Works Access Permit

Worksite De	Worksite Details							
The Parties	RCA Auckland Transport	Client Chorus	The Applicant VISIONSTREAM PTY LIMITED					
Worksite	Name VISIONSTREAM L2 GENERIC	Client Reference VISIONSTREAM L2 GENERIC	Address 1 Barr Rd, Mahurangi West, Warkworth, 0983, NZL					
	Worksite ID AT-W36284	Worksite Revision 3.1	Worksite Status issued					
	Work Window 02 Oct 2017 03 Sep 2018	Time of Day 09:00 - 16:00	Estimated Duration 124 days					

The Parties

Auckland Transport being a body corporate in accordance with the Local Government Act 2002 ('the Corridor Manager');

Chorus being an approved Utility Operator in accordance with the submitting a request for access in accordance with that Act;

VISIONSTREAM PTY LIMITED being the agent of the Utility Operator submitting this request on behalf of the Utility Operator and in accordance with the Utility Operator's statutory rights ('the Applicant').

Background

- a. The Utility Operator wishes to carry out the works stated on CAR Number AT-W36284 and thereafter maintain the utility services established in the corridor:
- b. The Corridor Manager is required to provide a written consent in accordance with its governing legislation and to provide a schedule of reasonable conditions, if required, by the utility legislation under which the request for access has been made; and
- c. In accordance with the Code: Utilities' Access to the Transport Corridors and on behalf of the Corridor Manager, I give my written consent for access to the corridor at the agreed location and attach my schedule of reasonable conditions:

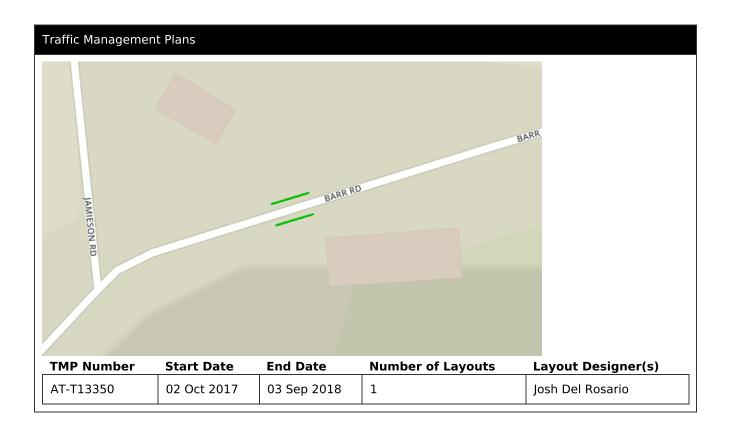
This approval constitutes Auckland Transport's requiring authority consent under section 178(2) and, where required, section 176(1)(b) of the Resource Management Act 1991.

Signed

Daniel Simons acting pursuant to delegated authority.

Contacts & Affected Parties							
Туре	Company	Name	Email	Mobile	Phone		
Principal Client Contact	Chorus	Nick Miskelly	nick.miskelly@chorus.co.nz	0277064601			
Applicant	VISIONSTREAM PTY LIMITED	Madeleine Pain	madeleine.pain@visionstream.co.nz	093561310	093561310		
Bill Payer	Chorus	Linda Fitch	linda.fitch@chorus.co.nz	0272088227	03 9667542		

Location	Max Depth	Min Depth	Description
Berm			Soft surface excavation only
Footpath, Berm			Haul/splice fibre
	Berm	Berm	Berm



Works	e Documentation	
Other	See attached documents: • Blank.pdf	

AT General Conditions

- 1) The Utility Operator must: a) carry out all Work in Transport Corridors in accordance with the Code and KiwiRail's Specifications for Working in Railway Corridors;
- b) undertake all Works in compliance with the Acts of Parliament and mandated codes of practice that relate to their industry and the type of Work described within the plans and methodology submitted;
- c) install assets more or less in the location shown on the attached plans, and agree the exact location and position with the Road Corridor Manager before Work commences;
- d) locate any Utility Structures in the Road Corridor in the agreed position shown on the drawings and clear
 of the Carriageway, Road Corridor furniture and kerbs, drains, manholes, etc. Utility Structures agreed to
 be within the trafficable part of the Road are to be flush with the surface and designed to withstand full
 heavy Traffic loading (NZTA's HN-HO-72 Traffic Loading);
- e) provide a full description of the construction methodology, reinstatement, resurfacing and compaction and agree this with the Road Corridor Manager prior to Work commencing;
- f) make the Works available at all times for inspection by any person representing the Road Corridor Manager;
- g) if requested, pay the reasonable costs of the Road Corridor Manager in connection with the processing of this notice and for the monitoring and auditing of the Works;
- h) keep a full copy of the Works Access Permit/ Permit to Enter and Reasonable Conditions on the Work Site at all times during the Works;
- i) undertake remedial action on non-conforming Work within the timeframe set by the Road Corridor Manager, where reasonable and practicable;
- j) gain all the necessary consents, approvals and permits from the relevant statutory and regulatory authorities at its own cost;
- k) keep plans of the installed Work and make them available to the Railway Corridor Manager (in all cases) and Road Corridor Manager (on request);
- I) compensate the Road Corridor Manager for any damage or costs incurred to the Road Corridor due to the Work or for costs resulting from the removal of abandoned installations, Utility Structures, components and equipment that belong to the Utility Operator;
- m) repair all Road Corridor assets damaged as a result of the Works, should the Road Corridor Manager determine these are necessary prior to the end of the Warranty period;
- n) restore to their original condition any surface or Utility Structure that was damaged or removed as a result of the Works;
- o) control the surface water channels so as to cause minimal interference to existing flows;
- p) fully restore the surface water channels at the completion of the Works;
- q) notify the Road Corridor Manager of any maintenance Work it proposes to undertake within the twoyear Warranty period;
- r) have in place an approved TMP for Roads and Motorways at least two days prior to Work commencing on the Work Site;
- s) provide the Road Corridor Manager with two Working Days' notice before commencement of Work on the Work Site;
- t) ensure that the Work is carried out under the control of a warranted supervisor as required by the Code of Practice for Temporary Traffic Management and ensure that there are sufficient people on site specifically to control the flow of Traffic through the site in accordance with the TMP;
- u) comply with instructions from an officer of the NZ Police Traffic Safety Branch or a duly authorised agent of the Road Corridor Manager in respect of Traffic management and safety;
- v) complete Works in the Road Corridor in one continuous operation (suspension of Works over five continuous days requires the prior written permission of the Road Corridor Manager);
- w) protect and maintain all Road Corridor signs, markers, signals, barriers and associated marking and replace them to the appropriate industry standard where they have been damaged by the Works;
- x) complete and submit a Works Completion Notice form when the Works are complete; and
- y) stop Work as necessary to meet the requirements of section 10 of the Historic Places Act 1993.
- 2) Work must not take place on or near a State highway during and one day either side of a public holiday or public holiday weekend.
- 3) Where otherwise required due to Traffic volumes or specific residential or Central Business District requirements, the hours of Work must be as specified in the Local Conditions and Special Conditions.
- 4) The Warranty period starts from the date the Road Corridor Manager has given signed acceptance that the Work is complete.
- 5) Unless the Works stated in the WAP have started on the Work Site, the agreement relating to the Works will only remain valid for six months from the date of approval on the Works Access Permit.
- 6) The Road Corridor Manager must manage all applications relating to Road Corridor access in accordance with the timeframes and processes in the Code.

- 7) The Corridor Manager may: a) assess the suitability of any action proposed by the Utility Operator during the Warranty period and impose Reasonable Conditions that will maintain the integrity of the Road assets; b) arrange for remedial Work to be done and recover the costs incurred from the Utility Operator, if the Utility Operator fails to take action within the agreed timeframe; and c) instruct the Utility Operator to stop Work and leave the Work Site (having made the site safe) if the Works are not complying with the relevant Reasonable Conditions including any plans, relevant conditions or specifications contained in the Code, or permission requirements.
- 8) In granting this WAP, no vested right is created.
- 9) This WAP is not transferable without the written permission of the Road Corridor Manager.

Custom Conditions

• - If another contractor already has approval in the area required, you must either coordinate work sites or come back once other contractor is clear. - Weekly reporting must be provided via uploading an Excel spreadsheet in this approval and notifying RCA.

Traffic Manage	Traffic Management Plan (TMP)							
Organisations	Contractor VISIONSTREAM PTY LIMITED	Principal VISIONSTREAM PTY LIMITED	RCA Auckland Transport					
TMP Details	TMP ID AT-T13350	Revision 4.1	TMP Status Accepted					
Worksite	Name VISIONSTREAM L2 GENERIC	Reference VISIONSTREAM L2 GENERIC	Address 1 Barr Rd, Mahurangi West, Warkworth, 0983, NZL					
	Worksite ID AT-W36284	Worksite Revision 3.1	Worksite Status issued					

Layouts		
Layout 66982		
Description	Level 2/2LS AT Gene	eric TMPs
Date Range	02 Oct 2017 to 03 Sep 2018	
Continuous Deployment	No	
Traffic Control In	09:00	280
Site Cleared	19:00	BARR RD
First Sign In		
Pickup		
Days	Sun, Mon, Tue, Wed, Thu, Fri, Sat	
Impact Category	Shoulder only	
Does this layout need to be advertised?	No	
Layout Designer	Josh Del Rosario 75016	
Lane Closures		
Signage Required		
Traffic Impacts	Pedestrians Affected Property Access Affected Parking Removed Shoulder Closure	

Conditions - Auckland Transport (Primary)



TRAFFIC MANAGEMENT PLAN (TMP) - FULL FORM

Use this form for complex activities. Refer to the NZ Transport Agency's Traffic control devices manual, part 8 Code of practice for temporary traffic management (CoPTTM), section E, appendix A for a guide on how to complete each field.

TMP reference: VPL L2 & 2LS

Generics

Contractor (Working space):

visionstream

Level 5, 8 Hereford St, Freeman's Bay, Auckland PO Box 5100, Wellesley Street, Auckland 1141

Ph: 09 352 1000 **Fax:** 09 352 1083

Web: www.visionstream.co.nz

Contractor (TTM):

Principal (Client):



Level 18 Chorus House 66 Wyndham Street, Auckland PO Box 6640 Wellesley St Auckland Ph: 0800 600 100

Web: info@chorus.co.nz

RCA:





Suburb	Auckland (Various)			
Location details and	Road names	House no./RPs (from and to)	Road level	Permanent speed
road characteristics	Various Roads under the control of Auckland Transport	Various	2LS & L2	Various
Traffic details	AADT	Peak flows	•	
(main route)	Various	07:00-09:00 & 15:00-17:00		

Description of work activity

EXCLUSIONS:

Organisations

/TMP

reference

- Build UFB excluded
- Minor build works involving a civil component larger than 3m² or 6 linear metres of trenching excluded
- Not to be used for excavations in any hard surface (concrete/ seal). Only soft surface allowed.
- No pole replacements
- Any work in the carriageway excluded
- Not to be used for any TTM setup other than a Shoulder Closure
- The footpath must not be closed and there must be maintained a minimum footpath width of:
 - o 0.9m in residential rural areas
 - o 1.2m in suburban centres
 - 2.0m in the CBD and commercial zones

Minor inter-day work (usually one to two days). This will include Aerial provisioning, scoping, build, maintenance, emergency works and provisioning.

May include small excavations in ONLY SOFT SURFACE up to 3m² or 6 linear metres of trenching. Works usually 1-2 days. A separate TMP/CAR must be applied where work needs to be done in hard surface (concrete, asphalt/tar seal).

Scoping: Opening manholes for scoping purposes only. Short duration - approx. 10 mins Aerial provisioning: To maintain and provision aerial network

Emergency: Initial response to situations where customers have lost service to the network, this could be a single customer or multiple customers through fixed line or mobile infrastructure.

^{**} If scope of work changes to include excavation in the hard surface, work must stop and site to be made safe, then CAR must be applied**



Description of work activity (continued)

Maintenance: Where a customer or multiple customers difficulty with their service but not a total loss. Includes work on poles, final reinstatement of emergency works and fault corrections (soft surface only). No pole replacements.

Provisioning: works to provide service due to a customer request- commonly result in hand excavation around the pillar, or hand digging at the top of an ROW. Can also include small hand excavations at the customer boundary or at a location where existing plant (pipe, conduit) is blocked or broken. This includes the opening of manholes and pits.

Minor build: works to provide service due to a provisioning request. This could be a blocked duct or a repositioning of the lateral. May also include the installation of ducts and pits up to 3m² or 6 linear metres in the soft surface.

Planned work program	nme								
Start date	03/03	3/18 Ti	me As below	End date	03/09/18	Time	As below		
Consider significant stages, for example:	Work vehicles	rk vehicles must be legally parked or be part of the work site and traffic is unaffected.							
 road closures detours no activity periods. 	Work Hours as follow: L2/2LS: 09:00 – 16:00 Weekend Hours: 07:00 – 19:00 Work hours restricted to 9:30 – 15:00 when working in close proximity to a school during term time. TTM Closures will be localized to area where works are in progress, allowing for the safest possible management of traffic. All TTM to be deployed as per CoPTTM All TTM will have the appropriate Pedestrian Management and all Pedestrians to be managed through or around the work areas. If the work is not completed, all excavations to be backfilled at the end of the day and temporarily reinstated, site must be made safe, and all equipment to be removed from site including any TTM. ** If scope of work changes to include excavation in the hard surface, work must stop and site to be made safe, then CAR must be applied**								
Alternative dates if activity delayed	N/A				OPS/LANES are affected.				
Road aspects affected	(delete either	Yes or No to sh	ow which aspects	are affected)					
Pedestrians affected?	Yes	Property acce	ess affected?	Yes	Traffic lanes affected	I?	No		
Cyclists affected?	No	Restricted pa	rking affected?	Yes	Delays or queuing like	cely?	No		
Proposed traffic mana	gement metho	ods							
Installation (includes parking of plant and materials storage)	works end signinstalled. Chosen Closu	TTM to be installed via a mobile operation. Advanced warning signage to be placed first and ending with the works end signage. Delineation devices such as cones and barriers to be placed once all signage has been installed. Chosen Closure to be recorded along with the install times on a copy of the On-Site Record Sheet by STMS. L2/2LS Road is to be set up by L2/3P STMS.							
Attended (day)		evel 2LS shoul		h appropriate	pedestrian management.				
Attended (night)	N/A								



Unattended (day)	If the work is not completed, all excavations to be backfilled at the end of the day and temporarily reinstated, and all equipment to be removed from site including any TTM.
Unattended (night)	If the work is not completed, all excavations to be backfilled at the end of the day and temporarily reinstated, and all equipment to be removed from site including any TTM.
	N/A
Detour route	Does detour route go into another RCA's roading network? N/A (delete either Yes or No)
20.00.1100.0	If Yes, has confirmation of acceptance been requested from that RCA? N/A (delete either Yes or No)
	Note: Confirmation of acceptance from affected RCA must be submitted prior to occupying the site.
Removal	Removal of TTM to be in reverse of installation. Delineation devices to be removed/amended first via a mobile operation, followed by all signage if not appropriate to any unattended layouts required.
	Closure removal to be documented on On-Site Record Sheet by STMS.

Proposed TSLs (see TSL decision matrix for guidance)

,							
	TSL details as required Approval of Temporary Speed Limits (TSL) are in terms of Section 5 of Land Transport Rule: Setting of Speed Limits 2003,Rule 54001 (List speed, length and location)	Times (From and to)	Dates (Start and finish)	Diagram ref. no.s (Layout drawings or traffic management diagrams)			
Attended day/night	N/A	N/A	N/A	N/A			
Unattended day/night	N/A	N/A	N/A	N/A			
TSL duration	Will the TSL be required for longer than six months? If yes, attach the completed checklist from section I-18: G for TSLs to this TMP.	No					

Positive traffic management measures

With the use of signs and cones we plan to Advise and Direct the public through the work site in a timely manner away from hazards ensuring the safety of public and worker.

They may be implemented to control vehicle speeds through the worksite, assist pedestrians, or cyclist, etc... These will always be implemented in accordance with the 'Code of Practice'.

The below is included as a guide to the STMS, the TMP(s) shoulder be followed at all times, unless, site safety is compromised, or if the site conditions have changed since the approval of the TMP(s)

Pedestrians.

When and where appropriate, pedestrian signs will be used to show the safest path for the public to follow. At all times, TC staff is to be on "look out" pedestrian, so as to help them navigate the work area. Special attention will be made to the elderly or impaired pedestrians. "Linemen" supplementary signs will be used where we have people working overhead on poles.

Contingency plans



Generic contingencies for:

- major incidents
- incidents
- pre planned detours.

Remove any options which do not apply to your job

Major Incident

A major incident is described as:

- Fatality or notifiable injury real or potential
- Significant property damage, or
- Emergency services (police, fire, etc) require access or control of the site.

Actions

The STMS must immediately conduct the following:

- · stop all activity and traffic movement
- secure the site to prevent (further) injury or damage
- contact the appropriate emergency authorities
- render first aid if competent and able to do so
- notify the RCA representative and / or the engineer
- under the guidance of the officer in charge of the site, reduce effects of TTM on the road or remove the activity if safe to do so
- re-establish TTM and traffic movements when advised by emergency authorities that it is safe to do so
- Comply with any obligation to notify WorkSafe.

Incident

An incident is described as:

- excessive delays real or potential
- minor or non-inquiry accident that has the potential to affect traffic flow
- structural failure of the road.

Actions

The STMS must immediately conduct the following:

- stop all activity and traffic movement if required
- secure the site to prevent the prospect of injury or further damage
- notify the RCA representative and / or the engineer
- STMS to implement a plan to safely remove TTM and to establish normal traffic flow if safe to do so
- re-establish TTM and traffic movements when it is safe to do so and when traffic volumes have reduced.

Note also the requirements for no interference at an accident scene:

In the event of an accident involving serious harm the STMS must ensure that nothing, including TTM equipment, is removed or disturbed and any wreckage article or thing must not be disturbed or interfered with, except to:

- save a life of, prevent harm to or relieve the suffering of any person, or
- make the site safe or to minimise the risk of a further accident; or
- maintain the access of the general public to an essential service or utility, or
- prevent serious damage to or serious loss of property, or
- follow the direction of a constable acting in his or her duties or act with the permission of an inspector.

Other contingencies to be identified by the applicant

(i.e. steel plates to quickly cover excavations)

In the event that any of the following circumstances occur, due to the activity on this site, the STMS will suspend works if;

- · Delays exceed 5 minutes.
- In the event of an accident. (At this time the STMS will follow the instructions provided at the time of training, and when instructed by emergency services).
- Weather conditions are/will adversely affect quality, or safety.
- To allow passage of emergency vehicles.
- That dust nuisance's compromise safety and/or visibility.

The STMS deems any working practices to be unsafe to site staff and/or road users.

Work can recommence only after the all clear has been given by the STMS

Authorisations



Parking		Will controlled street pa	rking be affected?	No	Has approval been granted?	N/A	
restriction(s) alteration authority		As/When required.					
Authorisation to		Will portable traffic sign permanent traffic signa		No	Has approval been granted?	N/A	
work at perma traffic signal s		N/A		'			
Road closure authorisation(s)		Will full carriageway clo			Has approval been granted?	N/A	
		N/A					
Bus stop		Will bus stop(s) be obst	tructed by the activity	'? No	Has approval been granted?	N/A	
relocation(s) - closure(s)	-	N/A					
Authorisation portable traffic		Make, model and description/number					
signals		NZTA compliant?	N/A (delete either Yes or No)				
EED							
Is an EED applicable?	No (delete	either Yes or No)	EED attached?	N/A			

Delay calculations/trial plan to determine potential extent of delays

N/A

Public notification plan

Public notification will be provided as and when required prior to commencement of works in the area.

Public notification plan attached? No (delete either Yes or No)

On-site monitoring plan

Attended (day and/or night)	STMS L2/3P must be present at an attended worksite at all times except during a drive through when the STMS may need to leave the worksite to gain access to the front of the worksite. In this case the STMS may be away from the worksite for up to 30 minutes. When a Shoulder closure is implemented on the L2 Road, the STMS can be in charge of up to four shoulder closed sites. The STMS must be within 30 minutes of the site, while a L2/3 NP has been briefed by the STMS and is present and takes charge of the TTM.
Unattended (day and/or night)	If the work is not completed, all excavations to be backfilled at the end of the day and temporarily reinstated, and all equipment to be removed from site including any TTM.

Method for recording daily site TTM activity (eg CoPTTM on-site record)

- All recording of Staff briefing and Site Checks to be recorded as per CoPTTM on the On-Site Record Sheet & Hazard ID Sheet
- Forms must be filled in by the site STMS or under their instruction a STMS qualified, delegated person.
- Any amendments to the TMP must be noted on the TMP, on the STMS Check Sheet & on Hazard ID by the STMS.

Site safety measures

- The minimum standard of PPE equipment for all staff on site is NZTA compliant as per the NZTA PPE form; high visibility garment, long sleeves, pants, hard hat, safety shoes etc. that comply with safety policy.
- Times on TMP must be adhered too, if this not possible contact must be made by the STMS to the RCA prior to any works taking place, if the site is running late and will not be able to be cleared by the required time a phone call to the RCA must be made in advance of the "last sign up' time on this TMP.
- Temporary Warning Signage to be installed as per TMP.
- Delineated tapers ensuring coned safety zones & distances are as per COPTTM, if these are not possible for any reason they must be
 marked on the TMP by the STMS.

Other information



Site specific	Site specific layout diagrams									
Number Title										
ATG1-1	FOOTPATH - LEVEL 2 - FOOTPATH DIVERTED ONTO THE BERM BEHIND THE WORK SPACE									
ATG1-2	FOOTPATH - LEVEL 2 - FOOTPATH DIVERTED ONTO THE BERM BETWEEN THE WORKING SPACE AND CARRIAGEWAY									
ATG1-4	SHOULDER AND ROADSIDE ACTIVITIES - LEVEL 2 - WORK ON BERM AND/OR FOOTPATH									
ATG1-5	SHOULDER AND ROADSIDE ACTIVITY - LEVEL 2 - WORK ON BERM OR FOOTPATH - PERMANENT SPEED LESS THAN 65KM/H									

Contact details	Contact details										
	Name			24/7 contact number		CoPTTM ID	Qualific	ation	Expiry date		
Principal	Level 18 Chorus Hou 66 Wyndham Street, Au PO Box 6640 Wellesley St Auckl	ckland		0800 600 100							
ТМС	Auckland ** Transport An Auckland Council Organization	AT									
Engineers' representative											
Contractor	VISIONSTREAM Level 5, 8 Hereford Freeman's Bay, Auck PO Box 5100, Wellesley Auckland 1141	St, kland		oanne Okesene 64 275 231 276							
Sub-Contractor											
STMS											
TC											
Others as required											
TMP preparation											
Preparation	Joshua Del Rosario	27/09/2	2017	4	7:	5016	L2/3 NP		16/1/2018		
	Name (STMS qualified)	Dat	te Signature		IE	no.	Qualification		Expiry date		
This TMP meets CoF	PTTM requirements			Numi	ber of o	diagrams a	attached		4		
TMP returned for											
correction (if required)	Name	Dat	te	Signature IL		no.	Qualificatio	n	Expiry date		
Engineer/TMC to cor	nplete following section w	hen approv	val or acc	ceptance requir	ed						
Approved by TMC/engineer	Name	Dat	te	Signature	IE) no.	Qualification	on	Expiry date		
Acceptance by						_					
TMC (only required if TMP approved by	Name	Dat	te	Signature	IE) no.	Qualificatio	on	Expiry date		
Qualifier for engineer or TMC approval											

Approval of this TMP authorises the use of any regulatory signs included in the TMP or attached traffic management diagrams.

This TMP is approved on the following basis:

- 1. To the best of the approving engineer's/TMC's judgment this TMP conforms to the requirements of CoPTTM.
- 2. This plan is approved on the basis that the activity, the location and the road environment have been correctly represented by the applicant. Any inaccuracy in the portrayal of this information is the responsibility of the applicant.
- 3. The TMP provides so far as is reasonably practicable, a safe and fit for purpose TTM system.
- 4. The STMS for the activity is reminded that it is the STMS's duty to postpone, cancel or modify operations due to the adverse traffic, weather or other conditions that affect the safety of this site.



TMP or generic plan reference										
Notification to TMC prior to occupying worksite/Notification completed										
Type of notification to TMC required			Notification completed	Date Time						



TMP or generic plan reference **ON-SITE RECORD** Today's date On-site record must be retained with TMP for 12 months. Location Road names(s): House number/RPs: Suburb: details Working space Person responsible for working space Name Signature Where the STMS/TC is responsible for both the working space and TTM they sign above and in the appropriate TTM box below TTM STMS in charge of TTM Name TTM ID Number Warrant expiry date Signature Time Worksite handover accepted by Name ID Number Warrant expiry date | Signature Time replacement **STMS** Tick to confirm handover briefing completed Delegation Worksite control accepted by ID Number Warrant expiry date | Signature Time TC/STMS-NP Tick to confirm briefing completed **Temporary speed limit** TSL action Street/road name (RPs or street numbers): Date: Time: TSL speed: Length of TSL (m): TSL installed TSL remains in place From: To: TSL removed Street/road name (RPs or street numbers): TSL action Date: Time: TSL speed: Length of TSL (m): TSL installed TSL remains in place TSL removed From: To: TSL speed: Length of TSL (m): Street/road name (RPs or street numbers): TSL action Date: Time: TSL installed TSL remains in place TSL removed From: To: Street/road name (RPs or street numbers): TSL action Date: Time: TSL speed: Length of TSL (m): TSL installed TSL remains in place

TSL removed

From:

To:



TMP or generic plan	reference							
Worksite monite	oring							
TTM to be monitored	d and 2 hourly ir	spections doc	umented below					
Items to be inspec	ted	TTM set-up	2 hourly check	TTM removal				
High-visibility garme	ent worn by all?							
Signs positioned as	per TMP?							
Conflicting signs cov	vered?							
Correct delineation a	as per TMP?							
Lane widths appropr	riate?							
Appropriate positive	TTM used?							
Footpath standards	met?							
Cycle lane standard	s met?							
Traffic flows OK?								
Adequate property a	access?							
Add others as requi	red							
Time inspection co	ompleted:							
Signature:								
Comments:								
Time	Adjustment m	ade and reas	on for change					
			-					



C2.5 LV & Level 1 worksite layout distances

	anent Speed Limit or RCA-designated operating	≤50	60	70	80	90	100
Traffi	c Signs						
Α	Sign Visibility distance (m)	50	60	70	80	90	100
В	Warning Distance (m)	30 or 50*	80	105	120	135	150
С	Sign Spacing (m)	15 or 25*	40	50	60	70	75
Safet	Zones						
D	Longitudinal (m)+	5 or 10*	15	30	45	55	60
	+(Not required on LV roads)	5 01 10	13	30	40	33	00
Е	Lateral (m)+	1	1	1	1	1	1
	+(Optional on LV roads)	'	'	ı	ı	'	'
TAPE	R						
G	Taper Length (m)#	30	50	70	80	90	100
G	LV Roads taper Length (m)#	25	30	35	40	45	50
K	Distance between tapers (m)	40	50	70	80	90	100
Delin	eations Devices		•				
Cone	Cone spacing in taper (m)		2.5	5	5	5	5
Cone	spacing: Working space (m)##	5	5	10	10	10	10

^{*} Larger minimum distances apply where there is more than one lane each way and on all state highways.

LV roads: double the cone spacings alongside working space (eg5 = 10, 10 = 20).

Lane	Lane Widths									
(km/h	1)	30	40	50	60	70	80	90	100	
F	Lane width (m)	2.75	2.75	3.0	3.0	3.25	3.25	3.5	3.5	

Except for delineation device spacings, which are maximum values, the distances specified in the above tables are minimum values.

LV or low risk roads

Working on roads designated as LV/low-risk roads (less than 250vpd – less than 20 vehicles per hour), with clear sight distance to the operation and an operating speed of less than 65km/h:

- Use an appropriate advance warning sign (Static installation) and amber flashing beacon(s) on working vehicle when on the shoulder.
- Consider stop/go or give way control of traffic when activity encroaches onto lane.

If the above requirements cannot be achieved, the operation must be modified to comply with the requirements of a higher risk rating.

⁺ On LV roads the longitudinal and lateral safety zones may be reduced, or eliminated, in order to retain a single lane width. Positive traffic control and an appropriate TSL are to be used.

[#] Where there are road environment constraint (including intersections and commercial accesses) a 10m taper with cones at 1m centres may be used for speeds 50 km/h and under. This does not apply on state highways or where portable traffic light signals, manual traffic controller (Stop/Go) or priority give way are used. On all roads tapers may be reduced to 30m where portable traffic signals, manual traffic controller (Stop/Go) or priority give way are employed.



Level 2LS worksite layout distances

	manent Speed Limit or RCA-designated operating ed (KM/H)	≤40	50	60				
Tra	ffic Signs							
Α	Sign Visibility distance (m)	40	50	60				
В	Warning Distance (m)	40	50	80				
С	Sign Spacing (m)	20	25	40				
Saf	ety Zones							
D	Longitudinal (m)*	10	10	15				
	Lateral (m)							
Е	1. Behind Cones	1	1	1				
	2. Behind Concrete Barrier	0.5	0.5	0.5				
	3. Behind Other Barriers	As recommended by manufactures						
TAI	PER							
G	Taper length (m)#	25*	30	50				
K	Distance between tapers (m)	30	40	50				
Del	ineations Devices	·						
Cor	ne spacing in taper (m)	2.5	2.5	2.5				
Cor	ne spacing: Working space (m)	5	5	5				

^{*} If allowed by the RCA, a **10m taper** (with cones at 1m centres) may be used on roads ≤40 when there are road environment constraints (eg intersections and commercial accesses).

On all roads where shoulder width is less than 2.5m and the activity does not affect the live lane, a **10m shoulder taper** is permitted (with at least 5 cones at no greater than 2.5m centres).

A **taper of 30m** (with cones at 2.5m centres) **must** be used where manual traffic control (stop/go), portable traffic signals or priority give way are employed.

Lane	Widths				
Spee	ed (km/h)	30	40	50	60
F	Lane width (m)	2.75	2.75	3.0	3.0

Except for delineation device spacings, which are maximum values, the distances specified in the above tables are minimum values.

C2.6 Level 2 worksite layout distances

	manent Speed Limit or RCA-designated operating eed (KM/H)	≤50	60	70)	80	90 or 100	
Tra	ffic Signs							
Α	Sign Visibility distance (m)	60/50+	70/60+	80)	100	120	
В	Warning Distance (m)	100/75+	120/90+	14	0	160	200	
С	Sign Spacing (m)	50/35+	60/45+	70)	80	100	
Saf	ety Zones							
D	Longitudinal (m)*	15	20	30)	45	60	
	Lateral (m)							
Е	4. Behind Cones	1	1	1		1	1	
_	5. Behind Concrete Barrier	0.5	0.5	0.9	5	0.5	0.5	
	6. Behind Other Barriers	As recommended by manufactures						
TAI	PER							
Н	Initial taper length per lane**	90/50+	100/60+	12	0	150	180	
Ι	Subsequent taper length per lane	50	60	70)	80	100	
K	Minimum distance between tapers (m)	50	60	70)	80	100	
Del	ineations Devices							
	All tapers	2.5	2.5	2.	5	2.5	2.5	
Spacing	Approaches, between tapers and around the working space	5	5	10)	10	10	
	At merge and diverge points for ramps and slip lanes, intersecting road entry and exit points, and worksite access points	2.5m for 10m either side of a change in alignment			a	a change i	n either side of n alignment	

^{*} A longitudinal safety zone is not required when a barrier completely protects the approach end of the worksite.

⁺ The longer distance is the desirable distance, the shorter distance is the minimum distance required. The longer distances must be used wherever possible. The shorter distances may only be used where there are road environment constraints.

Lan	e Widths		, ,						
(km/	h)	30	40	50	60	70	80	90	100
F	Lane width (m)	2.75	2.75	3.0	3.0	3.25	3.25	3.5	3.5

Except for delineation device spacings, which are maximum values, the distances specified in the above tables are minimum values.

Approach signage, the initial taper and longitudinal safety zone must be based on the permanent speed limit. The layout of the remainder of the worksite, including any subsequent tapers, is based on the TSL.

^{**} Taper length is based on a single lane shift of 3.5m.

STATIC OPERATION

FOOTPATH - LEVEL 2

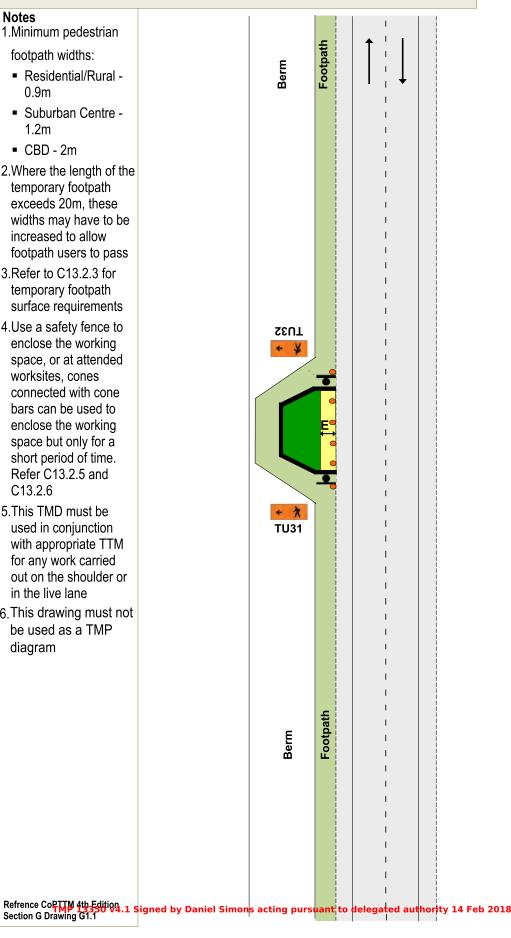
FOOTPATH DIVERTED ONTO THE BERM BEHIND THE WORK SPACE

FIRST PREFERENCE



Notes

- 1.Minimum pedestrian
 - footpath widths:
 - Residential/Rural -0.9m
 - Suburban Centre -1.2m
 - CBD 2m
- 2.Where the length of the temporary footpath exceeds 20m, these widths may have to be increased to allow footpath users to pass
- 3.Refer to C13.2.3 for temporary footpath surface requirements
- 4.Use a safety fence to enclose the working space, or at attended worksites, cones connected with cone bars can be used to enclose the working space but only for a short period of time. Refer C13.2.5 and C13.2.6
- 5.This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane
- 6. This drawing must not be used as a TMP diagram



STATIC OPERATION

FOOTPATH - LEVEL 2 FOOTPATH DIVERTED ONTO THE BERM BETWEEN THE WORKING SPACE AND CARRIAGEWAY SECOND PREFRENCE



Notes 1.Minimum pedestrian Footpath footpath widths: Berm Berm ■ Residential/Rural - 0.9m ■ Suburban Centre - 1.2m ■ CBD - 2m 2.Where the length of the temporary footpath exceeds 20m, these widths may have to be increased to allow footpath users to pass rent 3.Refer to C13.2.3 for X + temporary footpath surface requirements 4.Use a safety fence to enclose the working space. At attended worksites. cones connected with cone bars can be used to enclose the working space. Refer C13.2.5 5.Use barrier or safety fence to delineate the traffic side of the temporary footpath. For temporary barrier requirements. Refer to C18 6.ThisTMD must be used in conjunction with • appropriate TTM for any work carried out on the **TU32** shoulder or in the live lane 7. This drawing must not be used as a TMP diagram Footpath Berm

Refrence CoPTIM 415 Edition4.1 Signed by Daniel Simons acting pursuant to delegated authority 14 Feb 2018 Section G Drawing G1.2

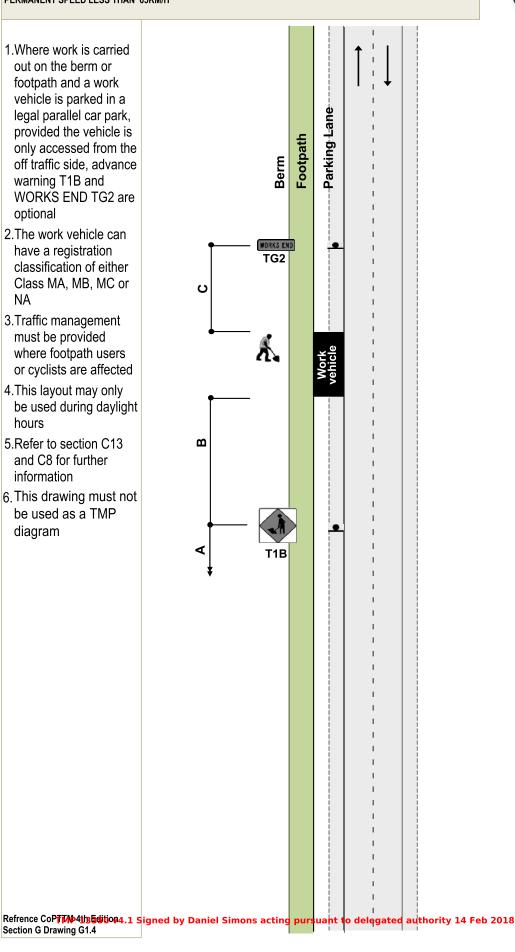
STATIC OPERATION

SHOULDER AND ROADSIDE ACTIVITIES - LEVEL 2 WORK ON BERM AND/OR FOOTPATH

PERMANENT SPEED LESS THAN 65KM/H



- 1.Where work is carried out on the berm or footpath and a work vehicle is parked in a legal parallel car park, provided the vehicle is only accessed from the off traffic side, advance warning T1B and WORKS END TG2 are optional
- 2.The work vehicle can have a registration classification of either Class MA, MB, MC or NA
- 3.Traffic management must be provided where footpath users or cyclists are affected
- 4. This layout may only be used during daylight hours
- 5.Refer to section C13 and C8 for further information
- 6. This drawing must not be used as a TMP diagram



SHOULDER AND ROADSIDE ACTIVITY - LEVEL 2 WORK ON BERM OR FOOTPATH

PERMANENT SPEED LESS THAN 65KM/H

AT

Notes

- 1.A 10m taper is allowed where shoulder width is less than 2.5m
- 2.The taper is a minimum of 5 cones at 2.5m centres
- 3.*For shoulders exceeding 2.5m width, apply the calculation of taper length for lateral shift of less than 3.5m:

<u>W x H</u>

3.5

W = Width of lateral shift

- H = Taper length in metres from the level 2 layout distance table
- 4. This drawing must not be used as a TMP diagram

