

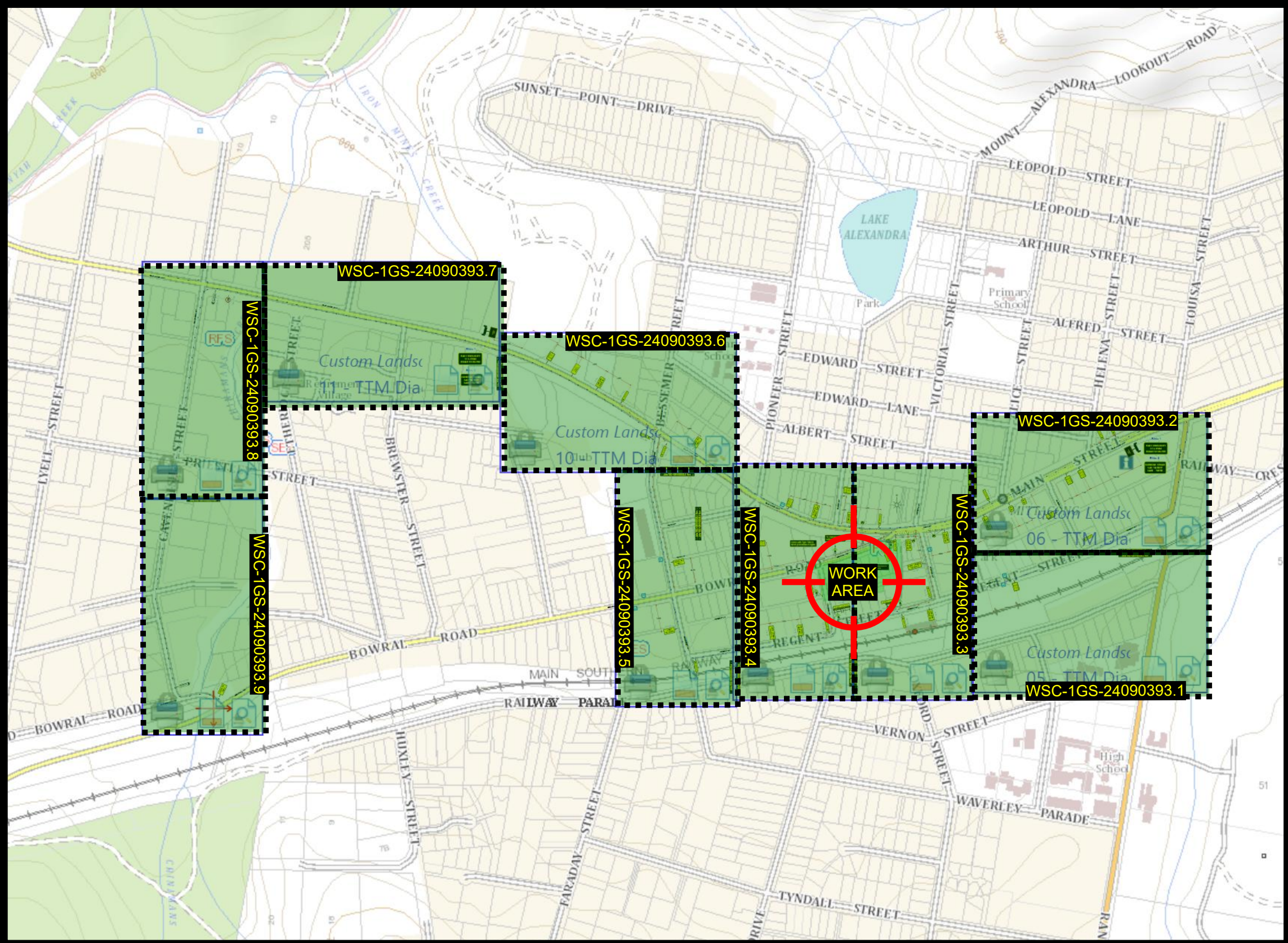
TRAFFIC GUIDANCE SCHEME - COVER PAGE (Bowral Rd, Mittagong)

DRAFTED BY
David Stevens
QLD: TMD OP293
NSW: PWZ - TCT1043731
Date: 30/09/2024
TGS TITLE: Bowral Rd, Mittagong
TGS #: WSC-1GS-24090393
TGS Valid for 12 months from this date

APPROVED BY
Name: Thomas McNair
NSW PWZTMP : TCT 0072729
Date: 30/09/2024
TGS Title: Bowral Rd, Mittagong
TGS #: WSC-1GS-24090393
TGS VALID FOR 12 MONTHS FROM THIS DATE



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| PAGE # | DESCRIPTION |
|--------|---|
| 1 | Cover Page |
| 2 | Tables |
| 3 | Through / Past and Around Analysis |
| 4 | Implementation Notes / Amendment Sign Off |
| 5 | TTM Diagram |

Client: Wingecarribee Shire Council
Client reference number/PO : N/A
Site Contact : Suzanne Hannema
Phone Number: 0412 197 724
TMC Contact: Jason Hristovski
TMC Phone Number: 0455 541 033
Proposed start of works: 16/11/2024
Completion Date: 16/11/2024
Hours of Works: 06:00 to 22:30
Induction Site: Toolbox prior to works

Scope of works / client brief

- Kaleidoscope Festival 2024
- Half road closure with detour and lane closure to conduct the event safely.

TGS REQUIREMENTS FOR TGS - (WSC-1GS-24090393):

| | | | | | | | |
|--------------|----|-----------------|-----|----------------|------------------------|-----------------|-------------|
| Team Leader: | 2 | Traffic Lights: | 0 | Operation: | Half Rd Closure+Detour | Lane Width: | 3.0m |
| Controllers: | 12 | TMA: | 0 | Road Type: | 2 way, 2 lane | Posted Speed: | 50 kph |
| Signs: | 50 | VMS Utes: | 0 | Travel Path: | Around | Direction: | NB/SB/EB/WB |
| TC Utes: | 3 | Additional: | HVM | Road Category: | 2 | Road Authority: | TfNSW, WSC |



7.3 Dimension D

Dimension D is a measure of distance in metres. It is used to determine taper lengths, the position of signs and devices and for determining sight distances along the road so that road users have sufficient time to absorb the roadwork specific messages, understand the changed traffic conditions and take necessary actions.

Dimension D is calculated by expressing the speed in metres for the zone preceding to where the Dimension D will be applied, this may be either the existing posted speed or a reduced roadwork speed limit.

For example Dimension D in *Figure 7-1* below is:

- 110 m for the yellow shaded area;
- 80 m for the blue shaded area; and
- 60 m for the pink shaded area.

The existing posted speed limit may be used to determine Dimension D throughout the work site, provided the PWZTMP qualified person has determined that there is higher risk of poor driver compliance with speed zones and where space allows.

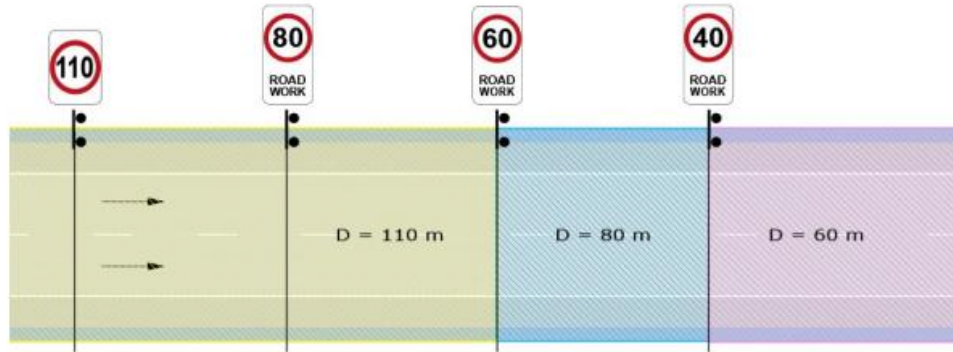


Figure 7-1. Example calculation of Dimension D

The Dimension D to be used on a work site must be determined by the PWZTMP qualified person and must be specified on the relevant TGS.

Where required by site-specific constraints, the application of Dimension D may be varied through the departures process provided in *Section 2.8 Departures from this Technical Manual*.

An example showing application of Dimension D in a 60 km/h roadwork zone with a preceding 80 km/h zone is given in *Table 7-2*.

Table 7-2. Dimension D calculation based on speed zone

| Scenario | Dimension D required | Dimension D |
|--|--|---|
| Dimension D | Dimension D calculated as | 80 m |
| For determining sight distance to a PTC or manual traffic controller | Traffic controller must be able to see 1.5 D or greater to the oncoming traffic | 80 m x 1.5 1.5D = 120 m |
| For determining sight distance to end-of-queue | Sight distance to the end-of-queue for approaching traffic must be calculated at 2D for approach speeds greater than 65 km/h and 1.5D for approach speeds of less than 65 km/h | greater than 65 km/h 80 m x 2 2D = 160 m less than 65 km/h 80 m x 1.5 1.5D = 120 m |
| For determining sign spacing | Distance between signs must be calculated as follows: • Single sign: 2D for speeds greater than 65 km/h and 1D for speed zones of less than 65 km • Multiple signs (such as dual sign arrangements or multi-message signs): 1D for all permitted speed zones | greater than 65 km/h 80 m x 2 2D = 160 m less than 65 km/h 80 m x 1 D = 80 m |
| For determining taper lengths | See <i>Section 7.6.2.2 Tapers</i> | |
| For distance between tapers on multi-lane roads | A distance of 1.5D should be applied | 80 m x 1.5 1.5D = 120 m |

Table 5-13. Traffic controller minimum sight distances

| Existing permanent speed km/h | Length of Work Area (L) | Minimum clear sight distance to oncoming traffic |
|-------------------------------|-------------------------------|--|
| less than 105 | less than 60 m | 300 m |
| less than 105 | greater than or equal to 60 m | L + 250 m |
| greater than 105 | less than 60 m | 400 m |
| greater than 105 | greater than or equal to 60 m | L + 350 m |

Table 7-3. Recommended taper lengths

| Speed (km/h) | Recommended taper length (m) | | |
|------------------|------------------------------|---------------------|-------------|
| | Traffic control taper | Lateral shift taper | Merge taper |
| 45 or less | 15 | 15 | 15 |
| 46 to 55 | 15 | 15 | 30 |
| 56 to 65 | 30 | 30 | 60 |
| 66 to 75 | N/A | 70 | 115 |
| 76 to 85 | N/A | 80 | 130 |
| 86 to 95 | N/A | 90 | 145 |
| 96 to 105 | N/A | 100 | 160 |
| Greater than 105 | N/A | 110 | 180 |

Table 7-4. Minimum taper lengths

| Speed (km/h) | Distance between tapers (m) |
|-----------------|-----------------------------|
| 45 or less | 10 |
| 46 to 55 | 25 |
| 56 to 65 | 70 |
| greater than 65 | 1.5 x Speed |

Table 4-2. Minimum lane widths

| Speed of traffic (km/h) | Minimum lane width (m) |
|-----------------------------------|----------------------------------|
| Less than 65 km/h | 3.0 |
| Greater than 65 km/h | 3.5 |
| Curve with radius less than 250 m | Curve widening of 0.5 m per lane |
| Shuttle flow with active control | 3.5 |

Table 6-3. Sign spacing requirements

| Number of signs | Approach speed | |
|-------------------------|-------------------|--------------------|
| | less than 65 km/h | 65 km/h or greater |
| One advanced sign | D | 2D |
| Multiple advanced signs | D | D |

Table 7-10. Permitted tolerances for positioning of signs and devices

| Tolerance | Positioning of signs, length of tapers or markings | Spacing of delineating devices |
|-----------|--|---------------------------------|
| Minimum | 10% less than the distances or lengths given | Nil |
| Maximum | 25% more than the distances or lengths given | 10% more than the spacing shown |

Table 4-10. Length of roadworks speed zones

| Roadwork Speed Zone | Minimum length | Maximum length |
|--------------------------|----------------|----------------|
| less than 35 km/h | 100 m | 200 m |
| 40 km/h | 150 m | 500 m |
| 60 km/h | 150 m | Not specified* |
| 70 km/h transition zone | 200 m | Not specified* |
| 80 km/h | 500 m | Not specified* |
| 80 km/h transition zones | 300 m | Not specified* |

Table 4-3. Mandatory and recommended controls for protection of a work area

| Distance of work area to traffic | Mandatory and recommended controls | | | |
|----------------------------------|------------------------------------|--|--|---|
| | Mandatory/recommended | Static work | | Dynamic work |
| | | Work duration greater than 4 weeks | Work duration less than 4 weeks including short-term work | *Continuous and frequently changing work |
| Closer than 1.5 m | Mandatory controls | • Temporary safety barrier | • Delineation of work area • Speed zone of 45 km/h or less | • Speed zone of 45 km/h or less • Shadow vehicle |
| | Recommended controls | • Speed zone of 85 km/h or less | • Speed zone of 35 km/h or less • Temporary safety barrier | • Delineation of work area • Speed zone of 35 km/h or less |
| Between 1.5 m and 3 m | Mandatory controls | • Temporary safety barrier where speed zone is greater than 75 km/h • Speed zone of 65 km/h or less where no temporary safety barrier is used | • Delineation of work area • Speed zone of 65 km/h or less | • Speed zone of 65 km/h or less • Shadow vehicle |
| | Recommended controls | • Delineation of work area • Temporary safety barrier where speed zone 85 km/hr or less | • Temporary safety barrier | • Delineation of work area • Speed zone of 55 km/h or less |
| Between 3 m and 6 m | Mandatory controls | • Speed zone of 85 km/h or less where there is no safety barrier | • Delineation of work area • Speed zone of 85 km/h or less where there is no safety barrier | • Speed zone of 85 km/h or less |
| | Recommended controls | • Temporary safety barriers | • Temporary safety barrier | • Delineation of work area • Speed zone of 65 km/h or less |
| Greater than 6m | Mandatory controls | • Worker symbolic (T1-5) sign when workers are visible to road users | • Worker symbolic (T1-5) sign when workers are visible to road users | • As per <i>Section 7.8</i> |
| | Recommended controls | • Delineation of work area • Temporary safety barriers | • Delineation of work area | • Delineation of work site |

Table 6-1. Edge clearances

| Edge of traffic lane to: | Edge clearances |
|---|---|
| Line of traffic cones or bollards | <ul style="list-style-type: none"> • 0.5 m for traffic speeds less than 65 km/h • 1.0 m for traffic speeds greater than 65 km/h |
| Barrier boards, temporary guide posts or temporary hazard markers | 1.0 m |
| Road safety barrier system | <ul style="list-style-type: none"> • 0.3 m for traffic speeds less than 45 km/h • 0.5 m for traffic speeds 45 to 65 km/h • 1.0 m for traffic speeds 65 to 85 km/h • 2.0 m for traffic speeds greater than 85 km/h |

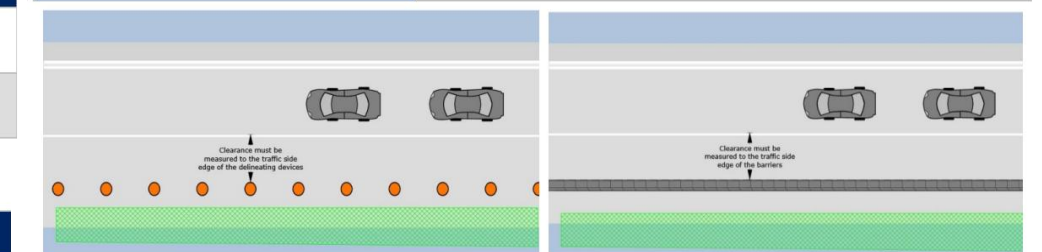


Table 6-18. Size requirements for G6-317n and G6-317-1n signs.

| Road configuration | Approach speed | Sign size |
|--------------------------------------|----------------------|-----------|
| Single carriageway | Less than 95 km/h | A size |
| | Greater than 95 km/h | B size |
| Dual carriageway and multilane roads | Less than 95 km/h | A size |
| | Greater than 95 km/h | B size |

MOTORISTS

| OPTIONS | | FEATURES | COMMENTS | RESULT |
|------------------------------|-------------------------|---|--|--------|
| TRAFFIC THROUGH THE WORKSITE | | <ul style="list-style-type: none"> - Acceptable LOS to be maintained - Minimal traffic disruption - Minimal delays to the public - Existing travel path to be maintained | Works will interfere with the travel path of road users and cannot be undertaken via hold & release | |
| TRAFFIC PAST THE WORKSITE | SHOULDER CLOSURE | <ul style="list-style-type: none"> - Acceptable LOS to be maintained - Minimal traffic disruption - Minimal delays to the public - Existing travel path to be maintained | Works will not be contained to the shoulder Works will interfere with the Traffic Lanes | |
| | LANE CLOSURE | <ul style="list-style-type: none"> - Acceptable LOS to be maintained - Work areas accessible to personnel, plant items and site vehicles - Site personnel / plant items separated from vehicular traffic | Works will be contained within the lane there is sufficient room to allow traffic past work site. | |
| | LATERAL SHIFT | <ul style="list-style-type: none"> - Acceptable LOS to be maintained - Minimal traffic disruption - Minimal delays to the public | Work area will not leave enough lane width for Lateral Shift | |
| TRAFFIC AROUND THE WORKSITE | DETOUR | <ul style="list-style-type: none"> - Work areas are accessible to work personnel, plant items and site vehicles - Traffic will be separated from work personnel / plant items and site vehicles. - Will make for more efficient and timely works by allowing site vehicles, plant items and delivery vehicles to park and unload on roadway. - Lowers the chance of collision between site personnel/ plant items/ site vehicles and the general public | There is not enough trafficable lane width for traffic to pass through the work area, a detour will be necessary for this project. | |
| | SIDE-TRACK | <ul style="list-style-type: none"> - Work areas are accessible to work personnel, plant items and site vehicles - Traffic will be separated from work personnel / plant items and site vehicles. - Will make for more efficient and timely works by allowing site vehicles, plant items and delivery vehicles to park and unload on roadway. - Lowers the chance of collision between site personnel/ plant items/ site vehicles and the general public | Road way configuration not suitable for side-Track | |
| | CROSSOVER (CONTRA-FLOW) | <ul style="list-style-type: none"> - Work areas are accessible to work personnel, plant items and site vehicles - Traffic will be separated from work personnel / plant items and site vehicles. - Will make for more efficient and timely works by allowing site vehicles, plant items and delivery vehicles to park and unload on roadway. - Lowers the chance of collision between site personnel/ plant items/ site vehicles and the general public | Road Configuration will not allow a crossover there are no suitable areas to divert traffic to opposing side of the road | |
| SHORT TERM, LOW IMPACT WORKS | | <ul style="list-style-type: none"> - Acceptable LOS to be maintained - Minimal traffic disruption - Minimal delays to the public | Works meet requirements for Short Term Low Impact Works with completion of Risk Assessment completed | |

PEDESTRIANS

| OPTIONS | | FEATURES | COMMENTS | |
|----------------------|------------|---|---|--|
| CLOSE FOOTPATH | DETOUR | - Pedestrians separated from Site personnel, plant items and general site hazards | Works do not impede Footpaths / Pathways and Pedestrian Crossing | |
| | SIDE-TRACK | - Pedestrians separated from Site personnel, plant items and general site hazards | Works do not impede Footpaths / Pathways and Pedestrian Crossing | |
| RETAIN OPEN FOOTPATH | | - Pedestrians separated from Site personnel, plant items and general site hazards | Works do not interfere with pedestrian access to pathway works to be separated by delineation | |

CYCLIST

| OPTIONS | | FEATURES | COMMENTS | |
|------------------------|------------|---|--|--|
| CLOSE CYCLE LANE | DETOUR | - Cyclist separated from Site personnel, plant items and general site hazards | Works do not impede Cycle Lanes or Cycle Paths | |
| | SIDE-TRACK | - Cyclist separated from Site personnel, plant items and general site hazards | Works do not impede Cycle Lanes or Cycle Paths | |
| RETAIN OPEN CYCLE LANE | | - Cyclist separated from Site personnel, plant items and general site hazards | - There are No existing Cycle Lanes or Cycle Paths in the immediate Works. | |

RESIDENTIAL AND BUSINESS ACCESS

| OPTIONS | | FEATURES | COMMENTS | |
|---------------|-------------------------|--|---|--|
| CLOSE ACCESS | CLOSE ACCESS | - Access , cannot be maintained residences and business will need to be notified 72hrs prior to closure and armaments made | Residences and business are not affected during this operating times. | |
| | LOCAL ACCESS MAINTAINED | -General Access is closed - Local access to be maintained - Traffic Controllers to assist residents and business'. | Local access to residences, commercial and or private property are to remain accessible during General Works or Events. | |
| RETAIN ACCESS | | - Local access to residence and commercial business will be unaffected | Residences of business access will be maintained at all times. | |

BUS STOPS

| OPTIONS | | FEATURES | COMMENTS | |
|-------------------------|---------------------------------------|---|---|--|
| CLOSE BUS STOP | TEMPORARY STOP PROVIDED | <ul style="list-style-type: none"> - Buses will be kept clear of work area. - General public will be clear of site hazards. - Work site will not have to facilitate bus access. | - No bus stops are affected within the work area during operating times as it is not recommended to relocate bus stop unless requested by client. | |
| | EXISTING STOPS USED AS AN ALTERNATIVE | <ul style="list-style-type: none"> - Buses will be kept clear of work area. - General public will be clear of site hazards. - Work site will not have to facilitate bus access. - Existing bus stops will facilitate extra traffic. | No bus stops are affected within the work area during operating times as it is not recommended to relocate bus stop unless requested by client. | |
| RETAIN CURRENT BUS STOP | | <ul style="list-style-type: none"> - Commuters will not be required to travel to alternate stop. - Buses will retain original route - Locating a suitable site for temporary stops will not be required - Minimal delays | Existing bus stops shall remain open to load and unload passengers during operating times. | |

General TGS notes:

Notes:

- Local constraints may not allow signage and devices to be placed in accordance with this TGS. Signs and devices are to be positioned in accordance with tolerances recommendations shown in the TCAWS Manual Version 6.1 2022.
- This TGS is based on TfNSW recommendations from the TCAWS Manual Version 6.1 2022.
- Signage Required for this Setup should be specifications of the TCAWS 6.1.
- If not already noted, the existing posted speed limit is to be noted on this TGS.
- The value of speed limits displayed shall match the speed zone approval.
- Ensure all project and road authority approval requirements are met prior to commencing set up.
- Cover all conflicting road signage where required.
- The site MUST comply with the TCAWS (Traffic Control at Worksites) Manual Version 6.1 2022.
- All Taper and Worksite Delineation Must be Setout As per TCAWS 6.1 Feb 2022.
- Que Management must be maintained at all Times. Team leader and Traffic controllers are responsible for Maintaining Que Management.
- Team Leader is Responsible for monitoring and Maintaining Site.
- Site should complete Sign Checks every 2 hours. E4 - Shift TTM Check must Be completed.
- E5 - Post Completion Form must be Completed at the End of Shift.
- Signage Setup and Pack up to be completed as Per. TCAWS v6.1.
- Traffic controllers are to control Traffic as Per SWMS document and TCAWS 6.1. Traffic Controllers must maintain there Escape Route at All times.
- If PTCO (E stops) Fail, PTCO failure form must be Completed with a risk assessment. Contact your Supervisor ASAP to bring another set to site.
- Site must not be more then 500m in length. If site needs to be longer then 500m, A Departure form must be completed and approved. Repeater signs must also be placed max every 500m.

Signage & Devices:

- Worksite signing must be placed in accordance with the Traffic Management Plan which should comply with the TfNSW recommendations from the TCAWS Manual Version 6.1 2022 and AS 1742.3-2019 MUTCD Part 3.
- Prior to installation, signs and devices should be examined before installation to ensure that they are in good condition prior to use to ensure their performance is not impaired.
- Cone spacing table shown on this Traffic Guidance Scheme (TGS) indicates the recommended maximum spacing of cones and bollards when implementing these TGS plans.
- Unless noted otherwise in the drawings, all signage is to be positioned clear of travel path behind the kerb and visible to oncoming traffic and not obstructing pedestrians, otherwise on the pavement as near as practicable to the kerb without the sign becoming obscured and without obstructing moving traffic.
- Signs should face towards approaching traffic approximately at right angles to the line of sight from the driver to the sign.
- Sign installation sequence shall be as follows:
 - Advance warning
 - Condition warning
 - Warning of plant/road workers and
 - Driving instruction guidance
 - All delineation devices to form taper including illuminated flashing arrow at end of taper where required
 - Delineation of work area or side track
 - Signs & devices that are erected before they are required should be fully covered until immediately prior to commencement of work.
 - Recommend detour signs to be installed prior to any road / part road closure
- Existing signs & traffic control devices which are inappropriate to, or conflict with, the temporary work site situation shall be fully covered or removed.
- Signs covered or removed should be recorded on a signage checklist sheet including time covered / removed and time uncovered / replaced.
- Where practicable, signs shall be erected on both sides of the roadway on multilane divided or one way roads where the volume of is 10 00 VPD or greater. This treatment should also be considered for all other roads, especially those with curved alignments.
- Inspections to be completed after setup, during closure & upon completion of pack up, or as specified / requested

Emergency Services:

- Access shall be maintained for all emergency vehicles at all times.
- Where required, all services should be advised of proposed works and times in advance of works commencing, or for emergency works, as soon as practical.

Communications:

- Prior to the start of daily works Traffic Controllers are to attend onsite tool box meetings at the beginning of each shift to discuss current works and methodology.
- During works, Workers & Traffic Controllers may operate under a "line of sight" method or utilise 2 way radios (as required by type of control).

Record Keeping:

- Supervisory personnel shall keep daily records of the sign arrangements / TGS scheme.
- This will include the following details:
 - Date.
 - Location.
 - Job Identification.
 - Time of inspection.
 - Details of Inspector.
 - Details of changes, and who it was authorised by.
 - Record of TMP, TGS, permit and other relevant documents / numbers in use. This information should be kept in a dairy or work sheet.

Notes on Traffic Controllers:

- An accredited traffic controller must not contravene NSW TCAWS Manuel, Training & must direct traffic in a way stated in both the Approved Procedure & the Guidelines for Traffic Controllers
- Breaks shall be taken as specified in Guidelines for Traffic Controllers. Additional Controllers may be required for this purpose.
- Where Traffic Controllers are required, ensure they have a clear escape path to a non-traffic (closed) section of the roadway, shoulder, footpath or median during works operation at all times.

Amendments:
All amendments to the TGS must be clearly documented on this plan. Amendments can only be made by the Traffic Control Supervisor holding a current PWZTMP card in consultation with the project works supervisor.

Organisation : _____
Modifier Details
Name: _____

PWZTMP Card Number: _____

Role : _____

Reason for Modification: _____

Date: _____ Sign: _____

Approver Details
Name: _____

PWZTMP Card Number: _____

Role : _____

Reason for Modification: _____

Date: _____ Sign: _____

CONTINGENCY PLAN LIGHTS FAILURE

In the event that traffic lights fail on site, the following contingency plan will be put into place until the traffic light issue can be resolved / or the lights are replaced.

- Traffic controllers shall replace traffic lights to control traffic through site.
- Traffic controller sign shall replace the traffic lights sign.
- Stop here on red signal sign shall be removed.
- Details shall be recorded of the time of traffic light failure, change to traffic controllers control and signage changes.

Time lights failed: _____

Traffic Controllers taken over: Y / N

Time: _____

Traffic Lights Sign replaced with Traffic Controller sign - Stop here on red signal sign removed: Y / N



QUEUE MANAGEMENT PLAN

AT ALL TIMES DURING THE COURSE OF WORKS, TRAFFIC QUEUES SHALL BE MONITORED TO ENSURE QUEUE LENGTHS DO NOT EXTEND BACK BEYOND LIMITS OF THE ADVANCE WARNING SIGNS. BUS MOVEMENTS WILL BE GIVEN PRIORITY

End of Queue Management is needed when the Queuing traffic exceeds 1.5D from the first vehicle in the Line up. If you are unsure of how this works please contact your supervisor ASAP. If the queuing traffic exceeds 1.5D, Queue management Procedures must be implemented. Use of Queue symbolic and additional prepare to stop Signage is required to be added to the existing TGS setup. If you have any Queuing Traffic Issues Please contact your supervisor or management ASAP for assistance.

Manifest

- 94 x Reflective Cone 700mm
- 61 x Water Filled Barrier
- 59 x Sign Post
- 13 x Sign frame (1200x300)
- 10 x Sign frame (1200x600)
- 9 x Sign frame (900x600)
- 9 x Special Event Ahead
- 8 x TC / Breaks / Pedestrian Assist
- 7 x bus-300x300
- 7 x Sign frame (1500x600)
- 7 x T1-32 SIDE ROAD CLOSED
- 6 x T1-6 DETOUR AHEAD
- 6 x T5-1 (R) DETOUR LEFT
- 5 x T1-18 PREPARE TO STOP
- 5 x T5-1 (F) DETOUR IN FRONT
- 4 x Sign frame (1800x300)
- 4 x T1-34 TRAFFIC CONTROLLER AHEAD
- 4 x T2-23 END DETOUR
- 4 x T2-4 ROAD CLOSED
- 4 x TC /for Shuttle Flow
- 3 x Traffic Control Ute
- 2 x G9-5-2 (L) DETOUR FOR HEAVY VEHICLES
- 2 x HVM
- 2 x Sign frame (1200x900)
- 2 x T2-6-1 LEFT LANE CLOSED
- 2 x T5-1 (L) DETOUR LEFT
- 2 x VMS Board
- 1 x Cone with Tiger Tails
- 1 x Custom Sign
- 1 x R4-1 (50) SPEED LIMIT 50
- 1 x Sign frame
- 1 x T5-5 T5-5 single chevron
- 1 x Team Leader

Legend

- Barrier Board
- bus-300x300
- Cone with Tiger Tails
- Event Area
- HV Detour
- HVM
- LV Detour Route 1
- LV Detour Route 2
- Pedestrian Route
- Reflective Cone 700mm
- Single Chevron
- TC / Breaks / Pedestrian Assist
- TC /for Shuttle Flow
- Team Leader
- Temporary Pedestrian Crossing
- Traffic Control Ute

Restrictions:

This TGS can only be applied at location shown for the specific works detailed on each plan as part of the specified project (if supplied)
All Requirements stated in any Permit, TMP, or any other statutory requirement will be observed / implemented.

Public Transport:

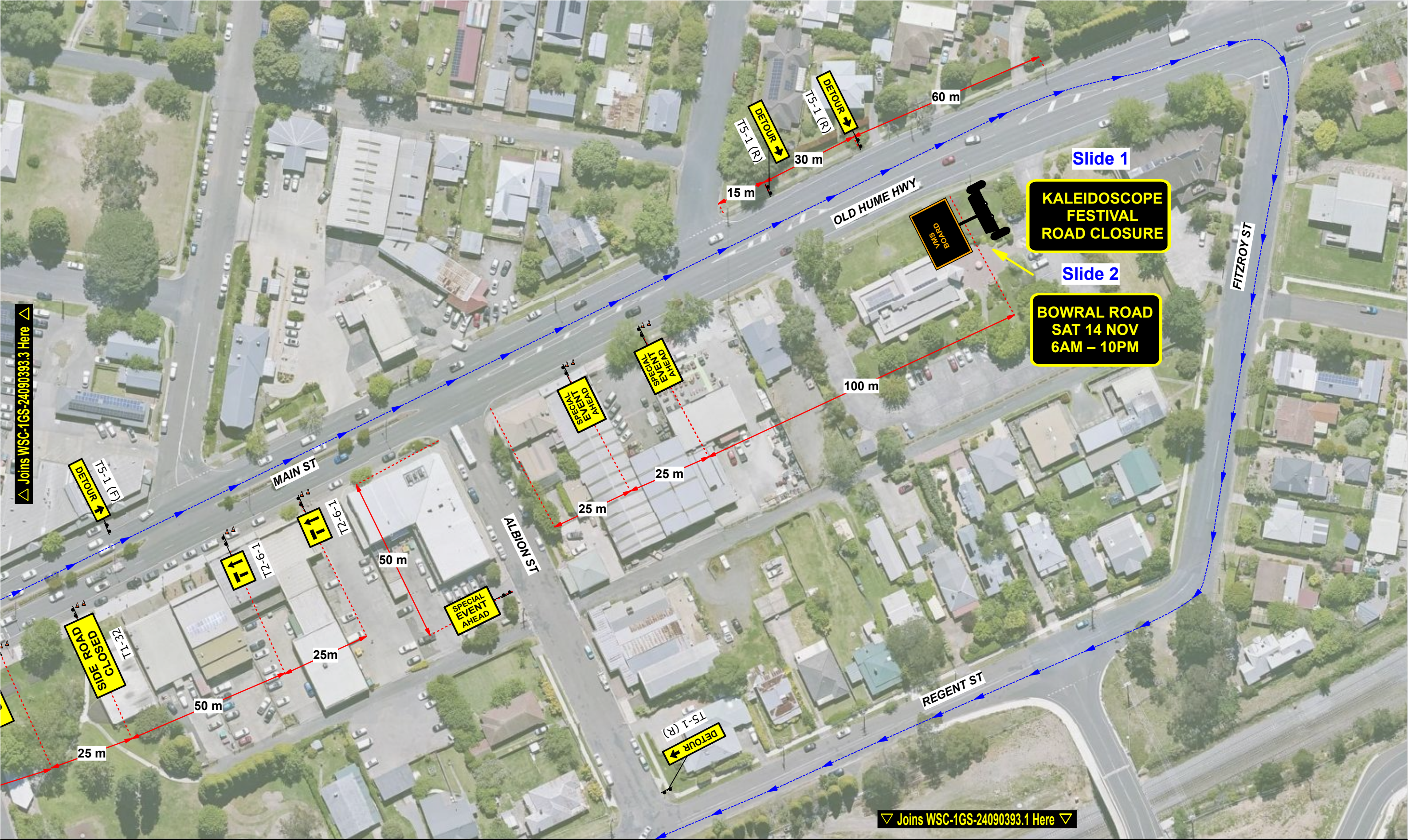
- Unless otherwise stated on the plan , Bus stops and other public transport facilities shown are done so merely as a reference, and require no management.
- Should a particular facility require additional management , this will be included on TGS or TMP



TGS TITLE:

Wingecarribee Shire Council - Bowral Rd, Mittagong - Half Rd Closure+Detour - WSC-1GS-24090393.1

| Rev | Details | Date | By | TGS REQUIREMENTS: | | | | WORK SITE DESCRIPTION: | | | | | | SCALE OF PLAN (1 : 1000) | | |
|-----|-----------------|------------|----|------------------------|----|-----------------------|------------------------|-------------------------|--------|---------------------------------------|----------|---|---------------|--------------------------|-------------|--|
| 0 | Initial Release | 30/09/2024 | DS | Signs: | 50 | TMA: | 0 | Works Term: | Short | Traffic Clearance to Worker: | ≤ 1.5m | Road Category: | 2 | Direction: | NB/SB/EB/WB | |
| 1 | Revision | 04/11/2024 | DS | Controllers: | 12 | Additional: | HVM | Travel Path: | Around | Traffic Clearance to Objects : | 0.5m <65 | Road Type: | 2 way, 2 lane | Pedestrians: | Through | |
| | | | | Traffic Lights: | 0 | Safety Buffer: | N/A | Lane Width: | 3.0m | Traffic Cone Size: | 700mm | Road Authority: | TfNSW, WSC | Cyclists: | Unaffected | |
| | | | | TC Utes: | 3 | Taper Length: | 30m | Posted Speed: | 50 kph | Traffic Cone Spacing @ 40km: | 4 m | Drafted By: David Stevens - TCT 1043731 Approved By: Thomas McNair - TCT 0072729 | | | | |
| | | | | VMS Utes: | 0 | Operation: | Half Rd Closure+Detour | Work Zone Speed: | 40 kph | Traffic Cone Spacing @ 60km: | 12 m | | | | | |



TGS TITLE: **Wingecarribee Shire Council - Bowral Rd, Mittagong - Half Rd Closure+Detour - WSC-1GS-24090393.2**

| Rev | Details | Date | By | TGS REQUIREMENTS: | | | | WORK SITE DESCRIPTION: | | | | | | SCALE OF PLAN (1 : 1000) | |
|-----|-----------------|------------|----|------------------------|----|-----------------------|------------------------|-------------------------|--------|---------------------------------------|----------|---|---------------|--------------------------|-------------|
| 0 | Initial Release | 30/09/2024 | DS | Signs: | 50 | TMA: | 0 | Works Term: | Short | Traffic Clearance to Worker: | ≤ 1.5m | Road Category: | 2 | Direction: | NB/SB/EB/WB |
| 1 | Revision | 04/11/2024 | DS | Controllers: | 12 | Additional: | HVM | Travel Path: | Around | Traffic Clearance to Objects : | 0.5m <65 | Road Type: | 2 way, 2 lane | Pedestrians: | Through |
| | | | | Traffic Lights: | 0 | Safety Buffer: | N/A | Lane Width: | 3.0m | Traffic Cone Size: | 700mm | Road Authority: | TfNSW, WSC | Cyclists: | Unaffected |
| | | | | TC Utes: | 3 | Taper Length: | 30m | Posted Speed: | 50 kph | Traffic Cone Spacing @ 40km: | 4 m | Drafted By: David Stevens - TCT 1043731 Approved By: Thomas McNair - TCT 0072729 | | | |
| | | | | VMS Utes: | 0 | Operation: | Half Rd Closure+Detour | Work Zone Speed: | 40 kph | Traffic Cone Spacing @ 60km: | 12 m | | | | |



| Rev | Details | Date | By |
|-----|-----------------|------------|----|
| 0 | Initial Release | 30/09/2024 | DS |
| 1 | Revision | 04/11/2024 | DS |
| | | | |
| | | | |

TGS TITLE:

**Wingecarribee Shire Council -
Bowral Rd, Mittagong -
Half Rd Closure+Detour -
WSC-1GS-24090393.3**

TGS REQUIREMENTS:

| | |
|------------------|--------|
| Signs: | 50 |
| Controllers: | 12 |
| Traffic Lights: | 0 |
| TC Utes: | 3 |
| VMS Utes: | 0 |
| TMA: | 0 |
| Safety Buffer: | N/A |
| Taper Length: | 30m |
| Work Zone Speed: | 40 kph |
| Additional: | HVM |

WORKS DESCRIPTION:

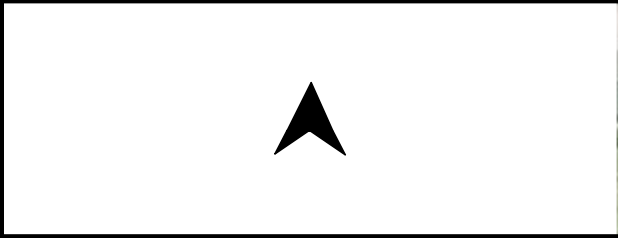
| | |
|--------------------------------|------------------------|
| Works Term: | Short |
| Operation: | Half Rd Closure+Detour |
| Lane Width: | 3.0m |
| Traffic Clearance to Worker: | ≤ 1.5m |
| Traffic Clearance to Objects : | 0.5m <65 |
| Traffic Cone Spacing @ 40km: | 4 m |
| Traffic Cone Spacing @ 60km: | 12 m |
| Traffic Cone Size: | 700mm |

SITE DESCRIPTION:

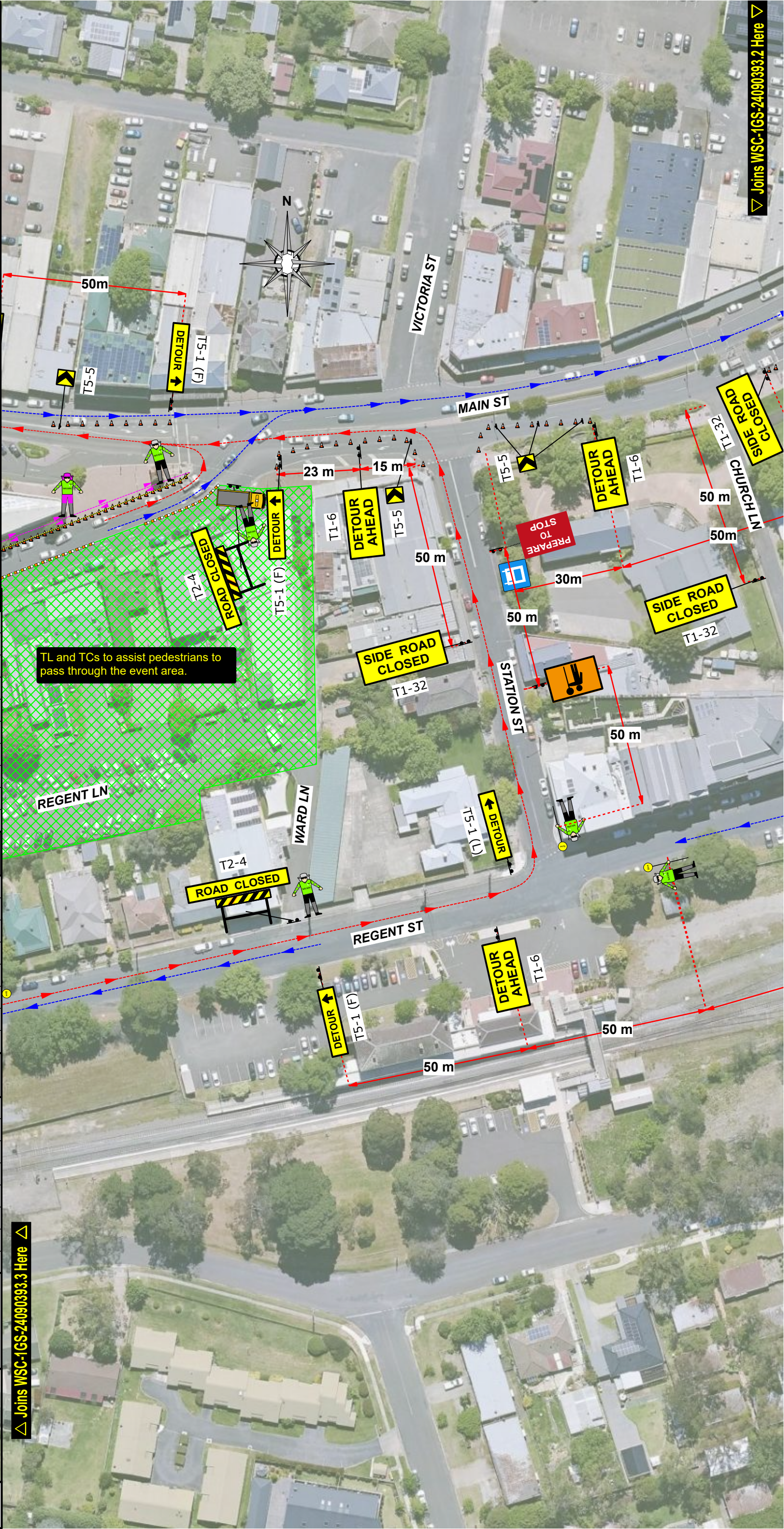
| | |
|-----------------|---------------|
| Road Category: | 2 |
| Road Type: | 2 way, 2 lane |
| Road Authority: | TfNSW, WSC |
| Travel Path: | Around |
| Direction: | NB/SB/EB/WB |
| Pedestrians: | Through |
| Cyclists: | Unaffected |
| Posted Speed: | 50 kph |

Drafted By:
David Stevens - TCT 1043731

Approved By:
Thomas McNair - TCT 0072729



SCALE OF PLAN (1 : 1000)



△ Joins WSC-1GS-24090393.3 Here

△ Joins WSC-1GS-24090393.2 Here

| Rev | Details | Date | By |
|-----|-----------------|------------|----|
| 0 | Initial Release | 30/09/2024 | DS |
| 1 | Revision | 04/11/2024 | DS |
| | | | |
| | | | |

TGS TITLE:

**Wingecarribee Shire Council -
Bowral Rd, Mittagong -
Half Rd Closure+Detour -
WSC-1GS-24090393.4**

TGS REQUIREMENTS:

| | |
|------------------|--------|
| Signs: | 50 |
| Controllers: | 12 |
| Traffic Lights: | 0 |
| TC Utes: | 3 |
| VMS Utes: | 0 |
| TMA: | 0 |
| Safety Buffer: | N/A |
| Taper Length: | 30m |
| Work Zone Speed: | 40 kph |
| Additional: | HVM |

WORKS DESCRIPTION:

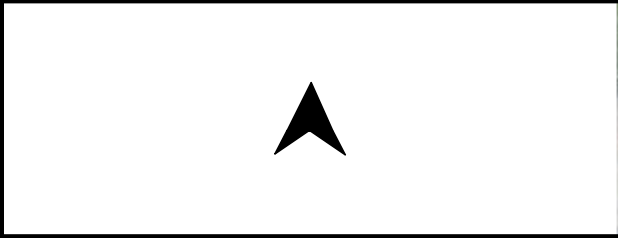
| | |
|--------------------------------|------------------------|
| Works Term: | Short |
| Operation: | Half Rd Closure+Detour |
| Lane Width: | 3.0m |
| Traffic Clearance to Worker: | ≤ 1.5m |
| Traffic Clearance to Objects : | 0.5m <65 |
| Traffic Cone Spacing @ 40km: | 4 m |
| Traffic Cone Spacing @ 60km: | 12 m |
| Traffic Cone Size: | 700mm |

SITE DESCRIPTION:

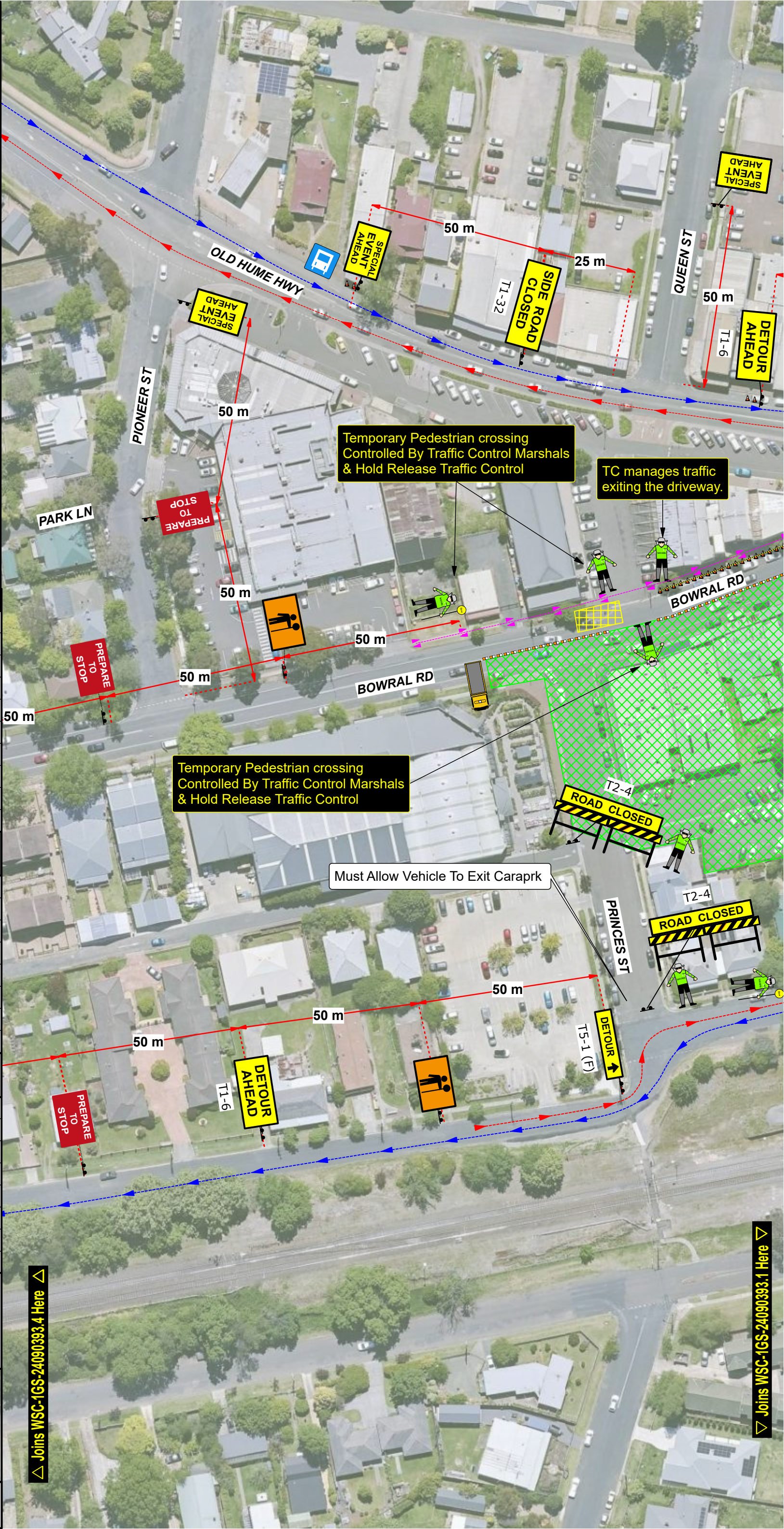
| | |
|-----------------|---------------|
| Road Category: | 2 |
| Road Type: | 2 way, 2 lane |
| Road Authority: | TfNSW, WSC |
| Travel Path: | Around |
| Direction: | NB/SB/EB/WB |
| Pedestrians: | Through |
| Cyclists: | Unaffected |
| Posted Speed: | 50 kph |

Drafted By:
David Stevens - TCT 1043731

Approved By:
Thomas McNair - TCT 0072729



SCALE OF PLAN (1 : 1000)



| Rev | Details | Date | By |
|-----|-----------------|------------|----|
| 0 | Initial Release | 30/09/2024 | DS |
| 1 | Revision | 04/11/2024 | DS |
| | | | |
| | | | |

TGS TITLE:

**Wingecarribee Shire Council -
Bowral Rd, Mittagong -
Half Rd Closure+Detour -
WSC-1GS-24090393.5**

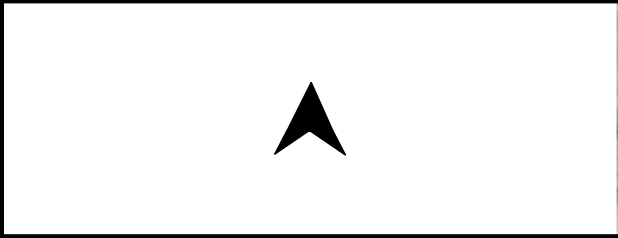
| TGS REQUIREMENTS: | |
|-------------------|--------|
| Signs: | 50 |
| Controllers: | 12 |
| Traffic Lights: | 0 |
| TC Utes: | 3 |
| VMS Utes: | 0 |
| TMA: | 0 |
| Safety Buffer: | N/A |
| Taper Length: | 30m |
| Work Zone Speed: | 40 kph |
| Additional: | HVM |

| WORKS DESCRIPTION: | |
|--------------------------------|------------------------|
| Works Term: | Short |
| Operation: | Half Rd Closure+Detour |
| Lane Width: | 3.0m |
| Traffic Clearance to Worker: | ≤ 1.5m |
| Traffic Clearance to Objects : | 0.5m <65 |
| Traffic Cone Spacing @ 40km: | 4 m |
| Traffic Cone Spacing @ 60km: | 12 m |
| Traffic Cone Size: | 700mm |

| SITE DESCRIPTION: | |
|-------------------|---------------|
| Road Category: | 2 |
| Road Type: | 2 way, 2 lane |
| Road Authority: | TfNSW, WSC |
| Travel Path: | Around |
| Direction: | NB/SB/EB/WB |
| Pedestrians: | Through |
| Cyclists: | Unaffected |
| Posted Speed: | 50 kph |

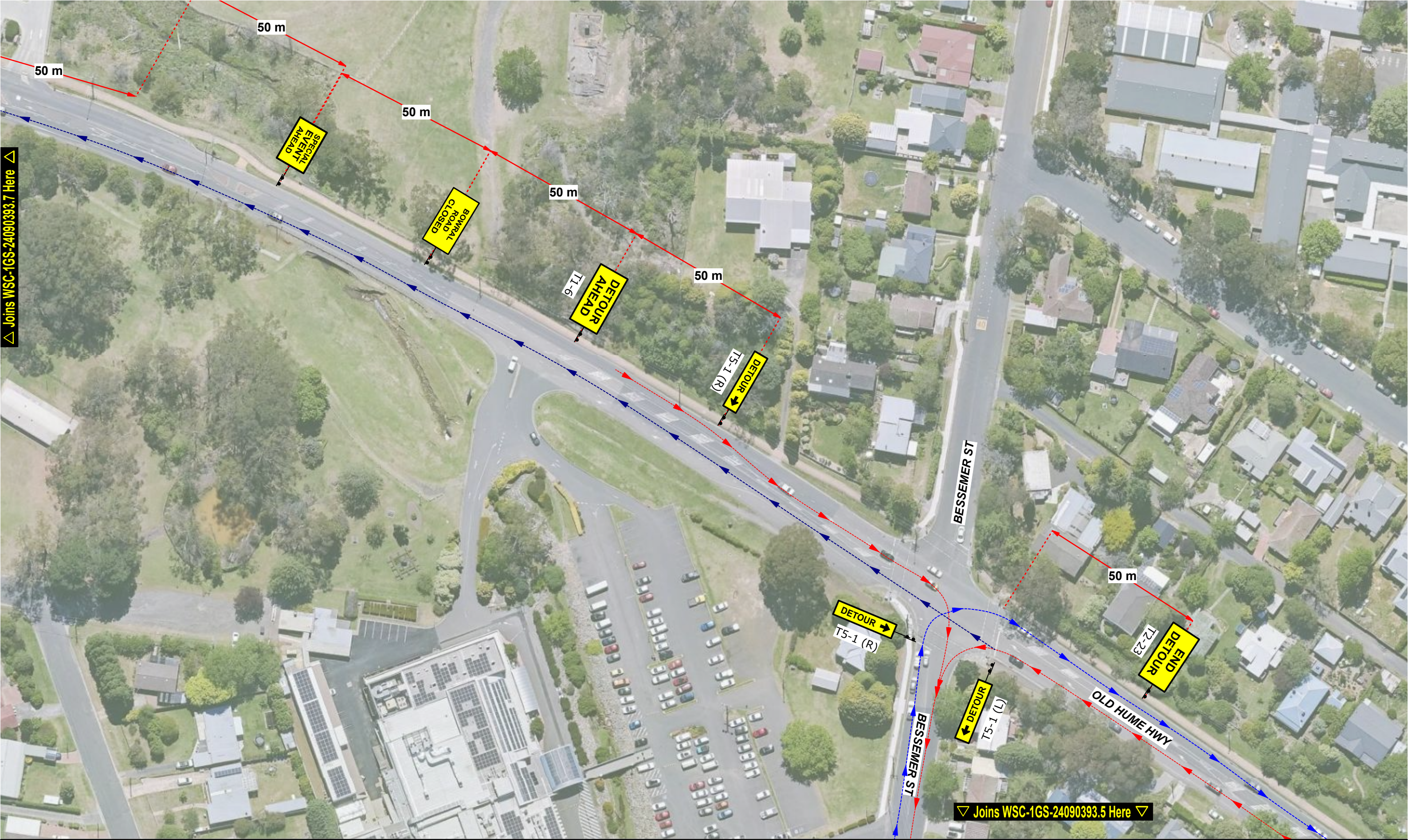
Drafted By:
David Stevens - TCT 1043731

Approved By:
Thomas McNair - TCT 0072729




SCALE OF PLAN (1 : 1000)





TGS TITLE: Wingecarribee Shire Council - Bowral Rd, Mittagong - Half Rd Closure+Detour - WSC-1GS-24090393.6

| Rev | Details | Date | By | TGS REQUIREMENTS: | | | | WORK SITE DESCRIPTION: | | | | | | SCALE OF PLAN (1 : 1000) | | |
|-----|-----------------|------------|----|-------------------|----|----------------|------------------------|------------------------|--------|--------------------------------|----------|---|---------------|--------------------------|-------------|---|
| 0 | Initial Release | 30/09/2024 | DS | Signs: | 50 | TMA: | 0 | Works Term: | Short | Traffic Clearance to Worker: | ≤ 1.5m | Road Category: | 2 | Direction: | NB/SB/EB/WB |  |
| 1 | Revision | 04/11/2024 | DS | Controllers: | 12 | Additional: | HVM | Travel Path: | Around | Traffic Clearance to Objects : | 0.5m <65 | Road Type: | 2 way, 2 lane | Pedestrians: | Through | |
| | | | | Traffic Lights: | 0 | Safety Buffer: | N/A | Lane Width: | 3.0m | Traffic Cone Size: | 700mm | Road Authority: | TfNSW, WSC | Cyclists: | Unaffected | |
| | | | | TC Utes: | 3 | Taper Length: | 30m | Posted Speed: | 50 kph | Traffic Cone Spacing @ 40km: | 4 m | Drafted By: David Stevens - TCT 1043731 Approved By: Thomas McNair - TCT 0072729 | | | | |
| | | | | VMS Utes: | 0 | Operation: | Half Rd Closure+Detour | Work Zone Speed: | 40 kph | Traffic Cone Spacing @ 60km: | 12 m | | | | | |



TGS TITLE:

Wingecarribee Shire Council - Bowral Rd, Mittagong - Half Rd Closure+Detour - WSC-1GS-24090393.7

| Rev | Details | Date | By | TGS REQUIREMENTS: | | | | WORK SITE DESCRIPTION: | | | | | | SCALE OF PLAN (1 : 1000) | |
|-----|-----------------|------------|----|------------------------|----|-----------------------|------------------------|-------------------------|--------|---------------------------------------|----------|---|---------------|--------------------------|-------------|
| 0 | Initial Release | 30/09/2024 | DS | Signs: | 50 | TMA: | 0 | Works Term: | Short | Traffic Clearance to Worker: | ≤ 1.5m | Road Category: | 2 | Direction: | NB/SB/EB/WB |
| 1 | Revision | 04/11/2024 | DS | Controllers: | 12 | Additional: | HVM | Travel Path: | Around | Traffic Clearance to Objects : | 0.5m <65 | Road Type: | 2 way, 2 lane | Pedestrians: | Through |
| | | | | Traffic Lights: | 0 | Safety Buffer: | N/A | Lane Width: | 3.0m | Traffic Cone Size: | 700mm | Road Authority: | TfNSW, WSC | Cyclists: | Unaffected |
| | | | | TC Utes: | 3 | Taper Length: | 30m | Posted Speed: | 50 kph | Traffic Cone Spacing @ 40km: | 4 m | Drafted By: David Stevens - TCT 1043731 Approved By: Thomas McNair - TCT 0072729 | | | |
| | | | | VMS Utes: | 0 | Operation: | Half Rd Closure+Detour | Work Zone Speed: | 40 kph | Traffic Cone Spacing @ 60km: | 12 m | | | | |



| Rev | Details | Date | By |
|-----|-----------------|------------|----|
| 0 | Initial Release | 30/09/2024 | DS |
| 1 | Revision | 04/11/2024 | DS |
| | | | |
| | | | |

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TGS TITLE:

**Wingecarribee Shire Council -
Bowral Rd, Mittagong -
Half Rd Closure+Detour -
WSC-1GS-24090393.9**

TGS REQUIREMENTS:

| | |
|------------------|--------|
| Signs: | 50 |
| Controllers: | 12 |
| Traffic Lights: | 0 |
| TC Utes: | 3 |
| VMS Utes: | 0 |
| TMA: | 0 |
| Safety Buffer: | N/A |
| Taper Length: | 30m |
| Work Zone Speed: | 40 kph |
| Additional: | HVM |

WORKS DESCRIPTION:

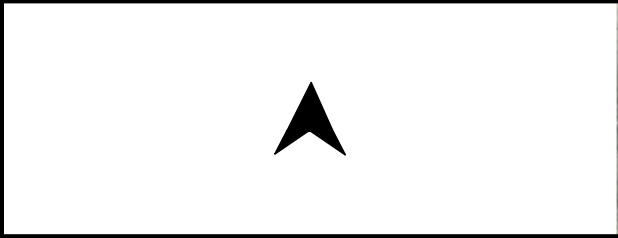
| | |
|--------------------------------|------------------------|
| Works Term: | Short |
| Operation: | Half Rd Closure+Detour |
| Lane Width: | 3.0m |
| Traffic Clearance to Worker: | ≤ 1.5m |
| Traffic Clearance to Objects : | 0.5m <65 |
| Traffic Cone Spacing @ 40km: | 4 m |
| Traffic Cone Spacing @ 60km: | 12 m |
| Traffic Cone Size: | 700mm |

SITE DESCRIPTION:

| | |
|-----------------|---------------|
| Road Category: | 2 |
| Road Type: | 2 way, 2 lane |
| Road Authority: | TfNSW, WSC |
| Travel Path: | Around |
| Direction: | NB/SB/EB/WB |
| Pedestrians: | Through |
| Cyclists: | Unaffected |
| Posted Speed: | 50 kph |

Drafted By:
David Stevens - TCT 1043731

Approved By:
Thomas McNair - TCT 0072729



SCALE OF PLAN (1 : 1000)



| Rev | Details | Date | By |
|-----|-----------------|------------|----|
| 0 | Initial Release | 30/09/2024 | DS |
| 1 | Revision | 04/11/2024 | DS |
| | | | |
| | | | |

TGS TITLE:

**Wingecarribee Shire Council -
Bowral Rd, Mittagong -
Half Rd Closure+Detour -
WSC-1GS-24090393.8**

TGS REQUIREMENTS:

| | |
|------------------|--------|
| Signs: | 50 |
| Controllers: | 12 |
| Traffic Lights: | 0 |
| TC Utes: | 3 |
| VMS Utes: | 0 |
| TMA: | 0 |
| Safety Buffer: | N/A |
| Taper Length: | 30m |
| Work Zone Speed: | 40 kph |
| Additional: | HVM |

WORKS DESCRIPTION:

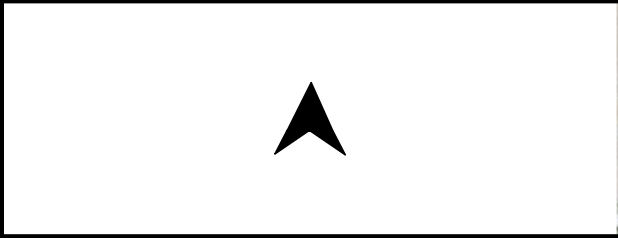
| | |
|--------------------------------|------------------------|
| Works Term: | Short |
| Operation: | Half Rd Closure+Detour |
| Lane Width: | 3.0m |
| Traffic Clearance to Worker: | ≤ 1.5m |
| Traffic Clearance to Objects : | 0.5m <65 |
| Traffic Cone Spacing @ 40km: | 4 m |
| Traffic Cone Spacing @ 60km: | 12 m |
| Traffic Cone Size: | 700mm |

SITE DESCRIPTION:

| | |
|-----------------|---------------|
| Road Category: | 2 |
| Road Type: | 2 way, 2 lane |
| Road Authority: | TfNSW, WSC |
| Travel Path: | Around |
| Direction: | NB/SB/EB/WB |
| Pedestrians: | Through |
| Cyclists: | Unaffected |
| Posted Speed: | 50 kph |

Drafted By:
David Stevens - TCT 1043731

Approved By:
Thomas McNair - TCT 0072729



SCALE OF PLAN (1 : 1000)



▽ Joins WSC-1GS-24090393.7 Here ▽

▽ Joins WSC-1GS-24090393.9 Here ▽