TMP Title: Downer - Mountain Road, Lepperton, Taranaki

ATTACHED IS THE PROFORMA WHICH IS SUMMARISED BELOW: Description The Contractor will be forming a site construction access off Manutahi Road. Summary: **Work Space** Mountain Road, Bell Block, Lepperton, Taranaki, New Zealand - TTM from 03A-0000-B/4865 to 03A-0000-B/4565 Address: Workspace Berm, Shoulder **Orientation: Active Closure** Manually Controlled Alternating Flow, Site Access Type(s): Unattended Site Access Closure(s): **Night time** No Night Time Closure Closure(s): **TSL Requested:** Speed: Permanent Speed: 100km/h Attended: 30km/h Unattended: N/A Level 1 **Road Level: Approval requested** Scheduled Start: 01/11/2019 01/11/2019 to 01/02/2020 from Work Times: 7:00 to 18:00 **Expected Duration:** Bounty Senadeera 027 554 8404 **TMP Applicant:** Downei bounty.senadeera@downer.co.nz **Project Manager:** Contractor:1 Tim Haylock +64226572716 Downe Tim.Haylock@downer.co.nz Site Contact: **On Site Traffic** TRAFFIC Braden Brooks 027 536 4883 SAFE NZ **Management:** braden.brooks@trafficsafe.co.nz Neville Boag 0274710823 TMC:1 neville.boag@wspopus.co.nz Greig Bosley 0275848358 TMC:2 greig.bosley@npdc.govt.nz **APPROVED** CAR 1465065 Greig Bosley STMS Number 48770 New Plymouth District Council BG

30 July 2019

RCA consent (eg RCA contract refe	CAR/WAI	P) and/or								
TRAFFIC MAN	AGEME	NT PLAN (T	MP) — FULL FOF	RM						
Use this form for co management (COP	mplex activ TTM), sect	ities. Refer to th ion E, appendix.	e NZ Transport Agen A for a guide on how	cy's Traffi to comple	ic control ete each fi	devices n eld.	nanual,	part 8 Code prac	tice for temporary tr	affic
TMP Reference:	2307190	02								
Organisations					-					
Contractor (Work	ing Space):			Principa	al (Client	:):			
Down Relationships creat		Project M Tim Hay Tim.Hay	lanager: ock +64226572716 ock@downer.co.nz			Te families 184	er o Palinota DUTH DISTRICT	r council Dus Dus	tin Courage 02754225 stin.Courage@npdc.gov	47 t.nz
Contractor (TTM) TRAFFIC SAFE N	>>>	Braden E braden.b	Brooks 027 536 4883 rooks@trafficsafe.co.nz		RCA:		RANSPORT	ragency Nev nevi	ille Boag 0274710823 ille.boag@wspopus.co.	nz
	Ngleon H DISTRICT COUNCIL	Greig Bo greig.bos	sley0275848358 sley@npdc.govt.nz							
	I	Road names a	and suburb	Ho (/	ouse no./ From and	RPs to)	F	Road level	Permanent speed	AADT
Location details and	Mountain	Road, Bell Block New Zea	, Lepperton, Taranał Iland	ii, 03A 03A	\-0000-В/₄ А-0000-В/	4865 - 4565		Level 1	100km/h	3221
characteristics		Manutahi Road	l, Lepperton	-	MANUTAHI ROAD/4090 - MANUTAHI ROAD/4730		Level 1	100km/h	1400	
Traffic details (main route)	Image: main route) AADT = 3221 Peak hourly flows = 322									
Description of v	vork activ	vity								
The Contractor w with imported ma New water reserv ancillary works.	ill be formi terial to ba roir to be c	ing a site const ackfill with. This constructed on t	ruction access off N will take less than a he site using a com	lanutahi a week. bination	Road. Th	ney will ha	ave a c -situ co	digger there to re	emove the topsoil, k, services installa	and a truck tion and
Planned work p	rogramm	e								
S	Start date	01/Nov/2019	Tim	e 7:	:00	End da	ate (01/Feb/2020	Time	18:00
Consider signifi	icant	Manual Traffic	c Control will be inst	alled to c	carry out t	heir plan	ned w	ork as per work	scope.	
 stages, for example road closure detours 	n ple: es	Please see o	lesign TMD 1.	e used fo	or constru	ction site	acces	SS.		
 no activity p 	eriods.	Disease	Lasian TMD 2							
Alternative date	s if	A time of the time of time of the tim	contingency within t	ne valid c	date rang	e has be	en allo	ocated to allow f	or delays	
Road aspects a	ffected (c	l lelete either Y	es or No to show	which as	spects a	re affect	ed)			
Pedestrians affecte	d?	No	Property access affe	cted?		Yes	•	Traffic lanes affect	ted?	Yes
Cyclists affected?		No	Restricted parking a	ffected?		No		Delays or queuing	j likely?	Yes
Proposed traffic	c manage	ment method	s AP	PRO	VED					
On arrival on site and following the safety and hazard briefing the STMS will instruct the crew to install the TTM equipment following the approved site diagram and in the following order ber 48770 a. The first sign erected must be the advance warring sign.										

Installation (includes parking of plant and materials storage)	 b. Remaining signs are placed in ord loop on a single direction carriagewa continued until the sign network is co c. Tapers and delineation devices m d. Before any construction equipmer directions including all side roads. That: the restriction to traffic flow is reaso that: the restriction to traffic flow is reaso the signs and delineation devices a weather conditions. All plant and material will either be w If MTC site required, once the signag the remainder of the delineation is plant Mobile Operation to be used to instation. Refer to Design Number M4 and M 	der from the advance warning sign u ay or simply turns around on a bidire omplete. hust only be placed once all signs h at or materials are brought onto the v his check must confirm that the work nable give clear messages to road users, are securely erected and will remain ithin the working space for daily use ge has been placed the manual traffi aced around the working space. all and remove all TTM Equipment. 5.	ntil the works end sign is reached. The vehicle then ma actional carriageway to make the next run. This process ave been installed. vorksite a drive through check of the worksite must be r site is safe & to the minimum standard shown in the TM and in their correct position under the expected traffic volur or delivered to site on an 'as required' basis. c controllers to be placed to assist with controlling traffic	akes a is made in all P and mes and c flow as						
Attended (day)	As the site will be attended at all time and maintain or make changes as ne site record" (attached). The time of installation and placemen The STMS or delegated TC will also safety of cyclists passing through the The MTC operators will maintain com site traffic or plant requirements for m	es when equipment is on the carriag ecessary for the ongoing safety of th nt of the TSL signage is to be docun monitor the MTC operation for comp e controls. tact with each other and the operator novement through and into the closu	eway the STMS or delegated TC will monitor the TTM re e site. All site checks and or changes to be recorded or nented in the 'on site record'. betence, timings of traffic flow through the site and spec s within the closure at all times in case of emergency a re.	egularly on the "on ifically the nd specific						
Attended (night)	Night works are not planned for this activity.									
Unattended (day)	The STMS/TC in charge of setting the unattended site must ensure that all open trenches/excavations are fenced, plated or backfilled, and that plant, equipment or materials are located at least 5m from the live lane wherever possible. Before leaving the site the STMS/TC must: - Reduce the size of the worksite as much as possible - Sweep any loose material from the sealed road surface - Check that all signs are ballasted and positioned correctly - Check that all cones are clean and positioned correctly									
Unattended (night)	The STMS/TC in charge of setti plated or backfilled, and that pla Before leaving the site the STM - Reduce the size of the worksit - Sweep any loose material fror - Check that all signs are ballas - Check that all cones are clean	ing the unattended site must en ant, equipment or materials are S/TC must: e as much as possible n the sealed road surface ted and positioned correctly and positioned correctly	sure that all open trenches/excavations are fenc located at least 5m from the live lane wherever p	ed, possible.						
	A detour will not be required for this	activity								
Detour route	Does detour route go into anoth	ner RCA's roading network?		No						
	Note: Confirmation of acceptar	nce from affected RCA must be	submitted prior to occupying the site.							
Removal	The removal of TTM measures must be The traffic truck will be used for the re The last sign of removal will be the ac The STMS or delegated TC to make	be in the reverse order of establish moval and the amber flashing beace dvance warning. a final check and record of the clear	nent, i.e. reverse order for removal as per (c), (b), (a). on will be used at all times. ed site before leaving at the end of the day.							
	The MTC paddle operators to assist with controlling the flow of traffic when equipment is removed from the carriageway. The time of removal of the TSL signage is to be documented in the 'on site record'.									
	Mobile Operation to be used to instal	I and remove all TTM Equipment.								
	- Refer to Design Number M4 and M5	APPROVED CAR 1465065 Greig Bosley								
Proposed TSLs (see TS	L decision matrix for guidance)	STMS Number 48770 New Plymouth District Council								
	4	Gry Bly								

Section E, Appendix A: Traffic management plans 30 July 2019 Page 2

	TSL details as required Approval of Temporary Speed Limits (TSL) are in terms of Section 6 of Land Transport Rule: Setting of Speed Limits 201 Rule 54001/2017 (List speed, length and location)	7,	Times (From and to)	Dates (Start and finish)	Diagram ref. no.s (Layout drawings or traffic management diagrams)				
Attended day/night	Manutahi Road, Lepperton, New Zealand : A temporary maximum speed limit of 30km/h is hereby fixed for motor vehicles travelling over the length of approximately 280 situated between MANUTAHI ROAD/4300 House no/RP and MANUTAHI ROAD/4580 House no/RP on Manutahi Road, Lepperton, New Zealand	7:00 pr m	- 18:00	01 November, 2019 to 01 February, 2020	See design TMD 1				
Unattended day/night	Not Required	Not I	Required	Not Required	Not Required				
TSL Duration	Will the TSL be required for longer than twelve months? If yes, attach the completed checklist from section I-18: Guidan Processes for TSLs to this TMP	ce on TN	n TMP Monitoring No						
Positive traffic manager	nent measures								
Side friction using cones Cones placed down the centre of the road providing side friction from the TSL to derestriction 2 x cones placed at the end of longitudinal to define safety zone									
Contingency plans									
Generic contingencies f	or: Major Incident		Actions						
 major incidents incidents pre planed detour Remove any options which do not apply to your job 	 major incidents incidents incidents pre planed detours. Fatality or notifiable injury - real or potential Significant property damage, or Emergency services (police, fire, etc) require access or control of the site. The STMS/ in charge person must immediately following: stop all activity and traffic movement secure the site to prevent (further) injury or date contact the appropriate emergency authorities render first aid if competent and able to do so on the output to your job 								
	Incident • excessive delays - real or potential • minor or non-inquiry accident that has the potential to af traffic flow • Structural failure of the road.	fect	Actions The STMS/in charge following: • stop all activity a • secure the site to damage • notify the RCA re • STMS to implement establish normal tr • re-establish TTM and when traffic vo	ge person must immedia nd traffic movement if rec o prevent the prospect of presentative and / or the ent a plan to safely remo affic flow if safe to do so and traffic movements w plumes have reduced.	tely conduct the juired injury or further engineer ve TTM and to hen it is safe to do so				
	Detour		Actions						
Traffic control devices ma	Note also the requirements for no interference at an accident scene: 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 of her duties or act with the permission of an inspector. New Plymouth District Council								
	30 July 2019 Page 3								

Downer - Mountain Road, Lepperton, Taranaki | 230719002

Other contingencies to be identified by the applicant (i.e. steel plates to quickly cover excavations)	on site TTM affic flow in	to be used to case of unfor	protect victim(s), protect eseen circumstance affec	the accident sce ting the carriagev	ene, give access to en way.	nergency services if require	d or control		
Authorisations									
Parking restriction(s)	Will cont	rolled street	parking be affected?	No	Has approval been	granted?			
alteration authority	Not Requ	ired			-				
Authorisation to work at	Will porta permane	able traffic si nt traffic sigr	gnals be used or nals be changed?	No	Has approval been	granted?			
permanent dante signal sites	Not Requ	ired							
Road closure authorisation(s)	Will full of more that stipulated	carriageway o n 5 minutes d time)?	closure continue for (or other RCA	No	Has approval been	granted?			
	Not Requ	ired							
Bus stop relocation(s) –	Will bus activity?	stop(s) be ob	ostructed by the	No	Has approval been	granted?			
Not Required									
Authorisation to use portable traffic Make, model and description/number Not Required									
signals	IS NZTA compliant?								
EED						- 			
Is an EED applicable?		No	EED attached?	Not Required					
Delay calculations/trial plan to	determine	e potential ex	tent of delays						
AADT= 3221 Divide by 2 lanes of up to 1 vehicles (est. 10m), a minutes.	= 1610 divi and subseq	de by 8 hours uent delay tir	s to estimate peak flow = nes of up to 0 minutes:se	322 /hr. If we app conds. Therefore	bly a calculation test of queue lengths are ma	5 minute delays resulting in aintainable and delays will b	queue lengths e less than 5		
Public notification plan									
Public notification plan attach	ed?	No							
On-site monitoring plan									
Attended (day and/or night)	The atten documen	ded site shal ted on the at	l be monitored (self audite ached form	ed) by the STMS	or delegated TC a mir	nimum of 2 hourly, which will	be		
Unattended (day and/or night)	Where a equipment	closure is rec nt remains in	quired to be in place for no place as per the approve	o activity periods d closure.	the STMS will visit the	e site(s) once every 24 hour	s to check the		
Method for recording daily sit	e TTM activ	iity (eg CoPT	TM on-site record)						
As per CoPTTM on site record	As per CoPTTM on site record								
Site safety measures	Site safety measures								
All persons traveling on the bar High Viz uniform must be wom Hard hats and safety eye wear 2.5KG Fire Extinguishers and F Sand bags from the Traffic Con	All persons traveling on the back of a moving Traffic Control Truck MUST wear full harnesses attached to sliding lanyards High Viz uniform must be wom by Traffic Safe people at all times. Hard hats and safety eye wear are to be wom whenever outside of a vehicle 2.5KG Fire Extinguishers and First Aid Kits are to be stowed in the Traffic Control Truck available for all people at all times Sand bags from the Traffic Control Truck shall be used to contain toxic spills if needed.								
Other information			Greig Bosley STMS Number 48	3770					
			New Plymouth D	istrict Council					
Traffic control devices manual pa	rt 8 CoPTTI	М	Section E, Appendix A:	Traffic manageme	ent plans	Edition 4	, November 2018		

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Site specific layout diagrams

Number | Title

M4 - L1 - Mobile Operation - Within Edgeline - 65km over.pdf M5 - L1 - Mobile Operation - In Live Lane - 65km over.pdf TMD 1 - MTC.pdf TMD 2 - Site Access.pdf

Contact details										
		Name		24/7 c nu	contact mber	C	oPTTM ID	Qualifica	ation	Expiry date
Principal	Nev	v Plymouth District Council, D	ustin Courage	027542254	17					
TMC	NZI	A Taranaki, Neville Boag		027471082	23	4742	22	STMS L1		16/11/2021
	Nev	v Plymouth District Council, G	ireig Bosley	02758483	58					
Contractor	Dov	vner, Tim Haylock		+64226572716						
	Traf	fic Safe NZ Ltd, Braden Brool	ks	027 536 4	883	1048	868	L1 STMS		17/08/2020
	Traf	fic Safe NZ Ltd, Badinlee Mur	nro-Smith	027 536 4	883	1000	061	L1 STMS		26/10/2021
	Traffic Safe NZ Ltd, David Antill Traffic Safe NZ Ltd, Eric Ayala				291	8364	43	L1 STMS		24/05/2021
	fic Safe NZ Ltd, Eric Ayala		027 226 3	787	115	765	L1 STMS		22/06/2021	
	n	027 202 5	376	1143	367	L1 STMS		16/04/2021		
	Traf	fic Safe NZ Ltd, James Bovai	rd	027 240 0	913	1226	671	L1 STMS		21/03/2022
	Traf	fic Safe NZ Ltd, James mcko	у	02734959	16					
STMS	Traf	fic Safe NZ Ltd, James McKo	у			1193	302	L1 STMS		09/11/2021
	Traf	fic Safe NZ Ltd, Jessica Horto	on	027 300 5	935	123	184	L1 STMS		21/03/2022
	Traf	fic Safe NZ Ltd, John Laurie		027 303 2	674	9580	00	STMS L1		16/05/2022
	Traf	fic Safe NZ Ltd, Kaleb Hitchco	ock	022 171 4	946	7848	80	L1 STMS		04/07/2022
	Traf	Traffic Safe NZ Ltd, Phillippa Spring				7597	73	L1 STMS		14/06/2020
	Traf	Traffic Safe NZ Ltd, Richard (Rjay) Jansen			946	8679	93	L1 STMS		30/11/2020
	Traf	fic Safe NZ Ltd, Ricky Penhal	I	027 212 2	576	120637		L1 STMS		31/01/2022
	Traf	fic Safe NZ Ltd, Steven Beldh	nam			1028	897	L1 STMS		29/06/2020
тс										
TMP Preparation										
Preparation	Bour	ity Senadeera	30/07/2	2019	LO_	_	105956	STMS L1		21/03/2022
ĺ	Name	(STMS qualified)	Date)	Signature	Э	ID no.	Qualificat	ion	Expiry date
This TMP meets CoP	TM re	quirements	Number of dia	agrams atta	ched		4			
TMP returned for										
(if required)	Date		Signature		ID no.	Qualification		Expiry date		
Engineer/TMC to con	nplete	following section when app	roval or accept	ance requir	ed					
Approved		Neville Boag	Greig Bos STMS Nui	nber 4877	0					
by TMC/engineer	INew Plyn	Houth Distr	ict Council							
Traffic control devices r	nanual	part 8 CoPTTM	Section E, Appe 30 July 20	eńdix A: Trafi ₀₁₉ Page 5	fic manageme 5	ent pla	ns		Editio	n 4, November 2018

Indexer bit PMC Name Date Signature ID no. Qualification Expiry date Acceptance by TMC (only required if TMP approved by engineer) Name Date Signature ID no. Qualification Expiry date Qualifier for engineer or TMC approved Name Date Signature ID no. Qualification Expiry date Qualifier for engineer or TMC approved 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: I. 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 or 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. Notification to TMC required Date Notification completed Image: Date	(delete ene)										
Acceptance by TMC (only required if TMP approved by engineer) Name Date Signature ID no. Qualification 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. ID no. Qualification Expiry date Approval of this TMP authorises the use of any regulatory signs included in the TMP or attached traffic management diagrams. Intervent of the approval on the following basis: Intervent of the approval on the basis that the activity, the location and the road environment have been correctly represented by the applicant. Any inaccuracy in the portaval of this information is the responsibility of the applicant. Any inaccuracy in the applicant. 3. The TMP provides so far as is reasonably practicable, a safe and fit for purpose TIM system. A. 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. Notification to TMC prior to occupying worksite/Notification completed Type of notification to TMC required Notification completed Date Date Time Time Time		Name	Date	Signature	ID no.	Qualification	Expiry date				
Output Name Date Signature ID no. Qualification 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. Image: Comparison of the temperature of the temper	Acceptance by TMC										
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Type of notification to TMC required Pate Notification completed Time Date Time	Notification to TMC prior to occupying worksite/Notification completed										
Time	Type of notification to TMC requ	ired		Notification comm	bleted	Date					
		pe of notification to Tivic required Time									



TMP or generic plan refer	ence									
ON-SITE RECORD On-site record must	be retained with TMP for 12 months			Today's date						
Location details	Road Names(s):		House nun	nber/RPs:	Suburb:					
Working Space										
Person										
responsible for	Name		Signature							
working space	Where the STMS/TC is responsible for both	the working s	pace and TT	M they sign above and	in the appro	opriate TTM bo	(below			
ттм										
STMS in charge of										
TTM	Name	TTM ID N	umber	Warrant expiry date	Signature	Time				
Worksite handover										
replacement STMS	Name	ID Numbe	r	Warrant expiry date	Signature	Time				
	Tick to confirm handover briefing completed									
Delegation		_		ſ		r				
Worksite control		<u> </u>								
TC/STMS-NP	Name	ID Numbe	r	Warrant expiry date	Signature	Time				
	Tick to confirm briefing completed									
Temporary Speed Li	mit	1		1			1			
Street/road name (RP	's or street numbers):	TSL action	า	Date:	Time:	TSL speed:	Lenght of TSL (m):			
		TSL instal	led							
		TSL remain	ins in place							
From:	То:	TSL remo	ved							
Street/road name (RF	's or street numbers):	TSL action	า	Date:	Time:	TSL speed:	Lenght of TSL (m):			
		TSL instal	led							
		TSL remai	ins in place							
From:	To:	TSL remo	ved			1				
Street/road name (RF	's or street numbers):	TSL action	า	Date:	Time:	TSL speed:	Lenght of TSL (m):			
		TSL instal	led							
		TSL remain	ins in place			1				
From:	To:	TSL remo	ved							
Street/road name (RF	's or street numbers):	TSL action	า	Date:	Time:	TSL speed:	Lenght of TSL (m):			
		TSL instal	led							
		TSL remain	ins in place			1				
From:	To:	TSL remo	ved							
	A CAR Grei STM New 30 J	PPRC 1465065 g Bosley S Number 4 Plymouth E	8770 District Cour	ncil						

TMP or generic plan reference							
Worksite Monitoring							
TTM to be monitored and 2 hourly inspections docum	ented below.						
Items to be inspected	TTM Set-up	2 hourly check	TTM removal				
High-visibility garment worn by all?							
Signs positioned as per TTM?							
Conflicting signs covered?							
Correct delineation as per TTM?							
Lane widths appropriate?							
Appropriate positive TTM used?							
Footpath standards met?							
Cycle lane standards met?							
Traffic flows OK?							
Adequate property access?							
Add others as required							
Time inspection completed:							
Signature:							
Comments:							
Time	Adjustment n	nade and reasor	n for change				



NZ Transport Agency Minimum Requirements - Workplace Personal Protective Equipment

Work done to investigate, construct and maintain the State Highway network carries inherent risks. All practical steps should be taken to ensure that all NZTA employees, all suppliers (consultants, contractors, subcontractors) and all visitors are protected from hazards (through the use of controls that eliminate, isolate or minimise their exposure). Regardless Personal Protection Equipment (PPE) remains a necessary mitigation measure in most work types, and is designed to compliment other controls.

This table sets out the main situations, by exposure type, where the NZTA requires PPE to be provided by employers and used by employees, suppliers and visitors.

Exposure Type	Activity/ Place of Work	Safety Eyewear	Safety Footwear	High Visibility Clothing	Long Sleeves & Long	Safety Helmet	Sunhat	Gloves	Hearing Protection	Comments
				_	Pants					
1	On a construction / repair site on a State Highway	~	~	~	~	~	-	Carried and worn when manual handling	Available and used when working in close proximity to noisy equipment and in all underground environments.	Includes significant repair work that involves plant use eg re-sealing, rehabilitation, major drainage activities.
2	Simple maintenance activities on a State Highway	Carried	~	~	~	R/A	~	Carried and worn when handling cutting / grinding power tools and hazardous materials	Available and used when working in close proximity to noisy equipment.	Activities such as mowing, marker post cleaning, litter collection, etc.
3	In a vehicle or plant on a construction / repair site on a State Highway	Carried	~	✓	~	Carried	-	Carried	Carried	
4	Working outside a vehicle on the State Highway Network	-	~	✓	~	R/A	~	R/A	R/A	This is for Inspection work only, not on a Construction or maintenance site. Includes private property and Crown land where construction of SH infrastructure is planned. For example during design of a new Greenfield site, if mobile plant (eg excavator) is present or if personnel are within 20m of fixed plant (eg drilling rig), then treat as a construction site (exposure type 1).
5	Visitors to a construction site / community open days / Sod Turnings, Ribbon Cuttings, Site Blessings	R/A	R/A	R/A	R/A	R/A	R/A	R/A	R/A	Risks to be assessed depending on number of visitors and where they will be on site. In general small groups to be treated as exposure type 1, 2 or 3 but large groups (for example 50 visitors on a bus), could be treated based on a risk assessment. Ie. it is not likely to be practical to require large numbers of people to wear PPE so all risks are mitigated by only allowing visitors access to areas where there are no hazards.
6	In a vehicle on the State Highway Network. In an office environment	-	-	-	-	-	-	-	-	This includes being outside vehicle for routine stops whilst travelling. Any inspection / physical work undertaken is covered by exposure types 3 & 4. Includes in the site office, public meeting venues, private (landowners) residence etc.

Key:

 \checkmark

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= PPE Requirement.

= No PPE requirement.

Carried = PPE required to be readily available at all times and used where appropriate.

R/A = Risk Assessment to be completed.

Note:

- 1. These minimum requirements apply to all NZTA staff, suppliers and visitors when they are on official work related duties.
- Any departure from these minimum requirements will need a documented, task specific, Risk Assessment justifying the exemption and approved by a nominated individual within that employer's organisation.
- 3. Other types of PPE may be required in certain circumstances in addition e.g. waterproofs, restraint harnesses, safety gumboots, sun shade cover for Safety helmet, dust masks, respirators etc.
- 4. These minimum requirements may be exceeded by the requirements of a particular company, place of work or activity.

	Safety Eyewear	Safety Footwear	High Visibility Clothing	Long Sleeves & Long Pants	Safety Helmet	Sunhat	Gloves	Hearing Protection
Definition of particular PPE requirement	Impact resistance eyewear, tinted if required. Not operating plant with closed operator enclosure. Full face shields to be considered for certain activities.	Ankle length lace-up with steel toe, sole and heel, to comply with appropriate standard. Plant operators may use slip on boots to allow ankle flexibility.	Complying with COPTTM. Consideration should be given to use of 3 part pull apart vests to reduce snagging hazard	Suitable for operation, cognisance taken of any extreme hot / cold environments. Flame proof overalls to be worn as appropriate	Complying to appropriate standard, with provision for sun protection as necessary	Any suitable hat that provides sun protection. Outside in summer on sunny days. Not when driving vehicles, trucks and plant with covered cabs.	Suitable for specific operation	Earplugs or ear muffs in accordance with industry standards
Risks that PPE will partially or wholly mitigate	Physical injury to eye; dust; dazzle causing internal eye injury or failure to see hazards.	Physical Injury through slips, trips, falls; falling materials.	Injury from moving Plant / vehicles.	Some physical injuries, cuts & scrapes. Minimisation of health risks from excessive sun exposure.	Injury from falling objects /moving plant /protruding hazards	Minimisation of health risks from excessive sun exposure	Physical injury from sharp or heavy objects. Loss of grip causing fall.	Long term hearing loss

COMBINED LEVEL LV & LEVEL 1 LAYOUT DISTANCES TABLE

Per des	manent speed limit or RCA- ignated operating speed (km/h)	≤50	60	70	80	90	100
Tra	ffic signs						
A	Sign visibility distance (m)	50	60	70	80	90	100
В	Warning distance (m)	50 or 30*	80	105	120	135	150
С	Sign spacing (m)	25 or 15*	40	50	60	70	75
Safe	ety zones						
D	Longitudinal (m)+	10 or 5*	15	30	45	55	60
E	Lateral (m)+	1	1	1	1	1	1
	Lateral behind barrier installation	A	s specifie	d by the In	stallation	Designer	
Тар	ers						
G	Taper length (m)#	30	50	70	80	90	100
G	LV roads taper length (m)#	25	30	35	40	45	50
К	Distance between tapers (m)	40	50	70	80	90	100
Del	ineation devices						
Cor	e spacing in taper (m)	2.5	2.5	5	5	5	5
Cor	e spacing: Working space (m)##	5	5	10	10	10	10

* Larger minimum distances apply on all state highways and also on all multi-lane roads. The smaller minimum distances may be applied on other roads to accommodate road environment constraints.

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

- # 1. On non-state highways with speeds 50km/h or less, a 10m taper (with cones at 1m centres) may be used when there are road environment constraints (eg intersections and commercial accesses).
 - 2. On all roads where the 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).
 - 3. 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.

^{##} LV roads: double the cone spacing alongside working space (eg 5 = 10, 10 = 20).

Lan	Lane widths (based on permanent speed or TSL if applied)											
Spe	ed (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.

LV/low-risk roads (less than 250vpd - less than 20 vehicles per hour)

When on the shoulder:

- If CSD **not** available: Advance warning sign and base to be installed with sign visibility distance and warning distance in place
- *If CSD available:* Advance warning sign may be attached to the rear of a work vehicle which has an amber flashing beacon(s) and is visible to approaching road users from the rear.

When the activity encroaches onto a live lane consider alternating flow controls.

If the above requirements cannot be achieved, the operation must be modified to comply with the appropriate level LV or level 1 requirements.



PREP + WI DEN TO ALLOW SMOOTH, EASY TRUCK ALCESS NEED TMP to drop a lane to dy out and compact AP4D for access ramp













