Notice of Requirement & Assessment of Environmental Effects Report

for the Minister of Education

for an Alteration of Designation under s181 of the RMA

Willowbank Primary School, 56 Middlefield Drive, Flatbush, Auckland

January 2022







Quality Control

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	under s181 of the RMA: Willowbank Primary School, 56 Middlefield			
	Drive, Flatbush, Auckland.			
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Signature	April.			

Limitations:

The report has been prepared for the Ministry of Education on behalf of the Minister of Education, according to their instructions, to support a Notice of Requirement to alter a designation under the Resource Management Act 1991. This report has been prepared on the basis of information provided by the Ministry of Education and technical reports provided by various specialist consultants. Incite has not independently verified the provided information and has relied upon it being accurate and sufficient for use by Incite in preparing the report. Incite accepts no responsibility for errors or omissions in the provided information.

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Overview

Requiring authority:	The Minister of Education
Territorial authority:	Auckland Council
Nature of notice:	To enable the school roll to exceed the current roll cap set out in Special Condition 1 of Designation 5007 Willowbank Primary School and associated changes to the designation purpose and addition of special conditions to support this change.
Site address:	56 Middlefield Drive, Flatbush, Auckland.
Legal description:	Section 1 Survey Office Plan 69890 (Title ID 871531)
Landowner:	Her Majesty the Queen (the Crown)

Auckland Unitary Plan - Operative in Part:

Zones:

• Residential – Mixed Housing Suburban Zone

Precincts:

• Nil

Overlays:

• Nil

Controls:

• Macroinvertebrate Community Index - Urban

Designations:

- ID 5007 Educational Purposes primary school (years 0-8) and early childhood education (preschool), Minister of Education
- ID 1102 Protection of aeronautical functions obstacle limitation surfaces, Auckland International Airport Limited

Flood Plains and Overland Flow Paths

• Flood plain and overland flow paths apply to parts of the site

Additional consents: No other consents are being sought as part of this notice of requirement.



1.0 Introduction

The following document supports a Notice of Requirement (Notice) by the Minister of Education (the Minister), under s181 of the Resource Management Act 1991 (RMA) to alter the purpose and conditions of existing Designation 5007 in regard to Willowbank School at 56 Middlefield Drive, Flatbush. It includes an Assessment of Environmental Effects (AEE) Report.

In summary, the existing condition relating to a school student roll cap constrain the ability of the school to respond to growth and serve the schooling needs of the community. As explained later in this document, the roll cap condition was agreed as a pragmatic step to settle an appeal when the designation was originally confirmed in 2000 to enable the school to open in 2001. It is recorded in the Environment Court consent order that the Minister did not consider the condition necessary or appropriate and that the Minister reserved the right to lodge a requirement to alter the designation at the later date to allow the condition to be determined substantively at a hearing without compromising the establishment of the school. The Minister is now seeking removal of this condition to allow the school to respond to demand for schooling in the area. Additionally, the purpose will be altered to remove reference to an Early Childhood Education Centre (ECE) as it is not proposed to accommodate one on this site, and new special conditions in relation to transportation matters to assist with manging the effects of a larger student roll.

Section 171 of the RMA sets out the matters the territorial authority (Auckland Council) shall have regard to in considering this requirement for an alteration of designation and making its recommendation to the requiring authority. This report assesses the proposed designation conditions changes against the relevant parts of s171.

2.0 Site Description

The site is located at 56 Middlefield Drive, Flatbush, Auckland and is owned by the Crown for educational purposes. The extent of the site is shown in Figure 1 below. The site is legally described at Section 1 Survey Office Plan 69890 and is approximately 2.55ha in area.

Willowbank School is a typical primary school comprising:

- Buildings; including classrooms (32 existing teaching spaces), hall, library, gymnasium, specialist teaching areas, administration office space, staff workspace, caretaker's facilities, sick bay, etc;
- Outdoor play area, sports field, hardcourts, playground structures;
- Vehicular, pedestrian and cycle access and egress, parking space for staff, visitors and cycles, onsite student drop off/pick up bays, onsite bus parking;
- Landscaping, and;
- Infrastructure services including water, sewerage, stormwater, telecommunications and outdoor lighting.



An aerial photo showing the location and configuration of the school is shown in Figure 1 below. The site has frontage to Middlefield Drive on its western frontage and Gracechurch Drive on its southern frontage. Vehicle access is via Middlefield Drive with two vehicle crossings serving the car park and pick-up drop-off (PUDO) area. The PUDO area runs parallel to Middlefield Drive with the entrance also serving the car park generally adjacent to the northern site boundary, and the exit further south along the Middlefield Drive frontage. Pedestrian access is available from both Middlefield Drive and Gracechurch Drive.

There is a pedestrian crossing on Middlefield Drive immediately to the north of the northern school access and marked parallel car parks adjoining the school along Gracechurch Drive. The wider area is characterised by suburban residential development with immediately adjoining and opposite sites gently comprising houses with a kindergarten fronting Middlefield Drive immediately adjoining the site to the north.



Figure 1: Willowbank School Site Location and Boundaries

3.0 Background to Conditions

The Minister lodged a notice of requirement for the designation of a new school in early 2000. Following public notification and a Council hearing, a recommendation was made by the then Manukau City Council (later incorporated into Auckland Council) to confirm the decision subject to conditions. The Minister made a decision to confirm the decision subject to conditions on 28 June 2000. This was subsequently appealed to the Environment Court by one of the submitters on the notice of requirement who owned an occupied residential zoned land to the immediate east of the



school at 93 Gracechurch Drive (this land has since been subdivided into several lots, none of which are owned by that appellant).

To enable a quick resolution of the appeal to enable the school to meet a desired opening date of 2001 to meet student demand in the area, the Minister pragmatically agreed to settle the appeal by consent by adding a roll cap condition as follows:

The school will have a maximum roll of 540 pupils provided that the roll will not be able to exceed 540 pupils up to a maximum of 700 pupils for a period not exceeding three years.

It was well signalled in the Environment Court consent order confirming the designation, that the Minister did not agree that this condition was necessary or appropriate and reserved the right to seek deletion of the condition at a later date. In particular the consent order recorded:

- (iii) The parties agree that it is essential for the school to open at the beginning of 2001 in order to relieve pressure on existing educational facilities in the East Tamaki Corridor area of Manukau City in order to promote the ongoing provision of adequate educational facilities for children in that part of Manukau City.
- (iv) In the circumstances the parties have agreed that the designation should be confirmed at this stage subject to a condition imposing a restriction on the maximum roll in the form set out above. The parties understand that the condition is without prejudice to the Minister's view that it is unnecessary and inappropriate and that the Minister reserves the right to lodge with Manukau City Council after the designation has been confirmed a requirement to alter the designation through removal of the condition. That will allow the issue to be determined substantively at a hearing in the future without compromising the establishment of the school.

A copy of the consent order is attached in Appendix D. The roll cap was not part of the Manukau City Council recommendation to confirm the requirement or imposed by the Court.

School infrastructure has been progressively implemented since 2001 via a series of outline plans submitted under the designation. The last outline plan to add classroom space was processed by Manukau City Council in 2008 with the classroom opening in 2009. Council files do not indicate an enquiry into current roll for the last outline plan to add teaching spaces. Concurrently the surrounding residential catchment has grown significantly since 2001.

The school now has a classroom capacity issue to meet demand and has embarked on a master planning exercise to accommodate a roll of 900 students which exceeds the roll cap. In collating information to support the designation alteration it has also become apparent that the existing roll of approximately 800 students already exceeds the roll cap condition. Removal of the roll cap is necessary to regularise the existing roll and to enable growth as envisaged for the master plan. Whilst



removal of this condition was signalled back in 2000 as part of the appeal settlement, it has unfortunately not been followed through with to date and now requires urgent resolution.

Further, as with most designated schools in Auckland which number several hundred, at the time the school designations in the various legacy Council district plans were "rolled over" into the Auckland Unitary Plan following creation of Auckland Council, standard conditions were included in the Auckland Unitary Plan to provide more consistency across school designations. Accordingly, aside from the roll cap special condition, the standard conditions for schools designated in the Auckland Unitary Plan apply (see standard conditions in Appendix E). This includes a standard parking ratio condition for schools as follows:

3. On-Site Car Parking – Schools

Additional on-site car parking shall be provided at the rate of two carparks per new classroom or classroom equivalent, except where the council accepts, on the basis of a specifically commissioned parking study by an appropriately qualified engineer and/or transportation planner, that a lesser level is appropriate. For the avoidance of doubt, this condition shall only apply where there is a net increase in the number of classrooms or classroom equivalents.

In the short term (Stage 1 development) a net increase in 2 new classrooms is proposed to 34 classrooms. The long-term master plan provides for up to 38 classrooms (a net increase of six from existing) to meet future growth. This would require 76 car parks under the current condition. To meet this condition it will likely be necessary to include stacked car parks and use of PUDO spaces without compromising key amenity such as fields and outdoor recreation space. Whilst the designation condition in the Auckland Unitary Plan only applies to new (additional) classrooms, it appears that previous school establishment and subsequent growth has not provided all of the car parks required by the legacy designation condition for this site (Condition 13 of the legacy designation) which required the same car parking ratio of 2 car parks per classroom.

13. That parking areas and driveways be formed, drained, sealed and marked prior to the commencement of use of these parking areas. Parking spaces shall be provided at a rate of no less than two spaces per class room and shall be established prior to the commencement of the activity that they are designed to serve.

A bespoke parking condition for this school is proposed based on what parking can practically be provided as included on the master plan. The master plan currently shows 75 spaces, although this includes parallel parks in the PUDO area and a number of stacked spaces in the staff car park.

A new special condition is proposed to ensure the design of the car parking, PUDO area and pedestrian and cycle facilities including the detailed positioning of the pedestrian crossings on Middlefield Drive and Gracechurch Drive take proper account of the Transport Assessment prepared by Abley to support this notice of requirement and inform the school master plan, and to involve engagement with Auckland Transport, particularly as a relocation of pedestrian crossings will require Auckland Transport approval.



Whilst the school has a travel plan and is a TravelWise school, a new special condition is proposed to ensure this addresses relevant matters to this particular site and is properly reviewed and updated for each outline plan to increase classroom numbers to ensure it remains fit for purpose.

As an ECE is not proposed on this site and would be difficult to accommodate in association with the anticipated roll growth, the part of the designation purpose relating to an ECE will be removed.

4.0 The Minister's Objectives

The Minister is a requiring authority under section 166 of the RMA. The Minister has financial responsibility for state owned and funded schools, so may give the Council a notice of requirement for a designation or alteration of designation for such works.

The Education and Training Act 2020 mandates the Minister of Education to designate schools. Those elected to the Board of Trustees are legally responsible for the management of their school, in the same manner as applies to all other State schools.

The change to conditions is required to provide opportunities for students to undertake their studies as provided for under the Education and Training Act 2020. Accordingly, deleting the roll cap condition along with the addition of new site-specific conditions to assist with mitigating any adverse transport effects is reasonably necessary in achieving the objective of the Minster in providing state schooling for the school catchment area.



5.0 Alteration to Designation 5007 in the Auckland Unitary Plan

Willowbank school is an existing designation in the Auckland Unitary Plan (Designation 5007), as shown in Figure 2 below. No changes to the existing designation boundaries are proposed.

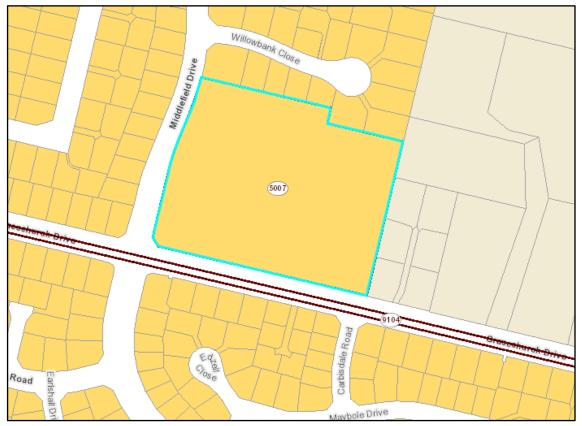


Figure 2: Willowbank School Designation Boundaries

The site is designated for the following purpose:

Educational purposes – primary school (years 0-8) and may include early childhood education (preschool)

The part of the purpose relating to the ECE will be removed to limit the purpose to a primary school.

The following changes to conditions are proposed:

The standard conditions for all Minister of Education designations apply to this designation, *except that where any standard condition conflicts with a site-specific condition below, the site-specific condition shall take precedence*.



1.—The school will have a maximum roll of 540 pupils provided hat the roll will be able to exceed 540 pupils up to a maximum of 700 pupils for a period not exceeding three years.

1. On-Site Car Parking – School

On-site car parking shall be provided at a rate of 2 car parks for every classroom or classroom equivalent, except where the Council accepts, on the basis of a specifically commissioned parking study by an appropriately qualified engineer and/or transportation planner, that a lesser level is appropriate. Car parking required by this condition shall include parallel car parking spaces in the pick-up and drop off area (PUDO), and any stacked car parks.

2. Transport Assessment

Any outline plan to increase the number of classrooms shall include a Transport Assessment prepared by a suitably qualified traffic engineer/transportation planner, which, taking into account the Transport Assessment prepared by Abley dated 12 November 2021, shall address safety, efficiency and the following specific matters:

- a) <u>the suitability of the design and location of car parking including the management</u> of any stacked parking,
- b) <u>the suitability of the design and location of loading facilities for rubbish trucks,</u> <u>deliveries and other service vehicles.</u>
- c) <u>the pick-up and drop-off area including any onsite changes and management</u> <u>approaches to improve safety.</u>
- d) <u>the access points including measures and treatments to manage conflict between</u> <u>pedestrians, cyclists, scooter users and vehicles</u>
- e) <u>pedestrian and cycle facilities, including the location of the pedestrian crossing on</u> <u>Middlefield Drive and Kea Crossing on Gracechurch Drive.</u>

The Transport Assessment shall be prepared in consultation with Auckland Transport and the outcome of that consultation recorded in the outline plan. Any necessary relocation and upgrading of pedestrian crossings, subject to the approval of Auckland Transport, shall be undertaken at the Requiring Authority's expense.

- 3. School Travel Plan
 - a) <u>The Requiring Authority shall either directly or through the School Board of</u> <u>Trustees, continue to have in place a School Travel Plan.</u>
 - b) <u>The purpose of the School Travel Plan is to provide specifically for measures to</u> <u>reduce vehicle dependence, including walking school buses, carpooling, the</u>



encouragement of the use of public transport, the use of remote pick up/drop off locations if appropriate, and the encouragement of walking and cycling. The Travel Plan shall also address the management of pick up and drop off, and onsite parking. This Travel Plan shall also specifically address the following matters:

- *i.* <u>Safe access to the entry points to the school. Features such as Kea Crossings</u> <u>or Zebra Crossings should be specifically considered;</u>
- *ii.* <u>Consistency with or use of Auckland Transport's TravelWise programme, or</u> <u>any equivalent programme adopted;</u>
- *iii.* <u>Measures to separate vehicle entry and pedestrian/cyclist entries;</u>
- iv. Location and provision on site of any scooter and cycle parking required;
- v. <u>Measures to discourage parking over private driveways at adjacent sites in</u> <u>Gracechurch Street and Middlefield Drive;</u>
- vi. Measures to manage the safe operation of pick up and drop off; and
- vii. <u>Measures to manage the operation of any stacked parking onsite so that it is</u> <u>used effectively.</u>
- c) <u>The School Travel Plan shall be reviewed and updated as necessary by a suitably</u> <u>qualitied and experienced transportation planner at the time of submitting each</u> <u>subsequent Outline Plan of Works relating to increased teaching spaces.</u>

6.0 Statutory Assessment

The following section provides a statutory assessment of the proposal in accordance with the RMA. The statutory documents assessed include:

- RMA;
- National Policy Statement on Urban Development 2020; and
- Auckland Unitary Plan (operative in part).

6.1 Resource Management Act 1991

The RMA provides for the use and development of New Zealand's natural and physical resources through:

- Part 2, which establishes the purpose and principles applying to resource consents and designations;
- Section 181, which enables a requiring authority to lodge a notice of requirement with the relevant territorial authority to alter a designation; and



• Section 171, which subject to Part 2, prescribes the matters to which particular regard must be had in considering the effects on the environment of allowing the requirement.

The following sections of the RMA are most relevant to this notice.

Section 5 – Purpose

The purpose of the RMA is to promote the sustainable management of natural and physical resources. Sustainable management is defined in section 5(2) as:

... managing the use, development, and protection of natural and physical resources in a way, or at a rate, which enables people and communities to provide for their social, economic, and cultural wellbeing and for their health and safety while:

- (a) Sustaining the potential of natural and physical resources (excluding minerals) to meet the reasonably foreseeable needs of future generations; and
- (b) Safeguarding the life-supporting capacity of air, water, soil, and ecosystems; and
- (c) Avoiding, remedying, or mitigating any adverse effects of activities on the environment.

The proposed conditions changes are consistent with the principles of Part 2 of the RMA as they enable the community to provide for their social, cultural and economic well-being by providing necessary community infrastructure to service the projected demand for school education in the area. The site is currently constrained by a condition that limits the ability for the Minister to provide necessary school capacity in the area to meet the demand for school capacity. The actual and potential effects of the proposal including transport effects are evaluated later in this report and the supporting Transportation Assessment in Appendix C and will be able to be avoided, remedied or mitigated.

Section 6 – Matters of National Importance

Section 6(e) requires the certain matters of national importance to be recognised and provided for. There are no matters of importance relevant to this alteration of designation proposal.

Section 7 – Other Matters

This section lists certain matters to which particular regard is to be had in making resource management decisions. The relevant matters are as follows:

- (b) The efficient use and development of natural and physical resources;
- (c) The maintenance and enhancement of amenity values;
- (f) Maintenance and enhancement of the quality of the environment;

Removal of the roll cap and changes to special conditions allow for more efficient use of the existing school to which significant investment has been made over the past 20 years to enable demand for schooling in the area to be met. The Transport Assessment in Appendix C confirms that the removal of the roll cap and further expansion of the school which has conservatively assessed the roll at at 1000 students to allow for some growth above the current master plan roll of 900 is acceptable from a transport perspective. It is acknowledged that there will be some impact on local residents/road



users during pick up and drop off times as is the case with all schools in suburban areas. These effects will be mitigated to the extent practicable.

In regard to amenity values and the quality of the environment, the existing standard condition addressing height in relation to boundary from adjacent residential zoned sites will protect those sites from unreasonable dominance and shading for any future additional built form on the school site. As shown on the master plan, it is intended to retain open space areas in the form of fields and other hard and soft recreation spaces which will provide generous open space areas and be available for community recreational use outside of school hours. The existing noise condition will also be retained to protect the aural amenity of the area.

The master plan has sought to avoid any future buildings or parking encroaching into the landscaping buffers adjoining adjacent residential zoned sites.

The height in relation to boundary condition will ensure buildings do not result in unreasonable dominance or shading of adjacent sites. Potential future two-level classroom buildings to replace older classroom stock would be required to comply with the height in relation to boundary condition and would be of a general height anticipated in the current underlying Residential – Mixed Housing Suburban Zone..

Section 8 – Treaty of Waitangi

This section requires those exercising powers or functions under the RMA to take into account the principles of the Treaty of Waitangi. No Treaty issues have been identified that are relevant to the changes in condition proposed.

Section 181 – Notice of Requirement for Alteration of Designation

The Minister of Education is a Minister of the Crown. This notice has been lodged with the relevant territorial authority under section 181(1) of the RMA. The Minister is not seeking to undertake a minor alteration under s181(3).

Section 171 – Recommendation by the Territorial Authority

Under section 171, the territorial authority may recommend to the requiring authority one of the following:

- confirm the requirement
- modify the requirement
- impose conditions
- withdraw the requirement

This recommendation is based on matters the territorial authority is required to have particular regard to when considering a notice of requirement. The matters to be considered are set out in section 171(1) of the RMA and are as follows:



- (1) When considering a requirement and any submissions received, the territorial authority must, subject to Part 2, consider the effects on the environment of allowing the requirement, having particular regard to—
 - (a) Any relevant provisions of—
 - (i) a national policy statement,
 - (ii) a New Zealand coastal policy statement,
 - (iii) a regional policy statement, or proposed regional policy statement; and
 - (iv) a plan or a proposed plan; and
 - (b) Whether adequate consideration has been given to alternative sites, routes, or methods of undertaking work if—
 - *(i) the requiring authority does not have an interest in the land sufficient for undertaking the work; or*
 - (ii) it is likely that the work will have significant adverse effect on the environment; and
 - (c) Whether the work and designation are reasonably necessary for achieving the objectives of the requiring authority for which the designation is sought; and
 - (d) Any other matter the territorial authority considers reasonably necessary in order to make a recommendation on the requirement.

The proposal to alter the designation conditions applying to this site has taken into account the relevant statutory planning documents as listed above.

The requiring authority has an interest in the land which is used for educational purposes, and the work (change in conditions) is not likely to have significant adverse environmental effects over and above the effects of the existing school. Accordingly, it is not necessary to assess alternative sites, routes or methods.

The proposed changes to the designation conditions to enable additional school student capacity are considered reasonably necessary for the provision of educational services by the Minister. The Minister's objectives are outlined earlier within this report.

No relevant "other matters" in regard to s171(1)(d) have been identified.

Section 176A – Outline Plan

An outline plan of works is required for each stage of future development once the designation changes are confirmed¹, so that the territorial authority is able to understand in detail the nature of proposed physical works, and if necessary, request any changes prior to development. At this stage no detailed design work for site such as building layouts, changes to parking and PUDO arrangements or any changes to landscaping have been undertaken. Future development and outline plans for works will be guided by the Stage 1 development plan and school master plan as included in Appendix B.

¹ Other than as provided for in standard school designation condition 6 which sets out certain minor works that can be undertaken without an outline plan



6.2 National Policy Statement on Urban Development 2020

The proposal is consistent with the National Policy Statement on Urban Development 2020 (NPS-UD). The changes to the conditions will provide critical social infrastructure capacity to support urban development to occur in accordance with the AUP, which supports the outcomes envisaged by NPS-UD.

The NPS-UD also directs territorial authorities to remove certain provisions from district plans that have the effect of requiring minimum numbers on car parking². Whilst the car parking conditions on the designation are not district plan rules, making it clear in the condition that PUDO spaces and stacked parting can be included in the on-site parking requirement of 2 per additional classroom is consistent with the outcomes envisaged by the NPS-UD in providing sufficient development capacity within urban areas, noting that extensive requirements for on-site car parking can constrain the ability to provide for urban growth capacity and disincentivise travel demand management initiatives. Whilst it is appropriate to provide for some level of car parking on the school site to support a well-functioning urban environment, the level of car parking proposed is assessed as being appropriate in this instance. This is supported by the Transport Assessment in Appendix C.

6.3 Auckland Unitary Plan – Operative in Part (AUP)

The AUP fulfils a number of statutory planning functions including a regional policy statement, regional coastal plan, regional plan and district plan to guide development in the Auckland region.

The following provisions of the Regional Policy Statement are of particular relevance to the proposal.

Issues of regional significance

B2.1 Tāhuhu whakaruruhau ā-taone » Urban growth and form

Auckland's growing population increases demand for housing, employment, business, infrastructure, social facilities and services. Growth needs to be provided for in a way that does all of the following:

- (1) enhances the quality of life for individuals and communities;
- (2) supports integrated planning of land use, infrastructure and development;
- (3) optimises the efficient use of the existing urban area;
- (4) encourages the efficient use of existing social facilities and provides for new social facilities;
- (5) enables provision and use of infrastructure in a way that is efficient, effective and timely;
- (6) maintains and enhances the quality of the environment, both natural and built;
- (7) maintains opportunities for rural production; and
- (8) enables Mana Whenua to participate and their culture and values to be recognised and provided for.

B2.2.2 Urban Growth and Form Objectives

A quality compact urban form that enables all of the following:
 (a) a higher-quality urban environment;

² NPS-UD Policy 11(a) and Sub Part 5, 3.38 Car Parking



- (b) greater productivity and economic growth;
- (c) better use of existing infrastructure and efficient provision of new infrastructure;
- (d) improved and more effective public transport;
- (e) greater social and cultural vitality;
- (f) better maintenance of rural character and rural productivity; and
- (g) reduced adverse environmental effects.

B.2.8.1 Social Facilities Objectives

- 1) Social facilities that meet the needs of people and communities, including enabling them to provide for their social, economic and cultural well-being and their health and safety.
- 2) Social facilities located where they are accessible by an appropriate range of transport modes.
- *3) Reverse sensitivity effects between social facilities and neighbouring land uses are avoided, remedied or mitigated.*

B.2.8.2 Social Facilities Policies

- 1) Enable social facilities that are accessible to people of all ages and abilities to establish in appropriate locations as follows:
 - a) Small-scale social facilities are located within or close to their local communities
- *2)* Enable the provision of social facilities to meet the diverse demographic and cultural needs of people and communities.
- 3) Enable intensive use and development of existing and new social facility sites.
- 5) Enable the efficient and flexible use of social facilities by providing on the same site for:
 - a) Activities accessory to the primary function of the site; and
 - *b)* In appropriate locations, co-location of complementary residential and commercial activities.
- *6) Manage the transport effects of high trip-generating social facilities in an integrated manner.*

The explanation to the social facilities objectives and policies states that *Social Facilities* include facilities that provide for education. The proposal will enable further growth of an essential education facility to accommodate growth pressure in the area. The proposal specifically promotes Policy B2.8.2 (3) as it enables more intensive use of an existing social facility. Accommodating students in their local area will help manage travel demand by avoiding a need to travel to other schools in the wider area. The facility therefore promotes the social well-being of the community. It also promotes Objective B2.2.2 in regard to urban growth and form by supporting urban intensification and making more efficient use of existing infrastructure.

The site is located in the Residential – Mixed Housing Suburban Zone. Suburban residential areas are typical locations for schools throughout New Zealand. The Mixed Housing Suburban Zone includes a



suite of objectives and policies to enable intensification including multi-unit development whilst maintaining a suburban built character.

The zone policy framework seeks to enable a mix of housing choice compatible with the planned intensity of development for these zones along with consideration of on-site amenity for residents, provision of safe and attractive streets and public open spaces and restrictions on impervious areas to manage stormwater runoff. Whilst the zone is primarily designed to accommodate housing of differing densities, it includes an objective and policy that seeks to provide for non-residential activities that support social, economic and cultural wellbeing of the communities in which they are located while being in keeping with the scale and intensity of development anticipated in the zone and avoiding, remedying or mitigating adverse effects on residential amenity³.

In this instance, providing for further roll growth at this school is required to serve growth enabled by the Auckland Unitary Plan on a large site that enables any adverse effects to be mitigated on the amenity of surrounding residential areas. Modern school buildings include high quality architectural designs to address their interaction with the surrounding environment and public realm, consideration of crime prevention through environmental design (CPTED) principles, promotion of safe and easy access by all modes of transport, and environmental sustainability including water and energy conservation. This is embodied in the Ministry of Education's national design guidelines that are mandatory of school design projects⁴.

Accordingly, the proposal is assessed as being consistent with the relevant residential zone objectives and policies of the AUP.

The Objectives and Policies for Transportation are set out in Chapter E27. Key outcomes promoted include⁵:

- Managing adverse effects on the transport system;
- Parking and loading supports a compact urban form;
- Travel planning is promoted to managed adverse effects on the transport system;
- The number, location and type of parking spaces supports:
 - The safe, efficient and effective operation of the transport network;
 - The use of more sustainable transport options;
 - o The functional and operational requirements of activities;
 - The efficient use of land;
 - \circ $\;$ The recognition that different activities having different trip characteristics; and
 - The efficient use of on-street car parking.
- Provision of a minimum level of on-site car parking in recognition of the more limited alternatives to private vehicle travel for zones such as Residential Mixed Housing Suburban Zone)

³ See AUP H4.2(4), H4.3(9)

⁴ Designing Schools in New Zealand, Requirements and Guidelines – Ministry of Education, October 2015.

⁵ See AUP E27.2(1), (3), (4) and E27.3 (1), (3) and (8)



In this instance, removal of the roll cap encourages students to travel to a school in their local catchment area rather than travelling to a school at another location. This in combination with travel planning already undertaken at the school as part of the TravelWise Programme that supports travel demand management and a sustainable transport system. The amended on-site parking condition for this designation which clarifies that PUDO spaces and stacked parks can be included in the parking requirement recognises the practical development constraints on this site and provides for an appropriate supply of on-site car parking for this school. The on-site parking supply that would result from the proposed parking formula is supported by the Transport Assessment in Appendix C. The special condition in regard to provision of a transport assessment and engagement with Auckland Transport as part of future outline plans to increase classroom numbers will ensure appropriate design solutions consistent with or achieving equivalent outcomes to the Transport Assessment in Appendix C are implemented. A further condition to more formally require a travel plan is also proposed.

Whilst it is acknowledged that there will continue to be some impacts on the adjacent road network at peak times, the proposed conditions along with upgrades to the PUDO, on-site car parking and location of pedestrian crossings (subject to Auckland Transport approval) are designed to mitigate these to the extent practicable whilst providing for sufficient school capacity in the area. Accordingly, the changes to the conditions of the designation are considered to be consistent with the Transport objectives and policies of Chapter E27.

7.0 Assessment of Environmental Effects

7.1 Overview of Approach

A Transport Assessment prepared by Abley Limited and a master plan for future roll growth prepared by WSP is provided as supporting information for assessment the effects of the change in conditions.

As the school already exists, the assessment of effects focusses on changes enabled by the changes in conditions relating to accommodating more built form on the site, and the transport effects associated with enabling a higher student roll.

7.2 Visual and Amenity Effects

The site is subject to standard conditions that apply to most designated school sites in Auckland relating to height in relation to boundary controls from adjacent residential zoned sites and noise restrictions. Based on the master planning undertaken, it is anticipated that up to a further 6 classrooms could be added the site in the foreseeable future (net increase in classrooms). This may include removal of some older stock and replacement with new stock. Classroom blocks greater than 2-levels are not anticipated. Accordingly, the height of any future additional or replacement classrooms of blocks is expected to remain consistent with the expected height of built form in the



underlying zone (8-9m). Further, the existing height in relation to boundary designation condition will ensure the interface of the site with adjoining residential sites is appropriate managed.

The northern boundary of the site where it adjoins adjacent residential properties is generally well screened with mature vegetation. Vegetation is less dense along the eastern boundary. However the adjacent land sits higher which would reduce the apparent height of any building built on the school towards that part of the site. As discussed in Section 10 below, feedback received from adjacent residents to the east raised issues in regard to possible loss of outlook or overlooking from classrooms into private residential space. There is potential in the long term for existing classroom stock to be replaced with two-level school buildings in the future. These will remain subject to the existing height in relation to boundary control, and the indicative orientation shown in master plan Options 3a and 3b would minimise the profile of the buildings in relation to adjacent residential sites and building ends would not need to include windows to protect privacy of adjacent dwellings. The detailed design and location of any future classrooms including orientation to adjacent residential land can be considered in future outline plans.

Any future outline plans to add buildings to the site can consider whether any further landscaping is appropriate in the circumstances, depending on where new buildings are being constructed.

As shown in the master plan, the visual relief from built form that is provided by the playing fields and other open spaces will be retained.

Aural amenity will be protected by the standard school noise condition which will continue to apply.

7.3 Transport Effects

Removal of the roll cap and a bespoke car parking condition are required to ensure that the school can serve student demand in the area and to ensure the site is efficiently utilised within practical space constraints without unnecessarily over supplying on-site car parking.

The implication of unnecessarily constraining the roll of Willowbank School is that students will have to access schooling outside of their local area which in itself may have adverse effects on the transport system. The roll cap was an artificially imposed constraint on the school not based on any Council or Environment Court recommendation but rather as a pragmatic agreement to settle an appeal to open the school within a short timeframe to serve local student demand.

The school Stage 1 development and master plan has been developed in consultation with Abley to properly consider the future design of on-site car parking, the on-site PUDO and pedestrian connections to the site. Proposed special condition 2 will ensure these matters are appropriately considered in further school development to increase classroom numbers, and that this will be undertaken in consultation with Auckland Transport. Subject to Auckland Transport approval, it would be desirable as part of the next stage of classroom development to move the existing pedestrian crossing further south along Middlefield Drive and the Kea crossing further west along



Gracechurch. This can be undertaken at the requiring authority's cost if agreed by Auckland Transport.

A Transport Assessment prepared by Abley Limited is attached as Appendix C. The Transport Assessment reports on the existing and future transport and parking demands for school staff, visitors and student pick-up and drop off. The conclusions of the assessment are:

- The crash history on the surrounding streets does not indicate a road safety issue in the area.
- The school is well serviced by public transport.
- The future stages of expansion of the school will include 13 PUDO parking spaces.
- There is currently on-street parking capacity at school start and finish times, within a 200m walk to the school. The proposed PUDO spaces and the on-street parking capacity is considered to be sufficient to cater for the master plan school roll of 1000 students.
- The existing staff and visitor car park currently has some capacity. The additional car parking proposed as the school grows is considered appropriate.
- A customised condition of 1.75 car parks per two classrooms is considered appropriate for Willowbank School, including the use of stacked parking; and the PUDO parking spaces utilised by visitors outside school start and finish times.
- The stacked parking arrangement proposed at master plan Build is considered adequate and can be managed through the school office.
- Observation surveys did not raise any safety, operational or driver behaviour issues on the surrounding streets during the busy school pick up / drop off period, although feedback from adjacent residents is that they have issues with parking over private driveways along Gracechurch Drive.
- The intersections on Middlefield Drive were observed to operate at a good level of service.

Overall, the Transport Assessment concludes that removal of the school roll cap and the further expansion of the school roll, which has conservatively considered a roll of 1000 students is considered acceptable from a transport perspective.

As discussed in Section 10 below, adjacent residents to the east on Gracechurch Drive have advised that they currently have issues with people parking across their private driveways during peak pick up and drop off times. Relocation of the pedestrian Kea crossing to link with the path midway along Gracechurch Drive, along with improvements to the PUDO and pedestrian crossing location on Middlefield Drive are designed to provide improvements to the existing situation.

8.0 Additional Consents Required

In general, no further land-use consents will be required from the Auckland Council in terms of its District Council consent functions once the alteration to designation is confirmed. Any potential regional resource consents such as for bulk earthworks cannot be determined until detailed design for any further development of site has been undertaken. However, given the expected nature of



any future site works it is unlikely they would be required. Accordingly, no resource consents from Auckland Council under the Auckland Unitary Plan can be applied for at this stage and will be applied for if necessary in the future when a sufficient level of detail for resource consents is available. It is anticipated that this would occur concurrently with any outline plan submitted to the council under the designation.

9.0 Alternative Locations and Methods

As the conditions changes relate to providing increased student capacity on an existing school site, no alternative locations have been considered. The main alternative is retaining the status quo. Retaining the roll cap would restrict the student capacity of the school and require students in the local school catchment to travel to other schools. Retaining the standard school designation parking formula would unnecessarily impact on the school footprint to accommodate unnecessary on-site car parks and does not promote travel demand management.

Use of designation as a tool for providing for educational facilities for which the Minister has financial responsibility is the mechanism used widely by the Minister as part of a national strategy for establishing, maintaining and operating school sites. This is considered to be a more appropriate mechanism to provide for ongoing operational certainty for the school that seeking incremental resource consents to authorise further works on the site.

10.0 Consultation

A project information mail-out was sent to the rate payer addresses of adjacent properties including those along both sides of Willowbank Close and properties on the opposite side of Middlefield Drive and Gracechurch Drive.

At the time of finalising the notice of requirement, feedback had been received from three adjacent neighbours to the east of the school along Gracechurch Drive. Matters raised included:

- Impacts of future building location, height and outlook/privacy matters:
- Parking behaviour across private driveways along Gracechurch Drive and general traffic and pedestrian safety during pick up and drop off; and
- Any other restrictions proposed once the roll cap is removed.

The Ministry of Education provided further information including the master plan layouts, draft transport assessment and proposed special conditions, and had online calls with two of these parties who accepted an invitation to discuss concerns raised. Further changes were made to the proposed special conditions following these discussions. While it is not practical to remove all impacts from parent and caregiver driving and parking behaviour during pick up and drop off times, changes outlined in the Transport Assessment are designed to mitigate the effects of a larger student roll.



In association with opening a new path midway along the Gracechurch Drive frontage and relocating the existing Kea Crossing to a crossing aligned with this new path (subject to Auckland Transport approval), the project team also investigated with the school if the existing pedestrian path from Gracechurch Drive adjacent to residential properties could be closed. However, the school wishes to retain this path to provide more direct and distributed access points to classrooms.

One resident consulted with had residual concerns following further discussion over the potential effects of two-level classroom blocks on the part of the site near the eastern boundary and whether it would be more appropriate to plan for this on another part of the site. The team responsible for the master plan commented on the reasoning leading to the current master plan layouts as follows:

- The school is very short of green space (the school does not meet the Ministry's preferred minimum requirements)
- Building adjacent to the new proposed car park, would further reduce the green space.
- It is challenging to find a suitable location for a car park to serve future master plan growth and the location shown was the preferred given the existing site layout.
- Replacing relocatable teaching spaces is the most desired option when redevelopment /roll growth happens in the future.
- The master plan shows the buildings proposed in Option 3a/3b would meet the current planning rules (i.e. height in relation to boundary) and therefore should not unreasonably impact on adjacent properties.
- The use of two storey building are preferrable when developing schools with limited space, more efficient to build up than out. This could have already occurred under the existing designation for replacing existing classroom stock (up to the roll cap).
- Finally, though this is an approved master plan, further reviews will be undertaken, should school rolls increase to ensure effects on neighbours are reasonable. For example, building orientations and the location of windows can be considered.

The Notice of Requirement was initially lodged with Auckland Council in November 2021. However, following pre notification further information requests from Auckland Council and Auckland Transport in regard to transport matters, the Minister elected to revise the purpose and conditions, assessment of environmental effects and Transport Assessment, and resubmit the documentation rather than address this as supplementary analysis. Appendix D to the Transport Assessment outlines how each matter of further information requested was addressed. Auckland Transport also requested some changes to the proposed conditions. These changes have generally been adopted in the proposed conditions.

The Minister is seeking public notification of the notice of requirement which will provide further opportunity for the community to be involved in the planning process for the proposed changes.



11.0 Conclusion

The requiring authority has assessed the relevant matters as set out in s171(1) of the RMA and concludes that is appropriate for the alteration of designation conditions to be confirmed. The designation conditions changes will enable the continued delivery of essential community infrastructure to support population growth in the area and will support travel demand management measures by providing for the opportunity for students to attend schooling in their local area.

As the original notice of requirement for the designation was publicly notified and the roll cap condition followed an Environment Court settlement to dispense with an appeal, the Minister requests that this alteration of designation requirement be publicly notified.



Appendix A

Existing Special Designation Conditions

5007 Willowbank School

Designation Number	5007
Requiring Authority	Minister of Education
Location	56 Middlefield Drive, Manukau
Rollover Designation	Yes
Legacy Reference	Designation 275, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

Purpose

Educational purposes - primary school (years 0 - 8) and may include early childhood education (preschool).

Conditions

The standard conditions for all Minister of Education designations apply to this designation.

1. The school will have a maximum roll of 540 pupils provided that the roll will be able to exceed 540 pupils up to a maximum of 700 pupils for a period not exceeding three years.

Attachments

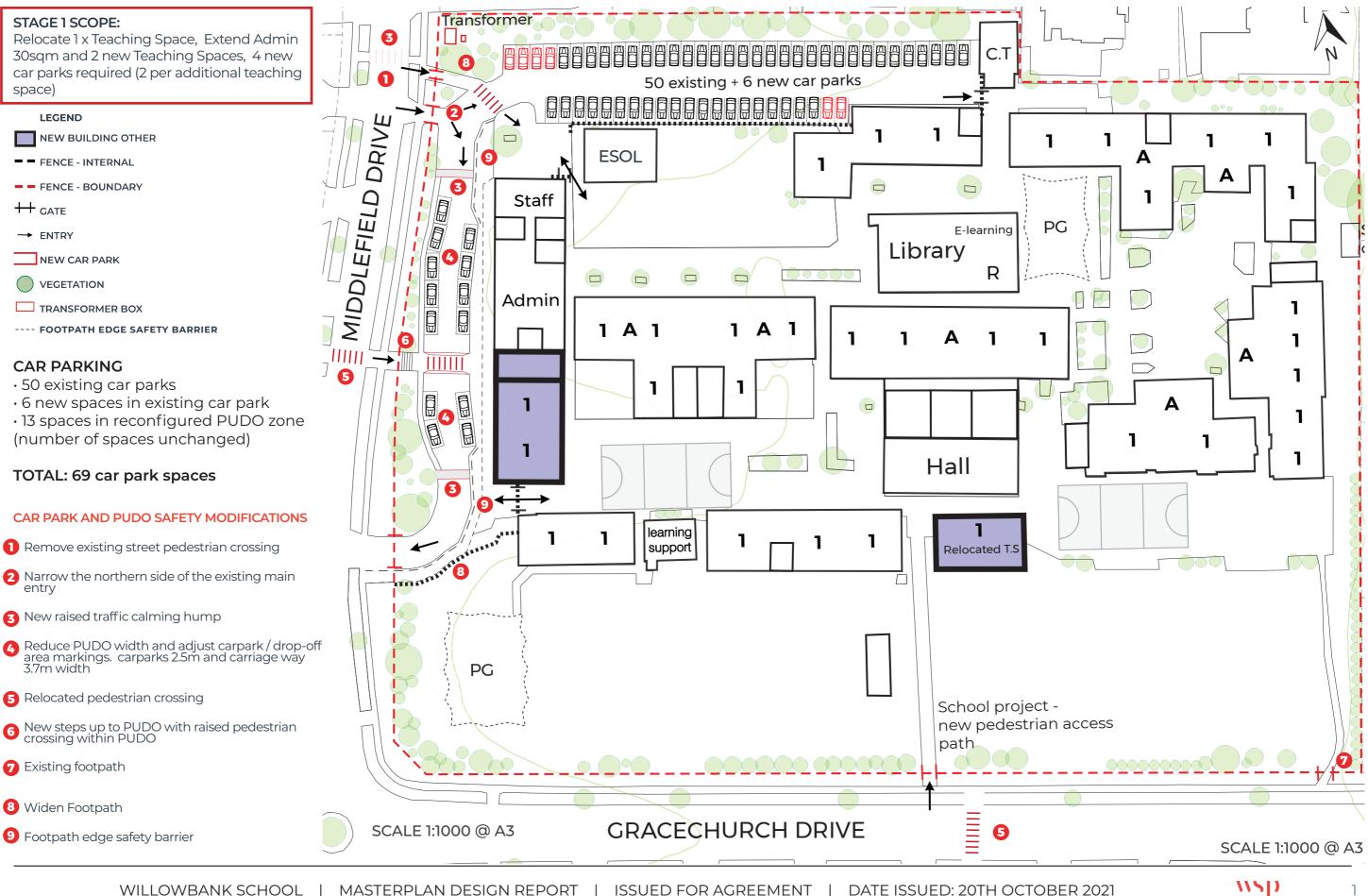
No attachments.



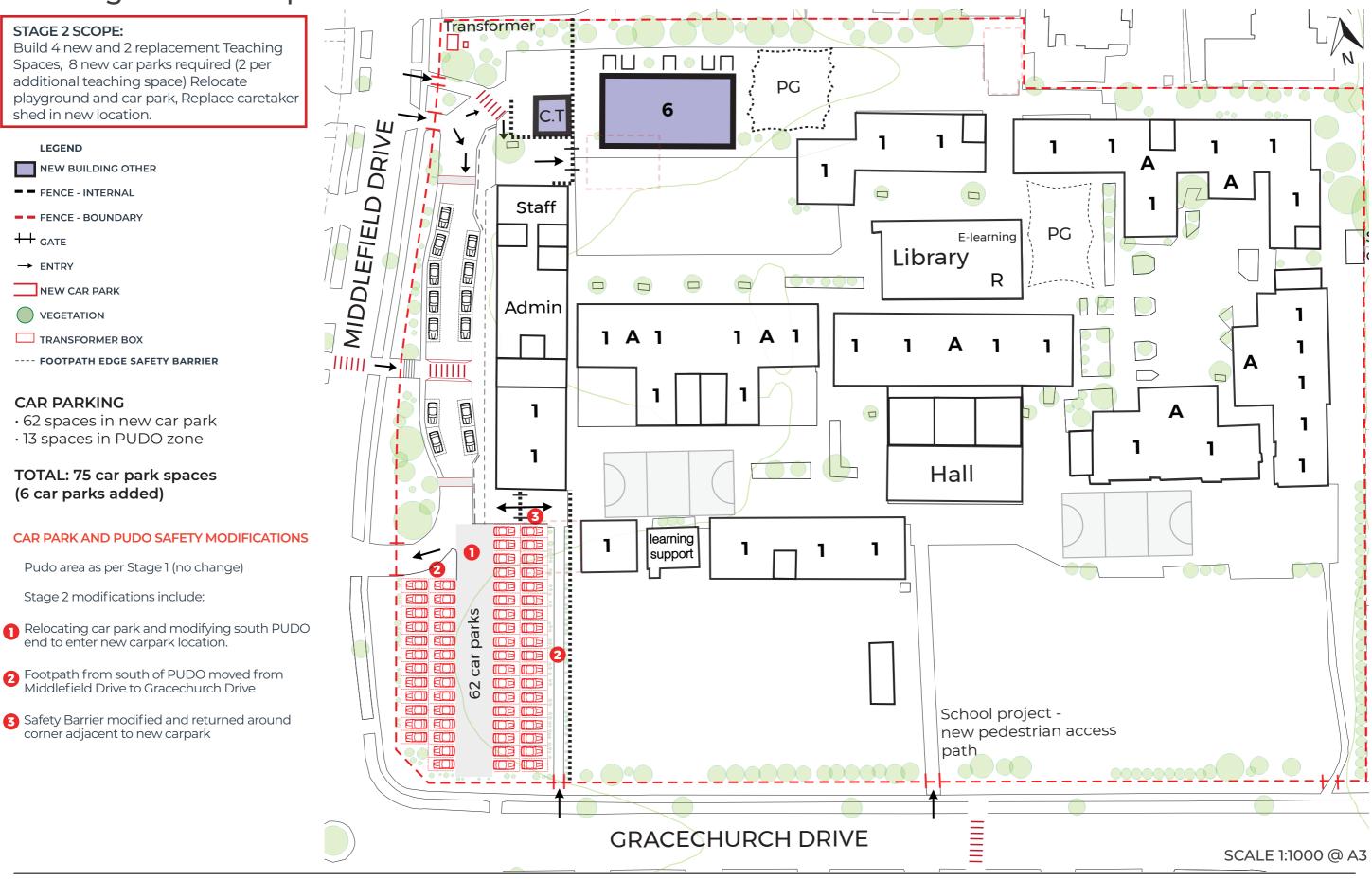
Appendix B

School Master Plan

Recommended Option Stage 1 - Build Roll



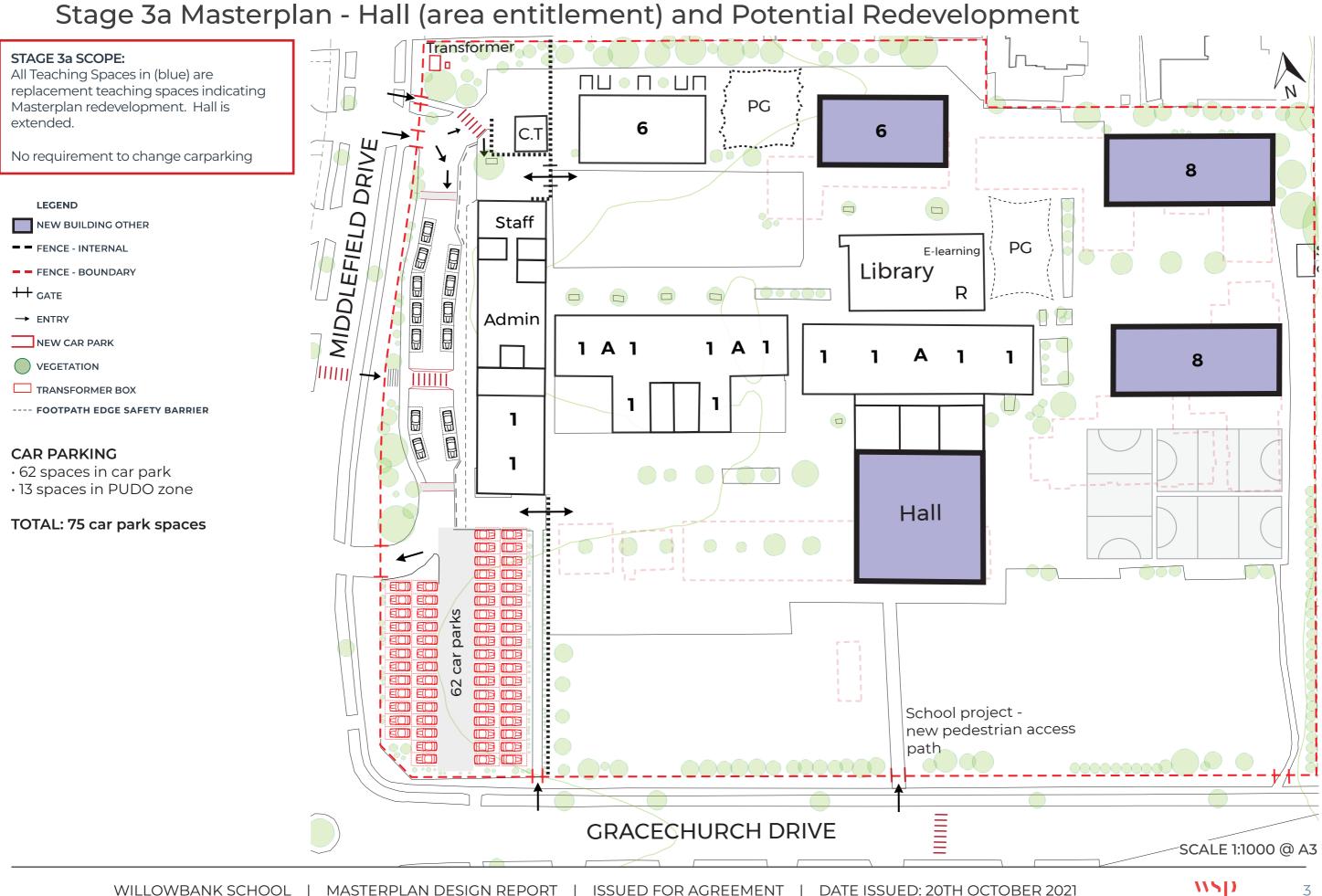
Recommended Option Stage 2 - Masterplan Roll



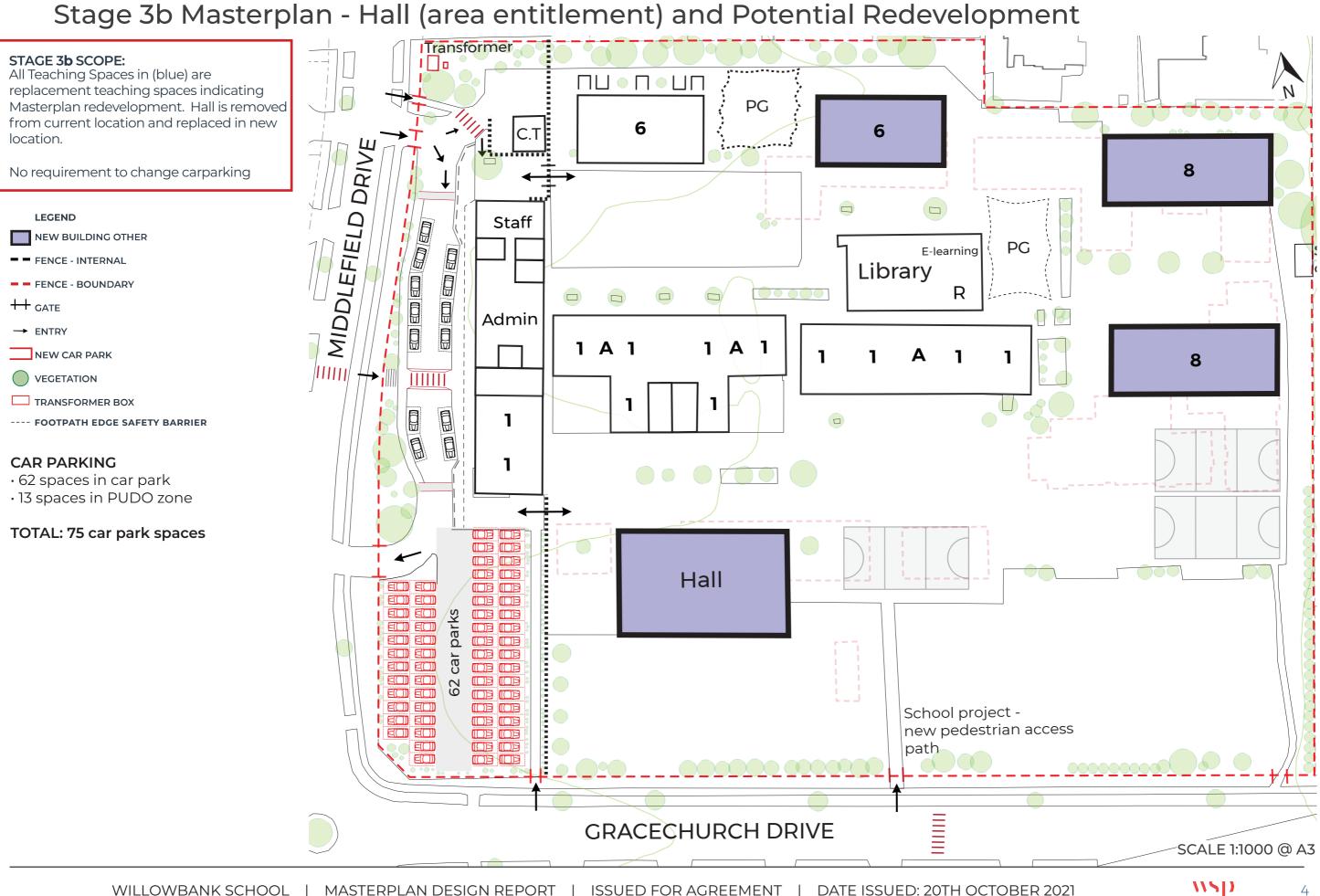
NSD

2

Recommended Option



Recommended Option





Appendix C

Transport Assessment



Willowbank School Transport Assessment

Ministry of Education



Willowbank School Transport Assessment Ministry of Education

Quality Assurance Information

Prepared for:	Lee Smith, Emma Howie - Ministry of Education
Job Number:	MED-J028
Prepared by:	Kate Brill, Principal Transportation Planner
Reviewed by:	Shane Ingley, Senior Transportation Engineer

Date issued	Status	Approved by
		Name
8 October 2021	Draft	Kate Brill
21 October 2021	Draft	Kate Brill
12 November 2021	Final	Kate Brill
10 January 2022	Revised with inclusions from AC/AT feedback	Kate Brill

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1. Introduction

Abley has been commissioned by Ministry of Education (MoE) to provide a transport assessment for the full masterplan build of the existing Willowbank School, located at 56 Middlefield Drive in Dannemora.

Willowbank School has a roll cap in the designation conditions to restrict the roll to 540 students, with the ability to expand up to 700 students for a maximum of three years. The school currently has a roll of over 800 students with a masterplan roll of 900 students. However, for the purpose of sensitivity testing and adopting a conservative approach, we have assumed a student roll of 1,000 students for the transport assessment.

The purpose of the Transport Assessment is to understand the transport issues currently facing the school and address the requirements needed to ensure the roll cap can be removed.



The location of the site is shown in **Figure 1.1** below.

Figure 1.1 Site Location

1.1 Consultation and Engagement

Engagement has been undertaken with Auckland Council (AC), Auckland Transport (AT) and the neighbouring properties adjacent to the school. A summary of the engagement with neighbouring properties is provided in Appendix C of this report.

Auckland Council and Auckland Transport requested further information in regard to the initial lodged notice of requirement documentation, as outlined in the table in Appendix D. Abley have revised the Transport Assessment report to incorporate the additional information. A response to the matters raised by AC and AT is provided in Appendix D.

Our Ref: Abley Willowbank School Transport Assessment Report Final Jan2022 CH Issue Date: 11 January 2022

2. Existing site

The existing school has 32 teaching spaces / classrooms. Willowbank School is a primary school catering for Years 0 - 6 with an existing student roll of just over 800 students. The school roll was 809 students when the parking surveys for this report were undertaken. It should be noted that the surveys were undertaken during Alert Level 1 when traffic levels were unlikely to be affected by Covid-19 restrictions.

2.1 Existing car parking

There are 63 parking spaces on the existing site spread across two parking areas, the staff car park at the northern end of the site and the pickup drop off area at the front (western boundary) of the school.

The staff car park, as shown in **Figure 2.1**, has a total of 50 parking spaces including two mobility parks. Entry to the staff car park is via an entry only access on Middlefield Drive, with an exit only onto Middlefield Drive at the southern access. The accesses are restricted to left in, left out only with No Right Turns on both access points at school start and finish times (8.30-9.30am and 2.30-3.30pm).



Figure 2.1 Staff car park

The car park at the front of the school, along the western boundary of the site, shares the same accesses as the staff car park off Middlefield Drive, as shown on Figure 2.2. The front car park has a total of 13 parking spaces which consist of 7 pick up/ drop off spaces, 4 staff parks, 1 visitor park and a further space used by the school minivan.



Figure 2.3 Front car park / PUDO area

At the time of writing this report, the school had chosen to close off the front car park to caregivers picking up and dropping off their children. The car park was initially closed off due to 2020 Covid-19 alert levels, however the school chose to not reopen the PUDO area for the following reasons:

• Some drivers would drive at speed through the PUDO car park causing a safety concern

Our Ref: Abley Willowbank School Transport Assessment Report Final Jan2022 CH



- Reports of aggressive behaviour from drivers
- Limited space for children to wait for pick up resulting in children spilling out into the parking / traffic lanes
- Caregivers arriving late to the school to pick up children, presumably due to the children being safely waiting within the school grounds. This puts extra pressure on teacher resource.
- A queue for the PUDO would sometimes form on Middlefield Drive. Through traffic would overtake on the pedestrian crossing to bypass the queue.

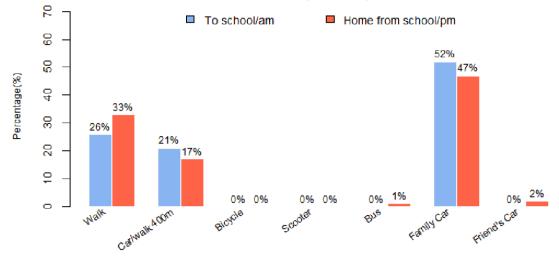
Design measures have been proposed for the PUDO area to help mitigate the current issues. These are discussed later in the report.

2.2 Travel Plan Results / Modal share

The students of Willowbank school currently undertake annual travel surveys as part of the Travelwise programme. Results from the 2020 travel survey were acquired from the school and summarised below. Staff are not included in the travel survey.

Figure 2.4 shows how students travelled to and from school in 2020. Approximately half the students travelled by family car with 52% arriving by car in the mornings and 47% in the afternoons. A further 19% of the students travelled to school by way of Park and Walk (Car/Walk) which is an initiative supported by the Travelwise programme which encourages caregivers to drop their children at a safe location at least 400m away from the school. This initiative reduces the number of cars outside the school gate and encourages walking even for a short distance.

Walking is a popular option at Willowbank with 26% walking to school and a significantly higher 33% walking home in the afternoons. Biking and scootering to school is very low with only one student recorded as biking to school. The number of students scootering to school however may be misrepresented in the survey and may have been counted as pedestrians. This is sometimes dependant on how the teacher asks the question within the classroom.



Willowbank School (Howick) Travel Modes

Figure 2.4 Travel Survey Results 2020

Vehicle access

The access points on Middlefield Drive have a width of 6 metres (northern access) and 5.2 metres (southern access). The crossings are relatively wide for one-way traffic flow.

The accesses are restricted to left in, left out movements only. No right turns are permitted into or out of either access point at school start and finish times (8.30-9.30am and 2.30-3.30pm). The introduction of the right turn bans was to prevent queues forming outside the school. The right turn bans are unlikely to present problems as the adjacent roundabouts on either side of the school frontage can facilitate turning movements.

Our Ref: Abley Willowbank School Transport Assessment Report Final Jan2022 CH

The southern access where vehicles are exiting the school site experiences good sight lines. The Road Traffic Standards Part 6 *Guidelines for visibility at driveways* (RTS 6) requires 40m of sight distance for a high-volume vehicle crossing with frontage onto a road with a speed limit of 50km/hr. Sight distance in excess of 40m is achieved from the southern access, in both directions. Sight lines for the northern access is not a consideration as it is entry only.

2.3 Loading

Delivery and waste collection vehicles currently access the school site via Middlefield Drive, with rubbish collection occurring in the main staff car park. It is understood deliveries utilise the PUDO area where vehicles enter and exit via Middlefield Drive.

The loading arrangement is likely to remain the same for Stage 1 of the school build where the car park arrangement will continue to operate as it does currently. This will be confirmed at Outline Plan of Works (OPW) stage as it is a detailed matter.

The future stages of school expansion (for the Masterplan build) are still to be finalised. Detail such as trucks manoeuvring on-site will be determined at OPW stage. However, it is expected that trucks will be able to manoeuvre on-site to ensure minimal reversing on-site and ability to exit the site in a forward direction.

2.4 Pedestrian access at the school gate

Pedestrians and cyclists access the school at three access points, indicated by yellow arrows in **Figure 2.5**. The two onstreet pedestrian crossings are circled in white. The pedestrian access points are described in more detail below:

Northern pedestrian access on Middlefield Drive

The pedestrian access at the north-west boundary of the site is off Middlefield Drive. There is a gate approximately 2m wide with the path widening further onsite to approximately 3m wide. There is a pedestrian zebra crossing on Middlefield Drive leading into this access, with a further crossing on-site to provide a safe crossing point across the vehicle lane into the staff car park.

Surveys showed high volumes of students use this access in both the mornings and afternoons, crossing at the patrolled zebra crossing on Middlefield Drive.

Southern pedestrian access on Middlefield Drive

The pedestrian access at the southern boundary of the site on Middlefield Drive is approximately 1.5m wide. There is a level difference between the footpath and the vehicle lane which provides some protection for pedestrians, however the internal path exits onto the vehicle crossing with no separation between pedestrians and vehicles. Very few students use this access.

Gracechurch Drive pedestrian access

There is an existing pedestrian path at the eastern boundary of the site, off Gracechurch Drive, which is positioned directly adjacent to the Kea Crossing on Gracechurch Drive which is patrolled in the mornings and afternoons. The path is approximately 1.3m wide and has steps at the northern end of the path leading down towards the school. A high volume of school students use this path in the mornings and afternoons.



Figure 2.5 Pedestrian access

2.5 Cycle Parking

There are currently approximately ten cycle stands at the school, with ample room to extend the cycle racks when demand grows.

The travel survey results indicate that there is a low uptake in cycling to school, with only one student recorded as cycling. It is understood that the school does not encourage students from Years 0-5 to cycle unless they are accompanied by an adult. The low cycle modal share should be taken into consideration when assessing requirement for future cycle racks.

2.6 Pedestrian/Cycle infrastructure on surrounding road network

The school zone extends approximately 1.5km north to south, and approximately 3km from west to east, as shown in **Figure 2.6**. There are two main arterial roads running north to south through the school zone, namely Chapel Road and Te Irirangi Road. Both of the arterial roads have safe crossing points for children residing in the eastern side of the school zone. Te Irirangi Road has a signalised pedestrian crossing at the northern end of the zone and a pedestrian overbridge at the southern end. Chapel Road also has signalised pedestrian crossing points at the northern and southern end of the zone.

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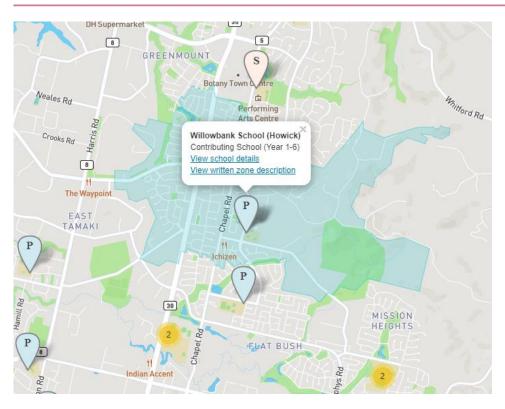


Figure 2.6 Willowbank School Zone

There are footpaths on the majority of the roads within the school zone, allowing for students to walk or scooter from all areas of the zone. The school frontage roads have safe crossing points with a zebra pedestrian crossing on Middlefield Drive and a Kea Crossing on Gracechurch Drive, both of which are patrolled at school start and finish times. The Middlefield Drive / Gracechurch Drive roundabout has pedestrian refuges in the traffic islands on all four legs, however crossing at the roundabout should not be necessary where the majority of the students can cross at the school patrolled crossing points.

On-road cycle lanes are provided on Chapel Road, however these are unprotected and not considered appropriate for school aged children. There are no cycle facilities on the local roads surrounding the school as they are generally low speed environments with low traffic volumes.

In summary, the infrastructure on the surrounding road network caters for students walking and scootering to school, with footpaths on both sides of the road and safe crossing points. There are no cycle facilities in the area, however cycling at primary schools (years 0-6) is generally not encouraged. The low rate of cycling at Willowbank School is not expected to be a result of the lack of cycle infrastructure, more likely due to cycling not an encouraged mode of transport for primary aged children.

2.7 Public Transport

The school site is well serviced by public transport. Chapel Road has frequent bus services that link Botany Bus Station with Manukau Transport Interchange, with bus stops around 300 metres from the school. There is also a bus route which passes the school (route 355) which travels between Botany and Manukau transport interchanges as seen in Figure 2.7.

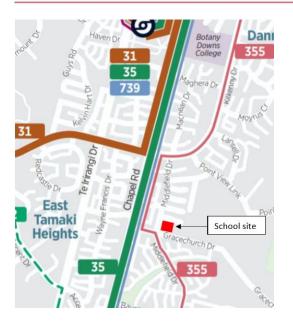


Figure 2.7 Public Transport Routes in vicinity to the school

2.8 Crash History

To understand the existing safety performance of the road network in the vicinity of the school, crashes that were recorded within the last five years (2016 – 2020 inclusive) were obtained through the Waka Kotahi Crash Analysis System (CAS) database. The extent of the crash search area is shown in **Figure 2.8**. A total of eight crashes were recorded, of which four crashes resulted in no injuries, three crashes resulted in minor injuries, and one crash resulted in a serious injury.

Four crashes occurred at the Gracechurch / Middlefield Drive roundabout with the cause of all four related to vehicles failing to give way to oncoming traffic. Two crashes involved adult cyclists, one a motorcycle and the remaining crash was between two vehicles.

The remaining four crashes each involved a vehicle travelling too far left and hitting a parked vehicle, with two occurences on Gracechurch Drive and two on Middlefield Drive. The only crash that occurred during school hours on a weekday was at 3.15pm where a northbound vehicle hit a parked car outside the school frontage. The accident is not considered to be related to the school as other crashes of a similar nature are recorded outside of school hours.

The crash history is relatively low and typical of the local road network in Auckland. The CAS report is provided in Appendix B.

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Figure 2.8 Crash Search Area

3. Drone Surveys

Video footage using a drone was used to collect parking, traffic and observational data on the streets surrounding the school, during school start and finish times. The following datasets were collected:

- Parking demand and capacity (on-site and on-street)
- Pedestrian demand at access points; and
- Capacity at nearby intersections;

3.1 Parking Surveys

On Tuesday 8 December 2020, video footage using a drone was undertaken to collect parking data on the surrounding streets of Willowbank School, during school start and finish times. The weather on the survey day was fine and dry.

Footage was taken at the times given below to capture school traffic at school start and finish times; with additional footage taken outside of the peak times for comparative purposes. The school bell for Willowbank School rings at 8.50am in the mornings and 3pm in the afternoons. Students are recommended to arrive between 8.30-8.45am for the 8.50 bell.

Video survey times:

Morning: 8:30 - 8:50am, then again at 9.15am for a comparative dataset.

Afternoon: 2:55 – 3:15pm, then again at 3.30pm for a comparative dataset.

3.2 Extent of School Parking (On-street)

Video surveys were taken during the peak school start and finish times, and then again outside of the peak times. The two datasets were analysed to understand which parking areas on the surrounding streets were affected by school traffic. The results differed for the morning and afternoon peaks.

The on-site Pick up Drop off (PUDO) zone was not open at time of the surveys, with all pick up and drop off of students occurring on-street. All on-street parking in vicinity of the school is unrestricted.

In the mornings, school traffic primarily relied on the on-street parking on Gracechurch Drive and Middlefield Drive with some spilling over onto the cul-de-sacs closest to the school, as seen in Figure 3.1. The parking zones are labelled A - E which correspond to the parking zones provided in the survey results in Appendix A.

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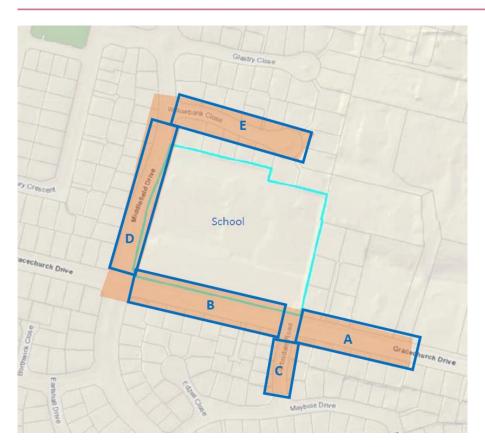


Figure 3.1 Extent of school traffic parking in mornings

The extent of the parking used by school traffic extends slightly further in the afternoons, as seen in Figure 3.2. The area extends to the Gracechurch Drive, west of Middlefield Drive, further north on Middlefield Drive and includes several culde-sacs. The parking zones are labelled A - J which correspond to the parking zones provided in the survey results in Appendix A.

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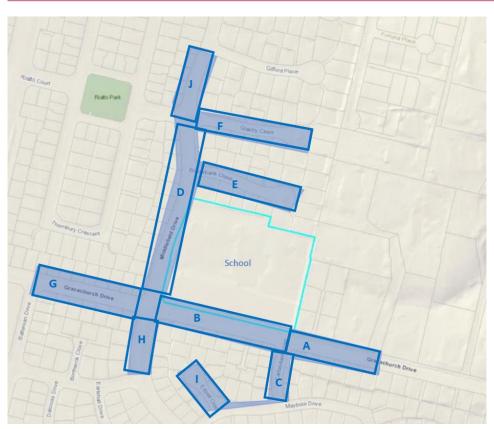


Figure 3.2 Extent of school traffic parking in afternoons

3.3 On-street Parking Occupancy

The extent of school parking in proximity to the school is limited to the local streets surrounding the school. The most highly utilised area is the 13 marked car parks on the northern side of Gracechurch Drive, along the school frontage. This effectively operates as a dedicated pick up and drop off zone for the school, with a safe route directly into the school with no need to cross any roads. The parking at this location appears to only be used by school traffic.

Parking Occupancy at school start time (Mornings)

Parking occupancy surveys were taken from 8.30am – 8.50am, with school starting at 8.50am. Students are encouraged to arrive to school from 8.30am.

On-street parking occupancy in the school morning peak averaged below 65% for the extent of the drop off period, as shown in **Figure 3.3**. Drop off occurred relatively consistently between 8.30 – 8.50am, with a busier period between 8.30-8.40am averaging between 52-63% occupancy.

For the purposes of comparison, parking occupancy was surveyed again at 9.15am on the same day, after school drop off had finished. During this time, the parking occupancy on the same streets represented during school peak averaged 29% parking occupancy. This is expected as school demand eases off.

Observation surveys indicated very few or no vehicles parking on no stopping lines or blocking driveways in the morning peak. There reflects the capacity available in the morning peak.

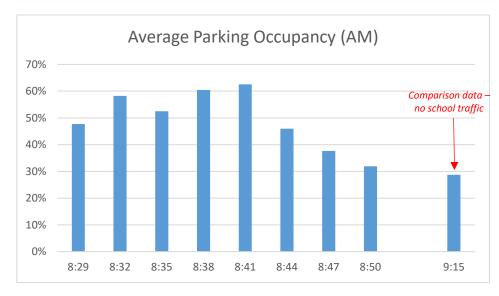


Figure 3.3 AM On-street Parking Occupancy

Parking Occupancy at school finish time (Afternoons)

Parking occupancy surveys were taken from 2.55pm – 3.15pm, with the school bell ringing at 3.00pm for all students.

Parking occupancy within 200 metres of the school in the afternoon peak averaged between 70-80% in the peak of the drop off period, as shown in Figure 3.4. The demand tapered off to under 50% occupancy around 7-10 minutes after the bell rang. Parking along the school frontage on both Gracechurch Drive and Middlefield Drive experienced 100% occupancy prior to the school bell at 3:00. However, there was capacity at the peak time slightly further afield on Middlefield Drive and Gracechurch Drive and on the surrounding cul-de-sacs, still within 200m of the school.

For the purposes of comparison, parking occupancy was surveyed again at 3.30pm on the same day, after school pick up had finished, with an average parking occupancy of 18%. This is expected as school demand eases off.

Observation surveys indicated a very small number of vehicles stopping on no stopping lines outside the school, mainly on Gracechurch Drive. When this occurred, it was a minor infringement with one or two vehicles on either end of the marked parking spaces. No safety concerns were observed.

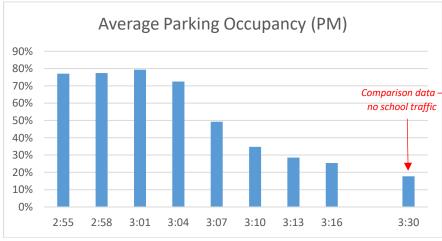


Figure 3.4 PM On-street Parking Occupancy

As expected, the survey results indicate that parking demand is relatively high in the afternoons, directly before the bell rings for the finish of school. However, there is just over 20% capacity, at the peak time, on the surrounding streets within 200m walk to the school.

3.4 Staff and Visitor Car Park Occupancy

The existing number of car parks provided for staff and visitors at the school is 63 parking spaces, 50 spaces in the main car park and 13 spaces in the PUDO area. As noted earlier, the PUDO was closed to pick up and drop off and had signage at the gate to this effect.

Current use of the staff / visitor car park at Willowbank School was surveyed in the morning and afternoon on Tuesday 8 December 2020. The parking occupancy is provided in Table 3.4.

Time	Number of car parks available	Parking Occupancy (%)
Morning (school start time)	7 car parks available out of a total of 63 car parks (50 in main car park and 13 in PUDO area)	89% full
Afternoon (school finish time)	18 car parks available out of a total of 63 car parks (50 in main car park and 13 in PUDO area)	71% full

Table 3.4: Parking occupancy for staff / visitor car park

The parking demand of the staff / visitor car park averaged at 80% occupancy, with 89% occupancy (7 car parks available) at its peak at school start time.

3.5 Intersection Performance

The key intersections affected by school traffic are the two roundabouts on Middlefield Drive, namely Middlefield Drive / Gracechurch Drive and Middlefield Drive / Glastry Close intersections.

The travel surveys results indicate that 52% travel by family car in the mornings and 47% in the afternoons. The school roll at time of the parking surveys undertaken for this report was 809 students. This equates to 300 vehicles in the mornings and 272 vehicles in the afternoons (assuming an average student occupancy of 1.4 students per car). For a student roll of 1,000 this would equate to 371 vehicles in the mornings and 336 in the afternoons. Therefore, the *additional* number of vehicles estimated to drive to school at the masterplan roll of 1,000 students will be 71 vehicles (142 trips) in the mornings and 64 (128 trips) in the afternoons. Not all of these vehicles will drive through the roundabouts on Middlefield Drive.

A survey of queue lengths was taken from the drone footage for the two roundabouts, with results provided below.

Middlefield Drive / Gracechurch Drive Intersection

The majority of school traffic travels via the Middlefield Drive / Gracechurch Drive roundabout. Queue length surveys and observations from the drone footage indicate that the roundabout operates at a good level of service in both the mornings and afternoons. Table 3.5 shows the average and the longest queue length for each of the approaches to the roundabout, in the morning and afternoon school peaks.



Table 3.5 Average and longest queue lengths (number of vehicles) at Middlefield Drive / Gracechurch Drive intersection

Approach	Middlefield Dr South	Middlefield Dr North	Gracechurch Dr West	Gracechurch Dr East
Morning				
Average queue length (no. of vehicles)	2.6	0.3	1.2	0.5
Longest queue length (no. of vehicles)	6	5	4	3
Afternoon				
Average queue length (no. of vehicles)	1.2	0.2	1.0	1.2
Longest queue length (no. of vehicles)	6	2	5	6

The highest average queue length occurs on the Middlefield Drive south approach, with an average queue of 2.6 vehicles in the morning peak. The average queue on all other approaches range between 0.2 - 1.2 vehicles, over both time periods. The longest queue length recorded 6 vehicles which occurred on the Middlefield Drive south approach in the mornings and on the Gracechurch Drive east approach in the afternoon peak.

The intersection is generally busier in the morning peak with maximum queues building up to 6 vehicles, which clear with minimal delay. This is often due to a queue of vehicles delayed by the pedestrian crossing on Middlefield Drive. The pedestrian crossing is patrolled by the school, so queues clear quickly which in turn clear the roundabout quickly with minimal delays. Although vehicles may move through the intersection at a slower pace in the mornings, there is no operational issues with very little delay. Additional traffic that may be generated by an increase in the school roll can comfortably be accommodated on the road network.

As mentioned above, the queues travelling northbound on Middlefield Drive are primarily a result of school children crossing the pedestrian crossing on Middlefield Drive. Relocating the crossing approximately 55m closer to the Middlefield Drive / Gracechurch Drive roundabout is likely to increase the frequency of vehicles queueing back across the roundabout, due to the reduction in stacking space on Middlefield Drive, south of the crossing. The relocated crossing will still allow for approximately 80m of stacking space for vehicles on Middlefield Drive, on the northern approach to the pedestrian crossing. If traffic does queue back through the roundabout, the delays are minimal as the traffic queue dissipates very quickly once the pedestrian crossing is clear. The crossing is patrolled by school staff, therefore allowing the ability to manage traffic queues and minimise delays to traffic. The transport effects of relocating the pedestrian crossing approximately 55m south are considered acceptable and provides a safer outcome to the existing location of the crossing.

Middlefield Drive / Glastry Close Intersection

Table 3.6 shows the average and the longest queue length for each of the approaches to the roundabout, in the morning and afternoon school peaks.

The highest average queue length occurs on the Rialto Close approach, with an average queue of 0.7 vehicles in the afternoon peak. The average queue on all other approaches range between 0 - 0.3 vehicles, over both time periods. The

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longest queue length recorded 3 vehicles which occurred on the Middlefield Drive south and Rialto Close approaches in the afternoon peak.

As can be seen from the queue length surveys, the Middlefield Drive / Glastry Close intersection operates very well with next to no delay or queues in both the mornings and afternoons. Additional traffic that may be generated by an increase in the school roll can easily be accommodated on the road network.

Table 3.6 Average and longest queue lengths (number of vehicles) at Middlefield Drive / Glastry Close intersection

Approach	Middlefield Dr South	Middlefield Dr North	Rialto Court	Glastry Close
Morning				
Average queue length (no. of vehicles)	0	0	0.2	0.1
Longest queue length (no. of vehicles)	0	0	2	1
Afternoon			1	<u>.</u>
Average queue length (no. of vehicles)	0.3	0.1	0.7	0
Longest queue length (no. of vehicles)	3	1	3	0

3.6 Pedestrian access points

Observation surveys show that there is roughly equal distribution of students using the northern pedestrian access on Middlefield Drive and the eastern pedestrian access on Gracechurch Drive. The southern pedestrian access on Middlefield Drive (alongside the exit of the PUDO area) has minimal usage.

4. Proposal

Willowbank School will be expanded in the future over two stages, the 'Stage 1 Build' and the 'Masterplan Build'. These stages are detailed below:

Stage 1 Build – this stage will include the addition of two classrooms, with a total of 34 classrooms, and a school roll of 850 students. This stage proposes 69 parking spaces (including PUDO parking).

Masterplan Build – this stage will include the addition of another four classrooms, with a total of 38 classrooms, and a school roll of 900 students (with a sensitivity test of 1000 students). This stage proposes 75 parking spaces (including PUDO parking). The majority of the staff car parks will be stacked in a tandem arrangement, as discussed later in the report.

4.1 Car Parking Supply

Stage 1 Build

Stage 1 of the expansion will include a total of 69 parking spaces, including 56 staff car parks and 13 PUDO / visitor car parks. The parking layout is shown in Figure 4.1 below. Visitors that arrive during school hours (outside of school start and finish times) can utilise the student PUDO area. Utilising the PUDO area for different users, at different times of the day, results in a more efficient use of land.

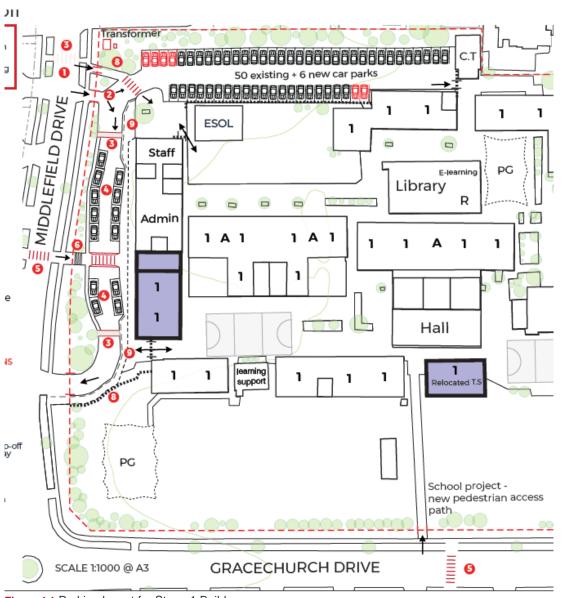


Figure 4.1 Parking layout for Stage 1 Build

Masterplan Build

The Masterplan Build will include a total of 75 parking spaces, including 62 staff car parks and 13 PUDO / visitor car parks. The parking layout is shown in Figure 4.2 below. Visitors that arrive during school hours (outside of school start and finish times) can utilise the student PUDO area. Utilising the PUDO area for different users, at different times of the day, results in a more efficient use of land.

The Masterplan stage of expansion will relocate the staff car park from the northern boundary to the south-western corner of the school. The majority of the car parks in the staff car park will be stacked in a tandem arrangement. The stacked parking arrangement can easily be managed well by the school as all staff and visitors enter and leave the school via the school office. It is recommended that all the parking spaces in the front row are assigned to staff only with no designated visitor parking in the front row. This will allow the school to effectively manage the stacked parking with a system for staff.

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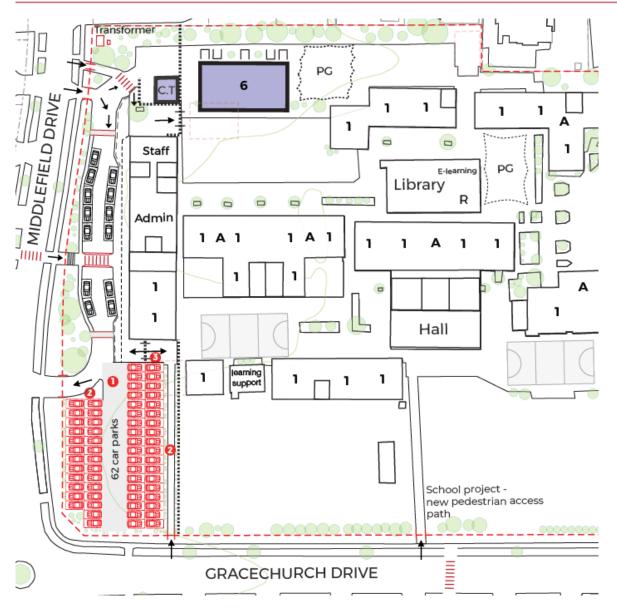


Figure 4.2 Parking Layout for Masterplan Build

4.2 PUDO Design

The school has concerns with the current design of the PUDO area for the reasons outlined in Section 2.1. The following design measures (refer to Figure 4.2) are proposed to mitigate the safety and operational concerns:

- The pedestrian crossing on Middlefield Drive is proposed to be shifted slightly to the south with the new position between the two access points of the school. This location will be more convenient to access the school for students coming from the north and south. The new location will also resolve the current safety issue where through traffic is overtaking queued vehicles on the pedestrian crossing. The new location of the pedestrian crossing is subject to consultation with Auckland Transport and other stakeholders.
- 2. Narrowing down the entry and exit of the PUDO will reduce the speed of vehicles travelling through the PUDO area and ensure a single lane of traffic only.
- Install a raised pedestrian crossing and two vertical speed humps throughout the PUDO area to further reduce speeds.
- 4. Widen the pedestrian entrance points into the school.

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- 5. Widen the footpaths on the eastern side of the PUDO area to allow increased waiting room for students. These widened footpaths propose to have barriers to ensure students have a safe waiting area without spilling out onto the roadway.
- 6. Signage instructing drivers not to leave their vehicles unattended (i.e. pick up and drop off only) or P2 (parking for 2 minutes only) at school start and finish times.

The design measures provided above have been developed in consultation with the Principal of Willowbank School and considered an improved outcome that address the existing concerns. Suitable design changes can be addressed in future Outline Plans required for school expansion.

4.3 Pedestrian Crossings (On-street)

The expansion of the school proposes changes to the two pedestrian crossings on Willowbank Drive and Gracechurch Drive.

Middlefield Drive

It is proposed that the existing zebra crossing on Willowbank Drive which is relocated approximately 55m south, for reasons provided in Section 4.2. It is recommended that the new zebra crossing on Willowbank Drive is constructed as a raised platform, however this will be subject to consultation with Auckland Transport.

The new crossing location will inevitably result in the removal of some on-street parking spaces on the western side of Middlefield Drive. However, the removal of the existing zebra crossing will be replaced by on-street parking, which will likely result in no loss of parking overall on Middlefield Drive.

Gracechurch Drive

A new pedestrian walkway is proposed through the school field and linking up with Gracechurch Drive, as shown on **Figure 2.5.** The existing Kea Crossing on Gracechurch Drive is proposed to be relocated approximately 80m further west to line up with the new accessible path. It is proposed that the relocated crossing will remain as a Kea Crossing which is adequate for use for a secondary access to the school. The type of crossing will be subject to consultation with Auckland Transport, who may wish to upgrade the crossing to a raised zebra crossing if considered beneficial to the wider community.

The new crossing location will inevitably necessitate the removal of some on-street parking spaces on both sides of Gracechurch Drive. However, the removal of the existing Kea Crossing will be replaced by on-street parking, which will likely result in no loss of parking overall on this block of Gracechurch Drive.

5. Parking Assessment

5.1 Staff and Visitor Parking

National Policy Statement – Urban Design

The National Policy Statement on Urban Development 2020 issued by the Ministry for the Environment in July 2020 includes a new policy (Policy 11) which removes a requirement for a minimum number of car parks for a particular development.

The purpose of Policy 11 is to enable greater supply and ensure planning is responsive to changes in demand, particularly in urban areas where there is good accessibility to public transport and alternative travel modes. It enables the space to be used for higher value purposes rather than car parking.

It should be noted that the change in policy does not affect the requirement for accessible car parks which remains as existing.

This parking review has taken guidance from the AUPOP, the existing modal share and accessibility to public transport to support a condition for a reduced parking requirement for the masterplan build. The proposed reduction in parking provision is considered to be consistent with the outcomes intended by Policy 11 in the NPS-UD.

Car parking Requirements as per Auckland Unitary Plan – Operative in Part.

The number of car parks recommended for the Stage 1 Build and the Masterplan Build has been assessed against the transport rules of the Auckland Unitary Plan (Operative in Part) Chapter K Designations for Ministry of Education. The parking guidance for primary schools in Chapter E27 have also been used for comparative purposes.

Chapter K – School Standard Designation Requirements

The standard designation conditions for the number of required car parks is stated below:

On-Site Car Parking – Schools: Additional on-site car parking shall be provided at the rate of two carparks per new classroom or classroom equivalent, except where the council accepts, on the basis of a specifically commissioned parking study by an appropriately qualified engineer and/or transportation planner, that a lesser level is appropriate. For the avoidance of doubt, this condition shall only apply where there is a net increase in the number of classrooms or classroom equivalents.

The existing school has 32 classrooms and propose to add a further 6 classrooms for the masterplan build. There are currently 56 parking spaces allocated to staff and visitors and 7 PUDO car parks. We understand that the original designation condition in the Manukau District Plan required 2 car parks per classroom and as such the current school configuration may not be meeting its current parking requirement.

The Stage 1 Build will accommodate 34 teaching spaces/classrooms. Referring to the above condition, two car parks per classroom results in a total of 68 carparks for staff and visitor parking.

The Masterplan Build will accommodate 38 teaching spaces/classrooms. Referring to the above condition, two car parks per classroom results in a total of 76 carparks for staff and visitor parking.

Alternatively, it could be calculated based on the existing number of car parks (56) for 32 classrooms, plus two carparks for each of the additional classrooms. This would result in a total of 60 parking spaces for Stage 1 Build and 68 parking spaces for the Masterplan Build. The school technically meets the on-site car parking condition however we have taken the more conservative approach of applying two car parks for each of the total number of classrooms, as the existing car parking provision is lower than the original parking requirement.

Chapter E27

For Primary School activities, E27.6.2.3 recommends a minimum parking provision of 0.5 carparks per FTE employee plus 1 visitor space per classroom. It is understood that the new school build will employ around 45 FTEs (based on a 1:20 staff-student ratio) and 34 classrooms for Stage 1 and 50 FTEs and 38 classrooms for the Masterplan. This results in a requirement for 57 parking spaces for Stage 1 Build and 63 parking spaces for the Masterplan build.

Stage	Recommended no. of car parks		Proposed no. of car parks		
	AUPOP Standard School Designation Condition (Chapter K)	AUPOP E27 (Table E27.6.2.3)	Total no. of on-site car parks	Staff / Visitor car parks	PUDO / Visitor car parks
Stage 1 Build	68	57	69	56	13
Masterplan Build	76	63	75	62	13

Table 5.1 shows the recommended and proposed car parking provision as per the AUP-OP.

 Table 5.1 AUPOP Parking Guidance vs proposed car parking numbers

As presented in **Table 5.1** the total number of parking spaces provided on-site for the Stage 1 Build (69 spaces) exceeds both of the AUPOP recommendations for number of car parks. For the Masterplan build, the proposed number of parking spaces (75) exceeds the E27 recommendation by 12 car parks and falls short by one car park for Standard Designation condition. The total number of car parks used for this assessment includes the PUDO spaces as the PUDO spaces will double up as visitor parks outside of the school start and finish times.

Accessible Parking

The AUP-OP refers to the NZS 4121-2001 standard which defines the following accessible parking requirements:

Total no. of car parks	Number of accessible parks
1-20	Not less than 1
21-50	Not less than 2
For every additional 50 car parks or part of a car park	Not less than 1

The activity proposes 75 parking spaces to service the school; therefore 3 mobility parking spaces are required. Two accessible parks are provided in the proposed car park for both stages of the school build. There is also the pick up drop off zone outside the front door of the school office that could be used by mobility users. The provision for accessible parks at the school is considered appropriate.

Assessment of Staff and Visitor Car Parking Provision

The total number of on-site car parks proposed for school staff and visitors, including the number of PUDO spaces for use by visitors, is 69 parking spaces for Stage 1 and 75 for the Masterplan build. The total number of car parks generally meet the designation condition of two car parks per classroom (with a shortfall of one parking space for the Masterplan build).

For the purpose of assessing the staff car park numbers only (without consideration of the PUDO/visitor parking spaces), there are 56 parking spaces as per the Stage 1 Build and 62 parking spaces as per the Masterplan Build. This is fewer than the AUPOP guidance specified in the standard conditions provided in Chapter K which recommends 68 and 76 car parks respectively. The number of car parks to be provided through the Masterplan development is considered appropriate for the reasons provided below.

 Thirteen car parks in addition to the staff car park are proposed at the front of the school as part of a Pick-up / Drop off (PUDO) area for school students. Visitors that arrive during school hours (outside of school start and finish times) can utilise the student PUDO area which is a preferred option as intuitively a visitor is more likely

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to park at the front of the school entrance. Utilising the PUDO area for different users, at different times of the day, results in a more efficient use of land.

- Surveys showed that there is some existing capacity within the staff car park with peak occupancy reaching 89% in the morning peak with seven available parking spaces. Towards the end of the school day, there were 18 car parks available, with an occupancy of 71%.
- Willowbank School is well positioned for staff to travel to/from school via public transport, with two key bus routes within 300 metres of the school.
- In the event of the carpark being at capacity, there is plenty of on-street car parking available on the surrounding streets to accommodate any overspill without any noticeable effect. Our parking surveys indicate there is ample (over 70%) capacity on the surrounding streets during school hours.
- Willowbank School is a Travelwise school which aims to reduce dependency on single use vehicle trips for staff as well as students. These measures support the need for a lower number of carparks required to service the site.
- A traffic assessment will be submitted with each stage of the Masterplan development in support of each outline plan of works and in accordance with the standard MOE designation carparking condition.

5.2 Student Pick Up / Drop Off Parking

Students travelling to school by car are either dropped off and walk independently into school, or alternatively park and are escorted into the school grounds. The latter tends to be more common for the younger students, say Years 0-2.

There is little research or data available on the flow rate for pick up drop off (PUDO) area for schools. Abley undertook surveys at two Auckland primary schools in 2019/2020 (Gladstone Primary School in Mt Albert and Silverdale Primary School) to understand how many vehicles can effectively utilise a PUDO during the school start and finish times. Survey results are included in Appendix A. Our findings were as follows:

- The average vehicle dwell time for drop offs in the morning was 39 seconds.
- The dwell time in the afternoons was unsurprisingly considerably longer with vehicles waiting approximately 5 minutes after school finish time before departing. However, vehicles continued to use the PUDO for 20 minutes after school finish time with shorter dwell times after the initial waiting period.
- The average number of students was 1.4 students per vehicle
- The drop off peak in the mornings was relatively consistent for the twenty minute period before school start time.
- A significant number of caregivers park their vehicle outside of the PUDO area to walk their child/ren to and from the classroom. This is more likely the case for the younger children that may need escorting to and from the classroom as many schools require the caregiver to collect younger children from the classroom.

PUDO Demand

There are two areas at Willowbank School where pick up and drop off of students can occur, namely:

- The on-site PUDO area at the front of the school with access off Middlefield Drive.
- The on-street PUDO area on the northern side of Gracechurch Drive, between Middlefield Drive and Carbisdale Road.

A number of assumptions have been made to ascertain the demand for PUDO spaces, some of which have been based on the previously mentioned school survey results, and are listed below:

- An average vehicle dwell time of 39 seconds, and a 20 minute drop-off peak in the mornings.
- An average number of students is 1.4 students per vehicle



- Approximately 30% of caregivers park their vehicle outside of the PUDO area to walk their child or children to and from the classroom. This is more likely the case for the younger children (Years 0-2) that may need escorting to and from the classroom.
- A car modal share of 50% (Willowbank School has an average car modal share of 49%)

AM Peak

With a dwell time of 39 seconds per vehicle and an average of 1.4 students per vehicle, this equates to 1 parking space catering for 2.3 students per minute. With a morning peak of 20 minutes this equates to 46 children per PUDO space. The assumption is made that the caregivers of Year 0-2 students park their vehicles and walk their child or children into the school grounds. The remaining say 70% of students (Years 3-6) are assumed to use the PUDO.

For a potential future roll of 1000 students and an adopted modal split of 50% vehicle use equates to approximately 500 students arriving by car. Assume approximately 70% (Years 3-6) will utilise the PUDO over a 20-minute period in the morning peak. By applying the factor of 46 children per PUDO space, this results in a **PUDO demand of 8 parking spaces in the AM Peak**.

For the purpose of sensitivity testing, we have tested the conservative scenario of all students using the PUDO rather than a proportion being escorted into the school. This scenario would result in a PUDO demand of 11 parking spaces in the AM Peak.

PM Peak

Demand in the afternoon peak when students are being picked up from school is more difficult to cater for as caregivers often park and either wait for their child/ren to walk out to the car or walk to the classroom to pick up their child/ren.

It is not considered practical to provide enough PUDO spaces to cater for the relatively high volumes of vehicles that require carparks for the 15 minute peak right on school finish time. There are more practical ways to manage this demand through the school travel plan, such as staggering pick up times over a 15-minute period; identifying park and walk locations in vicinity of the school; and on-street parking zones where caregivers and students organise a pick up location in advance. The surveys undertaken for this report show that the afternoon pick up currently operates within capacity on surrounding streets, within a 200m distance of the school. Therefore, such measures are not considered necessary for the Masterplan Build.

The school drop off time in the morning peak coincides with the network peak. It is therefore more pertinent to manage the transport effects on the road network during the busy morning peak. However, school finish time is less of a concern as there is considerably less traffic on the roads in the inter-peak.

The overspill of vehicles that cannot be accommodated in the PUDO area in the afternoon peak will need to utilise onstreet parking on the streets surrounding the school. There is ample on-street parking within a short walk of the school as detailed in Section 3.1.

Assessment of Pick Up Drop off Car Parking Provision

Both stages of the school proposal, Stage 1 Build and Masterplan Build, offer 13 on-site PUDO spaces at the school entrance. The proposed 13 spaces in the PUDO area are considered sufficient for the morning peak to operate safely and efficiently. The afternoon peak will likely need to utilise the on-street car parking spaces as overflow to the PUDO parking.

The parking surveys show that there is sufficient on-street parking availability within 200m of the school site at both school start and finish times. The surveys were undertaken when the school roll was just over 800 students. The onstreet parking availability was over 35% in the mornings and over 20% availability in the afternoons. There is also ample parking capacity on the surrounding streets more than 200m from the school site without the need for school traffic to impact on the arterial road network. It should be noted that the 13 proposed PUDO parks are in addition to the on-street capacity as the PUDO was not in operation during the parking surveys.

The additional 13 PUDO parking spaces will allow for a more efficient turnover of vehicles as opposed to on-street parks. Systems that allow for children to wait adjacent to the PUDO and go directly to the vehicle as it pulls into the PUDO will ensure a higher turnover of vehicles. The use of the PUDO also allows caregivers to arrive a few minutes after school

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finish time as the children will be safely waiting within school grounds. This allows for a greater distribution of school traffic through the afternoon peak.

The on-site PUDO and the parking capacity on the surrounding streets are considered adequate to operate efficiently and safely at the school roll anticipated for the Masterplan Build.

5.3 Cycle Parking

Cycle Parking – AUPOP Requirement

The requirement for bicycle parking in Table E27.6.2.5 of the AUPOP is provided below.

Visitor (short stay) cycle parking - The visitor (short stay) parking rate is 1 space plus 1 space per 400 students and FTE employees. The school is therefore required to provide 4 visitor cycle parks.

Long stay cycle parking - The secure (long stay) parking rate is 1 per 30 students in Year 1 to 5; plus 1 per 15 students in Year 6 plus 1 per 20 employees.

The school caters for Year 0 - 6 therefore it is assumed that 1 in 6 students will be in Year 6. For a proposed roll of 1000 students this results in a requirement for 42 secure cycle stands.

Overall a total provision of 46 cycle stands (short and long stay) would be needed to meet the recommendations of E27.6.2.5 of the AUPOP. However, there are no conditions in the Designation requiring a minimum number of cycle parks.

Cycle Parking Provision – Assessment

There are currently ten cycle stands at the school, with ample room to extend the cycle racks when demand grows.

The travel survey results indicate that there is a low uptake in cycling to school, with only one student recorded as cycling. It is understood that the school does not encourage students from Years 0-5 to cycle unless they are accompanied by an adult. It is recommended that the school continue to provide cycle racks if and when demand grows.

6. Conclusion

This Transport Assessment reports on the existing and future transport and parking demands for school staff, visitors and student pick-up and drop off. Our conclusions include:

- The crash history on the surrounding streets does not indicate a road safety issue in the area.
- The school is well serviced by public transport.
- The future stages of expansion of the school will include 13 Pick up Drop off (PUDO) parking spaces.
- There is currently on-street parking capacity at school start and finish times, within a 200 metre walk to the school. The proposed PUDO spaces and the on-street parking capacity is considered to be sufficient to cater for the Masterplan school roll of 1000 students.
- The existing staff and visitor car park currently has some capacity. The additional car parking proposed as the school grows is considered appropriate.
- The stacked parking arrangement proposed at Masterplan Build is considered adequate and can be managed through the school office.
- Observation surveys did not raise any safety or operational issues on the surrounding streets during the busy school pick up / drop off period.
- The intersections on Middlefield Drive were observed to operate at a good level of service.
- Design changes to the PUDO and the on-street pedestrian crossings as outlined in Section 4.2 are considered acceptable.

Overall, the removal of the school roll cap and the further expansion of the school to a masterplan roll of 1000 students is considered acceptable from a transport perspective.



Appendix A - Survey Results:

- 1. Parking Surveys Results
- 2. Queue Length Surveys at Intersections
- 3. PUDO Surveys (at other schools)



MORNING PARKING SURVEY RESULTS

MORNING - WILLO	WBANK SCHOOL P	ARKING SURVEYS - 8	/12/2020		
	Gracechurch East	Gracechurch PUDO	Carbisdale Rd	Middlefield Dr	Willowbank Close
Time	A	В	С	D	E
8:28	13	18	6	4	4
8:31	13	21	6	8	6
8:34	13	18	7	5	5
8:37	14	22	7	7	6
8:40	14	20	6	9	8
8:43	15	15	6	3	4
8:46	4	8	6	3	9
8:49	4	13	6	3	2
9:15	3	6	6	4	3

AFTERNOON PARKING SURVEY RESULTS

AFTERNOON - WILL	OWBANK SCHOOL	PARKING SURVEYS 8/	12/2020		
	Gracechurch East	Gracechurch PUDO	Carbisdale Rd	Middlefield Dr	Willowbank Close
Time	Α	В	С	D	E
2:55	22	28	9	14	15
2:58	22	28	10	14	14
3:01	22	28	10	14	16
3:04	22	25	9	14	12
3:07	13	14	6	10	7
3:10	3	10	5	6	6
3:13	3	6	6	5	6
3:16	3	5	6	6	2
3:30	2	3	6	1	4
	Glastry Close	Gracechurch West	Middlefield South	Edzell close	Middlefield north of Glastry
Time	F	G	H	1	I
2:55			0	5	7
2:58			0		
3:01			0		
3:04					
3:07		17	0		4
3:10					2
3:10			0		
3:15					
3:30			0		

QUEUE LENGTH SURVEYS - MIDDLEFIELD / GRACECHURCH ROUNDABOUT AM SCHOOL PEAK 8.30-8.50AM

	ET E/ (K 0.5		Middlefield North	Gracechurch West	Gracechurch East
	8:31	6	0	2	0
	8:33		0	3	1
	8:35	4	0	4	1
	8:33	3	0	0	1
					0
	8:38		0	0	0
	8:39	0	0	0	0
	8:40	0	1	4	0
	8:41	3	0	0	0
	8:42	2	5	0	0
	8:43	6	0	1	0
	8:43	6	0	3	0
	8:44	5	0	3	0
	8:44	0	0	0	0
	8:45	3	0	2	3
	8:46	4	0	0	0
	8:46	0	0	0	0
	8:47	2	0	1	3
	8:48	2	0	0	1
	8:50	0	0	0	0
Average qu	Jeue	2.6	0.3	1.2	0.5
Longest qu	eue	6	5	4	3

QUEUE LENGTH SURVEYS - MIDDLEFIELD / GLASTRY / RIALTO CLOSE ROUNDABOUT AM SCHOOL PEAK 8.30-8.50AM

	Middlefield South	Middlefield North	Rialto Court	Glastry Close
8:32	0	0	0	(
8:34	0	0	0	(
8:36	0	0	1	1
8:38	0	0	0	(
8:40	0	0	0	(
8:42	0	0	0	C
8:42	0	0	2	C
8:44	0	0	0	C
8:45	0	0	0	C
8:46	0	0	0	C
8:47	0	0	0	C
8:49	0	0	0	C
8:50	0	0	0	(

Average queue	0	0	0.2	0.1
Longest queue	0	0	2	1

QUEUE LENGTH SURVEYS - MIDDLEFIELD / GRACECHURCH ROUNDABOUT PM SCHOOL PEAK 2.55-3.12PM

	Middlefield South	Middlefield North	Gracechurch West	Gracechurch East
2:55	0	1	0	0
2:56	0	0	0	0
2:58	0	0	0	0
2:59	0	0	2	0
3:00	0	0	0	0
3:01	0	0	0	0
3:02	0	0	0	0
3:03	0	0	0	0
3:04		0	0	3
3:06		0	5	6
3:07		1	1	3
3:08		0	3	0
3:09		0	0	1
3:09		0	0	0
3:10	0	0	0	3
3:11		0	2	2
3:12	4	2	4	3
Average queue	1.2	0.2	1.0	1.2
Longest queue	6	2	5	6

QUEUE LENGTH SURVEYS - MIDDLEFIELD / GLASTRY / RIALTO CLOSE ROUNDABOUT PM SCHOOL PEAK 2.55-3.12PM

		Middlefield South	Middlefield North	Rialto Court	Glastry Close
	2:56	0	0	0	0
	2:58	0	0	0	0
	3:00	0	0	0	0
	3:02	0	0	0	0
	3:04	0	0	0	0
	3:06	0	0	0	0
	3:08	0	1	1	0
	3:09	3	0	3	0
	3:10	0	0	1	0
	3:12	0	0	2	0
Average qu	ueue	0.3	0.1	0.7	0
Longest qu	ieue	3	1	3	0

Gladstone Schoo	bl	Gladstone School	
Number of PUDO	D users	Number of PUDO use	ers
Thursday 19 Dec	ember 2019	Friday 6 March	
PM Peak		PM Peak	
before 3:00	6	before 3:00	7
3:00-3:05	8 PUDO full	3:00-3:05	3
3:05-3:10	12	3:05-3:10	4
3:10-3:15	7	3:10-3:15	3
3:15-3:20	0	3:15-3:20	5
Total	33	Total	22

Silverdale Prima	ary School	Silverdale Primary S	chool
Number of vehi	icles entering PUDO	Number of vehicles	entering PUDO
Monday 16 Ma	rch 2020	Monday 16 March 2	2020
AM Peak		PM Peak	
8.15-8.20	5	before 2:45	15 PUDO full
8.20-8.25	4	2:45-2:50	6 stacking through PUDO evident
8.25-8.30	19	2:50-2:55	10 stacking through PUDO evident
8:30-8:35	35	2:55-3:00	5 stacking through PUDO evident
8:35-8:40	20	3:00-3:05	2
8:40-8:45	23	3:05-3:10	14
8:45-8:50	3	3:10-3:15	0
		3:15-3:20	5
		3:20-3:25	2
Total vehs	110	Total	59

Gladstone School		Glads	stone School		
PUDO Dwell Time	(seconds)	PUDO	D Dwell Time (se	conds)	
Thursday 19 Dece	mber 2019	Frida	y 6 March		
AM Peak		AM P	Peak		
	15	21	28	90	
	45	59	38	16	
	82	35	30	12	
	54	14	20	18	
	24	37	55	18	
	32	35	90	20	
	26	76	34	31	
	12	12	18	55	
	57	60	73	50	
	54	44	15	12	
	25	54	25		
Average (secs)	39	Aver	age (secs)	37	
Total Average (see	cs) from both s	urveys		38	

Gladstone Sc	hool			
Number of st	uden	ts per vehicle		
Thursday 19	Decer	nber 2019		
AM Peak				
	1	2		
	1	1		
	1	2		
	1	1		
	1	2		
	2	1		
	1	2		
	1	2		
	1	2		
	2	2		
	1	1		
	2	1		
	2			
Average		1.4 student	s per vehicle	9

Appendix B Crash Analysis Report



Crash Analysis System (CAS) | NZTA

Untitled query 2/9/2021

Crash year 2016 - 2020 Saved sites Willowbank 2

Plain English report

8 results from your query. 1-8 of 8

| | | | | | | | | | | |

 | | | |
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 | | | Particular of
 | Consider | | |
|-------------------------------|---|--|-------------|-----------|-------------------|--------------|---------------------|---|--|--
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---|--|--|--
--|--|--|
| Side road | Eesture
D | Distance
from side
road freature | Direction A | Reference | Boute
position | Easting No | Nerthing Lo | Lencitude | Latitude | g | Date

 | Dayof
week | Time | Description of events | Crash factors
 | <u>Surface</u>
condition | <u>Natural</u>
licht | Weather
 | Junction | Control | count
fatal
 | count
count
serious | count
minor | |
| ROAD | σ | M06 | м | | | 177.0470 59 | 590695 | 174.914551 | නො බංල ඉදා | 201716096 | 30/07/2017

 | uns 1 | 21:20 | Car/Wagen1 WDB en
Gracechurch Drive hit parked
veh, Car/Wagen1 hit non specific
parked, Car/Wagen2 hit non
specific parked | CAR/WAGONL, a looked too far left
jirmit or test refused, too far left
 | Dry | Dark | Fine
 | Nil (Default) | Unknown | 0
 | 0 | 1 | |
| ROAD | र | | | | | 177 059 6 51 | 908965 | 74.915970 | 796942.96 | 20 184 7086 | 22/08/201

 | 8 Wed | 01:30 | Car/Wagen1 WDB en
GRACECHURCH ORIVE, FLAT
BUSH, AUCKLAND hit parked veh,
Car/Wagen1 hit non specific
lence, non specific parked | CAR/WAGON1, too far left
 | Wet | Dark | Light
rain
 | Nil (Default) | Unknown | •
 | 0 | 0 | |
| MI DDLEFIELD
DRIVE | | | | | | 177 039 2 59 | 1 908014 | | 962996.96 | 20 201 42494 |

 | 9
Ei | 52-61 | Bust WDB on G RACECHURCH
DRIVE hit Cyclist2 (Age 53)
crossing at right angle from right | BUS1, skohol testbelow limit,
did not check/notice another
party from other dim, failed to
give way at priority traffic control
 | Dy | Bright
sun | Fine
 | Roundabout | Give way | 0
 | • | -1 | |
| MIDDLEFIELD
DRIVE | | _ | | | | 1770391 59 | | | 722.040.96 | 2020171052 |

 | 0 Tue | 5V:45 | Car/Wagon1 WDB on
GRACECHURCH DRIVE hit
Cyclist2 (Age 46) crossing at right
angle from right | CYCLE2, stabiol lest below limit
CAR/WAGON1, stabiol test below
limit, failed to give way at priority
traffic control
 | Dry | Ov ercast | Fine
 | Roundabout | Give way | 0
 | • | 1 | |
| DRIVE | | | | | | 177 039 3 55 | 909014 1 | | -36.949 541 | 20142 0950 | 17/12/201

 | 8 Mon | 08:18 | Car/Wagon1 WDB an
GRACECHURCH DRWE hit
Mebrosoka2 crassing atright
angle from right | MOTORCYCLE2, alcohol
suspected CAR/WGON1, alcohol
suspected CAR/WGON1, alcohol
belowinni, ald not
check/notice another party from
other dir.n. failed to give way at
priority traffic control
 | Dry | Bright
sun | Fine
 | Roundabout | Give way | 0
 | 1 | • | 281 |
| GRACECHURCH
DRIVE | E. | | z | | | 5 6600771 | | | 068.8942.86 | 201639299 | 30/05/201

 | 6 Man | 15:15 | Car/Wagon1 NDBon
MIDDLEFIELD DRIVE hitparked
veh, Car/Wagon1 hitnon specific
parked | CAR/WAGON1, too far left
 | Wet | Ov ercast | Light
rain
 | Nil (Default) | Unknown | 0
 | • | 0 | D.02 |
| GRACECHURCH
DRIVE | a | | z | | | 1770389 59 | | | 36.949106 | 20 201 7645 1 |

 | 0 Sat | 16:45 | Left scene1 NDB on MIDDLEFIELD
DRIVE hit parked veh, Left scene1
hit parked (unstlended) vehicle | LEFT SCENE1, too far left
 | Dry | Overcast | Fine
 | Nil (Default) | Na Na | 0
 | • | 0 | |
| GRACECHURCH
DRIVE | | | | | | 1770374 5: | | | -36 949 482 | 20 181 01633 |

 | 8 Sat | 21 :71 | Car/Wagen1 ED Bon
GRACECHURCH DRIVE, EAST
TAMAKI HEIGHTS, AUCKLAND hit
Car/Wagen2 crossing atright
angle from right | CAR/WAGONL, failed to give way
at priority traffic control
 | Dry | Bright
sun | Fine
 | Roundabout | Give way | •
 | 0 | • | |
| 128 156 156 156 166 166 166 | AND EFIELD
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1990 г. – Средни и правила и пра | 0000 E 1770305 59006 05 104010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 40m E 1710396 590365 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 1 1 171039 590014 | 400 E 177036 500616 1741216 369950 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>dm E 171036 500616 1.441167 55.9657 2.147166 1 1 1 171036 500614 1.441166 55.9657 2011/05 1 1 1 1 171031 560614 1.441166 55.9651 2011/05 1 1 1 1 171031 560614 1.441166 2011/05 1 1 1 1.7033 560014 1.741166 2011/05 1 1 1 1.7033 560014 1.741166 2011/05 1 1 1 1.7033 560014 1.741166 2012/05 1 1 1.70367 560014 1.741167 26.94640 2013/05 201 0 1.741167 26.94640 2013/05 2013/05 201 1 1.741167 26.94640 26.94640 2013/05</td> <td>dm E 17036 59065 149156 350657 241756 2(147166 1 1 1 17035 590616 149156 359657 201105 7(101200 1 1 1 17035 590614 174516 35.9657 201105 7(11200 1 1 1 17035 590614 1745166 35.9657 2011052 7(11200 1 1 1 17035 590614 1745166 35.96576 7(11200 7(11200 1 1 1 17035 590614 1745166 7(11200 7(11201 7(11200 7(1</td> <td>dm E 17036 50636 145156 5.46547 2.147706 7.04700 6 1 1 1 1 17032 5.0004 1743156 5.46547 7.017706 7.017200 7.01 1 1 1 17032 5.0004 1743156 5.46547 2.3017050 7.01/1200 7.01 1 1 1 177031 5.0004 1743156 5.46547 2.3017105 7.01/1200 7.01 1 1 1 177031 5.0004 1743156 5.46547 2.011705 7.011700 7.01 1 1 1 177033 5.0004 1743156 5.496547 5.011705 7.117203 7.011705 7.11220 7.11220 7.11220 7.11220 7.11220 7.112203 7.11220 7.11220 7.112203 7.11220 7.112203 7.11220 7.112203 7.112203 5.964547 7.112203 7.112203 7.112203 7.11212 7.11212 7.11212 7.11212</td> <td>dbn E 177036 590616 14.41970 35.9697 2144700 64 0.10 1</td> <td>Model E Control Contro Control Control</td> <td>Model E Control State S</td> <td>No. No. No.<td>Image: second second</td><td>Image: service service</td><td>Image: Second second</td><td>of the constraint of the</td><td>e. Model e. Model Mo</td><td>Image: Second second</td></td> | dm E 171036 500616 1.441167 55.9657 2.147166 1 1 1 171036 500614 1.441166 55.9657 2011/05 1 1 1 1 171031 560614 1.441166 55.9651 2011/05 1 1 1 1 171031 560614 1.441166 2011/05 1 1 1 1.7033 560014 1.741166 2011/05 1 1 1 1.7033 560014 1.741166 2011/05 1 1 1 1.7033 560014 1.741166 2012/05 1 1 1.70367 560014 1.741167 26.94640 2013/05 201 0 1.741167 26.94640 2013/05 2013/05 201 1 1.741167 26.94640 26.94640 2013/05 | dm E 17036 59065 149156 350657 241756 2(147166 1 1 1 17035 590616 149156 359657 201105 7(101200 1 1 1 17035 590614 174516 35.9657 201105 7(11200 1 1 1 17035 590614 1745166 35.9657 2011052 7(11200 1 1 1 17035 590614 1745166 35.96576 7(11200 7(11200 1 1 1 17035 590614 1745166 7(11200 7(11201 7(11200 7(1 | dm E 17036 50636 145156 5.46547 2.147706 7.04700 6 1 1 1 1 17032 5.0004 1743156 5.46547 7.017706 7.017200 7.01 1 1 1 17032 5.0004 1743156 5.46547 2.3017050 7.01/1200 7.01 1 1 1 177031 5.0004 1743156 5.46547 2.3017105 7.01/1200 7.01 1 1 1 177031 5.0004 1743156 5.46547 2.011705 7.011700 7.01 1 1 1 177033 5.0004 1743156 5.496547 5.011705 7.117203 7.011705 7.11220 7.11220 7.11220 7.11220 7.11220 7.112203 7.11220 7.11220 7.112203 7.11220 7.112203 7.11220 7.112203 7.112203 5.964547 7.112203 7.112203 7.112203 7.11212 7.11212 7.11212 7.11212 | dbn E 177036 590616 14.41970 35.9697 2144700 64 0.10 1 | Model E Control Contro Control Control | Model E Control State S | No. No. <td>Image: second second</td> <td>Image: service service</td> <td>Image: Second second</td> <td>of the constraint of the</td> <td>e. Model e. Model Mo</td> <td>Image: Second second</td> | Image: second | Image: service | Image: Second | of the constraint of the | e. Model Mo | Image: Second |

Appendix C Response to Submissions



Willowbank School

Pre-lodgement feedback from neighbouring properties

The proposed expansion and removal of the roll cap for Willowbank School was consulted with neighbouring properties of the school. Three property owners have provided feedback with matters related to traffic, which were of a very similar nature.

The properties at 93 Gracechurch Drive are directly adjacent to the eastern boundary of the school site where there is a pedestrian pathway into the school that is well used. Meetings for two of the property owners over MS Teams were conducted on the week commencing 1 November where the traffic issues were discussed.

The owners have raised similar issues (in bold and italics), followed with Abley's response.

Our driveway is regularly blocked (on a daily basis) by parents dropping off and picking up students. We have a very busy shared driveway with at least 10 vehicles requiring access. An increased roll would increase our access issues.

Traffic congestion around the school at drop off and pick up time is already very dangerous, with incidents of children nearly being hit by cars witnessed regularly. There is limited parking around the school and there are not many safe options for parking further away from the school. Travelwise does not appear to alleviate any congestion at our end of the school.

We also have periodic problems with parent's parking their cars across our drive and sometimes up our drive and onto our property. While we are aware that this is not directly a problem of the school's making, any improvements that can be made to traffic management and control in the area during drop off and pick up would be appreciated.

The parking surveys show that there is currently on-street parking capacity in both the mornings and afternoons within 200m of the school, at the peak times. Drone footage was studied and there were generally minimal driver behaviour issues on Gracechurch Drive or Middlefield Drive with cars blocking driveways. However, there were some instances of vehicles blocking the driveways at 93C and 93E Gracechurch Drive. The drone footage showed that there was alternative parking available outside the school at the time when vehicles were blocking the driveways. This suggests that it is a behavioural issue as opposed to no other parking options available. However, we also acknowledge that parking is in high demand for the peak 10-15 minutes before and after school. The following mitigation may help alleviate this issue:

- I. It is proposed to construct a new pedestrian pathway on Gracechurch Drive approximately 80m to the west of the existing pedestrian access; and relocate the existing pedestrian crossing to align with this path. The new pedestrian access located away from the properties at 93 Gracechurch Drive may in turn shift the highest demand for parking away from 93 Gracechurch. Whilst closing off the existing pedestrian crossing adjacent to 93 Gracechurch Drive was discussed with neighbours during consultation, the school itself does not favour closing this crossing as it provides more direct and distributed access points to classrooms.
- II. The proposed expansion of the school includes redesigning the on-site pick up and drop off (PUDO) area at the front of the school on Willowbank Drive. This will add an additional 13 parking spaces which are not currently in use. The operation of the PUDO area is expected to take pressure off the on-street parking capacity and provide a more efficient system for pick up and drop off.
- III. It is recommended the School consider utilising either the local Constable or AT Parking Officers to enforce this issue if vehicles continue to block driveways. It is understood this can be done alongside an education campaign through the TravelWise programme.

The streets around the school are narrow. Car parking on both sides of the road results in only one lane of traffic able to get through and causes congestion.

Gracechurch Drive has parking on both sides of the road. The road width along Gracechurch Drive is wide enough to allow for traffic to flow comfortably in both directions when parking is occupied on both sides of the road. This was also observed from the drone surveys.

Middlefield Drive outside the school has parking in one side of the road only. The road width on Middlefield Drive is wide enough to allow for traffic to flow comfortably in both directions when parking is occupied on one side of the road. This was also observed from the drone surveys.

Our surveys showed some queuing on Middlefield Drive primarily as a result of the high volume of students using the pedestrian crossing outside the school which at times backed through the Middlefield Drive and Gracechurch Drive roundabout. However, the queues clear quickly as the pedestrian crossing is patrolled.

Appendix D

Response to Auckland Council and Auckland Transport Feedback



WILLOWBANK SCHOOL - ABLEY RESPONSE TO AUCKLAND COUNCIL AND AUCKLAND TRANSPORT FEEDBACK ON DRAFT ITA REPORT – DECEMBER 2021

AUCKLAND COUNCIL FEEDBACK

Comment	Abley Response
1. The Transport Assessment [TA] assessed the effects of an expansion of the roll to 1000 students; however, the proposed alteration seeks to delete the existing cap rather than amending it to 1000 students. Please provide additional information on how the roll could be limited to 1000 students or provide an assessment of the effects from a greater roll.	The master plan brief was to accommodate a roll of 900 students. 1000 has been used for the purposes of the transport assessment which is a conservative assessment and accounts for potential additional growth. The Minister does not favour roll caps on its designations and generally there are no roll caps on schools designated in the Auckland Unitary Plan.
2. The TA describes the loading situation noting that the "loading arrangement will remain the same for the future stages of school expansion". The northern part of the school, where it appears all truck movements currently occur, is expected to have significant change in future. Please provide details of the truck and other servicing traffic arrangements and movements for the existing and proposed site layouts, including how truck turning and reversing movements are proposed to be accommodated.	Manoeuvring of trucks on-site is an OPW matter and will be incorporated into the design at later stages. However, it is expected that adequate manoeuvring space will be included on-site to ensure minimal reversing on-site and no reversing onto or off the road (see Section 2.3 of the revised ITA).
3. Please provide a map showing the physical extents of the survey areas A to J noted in the appendix to the TA.	Figures 3.1 and 3.2 are updated with parking zones labelled A to J.
4. During Mr Edwards' visit to the area on the afternoon of 19 November he observed school-related on-street pick-up parking in streets not included in the TA survey, including Rialto Court and Thornberry Crescent. Please expand the physical extent of the on-street parking survey to include a wider area, including at least those streets identified above, to ensure that all areas used for pick-up and drop-off parking are measured. Note – it may be beneficial to provide a better understanding of the on-street parking situation if the surveys covered a longer period before and after school to cover the increase and decrease in parking demand.	The drone footage didn't always capture Rialto Close and Thornberry Crescent. However, we've undertaken further analysis from the drone footage that is available for this area and conclude that in the mornings, these streets were not utilised for school pick up and drop off. However, in the afternoons, there was school traffic utilising these streets, with approximately 30-40% parking availability remaining throughout the afternoon pick up period. We have not updated the parking survey results to include these roads as the data is not regular enough to match the data on the surrounding roads, and it will not dramatically change the results. In fact, it would result in a favourable result as the addition of Thornberry Crescent would increase the average parking capacity in proximity to the school.
	In regard to extending the survey times. The morning survey time started when children are allowed to enter the school grounds (8.30am) and finished once the school bell rang. In the afternoons, the surveys started 5 minutes prior to the school bell ringing and finished once the majority of the children had left the premises. It is recognised that caregivers likely arrive prior to 2.55pm for the afternoon pick-up however at every other time it would be unlikely that there would be any school traffic to survey. Extended

	survey times are not thought to provide any additional benefit or conclusions to the
	parking study outcomes.
5. The recommendations for the supply of on-site parking are dependent upon	This query is now obsolete as MOE have since agreed to adopt the standard AUP
observations of parking demand during two short periods on one day. Please	school designation parking condition of 2 on-site parking spaces per additional
provide data to demonstrate that the maximum demand for on-site parking	classroom.
occurs during the times surveyed, and/ or provide additional survey data from	
other times of day.	
Advice Note: The strength of the parking supply recommendation would be	
improved by providing survey data from additional days. Ideally this would	
include a winter period with poorer weather when people may be less likely to	
use active modes or public transport	
6. The TA is recommending the pedestrian crossing on Middlefield Drive is	There is unlikely to be any net loss of parking spaces with the relocation of the
relocated approximately 55m to the south (with the form and location to be	pedestrian crossing, as further parks will be gained at the location of the current
determined in consultation with Auckland Transport). Please provide details on	crossing.
the impact this change would have on the supply of on-street parking spaces,	The new crossing location is a safer option as it will be removed from the entrance to the
and how the relocation of the crossing may impact on other road users	PUDO which is causing some safety issues. Desire lines will largely be retained for the
including people accessing the childcare centre located close to the existing	childcare centre, aside from pedestrians coming from the north and walking on the
crossing.	western side of Middlefield Drive. In this scenario, pedestrians would need to walk an
	additional 100m to access the crossing. All pre-school children are escorted to and from
	the centre and will therefore be in the presence of adults when crossing the road. Effects
	on the childcare centre are therefore considered to be minimal.
7. A new pedestrian access point to the school is proposed near the relocated	This will be confirmed at OPW stage.
pedestrian crossing on Middlefield Drive. Please demonstrate there is sufficient	
space to accommodate a pedestrian gate and a stair between the site	
boundary and the footpath along the edge of the PUDO area or provide	
drawings of a revised PUDO area with an updated number of parking spaces	
that can be provided. Note – this may be able to be provided at Outline Plan	
stage?	
9. The TA assessment of on-site PUDO parking is based on several	Section 5.2 in the revised ITA, and survey results in Appendix A, provides further
assumptions that are said to be based on previous surveys. Please provide	information on the surveys undertaken at other schools.
details to support the assumption of average 39s dwell-time during the peak	Two dwell time surveys were taken at Gladstone School. One day had an average dwell
20-minute period in the morning, and the assumption that 30% of vehicular	time of 39 seconds and the second survey day was 37 seconds. The more conservative
traffic would not use the PUDO area due to an adult escorting a younger child	average dwell time of 39 seconds was therefore adopted for the PUDO calculations.
to their classroom.	The assumption that 30% of vehicle traffic will not simply drop off/pick up their child and
Advice Note: based on the TA analysis, the current roll of 809 students could be	will instead walk their child into the classroom is based on the understanding that the
serviced by 6 PUDO spaces in the morning. This is not consistent with the	junior years (years 0-2) require a caregiver to pick up their child up from the classroom
observed on-street parking demand (with the PUDO closed) of at least 35 cars	(teachers often need to see the caregiver before releasing the younger children from the
during the morning peak period (and over 110 cars in the afternoon peak period).	

10. To allow a better understanding of the future transport situation for residents and others please provide a map showing the estimated extents of on-street parking during the afternoon pick-up period in future allowing for areas where parking is not permitted.	 classroom). Years 0-2 likely makes up half the school, but this has been rounded to 30% as it is not a precise science and there are no known survey datasets available. We are proposing 13 PUDO spaces at Willowbank, therefore the PUDO calculations are well and truly exceeded. PUDO spaces are likely to be more efficient that on-street spaces, with a higher turnover. This is explained further in point 10 below. There is currently around 20% capacity within 200m of the school site, which in theory would accommodate a 20% growth in the school roll. In addition to the capacity of onstreet parking, there will be an additional 13 PUDO parking spaces available for future use. The PUDO spaces will allow for more efficient turnover of vehicles with systems in place that allows for children to wait adjacent to the PUDO and go directly to the waiting vehicle. The use of the PUDO also allows caregivers to arrive a few minutes after school finish time as the children will be safely waiting within school grounds. This allows a greater distribution of school traffic throughout the afternoon peak.
AUCKLAND TRANSPORT FEEDBACK	
Active Modes and Public Transport Please provide further information on the low cycling, scooter and public transport mode share and identify measures to better serve these modes. Please provide a safety assessment for active mode (pedestrians, cyclists, scooters, etc) access to the school, including on the surrounding routes to school. Where mitigations are identified, please comment on the feasibility and timing of implementation.	Please refer to Section 2.6 of the revised ITA. Cycling to school is generally not encouraged for primary aged school children, as the younger years tend not to have adequate judgement for cycling on their own. It is unlikely that Willowbank School would want to actively encourage younger children to cycle to/from school. The low public transport uptake is also typical of a primary school as young children would unlike change a public bus on their own. The size of the school zone also does not lend itself to catching PT to/from school. Section 2.6 of the revised ITA provides a safety assessment of the routes to school. In summary, there are footpaths on both sides of the majority of roads and safe crossings points across the arterial roads in the school zone.
Trip Generation Confirm the existing vehicle trips generated by the school and detail the expected trips resulting from the growth proposed including staff trips and assess the impact this additional trip generation has on the intersections at Middlefield Drive / Gracechurch Drive and Middlefield Drive / Glastry Close. Please provide an assessment of the number of peak hour vehicle trips that can be generated by the site without vehicle queueing exceeding the stacking space of the intersections. The Transport Assessment lacks detail in considering these intersections.	Section 3.6 of the revised ITA provides an estimation of future traffic volumes and an intersection performance analysis of the two roundabouts on Middlefield Drive. A queue length survey was undertaken from the drone footage to assess the existing performance of the intersections. The surveys showed average queue lengths of 2.6 vehicles or less over the two peak periods. The roundabouts operate very well in both the mornings and afternoons and will comfortably accommodate any additional traffic expected with the growth of the school roll.
Miscellaneous Confirm if the designation still needs to provide for Early Childhood Education.	We can confirm the designation have not need to provide for an ECE.

Provide confirmation as to when the 'future accessible path' to Gracechurch Drive is intended to be provided and whether MOE will take responsibility for ensuring this is provided - it is identified as a school project.	The school has funding for the internal path and installing it to be ready for when Stage 1 works are being completed. This will be clarified as part of the OPW.
The transport assessment has not sufficiently established that 1.75 parking spaces per classroom is sufficient to manage the effects of travel demand. In fact it is proposed to provide more than this ratio on site - though with stacking at 1000 roll and reliance on visitor parking in the PUDO area. There has been	We have removed the reference to 1.75 parking spaces per classroom and can confirm that we will provide the 2 car parks per classroom as per the existing standard designation condition.
no consideration as to the effect on vehicle movements that stacking of car parking spaces can have. Please elaborate.	The stacked parking will be managed by the school office. The condition amendments proposed by Auckland Transport in regard to management of stacked parking as included in the resubmitted designation package was accepted by the Ministry of Education on behalf of the Minister.
Please elaborate on the recommendation in the Transport Assessment that the school use either the local constable or AT parking officers for enforcement to stop the blocking of private driveways.	As discussed at our meeting with Auckland Transport and Auckland Council on 14 Dec 2021, it was confirmed (by AT) that schools do have the opportunity to call on AT parking officers or the local constable to enforce illegal parking behaviours. The school also actively addresses the issue of vehicles parking over driveways through the school newsletter.
Provide consideration of the activities common to schools such as sports matches, community events, fairs, or community activities which would be permitted by the standard conditions. In particular, their transport effects particularly given the proposed roll growth and changes in parking arrangements on site.	This is an operational issue that is not relevant to the alteration. These events are infrequent and are managed by the school on a case-by-case basis. If there is a need for a larger event to be held, they may choose an offsite location.
Please provide detail on the quantum and location of easy access mobility spaces (Refer to NZS 4121).	This is an OPW matter and will be addressed at a later stage.
Please provide information about the expected staffing numbers at 1000 roll as this is relevant for determining travel demand from staff and the adequacy of the proposed parking arrangements.	This is not provided as the Minister is no longer proposing an amendment to the standard carparking condition.
Please provide information about the existing loading facilities (e.g. for waste disposal and deliveries). The Transport Assessment says that these will remain unchanged but does not establish whether they are adequate or will be affected by other changes proposed on site to accommodate roll growth.	This will be confirmed at OPW stage and should not be a matter needing to be confirmed for an alteration to the designation.



Appendix D

2000 Consent Order

IN THE MATTER of the Resource Management Act 1991

AND

IN THE MATTER of an appeal under section 174 of the Act

<u>BETWEEN</u>

(RMA 614/00)

Appellants

AND

THE MINISTER OF EDUCATION

KG and LJ STEVENSON

Respondent

BEFORE THE ENVIRONMENT COURT

Environment Judge D F G Sheppard

IN CHAMBERS at AUCKLAND on 7 September 2000

CONSENT ORDER

HAVING CONSIDERED the notice of appeal and the memorandum lodged on behalf of the parties **THE COURT HEREBY ORDERS BY CONSENT** that:

(i) The respondent's decision upholding the designation is amended by adding the following condition:

The school will have a maximum roll of 540 pupils provided that the roll will be able to exceed 540 pupils up to a maximum of 700 pupils for a period not exceeding three years.

- (ii) In all other respects, the respondent's decision is confirmed.
- (iii) There is no order as to costs.

In accordance with the consent memorandum filed by the parties it is recorded that:



The Minister of Education does not consider that a condition limiting roll numbers is appropriate or necessary with regard to the designation.

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- (ii) The appellants remain of the view that such a condition is appropriate and necessary.
- (iii) The parties agree that it is essential for the school to open at the beginning of 2001 in order to relieve pressure on existing educational facilities in the East Tamaki Corridor area of Manukau City in order to promote the ongoing provision of adequate educational facilities for children in that part of Manukau City.
- (iv) In the circumstances the parties have agreed that the designation should be confirmed at this stage subject to a condition imposing a restriction on the maximum roll in the form set out above. The parties understand that the condition is without prejudice to the Minister's view that it is unnecessary and inappropriate and that the Minister reserves the right to lodge with Manukau City Council after the designation has been confirmed a requirement to alter the designation through removal of the condition. That will allow the issue to be determined substantively at a hearing in the future without compromising the establishment of the school.

DFG Sheppard Environment Judge



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WINISTRY OF EDUCATION



Appendix E

Standard Designation Conditions for Schools in Auckland Unitary Plan

Standard Conditions for All Education Designations

Explanatory Notes

- 1. Each of these designations enables the establishment of a school that is able but is not required to cater for all the school years listed in the designation description.
- **2.** "Educational Purposes" for the purposes of these designations shall, in the absence of specific conditions to the contrary:
 - (i) Enable the use of the facilities on the designated site by and for the educational benefit of any school age students (ie: years 0 to 13) regardless of whether they are enrolled at any institution located on that designated site.
 - (ii) Enable the provision of supervised care and study opportunities for students outside school hours in school facilities
 - (iii) Enable the provision of community education (eg: night classes for adults) outside school hours in school facilities
 - (iv) Include but not be limited to the provision of academic, sporting, social and cultural education including through:
 - Formal and informal recreational, sporting and outdoor activities and competitions whether carried out during or outside school hours;
 - Formal and informal cultural activities and competitions whether carried out during or outside school hours; and
 - The provision of specialist hubs and units (including language immersion unites and teen parent units) for students with particular educational requirements or special needs.
 - (v) Enable the use of facilities for purposes associated with the education of students including school assemblies, functions, fairs and other gatherings whether carried out during or outside school hours.
 - (vi) Enable the provision of associated administrative services; carparking and vehicle manoeuvring; and health, social service and medical services (including dental clinics and sick bays).
 - (vii) Enable the housing on site for staff members whose responsibilities require them to live on site (eg: school caretaker) and their families.
- **3.** Where any standard condition conflicts with a site specific condition, the site specific condition shall take precedence.

Conditions

1. Height in Relation to Boundary

Any new building or building extension (excluding goal posts and similar structures) shall comply with the height in relation to boundary controls [attached to this Schedule] from any adjoining land zoned primarily for a residential purpose, or zoned for an open space/outdoor recreation purpose.

2. Noise

The noise (rating) level arising from the operation of the school must comply with the following noise levels when measured within the boundary of any residentially zoned site, or within the notional boundary of any site in any rural zone:

Time	Noise level
Monday to Saturday 7am to 10pm	EE dD I
Sunday 9am to 6pm	55dB L _{Aeq}
All other times	45 dB L _{Aeq} 75 dB L _{AFmax}

These noise limits do not apply to noise from school sports and school recreational activities occurring between 8am and 6pm Monday to Saturday.

Noise levels shall be measured and assessed in accordance with NZS 6801:2008 "Measurement of Environmental Sound" and NZS 6802:2008 "Environmental Noise".

Noise from construction shall not exceed the limits recommended in, and shall be measured in accordance with, New Zealand Standards NZS 6803:1999 "Acoustics – Construction Noise".

3. On-Site Car Parking – Schools

Additional on-site car parking shall be provided at the rate of two carparks per new classroom or classroom equivalent, except where the council accepts, on the basis of a specifically commissioned parking study by an appropriately qualified engineer and/or transportation planner, that a lesser level is appropriate. For the avoidance of doubt, this condition shall only apply where there is a net increase in the number of classrooms or classroom equivalents.

4. On-Site Car Parking – Early Childhood Education (Preschool)

In addition to any car parking required for the school, on-site car parking for early childhood education (preschool) shall be provided at the rate of one car park per every 10 children the facility is licensed or designed to accommodate, plus one per each full time equivalent staff member required for the license or design capacity of the centre, except where the Council accepts, on the basis of a specifically commissioned parking study by an appropriately qualified engineer and/or transportation planner, that a lesser level is appropriate.

5. Scheduled Trees

No tree or group of trees specifically scheduled in the Unitary Plan may be cut, damaged, altered, injured, destroyed or partly destroyed, or works undertaken within the drip line of any such tree(s), other than in accordance with an outline plan submitted and processed in accordance with the s176A of the Resource Management Act 1991. This condition shall not apply to minor trimming or maintenance undertaken by hand operated secateurs or pruning shears in accordance with accepted arboricultural practice, or where removal or trimming is required to safeguard life or property.

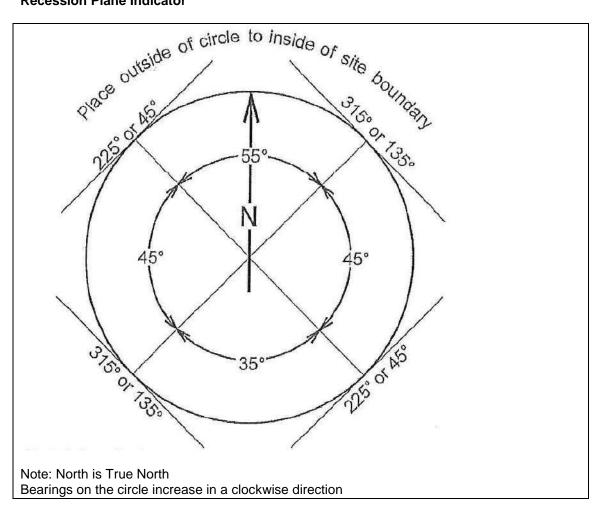
6. Outline Plans

That an outline plan of works shall not be required for:

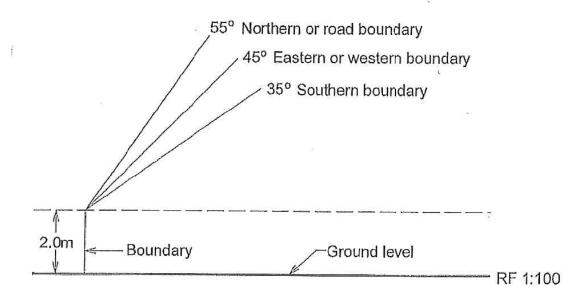
- a) Any internal building works other than those that result in a net increase in the number of classrooms or classroom equivalents;
- b) General building maintenance and repair work including but not limited to re-painting, re-cladding and re-roofing;
- c) Installing, modifying and removing playground furniture and sports structures (e.g. goal posts);
- d) Amending any internal pedestrian circulation routes/pathways;
- e) Installing, maintaining or repairing any in ground infrastructure services such as stormwater, sewerage and water lines and connections, including any ancillary earthworks;

- Provision of landscaping and gardens, provided that it does not conflict with any designation condition or alter landscaping required as mitigation as part of an outline plan for other works; or
- g) General site maintenance and repair work, or boundary fencing otherwise permitted by the Unitary Plan.

Recession Plane Indicator



Recession Plan Cross Section





Appendix F

Certificate of Title



RECORD OF TITLE UNDER LAND TRANSFER ACT 2017 FREEHOLD

Search Copy



R.W. Muir Registrar-General of Land

Identifier	871531
Land Registration District	North Auckland
Date Issued	08 January 2019

Prior References GN D455102.2

Estate	Fee Simple
Area	2.4435 hectares more or less
Legal Description	Section 1 Survey Office Plan 69890
Purpose	State School
Registered Owners	
Her Majesty the Quee	n

Interests

11327816.2 Certificate under section 148 of the Nga Mana Whenua o Tamaki Makaurau Collective Redress Act 2014 that the within land is RFR land as defined in section 118 and is subject to Subpart 1 of Part 4 of the Act (which restricts disposal, including leasing of the land) - 8.1.2019 at 4:31 pm

Subject to a right (in gross) to convey electricity over part marked A on DP 537711 in favour of Vector Limited created by Easement Instrument 11545523.1 - 19.9.2019 at 3:34 pm

Identifier

871531

