

Boundary Road and Robert Street Intersection Signalisation

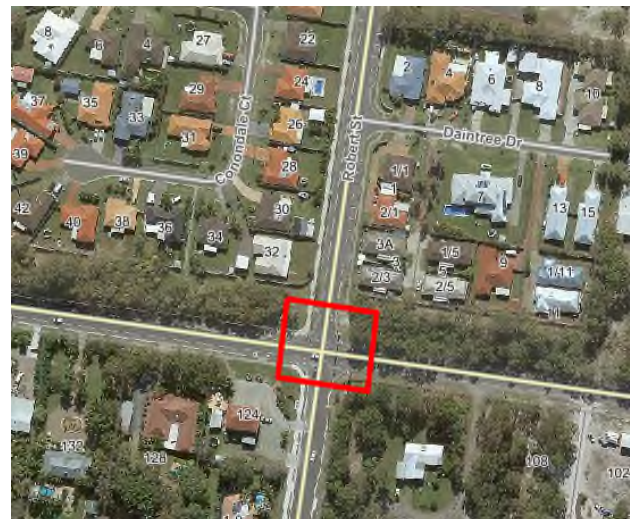
Overview

The intersection of Boundary Road/Robert Street/Hughes Road is a busy four-way intersection, with Give-Way signs on Robert Street and Hughes Road.

Both Robert St and Hughes Rd are designated as Major Collector Streets under the Fraser Coast Planning Scheme. Hughes Rd services the Star of the Sea School plus suburban areas, and Robert St services Sandy Straits State School and Urangan High School as well as being a connector street through to Boat Harbour Drive. Both roads carry high volumes of traffic at school times.

Boundary Road is designated as a Traffic Distributor Road under the Fraser Coast Planning Scheme.

The current intersection at Boundary Rd and Robert St provides unsatisfactory traffic performance at peak periods (around school start and finish times) and upgrading and signalisation will provide considerable improvements to traffic performance as well as pedestrian safety during these peak periods.



Project Status

At this point in time, signalisation works are planned for completion in the 2021/22 and 2022/23 financial years. The completion of the works are subject to the allocation of funding in future budgets; however, Stage 1 works for this project, which will provide for the relocation of high and low voltage infrastructure services at the Boundary Road and Robert Street intersection, are planned for completion by June 2021.

Project Estimate

\$5M

What to expect

Construction impacts from the Stage 1 Service Relocation works will be minimal for the majority of residents in this area with particular detail and site plans detailed below relating to trenching works:-

- The initial trenching works for the 11kv civil conduit will be constructed at the rear of houses along Boundary Road, across the intersection and then along the frontage of properties located in Boundary and Hughes Roads.
- Following the completion of the 11kv trenching works, the high voltage trenching works (66kV) will be constructed along Boundary Road at the rear of houses and then along Robert Street past Daintree Drive to the pole located adjacent to the school boundary.

To enable the completion of the Stage 1 Service Relocation works, vegetation in the trenching area will be impacted. For every tree removed as part of the trenching process, Council plans a 2:1 replacement program at an alternative suitable location.

INDICATIVE PROJECT MILESTONES	
July 2020	Final Design
2021/22	Tender Period
TBA	Construction Period
TBA	Project Completion

Note: Project milestones are subject to funding, contract and weather and may change.

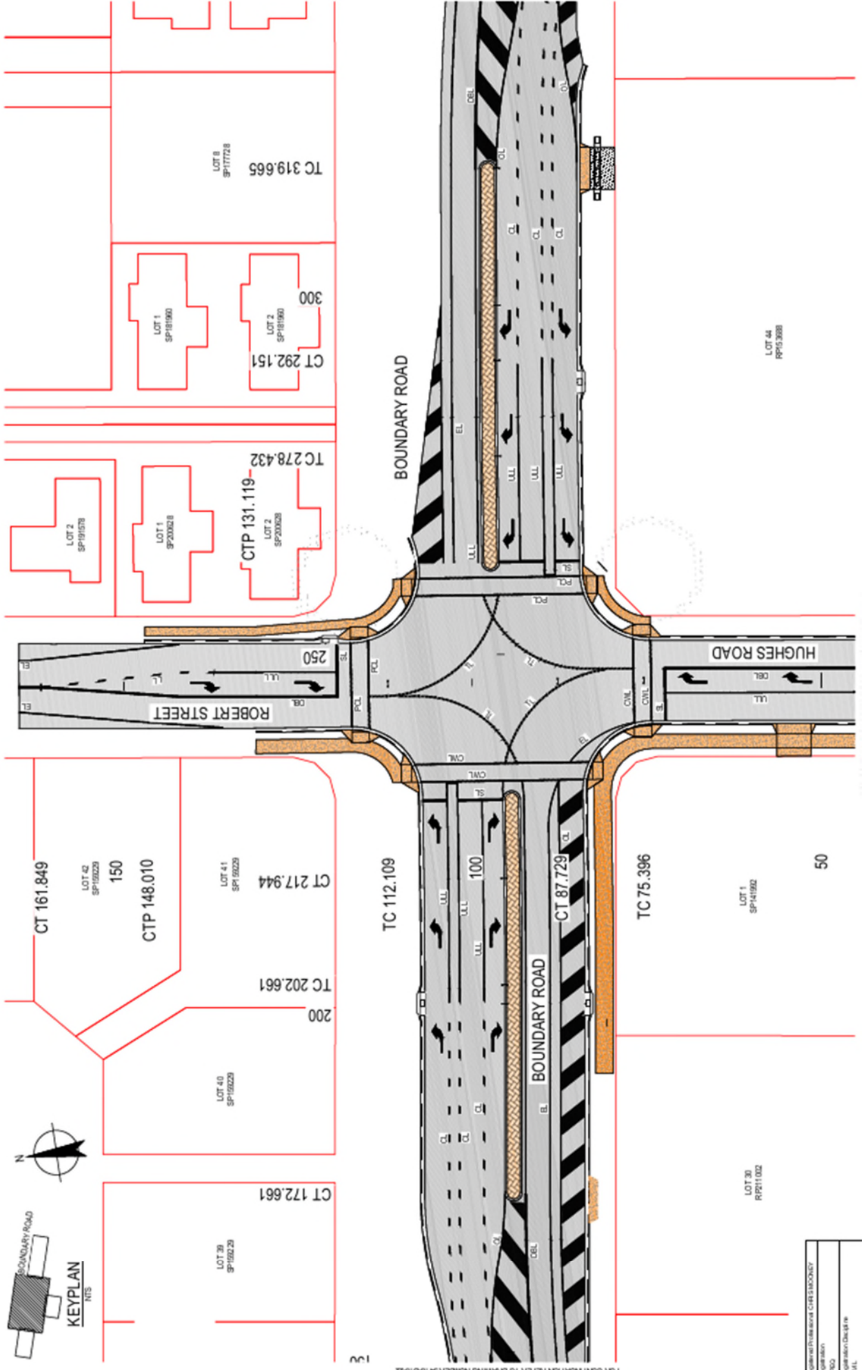


Trenching Location 11kv civil conduit



Trenching Location 60kv civil conduit

Boundary Road and Robert Street Intersection Signalisation



CONSULTANT: CHRIS J. MOONEY
 DATE: 10/10/2023
 NO: 2023/001
 DRAWN BY: CHRIS J. MOONEY
 CHECKED BY: CHRIS J. MOONEY

Date: 27th January 2021 **Author:** Selwyn Pohoiwi OP242 **Project:** Boundry Road & Robert Street Works
Rev #: 1 **MUTCD Release Date:** 29th NOVEMBER 2019 **MUTCD Figure:** 5-1.4B
TGS: JACC-BOUNDRY STREET 1001 -2021 **Stage:** ONE OF FOUR

Comments:

NOTES:

- 1 - Works to include Boundry Road & Robert Street Underground Electricity Works & Associated Roadworks
- 2 - Any Conflicting Signage must be covered
- 3 - Local access shall be considered
- 4 - Monitor and adjust traffic flow as required any changes to be risk assessed and noted at Daily Prestart
- 5 - If Traffic Queues risk access and place Queued Traffic signage
- 6 - Delays to be 15min Max
- 7 - Lights may be turned To Manual during Peak Times for less disruptions if required.
- 8 - Give Way Signs on Hughes Road & Robert Street to be covered.

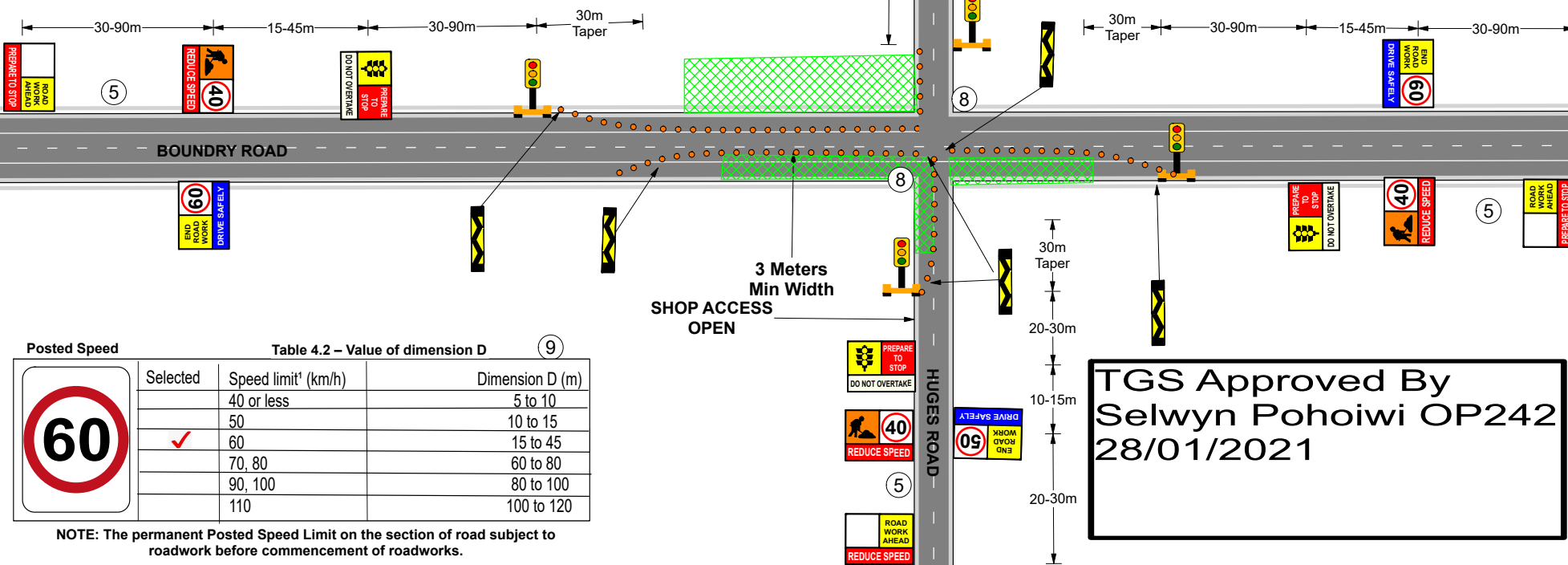


Legend

- Cones Or Bollards
- Work Area

Day time 4-way Traffic Lights

- " Primary work shift
- " 4-way Traffic Lights on motion activated
- " Traffic lights located each side of works on Boundry Road, Robert St & Hughes Rd
- " 1x Traffic controller onsite (7AM - 6PM) to perform manual override during peak traffic volumes and signage checks.
- " Restrict traffic through intersection to single lane (move traffic lane using lateral shift)
- " Access to shop carpark to be maintained
- " TGS is active for Monday - Friday 7AM - 6PM



Posted Speed

Table 4.2 – Value of dimension D

⑨

Selected	Speed limit ¹ (km/h)	Dimension D (m)
	40 or less	5 to 10
✓	60	15 to 45
	70, 80	60 to 80
	90, 100	80 to 100
	110	100 to 120

NOTE: The permanent Posted Speed Limit on the section of road subject to roadwork before commencement of roadworks.

TGS Approved By
Selwyn Pohoiwi OP242
28/01/2021

Date: 27th January 2021 Author: Selwyn Pohoiwi OP242 Project: Boundry Road & Robert Street Works
 Rev #: 1 MUTCD Release Date: 29th NOVEMBER 2019 MUTCD Figure: 5-1.4B
 TGS: JACC-BOUNDRY STREET 1002 -2021 Stage: ONE OF FOUR



Comments:

NOTES:

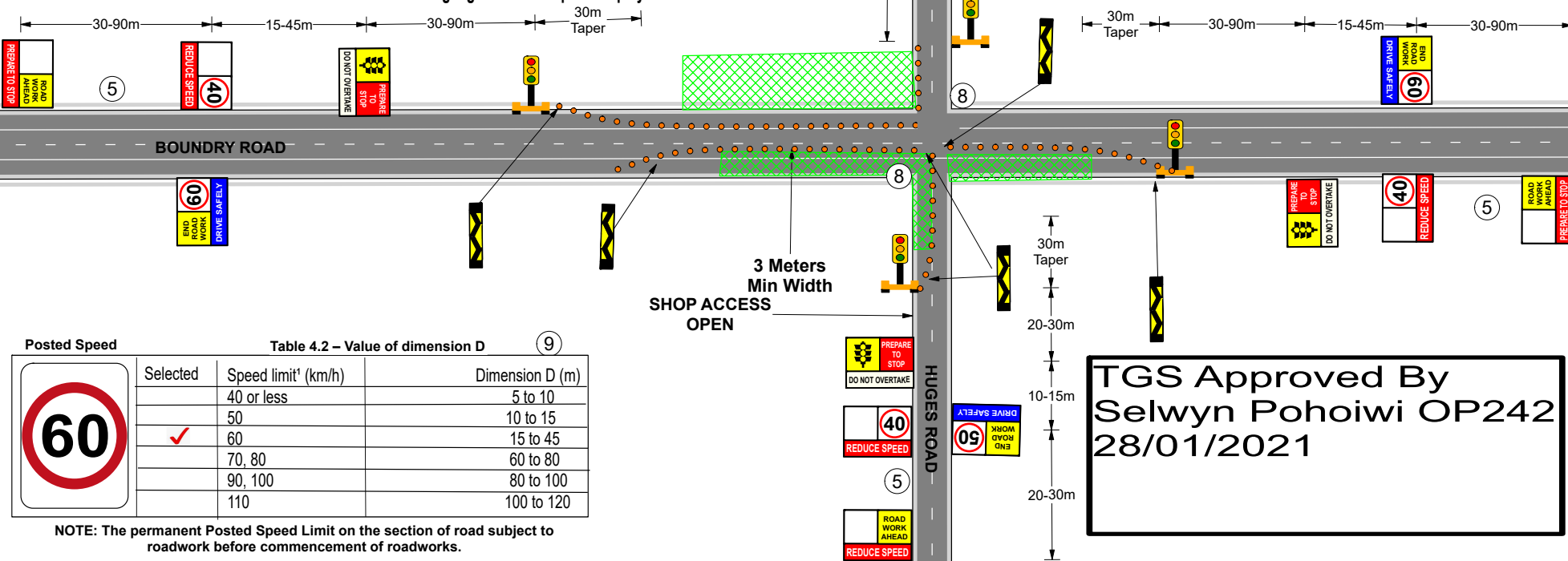
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- 5 - If Traffic Queues risk access and place Queued Traffic signage
- 6 - Delays to be 15min Max
- 7 - Lights may be turned To Manual during Peak Times for less disruptions if required.
- 8 - Give Way Signs on Hughes Road & Robert Street to be covered.

TGS 2: Night time 4-way Traffic Lights (and weekend)

- " No work to be undertaken
- " 4-way Traffic Lights on motion activated
- " Traffic lights located each side of works on Boundry Road, Robert St & Hughes Rd
- " No traffic controller onsite
- " Restrict traffic through intersection to single lane (move traffic lane using lateral shift)
- " Access to shop carpark to be maintained
- " TGS is active for Monday - Friday 6PM - 7AM + Saturday & Sunday 24Hrs

AFTER HOURS NOTES

- *Cones Or Bollards to be moved to the kerb if required
- *Barricading around hazardous areas
- *Close Workman Signage and leave speed displayed



Legend

- Cones Or Bollards
- Work Area

Posted Speed Table 4.2 – Value of dimension D ^⑨

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28/01/2021

Date: 27th January 2021 **Author:** Selwyn Pohoiwi OP242 **Project:** Boundry Road & Robert Street Works
Rev #: 1 **MUTCD Release Date:** 29th NOVEMBER 2019 **MUTCD Figure:** 5-1.4B & 5-1.28
TGS: JACC-BOUNDRY STREET 1003 -2021 **Stage:** THREE OF THREE

Comments:

NOTES:

- 1 - Works to include Boundry Road & Robert Street Underground Electricity Works & Associated Roadworks
- 2 - Any Conflicting Signage must be covered
- 3 - Local access shall be considered
- 4 - Monitor and adjust traffic flow as required any changes to be risk assessed and noted at Daily Prestart
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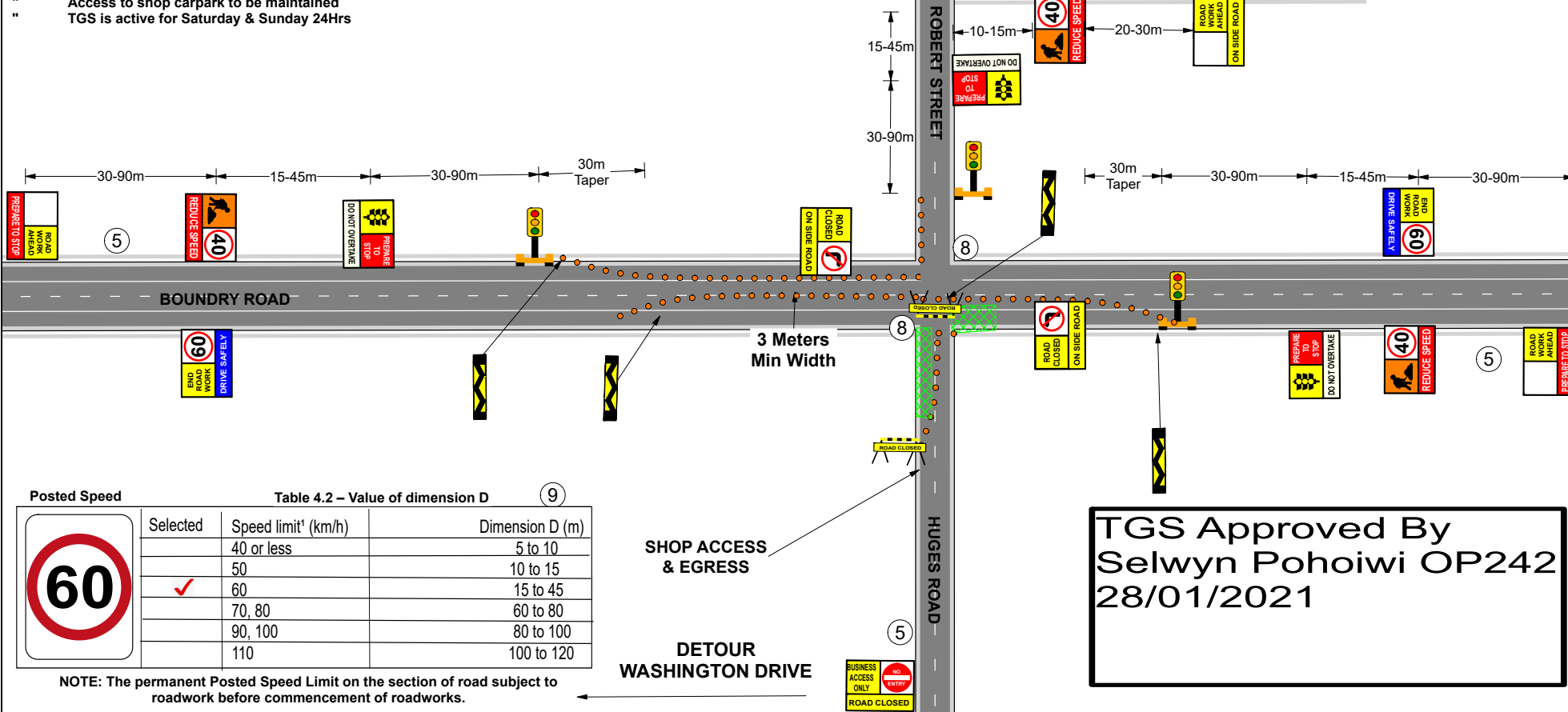


TGS 3: Weekend shutdown of Hughes Rd (Day & Night)

- Works to happen during day time
- 4-way Traffic Lights on motion activated (3 active - Hughes Rd turned off)
- Hughes Rd closed at shop driveway and interface with Boundary Rd
- Traffic lights located each side of works on Boundary Road & Robert St
- No traffic controller onsite
- Restrict traffic through intersection to single lane (move traffic lane using lateral shift)
- Access to shop carpark to be maintained
- TGS is active for Saturday & Sunday 24Hrs

Legend

- Cones Or Bollards
- Work Area



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