

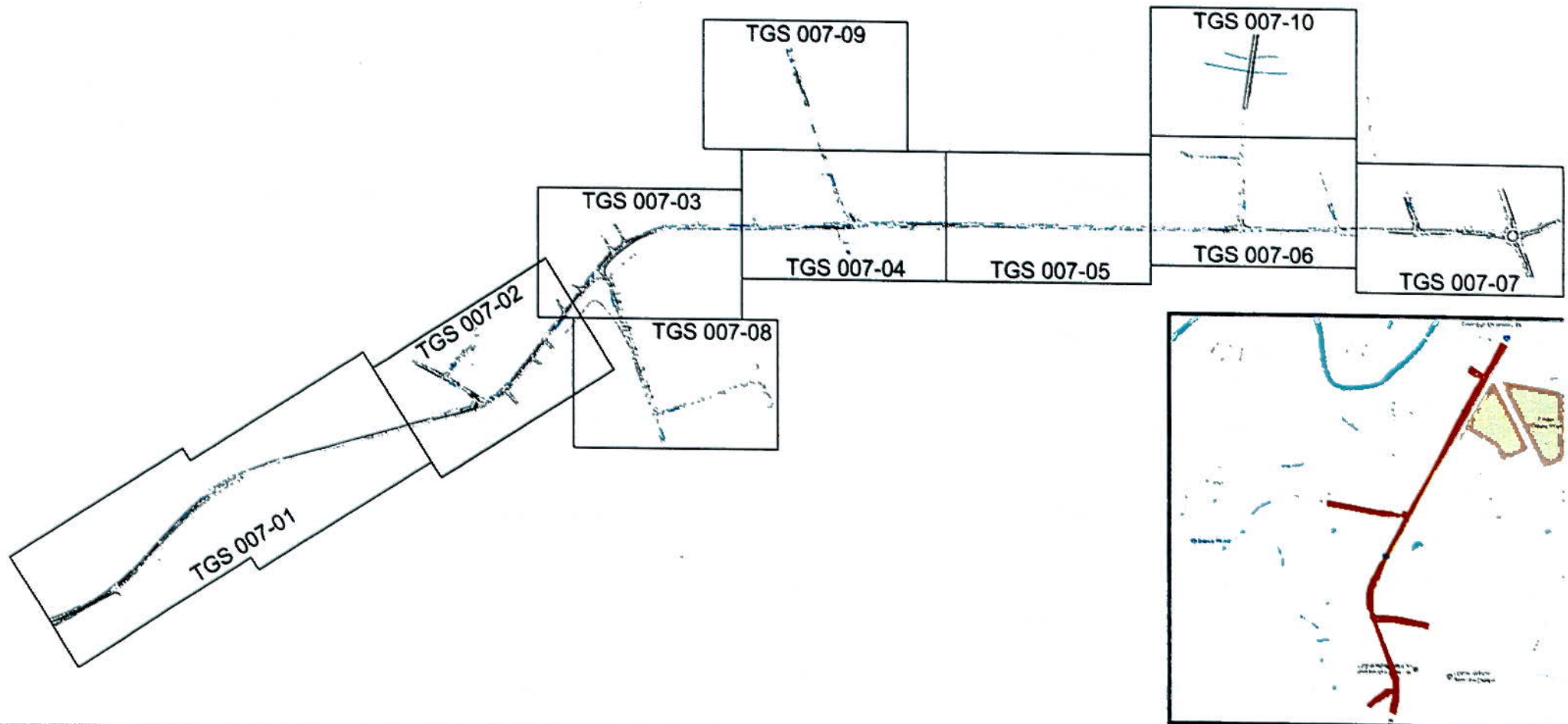
WATERFORD-TAMBORINE ROAD (207)

RPEQ REQUIRED

☐ YES ☒ NO

TRAFFIC GUIDANCE SCHEME

TGS 007 - LONG TERM SIGNAGE ARRANGEMENT (Stage 1 Switch)


SCHRAMM GROUP

88 NORTHLINK PLACE, WILLOWBUSH, QLD 4214

Tel: 07 3628 4391

TMR REGISTRATION NUMBER: 0218 SHEET 01 OF 13

THIS PLAN IS NOT TO SCALE

 TGS REF No: **TGS 007: COVER**

Road Name:	Map Reference:	Travelled Path:
Waterford-Tamborine Road	USD Map 303: F4	Post
Location of Works:	Tenure:	Operation:
Albert Street - Camp Cable Road	Short Term	Shoulder Closure
Suburb:	Road Type:	Speed Limit:
Logan Village	Two Way Road	80km (80km Work Zone)

TGS	NAME	DATE	SIGNATURE	CERTIFICATION	TYPE	CARD NO.
INITIALLY DRAWN BY	Simon Tanner	05/12/2017		DTMR TMD	OPEN	301
CERTIFIED BY						



Rev #	Description	Requested By	Date	Issued By
E	Added Detour sheet for H&M Rd Closure	Ben Lyons	18/03/2018	SJT
F	Modified detour route and signage v2	Ben Lyons	12/04/2018	SJT
G	Hand drawn markup drawn by Doval	Ben Lyons	12/04/2018	
H	Modified signage as per Doval request v2	Ben Lyons	01/05/2018	SJT
I	Modified Stockpiles Rd alignment & Ararat Ave vlp wire signage	Ben Lyons	30/05/2018	SJT

CLIENT DETAILS

Client Name: Doval Constructions
 Client Contact: David Reid / Ben Lyons
 Client Contact Number: 0431 271 405 / 0435 941 539
 DTMR Contract No.: SCHD-3424
 DTMR Job No.: 240/2075

SITE INFORMATION

Location of Works: Waterford-Tamborine Road (Albert Street to Camp Cable Road)
 Suburb: Logan Village

Hours of Operation: 24hrs - usual working hours 7am to 6pm

Proposed Commencement of Works: January 2018
 Estimated Completion of Works: August 2018

SCOPE OF WORKS

This Traffic Guidance Scheme (TGS) has been developed to allow Doval Constructions to conduct Waterford-Tamborine Road upgrade works between Camp Cable Road and Albert Street at Logan Village.

These works will involve but will not be limited to:

- Long Term Signage Arrangement with Shoulder Closures
- General Construction works
- Any Project Associated work activity

A desktop risk assessment has been undertaken by Schramm Group Pty Ltd in developing this TGS. However, when implementing this TGS on site, the site supervisor &/or Nominated Traffic Officer (NTO) should undertake a site specific assessment at each location to ensure traffic control device placement is appropriate for site conditions, particularly with respect to sight distances to oncoming traffic.

TRAFFIC MANAGEMENT METHOD

Travelled Path: Past

No. of Traffic Controller: N/A

No. of Traffic Control Vehicles: N/A

Type of Closure: Shoulder Closure

Speed Restrictions: Reduce to 60kph

SIGNAGE & DEVICES INSTALLATION NOTES:

Unless stated otherwise on the Traffic Guidance Schemes (TGS), the tolerances on the positioning of signs detailed in the plans is minimum 10% less than and maximum 25% more than the distances or lengths stated.

Unless noted otherwise in the drawings, all signage is to be positioned clear of travel path behind the kerb and visible to oncoming traffic and not obstructing pedestrians, otherwise on the pavement as near as practicable to the kerb without the sign becoming obscured and without obstructing moving traffic.

Condition of signs and devices should be examined before installation to ensure that they are in good condition and their performance is not impaired.

Signs and devices should be positioned and erected so that:

- they are properly displayed and securely mounted (see Clause 3.3);
 - they are within the line of sight of the intended road user;
 - they cannot be obscured from view (e.g. by vegetation or parked cars);
 - they do not obscure other devices from the line of sight of the intended road user;
 - they do not become a possible hazard to workers, pedestrians or vehicles; and
 - they do not deflect traffic into an undesirable path.
- (g) they do not restrict sight distance for drivers entering from side roads or streets, or private driveways; and
 (h) they are not installed using supports that could be a hazard if struck by a vehicle.

Signs mounted on posts on kerbed roads in built up areas used for long-term works should generally be located and erected as follows:

- minimum 2.2m above the level of kerb or footpath to the underside of the sign;
- on a traffic island or median, a mounting height of 1.5m may be more appropriate.

Signs should face towards approaching traffic approximately at right angles to the line of sight from the driver to the sign. At curved alignments, the sign should be placed approximately at right angles to the line of sight of a motorist 50m in advance of the sign.

Delineating devices (e.g. traffic cones, bollards, post mounted delineators) should generally be placed 1m clear of the travelled path where practicable. However, traffic cones and bollards may also be used to define the edge of the travelled path or to separate opposing traffic.

PEDESTRIANS & CYCLISTS

Pedestrians & Cyclists for the duration of the works will be monitored as required. Appropriate pedestrian warning and directional signage will be erected and monitored throughout the duration of the works as required.

Where Trip Hazards exist or are identified 'PEDESTRIANS WATCH YOUR STEP' (T8-1) Sign shall be installed where appropriate space allows.

Pedestrian access through site will be closed. No pedestrian access signs shall be displayed at the extent of the works.

RECORD KEEPING

Supervisory personnel shall keep daily records at a regular time period throughout the shift of the signage arrangement or Traffic Guidance Scheme (TGS) and should be kept in a diary or in a work sheet. Special attention to recording the installation, alteration and removal of all regulatory signs and devices and weather conditions.

INCIDENT MANAGEMENT

The contractor is to determine the appropriate procedure for incident management but should not be limited to:

- call for assistance if incident requires
- notify the work site supervisor immediately of any incident
- maintain effective traffic control (ie. possible relocation of TC station clear of any further danger)
- record sufficient notes of the incident, including observations, in order to complete an incident report.

GENERAL NOTES

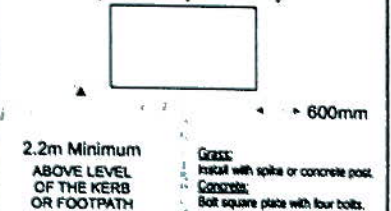
- These drawings are to be read in conjunction with the associated Risk Assessment and used in conjunction with the Traffic Management Plan produced by the contractor.
- If these drawings have been drawn to scale the scale is as shown in the title block for each sheet. In all cases the dimensions detailed on the drawings only are to be used.
- These drawings have been prepared from information collected on site at the time and from information provided by the client. Some existing road features and/or conditions may have change prior to or during the establishment of this TGS. If this occurs the Contractor is to notify the Traffic Management company or Traffic Management Design person responsible if any alterations are required.
- Any variations made to the treatments shown in this TGS shall only be made by a Traffic Management Design (TMD) competent person, with the exception of general note 5, and all variations are to be noted on the TGS.
- This TGS is only to be installed by competent personnel, adequately trained and experienced to install Traffic Management Devices (Traffic Management Implementation). A TMD competent person can move signs within tolerances including away from intersections or median openings or similar and modify the TGS onsite in response to an incident or unplanned event or in response to long queue of traffic as per MUTCD Clause 4.7.8. Any changes made by a TMD onsite are to be noted on the TGS.
- Underground services have not been located or identified by Schramm Group for this scheme. Any service which may be shown on the plans is not to be relied upon by the Contractor and the Contractor is solely responsible for any damage incurred to existing services whether they appear on these plans or not.
- Prior to the commencement of any excavation works that may be required for the implementation of this TGS the Contractor shall confirm the location of any possible underground conflicts and if necessary seek alternate signage locations from Schramm Group to avoid the conflicts.
- The extent of any work areas shown on this plan are diagrammatic only unless specific dimensions are shown and no workers, materials, plant, vehicles or machinery are to be within 1.2m of an open traffic lane unless a 40kph temporary speed limit is implemented or as shown on this TGS.
- The Contractor is responsible for negotiating the use of existing driveways for construction access with the property owners.
- Where Traffic Controllers are required, ensure they have a clear escape path to a non-traffic (closed) section of the roadway, shoulder, footpath or median during works operation at all times.
- All signage shown on this TGS is not to conflict with any existing long term signage arrangements. If this occurs then the contractor is to notify Schramm Group Pty Ltd if any alterations are required.

**SITE SPECIFIC NOTES**

- Recommended maximum traffic bollard spacing for Outer edge of traffic lanes for pre-roadwork speeds:
 <50kph = 4m; 60 to 70kph = 18m; >70kph = 24m.
- Bollards and barrier boards are to be installed where required for shoulder closures and works close to edge of road.
- VMS boards may be relocated to other locations not shown on TGS with the approval of the Administrator.
- Bollards at close delineation with maximum spacing of 4m.
- Minimum Lane Width of 3.0m with 0.5 clearance to bollards.

LEGEND

- Traffic Controller
- Traffic Control Vehicle
(with Vehicle Mounted Arrow Board)
- Attenuator Vehicle (TMA)
- Police Officer
- Police Vehicle
- Temporary Hazard Marker (TS-002)
- Temporary Bollards
(Min 750mm High & 100mm Dia.)
- Traffic Cones
(450-500mm used in built-up areas not exceeding 70kph
>700mm used in 70kph zones and above)
- Work Area
(Site Specific within these areas of works)
- Area of lane closure closed to general traffic
(Site Specific within these areas of works)
- Refer to SITE SPECIFIC NOTE number
- Bus Stop
- General Traffic Direction
- Pedestrian Diversion Route
- Site Vehicle Movements
- Safety Barrier System
- Safety Barrier End Treatment

**Long Term Sign Install (Typical)
(Built Up Areas)**

Please note: Contractor shall obtain all appropriate approvals prior to installation of any sign to ensure no conflicts with any existing underground services. (i.e. Dial Before You Dig)

SCHRAMM GROUP

58 NORTHLINE PLACE, VEEHRA, QLD 4211
 Tel: 07 3624 0261

TMR REGISTRATION NUMBER: 5216 SHEET 02 OF 13

THIS PLAN IS NOT TO SCALE

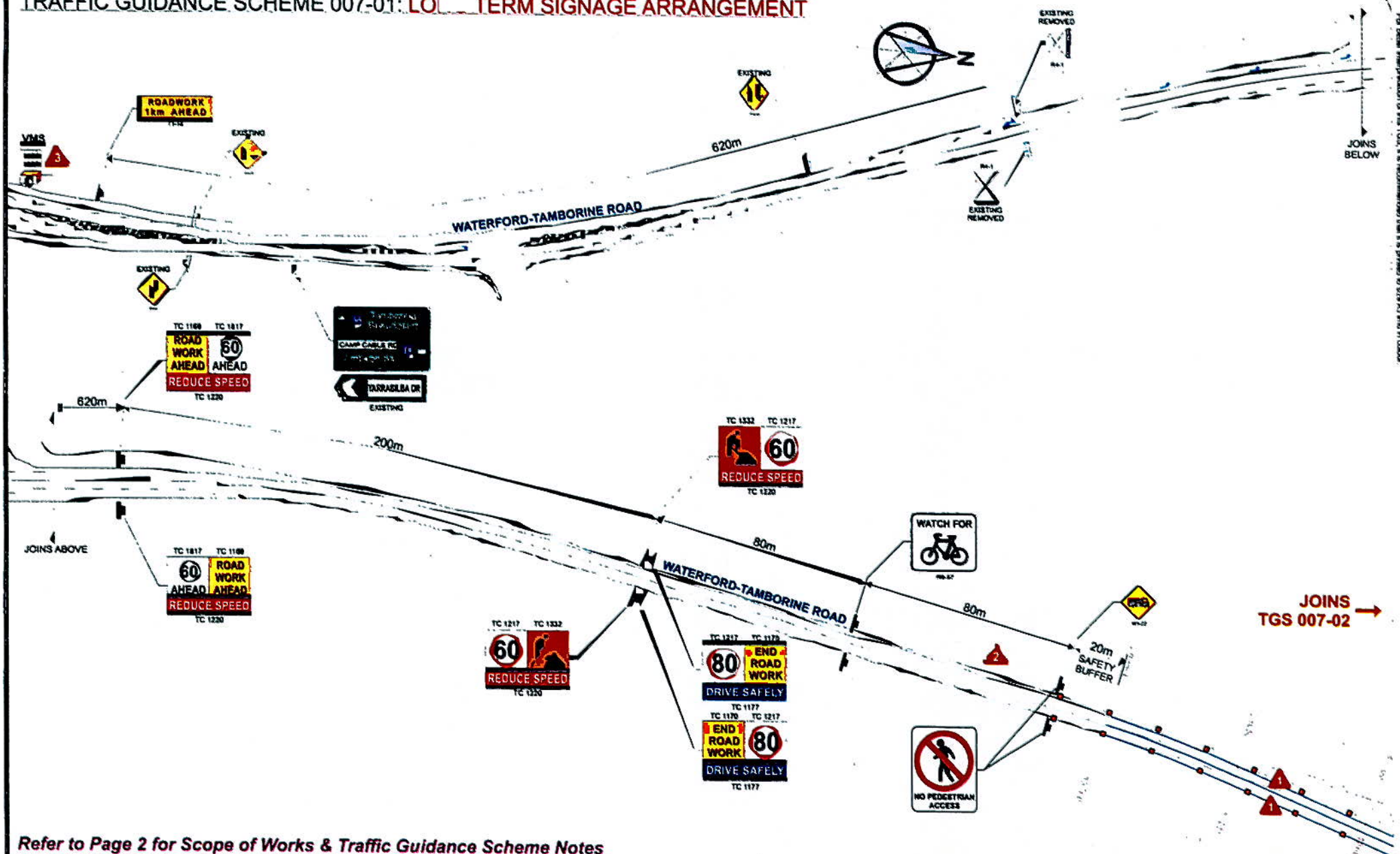
TGS REF No: TGS 007: NOTES

Road Name:	Map Reference:	Travelled Path:
Waterford-Tamborine Road	USD Map 333 : F4	Past
Location of Works:	Tenure:	Operation:
Albert Street - Camp Cable Road	Short Term	Shoulder Closure
Suburb:	Road Type:	Speed Limit:
Logan Village	Two Way Road	80kph (80kph Work Zone)

Rev #	Description	Requested By	Date	Issued By
E	Added Detail sheet for Hinge Rd Closure	Ben Lyons	19/03/2018	SJT
F	Modified detail sheet and signage v2	Ben Lyons	12/04/2018	SJT
G	Hand drawn markup drawn by Doval	Ben Lyons	10/04/2018	SJT
H	Modified signage as per Doval roadcut v2	Ben Lyons	01/05/2018	SJT
I	Modified Brookleigh Rd alignment & Ararat Ave site line signage	Ben Lyons	30/03/2018	SJT



TRAFFIC GUIDANCE SCHEME 007-01: **LO** TERM SIGNAGE ARRANGEMENT



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

DOVAL TMR REGISTRATION NUMBER: 0219 SHEET 03 OF 13 SCH 17:3013 THIS PLAN IS NOT TO SCALE TGS REF No: SCH 17:3013		Road Name: Waterford-Tamborine Road Location of Works: Albert Street - Camp Cable Road Suburb: Logan Village	Map Reference: LMS Map 333 : F4 Town: Operation: Shoulder Closure Road Type: Two Way Road	Travelled Path: Past Speed Limit: 80km (80km Work Zone)	TGS NAME DATE 09/12/2017 SIGNATURE CERTIFICATION DTMR TMO TYPE OPEN CARD NO. 501
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Rev #	Description	Requested By	Date	Issued By
E	Added Detour sheet for Note Rd Closure	Ben Lyons	19/03/2018	SJT
F	Modified detour route and signage v2	Ben Lyons	12/04/2018	SJT
G	Hand drawn version drawn by Doval	Ben Lyons	10/04/2018	
H	Modified signage as per Doval request v2	Ben Lyons	01/05/2018	SJT
I	Modified Roadblock Rd alignment & Arzac Ave slip lane signage	Ben Lyons	30/05/2018	SJT

Schwartzman-Ginsburg, Pincus, Lutz



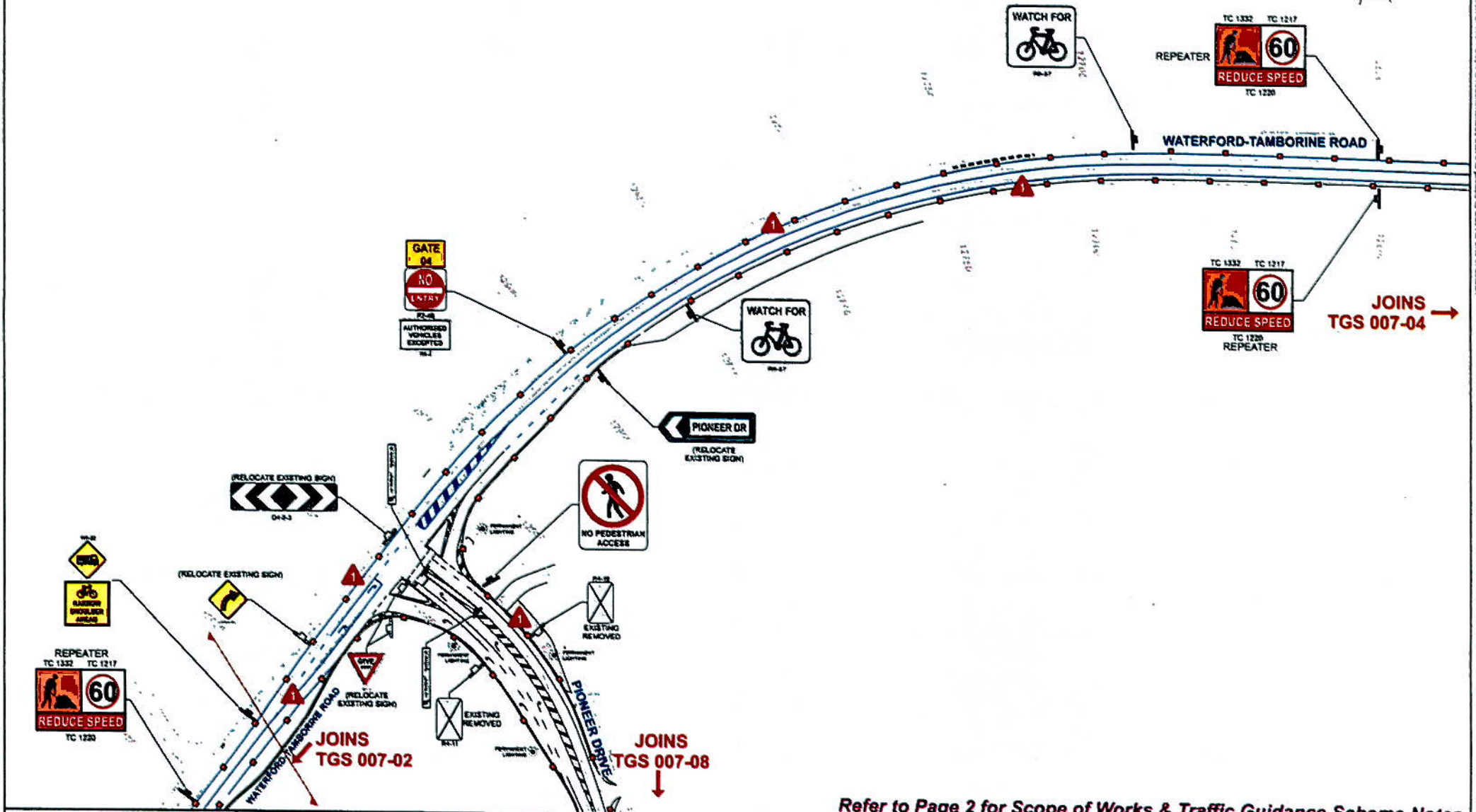

 25 NORTH WYCK PLACE, VIRGINIA, QLD 4704 PH: 17 200 4704
 TWR REGISTRATION NUMBER: 0210 SHEET 04 OF 13
 THIS PLAN IS NOT TO SCALE
 TGS REF No: **SCH 17:3014**



Rev #	Description	Requested By	Date	Issued By
E	Added Detour sheet for Hotz Rd Closure	Ben Lyons	18/03/2018	SJT
F	Modified detour route and signage v2	Ben Lyons	12/04/2018	SJT
Q	Hand drawn map-up drawn by Dowal	Ben Lyons	10/04/2018	
H	Modified signage as per Dowal request v2	Ben Lyons	01/05/2018	SJT
I	Modified Stockhigh Rd alignment & Ancas Ave slip lane signage	Ben Lyons	30/05/2018	SJT

TRAFFIC GUIDANCE SCHEME 007-03: LONG TERM SIGNAGE ARRANGEMENT

Schramm Group Pty Ltd

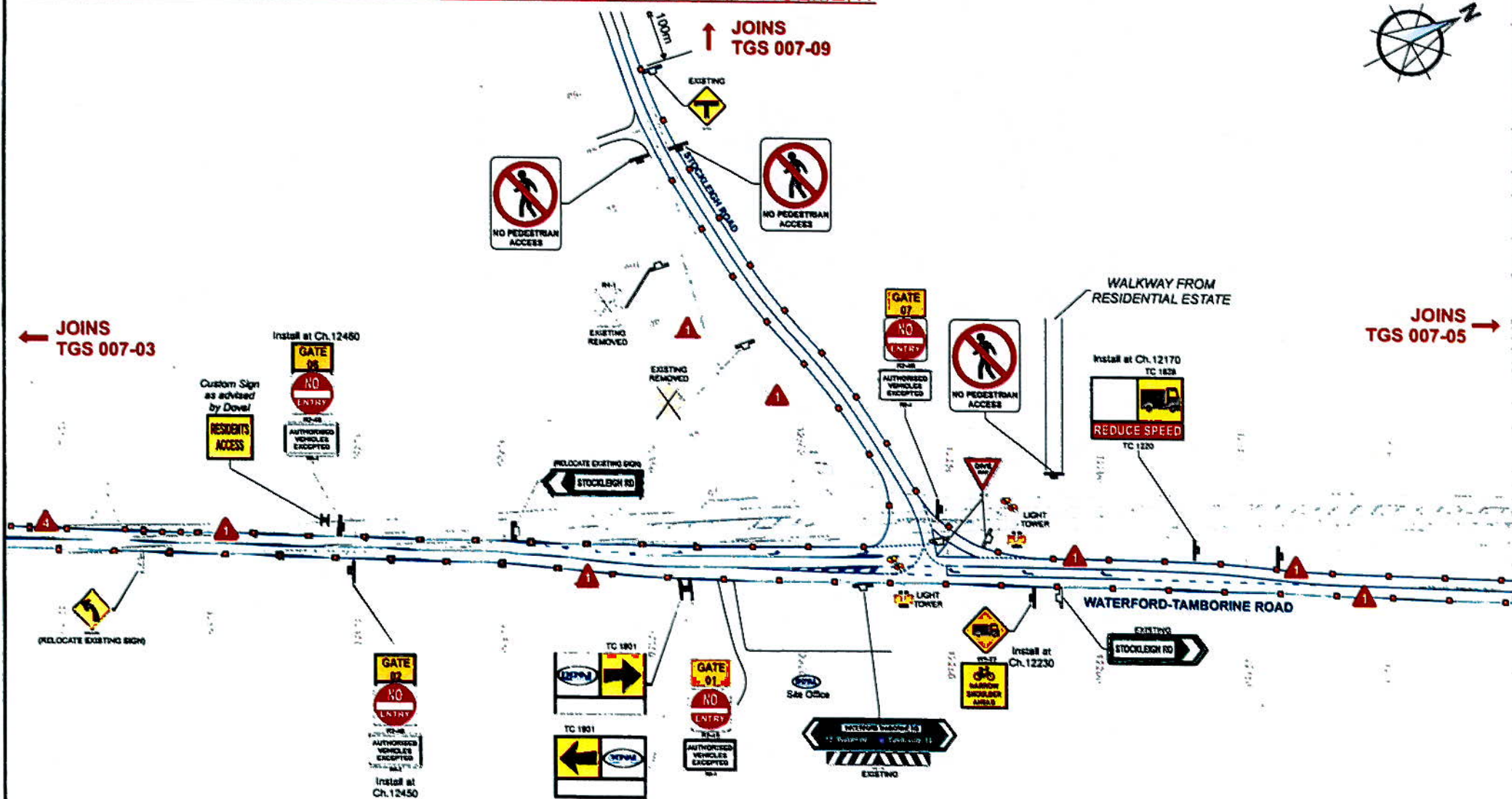


Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

SCHRAMM GROUP		DOVAL		Rev #		Description		Requested By		Date		Issued By	
18 NORTHLINK PLACE, WILLOWDALE, QLD 4214		18/03/2018		E		Added Detour sheet for H&M Rd Closure		Ben Lyons		18/03/2018		SJT	
TMR REGISTRATION NUMBER: 6219		12/04/2018		F		Modified detour route and signage v2		Ben Lyons		12/04/2018		SJT	
SHEET 05 OF 13		10/04/2018		G		Hand drawn markup drawn by Doval		Ben Lyons		10/04/2018		SJT	
THIS PLAN IS NOT TO SCALE		01/05/2018		H		Modified signage as per Doval request v2		Ben Lyons		01/05/2018		SJT	
TGS REF No: SCH 17:3015		30/05/2018		I		Modified Stockleigh Rd alignment & Arzac Ave site signage		Ben Lyons		30/05/2018		SJT	
Road Name:		Map Reference:		Travelled Path:		TGS		NAME		DATE		SIGNATURE	
Waterford-Tamborine Road		LSD Map 303 : F4		Past		INITIALLY DRAWN BY		Steven Turner		05/12/2017		CERTIFICATION	
Location of Works:		Taxis:		Operation:		DTMR TMD		TYPE		CARD NO.		OPEN	
Albert Street - Camp Cottle Road		Short Term		Shoulder Closure		501							
Bubur:		Road Type:		Speed Limit:									
Logan Village		Two Way Road		80km (80km Work Zone)									

TRAFFIC GUIDANCE SCHEME 007-04: LC TERM SIGNAGE ARRANGEMENT

Schramm Group Pty Ltd



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

SCHRAMM ARCHIP		Road Name: Waterford-Tamborine Road		Map Reference: LRD Map 303 : F4	Travelled Path: Past					<table><thead><tr><th>Rev #</th><th>Description</th><th>Requested By</th><th>Date</th><th>Issued By</th></tr></thead><tbody><tr><td>E</td><td>Added Detail sheet for Hot Rd Closure</td><td>Ben Lyons</td><td>18/03/2018</td><td>SJT</td></tr><tr><td>F</td><td>Modified closure route and signage v2</td><td>Ben Lyons</td><td>12/04/2018</td><td>SJT</td></tr><tr><td>G</td><td>Hand drawn markup drawn by Doval</td><td>Ben Lyons</td><td>10/04/2018</td><td>SJT</td></tr><tr><td>H</td><td>Modified signage as per Doval request v2</td><td>Ben Lyons</td><td>01/05/2018</td><td>SJT</td></tr><tr><td>I</td><td>Modified Stockleigh Rd alignment & Arzac Ave slip lane signage</td><td>Ben Lyons</td><td>30/05/2018</td><td>SJT</td></tr></tbody></table>					Rev #	Description	Requested By	Date	Issued By	E	Added Detail sheet for Hot Rd Closure	Ben Lyons	18/03/2018	SJT	F	Modified closure route and signage v2	Ben Lyons	12/04/2018	SJT	G	Hand drawn markup drawn by Doval	Ben Lyons	10/04/2018	SJT	H	Modified signage as per Doval request v2	Ben Lyons	01/05/2018	SJT	I	Modified Stockleigh Rd alignment & Arzac Ave slip lane signage	Ben Lyons	30/05/2018	SJT
Rev #	Description	Requested By	Date	Issued By																																								
E	Added Detail sheet for Hot Rd Closure	Ben Lyons	18/03/2018	SJT																																								
F	Modified closure route and signage v2	Ben Lyons	12/04/2018	SJT																																								
G	Hand drawn markup drawn by Doval	Ben Lyons	10/04/2018	SJT																																								
H	Modified signage as per Doval request v2	Ben Lyons	01/05/2018	SJT																																								
I	Modified Stockleigh Rd alignment & Arzac Ave slip lane signage	Ben Lyons	30/05/2018	SJT																																								
38 NORTHVIEW PLACE, VIRGINIA, QLD, 4264 Tel: 07 3808 4328		Location of Works: Albert Street - Camp Cable Road - Short Term		Turn: Shoulder Closure	Operation:	TGS	NAME	DATE	SIGNATURE	CERTIFICATION	TYPE	CARD NO.																																
THIS PLAN IS NOT TO SCALE		Suburb: Logan Village		Road Type: Two Way Road	Speed Limit: 80km (80km Work Zone)	INITIALLY DRAWN BY	Simon Tanner	05/12/2017		GTRM TMO	OPEN	501																																
TGS REF No: SCH 17:3016		SHEET 08 OF 13																																										

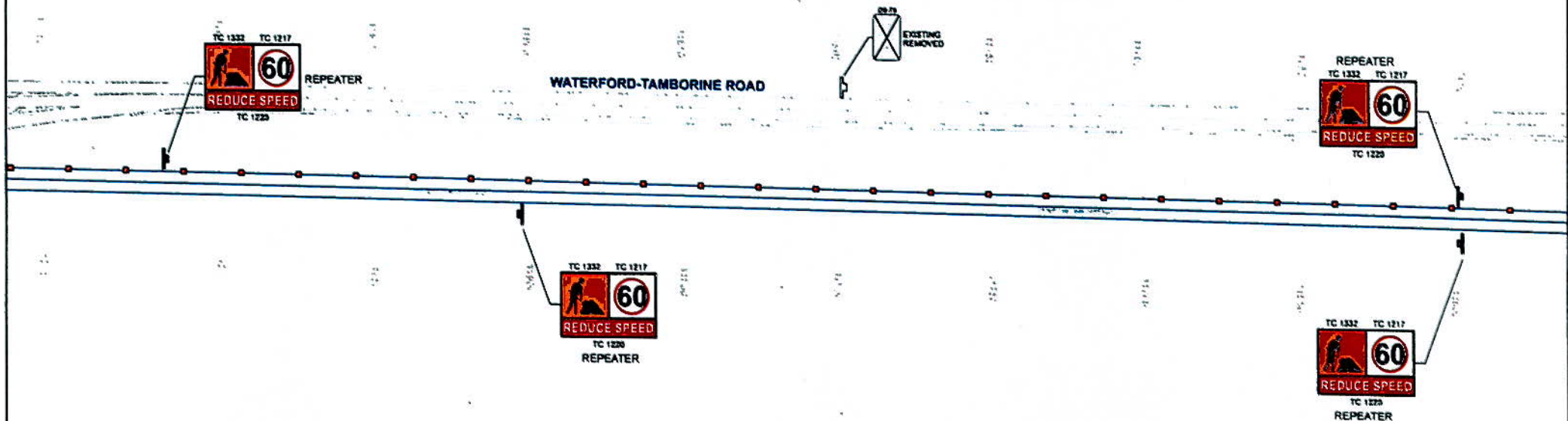
TRAFFIC GUIDANCE SCHEME 007-05: LC... TERM SIGNAGE ARRANGEMENT

Schramm Group Pty Ltd



← JOINS
TGS 007-04

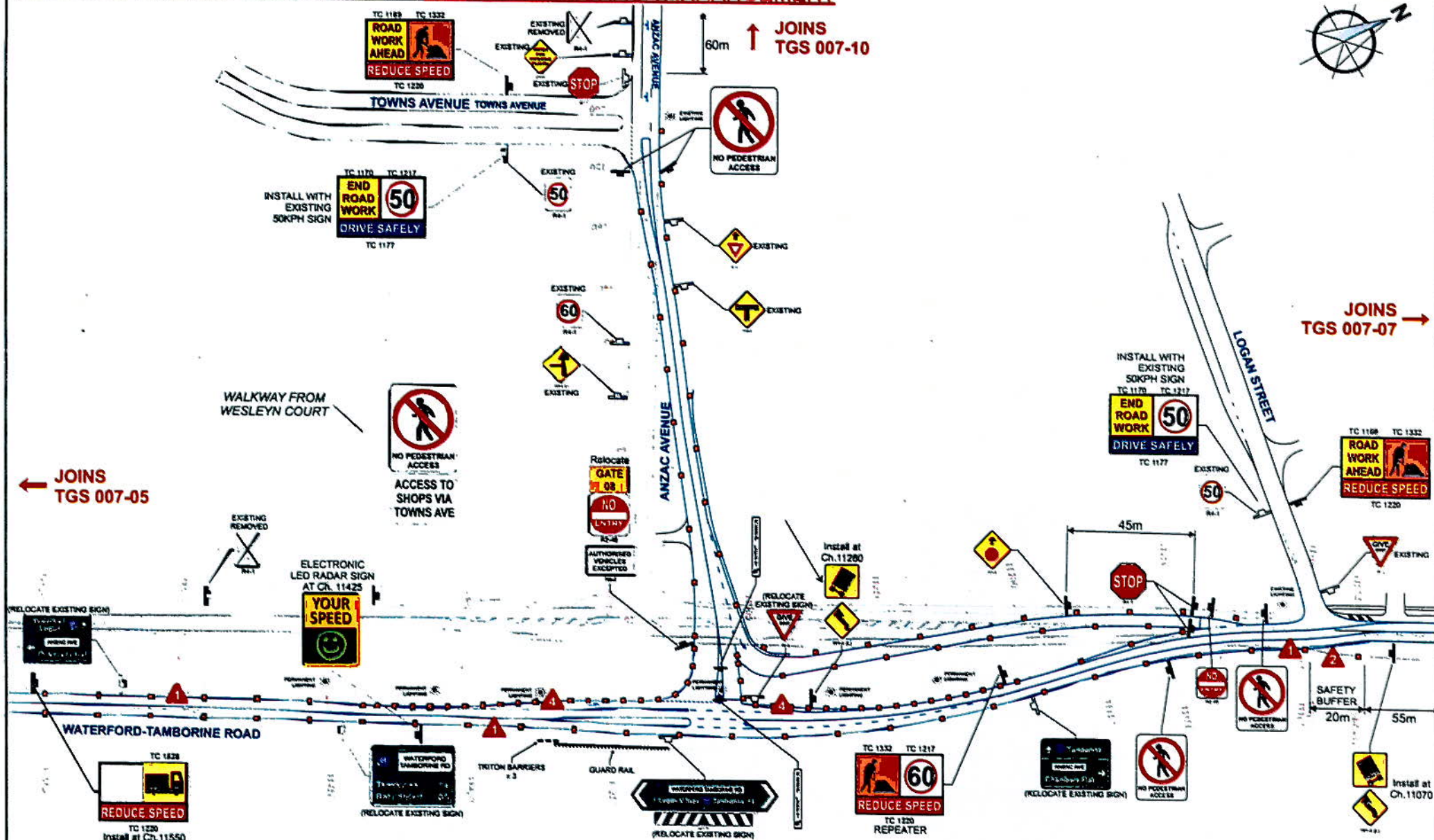
JOINS →
TGS 007-06



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

SCHRAMM GROUP		Road Name:	Map Reference:	Travelled Path:	DOVAL				Rev #	Description	Requested By	Date	Issued By
18 HORTON PLACE, VIRGINIA, QLD 4014 PH: 02 3008 4321		Waterford-Tamborine Road	UBO Map 303 : F4	Post					E	Added Detour sheet for Road Closure	Ben Lyons	18/03/2018	SJT
TMR REGISTRATION NUMBER: 6218 SHEET 07 OF 13		Location of Works:	Tam:	Operation:					F	Modified detour route and signage v2	Ben Lyons	12/04/2018	SJT
THIS PLAN IS NOT TO SCALE		Albert Street - Gerra Cable Road	Short Term	Shoulder Closure					G	Hand drawn markup drawn by Doval	Ben Lyons	10/04/2018	SJT
TGS REF No: SCH 17:3017		Suburb:	Reed Type:	Speed Limit:					H	Modified signage as per Doval request v2	Ben Lyons	01/03/2018	SJT
		Logan Village	Two Way Road	80km (80km Work Zone)					I	Modified Stockpiling Rd alignment & Arco's Ave slip lane signage	Ben Lyons	30/05/2018	SJT

TRAFFIC GUIDANCE SCHEME 007-06: LONG TERM SIGNAGE ARRANGEMENT

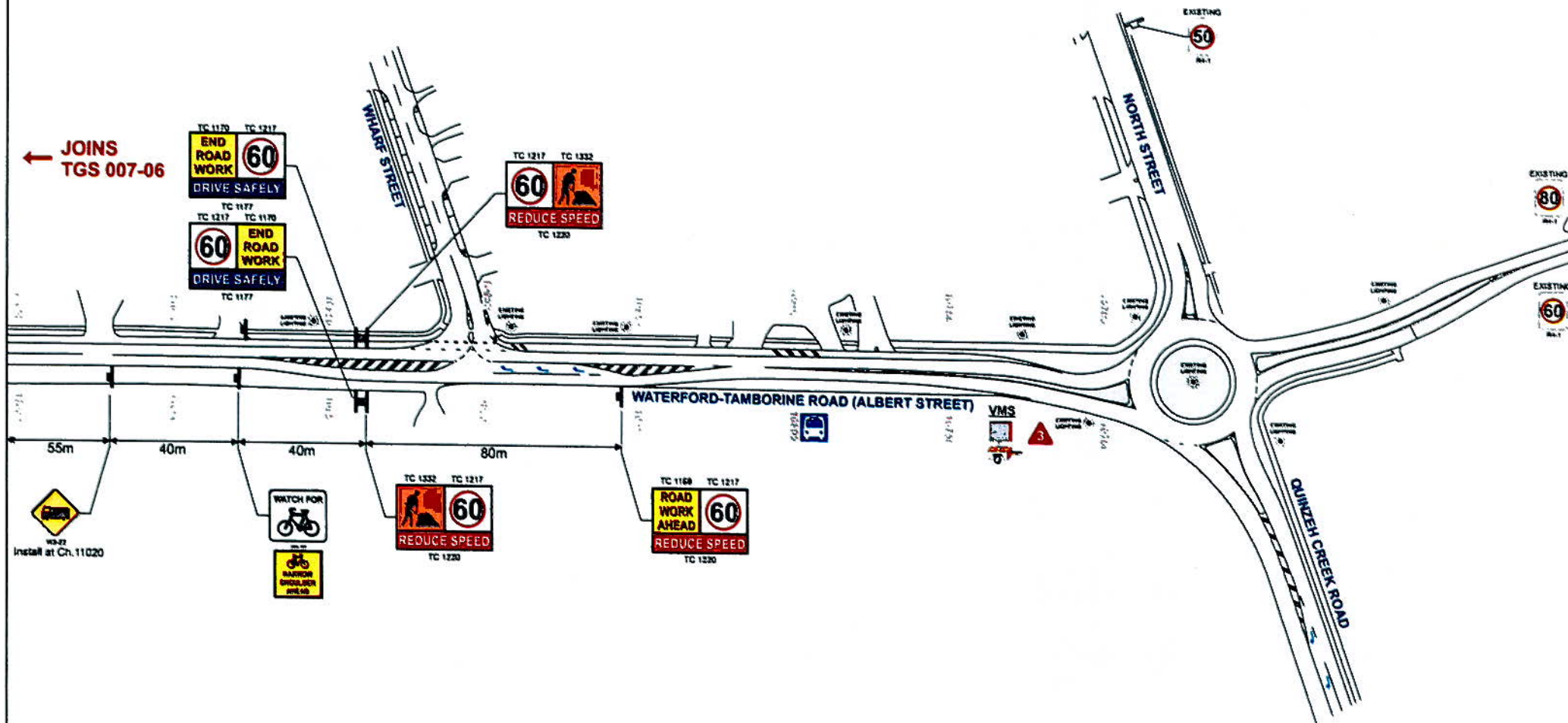


Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

		Road Name: Waterford-Tamborine Road Map Reference: USDO Map 333 : F4		Travelled Post: Past				Rev #		Description		Requested By	Date	Issued By
25 NORTHLINK PLACE, VANDERBILT, QLD 4214 PH: 07 3638 4321		Location of Works: Albert Street - Carra Castle Road Term: Short Term		Operation: Shoulder Closure				E F G H I		Address Closure event for Hotz Rd Closure Modified detour route and signage v2 Hand drawn markup drawn by Doval Modified signage as per Doval request v2 Modified Stop/Sign Rd alignment & Arcoz Ave slip lane signage		Ben Lyons Ben Lyons Ben Lyons Ben Lyons Ben Lyons	18/03/2018 12/04/2018 10/04/2018 01/05/2018 30/05/2018	SJT SJT SJT SJT SJT
THIS PLAN IS NOT TO SCALE TGS REF No: SCH 17:3018		Suburb: Logans Village Road Type: Two Way Road		Speed Limit: 80km (80km Work Zone)		TGS NAME DATE SIGNATURE CERTIFICATION TYPE CARD NO. INITIALLY DRAWN BY Shyon Tanner 03/12/2017  OTHER TMD OPEN 501								

TRAFFIC GUIDANCE SCHEME 007-07: LONG TERM SIGNAGE ARRANGEMENT

Schramm Group Pty Ltd

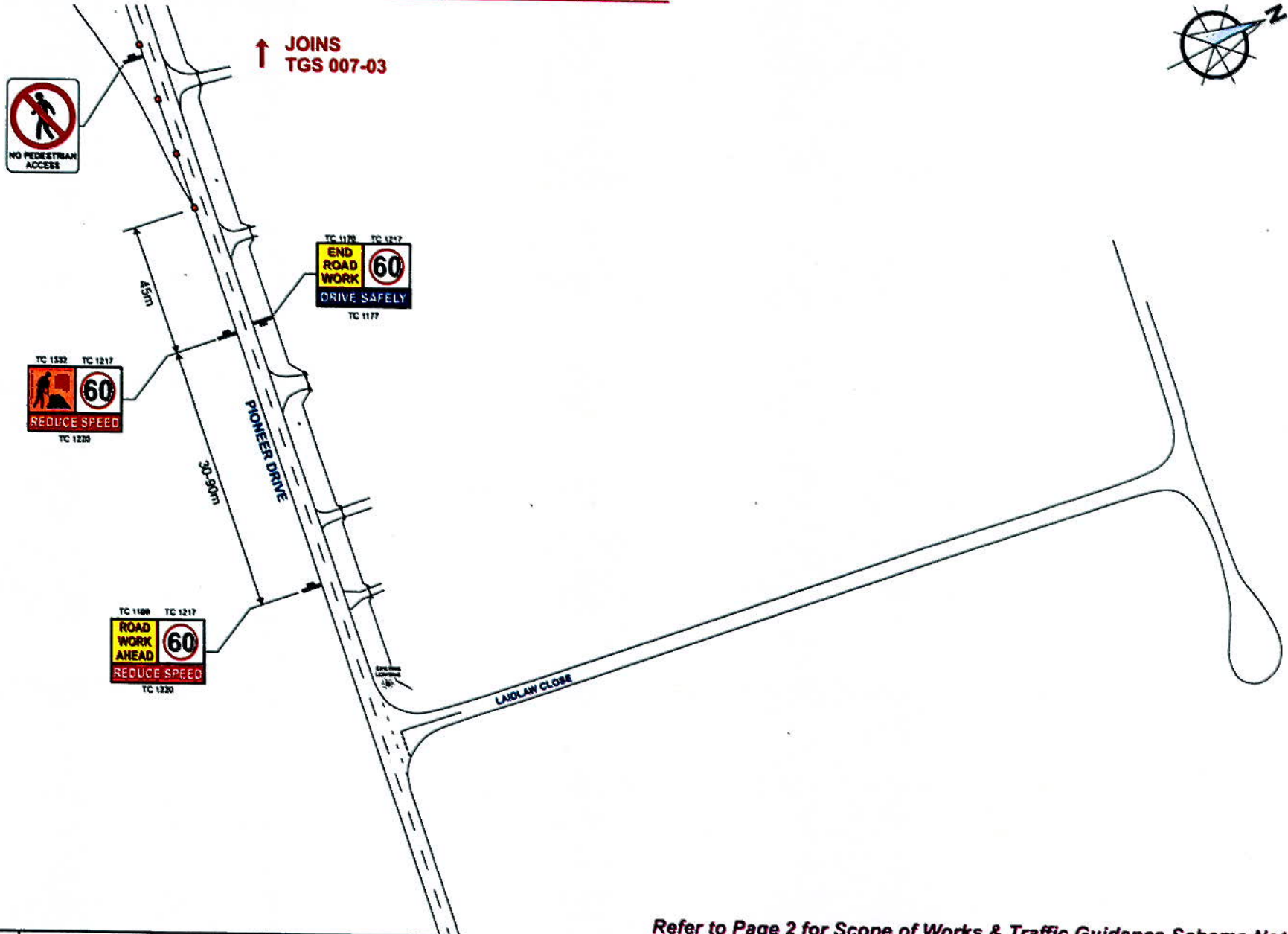


Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

SCHRAMM GROUP		DOVAL		Rev #		Description		Requested By		Date		Issued By	
18 NORTHLINE PLACE, WINDYBUSH, QLD 4814		18/03/2018		E		Added Detour sheet for Hozel Rd Closure		Ben Lyons		18/03/2018		SJT	
THIS REGISTRATION NUMBER: 0210		12/04/2018		F		Modified detour route and signage v2		Ben Lyons		12/04/2018		SJT	
SHEET 09 OF 13		10/04/2018		G		Hand down overlap drawn by Doval		Ben Lyons		10/04/2018		SJT	
THIS PLAN IS NOT TO SCALE		01/05/2018		H		Modified signage as per Doval request v2		Ben Lyons		01/05/2018		SJT	
TGS REF No: SCH 17:3019		30/05/2018		I		Modified Stockleigh Rd alignment & Ararat Ave slip lane signage		Ben Lyons		30/05/2018		SJT	

TRAFFIC GUIDANCE SCHEME 007-08: LON _ _ERM SIGNAGE ARRANGEMENT

Schramm Group Pty Ltd



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

SCHRAMM GROUP
 38 NORTHLINK PLACE, WILLOWDALE, QLD 4054
 TMR REGISTRATION NUMBER: 0216
 SHEET 10 OF 13
 THIS PLAN IS NOT TO SCALE
 TGS REF No: **SCH 17:3020**

Road Name:	Map Reference:	Travelled Path:
Vestibular-Tandem Road	USO Map 303 : F4	Post
Location of Work:	Notes:	Operation:
Albert Street - Camp Cattle Road	Short Term	Shoulder Closure
Suburb:	Road Type:	Speed Limit:
Logan Village	Two Way Road	80km (80km Work Zone)

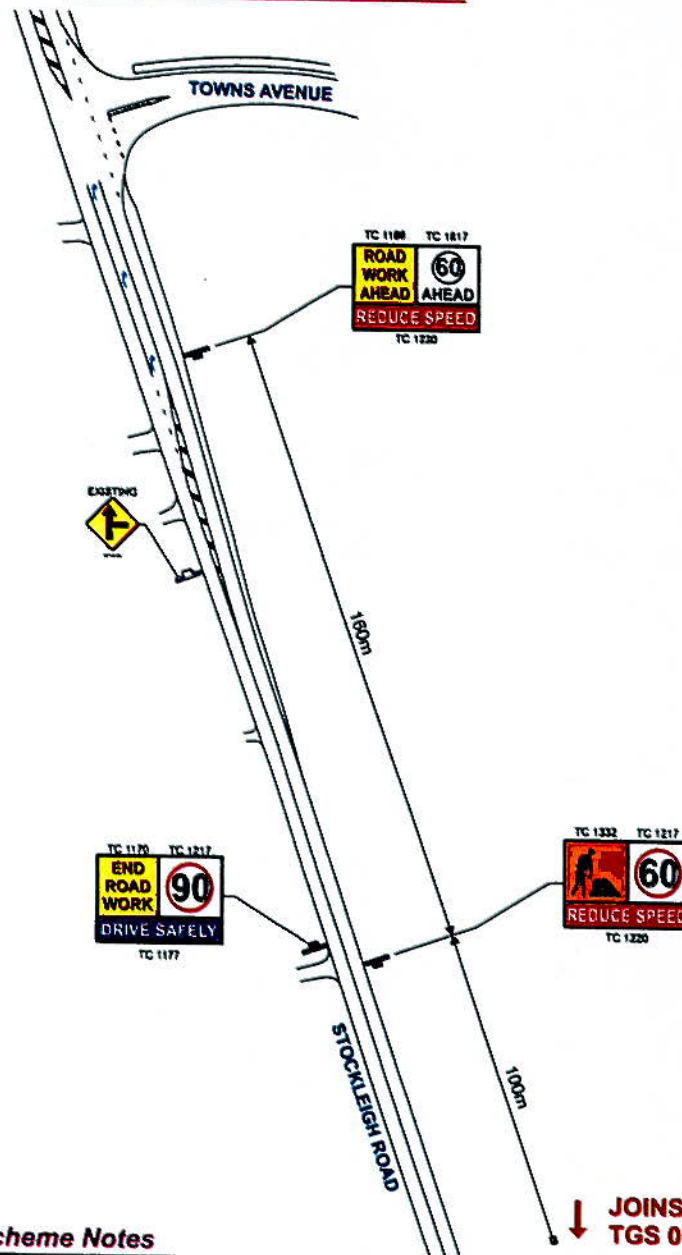
INITIALLY DRAWN BY		Simon Tanner	08/12/2017	SIGNATURE	CERTIFICATION	TYPE	CARD NO.
					DTMR TMD	OPEN	501



Rev #	Description	Requested By	Date	Issued By
E	Add Closure sheet for Note Rd Closure	Don Lyons	18/03/2018	SJT
F	Modified detour route and signage v2	Don Lyons	12/04/2018	SJT
G	Hand drawn markings drawn by Doval	Don Lyons	10/04/2018	
H	Modified signage as per Doval request v2	Don Lyons	01/05/2018	SJT
I	Modified Stockpiling Rd alignment & Arzac Ave site base signage	Don Lyons	30/05/2018	SJT

TRAFFIC GUIDANCE SCHEME 007-09: LON _ _ERM SIGNAGE ARRANGEMENT

Schramm Group Pty Ltd



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

SCHRAMM GROUP
 18 NORTHLINK PLACE, WILSON, QLD 4214
 TMR REGISTRATION NUMBER: 0210
 SHEET 11 OF 13
 THIS PLAN IS NOT TO SCALE
 TGS REF No: **SCH 17:3021**

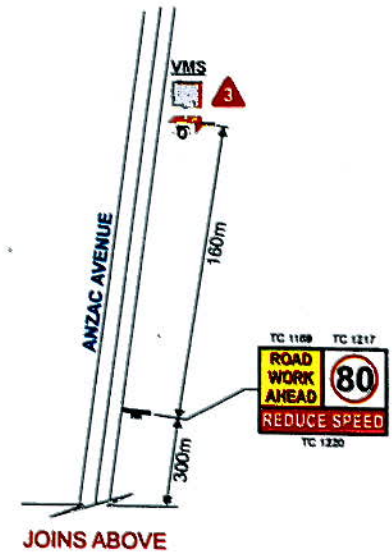
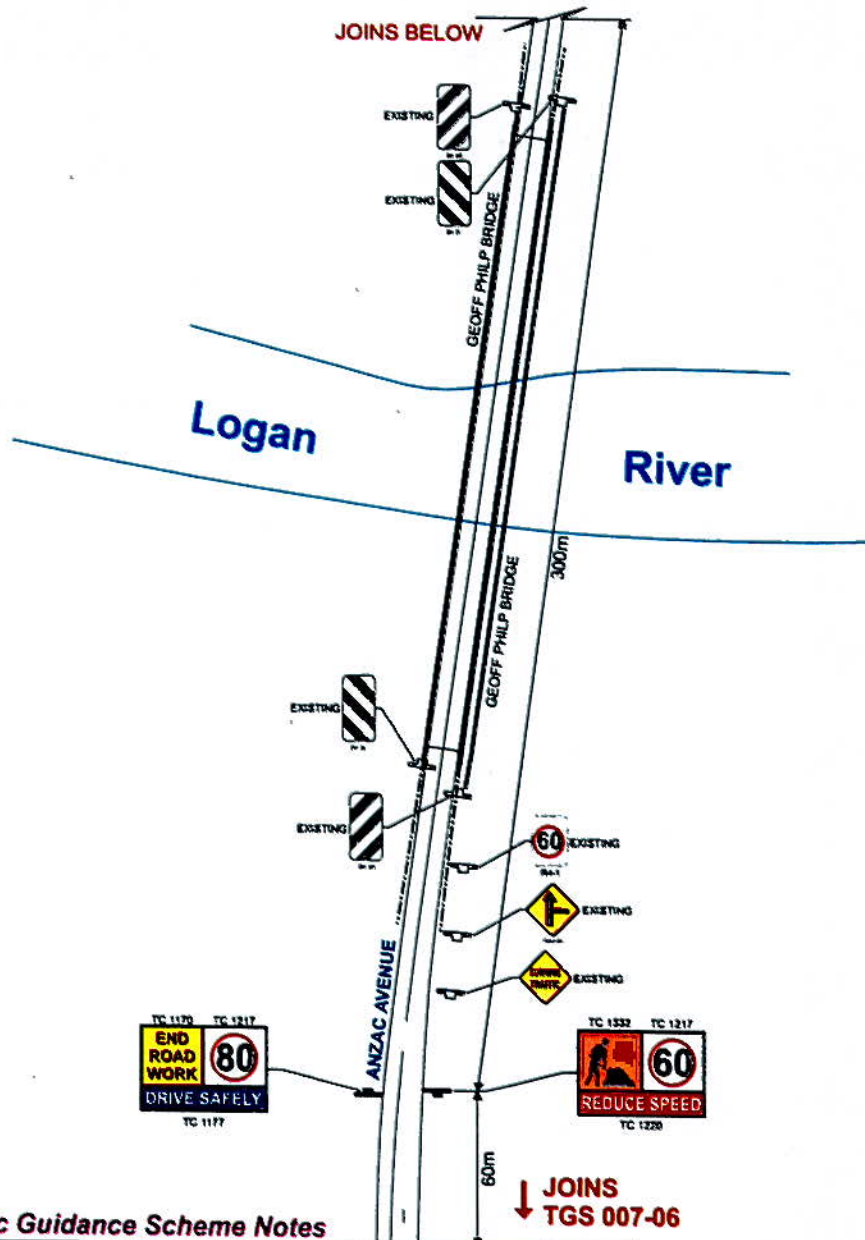
Road Name:	Map Reference:	Travelled Path:
Waterford-Tamborine Road	UBD Map 353 : F4	Post
Location of Works:	Term:	Operation:
Albert Street - Carrs Cattle Road	Short Term	Shoulder Closure
Suburb:	Road Type:	Speed Limit:
Logan Village	Two Way Road	80km (80km Work Zone)

DOVAL					
TGS	NAME	DATE	SIGNATURE	CERTIFICATION	TYPE
INITIALLY DRAWN BY	Simon Turner	05/12/2017	<i>Simon Turner</i>	DTMR TMD	OPEN
CARD NO.	501				

Rev #	Description	Requested By	Date	Issued By
E	Added Detour sheet for Haze Rd Closure	Ben Lyons	19/03/2018	SJT
F	Modified detour route and signage v2	Ben Lyons	12/04/2018	SJT
G	Hand drawn markings drawn by Doval	Ben Lyons	10/04/2018	SJT
H	Modified signage as per Doval request v2	Ben Lyons	01/05/2018	SJT
I	Modified Stockleigh Rd alignment & Ararat Ave slip lane signage	Ben Lyons	30/05/2018	SJT

TRAFFIC GUIDANCE SCHEME 007-10: LC... TERM SIGNAGE ARRANGEMENT

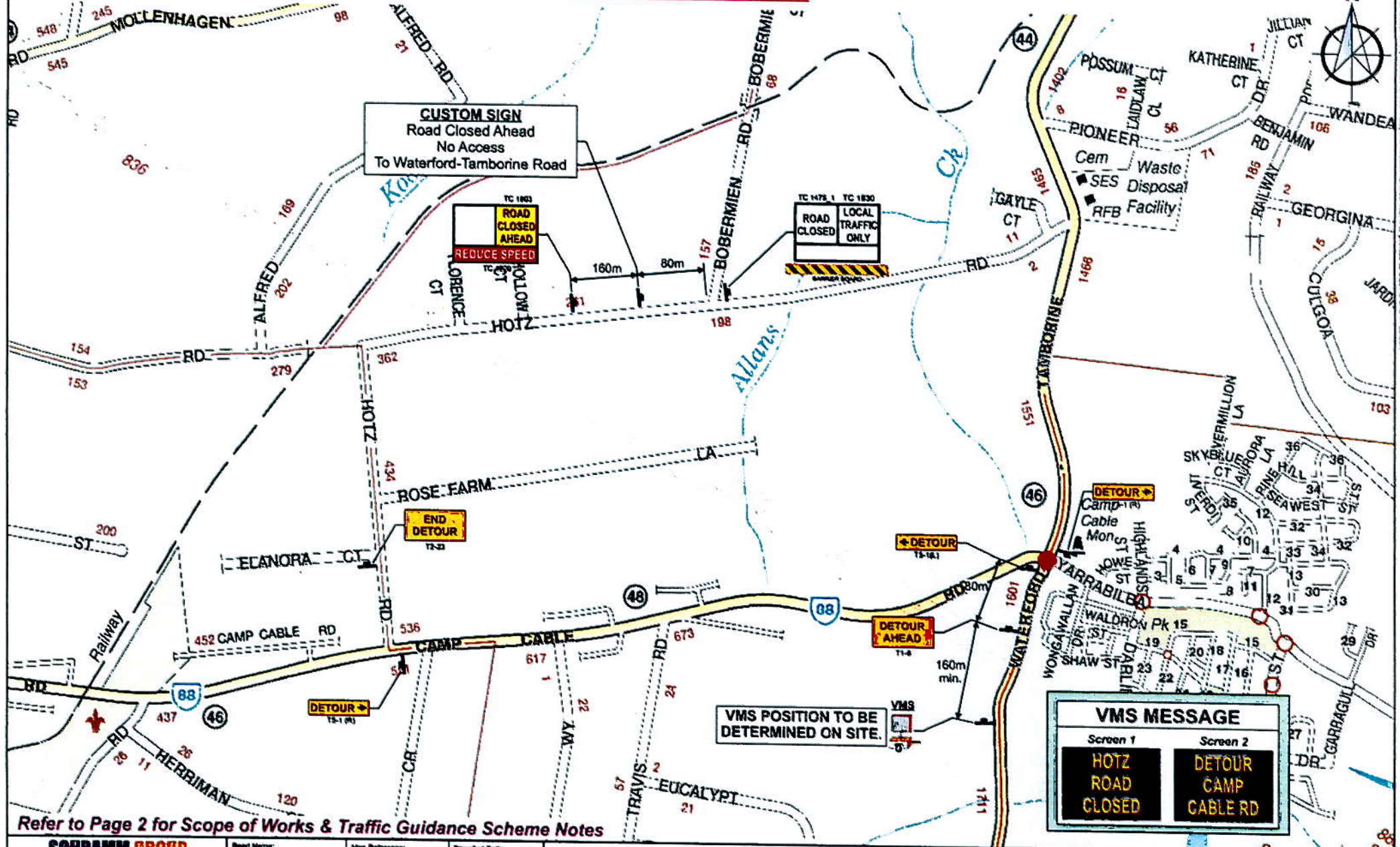
Schramm Group Pty Ltd



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

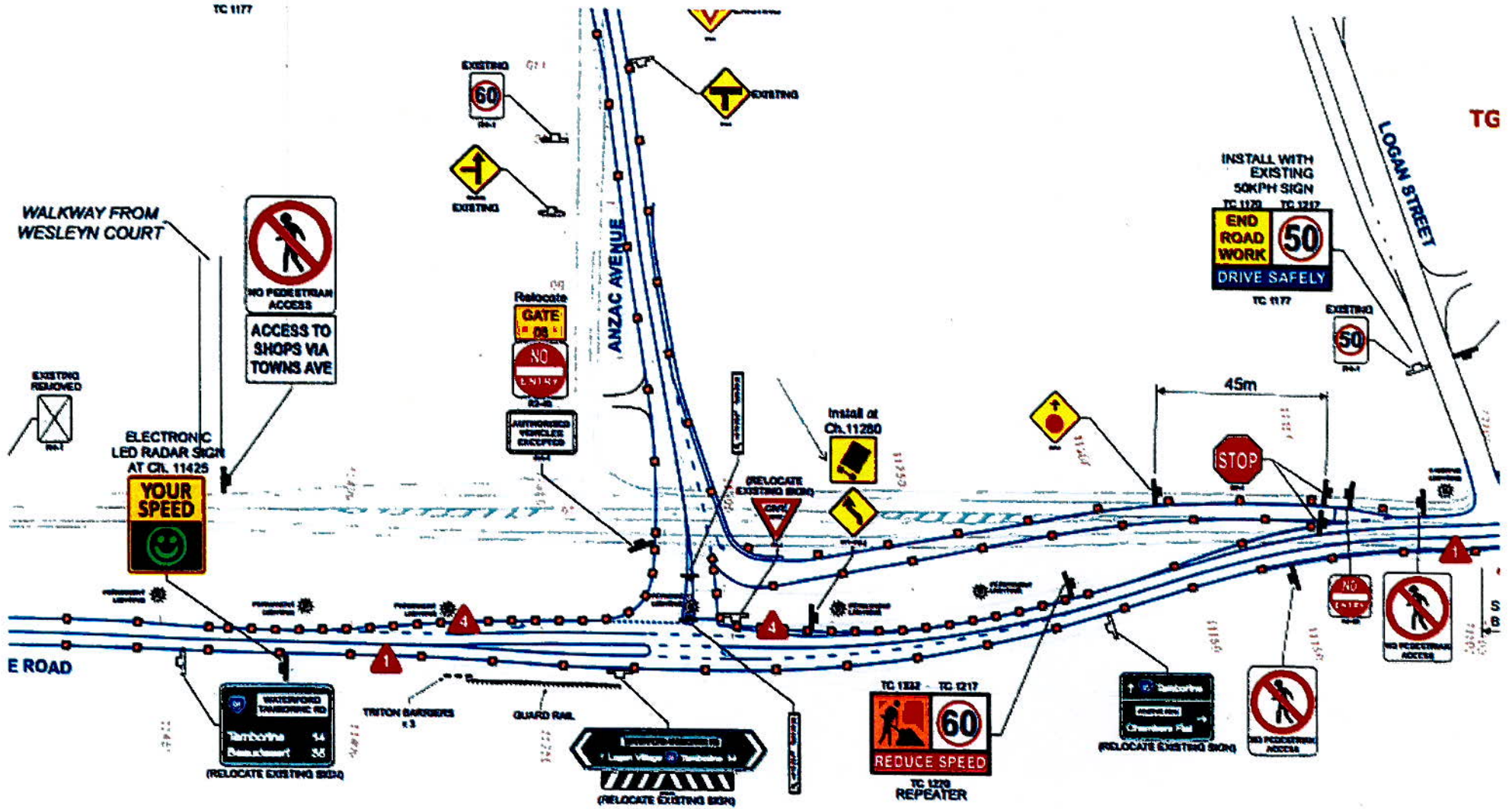
SCHRAMM GROUP 28 NORTHLINK PLACE, VIRGINIA, QLD 4264 TMR REGISTRATION NUMBER: 0210		Map Reference: UBO Map 303 : F4 Location of Works: Albert Street - Camp Cable Road Suburb: Logan Village		Traveller Path: Past Operator: Short Term Road Type: Two Way Road Speed Limit: 80km (80km Work Zone)		TGS NAME: Steven Tanner DATE: 05/12/2017 SIGNATURE: [Signature] CERTIFICATION: DTMR TWO TYPE: OPEN CARD NO.: 501		Rev # Description Requested By Date Requested By E Added Detour sheet for Hot Red Closure Ben Lyons 19/03/2018 S.J.T. F Modified detour route and signage v2 Ben Lyons 12/04/2018 S.J.T. G Hand drawn markings drawn by Doval Ben Lyons 10/04/2018 S.J.T. H Modified signage as per Doval request v2 Ben Lyons 01/05/2018 S.J.T. I Modified Stockpiled Red alignment & Anzac Ave side lane signage Ben Lyons 30/05/2018 S.J.T.	
THIS PLAN IS NOT TO SCALE TGS REF No: SCH 17:3022		SHEET 12 OF 13		INITIALS DRAWN BY: Steven Tanner		DOVAL			

TRAFFIC GUIDANCE SCHEME 007-11: LON LERM SIGNAGE ARRANGEMENT



Refer to Page 2 for Scope of Works & Traffic Guidance Scheme Notes

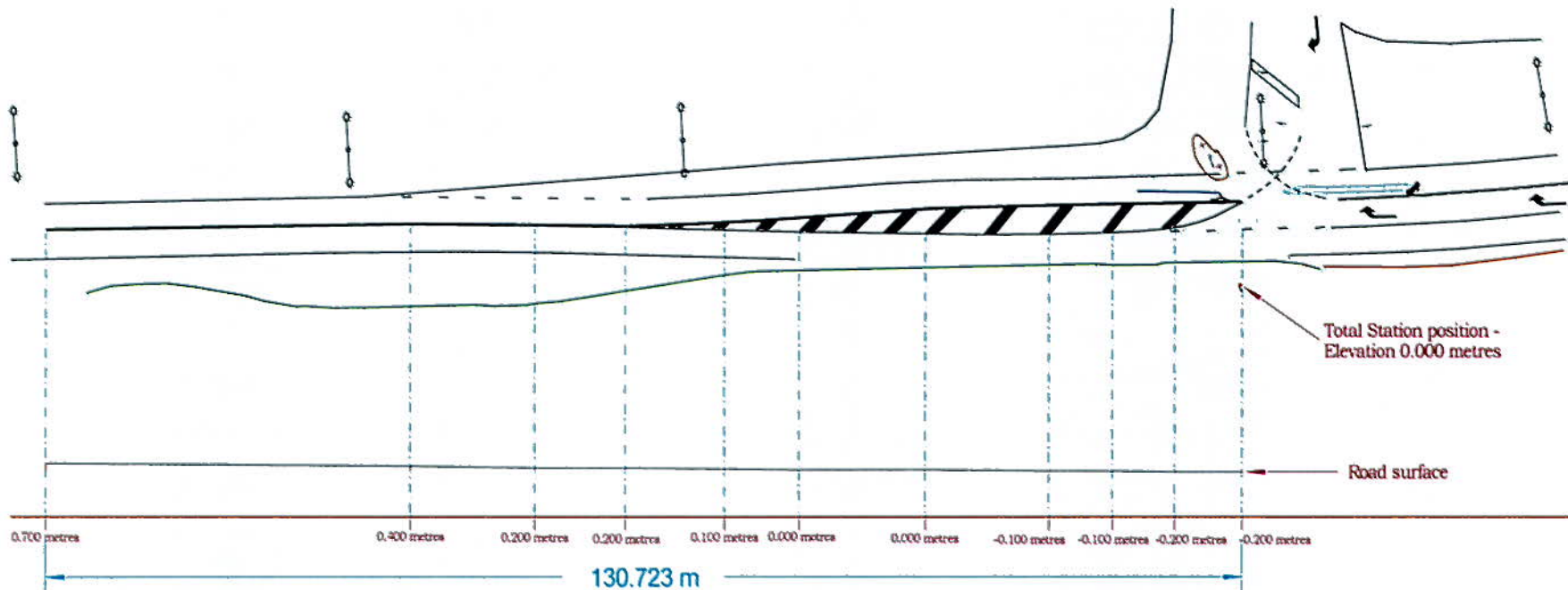
SCHRAMM GROUP		Road Name:		Map Reference:		Travelled Path:							Rev #		Description		Requested By		Date		Issued By		
38 NORTHLINK PLACE, WILLOWBUSH, QLD 4064 Ph: 07 2608 0261		Waterford-Tamborine Road		UBO Map 303 ; F4		First							E		Added Detour sheet for Hotz Rd Closure		Ben Lyons		18/03/2018		SJT		
TMR REGISTRATION NUMBER: 02112		Location of Works:		Term:		Operation:							F		Modified detour route and signage v2		Ben Lyons		12/04/2018		SJT		
SHEET 13 OF 13		Albert Street - Camp Cable Road		Short Term		Shoulder Closure							G		Hand drawn markings drawn by Doval		Ben Lyons		10/04/2018				
THIS PLAN IS NOT TO SCALE		Suburb:		Road Type:		Speed Limit:		TGS		NAME		DATE		SIGNATURE		CERTIFICATION		TYPE		CARD NO.			
TGS REF No: SCH 18:0820		Logan Village		Two Way Road		80km (80km Work Zone)		INITIALLY DRAWN BY		Simon Tanner		05/13/2017				DTMR TWO		OPEN		301			
						</																	



Ben Lyons | Project Engineer



Intersection of Albert Street and Anzac Avenue at Logan Village Road surface elevation and profile

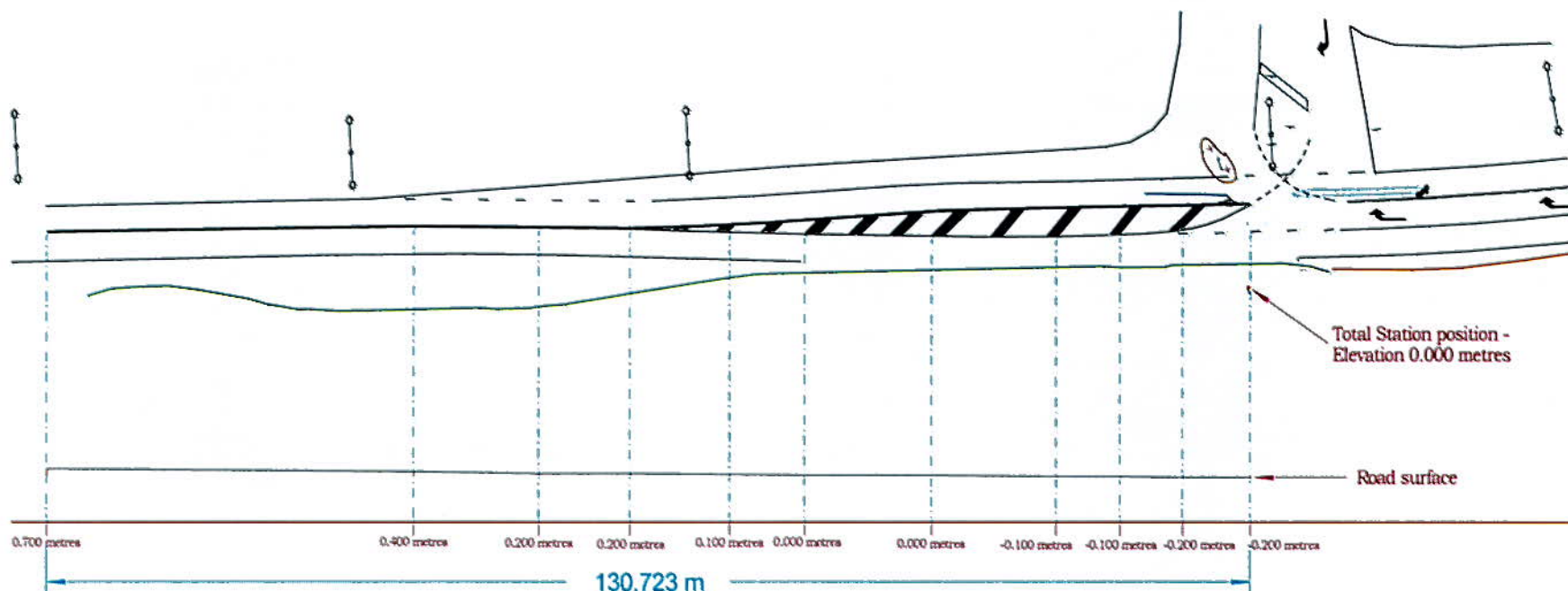


N.S. Campbell
Senior Constable 6038
Springwood Forensic Crash Unit

QP1801097710



Intersection of Albert Street and Anzac Avenue at Logan Village Road surface elevation and profile



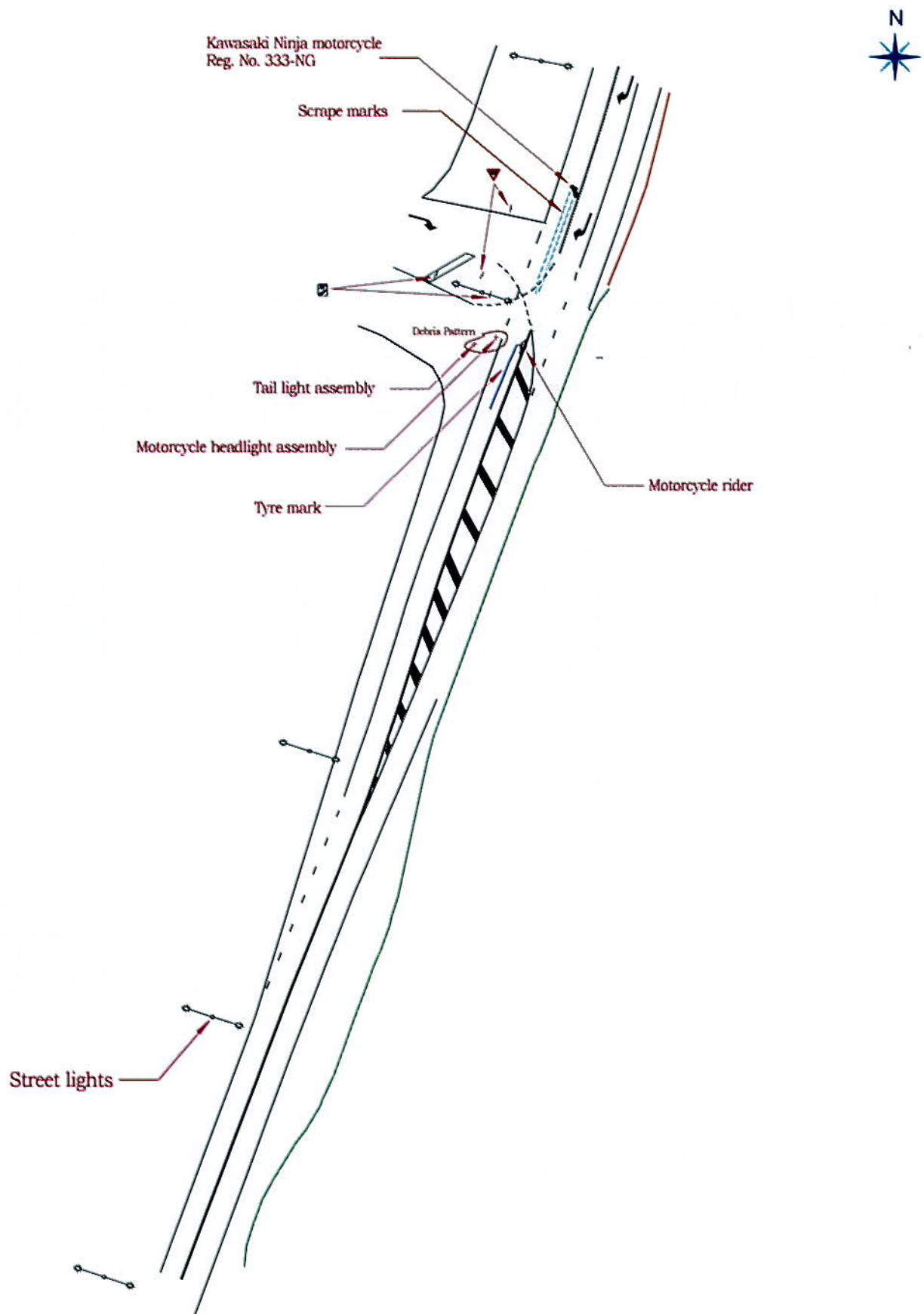
N.S. Campbell
oficer Constable 6635
Springwood Forensic Crash Unit

Scale 1 : 500 metres

QP1801097710



Intersection of Albert Street and Anzac Avenue at Logan Village



Kawasaki Ninja 2019

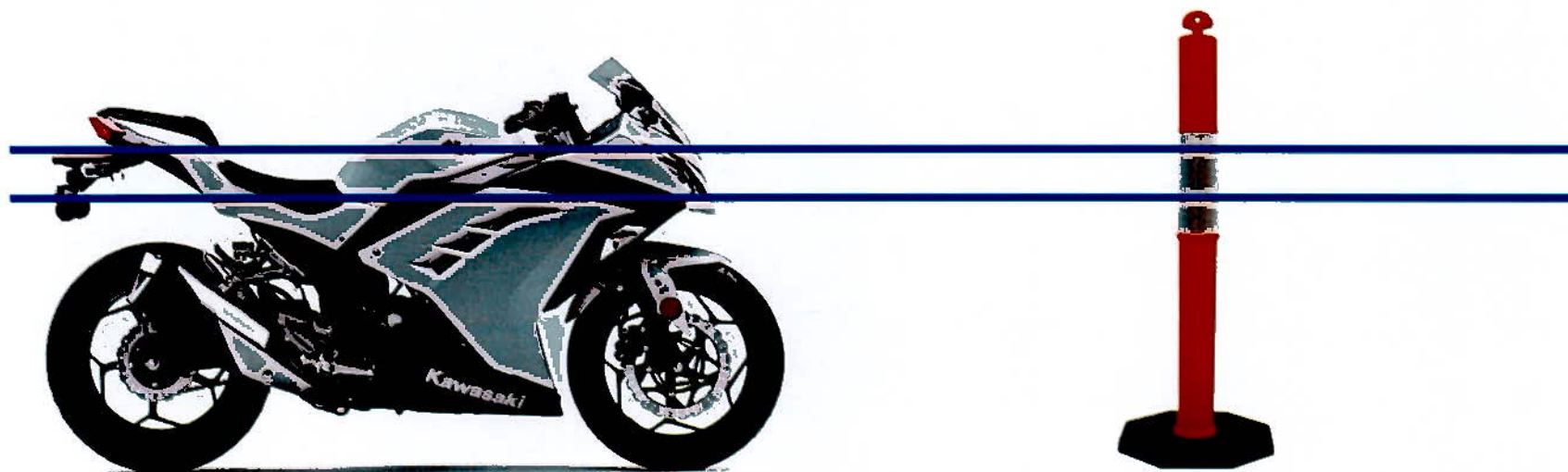
Height = 1,135mm

Seat height (same as headlights) = 790mm

T Top Safety Bollard

Height = 1,140mm

Reflector height = (similar?)



Jaybro Civil & Safety Products



Product Spec Sheet

Product: 16-TBASE6 (T-Top Base 6kg)

Size: To suit T-Top
Weight: 6kg
Base Width: 420mm
Material: 100% Recycled PVC
Tensile Strength: 6.0 MPA



Jaybro Civil & Safety Products



Product Spec Sheet

Product: 16-TBOLT (T-Top Bollard 1150mm TOP ONLY)

Material	Blow Moulded Polyethylene
Bollard Height	1150mm
Bollard Diameter	100mm
Weight	0.7kg
Reflective Collar	250mm
Tensile Strength	18.0MPA
Impact Elasticity	31%



Northbound Speed Signage on Waterford Tamborine Road (From Camp Cable Road through to Anzac Avenue)

Heading north from Camp Cable Road the speed limit is 80km/hr.

1. Approximately 100 metres south of the Green Frog Hollow Café there are 60km/hr Ahead signs.



2. Approximately 70 metres north of the Green Frog Hollow Café the speed limit changes from 80km/hr to 60km/hr.



3. Approximately 240 metres north of the Green Frog Hollow Café there are 60km/hr repeater signs.



4. Approximately 90 metres south of Pioneer Drive there is a 60km/hr repeater sign.



5. Approximately 360 metres north of Pioneer Drive there is a 60km/hr repeater sign.



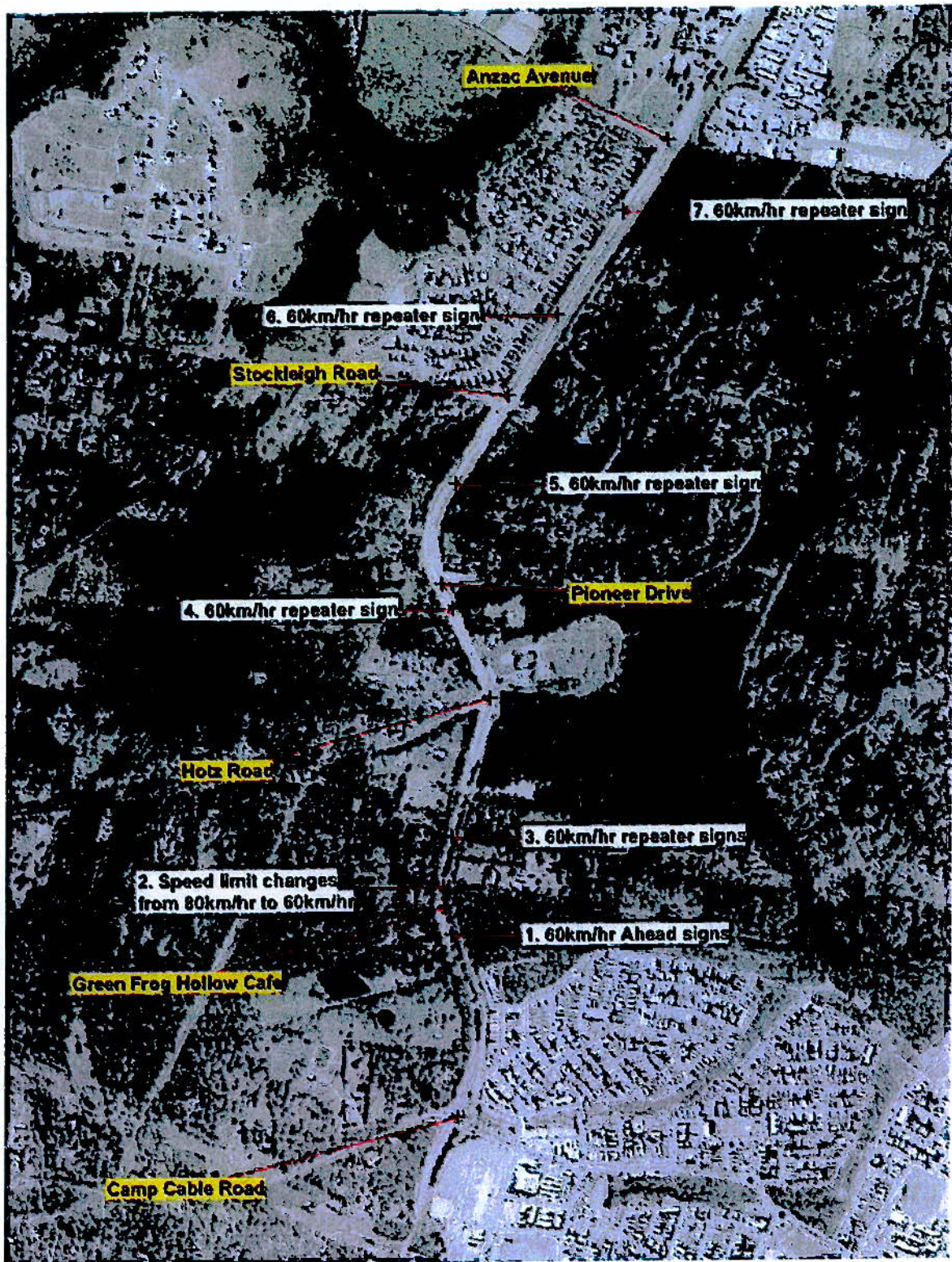
6. Approximately 300 metres north of Stockleigh Road there is a 60km/hr repeater sign.



7. Approximately 270 metres south of Anzac Avenue there is a 60km/hr repeater sign.

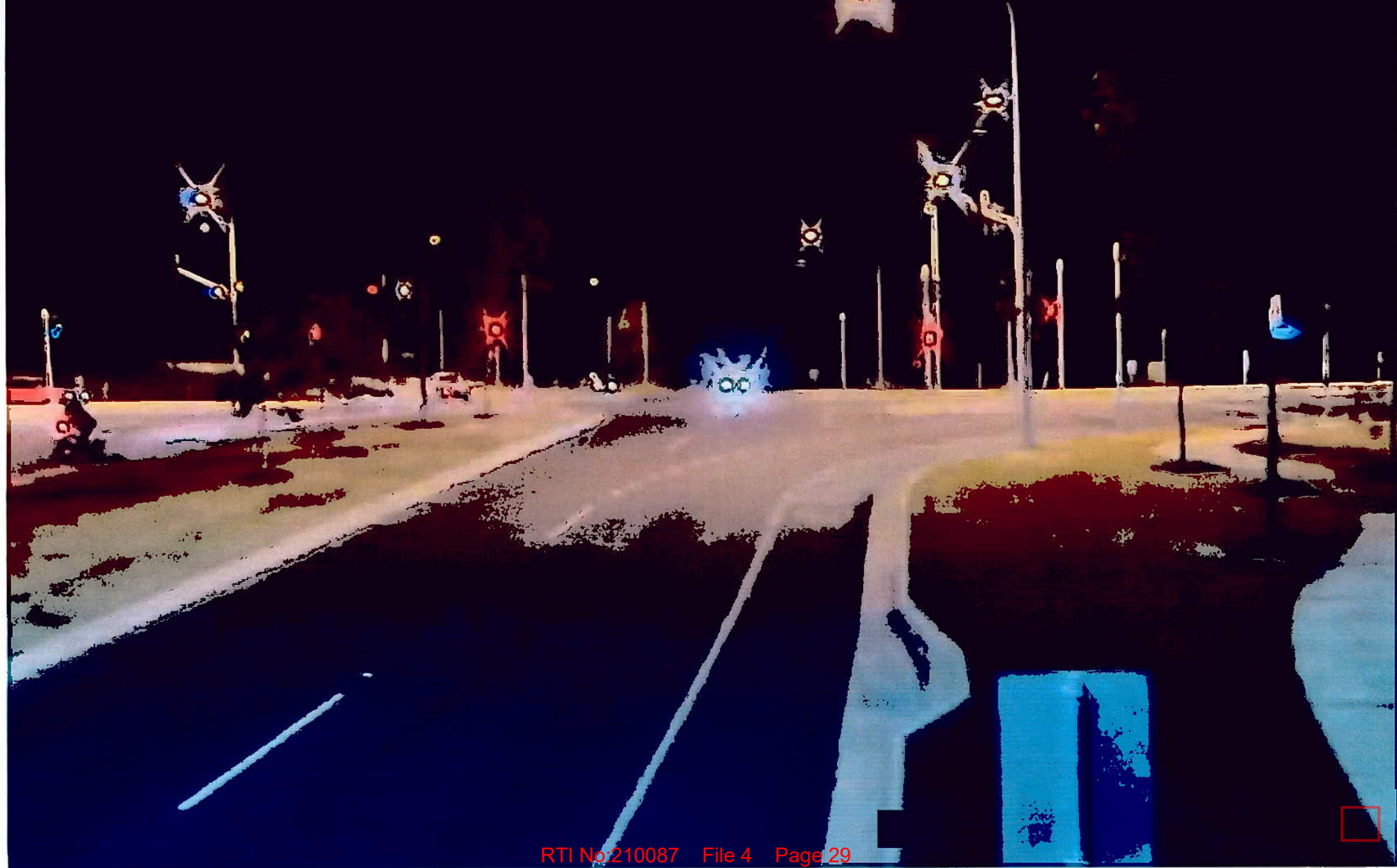


Aerial View of Northbound Speed Signage Layout on Tamborine Waterford Road

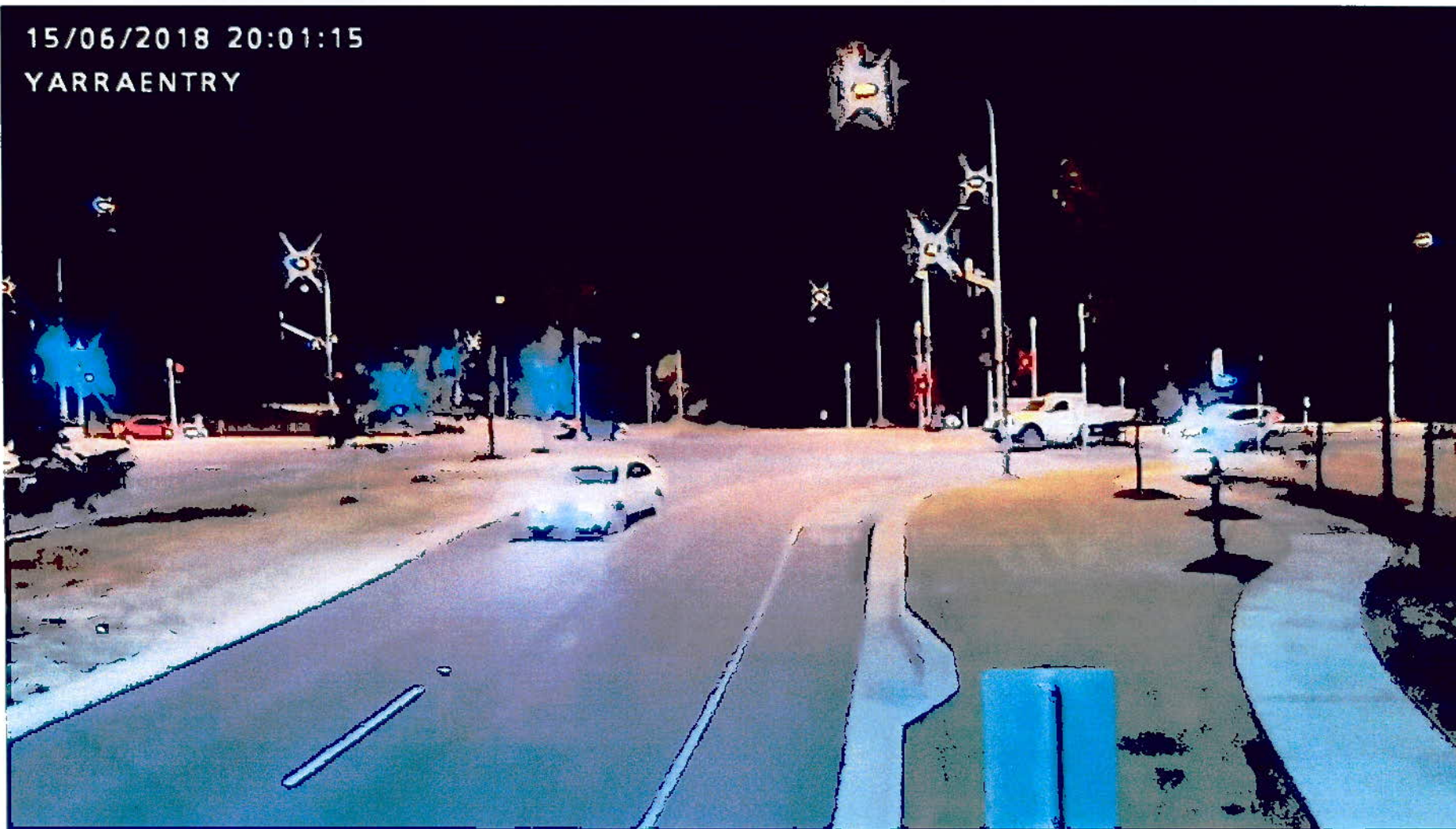


2018 20:00:33

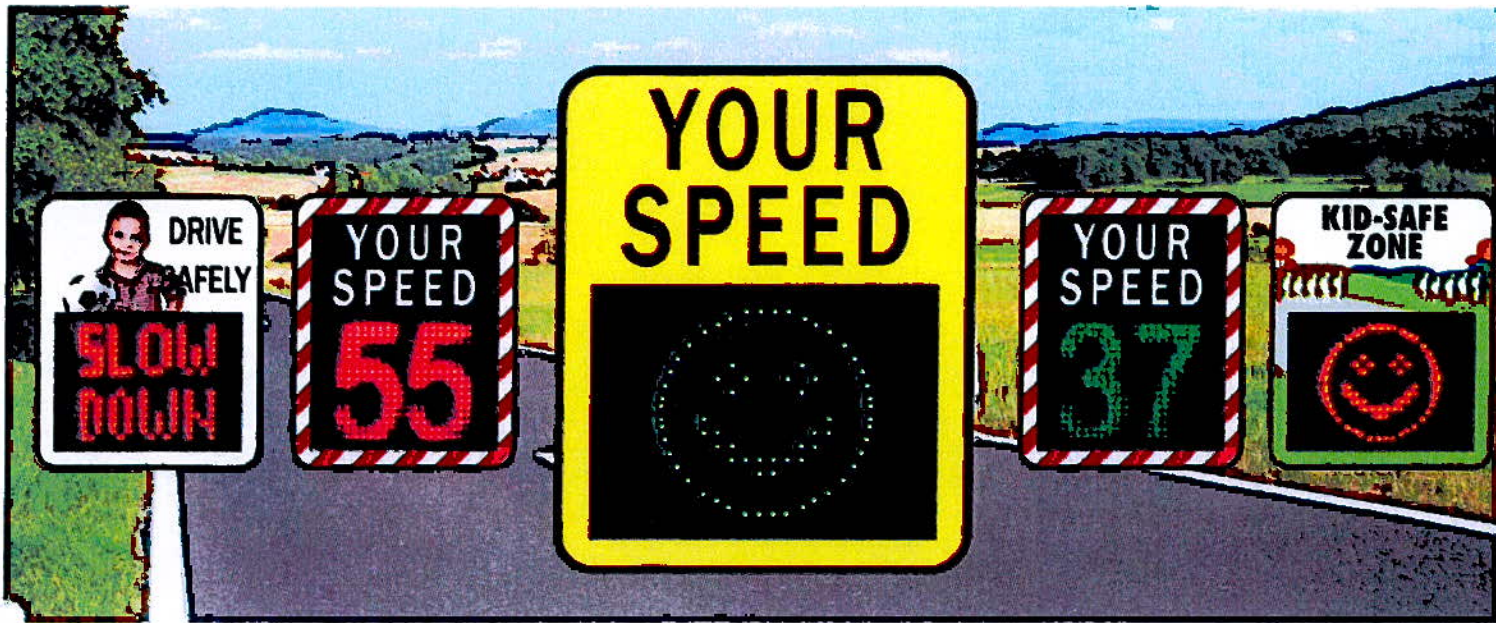
ENTRY



15/06/2018 20:01:15
YARRAENTRY



Speed Display GR33S / C



SPEED DISPLAYS TRAFFIC DETECTION

Radar. Detection. Software.

Features

- Dot matrix display
- Displays speed and pictures in **AMBER** (GR33S) or **RED, YELLOW** and **GREEN** (GR33C)
- Flashes if speed threshold is exceeded
- Individual bitmaps can be uploaded such as text messages, smiling/frowning faces, speed limits, logos or any other symbols
- Adjustable minimum/maximum speed threshold
- Time controlled activation
- Automatic brightness regulation
- High contrast due to unique display construction
- Large front plate for custom, digitally printed designs
- Robust Lexan front window with anti-glare coating
- Data collection for more than 200.000 records
- Bluetooth for display configuration
- Measurement of the supply voltage
- Deep discharge protection for batteries
- Low weight - only 9 kg!
- Easy one-man installation
- User friendly control software for Android and Windows
- **Unique value for money**

Highlights

It is a fact that radar-driven speed displays slow down traffic permanently.

This positive effect can be attributed to the display's ability to alert drivers with responsive messages wherever the device is deployed (school zones, Kindergarten, zebra crossings or on busy roads in residential areas).

The GR33S and GR33C are dot-matrix display that are able to show speeds driven as well as individual bitmaps which is an additional benefit to common speed displays.

Both speed displays offer speed and time triggered bitmaps (such as smileys) and short text messages in **AMBER** (GR33S) or **RED, YELLOW** and **GREEN** (GR33C). As an example the devices are able to show different pictures during school time and the rest of the day.

All these features are put into a compact and extremely smart enclosure.



Android is a trademark of Google Inc., Windows is a trademark of Microsoft Inc.
Bluetooth is a trademark of Bluetooth SIG

SIERZEGA
detects traffic!
www.sierzega.com



Electrical Data

Input Voltage	12V
Power Consumption	Low Power Design!
Standby (Radar on, LEDs off)	< 0,1W (!)
Display active (speed value)	< 1W
Peak (all LEDs active)	4W

Radar Sensor

Operating Frequency	K-Band (24 GHz)
Transmitting Power	5 mW
Certification	FCC, IC, CE approved
Operating Speed	2 ... 199 km/h or 2 ... 150 mph
Detection Range	min. 100 m, avg. 200 m Truck avg. 300 m
Accuracy	± 3 %

LEDs

Brand	High-Performance Osram LEDs „Black Series“
Color	Yellow 590 nm (GR33S) Red, Green and mixed color Yellow (GR33C)
Life Span	Long Lifetime and Reliability
Radiation Angle	30° Lense
Viewing Angle	> 120°

Display

Resolution	16 x 18 Pixel + Ring
Pixel Grid	20 mm
Digit Size	30 cm
Reading Distance	approx. 150 m
Readability	Unique contrast due to Special Design
Update Rate	approx. 1 sec, adjustable
Brightness Regulation	Automatically
Bitmap Memory	250 Pictures

Mechanical Data

Dimensions	61 x 75 x 4 cm
Weight	9 kg
Enclosure	Aluminium
Front Plate Sheeting	Reflective yellow/white, black with red/white stripes or digital print
Protection Degree	IP67
Front Window	Lexan, Anti-Glare Coating
Ambient Temperature	-25°C to 60°C

Scope of Delivery

- Speed Display GR33S or GR33C
- Software: BT-Comm/GRS/Android App
- Pole Brackets (60 or 76 mm)
- Power supply Cable 12V
- Optional: Variable Pole Clamps
- Optional: Batteries and Solar Power Supply
- Optional: Remote Control Unit (RC1)



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Valentinstraße 11 - A-4062 Therning - Email: office@sierzega.com - Phone: +43 7221 64 114 0



Sierzega is TÜV Austria EN ISO 9001 certified.
The company develops, produces and delivers high-performance radar systems like radar controlled LED displays and traffic detection systems.

