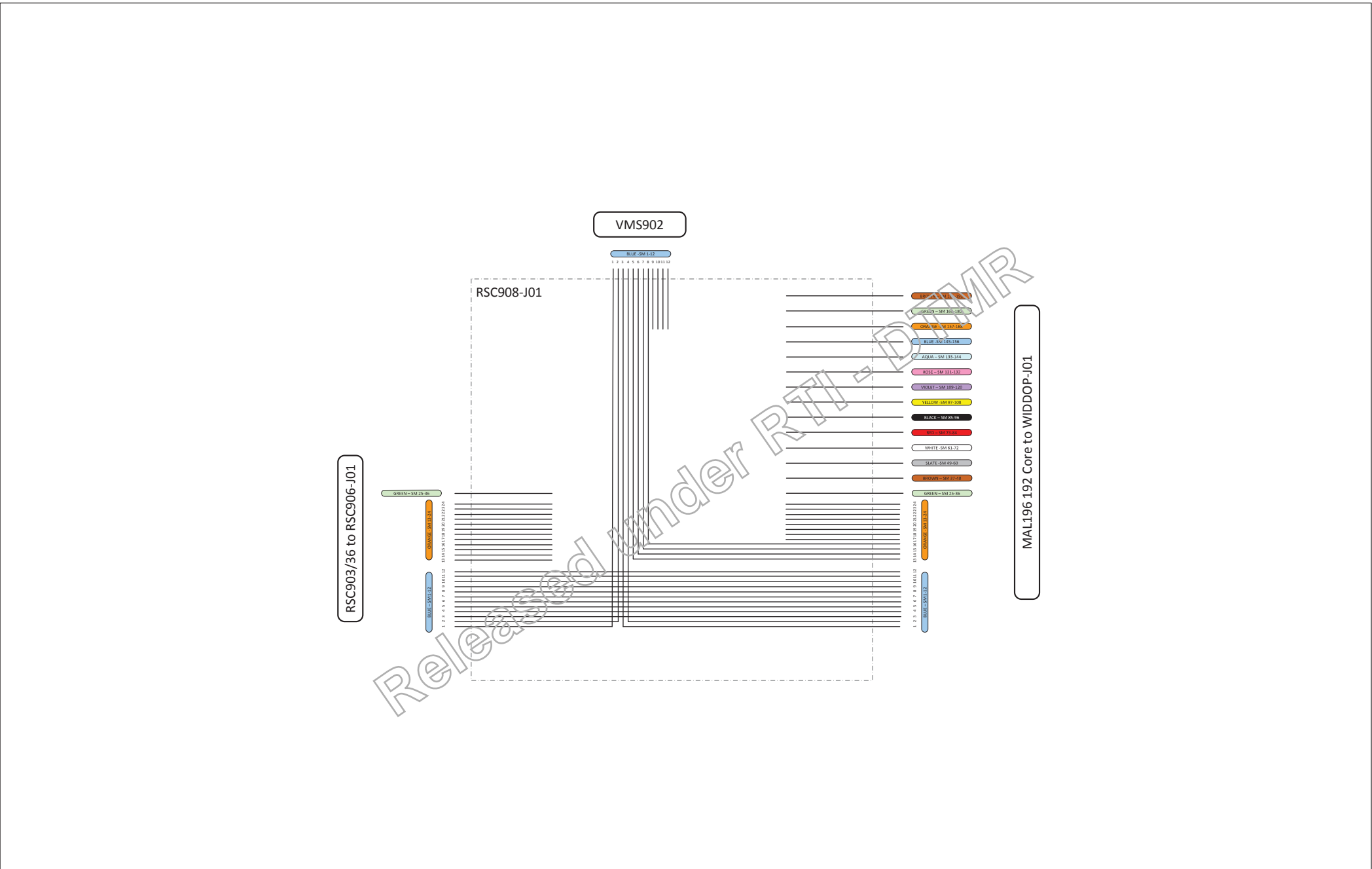


Revision		Certified	Date	Microfilmed	Associated Job #:	Survey Data		Not to Scale	Transport & Main Roads				VMS901-J01		Site No.	Queensland Government Department of Transport & Main Roads	
						Horiz. Datum	WGS84		Metropolitan District				Splicing Detail			Contract No. Drawing No. Series No.	
B	Issued for Construction	CO	30/07/2018		Auxiliary Drawing #:	Survey Books		Reference Points				Drawn by	Drawing Checked	Design Verified	Design Review	Engineering Certification (RPEG)	A
A	Original Issue A3					Classification	Security-in-Confidence	Dimensions shown in millimetres except where shown otherwise				Colin Otto 15/05/2018			C Otto 12762	1 of 1	
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Revision	Certified	Date	Microfilmed	Associated Job #:	Survey Data	Not to Scale	Transport & Main Roads Metropolitan District	RSC906-J01 Joint Splicing Detail	Site No.	 Queensland Government Department of Transport & Main Roads																		
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