

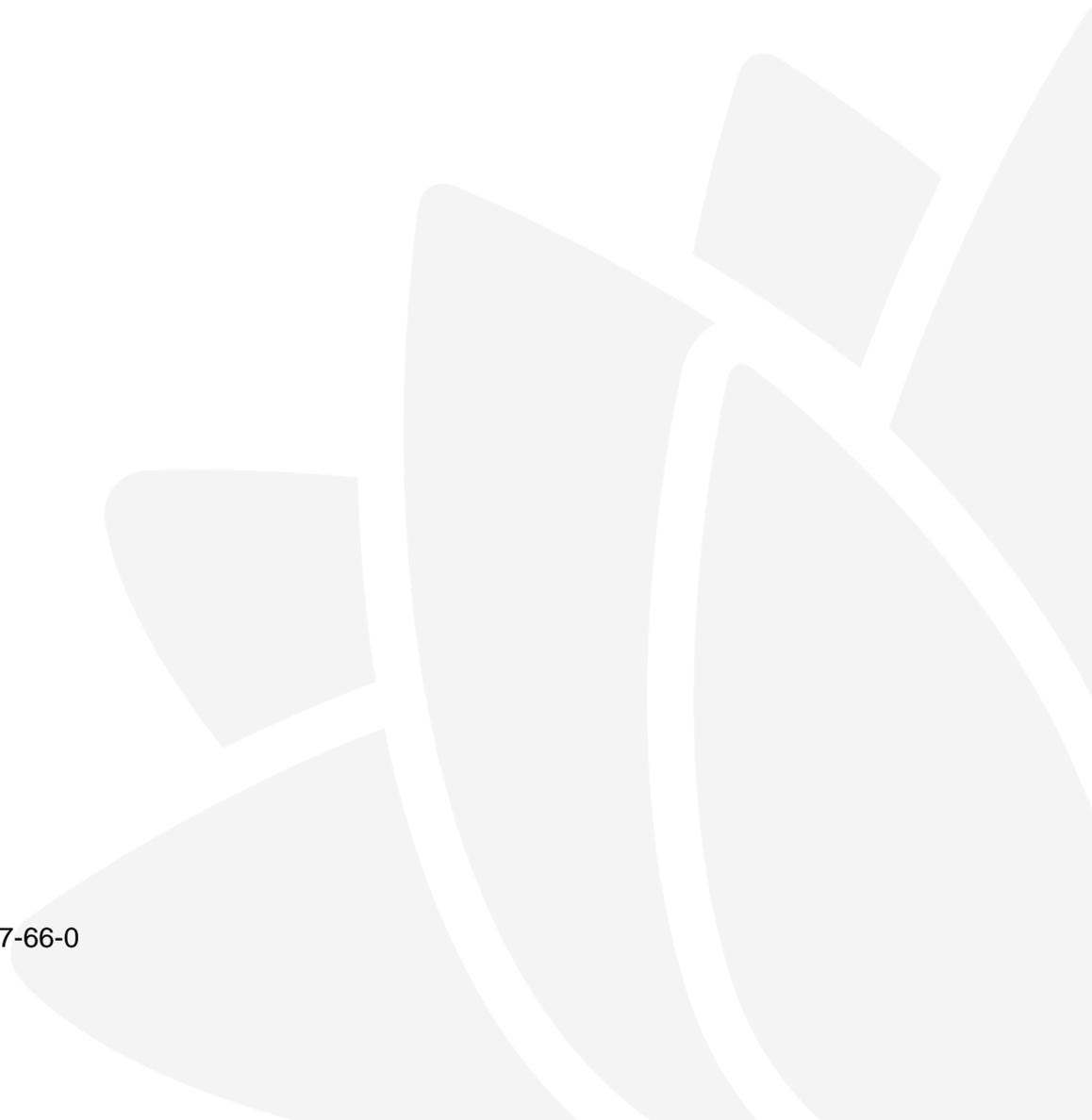
Showground Road and Carrington Road, Castle Hill intersection upgrade

Community consultation report

Roads and Maritime Services | February 2018

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Executive summary

This report provides a summary of the community and stakeholder consultation carried out by Roads and Maritime Services ('Roads and Maritime') in June 2017 on the proposed intersection improvements of Showground Road and Carrington Road in Castle Hill. The original proposal presented to the community for feedback in June 2017 involved the widening and upgrading of about 600 metres of Showground Road and about 180 metres of Carrington Road.

The NSW Government is funding this proposal as part of the Bus Priority Infrastructure Program, which aims to improve the reliability and efficiency of bus services, while easing congestion for all road users.

The proposal will:

- improve the reliability of bus services and journey times through the intersection
- help ease congestion and improve travel times for all road users, particularly during peak periods
- improve pedestrian safety and the flow of traffic along Showground Road
- complement the road upgrades currently being carried out by Roads and Maritime on Showground Road, between Carrington Road and Old Northern Road in Castle Hill
- improve access to the proposed Showground Metro Station.

Features of the original proposal include:

- widening the north side of Showground Road to provide two eastbound through lanes and two right turn lanes onto Carrington Road within the existing road corridor
- providing a westbound bus lane along Showground Road about 60 metres either side of Precinct Street B (which was identified as Doran Drive in the 'Have Your Say' notification)
- providing a dedicated westbound left turn lane, buses excepted, on Showground Road for southbound access onto Carrington Road
- widening the west side of Carrington Road to provide two right turn lanes onto Showground Road eastbound, a new dedicated left turn lane onto Showground Road westbound with a new signalised pedestrian crossing, two southbound exit lanes, a new traffic island and upgraded signalised pedestrian crossings on Showground Road
- lane resurfacing and upgrading of pedestrian crossings
- providing a 2.5 metre wide shared footpath and cycleway along the northern side of Showground Road for the extent of the proposed roadworks
- relocating the northbound bus stop on Carrington Road for the proposed Showground Metro Station interchange
- removing some trees and some parking.

We distributed over 11,000 community updates to the local area and key stakeholders, inviting feedback on the proposed improvements.

We received responses from 29 community members. Key areas of interest for community members with respect to the proposal included:

- general project support
- stakeholder and community consultation (concept diagram, on-going and future consultation)
- proposal design and scope (road design and intersection layout, utilities, bus priority infrastructure facilities, pedestrian and cycling facilities)
- environmental considerations (tree removals, pedestrian safety)

- project justification and cost.

We have directly responded to all community members who provided feedback.

After considering all community responses, council and other stakeholder feedback and with consideration of further design requirements needed to address some of this feedback and to align with the proposal's aims and requirements, we have decided to proceed with the proposed intersection improvements of Showground Road and Carrington Road, Castle Hill subject to the following changes to the original proposal:

- extending the scope of the proposal along Carrington Road from 180 metres to 240 metres up to the intersection tie-in with Middleton Avenue
- the proposed 'shared path' on the north side of Showground Road is now a 'widened footpath' to align with adjacent road works on Showground Road (to be dedicated as a shared path by council in the future if they chose to do so)
- extending the scope of the proposal to the north of Showground Road to provide for the necessary stormwater drainage works for the proposal
- inclusion of an additional alternative site compound site at Memorial Avenue in Kellyville (opposite Burns Road)
- inclusion of an additional alternative stockpile site at Hills Shire Pony Club at Gilbert Road in Castle Hill.

Roads and Maritime thanks everyone who reviewed the proposal and provided feedback.

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1.0 Introduction

1.1 Background

Castle Hill is undergoing significant transformation, as part of investment and development associated with Sydney Metro Northwest and Castle Hill Towers shopping centre expansion. The importance of a reliable bus network has been identified as a priority by the NSW Government and with the ongoing development in the area, there is a need to provide solutions to alleviate congestion on Showground Road to support this growth.

Showground Road provides a major road link between the Castle Hill shopping centre/commercial precinct (Castle Hill centre) and Sydney's North West Growth Centre, Castle Hill centre to the east, and the Castle Hill Trading Zone (located around Victoria Avenue), Norwest, and the Norwest Business Park to the west. Once Sydney Metro Northwest is constructed (in the first half of 2019), Showground Road will also provide a key road traffic link to the new Showground and Castle Hill Metro Stations and high density residential and commercial developments proposed in the areas surrounding these Metro Stations.

The improvement of the Showground Road/Carrington Road intersection is considered to be a key infrastructure upgrade that would further support the current upgrade of Showground Road, which is currently in the delivery stages and is scheduled for completion by late-2018.

The proposal is also consistent with a variety of NSW and local strategies focused on improving public transportation throughout the state, revitalising suburbs and improving connectivity.

1.2 The proposal

Transport for NSW, in partnership with Roads and Maritime, is proposing to upgrade the intersection of Showground Road and Carrington Road in Castle Hill. The original proposal that went to the community for feedback in June 2017 involves the widening and upgrading of about 600 metres of Showground Road and about 180 metres of Carrington Road (refer Figure 1-1).

Key features of the proposal would include:

- Widening and upgrading about 600 metres of Showground Road from a two-lane partially divided carriageway to a four-lane divided carriageway with additional turning lanes at intersections. This involves:
 - Widening on the north side of Showground Road for around 300 metres to provide for two eastbound through lanes
 - Providing two right turn lanes from Showground Road eastbound into Carrington Road southbound
 - Maintaining the existing eastbound right turn lane on Showground Road for southbound access into Precinct Street B
 - Maintaining the kerbside westbound left turn from Showground Road into Carrington Road southbound (this lane would be line marked as 'buses excepted' allowing westbound through movement of buses along Showground Road)
 - Providing a westbound bus lane along Showground Road around 60 metres either side of Precinct Street B
 - Providing a dedicated westbound left turning lane (line marked as buses excepted around 60 metres prior to Precinct Street B) for southbound access into Precinct Street B
 - Constructing a concrete median of varying width.

- Upgrading and widening about 180 metres of Carrington Road to provide a two-lane carriageway, with a new high-angle left turn lane (with new traffic island and signalised pedestrian crossing) northbound from Carrington Road for westbound access onto Showground Road. This involves:
 - Removing an area of unrestricted on-street parking on the northern approach to Showground Road (including the removal of an existing bus stop)
 - Acquiring a section of Sydney Metro owned land to provide for the modified left turn lane and footway area
 - Widening of Carrington Road, allowing for the provision of two right turn lanes for northbound access out of Carrington Road onto Showground Road eastbound.
- Resurfacing of Showground Road and Carrington Road carriageways
- Adjustments and modifications to the existing traffic signals at the intersections of Showground Road/Carrington Road and Showground Road/Precinct Street B to cater for the intersection upgrades and priority measures for buses
- Upgrading pedestrian crossings on Showground Road at the intersections with Carrington Road and Precinct Street B
- Provision of a 2.5 metre wide shared footpath and cycleway along the northern side of Showground Road
- Maintaining the 1.5 metre wide footpath along the southern side of Showground Road to the east of Carrington Road and maintaining the existing 2.5 metre existing shared path to the west of Carrington Road
- Adjusting property accesses on the northern side of Showground Road to be compatible with the proposed road widening and revised boundary levels
- Relocating and/or adjusting utility services that are in conflict with the proposal
- Maintaining existing bus stops on Showground Road and Carrington Road, however the existing northbound stop on Carrington Road would require removal due to the new left turn lane (note: bus stops in the area will be reviewed by TfNSW as part of the North West bus service plan and integrate with the new Metro Station interchange which is not part of the scope of this proposal)
- Removal of street trees to allow for the widening along the north side of Showground Road and west side of Carrington Road as part of the intersection upgrade.

After considering all community responses, council and other stakeholder feedback and with consideration of further design requirements needed to address some of this feedback and to align with the proposal's aims and requirements, some changes are proposed to the original proposal described above which are outlined in Section 4 of this report.

Further communications about the proposal will be provided to the community and stakeholders as the project progresses.

Figure 1-1 Original scope of the proposal as presented to the community



Please note in the 'Have your say – Proposed improvements at the intersection of Showground Road and Carrington Road, Castle Hill' Roads and Maritime Services released in June 2017 Precinct Street B was incorrectly identified as Doran Drive.

2.0 CONSULTATION APPROACH

2.1 Consultation objectives

We consulted with the community and key stakeholders on the proposal to:

- Seek comment, feedback, ideas, and suggestions for us to consider when developing the proposal, including consultation outcomes into the environmental impact assessment known as a review of environmental factors
- Build a database of interested and concerned community members with whom we can continue to engage during the proposal's development and delivery.

2.2 How consultation was done

Consultation was carried out from 16 June 2017 to 29 June 2017. Community members and stakeholders were encouraged to provide their feedback and make comments via email, mail or phone contact with the project team.

We contacted people using a range of tools. Table 2-1 outlines the communication tools used to inform the community about the proposal.

Table 2-1 – Communication tools

Tools	Method
Community Letter Have Your Say community update – June 2017 (refer Appendix A)	<ul style="list-style-type: none">• Distributed to over 11,000 local residents, businesses and key stakeholders in the Castle Hill area (refer Appendix B for distribution area)• Direct emails and letters sent to businesses, utilities, emergency services, schools, hospitals, community groups and relevant stakeholders in the local area• Direct email to Hills Shire Council, State and Federal ministers and members of Parliament.
Website	<ul style="list-style-type: none">• Details of the proposal uploaded on the Roads and Maritime website.
Local Newspaper	<ul style="list-style-type: none">• A public notice was provided in The Hills Shire Times in June 2017.

3.0 Consultation summary

3.1 Overview

Roads and Maritime received responses from 27 community members and two organisations on several matters (29 responses in total). A summary of the responses received is provided in Table 3-1.

Key areas of interest for community members with respect to the proposal included:

- stakeholder and community consultation (concept diagram, on-going and future consultation)
- proposal design and scope (road design and intersection layout, utilities, bus priority infrastructure, pedestrian and cycling facilities)
- environmental considerations (tree removal, pedestrian safety)
- project justification and cost.

A number of out of scope responses were also raised in relation to:

- other potential road and public transport improvements
- NSW road rules
- wider road network operations
- congestion charges for developments

3.2 Feedback summary and Roads and Maritime response

We have provided responses to all feedback received on this proposal, detailed in Table 3-1 of this report. Responses have also been provided directly to the community member who commented.

This report will be made available to the public via our website www.rms.nsw.gov.au.

All comments have been considered to help Roads and Maritime make a decision on this proposal.

Table 3-1 – Feedback summary and Roads and Maritime’s responses

Please note in the ‘Have your say – Proposed improvements at the intersection of Showground Road and Carrington Road, Castle Hill’ Roads and Maritime Services released in June 2017 Precinct Street B was incorrectly identified as Doran Drive.

Category	Sub-category	No. of responses	Summary of matters raised	Roads and Maritime’s response
Proposal support	Project wide	8	Supportive of the proposed intersection improvements.	Thank you for your comments on our proposal, we acknowledge your support.
Stakeholder and Community Consultation	Stakeholder involvement	1	Has Roads and Maritime Services met with Hills Bus to discuss their priorities?	The proposed intersection improvements are part of a long term plan to redesign the bus network to meet customer needs now and into the future. Roads and Maritime is working with Transport for NSW and their bus network operators (including Hills Bus) to improve the reliability and efficiency of bus services at this location and to service the future Showground Metro Station, whilst easing congestion for all road users.
	Concept Diagram	1	The diagram of Showground Road at Doran Drive shows three lanes, does this converge to two lanes? Are the three lanes exclusive for buses?	The proposed upgrade of Showground Road at Precinct Street B (incorrectly identified as Doran Drive in the ‘Have Your Say’ notification) is three lanes, which converges to two lanes heading east. The additional (60 metre) lane is exclusively for buses to provide them with a priority at the traffic lights.
		1	Pedestrian crossing locations require identification and discussion, as they cause major blockages of traffic.	Roads and Maritime assess pedestrian crossing locations to ensure minimal conflict with vehicles using the intersection and provide for a safe crossing point for pedestrians and cyclists. The proposed intersection upgrade includes pedestrian crossings placed along the western and southern side of the Carrington Road and Showground Road intersection and across the western and southern side of the Showground Road and Precinct Street B intersection. These changes will provide safer facilities for pedestrians and cyclists while the overall upgrade provides capacity improvements and more efficient intersection operation for all road users.
Justification and cost	Bus priority	1	How does the Showground Road and Carrington Road intersection upgrade advantage bus passengers?	The key advantage to bus passengers from the proposed Showground Road and Carrington Road intersection upgrade is the improved reliability of bus services and journey times at the intersection through a reduction in congestion due to the increased capacity of the intersection and the sections of

			Carrington Road and Showground Road which tie into this.
	1	What is the justification for adding dedicated bus lanes into Doran Drive, and what is the cost?	The proposal includes a westbound bus lane along Showground Road about 60 metres either side of Precinct Street B to allow for priority travel of buses through the intersection. The current proposal does not include dedicated bus lanes into Precinct Street B.
On-street parking demand	1	Parking requirements for units are inadequate. Cars will be parked on Carrington Road and surrounding streets, negating the upgrade.	<p>Thank you for your comments. Local councils determine parking requirements for new developments as part of the Development Application process and more broadly when considering any land use rezoning.</p> <p>Currently on Carrington Road within the proposal area, no parking is provided on the southbound side, as it is a No Stopping zone. On the northbound side, currently there exists temporary parking for the construction of the Showground Metro Station, however once the Metro station is operational, this parking will revert back to a No Stopping zone as it was previously. Hence no parking will be affected by this proposal. Any future changes to on street parking in this location would be determined by The Hills Shire Council.</p>
Future growth	3	The Showground Road and Carrington Road intersection upgrade is inadequate for future growth including when the metro station is complete.	<p>This proposal aims to reduce congestion specifically at the Showground Road and Carrington Road intersection in Castle Hill.</p> <p>The traffic modelling studies undertaken by Roads and Maritime has indicated the proposed intersection upgrades would provide enough capacity for the expected future traffic resulting from the proposed development in the area and the operational Metro station during peak times.</p>
Impacts on local roads	1	The upgrade to Showground Road will only cause bottlenecks at Windsor Road and Old Northern Road.	<p>Thank you for your suggestion, your comments have been noted.</p> <p>Roads and Maritime is currently developing proposals for the upgrade of the intersection of Showground Road and Windsor Road.</p>
Lane capacity	2	The additional right turn lane from Showground Road onto	The traffic modelling studies undertaken by Roads and Maritime has indicated the proposed intersection upgrades

			Carrington Road will not provide enough capacity for right turning traffic, in peak times.	would provide enough capacity for the expected future traffic resulting from the proposed development in the area and the operational Metro station during peak times.
		2	The left turn from Showground Road onto Carrington Road is just as busy as the left turn from Carrington Road onto Showground Road.	<p>There are similar traffic movements at both the eastern and western corners of Carrington Road and Showground Road.</p> <p>As part of this proposal, Roads and Maritime will be adjusting and optimising the timing of traffic lights. Due to an increased traffic light time for vehicles turning left from Showground Road into Carrington Road (providing a minimal delay), the installation of a traffic island was not deemed necessary at this time. The inclusion of a traffic island and dedicated left turn lane would have also resulted in private property impacts and the design development process has aimed to avoid or minimise these impacts where possible.</p>
Project design and scope	Road and intersection layout	2	Install 'Left turn at any time with care' from Carrington Road onto Showground Road, instead of a signalised left turn lane and pedestrian crossing.	<p>Thank you for your suggestion. Roads and Maritime have proposed a signalised left turn to allow the safe crossing for the increasing number of pedestrians expected to use the Metro station once it is operational.</p> <p>The stop traffic signal will be activated when a pedestrian needs to cross. Otherwise, the signalised left turn will operate as 'Left Turn at any time with care'.</p>
		2	Suggestion to install a traffic island on the eastern corner of the intersection of Carrington Road and Showground Road to permit a safe turn at all times.	As part of this proposal, Roads and Maritime will be adjusting and optimising the timing of traffic lights. Due to an increased traffic light time for vehicles turning left from Showground into Carrington Road (providing a minimal delay), the installation of a traffic island was not deemed necessary, at this time. The inclusion of a traffic island and dedicated left turn lane would have also resulted in private property impacts and the design development process has aimed to avoid these impacts where possible.
		2	The northern side of Carrington Road should be widened to two	Roads and Maritime are liaising with Sydney Metro regarding the reconfiguration of the Middleton Avenue and Carrington

			lanes, from the Middleton Avenue roundabout to Showground Road.	<p>Road roundabout to ensure that there is a good traffic and safety outcome for motorists along Carrington Road at the interface of these two proposals.</p> <p>It is now proposed to extend the scope of the works on Carrington Road an additional 60 metres southwards to tie-in with the Middleton Road intersection upgrades in the future.</p> <p>For more information about the Middleton Avenue roundabout reconfiguration please contact the Sydney Metro Community Information Line on 1800 019 989 or info@metronorthwest.com.au.</p>
		1	Longer slip lanes are needed for left turn from Showground Road onto Carrington Road and from Carrington Road onto Showground Road.	The traffic modelling studies undertaken by Roads and Maritime have indicated the proposed intersection upgrades would provide enough capacity for the expected future traffic resulting from the proposed development in the area and the operational Metro station during peak times. Given this, it is therefore not necessary to have longer slip lanes than what is currently proposed.
		1	Concerns there is no clear merge markings with the two right hand turn lanes from Showground Road eastbound into Carrington Road.	At the eastbound turn into Carrington Road, a zipper merge has been proposed. A zipper merge requires drivers to merge by giving way to any vehicle that is ahead of them where there are no lane markings and the number of lanes traffic has reduced. Roads and Maritime will install signage to make the lane merge arrangement clear for road users.
	Bus priority infrastructure	3	The buses need dedicated stopping bays, to aid with the flow of traffic.	<p>Thank you for your suggestion. There is no proposal to install indented stopping bays at this location at this time.</p> <p>Unless a bus bay is next to a kerbside bus lane, it is often difficult for buses to exit which then has an impact on the reliability of service. Kerbside bus lanes are not included as part this proposal.</p>
		1	Suggestion that the westbound bus stop on Showground Road between Carrington Road and Doran Drive be relocated immediately west of Doran Drive	Thank you for the suggestion. When the Metro station is operational these bus stops will be required to support the anticipated new bus routes. Should there be a need to consider the relocation, removal or combining of existing bus stops this would be determined in close consultation with

				Transport for NSW to make sure that the bus stop is located at a safe and suitable location.
		2	Suggestion that the two bus stops on Carrington Road between Showground Road and Middleton Avenue, and the two bus stops on Showground Road, east of Carrington Road should be combined and relocated to Showground Road immediately east of the Carrington Road intersection.	Thank you for the suggestion. When the Metro station is operational these bus stops will be required to support the anticipated new bus routes. Should there be a need to consider the relocation, removal or combining of existing bus stops, this would be determined in close consultation with Transport for NSW to make sure that the bus stop is located at a safe and suitable location.
		2	A dedicated bus lane is needed along length of Showground Road.	Thank you for your suggestion, there is no proposal to install a dedicated bus lane along Showground Road, at this time as part of this proposal. The traffic modelling carried out by Roads and Maritime has indicated that the proposed scheme will provide sufficient capacity and priority for buses along Showground Road.
		1	Will the dedicated bus lane on either side of Doran Drive have a timed bus signal?	As there are dedicated bus lanes to approach and exit the intersection of Showground Road and Precinct Street B, a dedicated bus traffic light is not deemed to be required. Bus traffic lights are only required when there is not a dedicated bus lane on the exit of the intersection.
	Pedestrian and cycling facilities	2	Pedestrian crossings need to be situated very close to bus stops; otherwise people will take short cuts across the road.	Future locations of any bus stops would be determined in close consultation with Transport for NSW and locating these to be close to safe and suitable crossing facilities for pedestrians and bus customers would inform this process.
		2	The pedestrian crossing at the intersection of Showground Road and Doran Drive will restrict traffic flow, and put lives at risk for impatient pedestrians. Suggestion to install a pedestrian bridge at this location now instead of later, to save costs.	Thank you for your suggestion. There are no current proposals to install a pedestrian bridge at this location. The traffic modelling studies undertaken by Roads and Maritime has indicated that the expected pedestrian traffic increases in this location will cause minimal delays to vehicles and the proposed pedestrian crossing arrangements are considered to be safe and suitable for this location.
		6	A traffic light system should be	This proposal includes traffic lights at the left turn slip lane from

			installed for cyclists to cross the proposed slip lane from Carrington Road, south into Showground Road.	Carrington Road, south into Showground Road allowing pedestrians and cyclists to cross safely. Bicycle traffic signal lanterns are proposed to be installed at these crossing locations.
		2	The footpath on the northern side of Showground Road should remain solely for use of pedestrians.	After further consideration, it is now proposed to establish a widened 2.5 metre footpath in this location rather than a shared path to be consistent with the adjacent Showground Road upgrades. The future possible designation of this wide footpath as a shared path would be a matter to be determined by The Hills Shire Council.
		1	The proposed shared path on the northern side of Showground Road should extend from Gilbert Road to Pennant Street.	Extension of the path on the northern side of Showground Road between Gilbert Road and Pennant Street is considered to be out of scope in regards to this proposal. After further consideration, it now proposed to establish a widened 2.5 metre footpath along the northern side of Showground Road rather than a shared path to be consistent with the adjacent Showground Road upgrades. The future possible designation of this widened footpath as a shared path would be a matter to be determined by The Hills Shire Council.
		2	Will the shared path that currently exists on the southern side of Showground Road be removed after the installation of the widened shared footpath at the northern side of Showground Road?	The Showground Road and Carrington Road intersection upgrade proposal does not include the removal of the shared path that currently exists on the southern side of Showground Road.
		6	Will the shared-path along the western side of Carrington Road between Victoria Road and Showground Road be removed?	The provision of shared paths in this location is the responsibility of The Hills Shire Council. The Showground Road and Carrington Road intersection upgrade proposal does not include the removal of the existing path along the western side of Carrington Road between Victoria Road and Showground Road and is outside of the extent of the proposal area. On the western side of Carrington Road north of Middleton Road (within the proposal area), the existing footpath will be

				removed and a new footpath will be provided next to the new left turn lane.
	Utility adjustments	1	Power poles need to be removed.	Thank you for your submission. Roads and Maritime will undertake investigation work to understand the location of utilities (including power poles) and their impact on the proposed design as part of developing a suitable utility strategy and design in agreement with the utility provider.
Environmental Assessment	Vegetation and Landscaping	1	What is the location of trees being removed?	<p>The proposed design has been developed to minimise the impact on mature trees where possible. The proposal requires the removal of some vegetation on the northern side of Showground Road (within the grass berm) and on land acquired for the provision of a dedicated left turn lane from Carrington Road to Showground Road.</p> <p>A Review of Environmental Factors is being prepared to assess the environmental impacts of the proposal and outline any necessary measures (safeguards) to reduce and mitigate the potential impacts associated with any tree removals proposed.</p>
	Pedestrian safety	1	Visibility will be an issue for cars reversing from driveways and the increasing number of fast moving cyclist's using the new shared path on northern side of Showground Road.	After further consideration, it now proposed to establish a widened 2.5 metre footpath in this location rather than a shared path to be consistent with the adjacent Showground Road upgrades. The future possible designation of this widened footpath as a shared path would be a matter to be determined by The Hills Shire Council.
Out of scope	Other public transport improvements (bus and rail)	1	A new bridge over Cattai Creek should be constructed for the continuation of a dedicated bus lane on Showground Road.	<p>Thank you for your suggestion. This is considered outside of the scope of the Showground Road and Carrington Road intersection upgrade proposal.</p> <p>There is no proposal to install a new bridge over Cattai Creek to support a dedicated bus lane along all of Showground Road at this time. The traffic modelling carried out by Roads and Maritime has indicated that the proposed scheme will provide sufficient capacity and priority for buses along Showground Road.</p>
		1	Will a bus stop be provided near the entrance to the future metro	The works being carried out to adjacent to the entrance of the Metro station south of Middleton Road is outside the scope of

			station, south of Middleton Avenue?	<p>the Showground Road and Carrington Road intersection upgrade proposal.</p> <p>Please contact Sydney Metro directly for further information on the proposed Metro station on 1800 019 989 or info@metronorthwest.com.au</p>
		2	Light Rail should be considered between Parramatta and Castle Hill.	<p>Thank you for your suggestion. This is considered to be out of scope for the proposed intersection upgrade proposal. For more information regarding future Light Rail projects please contact Transport for NSW directly on 131500.</p>
	Development congestion charges	1	Developers should be charged for the congestion they will cause.	<p>Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Developers usually need to make contributions to upgrade road infrastructure due to the increases in traffic demand created by their developments and this is part of the planning approval process with The Hills Shire Council.</p>
	Wider road network operations (traffic lights)	1	There are too many sets of traffic lights on Showground Road.	<p>The traffic lights along Showground Road are linked to Roads and Maritime's Sydney Coordinated Adaptive Traffic System (SCATS). SCATS is a traffic management system that synchronises nearby traffic signals to optimise traffic flow across the road network.</p> <p>Roads and Maritime reviews the timing of the phases for all traffic lights to ensure traffic is managed. The availability of additional traffic lanes on Showground Road between Carrington Road and Old Northern Road will provide additional capacity to reduce delays and more efficient and reliable travel along the corridor for all road users.</p>
		1	An alternative to traffic lights needs to be found, as traffic lights are the causes of congestion.	<p>Thank you for your comment, there is no proposal to install alternatives to traffic lights at this location.</p>

Other pedestrian and cycling facilities	1	The existing shared cycleway along Carrington Road should be painted and signposted to Austroads Guidelines.	<p>Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade and is an issue to be resolved by The Hills Shire Council.</p> <p>All proposed footpaths installed by Roads and Maritime as part of this proposal will be line marked and sign posted as per Austroads and Roads and Maritime guidelines. After further consideration, shared paths are no longer proposed as part of this proposal.</p>
	1	Reopen the closed section of shared path on Carrington Road, from Showground Road to Middleton Avenue.	Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade.
	1	Cycling should be supported with the installation of more cycle lanes paired with train transport through rural areas linking up higher density cities.	Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Your comments have been noted.
NSW road rules	1	Roads and Maritime Services should adopt new laws to allow cyclists to ride across pedestrian crossings.	Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Your comments have been noted.
	1	NSW Road Rules 'How to ride the safe' requires a review, as the 1.5m clearance from parked cars is unsuitable.	Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Your comments have been noted.
Other road improvements	1	There should be a dedicated left turn lane from Showground Road onto Victoria Avenue, as there is a lot of congestion at the intersection.	<p>Thank you for your suggestion. This is considered outside of the scope of the Showground Road and Carrington Road intersection upgrade proposal. There are currently no proposals to introduce a dedicated left turn from Showground Road onto Victoria Avenue at this time.</p> <p>Any future proposals in this area would be communicated to the community should there be a change to the current situation.</p>
	1	Windsor Road needs to be resurfaced.	This is considered to be out of scope for the proposed intersection upgrade on Showground Road and Carrington

			Road, Castle Hill. Your comments have been noted.
		1	<p>A slip lane is needed for the intersection of Memorial Avenue and Windsor Road.</p> <p>Thank you for your suggestion, this is considered outside of the scope of the Showground Road and Carrington Road intersection upgrade proposal.</p> <p>Roads and Maritime has no current proposal to install a slip lane at the Memorial Avenue and Windsor Road intersection at this time.</p>
		1	<p>The intersection at Showground Road and Green Road intersection should be upgraded.</p> <p>Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Your comments have been noted. Roads and Maritime is currently developing proposed upgrades at these locations as part of a separate program of work.</p> <p>Roads and Maritime is also working with The Hills Shire Council to integrate the improvements proposed to Green Road (a local council road) with the proposed intersection upgrade of Showground Road and Victoria Street in Castle Hill which aim to ease congestion, improve road safety and network efficiency.</p>
		2	<p>Consider narrowing the median to provide space for cars to settle while waiting for the lights at Green Road and Victoria Road.</p> <p>Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Your comments have been noted. Roads and Maritime is currently developing proposed upgrades at this location as part of a separate program of work.</p> <p>Roads and Maritime is also working with The Hills Shire Council to integrate the improvements proposed to Green Road (a local council road) with the proposed intersection upgrade of Showground Road and Victoria Street in Castle Hill which aim to ease congestion, improve road safety and network efficiency.</p>
		1	<p>The intersection of Wrights Road and Windsor Road, Kellyville should be upgraded.</p> <p>Thank you for your suggestion. This is considered to be out of scope for this proposed intersection upgrade. Your comments have been noted. Roads and Maritime is currently developing proposed upgrades at this location as part of a separate program of work.</p>

			As part of a separate program, Roads and Maritime and The Hills Shire Council are developing a strategy to install traffic signals at the intersection of Windsor Road and Wrights Road. This work will be coordinated with the planned Memorial Avenue upgrade. More information can be found on the website: http://www.rms.nsw.gov.au/projects/sydney-west/kellyville-memorial-avenue-upgrade
		2	The intersection of Showground Road and Windsor Road should be upgraded. Thank you for your submission. As part of a separate program of work Roads and Maritime is currently developing proposals for the upgrade of the intersection of Showground Road and Windsor Road.
	Wider Showground Road upgrades	1	Showground Road upgrade is expensive and progress is slow. The current Showground Road upgrades between Carrington Road and Old Northern Road will help to reduce congestion and increase traffic capacity to meet predicted growth from future development in the area. The project includes a large amount of utility relocation and installation for future growth. This type of work takes time as most utilities are buried under the road reserve. We are currently on track to deliver this program in late 2018. More information and further project updates can be found on the website: http://www.rms.nsw.gov.au/projects/sydney-north/castle-hill-showground-road-upgrade/index.html
		3	Roads and Maritime Services should coordinate all Showground Road works. The project team is liaising with other (Roads and Maritime and Transport for NSW) project teams about their works near this proposed intersection upgrade to ensure a coordinated approach in delivery and with minimal effect on the community. Unfortunately, each project relies on government funding and therefore not all projects in the area are given funding at the same time. Roads and Maritime do try to coordinate projects to minimise the efforts on residents and motorists.

4.0 Changes to proposal / decision

After considering all community responses, council and other stakeholder feedback and with consideration of further design requirements needed to address some of this feedback and to align with the proposal's aims and requirements, we have decided to proceed with the proposed intersection improvements of Showground Road and Carrington Road, Castle Hill subject to the following changes to the original proposal:

- extending the scope of the proposal along Carrington Road from 180 metres to 240 metres up to the intersection tie-in with Middleton Avenue
- the proposed 'shared path' on the north side of Showground Road is now a 'widened footpath' to align with adjacent road works on Showground Road (to be dedicated as a shared path by council in the future if they chose to do so)
- extending the scope of the proposal to the north of Showground Road to provide for the necessary stormwater drainage works for the proposal
- inclusion of an additional alternative site compound site at Memorial Avenue in Kellyville (opposite Burns Road)
- inclusion of an additional alternative stockpile site at Hills Shire Pony Club at Gilbert Road in Castle Hill.

5.0 Recommendations

Roads and Maritime would like to thank everyone who took the time to consider our proposal and provide feedback.

Taking into consideration all the received feedback, we have decided to proceed with the proposal subject to the changes proposed in section 4.

6.0 Next steps/way forward

Roads and Maritime will proceed with the intersection improvements at the Showground Road and Carrington Road.

We will keep the community informed as we progress with this project.

Appendix

Appendix A Have Your Say Community Letter

Appendix B Community Feedback Distribution Map

Appendix A – Have Your Say community letter



June 2017

Have your say – Proposed improvements at the intersection of Showground Road and Carrington Road, Castle Hill

The NSW Government is funding this proposal as part of the Bus Priority Infrastructure Program, which aims to improve the reliability and efficiency of bus services, while easing congestion for all road users.

Roads and Maritime Services is inviting your feedback by **Thursday 29 June 2017** on proposed bus infrastructure improvements at the intersection of Showground Road and Carrington Road, Castle Hill.

The proposal will:

- improve the reliability of bus services and journey times through the intersection
- help ease congestion and improve travel times for all road users, particularly during peak periods
- improve pedestrian safety and the flow of traffic along Showground Road
- complement the road upgrades currently being carried out by Roads and Maritime on Showground Road, between Carrington Road and Old Northern Road, Castle Hill
- improve access to the proposed Showground Metro Station.

The proposal includes:

- widening the north side of Showground Road to provide two eastbound through lanes and two right turn lanes onto Carrington Road within the existing road corridor
- providing a westbound bus lane along Showground Road about 60 metres either side of Doran Drive
- providing a dedicated westbound left turn lane, buses excepted, on Showground Road for southbound access onto Carrington Road
- widening the west side of Carrington Road to provide two right turn lanes onto Showground Road eastbound, a new dedicated left turn lane onto Showground Road westbound with a new signalised pedestrian crossing, two southbound exit lanes, a new traffic island and upgraded signalised pedestrian crossings on Showground Road
- lane resurfacing and upgrading of pedestrian crossings
- providing a 2.5 metre wide shared footpath and cycleway along the northern side of Showground Road for the extent of the proposed roadworks
- relocating the northbound bus stop on Carrington Road for the proposed Showground Metro Station interchange
- removing some trees and some parking.

We have included a map to show the location of the proposal area.

Have your say

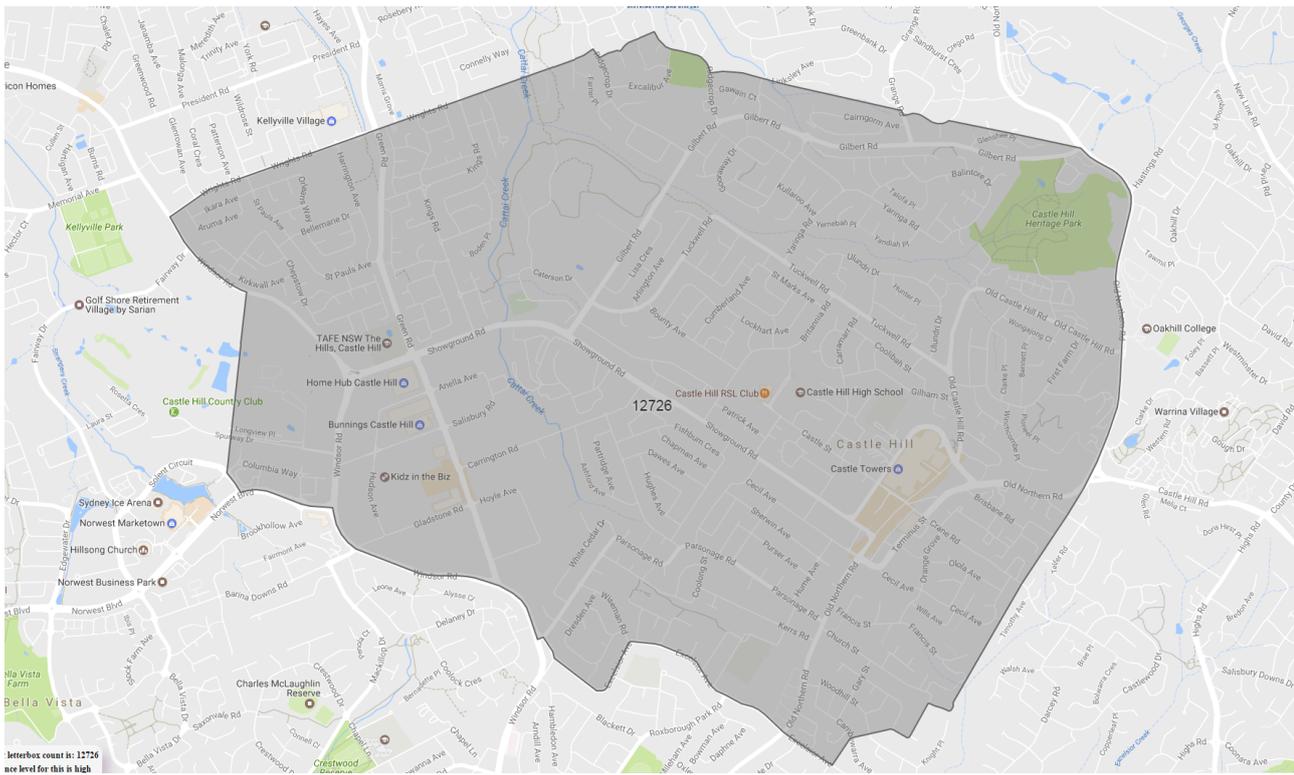
We invite your feedback by **Thursday 29 June 2017**. Email showgroundcarrington@rms.nsw.gov.au, write to Showground Road and Carrington Road, Roads and Maritime Services, PO Box 973, Parramatta, NSW, 2124 or call our Project Team, during business hours, on 1800 575 250.

Next steps

We will consider all feedback before deciding whether to proceed with this proposal. A community consultation report will be prepared summarising the matters raised. We will keep you updated as the proposal progresses.



Appendix B – Community Feedback Distribution Map



Note – darker shaded area shows extent of distribution