

Reference Marks

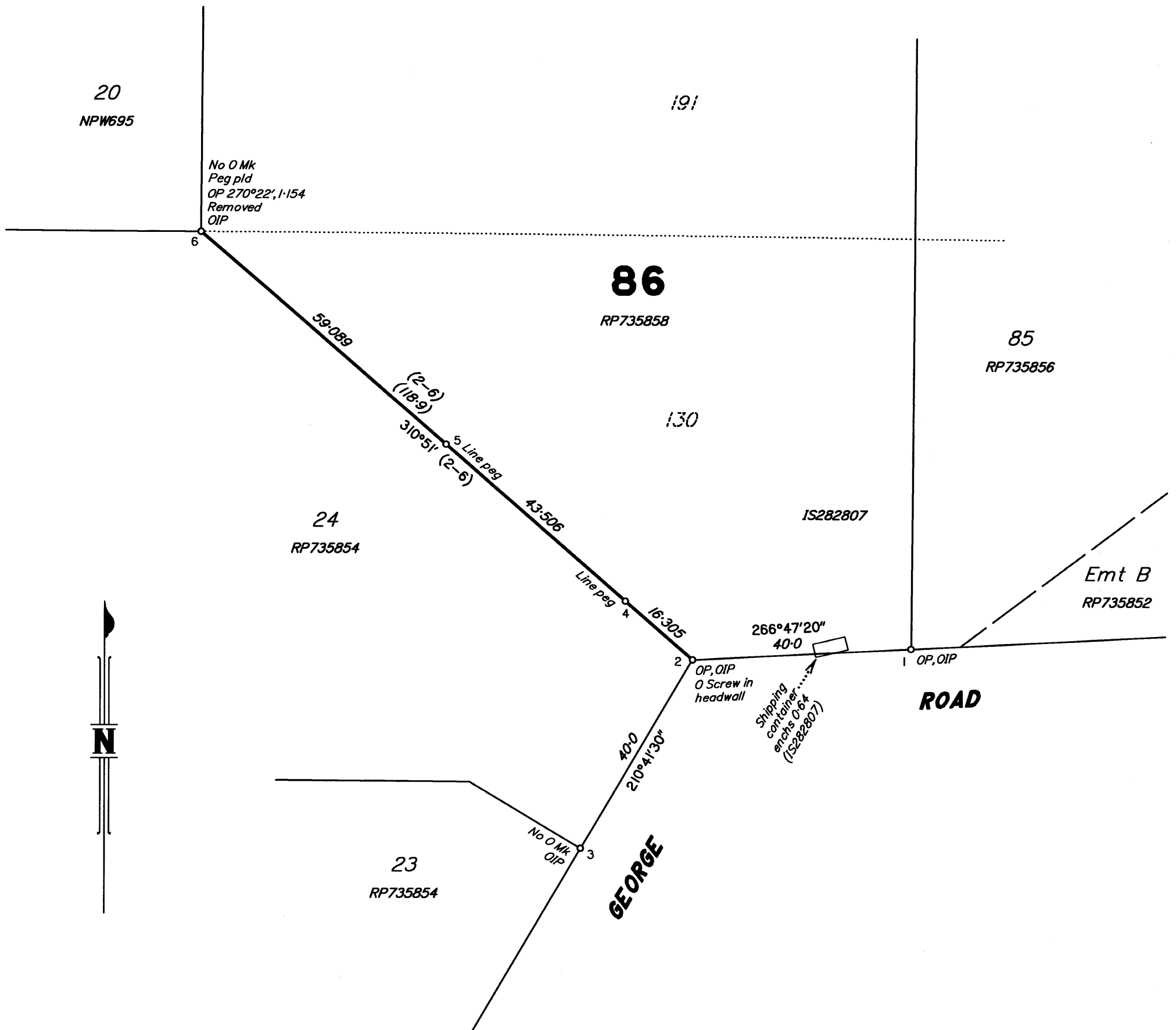
Stn	To	Origin	Bearing	Dist	
1	OIP	IS282807	262°37'	1.149	
2	OIP	IS282807	179°44'	1.883	
2	O Screw in headwall	IS282807	143°19'10"	55.489	
3	OIP	RP735854	210°41'30"	8.384	
5	Pin		30°15'	1.964	
6	Pin		178°59'	1.07	
6	OIP	RP735858	229°29'	1.528	Ntd & chckd

SURVEY REPORT

The purpose of this survey was to reinstate and mark the common boundary between Lot 86 on RP735858 and Lot 24 on RP735854.

Original marks we observed at Stations 1-3 & 6.

The original marks (OP & OIP) at Station 6 were located in the original location as shown on RP735858 prior to the plan being amended. It appears that the plan has been amended and the peg and pin located at this corner have not been moved to reflect the new dimensions. Therefore the OP located off Station 6 has been removed and a peg placed in the correct location.



TERRAMODUS SURVEYING PTY LTD ACN 125 086 973 hereby certify that the land comprised in this plan was surveyed by the corporation, by Eddy Luigi Picco, Cadastral Surveyor, for whose work the corporation accepts responsibility, and that the plan is accurate, that the said survey was performed in accordance with the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the said survey was completed on 16.10.2020.

Picco
Eddy Luigi Picco
Director and
Cadastral Surveyor

Date 21-10-2020

0 40|m 80|m 120|m

Identification Survey of part of Lot 86
on RP735858

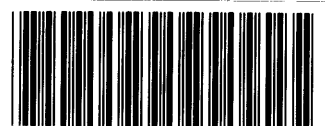
LOCAL Douglas
AUTH Shire Council LOCALITY Forest Creek

Scale 1:800 Parish Alexandra County Solander

Meridian: Of RP735858 Original Portions 130 & 191 Job No 1517

TerraModus
SURVEYING

PO Box 6594 Cairns Qld 4870
Ph: 0413 580 146
admin@terramodus.com.au



IS282824

Reference Marks

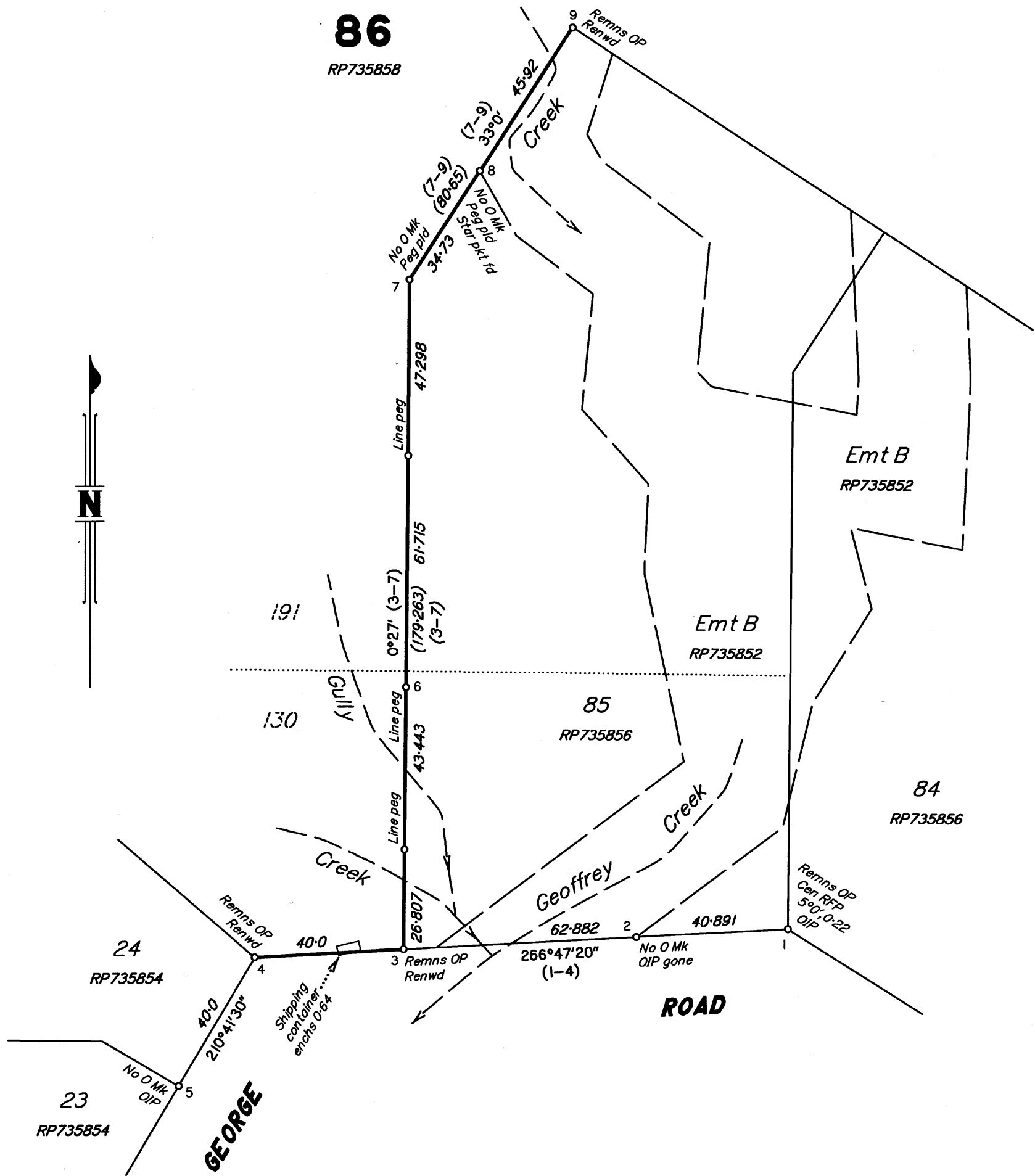
Stn	To	Origin	Bearing	Dist
1	OIP	RP735856	121°48'	1-0
1	Screw in headwall		212°49'25"	56-708
1	Bolt in NE cor bridge		222°50'05"	69-177
2	OIP gone	RP735852	266°47'	1-0
3	Pin		262°37'	1-149
4	Pin		179°44'	1-883
4	Screw in headwall		143°19'10"	55-489
5	OIP	RP735854	210°41'30"	8-384
6	Pin		273°31'	1-102
7	Pin		1°06'	2-404
8	Pin		338°53'	1-01
8	Star pkt fd		57°41'	13-529
9	Pin		35°32'	1-036

SURVEY REPORT

The purpose of this survey was to reinstate and mark part of Lot 86 on RP735858.

Original marks we observed at Stations 1, 3, 4, 5 and 9. Deed dimensions were observed on all surveyed lines.

The location of creeks and gullies shown on this plan are approximate only.



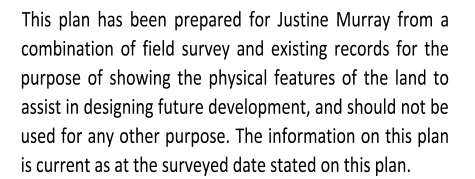
TERRAMODUS SURVEYING PTY LTD ACN 125 086 973 hereby certify that the land comprised in this plan was surveyed by the corporation, by Eddy Luigi Picco, Cadastral Surveyor, for whose work the corporation accepts responsibility, and that the plan is accurate, that the said survey was performed in accordance with the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the said survey was completed on 28-05-2020.

Eddy Luigi Picco
Director and
Cadastral Surveyor

Date 15-06-2020

0				62-5 m				125 m				187-5 m			
Identification Survey of part of Lot 86															
on RP735858															
LOCAL Douglas				AUTH Shire Council				LOCALITY Forest Creek							
Scale 1:1250				Parish Alexandra				County Solander							
Meridian: Of RP735856				Original Portions 130 & 191				Job No 1517							
<div><div>TerraModus</div><div>SURVEYING</div><div>PO Box 6594 Cairns Qld 4870</div><div>Ph: 0413 580 146</div><div>admin@terramodus.com.au</div></div> <div></div> <div>IS282807</div>															

IMPORTANT NOTE



Services shown hereon were located where possible by field survey completed on 16-10-2020. If not able to be located, known services have been shown from the records of the relevant authorities or service providers where available and have been noted accordingly on this plan. All services shown from records only will need verification prior to, or during work on site.

- Verification of all services plotted from records only; and
- Possible location of any services altered since this survey was completed or any new services installed either on or adjacent to the site.

- No responsibility can be accepted by TerraModus Surveying Pty Ltd for any damage caused to any underground service or any loss or injury so suffered if enquiry and verification have not been completed in accordance with this note.


- This note is an integral part of this plan/data. Reproduction of this plan or any part of it without this note being included in full will render the information shown on such reproduction invalid and not suitable for use.

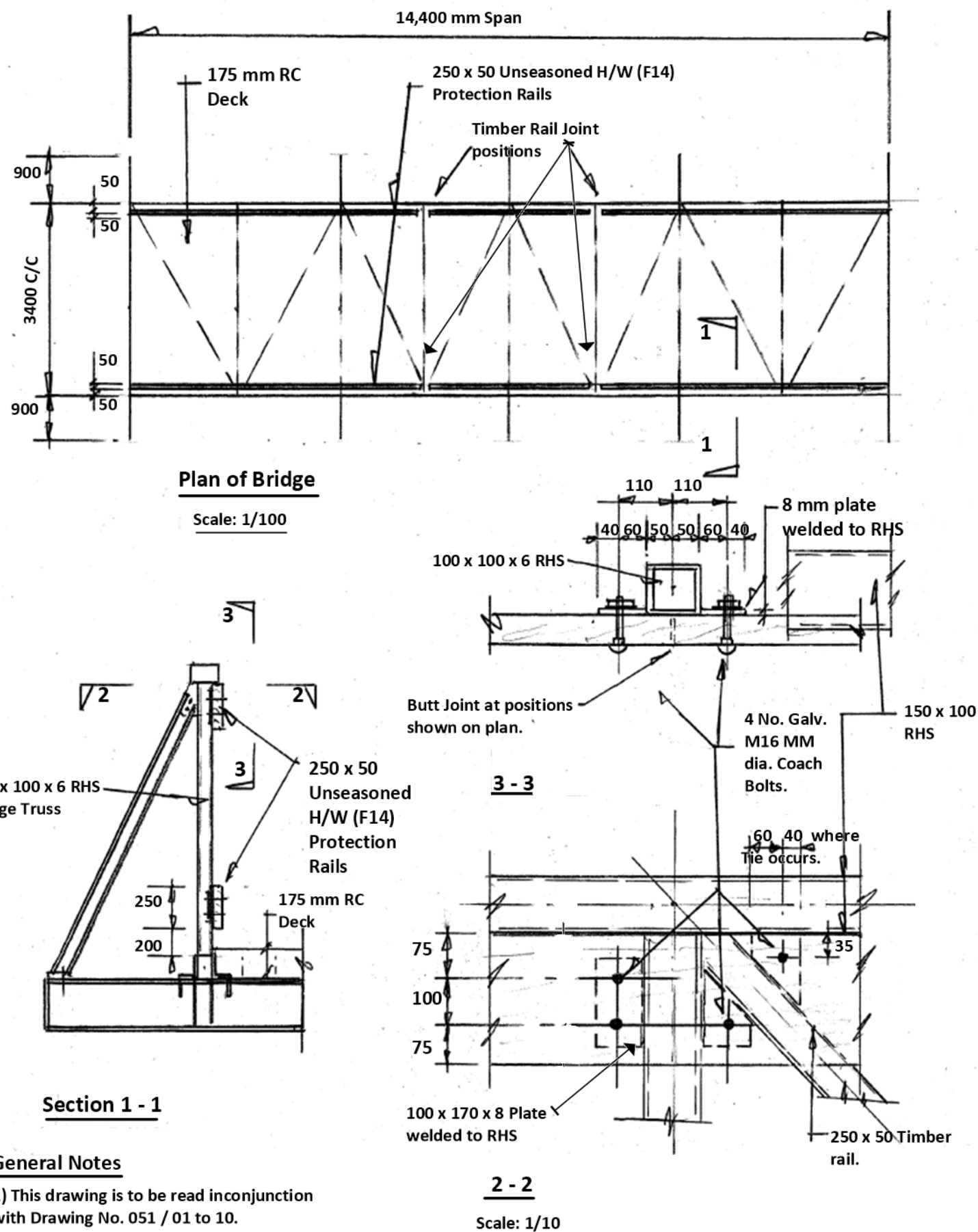


TOP OF BANK _____

TOE OF BANK _____

SCALE 1:200 @ A3

<div>NOTES</div> <div>Level Datum: <i>ARBITRARY</i></div> <div>Origin of Levels: <i>STN 1 (OIP)</i> <i>5717.725 E</i> <i>9807.188 N</i> <i>RL 100.000m</i></div> <div>Major Contours <i>99.0</i></div> <div>Minor Contours _____</div> <div>Contours Index: 0.5m</div> <div>Meridian: <i>Vide RP735858</i></div> <div>CATEGORY C OR R AREA CONTAINING OF CONCERN REGIONAL ECOSYSTEMS AND ESSENTIAL HABITAT MAP AREA COMPILED FROM QUEENSLAND GLOBE 21-10-2020.</div>	<div>Coordinate Datum: <i>ARBITRARY</i></div> <div>Origin of Coordinates: <i>STN 1 (OIP)</i> <i>5717.725 E</i> <i>9807.188 N</i></div>	<div>J. MURRAY</div>	<div>SURVEYED ELP 16-10-2020</div> <div>DRAWN ELP 20-10-2020</div> <div>SHEET SIZE A3</div> <div>SHEET OF SHEETS 1</div> <div>FIELD BK. No 59</div> <div>DIGITAL FILE REFERENCE 151702.dwg</div>	<div>LOCAL AUTHORITY DOUGLAS SHIRE COUNCIL</div> <div>LOCALITY FOREST CREEK</div> <div>CLIENT REFERENCE</div> <div>TITLE REF 21134005</div> <div>SCALE 1:200</div>	<div>TerraModus SURVEYING</div> <div>PO Box 6594 Cairns qld 4870</div> <div>Ph: 0413580146 admin@terramodus.com.au</div> <div>AMENDED</div> <div>ISSUE A</div> <div>DRAWING NO. 1517-01</div>						
	<table><tr><td>A</td><td>21/10/20</td><td>Original</td><td>ELP</td></tr><tr><td>Rev. No.</td><td>Date</td><td>Revision</td><td>By</td></tr></table>	A	21/10/20	Original	ELP	Rev. No.	Date	Revision	By	<div>PROJECT CONTOUR AND DETAIL SURVEY PART OF LOT 86 ON RP735858 GEORGE ROAD FOREST CREEK</div>	<div>SHEET OF SHEETS 1</div>
A	21/10/20	Original	ELP								
Rev. No.	Date	Revision	By								



Steelwork Transport to site and steelwork Erection / Installation Notes: -

1.0 Transport: -

- 1.1. It is envisaged that the steelwork will be Fabricated in Cairns and transported by a flatbed truck (i.e. 12 Ton with an 8.5 m tray size or similar).
- 1.2. A flatbed truck (FBT) of this size is envisaged, based on the route from Cairns to the Daintree and more importantly from the Daintree river Ferry crossing to the site.
- 1.3. For the 14.4 m single span bridge truss, this means having to have a field splice in the Truss – which equates to two halves @ 7.2m = 14.4 m. And a bolted field splice is detailed on the drawings in the centre of the truss span for this purpose.
- 1.4. Note that the road to the site from the Daintree river Ferry crossing to the site is fully sealed but is narrow in places, with an awkward turn (but manageable by 12 Ton FBT with an 8.5 m tray) into the site from the road.
- 1.5. However, if the whole Truss can be fabricated in one 14.4 M piece and transported to site, then the chord splices can be eliminated. Or if a greater length than 8.5m can be transported (say 8.8 m or 10.4 m – this would allow the splice to be moved away from where it will be subjected to the maximum forces (& the splice details reduced accordingly).

2.0 Erection / installation of steelwork.

- 2.1 During erection of the steelwork, if practical to undertake, a prepared Field 'Full Penetration Butt Weld' (FPBW) can be used instead of the Bolted splice, provided the following is undertaken: -
 - 2.1.1 The weld quality is equal to, or similar to, that obtained in the shop.
 - 2.1.2 The site paintwork is in accordance with clause S11, S12 & S13 as noted on Drawing No. 051 / 9, including primer and final coat DFT of 225 UM.
 - 2.1.3 Paint colour to match exactly to the truss paint colour. (Battleship Gray or as selected by Client).

3.0 General Notes.

- 3.1 The steel fabricator shall measure on site, the concrete footing anchor bolts positions, prior to the final bridge truss' fabrication.
- 3.2 There is an existing disused corroded foot bridge, (that can handle some light foot traffic) that needs to be demolished after the truss erection, but before the Bridge concrete deck and it's supporting steel beams are installed, that can be utilised (with Care) for access back and forth across the Ravine to assist during the steel trusses erection / installation. Note the existing 1.3m wide foot bridge is positioned between the two new truss' space 3.4 m apart. The Steel erector to advise the engineer if he intends to utilise the existing foot bridge prior to steel erection.

4.0 Cranage & Truss erection methodology.

- 4.1 The steel Erector is to advise the Engineer, the intended steel truss erection methodology and anticipated cranage to be used (such as 25 Ton Mobile), prior to erection.

Timber Protection Rails - Detail R

L Dave O'Toole MIEAust CPEng RPEQ NER
Consulting Structural Engineer

19 Canbanora Place, Mooroolbool, Cairns Qld 4870
Mobile Phone: 0400 252 715
Email: otoole.eng@bigpond.com

I certify that the structural details shown on this drawing are in accordance with all relevant Australian standards
Refer to Form 15.
Signed: *L O'Toole*

A	01/11/2020	Issued for DA Approval.
Revision Reference	Date	Description

Steelwork Erection/ installation & Transport Notes

Project: Vehicle Bridge at 86 George Rd, Forest Creek.
Description: Steelwork Erection Notes and Timber
Drawing No: 051 / 11 Rev A
Date: 02 / 10 / 2020