

# Works Access Permit

Registration Number: **R910344**  
Utility Reference: **Generic Car - Minor Excavation**



## 1. Details of Proposed Work

Activity: Pot Holing, Open Trenching, Other (Specify Detail), Hand Digging  
Address: 838 Fergusson Drive, Upper Hutt Central, Upper Hutt, 5218  
Location in road: Carriageway, Footpath, Berm, Nature Strip  
WAP valid period: 01 January 2023 to 31 December 2023

## 2. The Parties

Upper Hutt City Council being a body corporate in accordance with the Local Government Act 2002 ('the Corridor Manager;')

Wellington Water Alliance being an approved Utility Operator in accordance with submitting a request for access in accordance with that act;

Wellington Water Alliance 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').

## 3. Attachments

Attachment 1 being the Schedule of Reasonable Conditions.  
Attachment 2 being plan TMP showing the agreed service location.

## 4. Background

- (a) The Utility Operator wishes to carry out the works stated on CAR Number R910344 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:
- (d) In the case of State highways this Works Access Permit serves as the approvals required under sections 51 and 78 of the Government Roding Powers Act.

Signed 

Date 26/01/2023

Eugene Grant acting pursuant to delegated authority.

### FOR Corridor Manager APPROVAL USE ONLY

Time Spent Processing:

<input type="checkbox"/>	Approved Contractor	<input type="checkbox"/>	Route Plan Submitted	<input checked="" type="checkbox"/>	TMP Submitted	<input type="checkbox"/>	Stockpiling Arrangements
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# CONDITIONS

## General Conditions

## Local Conditions

1. Refer to THE NATIONAL CODE OF PRACTICE for UTILITY OPERATORS ACCESS to TRANSPORT CORRIDORS and THE HUTT VALLEY LOCAL CONDITIONS

## CAR WCC Full Scope of Works Utility Utility

Company	Wellington Water
Contract Manager	Tim Harty
Phone	021 451 104
Email	<a href="mailto:Tim.harty@wellingtonwater.co.nz">Tim.harty@wellingtonwater.co.nz</a>

### Contractor

Company	Wellington Water alliance
Contract Manager	Valitha Roos
Phone	021 510 923
Email	<a href="mailto:Valitha.roos@wellingtonwater.co.nz">Valitha.roos@wellingtonwater.co.nz</a>

### Sub Contractor

Company	
Name	
Phone	
Email	

Type of Work (Tick)					Minor	X
Location Road (Tick)	Carriageway	X	Footpath	X	Berm	X

### Work Location

Physical Address	Various Locations / Streets within Upper Hutt Region
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### Work Programme

Start Date	01/01/2023	Completion Date	31/12/2023
Duration of Work	24/7	Day / Night	365

### Hours of work

Start Time		Finish Time	
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### Description of Activity

**P3/P4 Minor excavation works including reinstatement not needing site specific:**  
**Note: All project works or other work not covered under the Generic Tmp / Tmd will need site specific.**  
**Confirmation is required from RCA to see if Generic covers main arterial roads or suburban shopping areas.**

**Only approved contractors listed on Tmp are covered under Generic Car.**  
**ALL CONTRACTORS ARE TO NOTIFY THE RCA PRIOR TO CARRY OUT THEIR WORK ACTIVITY.**

- All work carried out may involve having 1 to 2man onsite including sub-contractors.
- All digging works can involve but not limited to hand digging or using a digger / hydro vac when required.
- Any works that are not reinstated will follow the reinstatement requirements.

#### **Repairs:**

- Leaks – 3 Water network leaks which covers repairs / replacement of council assets.
- Repair / replacement of Tobies / meters / hydrants / valves /potable services / mains that can be repaired on the same day.
- Repair / Replace Manhole frame and centres.
- Repair / Replace Stormwater and Wastewater laterals.
- Pothole to avoid damage to buried utility lines.

**Crews and Sub contractors must adhere to the following:**

1. Ensure proper traffic and pedestrian management is in place.
2. Set up correct Tmd to suit the work site.
3. Complete a separate RCP form for every excavation.
4. Safety induction is carried out as per RCP process
5. Ensure safety is adhere to at all times.
6. Ensure all efforts are made to minimise disruption to residents, business and pedestrians.
7. Make sure relevant documents are onsite (utility plans).
8. Mark out utility / council assets to carry out work above.
9. Provide before photos showing a wide street view of location.
10. Photo of repairs.
11. Photo after the repair and how the site was left.
12. Clear notes of what was repaired.
13. Where possible reinstatement will be completed after excavation.
14. Site is packed up and left clean and tidy.

**Work Vehicles onsite at various stages of work but not limited to:**

**Standard work crew:**

1 to 2 service vehicles equipped with beacons onsite along with any small plant and equipment to carry out maintenance work. Crews to set up own Tmd.

**Service crews are equipped to set up the following Tmd's only.**

**Traffic management will be required if you do not carry correct signage.**

CC1	F2.1
CC2	F2.2
CC3	F2.5
CC4	F2.6
CC5	F2.7
CC7	J2.16A
CC8	
CC9	
CC10	
CC11	
CC12	

**Sub-contractors are to follow the Tmd criteria above, or if you do not have correct signage to set up own Tmd. Any Tmd not listed above will require external traffic management.**

**Extended crew when needed:**

- Hydro Vac Truck / Digger / Jet Flusher / Mini combo maybe utilised to assist with repairing leaks.
- Traffic management vehicles if unable to set up own traffic.
- Reinstatement vehicles / plant where possible.

**Reinstatement:**

**Note: all work not covered under the Generic Tmp / Tmd will need site specific.**

**Confirmation is required from RCA to see if Generic covers main arterial roads or suburban shopping areas.**

- Reinstatement must be completed as per National code requirements.
- Compaction test must be supplied as per National code requirements.
- If work is postponed or cancelled; works will go ahead the next safe and practical date possible weather permitting.
- Uneven surface and speed restriction signage will need to be installed and the site will need to be monitored once within each 24-hour period and recorded on the site record and monitoring form.
- Sites left unattended must be fenced off as per National code requirements.
- If for any reason a site has not been temp sealed we must advise the Corridor Manager ASAP.
- **Temporary surface will need to be installed within one working day and full reinstatement to be completed as soon as possible weather permitting.**

**Work Vehicles onsite at various stages of work but not limited to:**

- 1 to 2 service vehicles equipped with beacons onsite along with any small plant and equipment to complete the work.
- Concrete truck / Hot Box Truck along with any small plant and equipment to complete the work.
- Digger / Roller.
- Traffic management vehicles if unable to set up own traffic.

**WHEN ARE SITE SPECIFIC TMP'S NEEDED:**

**Site Specific TMP required depending on the work activities and impact.**

**Works include sewer blocks / maintenance repairs on the wastewater network that require entry from a manhole at an intersection and/or in the live lane or excavations in the carriageway / live lane, burst water main/water leaks on the network in the carriageway / intersections that will impact traffic, hydrant / valve replacements in the carriageway that will impact traffic, water / wastewater lateral replacements that involve trenching across the carriageway.**

**This also includes works on the Stormwater network that may have an impact on traffic and project work taking more than 1 day.**

**ANY STATE HIGHWAY WORKS WILL BE AT THE DISCRETION OF CAPITAL JOURNEYS TMC  
ALL WORKS APPROVED BY CAPITAL JOURNEYS TMC MUST THEN BE NOTIFIED TO THE  
TRAFFIC OPERATIONS CENTRE (TOC) PRIOR TO COMMENCEMENT AND POST WORK  
WORKS ARE TO BE PLACED ON THE WEEKLY ROAD WORKS REPORT  
ALL COMPLETED WORKS MUST COMPLY TO WAP CONDITIONS AND ARE TO BE  
REINSTATED ACCORDING TO NZTA STANDARDS**

**Quantities of proposed Work (use meters, items, hours and minutes to indicate);**

Length of trenching		Number of Cabinets/pedestals effected	
Length of Horizontal/Vertical Drilling		Number of Structures effected (fully explain in description of work)	
Number of holes		Number of assets removed	
Number of Chamber/s effected		Duration of Road / Lane Closure (circle) Hours / Days	
Number of Poles/Posts/Piles effected		Duration of Footpath diversion (circle)	

		Hours / Days	
Number of Car parks/bus stop/taxi stands affected for more than two hours		Duration of property access restricted (circle) Hours / Days	

# Health and Safety Policy



## Our Purpose |

Creating excellence in regional water services for healthy communities

## Our Vision

Our people, suppliers and affected parties go home healthy and safe

## Our Beliefs

- Health and safety is our top priority
- We look after ourselves; everyone takes personal responsibility for their own health and safety
- We look out for each other, suppliers and the public; we make sure everyone is safe
- Wellington Water takes a methodical approach to health and safety; we continuously review our systems to ensure they are up-to-date and ensure that health and safety is foremost in infrastructure planning and design
- We're committed to health and safety at all times; nobody walks past an unsafe activity or work site - we make it safe

## Our Commitments

### Leadership

- We make sure our people work in a safe environment
- We make sure our work sites are safe for suppliers, neighbours and the general public
- We empower our people to manage health and safety in all situations and to stop unsafe acts as they happen; we make sure there's a safe working environment before work continues
- We proactively identify and manage hazards and ensure safe behaviour
- We support the safe and early return to work of any of our people who are injured or sick, and support and follow up on anyone who is injured on a Wellington Water site
- We recognise staff and suppliers who practice excellence in health and safety

### Systems

- We make sure our people have the training, skills and resources to work safely
- We ensure infrastructure managed by Wellington Water is designed, constructed, operated and maintained safely, and will remain safe for our people, suppliers and the community
- We accurately record, investigate and report incidents and learn from them
- We monitor our health and safety performance and that of our suppliers as a basis for continuous improvement and identifying new and safer ways of working

### Working with others

- Our suppliers are required to commit to our vision of our people and suppliers going home healthy and safe
- We make sure all suppliers working on behalf of Wellington Water have high quality health and safety systems in place
- We comply with and exceed all relevant legislation, regulations, codes of practice and industry standards
- We interpret health and safety broadly and work with all stakeholders to achieve our health and safety vision

A handwritten signature in black ink, appearing to read 'Colin Cameron'.

COLIN CAMERON  
CHIEF EXECUTIVE





# Living Safely Policy

## People at the heart of everything we do

Living safely is how we go about every aspect of our lives; all day, every day. It is more than work, it is about integrating our work, home and interests, our desire to get the best out of life, and to be the best we can. It is recognising our strengths and weaknesses, and making positive choices that benefit our wellbeing and way of life, including those of others in the communities in which we live and work.

### We will:

- Demonstrate our commitment through active and visible leadership
- Abide by a simple safety management system that encourages health and safety ownership by each and every individual
- Incorporate health and safety into the way we design, plan and do our work
- Work collaboratively with our subcontractors to meet the required health and safety standards
- Enhance our health and safety skills and behaviours through training and development
- Foster a culture of reporting, learning and sharing
- Be empowered to maintain a safe and healthy workplace
- Promote a positive health and wellbeing mindset
- Meet or exceed relevant standards and legal requirements
- Set measurable objectives and targets to ensure continual improvement

**C W Bruyn**  
Managing Director



# ROAD SPACE BOOKING

<b>Address:</b>				
<b>Contractor:</b>				
<b>Dates &amp; Times (attended):</b>	<b>From:</b>		<b>To:</b>	
<b>Dates &amp; Times (unattended):</b>	<b>From:</b>		<b>To:</b>	
<b>Generic TMP used:</b>				
<b>Diagram (s) used:</b>				
<b>CAR #</b>				
<b>Work Activity and Reasons TTM to remain in place:</b>				
<b>Contractor Name:</b>				
<b>Contractors Signature:</b>				
<b>TMC Approval:</b>				

Please attach photos of site active site set up (these photos are to include both ends of the site (inclusive of any side roads), pedestrian/cycle management and the working area.

## 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.

Organisations /TMP reference	TMP reference: <b>ATMS 2022-636</b>	Contractor (Working space): As per attached list	Principal (Client): Wellington Water		
		Contractor (TTM): As per attached list	RCA: Upper Hutt City Council		
Location details and road characteristics	Road names and Suburb		House no./RPs	Road level	Speed Limit
	Various within the Upper Hutt City Region		From and to		
Traffic details (main route)	AADT		Peak flows		
	Various		Start	End	
			AM	5:30am	9:00am
			PM	4:00pm	7:00pm

### Description of work activity

**This TMP is to complete P3, P4 & planned maintenance for minor excavations**

Causing health and safety issues to the public and is immediately impacting or flooding a property, accessway or other facility.

1. All work carried out may involve having 1 to 2man onsite including sub-contractors.
2. All digging works can involve but not limited to hand digging or using a digger when required.
3. Leaks – 3 Water network leaks which covers repairs / replacement of council assets.
4. Repair / replacement of Tobies / meters / hydrants / valves / potable services / mains.
5. Operation of hydrants and valves to carry out the work above.
6. Locating council assets to carry out work above.
7. Leak detection to locate leaks on the 3 waters network.
8. Replace Manhole frame and centres.
9. Replace Stormwater and Wastewater laterals.
10. Mark outs to carry out repairs / replacements as above.
11. Weather permitting and if possible, reinstatement to be completed on same day.
12. All works to be completed on same day.

Work Vehicles onsite at various stages of work but not limited to:

- 1 to 2 service vehicles equipped with beacons onsite along with any small plant and equipment to complete the work.
- Hydro Vac Truck / Digger / Jet Flusher maybe utilised to assist with repairing leaks.
- Traffic management vehicles if unable to set up own traffic.
- Reinstatement vehicles / plant.

**APPROVED**

CAR R910344  
Eugene Grant  
STMS Number 29097

**Crews and Sub contractors must adhere to the following:**

- Ensure proper traffic and pedestrian management is in place.
- Set up correct TMD to suit the work site.
- Safety induction is carried out as per RCP process
- Ensure safety is adhere to at all times.
- Ensure all efforts are made to minimise disruption to residents, business and pedestrians.
- Make sure relevant documents are onsite (utility plans).
- Mark out utility / council assets to carry out work above.
- Provide photos showing a wide street view of location.
- Photo of repairs.
- Photo after the repair and how the site was left.
- Clear notes of what was repaired.
- Where possible reinstatement will be completed after excavation.
- Site is packed up and left clean and tidy.



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26 January 2023

**Planned work programme**

Start date	01/01/2023	Time	See Below	End date	31/12/2023	Time	See Below
Consider significant stages, for example:	<p><b>Residential Roads</b></p> <p><i>Installation: 7:00am – 7:30am or whenever site is installed.</i></p> <p><i>Site Active: 7:30am – 17:30pm</i></p> <p><i>Site Removal: 17:30pm – 18:00pm</i></p> <p><b>NIGHTWORKS ARE NOT PERMITTED IN RESIDENTIAL AREAS</b></p> <p><b>Main Road</b></p> <p><i>Installation: 9:00am -9:30am or whenever site is installed</i></p> <p><i>Site Active: 9:30am – 15:30pm</i></p> <p><i>Site Removal: 15:30pm – 16:00pm</i></p> <p><i>Installation: 19:00pm – 19:30pm or whenever site is installed</i></p> <p><i>Site Active: 19:30pm – 5:00am</i></p> <p><i>Site Removal: 5:00am – 5:30am</i></p> <p><b>Works around Schools are not permitted between 8:30am – 9:30am or 2:45pm – 3:15pm.</b></p> <p><b>Only approved contractors listed on Tmp are covered under Generic Car.</b></p> <p><i>This TMP is to cover 1 day attended minor excavation works – a <u>Road Space Booking</u> (attached), CAR and email notification to the TMC &amp; Corridor access manager will be required for any works required to be left unattended.</i></p> <p><b>Road Space Booking MUST include:</b></p> <ul style="list-style-type: none"> <li>• Location/Address</li> <li>• Dates/Times of works – attended &amp; unattended</li> <li>• TMP &amp; Diagram(s) used</li> <li>• Reasons for works/TTM remaining in place, longer than 1 day</li> <li>• Photos of the active site set up (these photos are to include both ends of the site (inclusive of any side roads), pedestrian/cycle management and the working area.</li> </ul> <p><b>Based on the photos provided, if the incorrect TTM has been installed (and/or considered dangerous) and/or outside of the approved TMP requirements, a Notice of Non-conformance may be considered</b></p> <p><i>A site specific TMP is required for/when:</i></p> <ul style="list-style-type: none"> <li>• The generic TMD does not suit/fit the site</li> <li>• A road closure or one way system (partial road closure)</li> <li>• Removal of mobility parking</li> </ul> <p>Use of Traffic Signals (F2.17) &amp; F2.4 must be approved by TMC prior to leaving on an unattended site. F2.16 requires TMC approval prior to installing on both attended and unattended sites.</p> <p>e-STOPS – ATMS 02, ATMS 03 &amp; ATMS 05 are not permitted for use whilst site is unattended – e-STOPS must be manned at all times. e-Stops are a remote control MANUAL operated system so cannot physically operate when unattended.</p> <p>Any changes to the approved TMP must be documented on the Onsite Record.</p>						

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### Parking Restrictions:

Parking restrictions will be installed where required 12-24hrs prior to works commencing. Parking restriction signage is to show actual work times and dates.

**INFORMATION ONLY:** In the event of an emergency – vehicles may require towing.

Upper Hutt City Council to be contacted 04 527 2169

All related towing fees will be directed to the contractor. Towing authority is not approved as part of the TMP process.

### Kerb Side Collection:

Kerb side collection occurs Monday to Friday. Works to halt when kerb side collection vehicle is working in the area or onsite personnel to assist with the collection.

- A risk assessment is to be applied prior to selecting/installing TMDs.
- Checking-process-for-GTMPs checklist form (attached) is to be completed prior to using the GTMP.

### Reinstatement:

- Wellington Water is responsible for managing the aftercare for all temporary surface – contact 04 912 470 or email: [landaccess@wellingtonwater.co.nz](mailto:landaccess@wellingtonwater.co.nz).
- Reinstatement must be completed as per National code requirements.
- Compaction test must be supplied as per National code requirements.
- If work is postponed or cancelled; works will go ahead the next safe and practical date possible weather permitting.
- Sites left unattended need to be monitored once within each 24-hour period and recorded on the site record and monitoring form.
- Sites left unattended must be fenced off as per National code requirements.
- Reinstatement is to be planned same day or as soon as practicably possible. Pedestrian management (remaining on the path/berm) and shoulder closures can remain in place with fencing. Any works requiring pedestrian diversion onto the road or larger than a Shoulder Closure must be backfilled to road level with aftercare left in place or temporary sealed.

Work Vehicles onsite at various stages of work but not limited to:

- 1 to 2 service vehicles equipped with beacons onsite along with any small plant and equipment to complete the work.
- Concrete truck / Hot Box Truck along with any small plant and equipment to complete the work.
- Digger / Roller.
- Traffic management if unable to set up own traffic.
- Reinstatement vehicles / plant.

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Upper Hutt City Council  
26 January 2023

Inspection activities must be completed as detailed in the approved TMP.			
Type of road	On shoulder or roadside – no time limit	On live lane – up to 5 minutes	Over 5 minutes
<b>Low volume (less than 500vpd) category A or B road environment</b>	<b>Spotter optional – can be one person activity</b> Onsite control must be by either a practising STMS of any category, a practising TMO or an Inspector <i>and in the interim until the warrants are phased out, an STMS of any level or a TC-Inspector.</i>		<b>Inspection not permitted.</b>  <b>Must use a mobile, semi-static, or static closure.</b>
<b>Category A</b>	<b>Spotter optional – can be one person activity</b>  Onsite control must be by either practising STMS of any category, practising TMO or Inspector <i>(and in the interim until the warrants are phased out):</i>	<b>Spotter required – minimum two person activity</b>	
	Road level	Onsite control	
	Level 1 road	TC, TC-Inspector or STMS	
	Level 2 road	L2/3 STMS, STMS-NP, or TC-Inspector	
<b>Category B</b>	<b>Spotter optional – can be one person activity</b>  Onsite control must be by either a practising STMS of any category, a practising TMO or an Inspector <i>and in the interim until the warrants are phased out:</i>	<b>Spotter required – minimum two person activity</b>	
	Road level	Onsite control	
	Level 1 road	TC, TC-Inspector or STMS	
	Level 2 road (shoulder, roadside or on the lane with speed 60km/h or less)	L2/3 STMS, STMS-NP or TC-Inspector	
	Level 2 road (on the lane with speed 70km/h or more)	L2/3 STMS or STMS-NP	
<b>Category C</b>	<b>Spotter optional – can be one person activity:</b> Onsite control must be by either a practising STMS (C) or an Inspector <i>(and in the interim until the warrants are phased out, a L2/3 STMS, STMS-NP, or TC-Inspector).</i>	<b>Inspection not permitted.</b> <b>Must use a mobile, semi-static, or static closure.</b>	

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	<p><b>General rules</b> (apply to all the above)</p> <p>Inspectors must move to avoid traffic. They must not expect traffic to move or slow down to avoid them.</p> <p>There must be CSD to the Inspector when on the live lane.</p> <p>On busy roads where traffic volumes and speed affect access to the live lane, peak periods should be avoided or a higher level of TTM considered.</p> <p>Crossing a level LV, 1 or 2 road does not constitute being on a live lane but crossing a level 3 road does, unless a pedestrian crossing facility is being used.</p> <p><b>Vehicle</b></p> <p>Advance warning in the form of an inspection vehicle fitted with one and preferably two amber flashing beacons and a rear-mounted sign indicating the type of activity taking place must be positioned in advance of the inspection site.</p> <p>A vehicle is not required on a level LV or level 1 road with a permanent speed of less than 65km/h if the Inspector remains on a footpath.</p> <p>On roads with a permanent speed of less than 65km/h an amber flashing beacon is not required on the vehicle if the Inspector or non-invasive works is on an unsealed shoulder (or further away from the carriageway - including a footpath).</p> <p><b>Spotter</b></p> <p>A spotter is not required for inspections and non-invasive works on level LV roads.</p> <p>Unless otherwise approved by the RCA, all inspections on the live lane of level 1 and level 2 roads require a spotter. The RCA may provide a list of level 1 roads, times and/or activities suitable for inspection by a single inspector (eg where no level LV roads have been declared by the RCA)</p> <p>Where an unaccompanied Inspector is not able to maintain adequate attention (eg due to work tasks or poor visibility), a spotter will be required or another type of traffic management operation used.</p>
Alternative dates if activity delayed	N/A – works will be carried out within the times/dates as listed.

**Road aspects affected** (delete either Yes or No to show which aspects are affected)

Pedestrians affected?	Potentially	Property access affected?	Potentially	Traffic lanes affected?	Potentially
Cyclists affected?	Potentially	Restricted parking affected?	Potentially	Delays or queuing likely?	Potentially

**Proposed traffic management methods**

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**Installation**  
(includes parking of  
plant and materials  
storage)

- STMS to contact Metlink (0800 801 700) for any works on a bus route or impacting bus stops 30 mins prior to installation.
- STMS to contact WTOC (0800 869 286) for any works affecting or close to traffic signals 30 mins prior to installation.

Once on site, the TMP will be implemented as follows:

- Identify public safety and site safety hazards and how they will be addressed and place on the hazard document for 'toolbox' briefing
- STMS to check the TMP is appropriate to the worksite.
- All vehicles are to have correct signage and flashing beacons. They also need to have continuous and appropriate communication with the STMS and each other on an agreed channel at all times
- Work vehicles required on site will be parked within the site or parked legally nearby.
- Mobile Operations or inspection activities may be required to turn on/off water valves.

**Layout Procedure**

Installation of the site will be done under a level 1 mobile closure with appropriate work vehicles and crew.

1. A site drive through will be conducted first to confirm layout, conditions and environment are all appropriate for works to proceed.
2. Vehicle positioning will be as far to the left as practical and the installation vehicle will be stationary at the installation of each sign, with activity occurring only on the non-traffic side of the vehicle.
3. Advanced warning signage will be installed first on the left, followed by progressive signage installation in a 'loop' fashion around the site area.
4. Once ALL signage for the site has been installed delineation and direction signage will be installed in the following order;
  - a. Longitudinal Delineation (Along the lane)
  - b. Tapers (Shifting) & RD6 signage
  - c. Tapers (Merging) & RD6 signage

Once all delineation is installed and prior to personnel, vehicle, plant and machinery populating the worksite, a drive through check must be performed by the STMS to ensure the site has been set up as per the selected TMDs, this should include the checking of worksite layout distances.

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<p>Attended (day)</p>	<ul style="list-style-type: none"> <li>• An STMS or delegated TC/TMO must be onsite at all times.</li> <li>• TC/STMS to assist pedestrians/cyclists/driveways and any resident/business driveways.</li> <li>• For Stop/Stop and Stop/Go setups, cyclists will be sent prior to any vehicles.</li> <li>• STMS/TC will complete 2 hourly site checks and document on the onsite record.</li> </ul> <p><b>Works near Signals:</b></p> <ul style="list-style-type: none"> <li>• Any affected signal loops must be notified to WTOC during the pre-installation call to allow them to adjust signal management.</li> </ul> <p><b>Works near Pedestrian Crossings:</b></p> <ul style="list-style-type: none"> <li>• TC's to guide pedestrians through/around the closure.</li> </ul> <p><b>Works near a Bus Stop:</b></p> <p><b>Bus stop integrated into MTC Stop Point</b></p> <ul style="list-style-type: none"> <li>• TC's on stop/go are to stop each bus and assist with loading &amp; unloading of passengers as required.</li> <li>• Bus stop signage is to direct pedestrians towards the stop point</li> </ul> <p><b>Bus stop relocated away from site</b></p> <ul style="list-style-type: none"> <li>• Bus stop signage is to be placed to show patrons where the relocation is.</li> <li>• Temporary bus stop signage is to be used</li> <li>• Parking restrictions are to be in place at the relocated bus stop</li> </ul> <p><b>Works near a School:</b></p> <p>School will be notified of emergency works.</p> <p>Works will be minimized where possible at school drop off or pick up times.</p>
<p>Attended (night)</p>	<ul style="list-style-type: none"> <li>• An STMS or delegated TC/TMO must be onsite at all times.</li> <li>• TC/STMS to assist pedestrians/cyclists/driveways and any resident/business driveways.</li> <li>• For Stop/Stop and Stop/Go setups, cyclists will be sent prior to any vehicles.</li> <li>• STMS/TC will complete 2 hourly site checks and document on the onsite record.</li> <li>• Additional lighting may be required/supplied.</li> <li>• Noise will be kept to a minimum where possible.</li> </ul> <p><b>Works near Signals:</b></p> <ul style="list-style-type: none"> <li>• Any affected signal loops must be notified to WTOC during the pre-installation call to allow them to adjust signal management.</li> </ul> <p><b>Works near Pedestrian Crossings:</b></p> <ul style="list-style-type: none"> <li>• TC's to guide pedestrians through/around the closure.</li> </ul> <p><b>Works near a Bus Stop:</b></p> <p><b>Bus stop integrated into MTC Stop Point</b></p> <ul style="list-style-type: none"> <li>• TC's on stop/go are to stop each bus and assist with loading &amp; unloading of passengers as required.</li> <li>• Bus stop signage is to direct pedestrians towards the stop point</li> </ul> <p><b>Bus stop relocated away from site</b></p> <ul style="list-style-type: none"> <li>• Bus stop signage is to be placed to show patrons where the relocation is.</li> <li>• Temporary bus stop signage is to be used</li> <li>• Parking restrictions are to be in place at the relocated bus stop</li> </ul>

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Unattended (day)	<ul style="list-style-type: none"> <li>Where hazards are present an appropriate aftercare closure would be installed as required.</li> <li>Contractor to perform risk assessment on site and determine if additional lighting sources are required.</li> <li>A site check must be completed a minimum of once every 24hrs or as required due to adverse weather or complaints.</li> <li><u>Road Space Booking</u> (attached), CAR and email notification to the TMC &amp; Corridor access manager will be required for any works required to be left unattended.</li> <li>Use of Traffic Signals (F2.17) &amp; F2.4 must be approved by TMC prior to leaving on an unattended site.</li> <li>F2.16 requires TMC approval prior to installing on both attended and unattended sites</li> <li>e-STOPS – ATMS 02, ATMS 03 &amp; ATMS 05 are not permitted for use whilst site is unattended – e-STOPS must be manned at all times. e-Stops are a remote control MANUAL operated system so cannot physically operate when unattended.</li> <li>Unattended site for concrete setting maybe left as required in footpath, berm or shoulder using F2.1, F2.2, F2.3, F2.7. must be approved prior by TMC.</li> </ul>
Unattended (night)	As per Unattended (day)
Detour route	<p>A detour route is not required or approved in the TMP</p> <p>Does detour route go into another RCA's road network? No</p> <p>If Yes, has confirmation of acceptance been requested from that RCA? No</p> <p><b>Note:</b> Confirmation of acceptance from affected RCA must be submitted prior to occupying the site.</p>
Removal	<p>STMS to contact Metlink (0800 801 700) upon site removal</p> <p>STMS to contact WTOC (0800 869 286) upon site removal.</p> <p>Work plant / vehicles to be removed from site before closure is removed</p> <p>Removal of the site will be done under a level 1 mobile closure with appropriate work vehicles and crew.</p> <ol style="list-style-type: none"> <li>Workspace delineation to be removed first (by either removing to the kerb for later collection or directly onto a stationary working vehicle)</li> <li>Centreline delineation may now be removed using the same method as installation</li> <li>Once all delineation is removed – sign removal may commence in a clockwise 'loop' fashion (leaving advanced warning signage in place till last)</li> <li>A full site check being conducted prior to site departure.</li> </ol> <p>The STMS will carry out the final check before leaving the site.</p>

Proposed TSLs (see TSL decision matrix for guidance)				
	TSL details as required Approval of Temporary Speed Limits (TSL) are in terms of Section 6 of Land Transport Rule: Setting of Speed Limits 2017, Rule 54001/2017 (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	<p>A temporary maximum speed limit is hereby fixed for motor vehicles travelling over the length of _____ situated between _____ (house no./RP) and _____ (house no./RP) on _____ (street or road name)</p> <p>STMS to document on the Onsite Record daily.</p>	24hrs	01/01/2023 - 31/12/2023	F2.11, F2.12, F2.13, ATMS02, F2.14, ATMS04, F2.22, F2.15, F2.16, F2.17, F2.18, F2.19, F2.20, F2.21, F2.30, F2.31, F2.8, F2.9, ATMS03, J2.19a, J2.20a, J2.20b, J2.20c, J2.20d, J2.20e,

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Unattended day/night	A temporary maximum speed limit is hereby fixed for motor vehicles travelling over the length of _____ situated between _____ (house no./RP) and _____ (house no./RP) on _____ (street or road name)  STMS to document on the Onsite Record daily.	24hrs	01/01/2023 - 31/12/2023	F2.1, F2.2, F2.3, F2.7, F2.11, F2.12, F2.26, F2.27, F2.28, F2.29, ATMS02, F2.16 & F2.17
TSL duration	Will the TSL be required for longer than 12 months? <i>If yes, attach the completed checklist from section I-18: Guidance on TMP Monitoring Processes for TSLs to this TMP.</i>			No

### Positive traffic management measures

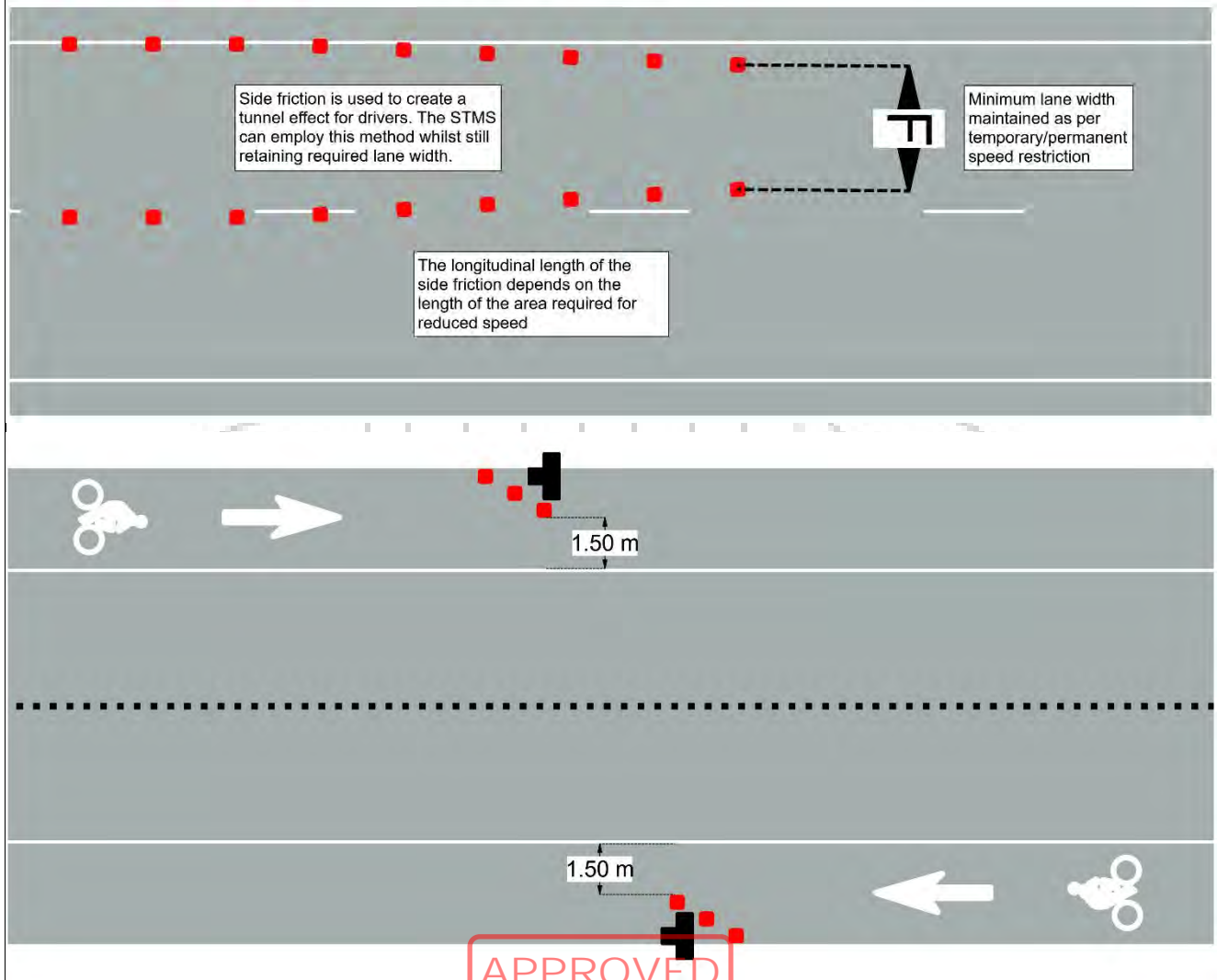
- Side friction delineation installed from TSL to the start of the taper.
- Additional cones may be placed on centerlines, edgelines or shoulders to increase site safety and reduce vehicle speed.
- Use of paddles and TSL
- Cone offset delineation – where cones are placed either side of the lane(s), the cones on one side are placed longitudinally offset from the other by half a cone spacing.

Reduced cone spacing (2.5m)  
can be utilised to increase impact

Side friction is used to create a  
tunnel effect for drivers. The STMS  
can employ this method whilst still  
retaining required lane width.

The longitudinal length of the  
side friction depends on the  
length of the area required for  
reduced speed

Minimum lane width  
maintained as per  
temporary/permanent  
speed restriction



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## 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.

### Detour

If because of the on site activity it will not be possible to remove or reduce the effects of TTM once it is established a detour route must be designed. This is likely for:

- excessive delays when using an alternating flow design for TTM
- redirecting one direction of flow and / or
- total road closure and redirection of traffic until such time that traffic volumes reduce and tailbacks have been cleared.

The risks in the type of work being undertaken, the risks inherent in the detour, the probable duration of closure and availability and suitability of detour routes need to be considered.

The detour and route must be designed including:

- pre approval from the RCA's whose roads will be used or affected by the detour route
- ensure that TTM equipment for the detour - signs etc are on site and pre installed.

### Actions

When it is necessary to implement the pre-planned detour the STMS must immediately undertake the following:

- Notify the RCA and / or the engineer when the detour is to be established
- Drive through the detour in both directions to check that it is stable and safe
- Remove the detour as soon as it practicable and safe to do so and the traffic volumes have reduced and tailbacks have cleared
- Notify the RCA and / or the engineer when the detour has been disestablished and normal traffic flows have resumed.

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	<p><b>Note also the requirements for no interference at an accident scene:</b></p> <p>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:</p> <ul style="list-style-type: none"> <li>• save a life of, prevent harm to or relieve the suffering of any person, or</li> <li>• make the site safe or to minimise the risk of a further accident; or</li> <li>• maintain the access of the general public to an essential service or utility, or</li> <li>• prevent serious damage to or serious loss of property, or</li> <li>• follow the direction of a constable acting in his or her duties or act with the permission of an inspector.</li> </ul>
Other contingencies to be identified by the applicant (i.e. steel plates to quickly cover excavations)	<p>This will be determined on a case-by-case basis. Where achievable works will stop until emergency or delays have been cleared.</p> <p>Should signals or e-STOPs fail – Manual Traffic Control is to be installed immediately (refer to F2.14 &amp; F2.22).</p>

Authorisations				
Parking restriction(s) alteration authority	Will controlled street parking be affected?	Yes (potentially)	Has approval been granted?	N/A
	Site Specific TMP will be submitted if mobility parking is affected.			
Authorisation to work at permanent traffic signal sites	Will portable traffic signals be used or permanent traffic signals be changed?	Yes (potentially)	Has approval been granted?	No
	WTOC to be notified 30 mins prior to site installation and upon removal.			
Road closure authorisation(s)	Will full carriageway closure continue for more than 5 minutes (or other RCA stipulated time)?	No	Has approval been granted?	No
	N/A			
Bus stop relocation(s) – closure(s)	Will bus stop(s) be obstructed by the activity?	Yes (potentially)	Has approval been granted?	No
	Metlink will be notified 30 mins prior to installation and upon removal.			
Authorisation to use portable traffic signals	Make, model and description/number	<b>eSTOP Portable Traffic Signals:</b> model# <ul style="list-style-type: none"> <li>• 627 - 1, 627 - 2</li> <li>• 628 - 1, 628 - 2</li> <li>• 629 - 1, 629 - 2</li> <li>• 630 - 1, 630 - 2</li> <li>• 631 - 1, 631 - 2</li> </ul>		
	NZTA compliant?	Yes		

EED			
Is an EED applicable?	EED is not required	EED attached?	EED is not required

Delay calculations/trial plan to determine potential extent of delays
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### e- STOP & Stop Go Closures:

Delays of up to 5 minutes can be expected due to the nature of the TTM implemented. The STMS is to take measures to ensure delays remain under 5 minutes at all times, and queues do not extend past the advance warning signage.

If delays are occurring or excessive queueing is apparent, the STMS is to implement one of the following contingency plans;

- 1) Traffic Metering  
Send only a specific amount of vehicles per side instead of clearing the entire queue
- 2) Pause works and open site  
Make the site safe, remove plant and vehicles from the carriageway and open the tapers
- 3) Prioritise high flow route  
Send vehicles from the approach with the highest flow first. Hold side street traffic for slightly longer if required.
- 4) Install additional signage  
Install T2A/T234 "Warning – Hidden Queue" signage up to 2xB from the initial advance warning signage for additional advance warning

STMS will continuously monitor for delays – TMC will be notified of any excessive delays.

### Public notification plan

A letter drop to residents and businesses is to be completed 5 working days prior to works commencing.

WTOC notification for any works which are in close proximity to traffic signals and/or for a communications plan on permanent VMS within Upper Hutt City region.

Public notification plan attached? No

### On-site monitoring plan

#### Attended (day and/or night)

An STMS or delegated TC/TMO will be on site at all times.  
2 Hourly Site Checks to be documented on the on-site record.  
STMS/TC to monitor and assist pedestrians, cyclists and driveways when needed.

#### Unattended (day and/or night)

Unattended site to be checked at least once every 24 hours with site check frequency increasing in the case of inclement weather or complaints.  
If temporary signals are used (F2.17) site checks are to be completed 2hourly or as required due to inclement weather or complaints.

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

- Hazard ID sheet
- CoPTTM on-site record.
- Checking process for Generic TMPs form to be completed prior to set up of a worksite when using this TMP.

### Site safety measures

- All visitors/contractors to be inducted and hazard ID completed
- PPE gear to be worn by all on site
- Toolbox meeting to be held prior to work commencing.
- Arm bars to be installed around the work area.
- STMS/TC to monitor and assist pedestrians, cyclists and driveway access at all times when required.
- Pedestrian ramps to be installed when required.

Temporary safety barrier system	Will a temporary safety barrier system be used at this worksite?	No	If yes, has the temporary safety barrier system been designed by an installation designer and independently reviewed as being fit for purpose?	N/A
	Statement from temporary safety barrier installation designer attached			N/A

Other information

**LEVEL 1 LAYOUT DISTANCES TABLE**

Permanent speed limit or RCA-designated operating speed (km/h)		≤50	60	70	80	90	100		
Traffic signs									
A	Sign visibility distance (m)	50	60	70	80	90	100		
B	Warning distance (m)	50 or 30*	80	105	120	135	150		
C	Sign spacing (m)	25 or 15*	40	50	60	70	75		
Safety zones									
D	Longitudinal (m)	10 or 5*	15	30	45	55	60		
E	Lateral (m)	1	1	1	1	1	1		
Tapers									
G	Taper length (m)*	30	50	70	80	90	100		
K	Distance between tapers (m)	40	50	70	80	90	100		
Delineation devices									
Cone spacing in taper (m)		2.5	2.5	5	5	5	5		
Cone spacing: Working space (m)		5	5	10	10	10	10		
<p>* 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.</p> <p># On non-state highways with speeds 50km/h or less, a <b>10m taper</b> (with cones at 1m centres) may be used when there are road environment constraints (eg intersections and commercial accesses).</p> <p>On all roads where shoulder width is less than 2.5m and the activity does not affect the live lane, a <b>10m shoulder taper</b> is permitted (with at least 5 cones at no greater than 2.5m centres).</p> <p>A <b>taper of 30m</b> (with cones at 2.5m centres) <b>must</b> be used where manual traffic control (stop/go), portable traffic signals or priority give way are employed.</p>									
Lane widths									
Speed (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.

Attached Diagrams

Pedestrian Management

1. CC1 – Works on berm or footpath
2. CC2 – Traffic not crossing road centre
3. CC3 - Works on berm or footpath – vehicle parked on berm
4. CC4 – Footpath diverted onto shoulder or parking lane
5. CC5 – Footpath Controller
6. ATMS05 – Pedestrian Escort (1<sup>st</sup> Choice)
7. F2.1 – Pedestrian Diversion (berm) (2<sup>nd</sup> Choice)
8. F2.2 – Pedestrian Diversion (berm) (3<sup>rd</sup> Choice)

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9. F2.3 – Pedestrian Diversion (carriageway) (4<sup>th</sup> Choice)
10. F2.4 – Footpath Closed (5<sup>th</sup> Choice) **Requires TMC approval**

#### Works on berm/shoulders/Lane Width Reduction

11. F2.5 – Works on berm
12. F2.6 – Works on parking lane
13. F2.7 – Shoulder Closure
14. F2.11 – Lane Width Reduction
15. F2.12 – Lane Width Reduction (median)

#### Inspection Activities

16. F4.10 – Inspection Activity
17. ATMS07 – Inspection Activity – Centre of Road

#### Lane Closures/Diversions/e-STOP/MTC/Traffic Lights/Centre of Road

18. F2.13 – Two Lane Diversion
19. ATMS02 - 2 Way e-STOP
20. F2.14 – 2 Way MTC
21. ATMS04 – e-STOP with MTC
22. F2.22 – 3-4 Way MTC
23. F2.15 – Stop Stop
24. F2.16 – Priority Give Way **Requires TMC approval**
25. F2.17 – Traffic Lights – **Requires TMC approval for unattended sites**
26. F2.18 – Works in centre of road
27. F2.19 – Intersection
28. F2.20 – Intersection
29. F2.21 – Works in middle of intersection
30. F2.30 – Left Lane Closure (1 way, 2 lane)
31. F2.31 – Right Lane Closure (1 way, 2 lane)

#### Hazards/Aftercare

32. F2.26 – Hazard – Flooding
33. F2.27 – Hazard – New Seal
34. F2.28 – Hazard – Surface Hazard
35. F2.29 – Hazard – Seal Repairs on a curve

#### Mobile Operations/Semi Statics

36. F4.1 – Mobile Operation – 5m from edgeline
37. F4.2 – Mobile Operation – within 5m of edgeline
38. F4.3 – Mobile Operation – with pilot
39. F4.4 – Mobile Operation – work vehicle in lane
40. ATMS06 – Semi Static (right or left lane)
41. Mobile Closure – L1 – Install & Removal

#### Cycle Lanes

42. F2.8 – Cycle Lane Diversion
43. F2.9 – Cycle Lane Diversion
44. ATMS03 – Cycle Lane e-STOP

#### Section J diagrams

45. J2.16a
46. J2.19a
47. J2.20a
48. J2.20b
49. J2.20c
50. J2.20d
51. J2.20e

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26 January 2023

Contact details						
	Company / Council	Name	24/7 contact number	CoPTM ID	Qualification	Expiry date
Principle	Wellington Water	Tim Harty	021 451 104	-	-	-
TMC	Upper Hutt City Council	Eugene Grant	027 227 8029	-	-	-
Engineers' representative	Wellington Water	Valitha Roos	021 510 923	-	-	-
Service Delivery Manager	Wellington Water	Steve Watt	021 507 440	-	-	-
Contractor Interim Contacts	ATMS	Paul Rudman	021 529 729	-	-	-
	Citycare	Wayne Kelland	027 263 8731	-	-	-
	Citycare	Mark Thompson	027 542 6244	-	-	-
	Citycare	Paul Coles	03 941 7225	-	-	-
	Dawson Waste Services Ltd	Jan Godfrey	04 528 9909	-	-	-
	Davies Waste Solutions	Evan Davies	027 283 8831	-	-	-
	RS Cabling	Nathan Rose	027 275 4317	-	-	-
	SAP Contractors	Glenn Churches	027 272 1666	-	-	-
	SAP Contractors	Jonathon Manava	027 216 6651	-	-	-
	Silver Lining Contracting Ltd	Renee Wilkie	021 0828 0647	-	-	-
	Greenstone	Whai Williams	027 4430 791	-	-	-
	Cubic Metre	Taupau Peni	021 345 379	-	-	-
	Cubic Metre	Andrew McWhirter	021 345 79	-	-	-
	Kahu Contractors	Harold Paul	021 027 37643	-	-	-
	Jet black Asphalt	Neville Playford	027 208 9309	-	-	-
	GP Friel	Dave Phillipson	022 657 2402	-	-	-
	Detection Services	Tim Armstrong	027 4576 113	-	-	-
	Detection Services	Ross Beckett	04 915 0530	-	-	-
	E Carson & Sons	Eddie Carson	027 442 4343	-	-	-
	AD Riley & Co Ltd	Chris Parkinson	021 305 637	-	-	-
	P & N Siteworks	Peter Lindsey	027 2358 363	-	-	-
	Central Plumbing (Wellington) Ltd	Anthony Eden	022 6385 704	-	-	-
	WAL Gordon Plumbing	Wal Gordon	027 2114 007	-	-	-
	Cardno NZ Ltd	Jane Nichols	021 199 5917	-	-	-
	Intergroup	Wayne Carling	027 239 7187	-	-	-
	Intergroup	Kerrod Foaese	021 133 5973	-	-	-
	G P Friel Ltd	Dave Philipson	022 657 2402	-	-	-
	Southcys Group	Leonard Vertigans	027 275 4315	-	-	-
	S & R Asphalts Ltd	Scott Hay	027 440 2405	-	-	-
	Multi Civil Contractors Limited	Cody Pepere	027 322 6483	-	-	-
	Hydrotech Group	Neil Cherry	021 730 502	-	-	-
	Hydrotech Group	Paul Reynolds	021 730 486	-	-	-
	Quik-Shot Trading as AES	Eddy Warda	022 018 0705	-	-	-
	HCC Trade Waste Team	Pakau Tanirau	027 2441 6376	-	-	-

	HCC Trade Waste Team	David Fahey	027 642 3345	-	-	-
	Drain Doctors	Ian Pauley	04 566 9252	-	-	-
	Wellington Pipelines	James Fruean	027 499 9223	-	-	-
	PTS	Bux Manuseuga	027 836 5243	-	-	-
	Mottmac	Patrick Wharewera-Jones	027 746 8395	-	-	-
	Mottmac	Matthew Cooper	021 688 013	-	-	-
	Vac U Digga	Kathy Fandham	021 246 3615			
	Ace Drain Unblockers	Rudolf Roppl	027 249 7492			
	Concrete Cutting NZ	Aldon Solomon	021 737 674			
	Contract Sealing	Chris Curtis	027 487 3726			
	Concrete Solutions Ltd	Cameron Dearlove	021 744 317			
	Construction Contracts Limited (CCL)	Steve Scrimshaw	(04) 567 9777			
	E N Ramsbottom Ltd	Michelle Hoffman	027 471 6246			
	Horokiwi Paving Limited	Peter Green	027 443 2206			
	McCormack Group	Willy McCormack	027 449 3985			
	PCL Contracting Ltd	Luke Lee	027 210 2079			
	Podium Concrete	Bradley Roberts	(04) 237 9595			
	Pope & Gray	Jeremy Gray	027 466 5538			
	Precision Concrete Pumping & Spraying Limited	Steve Graham	027 233 1794			
	Rob's Concrete Cutting	Robert Betty	021 631 957			
	Shane McGrath Contracting	Shane McGrath	027 493 8911			
	Solid Art Concrete	Nui Ririnui	022 126 2130			
	TQ Concrete Placers Ltd	Tom Paki	027 404 2032			
TTM Interim Contacts	ATMS	Vena Lam Sam	021 767 165	39930	(ABC)-NP R L2/3 P	22/09/24
	ATMS	Martyn Sauaiga	027 348 9478	72781	L 2/3 NP	30/07/23
	PTS	Bux Manuseuga	027 836 5243	-	-	-
	Wellington Water	Steve Watt	021 507 440	-	-	-
	Citycare	Wayne Kelland	027 263 8731	-	-	-
	Citycare	Mark Thompson	027 542 6244	-	-	-
	SAP Contractors	Glenn Churches	027 272 1666	-	-	-
	SAP Contractors	Jonathon Manava	027 216 6651	-	-	-
	Silver Lining	Bill Wilkie	021 082 20647	-	-	-
	Greenstone	Whai Williams	04 566 0890	-	-	-
	Cubic Metre	Taupau Peni	021 345 379	-	-	-
	Jet black Asphalt	Neville Playford	027 2089309	-	-	-
	Cardno NZ Ltd	Jane Nichols	021 199 5917	-	-	-
	RS Cabling	Nathan Rose	027 275 4317	-	-	-
	HCC Trade Waste Team	Pakau Tanirau	027 2441 6376	-	-	-



	HCC Trade Waste Team	David Fahey	027 642 3345	-	-	-
	P & N Siteworks	Peter Lindsey	027 2358 3637	-	-	-
	Central Plumbing (Wellington) Ltd	Anthony Eden	022 6385 704	-	-	-
	Detection Services	Tim Armstrong	027 4576 113	-	-	-
	Quik-Shot Trading as AES	Eddy Warda	022 018 0705	-	-	-
	Hydrotech Group	Neil Cherry	021 730 502	-	-	-
	Hydrotech Group	Paul Reynolds	021 730 486	-	-	-
	Intergroup	Wayne Carling	027 239 7187	-	-	-
	Intergroup	Kerrod Foese	021 133 5973	-	-	-
	Shepherd Traffic Management Solutions	Richard Shepherd	029 777 9099	-	-	-
	Men At Work	Kurt Puryer-Smith Todd Lynch Ratu Kapaiwai	027 274 2369 027 282 0998 027 514 9675	- - -	- - -	- - -
	TPlans Limited	Tayla Varcoe	021 717 592			
	Traffic Safe	Julie Hitchcock	027 450 6565			
	Traffic Management NZ Ltd	Ian Satherley	021 400 023			
STMS	STMS to be confirmed prior to works		-	-	-	-
TC	TC to be confirmed prior to works		-	-	-	-
Others as required	WTOC		0800 869 286	-	-	-
	Metlink Contact Centre		0800 801 700	-	-	-
				-	-	-

TMP preparation

ALL TRAFFIC MANAGEMENT SERVICES

atms

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STMS Number 29097

Preparation	Dylan Green	20/12/2022	<i>D Green</i>	68522	L 2/3 NP	-	17/03/2023
	Name (STMS qualified)	Date	Signature	ID no.	Qualification	TTMP	Expiry date

\* additional column added to indicate the attended (or confirmed booking) date of the named designer on the NZTA Temporary Traffic Management Planners (TTMP) workshop as required by the NZTA technical note, issued 9 December 2019

This TMP meets CoPTTM requirements				Number of diagrams attached		51	
TMP returned for correction (if required)							
	Name	Date	Signature	ID no.	Qualification	Expiry date	
<b>Engineer/TMC to complete following section when approval or acceptance required</b>							
Temporary safety barrier system	The attached temporary road safety barrier design has been independently reviewed as being fit for purpose					Not required	
TMP Approved							
	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	

<b>Qualifier for engineer or TMC approval</b>
<p>Approval of this TMP authorises the use of any regulatory signs included in the TMP or attached traffic management diagrams.</p> <p>This TMP is approved on the following basis:</p> <ol style="list-style-type: none"> <li>1. To the best of the approving engineer's/TMC's judgment this TMP conforms to the requirements of CoPTTM.</li> <li>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.</li> <li>3. The TMP provides so far as is reasonably practicable, a safe and fit for purpose TTM system.</li> <li>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.</li> </ol>

<b>Notification to TMC prior to occupying worksite/Notification completed</b>			
Type of notification to TMC required		Notification completed	Date <input type="text"/>
			Time <input type="text"/>

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STMS Number 29097

# ROAD SPACE BOOKING

<b>Address:</b>				
<b>Contractor:</b>				
<b>Dates &amp; Times (attended):</b>	<b>From:</b>		<b>To:</b>	
<b>Dates &amp; Times (unattended):</b>	<b>From:</b>		<b>To:</b>	
<b>Generic TMP used:</b>				
<b>Diagram (s) used:</b>				
<b>CAR #</b>				
<b>Work Activity and Reasons TTM to remain in place:</b>				
<b>Contractor Name:</b>				
<b>Contractors Signature:</b>				
<b>TMC Approval:</b>				

Please attach photos of site active site set up (these photos are to include both ends of the site (inclusive of any side roads), pedestrian/cycle management and the working area.

**ON-SITE RECORD MOBILE OPERATIONS** (*On-site record must be completed and retained with the applied TMP for 12 months*)

Today's date

**STMS in charge of TTM**

Name	NZTA warrant	TTM ID Number	NZTA warrant expiry date	STMS signature	Time

**In charge STMS pre-start check**

Mandatory Items to be checked as fit for purpose	High-visibility garments are fit for purpose, in an acceptable condition and worn correctly?	Vehicle Xenon (or LED)/Beacons are fit for purpose?	LAS/RD6/AWVMS/VMS/Horizontal arrow boards are fit for purpose?	TMA's are fit for purpose	Two-way radios available, operating OK and batteries are fully charged	Correct signs for work operation are fitted to all vehicles and are fit for purpose
Time the check was completed:		In charge STMS signature:				

**Operation record** (*To be completed for all inspection worksites/runs, mobile runs, semi-static sites*)

Affected Road Environment Details			Work Activity Timing	
Affected Road name(s)	Worksite start point	Worksite end point	Start	End

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**Checks** *(must be completed and documented at least every 30 minutes)*

**Mobile closure**

Time	Distances between vehicles maintained	Lateral positioning of vehicles maintained	LAS/RD6/AWVMS/VMS/Horizontal arrowboards continue to operate correctly	Road clear and available for planned work?	Static equipment maintained?	Safety zones maintained?	Working space adequate and maintained?

**Comments** relating to any changes and or improvements to the approved TTM/TMP

Time of comment	Detail

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## ON-SITE RECORD

On-site record must be retained with TMP for 12 months.

Today's date

Location details	Road names(s):	House number/RPs:	Suburb:
------------------	----------------	-------------------	---------

## 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 replacement STMS					
	Name	ID Number	Warrant expiry date	Signature	Time
	Tick to confirm handover briefing completed				

## Delegation

Worksite control accepted by TC/STMS-NP					
	Name	ID Number	Warrant expiry date	Signature	Time
	Tick to confirm briefing completed				

## Temporary speed limit

Street/road name (RPs or street numbers):	TSL action	Date:	Time:	TSL speed:	Length of TSL (m):
From: To:	TSL installed				
	TSL remains in place				
	TSL removed				
From: To:	TSL installed				
	TSL remains in place				
	TSL removed				
From: To:	TSL installed				
	TSL remains in place				
	TSL removed				
From: To:	TSL installed				
	TSL remains in place				
	TSL removed				

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## Worksite monitoring

TTM to be monitored and 2 hourly inspections documented below.

Items to be inspected	TTM set-up	2 hourly check	2 hourly check	2 hourly check	2 hourly check	2 hourly check	TTM removal
High-visibility garment worn by all?							
Signs positioned as per TMP?							
Conflicting signs covered?							
Correct delineation as per TMP?							
Lane widths appropriate?							
Appropriate positive TTM used?							
Footpath standards met?							
Cycle lane standards met?							
Traffic flows OK?							
Adequate property access?							
Barrier deflection area is clear? (Refer to Barrier design statement)							
Add others as required							
Time inspection completed:							
Signature:							
Comments:							
Time	Adjustment made and reason for change						

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## Checking process for generic TMPs

*This form, or a similar company record, must be completed prior to set up of a worksite where a generic TMP is used.*

### Location details

Road name(s)		House number/RP(s)		Suburb	
Road name(s)		House number/RP(s)			
Generic TMP reference no.		TMD no(s).		Note: The checking process must include all the TMDs to be used	

Category	Points to consider	Y	N	Comment/Mitigation
Road level	Is this at the correct road level?			
Shape	Are the following catered for in the generic TMP? <ul style="list-style-type: none"> <li>• Intersections</li> <li>• Vertical Curves (hills)</li> <li>• Horizontal Curves (corners)</li> <li>• Sufficient advance warning</li> </ul>			
Direction and protection	Check that there is: <ul style="list-style-type: none"> <li>• sufficient length to place the planned direction and protection</li> <li>• sufficient road width to place the planned direction and protection ie minimum lane width is 2.75m</li> <li>• adequate sight distance on both sides</li> <li>• sufficient room to accommodate required positive traffic control</li> </ul>			
Proposed speed restrictions	Is a TSL required? Refer to the TSL decision matrix in CoPTTM (section E Appendix B)			
Plant and equipment	Will your plant and equipment fit within the designated working space?			
Personal safety	Are all workers able to carry out their work within the designated working space? If not are they covered by the rules for inspections?			
Layout diagrams	Is diagram(s) detailed in the generic TMP? Does the diagram(s) match the written section of the TMP?			
RCA notification	Has the RCA been notified?			

### Completed by:

STMS/TC in charge of worksite (All names to be entered before site set-up)					
	Name	Signature	Date	Qualification	ID number
	Name	Signature	Date	Qualification	ID number

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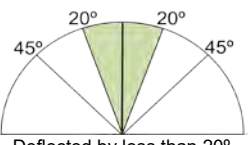
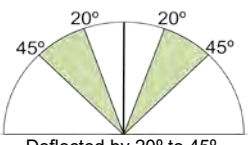
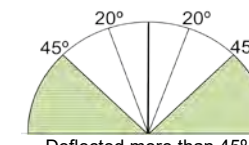


# TEMPORARY SPEED LIMIT (TSL) DECISION MATRIX WORKSHEET

## INSTRUCTIONS

Select the appropriate road condition description for each of the four factors, and in the right hand circle list the chosen TSL for that road condition. Transfer lowest TSL to the bottom circle.

## Appendix B

Possible  
Temporary  
Speed Limit

	EXCELLENT	AVERAGE	BELOW AVERAGE	POOR	
	  	 	 	  	
1. Minimum Lane Width	3.5m	3.25m	3.00m	2.75m	
2. Pavement / Surface Condition	The shoulder and lane is clear of loose or greasy material and the traveled way is smooth	The road is close to normal condition except for a few minor defects (eg small pot holes or a few pieces of loose aggregate) <b>70km/h</b> where new seal has been swept but not marked	Defects and / or loose material on the lane (eg unattended reseals) <b>50km/h</b> for protection of a new seal	There are major defects and / or significant loose material on the lane (eg recently milled surface, large stones, steel plates)	
3. Visibility and Alignment	There is greater than 140m visibility to the first cone in taper, <b>and</b> the worksite has not imposed a change in alignment	There is less than 140m visibility to the first cone in taper, <b>or</b> vehicles are deflected by 20 degrees or less from the original direction of travel 	There is less than 60m visibility to the first cone in taper, <b>or</b> vehicles are deflected by 20-45 degrees from the original direction of travel 	There is less than 30m visibility to the first cone in taper, <b>or</b> vehicles are deflected by more than 45 degrees from the original direction of travel 	
4. Site Clutter	Low site clutter, clear vehicle lanes, cycle lanes and footpaths	Some site clutter either plant or materials, vehicle lanes, cycle lanes and footpaths are lightly trafficked	Considerable site clutter requires additional management to guide vehicles though the site. Some queues of road users	Has numerous driver distractions including construction traffic. Cycle lanes or footpaths are closed. <b>30km/h</b> for portable traffic signals, MTC operations or where traffic has to traverse the actual active working space (either in a delineated single lane or where traffic is not separated from the working space)	

Is the lowest speed 80km/h or less and at least 10km/h below the permanent speed?

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Yes

No

Use this Temporary Speed Limit

No Temporary Speed Limit Required

30

[Click here to reset](#)

















# CC5 Footpath controller guiding pedestrians past the working space

**Static operations**

**FOOTPATH**

Footpath controller used to guide pedestrians safely past the working space  
Not to be used on a Main Road as classified by WCC

1. To be used where foot traffic is low (no more than 15 people per hour - 1 person every 4 minutes)
2. No footpath directional signs required
3. Footpath controller must stop work and guide pedestrians past the working space (providing assistance as required)
4. Depending on the volume of foot traffic, an extra person may be required to act as Footpath controller
5. For all attended sites, cones can be used to delineate the edge of the working space and traffic side of the temporary walkway
6. The 1m lateral safety zone between the traffic side of the footpath and the live lane will not be required if the:
  - pedestrian diversion is into a shoulder (including parking lane) of carriageway (and not encroaching into the live lane), or
  - the temporary footpath encroaches into carriageway, but there is good alignment of traffic (taper) past temporary walkway, and
  - is not on a Main Road (as classified by WCC), a Major or Minor Distributor (as classified by HCC) or a Primary Arterial (as classified by UHCC)
6. Use kerb ramps (or available driveways) to assist mobility vehicles, pushchairs etc
7. A safety fence is required around any excavations, falling hazards (e.g. open manhole) or mechanical equipment
8. This TMD may be used in conjunction with other forms of pedestrian management
9. This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane

CC5

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STMS Number 29097  
Upper Hutt City Council

26 January 2023

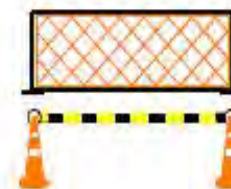
Methodology:

**PEDESTRIAN PROVISION**

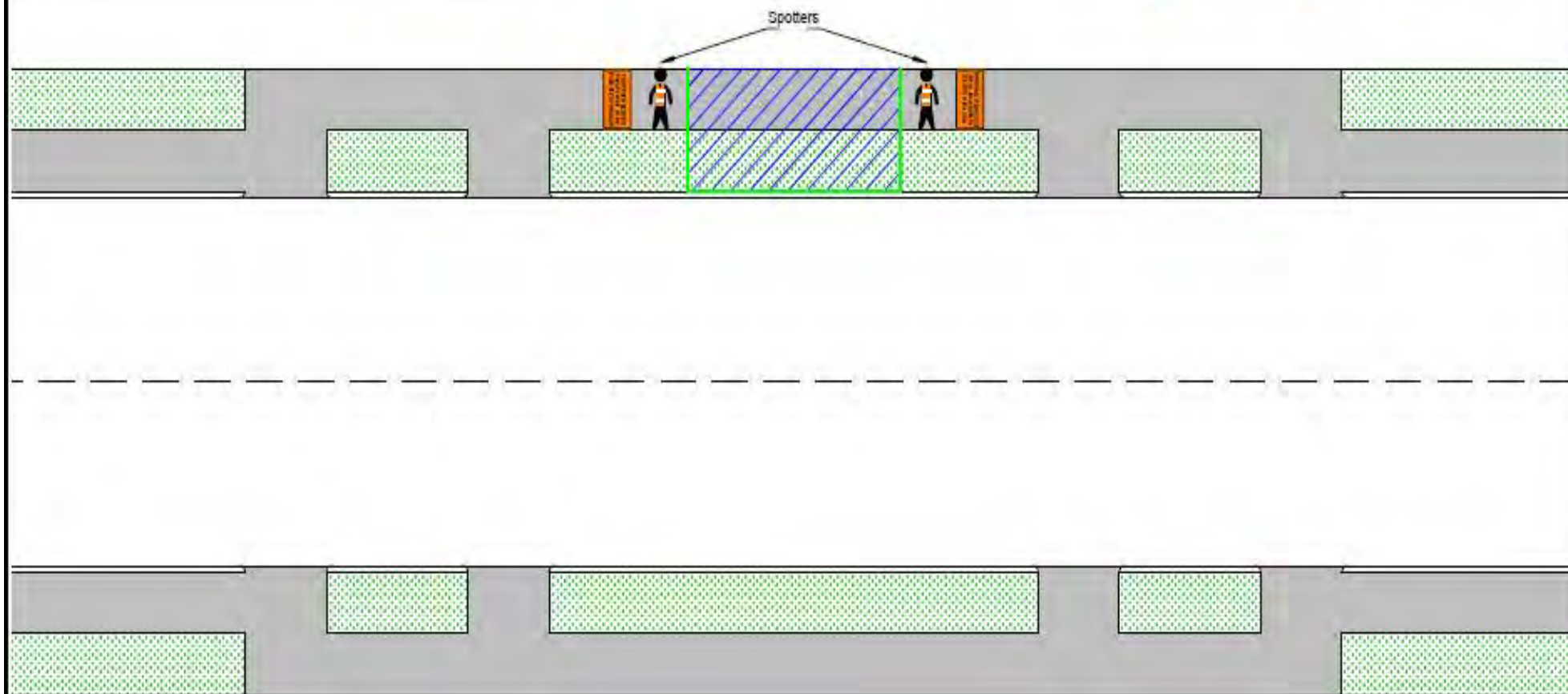
Detail:

FOOTPATH CLOSED - PEDESTRIANS ESCORTED

Restrictions:

**ROAD LEVEL:**  
ALL**SPEED LIMIT:**  
ALL**ATMS05**

STMS to consider if additional safety measures are appropriate to protect hazards / guide pedestrians past the site e.g. safety fencing / cone bars. This is particularly important around excavations. In some instances requirements may change between attended and unattended sites.

**Notes:**

- One spotter can be used over short distances where they can suitably control pedestrians through the working space i.e. 20m.
- This plan can ONLY be used during attended times.

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26 January 2023

**FOOTPATH CLOSED  
PLEASE WAIT TO BE  
ESCORTED THROUGH**



## FOOTPATH

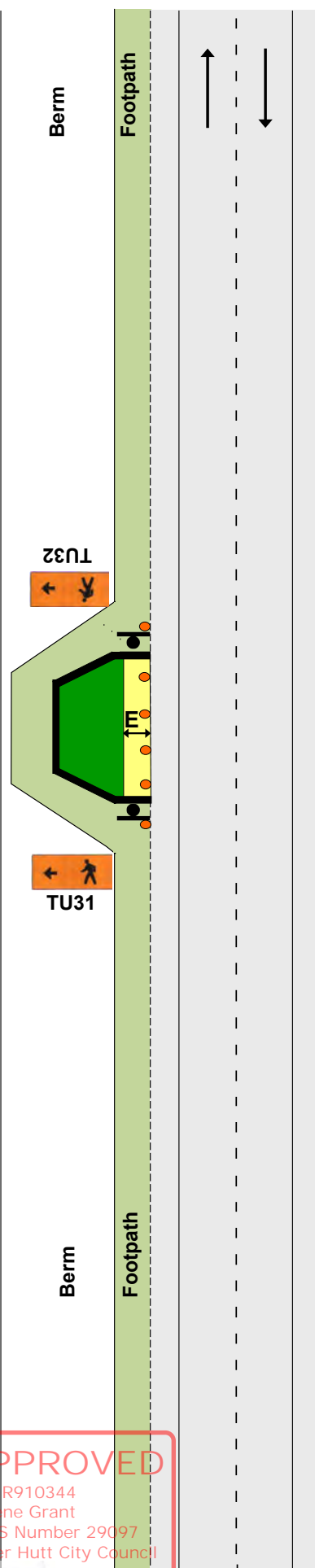
Footpath diverted onto berm behind working space

First preference

F2.1  
Level 1

## Notes

1. Minimum pedestrian footpath widths:
  - Residential/Rural/Suburban Centre - 1.2m
  - CBD - 2m
2. Where the length of the temporary footpath exceeds 20m, these widths may have to be increased so footpath users do not have to wait to pass
3. Temporary footpath surfaces must be suitable for footpath users
4. Use 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  
**Note:** Cone bars are not recommended where heavy equipment (eg a digger) is being used. A safety fence is preferred in these cases
5. This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane



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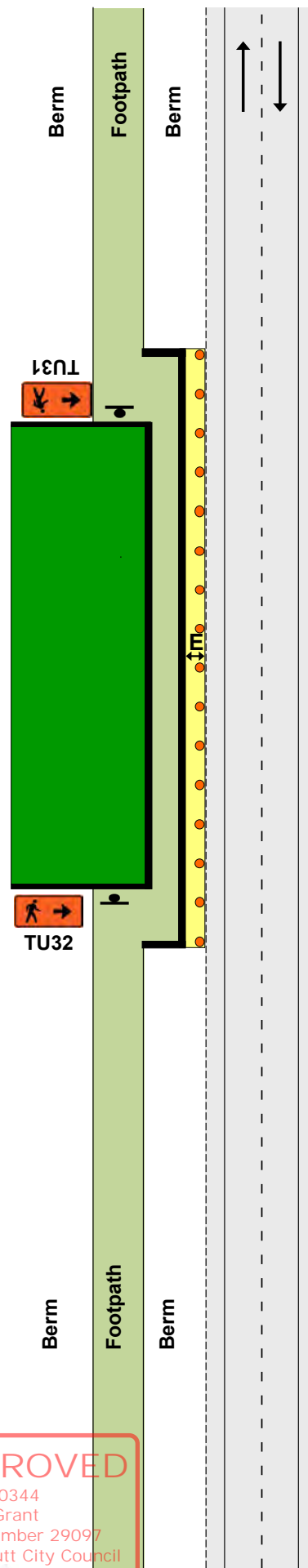
## FOOTPATH

Footpath diverted onto berm between working space and carriageway  
Second preference

F2.2  
Level 1

## Notes

1. Minimum pedestrian footpath widths:
  - Residential/Rural/Suburban Centre - 1.2m
  - CBD - 2m
2. Where the length of the temporary footpath exceeds 20m, these widths may have to be increased so footpath users do not have to wait to pass
3. Temporary footpath surfaces must be suitable for footpath users
4. Use 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  
**Note:** Cone bars are not recommended where heavy equipment (eg a digger) is being used. A safety fence is preferred in these cases
5. Use barrier or safety fence to delineate the traffic side of the footpath, or at **attended** worksites cones connected with cone bars can be used to delineate the traffic side of the footpath for a short period of time (not for use on state highways)
6. There must be a lateral safety zone between the traffic side of the footpath and the live lane:
  - 0.5m for barrier
  - 1m for safety fence or cone bars
7. This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane



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## FOOTPATH

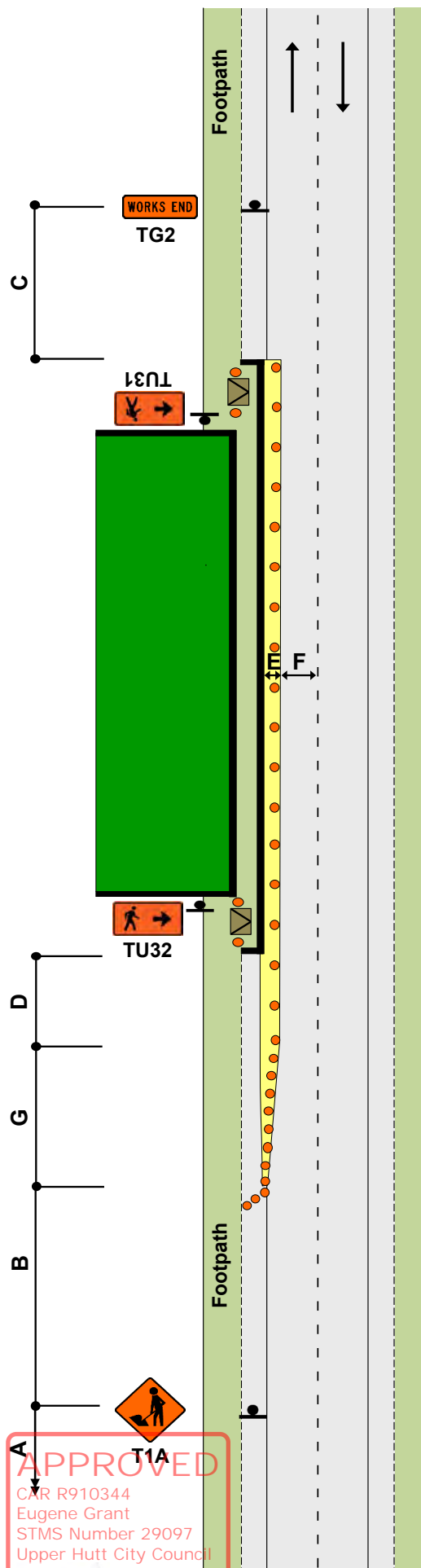
## Footpath diverted onto carriageway

## Third preference

F2.3  
Level 1

## Notes

1. Minimum pedestrian footpath widths:
  - Residential/Rural/Suburban Centre - 1.2m
  - CBD - 2m
2. Where the length of the temporary footpath exceeds 20m, these widths may have to be increased so footpath users do not have to wait to pass
3. Use 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  
**Note:** Cone bars are not recommended where heavy equipment (eg a digger) is being used. A safety fence is preferred in these cases
4. Use barrier or safety fence to delineate the traffic side of the footpath, or at **attended** worksites cones connected with cone bars can be used to delineate the traffic side of the footpath for a short period of time (not for use on state highways)
5. There must be a lateral safety zone between the traffic side of the footpath and the live lane:
  - 0.5m for barrier
  - 1m for safety fence or cone bars
6. Use kerb ramps to assist mobility vehicles, pushchairs, etc
7. At night-time, corners of safety fence may be illuminated with flashing amber warning lights
8. This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane





## FOOTPATH

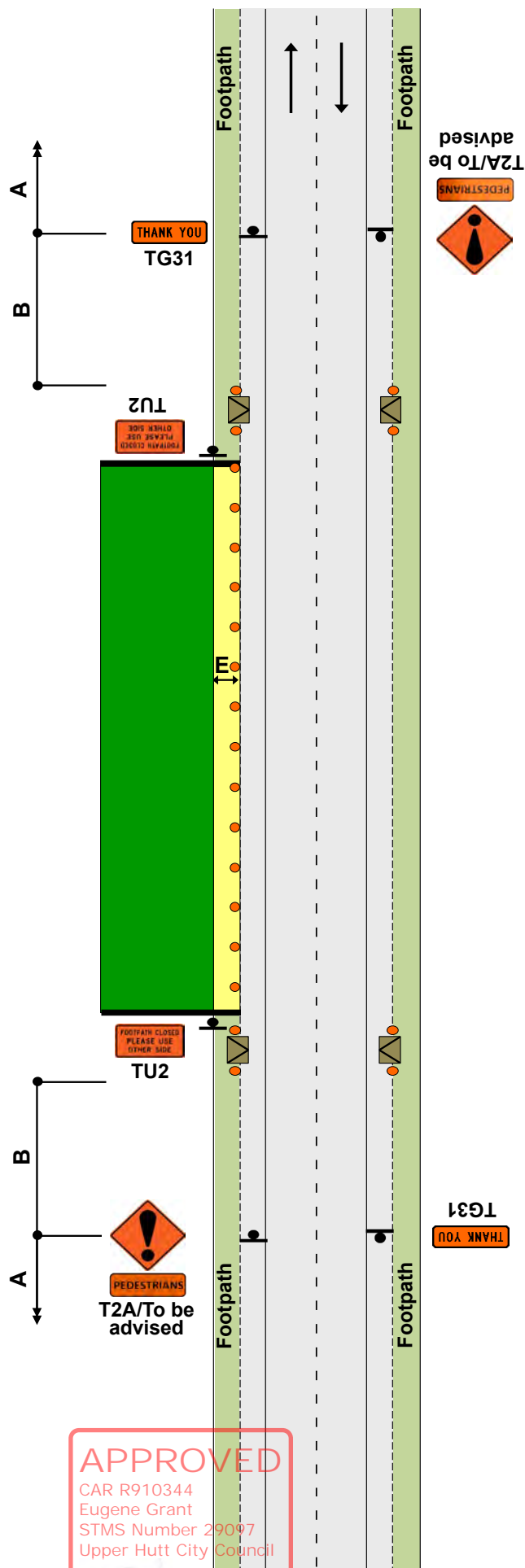
Footpath closed - permanent speed less than 65km/h

#### Fourth preference

## F2.4 Level 1

## Notes

1. Use T2A and PEDESTRIANS supplementary plate to alert road users to the potential of footpath users crossing the carriageway
2. Use safety fence at each end of working space
3. Use kerb ramps
4. Use another TMD as well, where working space/safety zone encroaches on live lane
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. All other options have to have been considered including escorting pedestrians through/around the site.
7. TMC APPROVAL REQUIRED



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## SHOULDER AND ROADSIDE ACTIVITIES

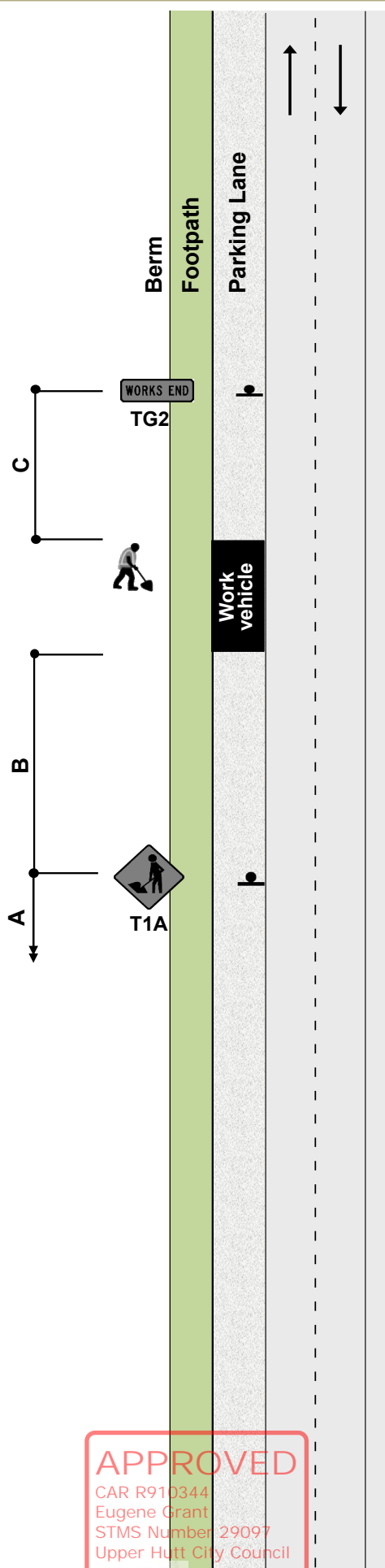
Work on berm and/or footpath

Permanent speed less than 65km/h

F2.5  
Level 1

## Notes

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 T1A road works and TG2 WORKS END are optional
2. Traffic management must be provided where footpath users or cyclists are affected
3. This layout may only be used during daylight hours
4. Large plant and machinery must not be used in this situation, a more substantial closure is required



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## SHOULDER AND ROADSIDE ACTIVITIES

## Work in parking lane

Permanent speed less than 65km/h

F2.6  
Level 1

## Notes

1. Where work is carried out in the legal parking lane (a place where a vehicle would normally park with a footpath and/or kerb and channel alongside), the following minimum standard of TTM must be provided:

- a 10m taper in front of the work vehicle
- cones alongside the work vehicle and the working space
- a longitudinal safety zone
- a 1m lateral safety zone along the working space
- a T1A (or other appropriate advance warning sign) mounted on the back of the work vehicle

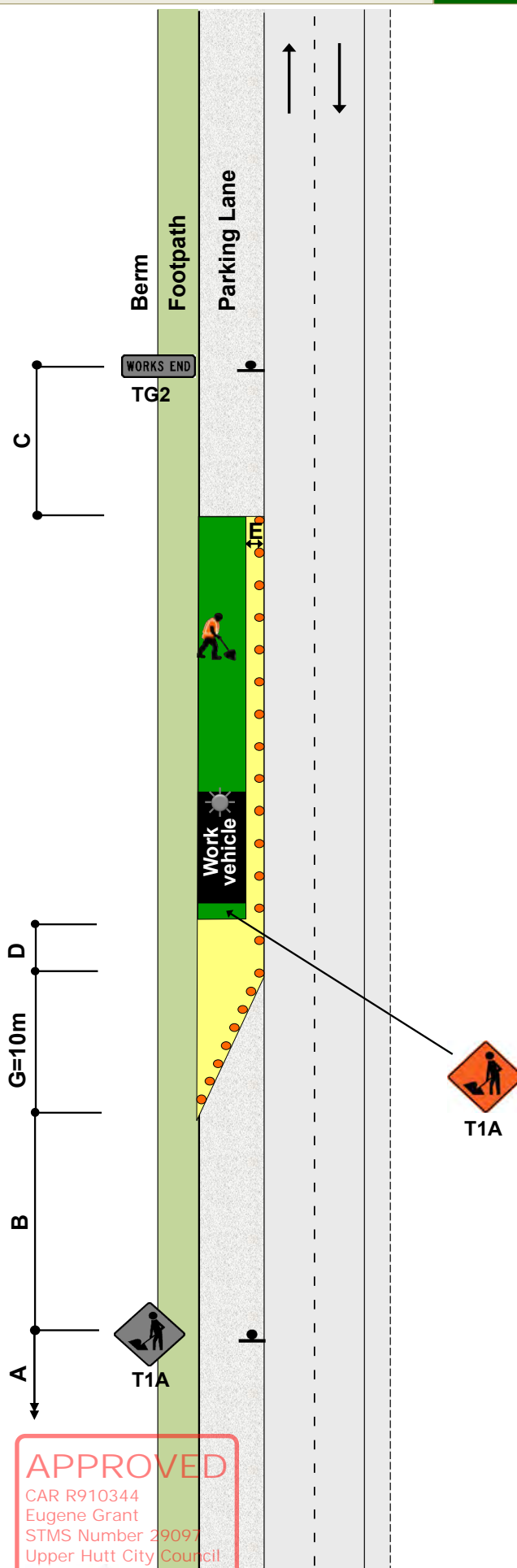
2. T1A road works and TG2 WORKS END signs are optional

3. The work vehicle must be no larger than a light truck and may have an amber flashing beacon

4. Traffic management must be provided where footpath users or cyclists are affected

5. This layout may only be used during daylight hours

6. Large plant and machinery must not be used in this situation, a more substantial closure is required



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## SHOULDER AND ROADSIDE ACTIVITIES

## Shoulder closure

F2.7

Level 1

## Notes

1. A 10m taper is allowed where shoulder width is less than 2.5m

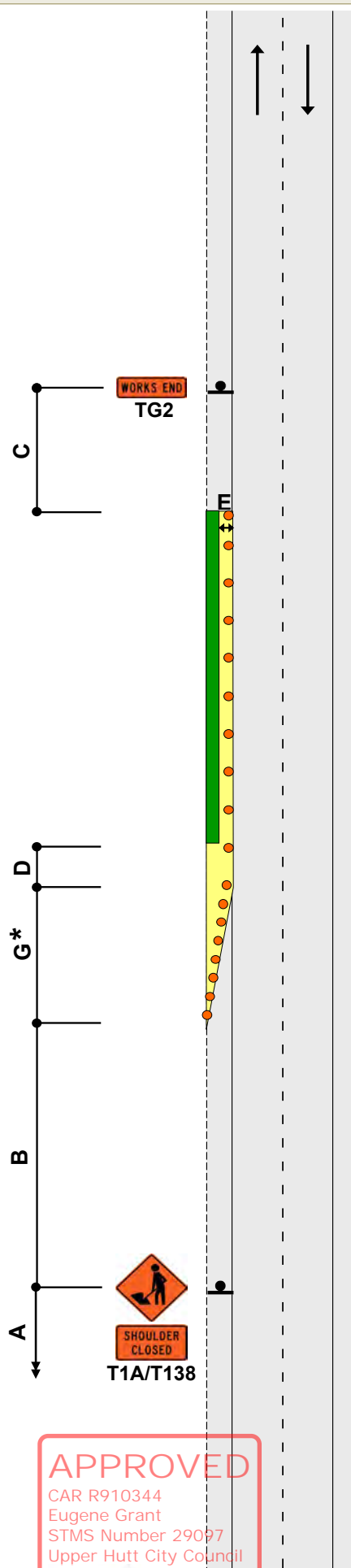
2. \*For shoulders exceeding 2.5m width, apply the following calculation; calculation of taper length for lateral shift of less than 3.5m is:

$$\frac{W \times G}{3.5}$$

3.5

W = Width of shoulder

G = Taper length in metres from the level 1 layout distance table



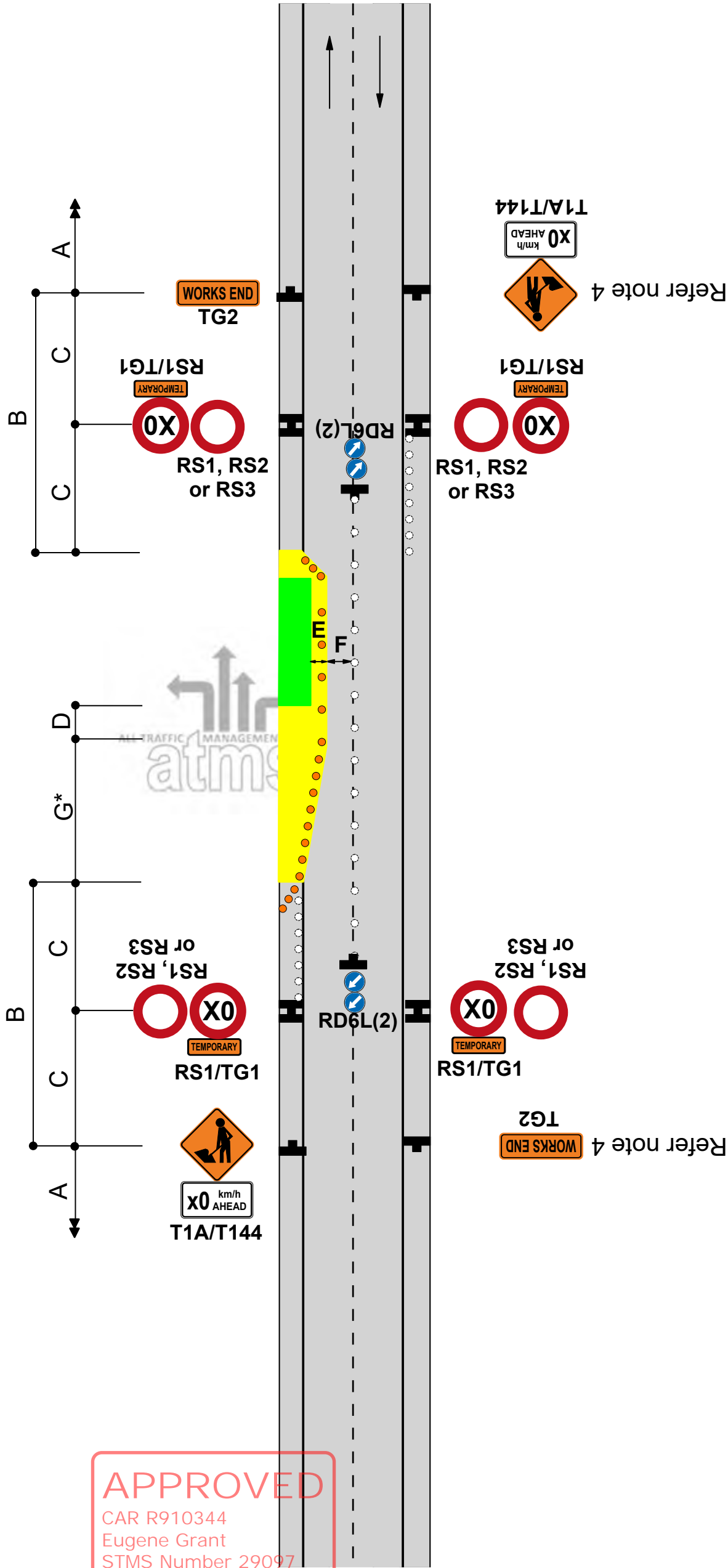
Static operations

TWO-WAY TWO-LANE ROAD  
Traffic not crossing road centre

F2.11  
Level 1

Notes

- 1.\*Calculation of taper length for lateral shift of less than 3.5m is:  
 $W \times G$   
3.5  
W = Width of lateral shift  
G = Taper length in metres from the level 1 layout distance table
- 2.If traffic likely to cross the centreline, place cones on the centreline with RD6L signs at each end
- 3.Use TSLs if required by TSL decision matrix
- 4.If TSLs not required, the T1A and TG2 signs on the right hand side of the road are also not required
- 5.The T144 X0km/h AHEAD sign is optional



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## TWO-WAY TWO-LANE ROAD

### Traffic not crossing road centre

### Signs on median

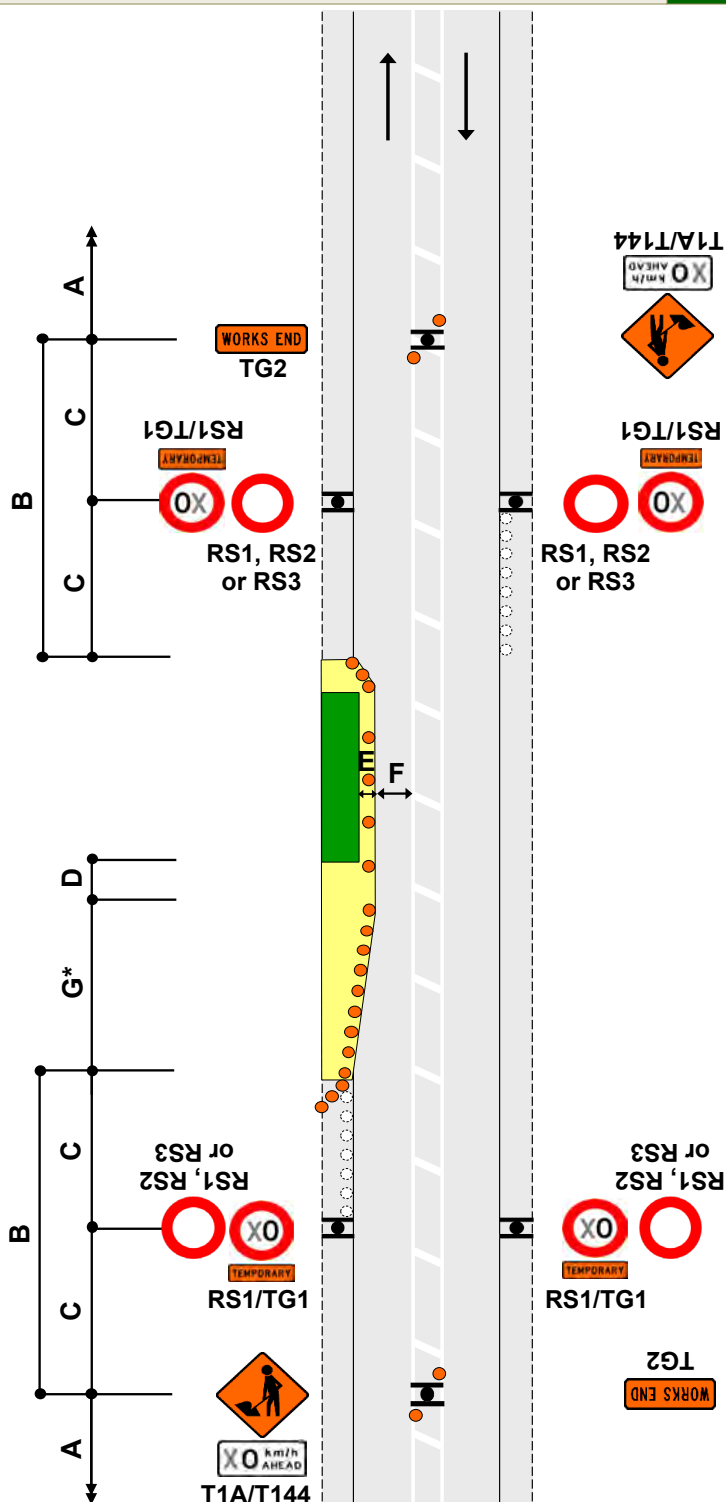
F2.12  
Level 1

#### Notes

1. Use this diagram if signs will not be visible on left-hand side of road, or if it is safer to place signs on median and this will not interfere with turning traffic movements
2. Where a median exists which is more than 2m wide, the signs may be positioned on the median. Signs must be placed back-to-back unless on a solid median
3. Where there is a solid median, signs are not required in the opposing direction
4. \*Calculation of taper length for lateral shift of less than 3.5m is:  

$$\frac{W \times G}{3.5}$$

W = Width of lateral shift  
 G = Taper length in metres from the level 1 layout distance table
5. Use TSLs if required by TSL decision matrix
6. The T144 X0km/h AHEAD sign is optional



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## INSPECTION ACTIVITIES AND NON-INVASIVE WORKS

## On shoulder and on the live lane

This TMD may also be applied on level LV roads

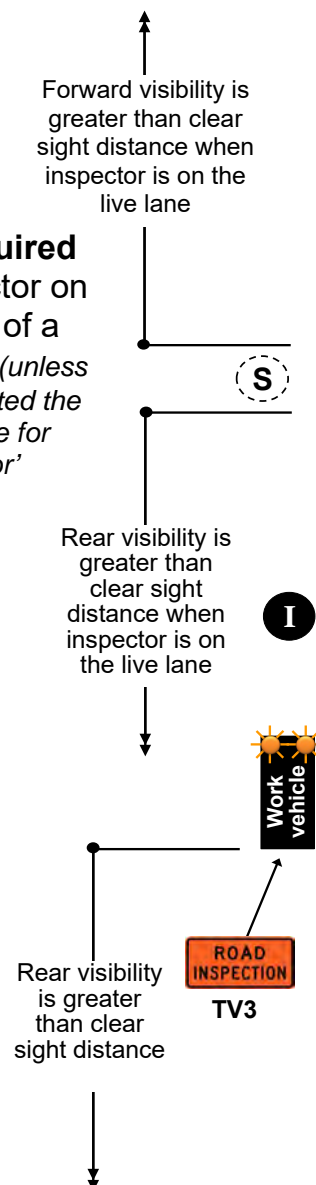
F4.10

Level 1

## Notes

1. Inspectors must move from live lanes to avoid traffic. They must not expect traffic to drive slowly or drive around them
2. On level LV and level 1 roads, a person completing an inspection or non-invasive works cannot be on a live lane for more than 5 minutes
3. Unless otherwise approved by the RCA, all inspections on the live lane of level 1 roads require a spotter. The RCA may provide a list of roads, times and/or activities suitable for inspection by a single inspector
4. There must be CSD to the inspector when on the live lane. If this cannot be achieved, a spotter must be placed in a position where CSD can be attained and verbal instructions be given to the inspector. If this is not possible, a static or mobile operation is required.
5. A spotter is not required for inspections and non-invasive works on level LV roads or working off the live lane of a level 1 road
6. Where an unaccompanied inspector is not able to maintain adequate attention (eg due to work tasks or poor visibility), a spotter will be required or another type of traffic management operation used
7. For inspection activities that are carried out by a TC on level LV and level 1 roads the STMS must be immediately contactable but does not have to be within 30 minutes travel time of the worksite
8. An unaccompanied inspector may walk across a level LV or level 1 road
9. A vehicle is not required on a level LV or level 1 road with a permanent speed of less than 65km/h if the inspector remains on a footpath
10. On roads with a permanent speed of less than 65km/h an amber flashing beacon is not required on the vehicle if the inspector or non-invasive works is on an unsealed shoulder (or further away from the carriageway - including a footpath)

**Spotter required**  
when inspector on  
the live lane of a  
level 1 road *(unless  
RCA has selected the  
road as suitable for  
'single inspector'  
inspections)*



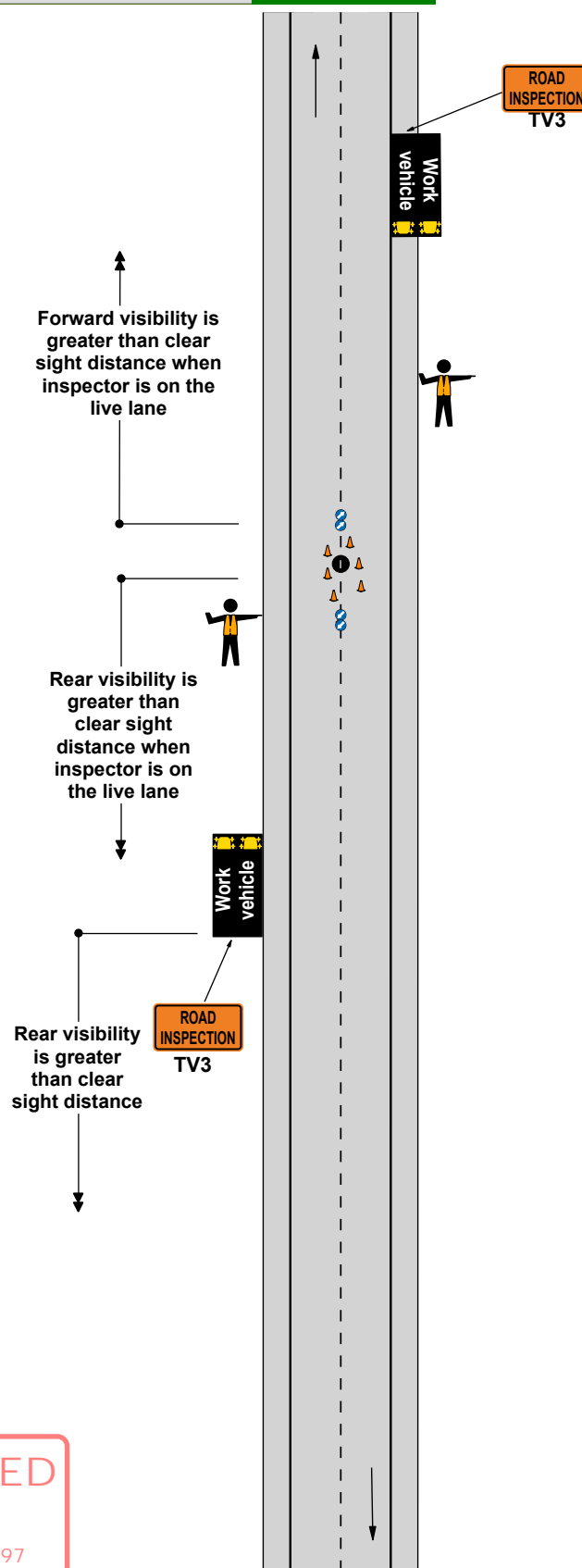
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## Mobile operations

**INSPECTION ACTIVITIES AND NON-INVASIVE WORKS****Inspection Activity - Centre Of Road****This TMD may also be applied on level LV roads****ATMS07****Level 1****Notes**

1. Inspectors must move from live lanes to avoid traffic. They must not expect traffic to drive slowly or drive around them
2. On level LV and level 1 roads, a person completing an inspection or non-invasive works cannot be on a live lane for more than 5 minutes
3. Unless otherwise approved by the RCA, all inspections on the live lane of level 1 roads require a spotter. The RCA may provide a list of roads, times and/or activities suitable for inspection by a single inspector
4. There must be CSD to the inspector when on the live lane. If this cannot be achieved, a spotter must be placed in a position where CSD can be attained and verbal instructions be given to the inspector. If this is not possible, a static or mobile operation is required.
5. Where an unaccompanied inspector is not able to maintain adequate attention (eg due to work tasks or poor visibility), a spotter will be required or another type of traffic management operation used
6. For inspection activities that are carried out by a TC on level LV and level 1 roads the STMS must be immediately contactable but does not have to be within 30 minutes travel time of the worksite
7. Inspectors **MUST** use 2 vehicles placed on either side of road shoulder. Inspector & spotter will use footpath to carry cones and cross when way is clear. Cones will be placed (min of 4 each direction) for protection. Spotter must not engage in work activities.

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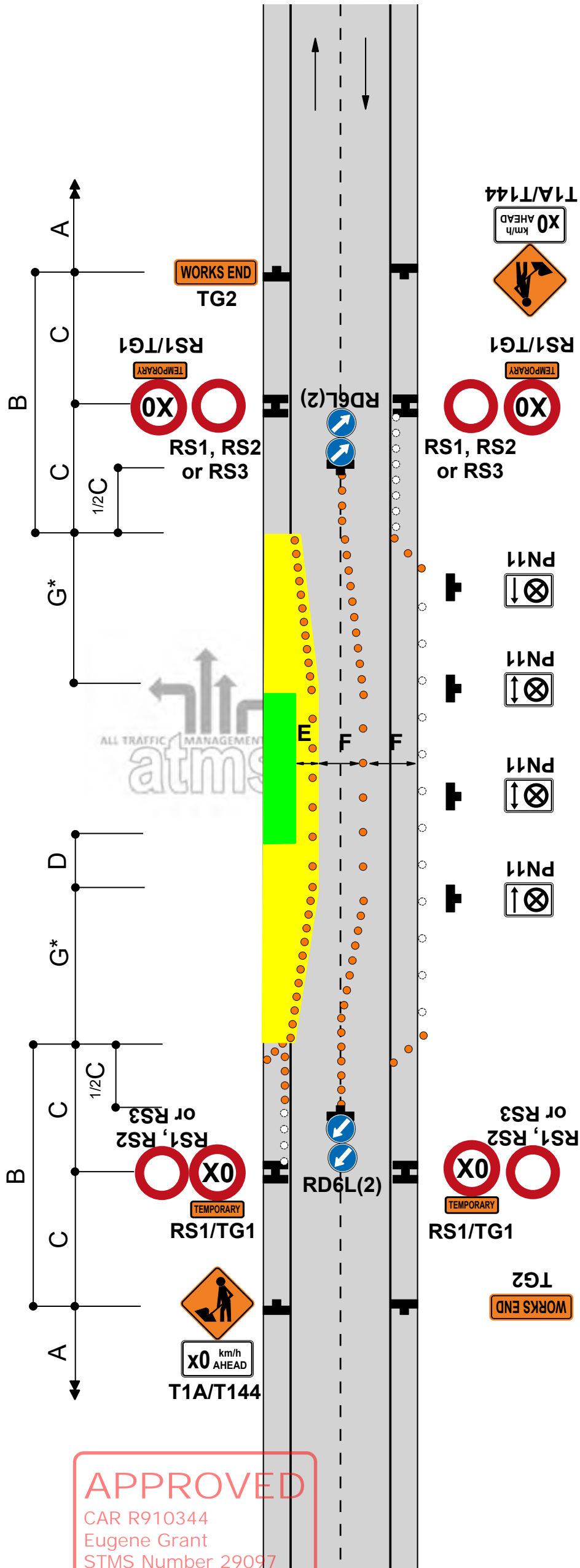
Static operations

TWO-WAY TWO-LANE ROAD  
Traffic crossing road centre  
Two lane diversion

F2.13  
Level 1

Notes

1. Cones are required on edge of the temporary lane opposite closure if road is not well defined
2. Return taper at end of closure may be shortened
3. \*Calculation of taper length for lateral shift of less than 3.5m is:  
 $W \times G$   
3.5  
W = Width of lateral shift  
G = Taper length in metres from the level 1 layout distance table
4. To allow heavy vehicles to manoeuvre, cones in the channel must be offset by at least 10m where the direction changes. Refer C8.2.12
5. Use PN11 No Stopping signs, if necessary
6. Use TSLs if required by TSL decision matrix
7. The T144 X0km/h AHEAD sign is optional



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# TWO-WAY TWO-LANE ROAD

## Single-lane alternating flow

### Portable e-STOP

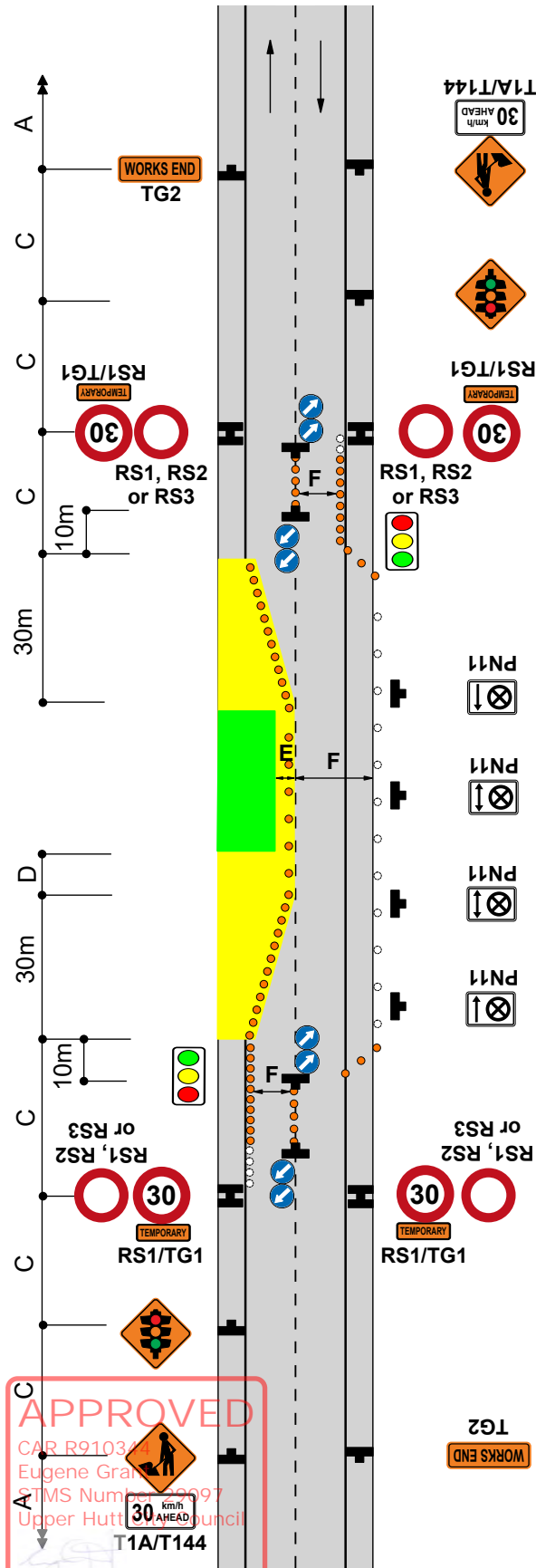
**ATMS02**  
**Level 1**

#### Notes

1. Provide details of make and model of portable traffic signals in the TMP
2. Use PN11 no stopping signs, if necessary as per the approved TMP
3. Install temporary RP61/RP62 signs
 

STOP  
ON RED  
SIGNAL

STOP  
HERE  
ON RED  
SIGNAL
4. Minimum 5 cones in cone threshold.
5. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues
6. CONTINGENCY PLAN:  
F2.14 to be implemented should issues arise with e-STOP/ adverse weather conditions or where stop go is unsuitable.  
ex; Short term stoppages is defined as "stopping traffic for a short period of time within a static site, at inconsistent intervals to assist with the entry/exit of vehicles or small tasks required to be undertaken in the live lane".
7. In circumstances where for safety reasons, the use of stop/go operations is deemed more appropriate, a site specific safe work method statement must be prepared.
8. The T144 30km/h AHEAD sign is optional on roads under 65km/h
9. e-STOP can only be used on an attended site. e-STOPS must be manned at all times.



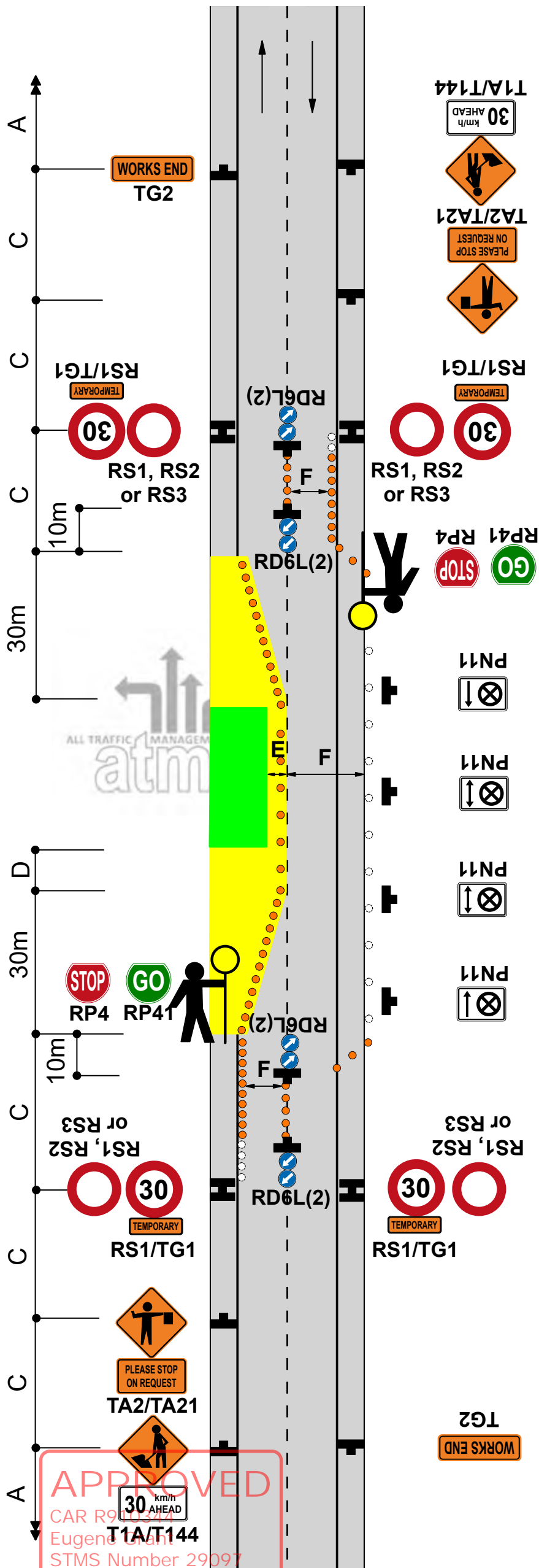
Static operations

TWO-WAY TWO-LANE ROAD  
Single-lane alternating flow  
Manual traffic control (STOP/GO or STOP/SLOW)

F2.14  
Level 1

Notes

1. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues
2. A 30m return taper at the end of the closure is mandatory
3. Cones are required on edge of the temporary lane opposite closure if road is not well defined
4. To allow heavy vehicles to manoeuvre, cones in the channel must be offset by at least 10m where the direction changes. Refer C8.2.12
5. Use PN11 no stopping signs, if necessary
6. MTC with RP4/RP41 STOP/GO or RP4/RP42 STOP/SLOW paddle on road shoulder located between 1st and 2nd cone in the cone threshold closest to the working space
7. Minimum 5 cones in cone threshold at:
  - 2.5m centres - less than 65km/h
  - 5m centres - more than 65km/h
8. Refer to C10.2.3 MTC essentials for further information
9. Delays cannot exceed the time approved by the RCA (normally 5 to 10 minutes)
10. The T144 30km/h AHEAD sign is optional





Static operations

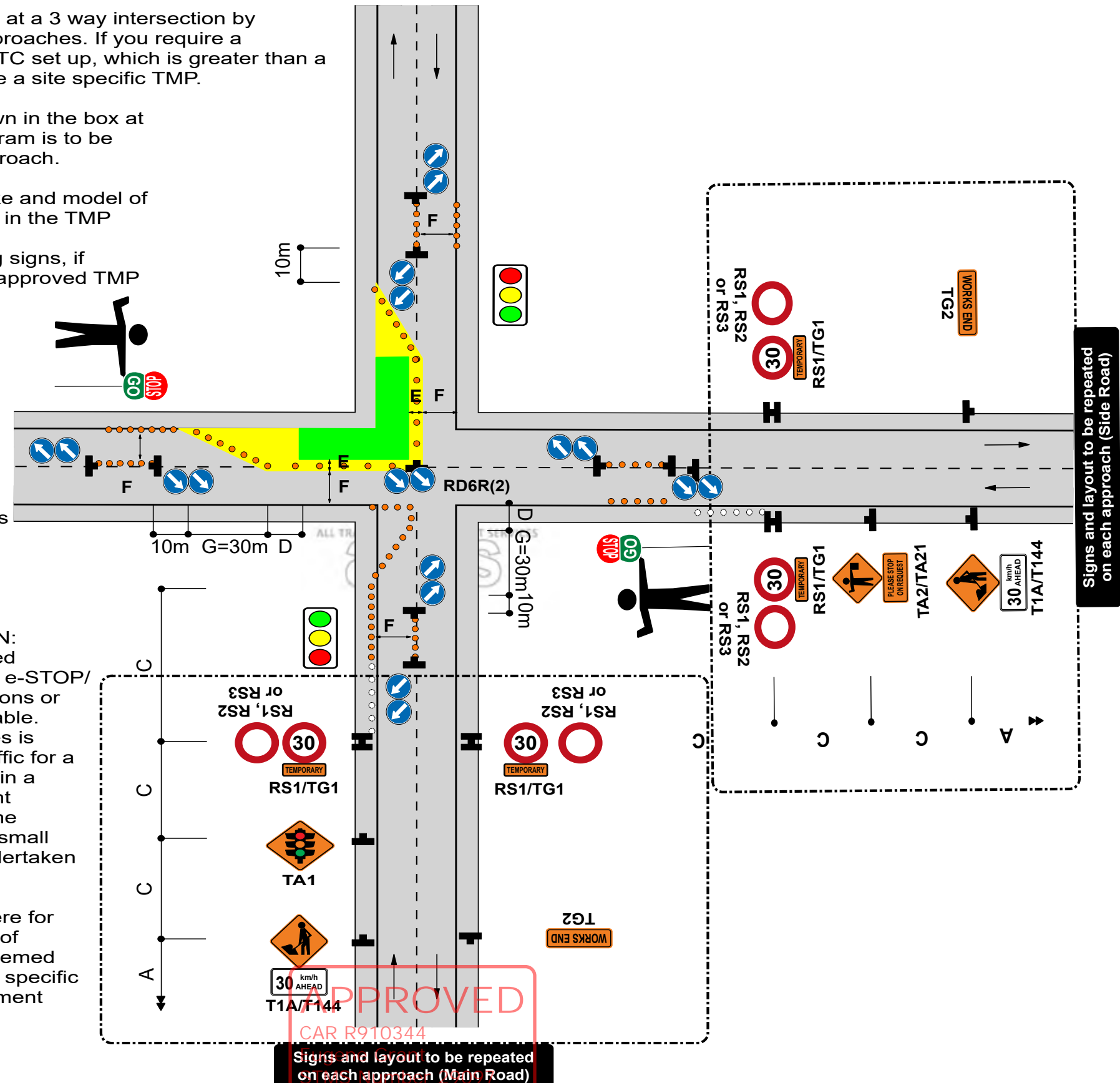
TWO-WAY TWO-LANE ROAD - Intersection or roundabout  
Closure at an intersection  
Portable e-STOP - with MTC on side roads

ATMS04

Level 1

Notes

- 1.This plan can be used at a 3 way intersection by removing one of the approaches. If you require a temporary traffic light/MTC set up, which is greater than a four way, you will require a site specific TMP.
- 2.Signs and layout shown in the box at the bottom of the diagram is to be repeated on each approach.
- 3.Provide details of make and model of portable traffic signals in the TMP
- 4.Use PN11 no stopping signs, if necessary as per the approved TMP
- 5.Install temporary RP61/RP62 signs  

- 6.Minimum 5 cones in cone threshold.
7. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues
- 8.CONTINGENCY PLAN:  
F2.22 to be implemented should issues arise with e-STOP/ adverse weather conditions or where stop go is unsuitable.  
ex; Short term stoppages is defined as "stopping traffic for a short period of time within a static site, at inconsistent intervals to assist with the entry/exit of vehicles or small tasks required to be undertaken in the live lane".
9. In circumstances where for safety reasons, the use of stop/go operations is deemed more appropriate, a site specific safe work method statement must be prepared.
- 10.The T144 30km/h AHEAD sign is optional on roads under 65km/h
11. e-STOP can only be used on an attended site. e-STOPS must be manned at all times.



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Signs and layout to be repeated  
on each approach (Main Road)

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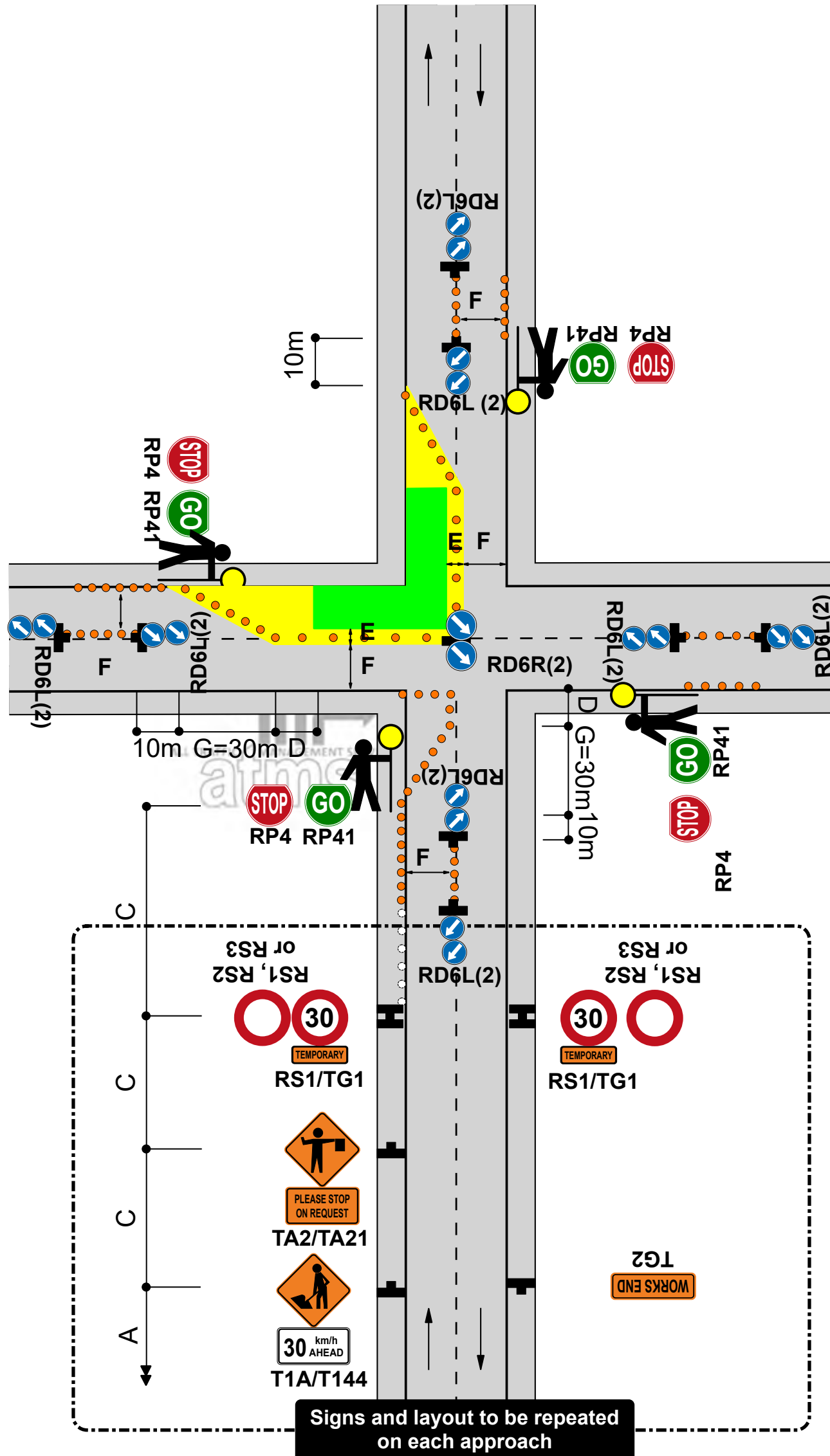
## Static operations

### TWO-WAY TWO-LANE ROAD - Intersection or roundabout Closure at corner of an intersection Manual traffic control (Stop/Go or Stop/Slow)

**F2.22**  
**Level 1**

#### Notes

1. This diagram may be used at a T intersection by removing any one of the roads
2. Signs and layout shown in the box at the bottom of the diagram is to be repeated on each approach
3. A 30m return taper at the end of the closure is mandatory
4. Use PN11 no stopping signs, if necessary
5. MTC with RP4/RP41 STOP/GO or RP4/RP42 STOP/SLOW paddle on road shoulder located between 1st and 2nd cone in the cone threshold closest to the working space
6. Minimum 5 cones in cone threshold at:
  - 2.5m centres - less than 65km/h
  - 5m centres - more than 65km/h
7. Refer to C10.2.3 MTC essentials for further information
8. On roads with a permanent speed limit of 100km/h, cones are required from the TSL to the taper if the speed is reduced by more than 30km/h
9. The T144 30km/h AHEAD sign is optional

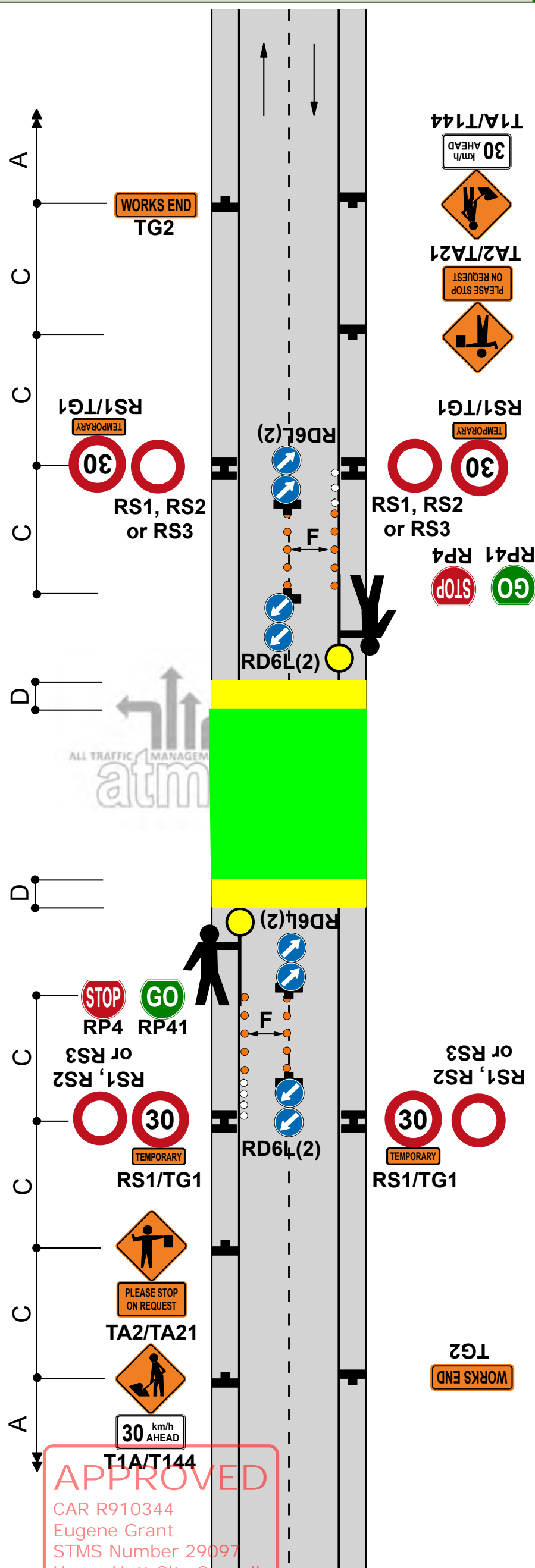


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**Static operations**
**TWO-WAY TWO-LANE ROAD**  
**All traffic stopped temporarily**  
**Manual traffic control (STOP/GO or STOP/SLOW)**
**F2.15**  
**Level 1**
**Notes**

1. Closure period not to exceed the limit set or approved by the RCA
2. Extend advance warning signs towards on-coming traffic beyond any expected traffic queues
3. MTC with RP4/RP41 STOP/GO or RP4/RP42 STOP/SLOW paddle on road shoulder located between 1st and 2nd cone in the cone threshold closest to the working space
4. Minimum 5 cones in cone threshold at:
  - 2.5m centres - less than 65km/h
  - 5m centres - more than 65km/h
5. MTCs must show same message to oncoming traffic (eg STOP/STOP or GO/GO)
6. Refer to C10.2.3 MTC essentials for further information
7. When road users are passing the working space in alternating flow, all construction equipment must be stopped on same side of the road if there is no separation from the live lane
8. Where damage is likely to occur to passing traffic eg during sealing, traffic must be stopped in both directions
9. The T144 X0km/h AHEAD sign is optional



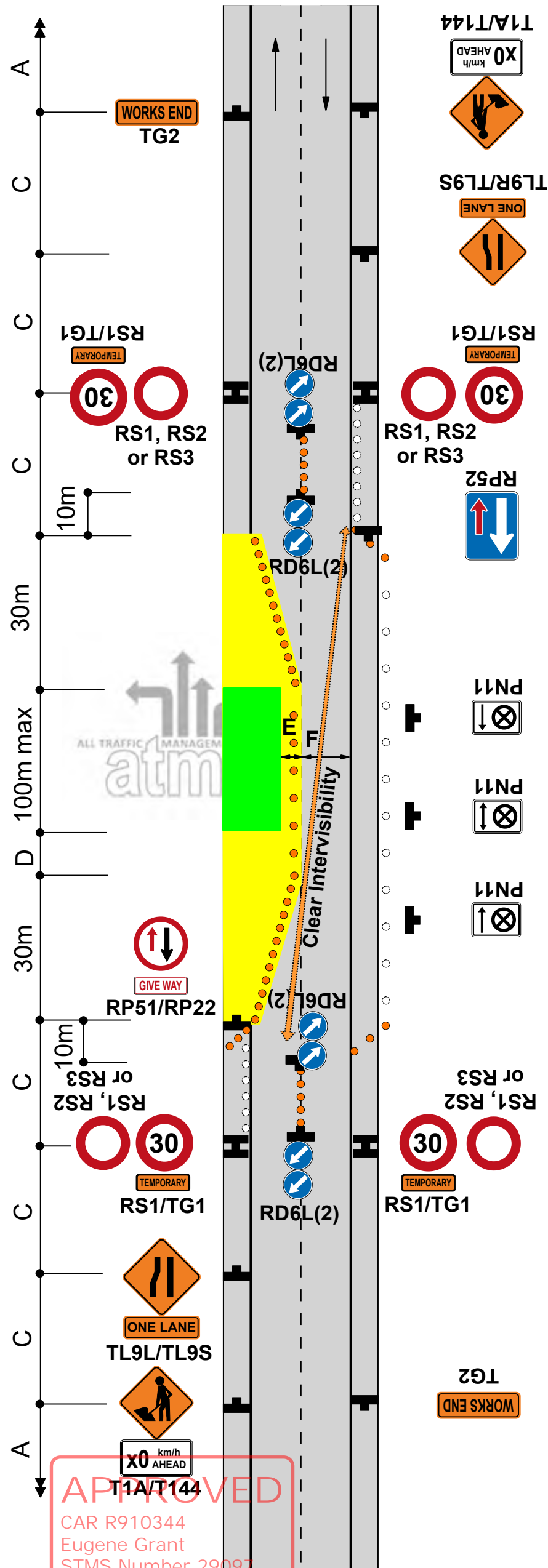
## Static operations

### TWO-WAY TWO-LANE ROAD Single-lane (traffic volume less than 1000vpd - 80vph) Give way control

**F2.16**  
**Level 1**

#### Notes

1. The RP51/RP22 and RP52 controls must be placed in the following priority order:
  - downhill traffic must give way to uphill traffic
  - traffic that has to cross into the opposing lane gives way, however where visibility for this vehicle is marginal the contractor may require the other vehicle with better visibility to give way
2. Intervisibility is required as indicated on diagram. This means that a vehicle at one sign is able to see whether the way ahead is clear
3. A 30m return taper at the end of the closure is mandatory
4. Use PN11 No Stopping signs, if necessary
5. Cones are required on edge of the temporary lane opposite closure if road is not well defined
6. The T144 X0km/h AHEAD sign is optional
7. **TMC APPROVAL REQUIRED FOR BOTH ATTENDED AND UNATTENDED SITES**





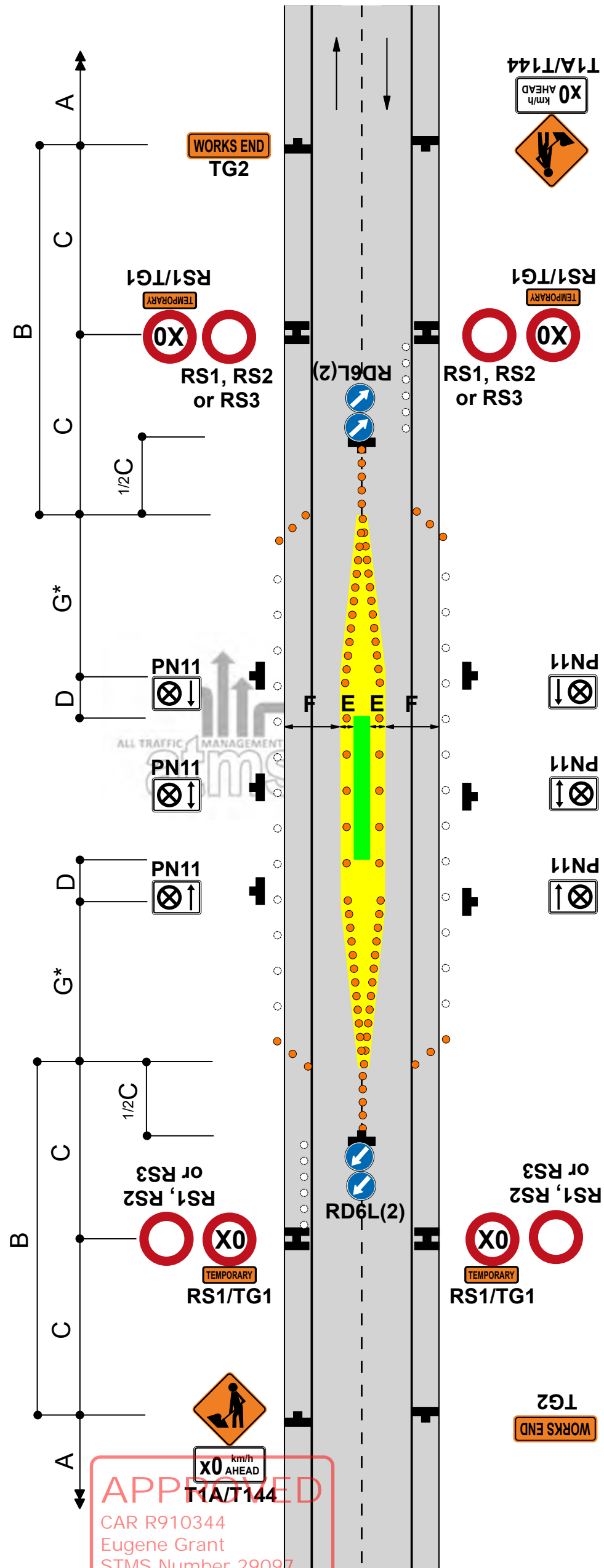
Static operations

TWO-WAY TWO-LANE ROAD  
Work in centre of road

F2.18  
Level 1

Notes

1. Cones are required on edge of the temporary lane opposite closure if road is not well defined
2. \*Calculation of taper length for lateral shift of less than 3.5m is:  
 $W \times G$   
3.5  
W = Width of lateral shift  
G = Taper length in metres from the level 1 layout distance table
3. Use PN11 no stopping signs, if necessary
4. Use TSLs if required by TSL decision matrix
5. The T144 X0km/h AHEAD sign is optional



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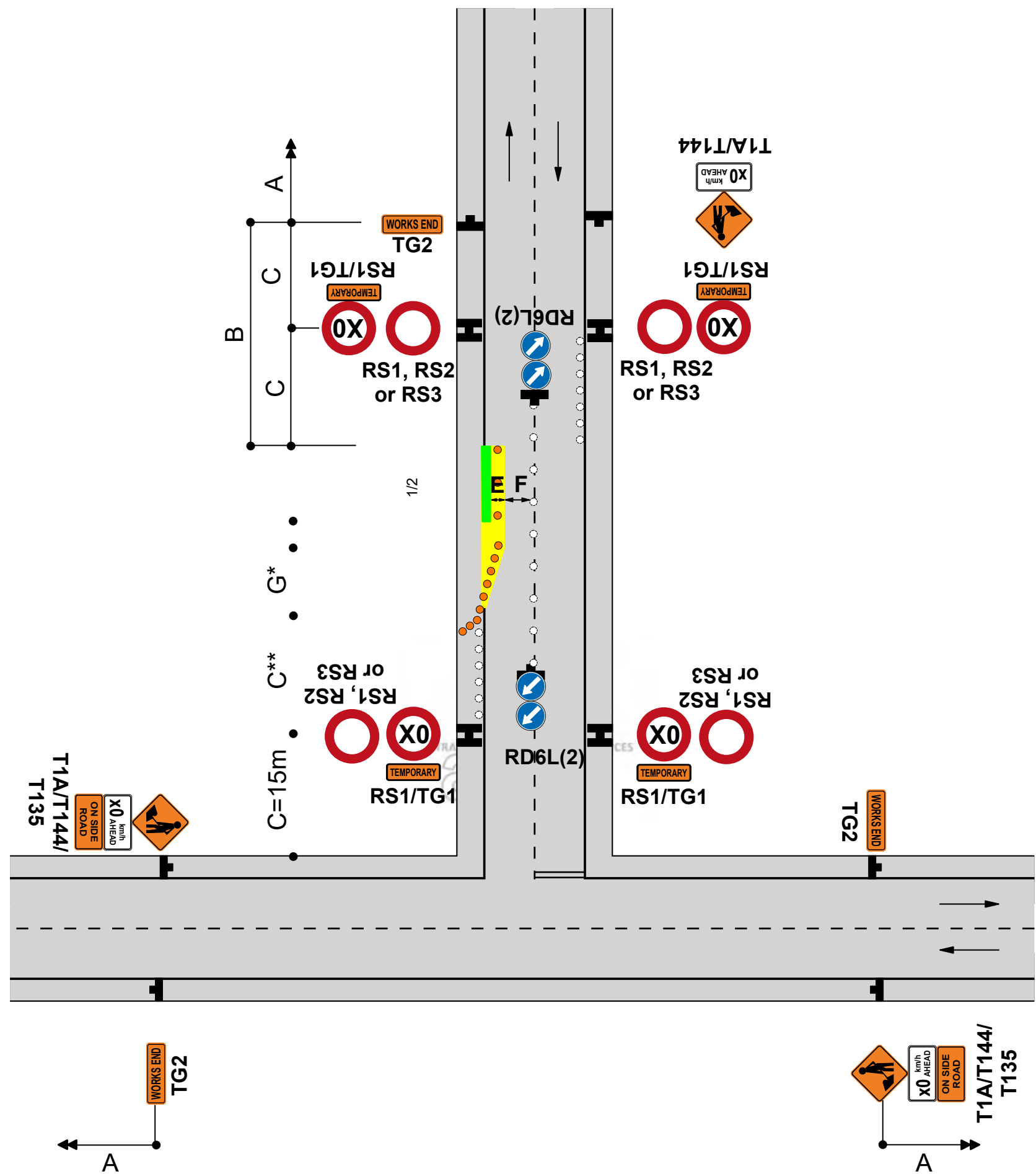
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Static operations

TWO-WAY TWO-LANE ROAD - Intersection or roundabout  
Road works on side road after intersection - TSL on side road  
Traffic not crossing road centre

F2.19  
Level 1



**Notes**

1. Sign spacing of TSL at the intersection can be reduced as per the table shown below
2. Where minimum dimensions cannot be achieved TMD F2.20 is to be used
3. Advance warning signs on main road must be at least the warning distance away from first cone in taper
4. \*Calculation of taper length for lateral shift of less than 3.5m is:  
 $W \times G \ W = \text{Width of lateral shift}$   
 $3.5 \ G = \text{Taper length in metres from the level 1 layout distance table}$
5. If traffic likely to cross the centreline, place cones on the centreline with RD6L signs at each end
6. Use TSLs as required by TSL decision matrix
7. The T144 30km/h AHEAD sign is optional

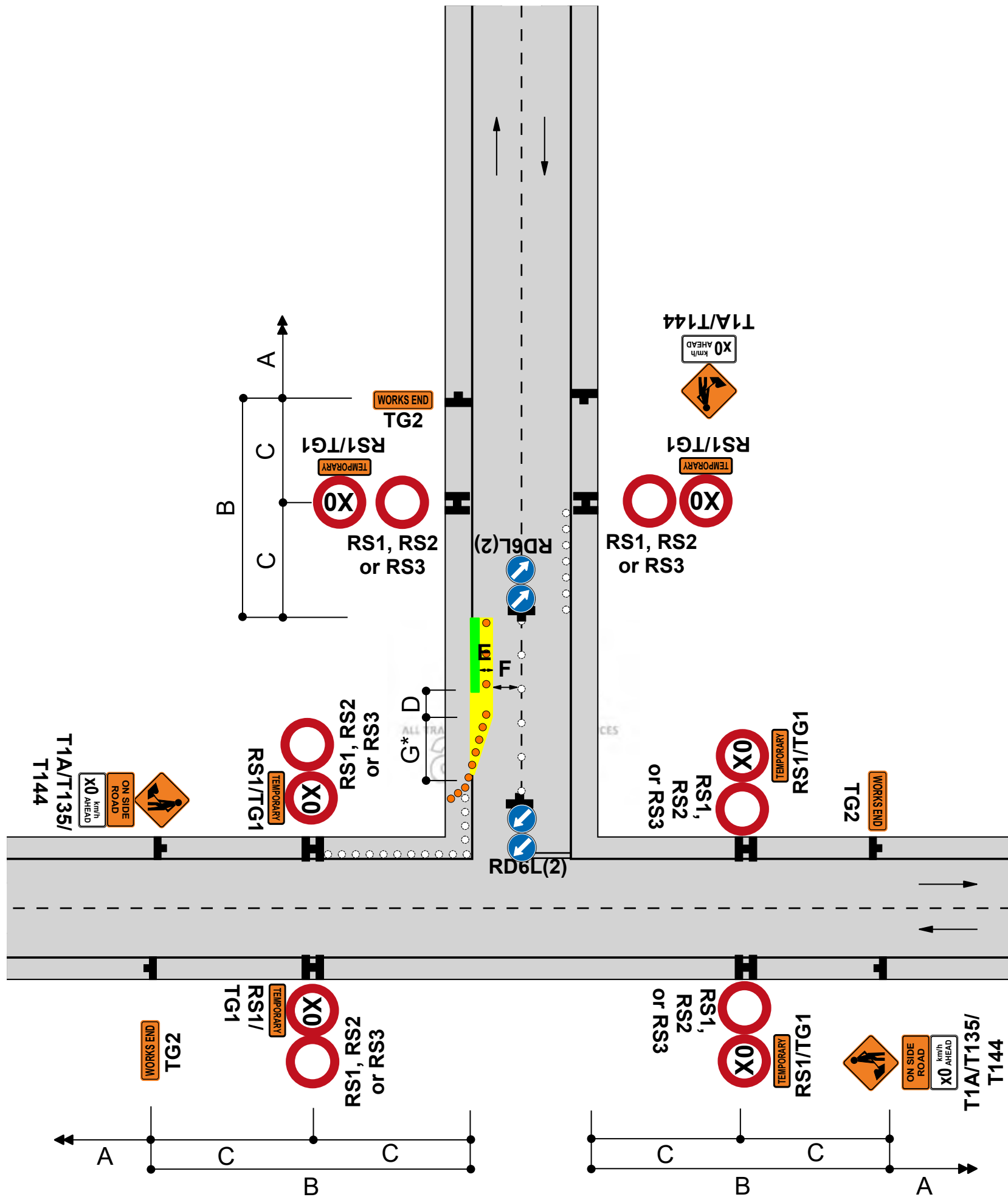
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Speed (PSL)	Intersection to TSL	TSL to taper	Total
<50km/h	15m	15m	30m
60km/h	15m	25m	40m
>70km/h	15m	40m	55m

## Static operations

**TWO-WAY TWO-LANE ROAD - Intersection or roundabout**  
**Road works on side road after intersection - TSL on main road**  
**Traffic not crossing road centre**

**F2.20**  
**Level 1**



### Notes

- \*Calculation of taper length for lateral shift of less than 3.5m is:  

$$\frac{W \times G}{3.5}$$

W = Width of lateral shift  
G = Taper length in metres from the level 1 layout distance table
- If traffic likely to cross the centreline, place cones on the centreline with RD6L signs at each end
- Use TSLs as required by TSL decision matrix
- The T144 X0km/h AHEAD sign is optional

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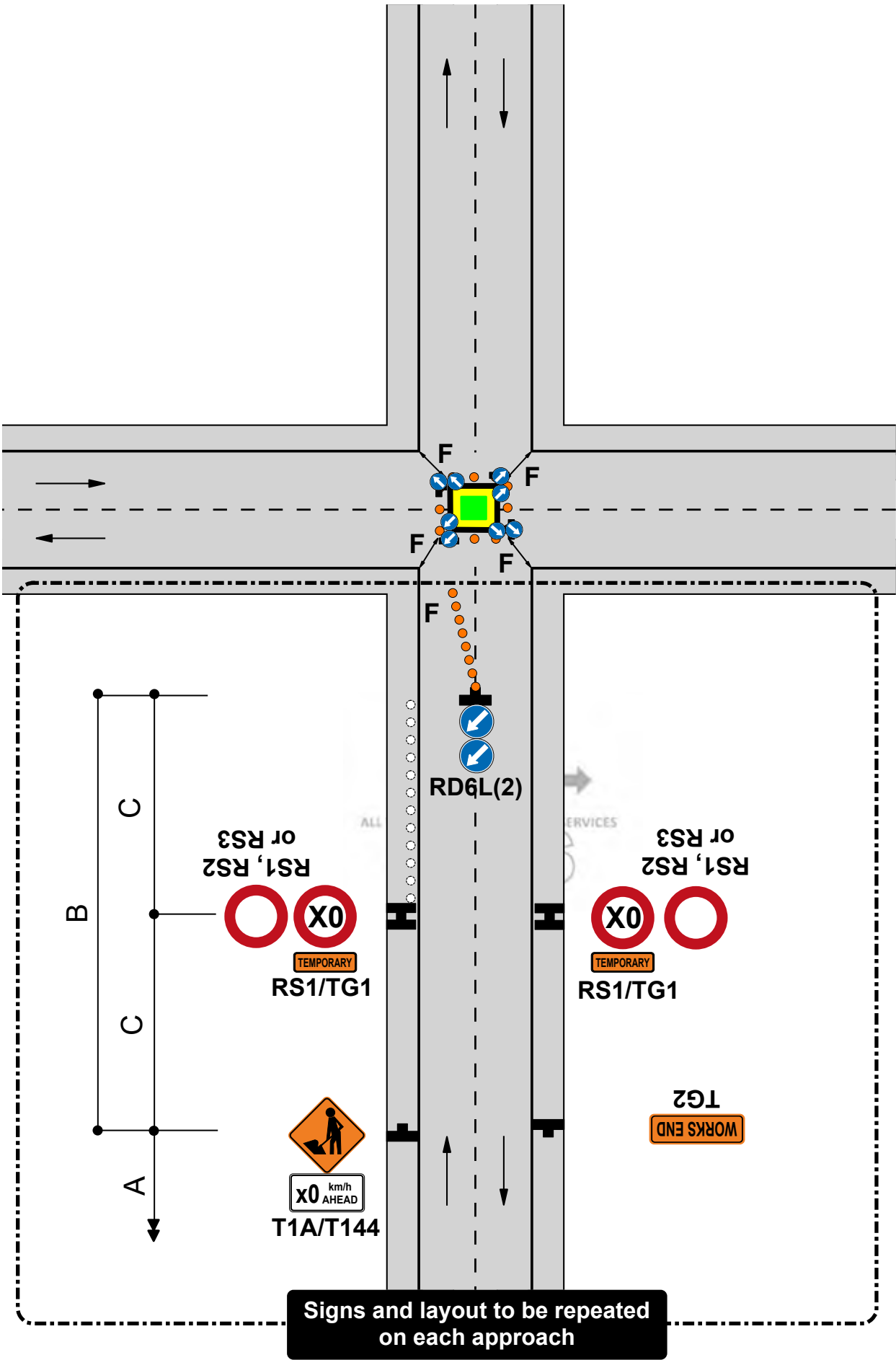
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Static operations

TWO-WAY TWO-LANE ROAD - Intersection or roundabout  
Work in middle of intersection

F2.21  
Level 1



Notes

- 1.This diagram may be used at a T intersection by removing any one of the roads
- 2.Signs and layout shown in the box at the bottom of the diagram is to be repeated on each approach
- 3.RD6L signs are not required at an existing roundabout
- 4.Cone tapers are optional at existing roundabouts
- 5.Lane widths, F, may need to be increased to allow for turning movements of larger vehicles
- 6.Use TSLs if required by TSL decision matrix
- 7.The T144 X0km/h AHEAD sign is optional

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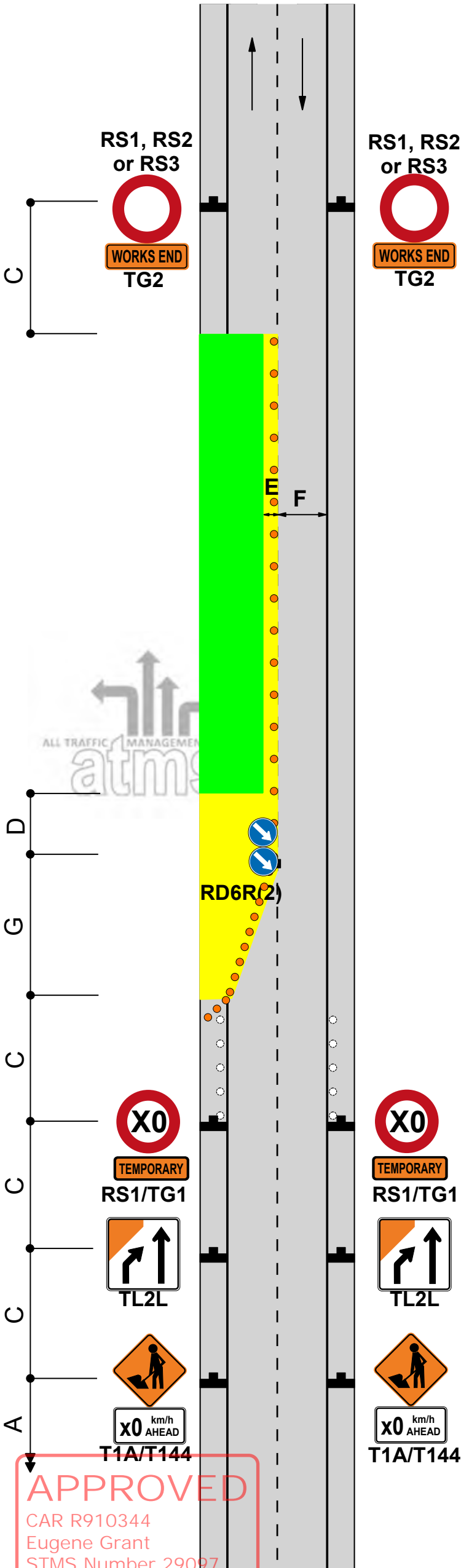
Static operations

ONE-WAY TWO-LANE DIVIDED OR TWO-LANE ROAD  
Left-lane closure

F2.30  
Level 1

Notes

- 1. Use TSLs if required by TSL decision matrix
- 2. On roads with a permanent speed limit of 100km/h, cones are required from the TSL to the taper if the speed is reduced by more than 30km/h
- 3. The T144 X0km/h AHEAD sign is optional



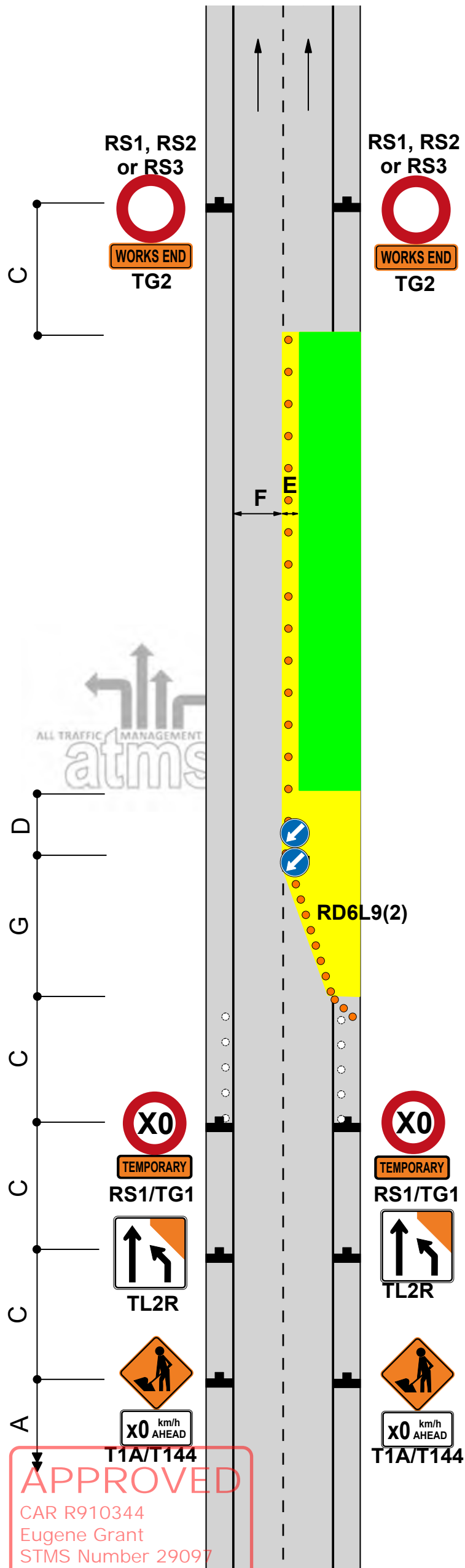
Static operations

ONE-WAY TWO-LANE DIVIDED OR TWO-LANE ROAD  
Right-lane closure

F2.31  
Level 1

Notes

1. Use TSLs if required by TSL decision matrix
2. On roads with a permanent speed limit of 100km/h, cones are required from the TSL to the taper if the speed is reduced by more than 30km/h
3. The T144 X0km/h AHEAD sign is optional



TWO-WAY TWO-LANE ROAD

Other hazard

Flooding, washout, slip, slippery surface






F2.26

Level 1

Notes

1. This diagram is for initial response only. Appropriate long term TTM must be installed as soon as practical

2. Use one of the following signs and/or supplementary plates:

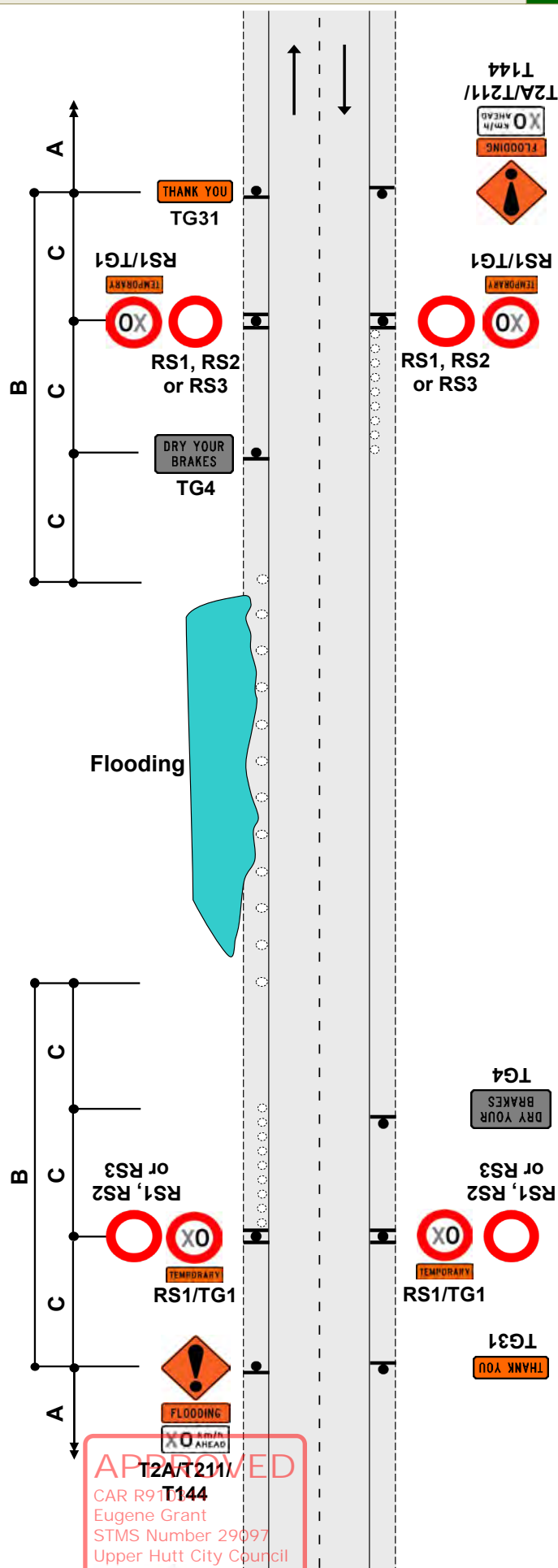
T211		Flooding
T212		Washout
TR1L/R		Slips
TR2		Slippery Surface
TR4		Uneven Surface

3. If necessary, erect TG4 DRY YOUR BRAKES sign

4. Delineate hazard if hazard extends onto lane

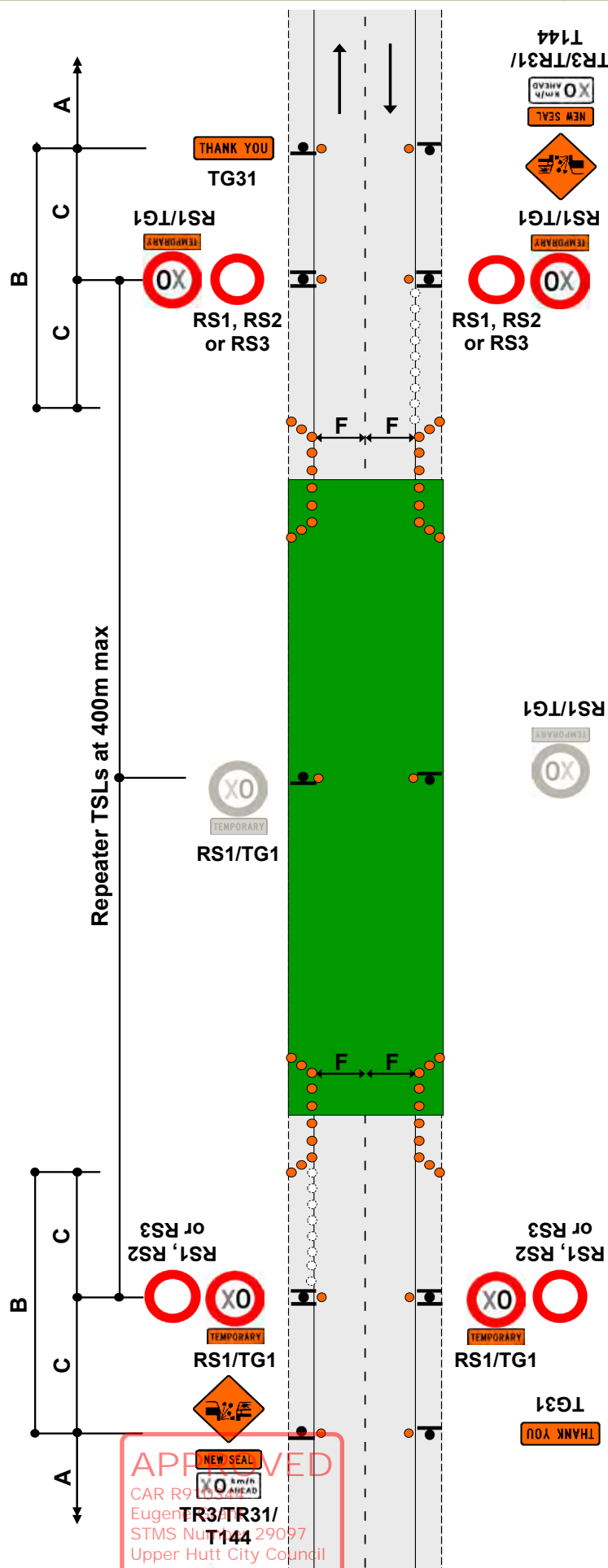
5. Use TSLs if required by TSL decision matrix

6. The T144 X0km/h AHEAD sign is optional



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1. Use TSLs if required by TSL decision matrix
2. Worksites need positive traffic management to ensure all road users travel at the TSL
3. Use cones to form a threshold treatment at the start of the new seal. Minimum of 10 cones at 5m centres
4. Cones on the trafficked side of signs for sites to be left unattended overnight
5. TSLs to be repeated at not more than 400m intervals
6. The T144 X0km/h AHEAD sign is optional







## TWO-WAY TWO-LANE ROAD

## Unattended worksites

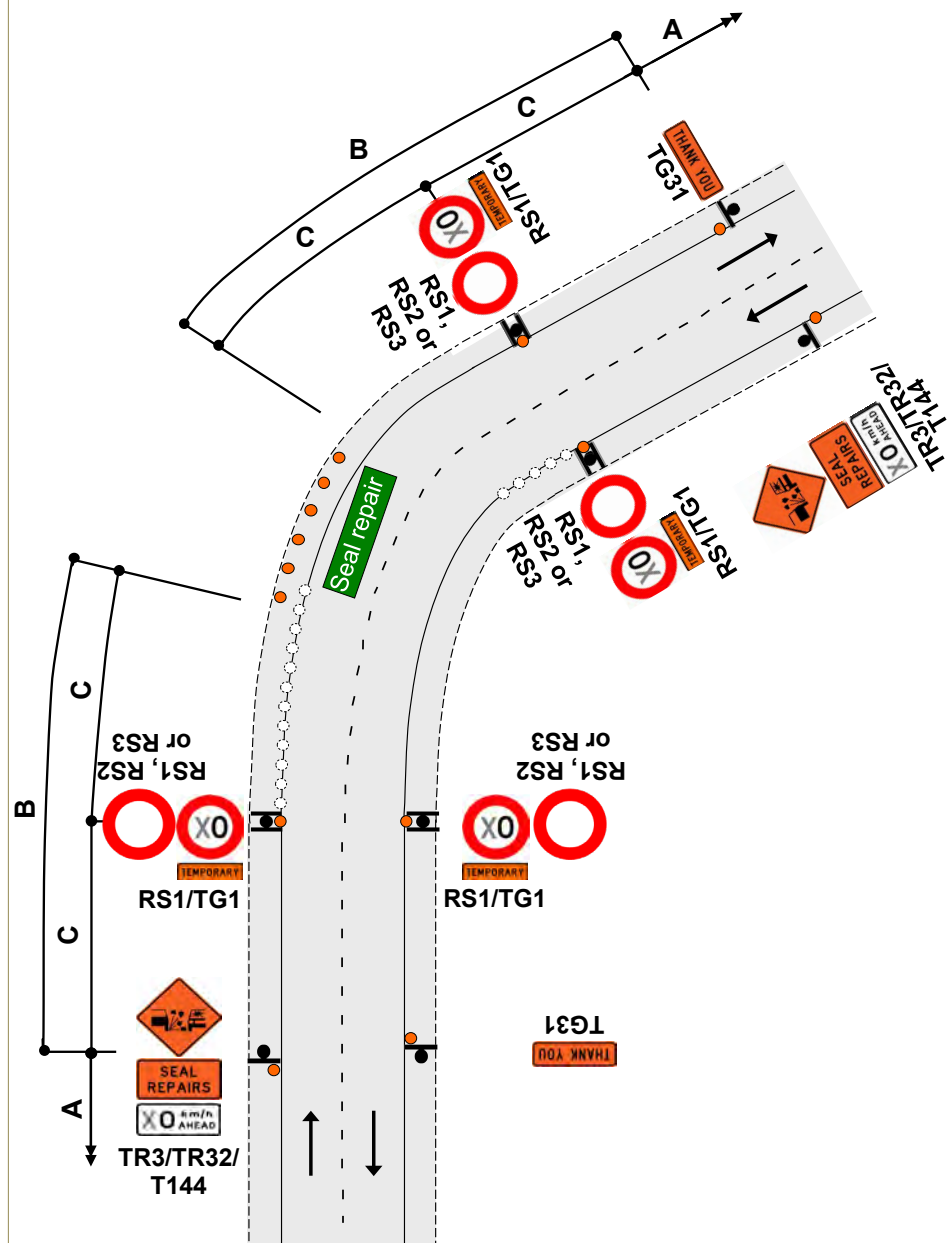
## Seal repairs on a curve

F2.29

Level 1

## Notes

1. Cones on edge of seal - minimum 3 cones, maximum spacing 10m, next to each repair area
2. Cover any curve advisory speed sign that has a higher speed than the TSL
3. Use TSLs if required by TSL decision matrix
4. The T144 X0km/h AHEAD sign is optional



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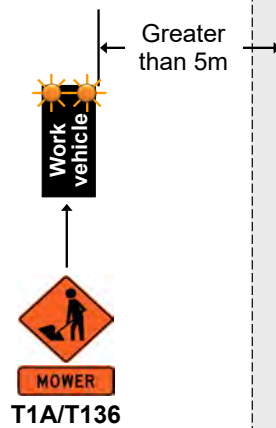
TWO-WAY TWO-LANE ROAD

Work vehicle is more than five (5) metres from the edgeline

Any speed

F4.1

Level 1



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Mobile operations

TWO-WAY TWO-LANE ROAD

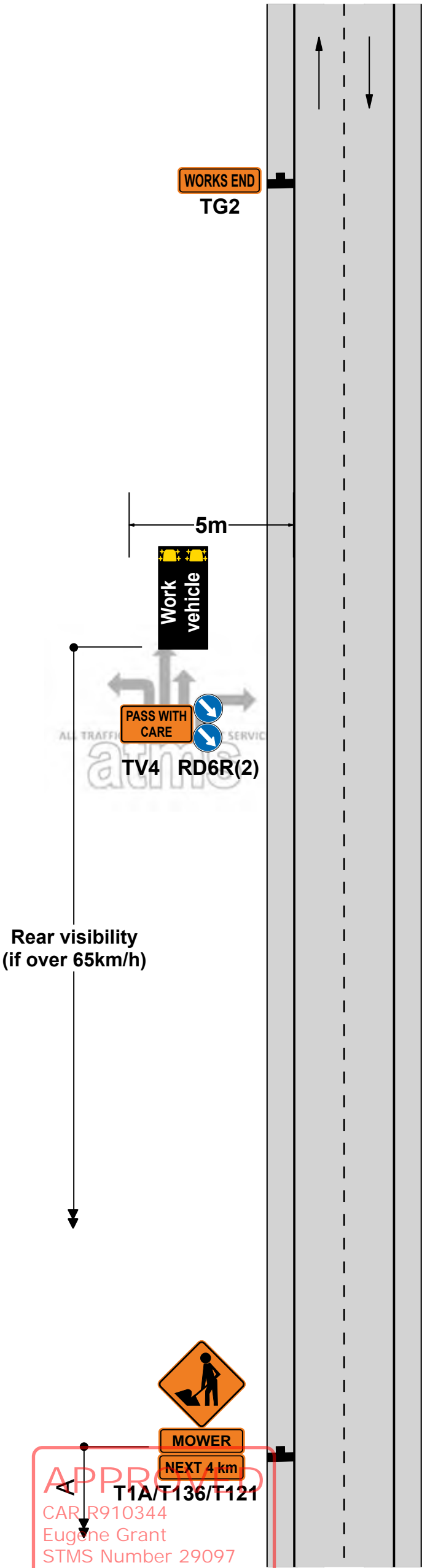
Work vehicle is within five (5) metres of the edgeline

CSD to work vehicle - not required under 65km/h, required over 65km/h

F4.2  
Level 1

Notes

- 1.If permanent speed is under 65km/h, rear visibility to the work vehicle is not required
- 2.If permanent speed is over 65km/h, rear visibility to the work vehicle is required
- 3.A tail pilot vehicle equipped with T1A advance warning sign, appropriate supplementary plate and RD6R may replace the static signs if the permanent speed is under 65km/h (see TMD F4.3)



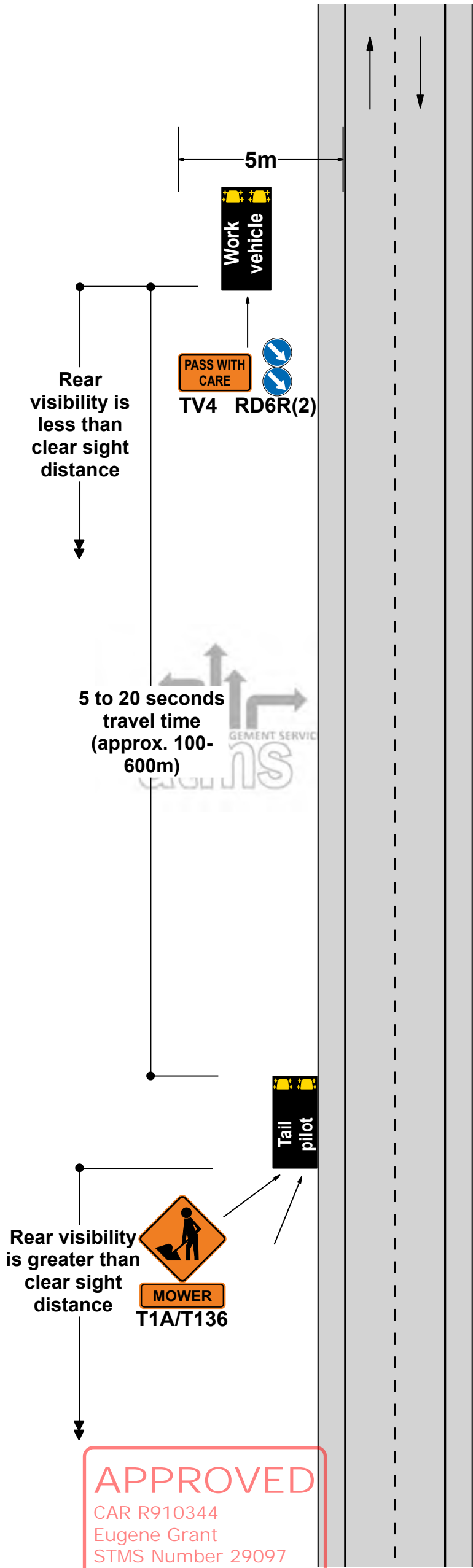
Mobile operations

**TWO-WAY TWO-LANE ROAD**  
**Work vehicle is within five (5) metres of the edgeline**  
**Speed limit over 65km/h - the rear visibility is less than CSD**

**F4.3**  
**Level 1**

Notes

1.This TMD can replace TMD F4.2 when permanent speed is under 65km/h. In these situations, static signs are not required



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Section F

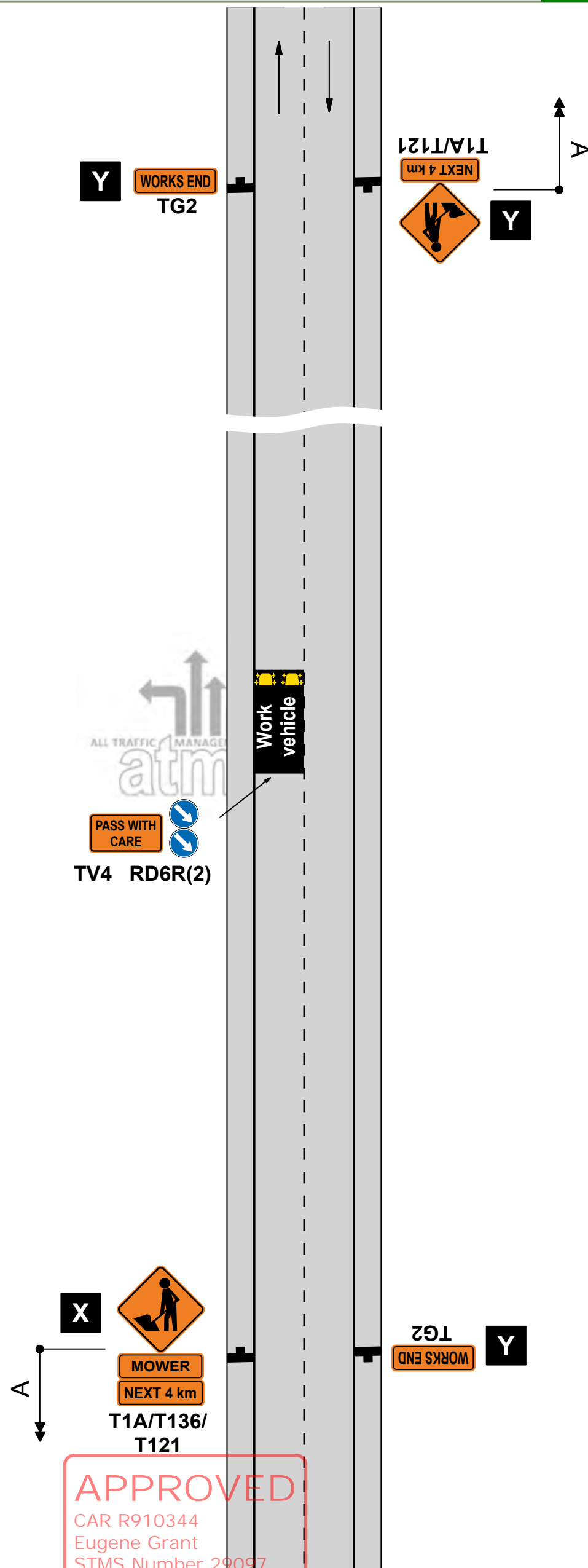
## Mobile operations

**TWO-WAY TWO-LANE ROAD**  
Work vehicle is in a lane  
Permanent speed under 65km/h

## F4.4 Level 1

## Notes

1. Advance warning sign X may be replaced by tail pilot equipped with T1A advance warning sign and appropriate supplementary plate
2. In this case, signs marked with Y do not need to be erected
3. If using static advance warning signs and the operation is on the lane, then static advance warning signs must also be placed on any intersecting roads

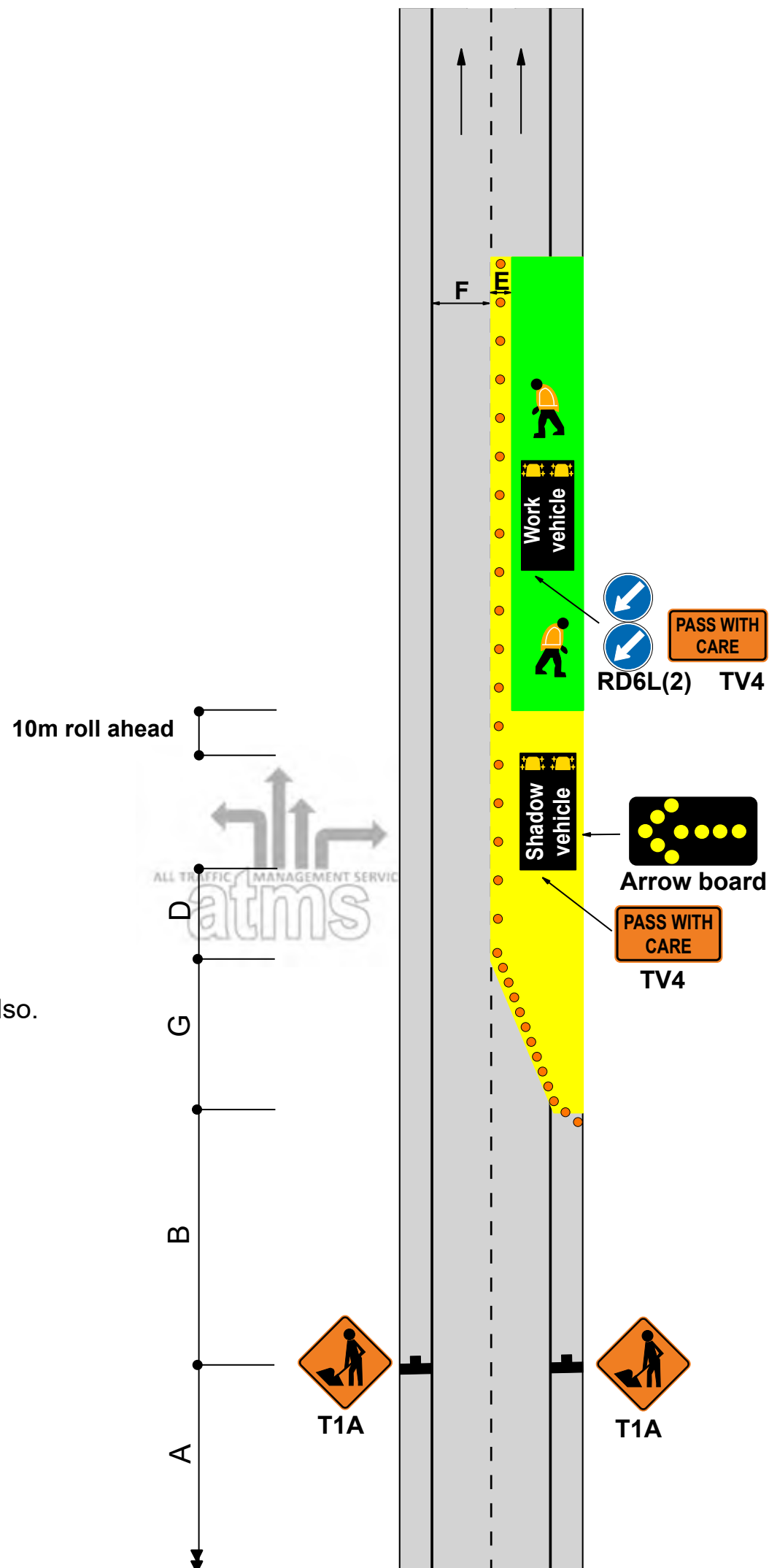


# ATMS06

## Level 1

### Semi-static closure - work for up to 1 hour

1. Only use this TMD when activity can be completed within 1 hour (excluding set up and removal of worksite)
2. The T1A advance warning signs may be replaced by a tail pilot vehicle with a T1A sign, appropriate supplementary plate and a RD6R/L
3. If shadow vehicle is fitted with a TMA, the longitudinal safety zone (D) is not required
4. If using static advance warning signs and the operation is on the lane, then static advance warning signs must also be placed on any intersecting roads.
5. This site can be used on the opposite (left) lane also.

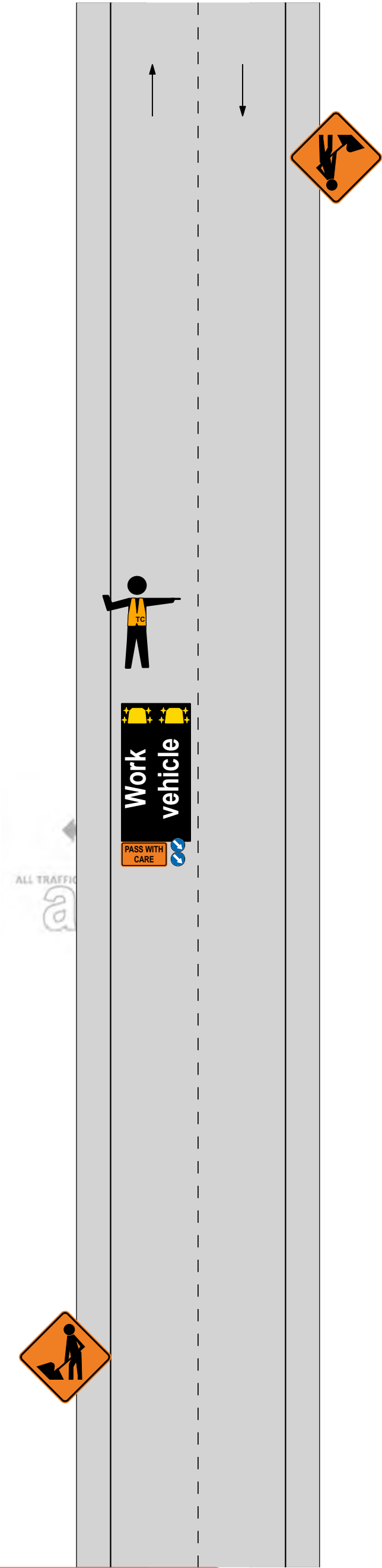


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**Closure:** Level 1 Mobile Closure

**Level:** 1

**TMP Ref:** Mobile L1 - TTM Install/Removal

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Upper Hutt City Council

26 January 2023



CYCLE LANE

Traffic not crossing road centre  
Diverted cycle lane

## F2.8

## Level 1

## Notes

1. Minimum cycle lane width must be:
  - 1m - 50km/h or less
  - 1.5m - 60km/h or more

2. A minimum cycle lane width of 1.5m is required if the temporary cycle lane is uphill

- 3.\*Calculation of taper length for lateral shift of less than 3.5m is:

$W \times G$

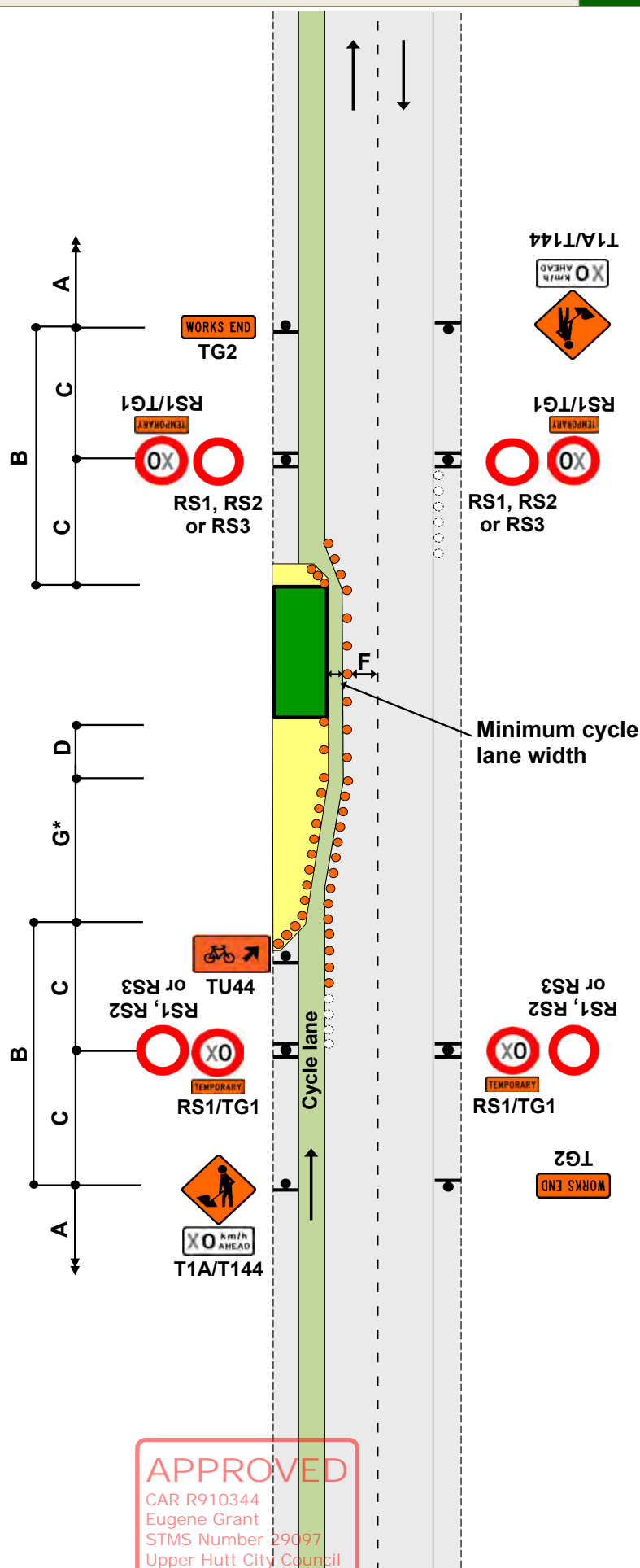
3.5

W = Width of lateral shift

G = Taper length in metres from the level 1 layout distance table

4. Use TLSs if required by TLS decision matrix

- 5.The T144 X0km/h  
AHEAD sign is optional



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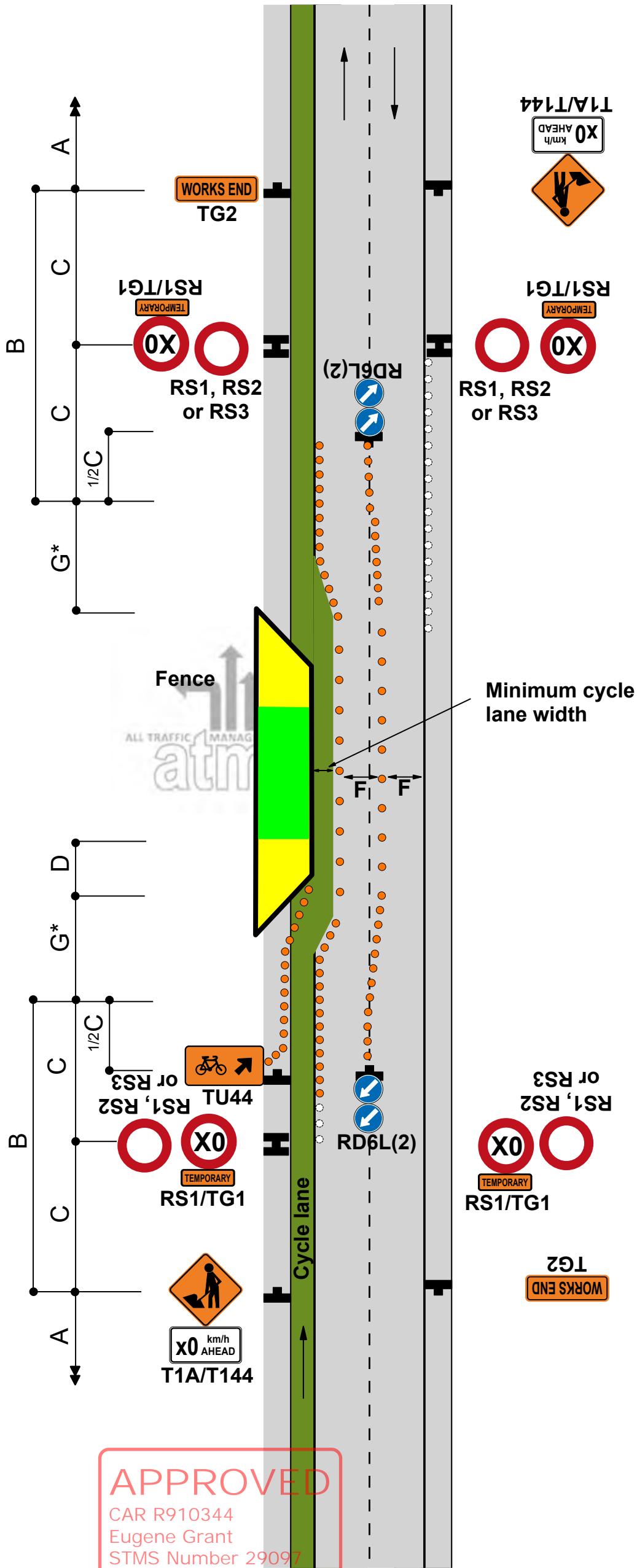
Static operations

CYCLE LANE  
Traffic crossing road centre  
Diverted cycle lane - coned lane control

F2.9  
Level 1

Notes

1. Minimum cycle lane width must be:
  - 1m - 50km/h or less
  - 1.5m - 60km/h or more
2. A minimum cycle lane width of 1.5m is required if the temporary cycle lane is uphill
3. \*Calculation of taper length for lateral shift of less than 3.5m is:  
 $W \times G$   
3.5  
W = Width of lateral shift  
G = Taper length in metres from the level 1 layout distance table
4. To allow heavy vehicles to manoeuvre, cones in the channel must be offset by at least 10m where the direction changes. Refer C8.2.12
5. Use TSLs if required by TSL decision matrix
6. The T144 X0km/h AHEAD sign is optional



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**CYCLE LANE**  
Cycle lane closed  
Poratable e-STOP

**ATMS03**  
**Level 1**

1. Merge of cycle lane with live lane must be delineated with cones at 1.0m centres for at least 10m
2. The T144 30km/h AHEAD sign is optional on roads under 65km/h
3. Signs and layout shown in the box at the bottom of the diagram is to be repeated on each approach that requires cycle lane signage. ATMS01 or ATMS02 to be used on all non cycle lane approaches.
3. Provide details of make and model of portable traffic signals in the TMP
4. Use PN11 no stopping signs, if necessary as per the approved TMP

5. Install temporary RP61/RP62 signs.



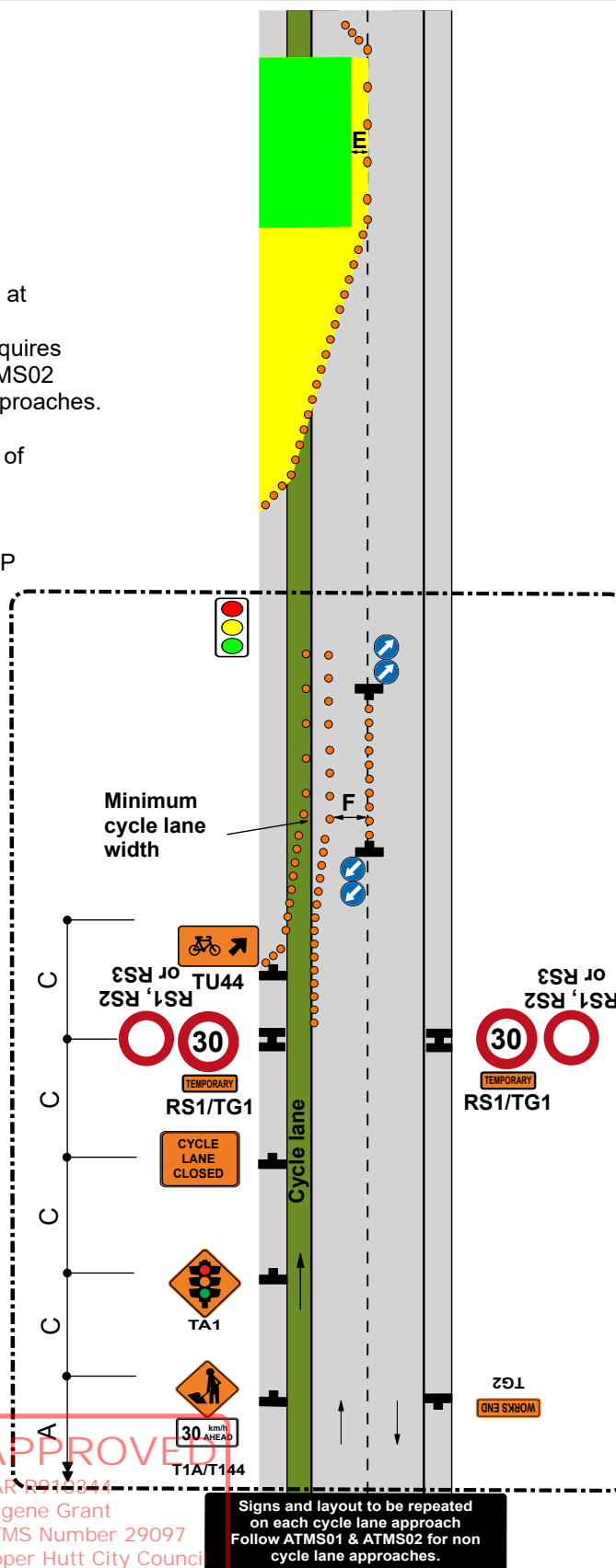
7. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues.

### 8. CONTINGENCY PLAN:

F2.14 or F2.22 to be implemented should issues arise with e-STOP/ adverse weather conditions or where stop go is unsuitable. ex; Short term stoppages is defined as "stopping traffic for a short period of time within a static site, at inconsistent intervals to assist with the entry/exit of vehicles or small tasks required to be undertaken in the live lane".

9. In circumstances where for safety reasons, the use of stop/go operations is deemed more appropriate, a site specific safe work method statement must be prepared.

10.e-STOP can only be used on an attended site. e-STOPS must be manned at all times.



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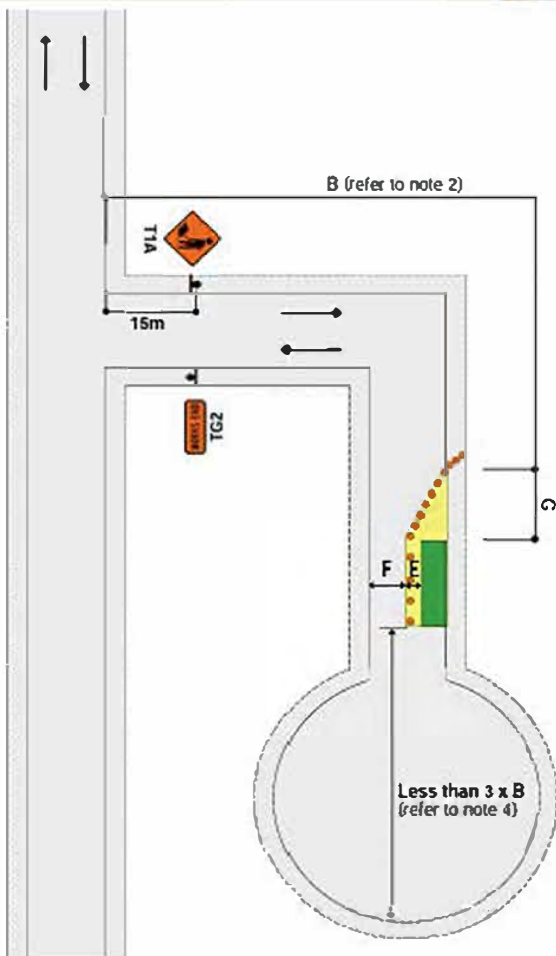
26 January 2023

# TWO-WAY TWO-LANE ROAD

Short no exit road

J2.16a

Level 1



## Notes

1. T1A sign to be placed at least 15m from the intersection
2. Where less than B, T1A/T135 and TG2 signs required on main road
3. Working space to be less than 100m
4. Signage is not required past the works where there is less than 3 x B from the end of the working space to the end of the road

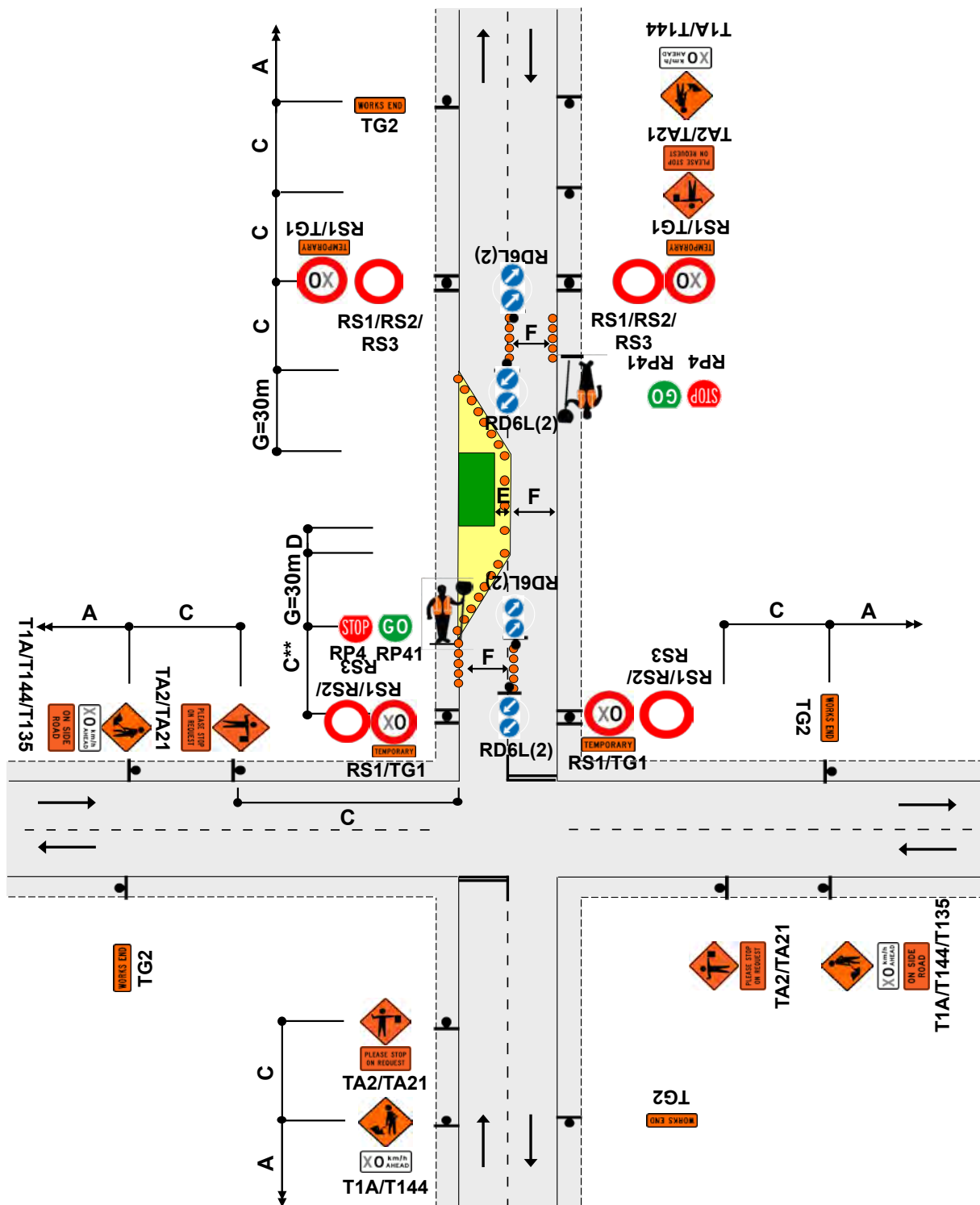
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TWO-WAY TWO-LANE ROAD - Intersection or roundabout  
Major obstruction close to intersection  
Allows shorter sign spacings and MTC operation

J2.19a

Level 1



Notes

1. Sign spacing of TSL at the intersection can be reduced as per the table shown
2. This diagram may be used at a T intersection by removing any one of the roads
3. MTC at intersection to be in charge of MTC operation
4. Use TSLs as required by TSL decision matrix
5. The T144 30km/h AHEAD sign is optional

C**	DISTANCE		
Speed (PSL)	Intersection to TSL	TSL to taper	Total
<50km/h	15m	15m	30m
60km/h	15m	25m	40m
>70km/h	15m	40m	55m

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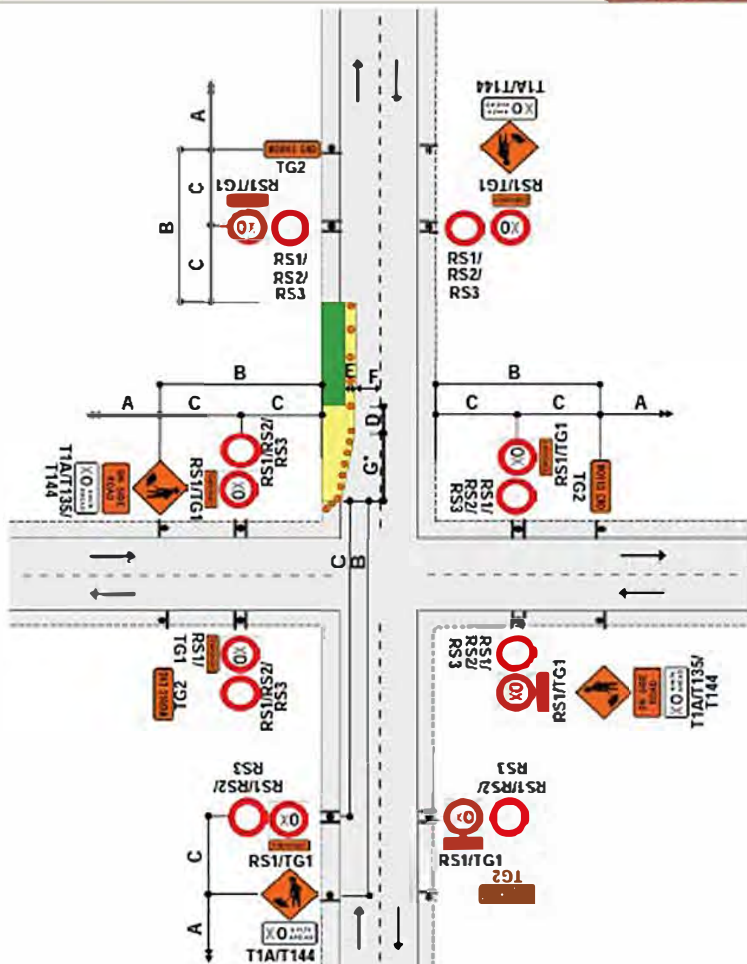
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26 January 2022



Notes

1. This diagram may be used at a T intersection by removing any one of the roads
2. Taper length may be reduced by adding a RD6R sign
3. \*Calculation of taper length for lateral shift of less than 3.5m is:

$$W \times G$$

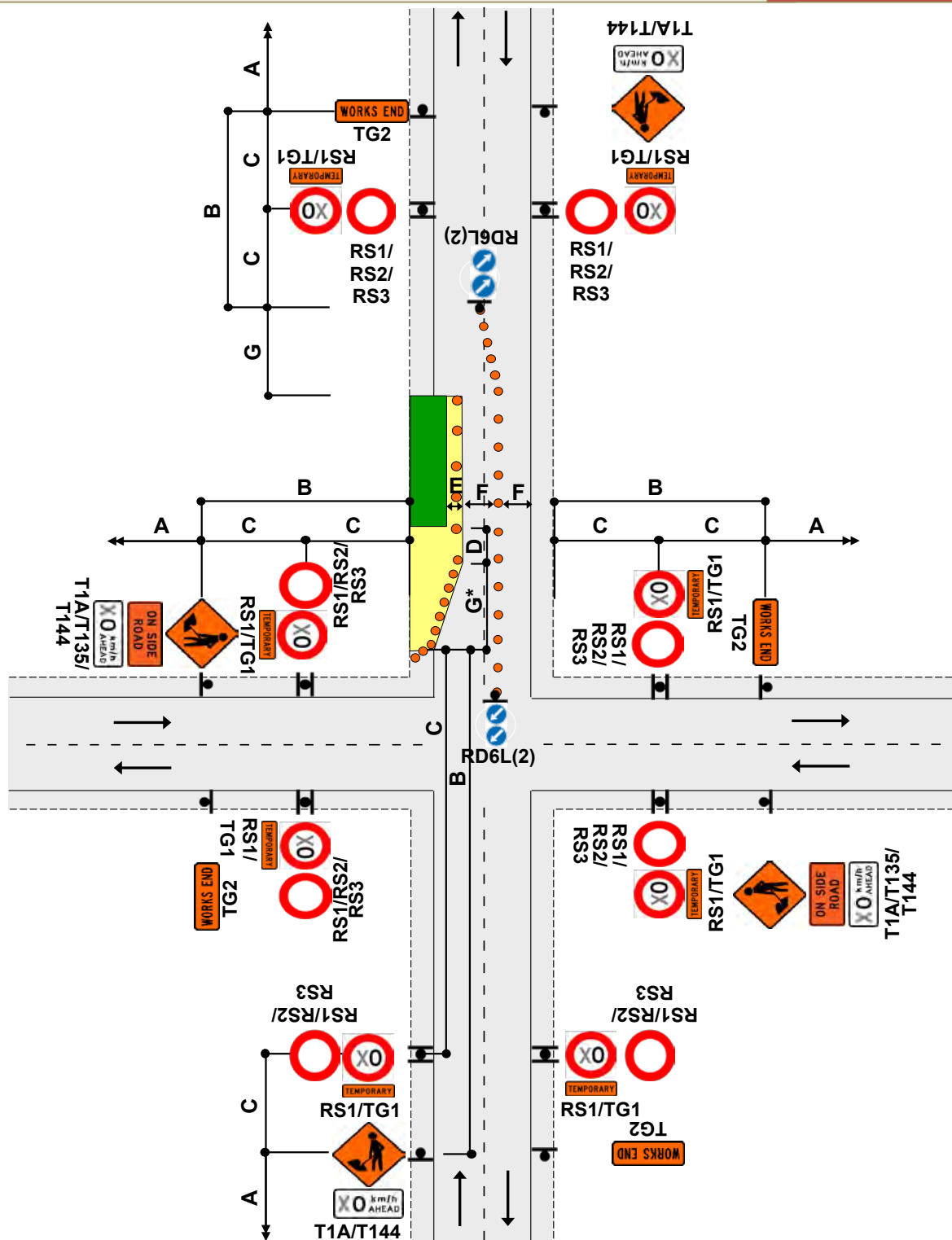
$$3.5$$

W = Width of Shoulder G = Taper length in metres from the level 1 layout distance table

4. Use TSLs if required by TSL decision matrix
5. The T144 30km/h AHEAD sign is optional



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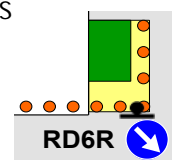
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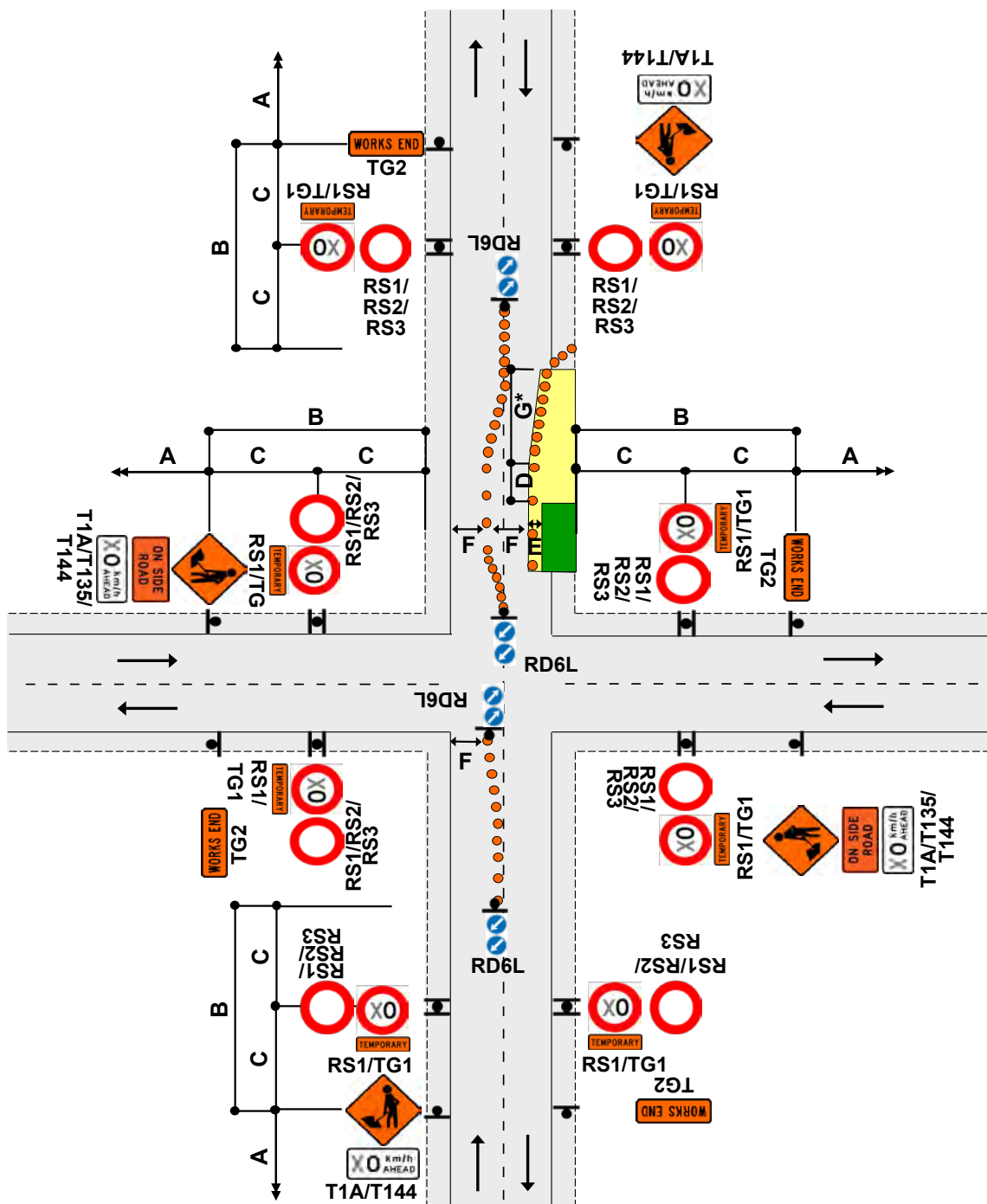
$$\frac{W \times G}{3.5}$$

W = Width of Shoulder G = Taper length in metres from the level 1 layout distance table

4. Use TSLs if required by TSL decision matrix
5. The T144 X0km/h AHEAD sign is optional







### Notes

1. This diagram may be used at a T intersection by removing any one of the roads
2. \*Calculation of taper length for lateral shift of less than 3.5m is:

$$\frac{W \times G}{3.5}$$

3.5

W = Width of lane G = Taper length in metres from the level 1 layout distance table

3. Install shifting taper to move road users into the new alignment
4. Use TSLs if required by TSL decision matrix
5. The T144 X0km/h AHEAD sign is optional

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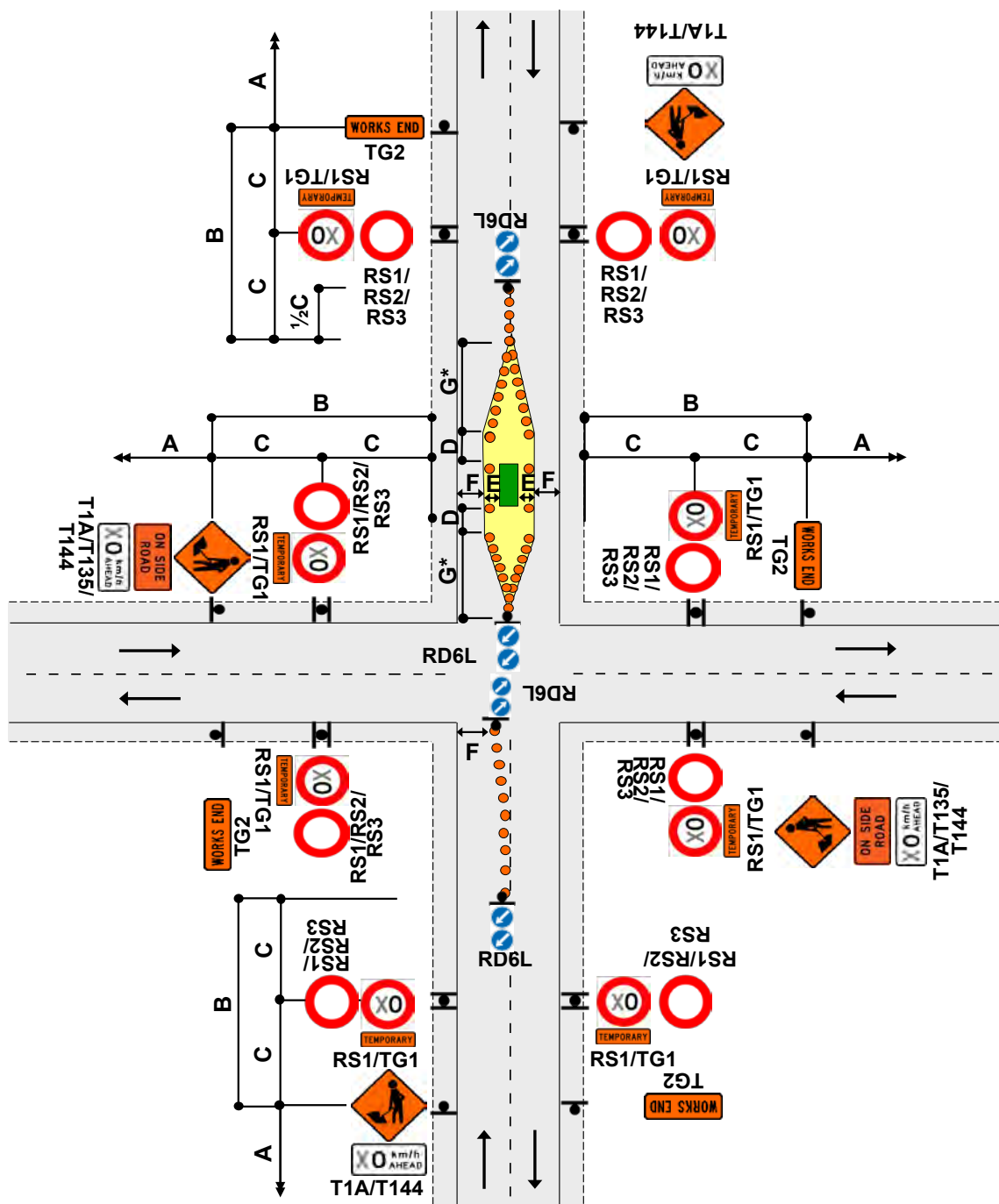
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### Notes

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