

Aura Precincts 17 - 19

Acoustic Report

Development Application



12 December 2024

Ref: 304701171

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Revision Schedule

Revision No.	Date	Description	Prepared by	Quality Reviewer
C01	5/11/2024	DA Draft Acoustic Report – P17 - P19	MK	MLL
C02	12/12/2024	Acoustic Report – P17 - P19	MK	MLL

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1. Introduction

Stantec Australia Pty Ltd (Stantec) have been engaged by Stockland Development Pty Ltd to undertake a noise impact assessment for the development application stage (DA) of the proposed Aura Precincts 17 - 19 located on Lot 3/SP333886 and is within the Caloundra South Priority Development Area (CS PDA)

This acoustic assessment report:

- Discusses the acoustic condition of the existing site as well as the acoustic quality standards for the Project.
- Establishes criteria pertinent to external noise intrusion from road traffic noise; and
- Provides in-principal design recommendations and discussion for the abovementioned parameters based on the findings and applicable design guidelines.

A glossary of acoustic terms used in this report is included in **Appendix A**.

The recommendations made in this report are specific to the project design at the date of issue of this report. The project design may be subject to change during the following stages. Where this occurs, the assumptions made to inform the recommendations in the report may no longer be valid; therefore, further advice should be sought to ensure that the acoustic outcomes presented in this report are achieved.

The performance of products referred to in this report are made to meet the acoustic requirements only. It does not consider other aspects, including but not limited to thermal, wind, impact, structural, mechanical, national construction code, security and fire requirements. Relevant discipline reports, drawings and specifications should be referred to for conformance.

This report relates to this specific project and must not be applied to any other project without prior consultation with Stantec. Designs and conditions can vary between projects causing significant variations in acoustic performance and relevant subsequent advice to one project may not apply to another.

This report shall not be relied upon as providing any warranties or guarantees of construction quality regarding acoustics.



2. Referenced Documentation

2.1 Regulations, Policies, Standards and Guidelines

The following documents detailed in **Table 1** are relevant to the project and are referred to throughout this report.

Table 1: Applicable Regulations, Policies, Standards and Guidelines referenced in this report

Title	Abbreviation
STATE LEGISLATION AND LOCAL COUNCIL POLICIES	
State Development Assessment Provisions Version 3.1 (effective 30 th September 2024 from the Department of Housing, Local Government, Planning and Public Works)	SDAP
Queensland Development Code (QDC) Mandatory Part 4.4 (MP4.4) – Building in a transport noise corridor	QDC MP4.4
Sunshine Coast Planning Scheme 2014	SCPS
Caloundra South PDA Development Scheme	CS PDA
AUSTRALIAN AND INTERNATIONAL STANDARDS	
AS 1055:2018 <i>Acoustics – Description and measurement of environmental noise</i>	AS 1055
International Standards Organization 9613-2:1996 <i>Attenuation of sound during propagation outdoors – Part 2: General method of calculation</i>	ISO 9613
Australian / New Zealand Standard AS/NZS 2107:2016 – <i>Acoustics – Recommended design sound levels and reverberation times for building interiors</i>	AS 2107
Australian / New Zealand Standard AS/NZS 3671:1989 – <i>Acoustics – Road traffic noise intrusion – Building siting and construction</i>	AS3671
TECHNICAL GUIDELINES AND OTHER	
Department of Transport and Main Roads (TMR) – Transport Noise Management Code of Practice 2013 Volume 1 – Road Traffic Noise	CoP 2013
UK Department of Transport Welsh Office <i>Calculation of Road Traffic Noise</i> 1988	CoRTN

2.2 Study Inputs

Acoustic assessment and the preparation of this report have been conducted based on the following received documentation detail in **Table 2**.

Table 2: Received documentation

Date Received	Detail	Revision / Date Prepared	Prepared By	Format
30/10/2024	Aura Lakes proposal plan P17 – P19: AU12885-53C - 81C DA2 Proposal Plan Set LR	26/11/2024	RPS	pdf
11/10/2024	Traffic model: DEV20231458RevisedTrafficEngineeringReportApproved2August2024	06/2024	PWC	pdf
17/10/2024	Digital terrain model: 2024-10-17 Reduced TIN	17/10/2024	Stantec	dem



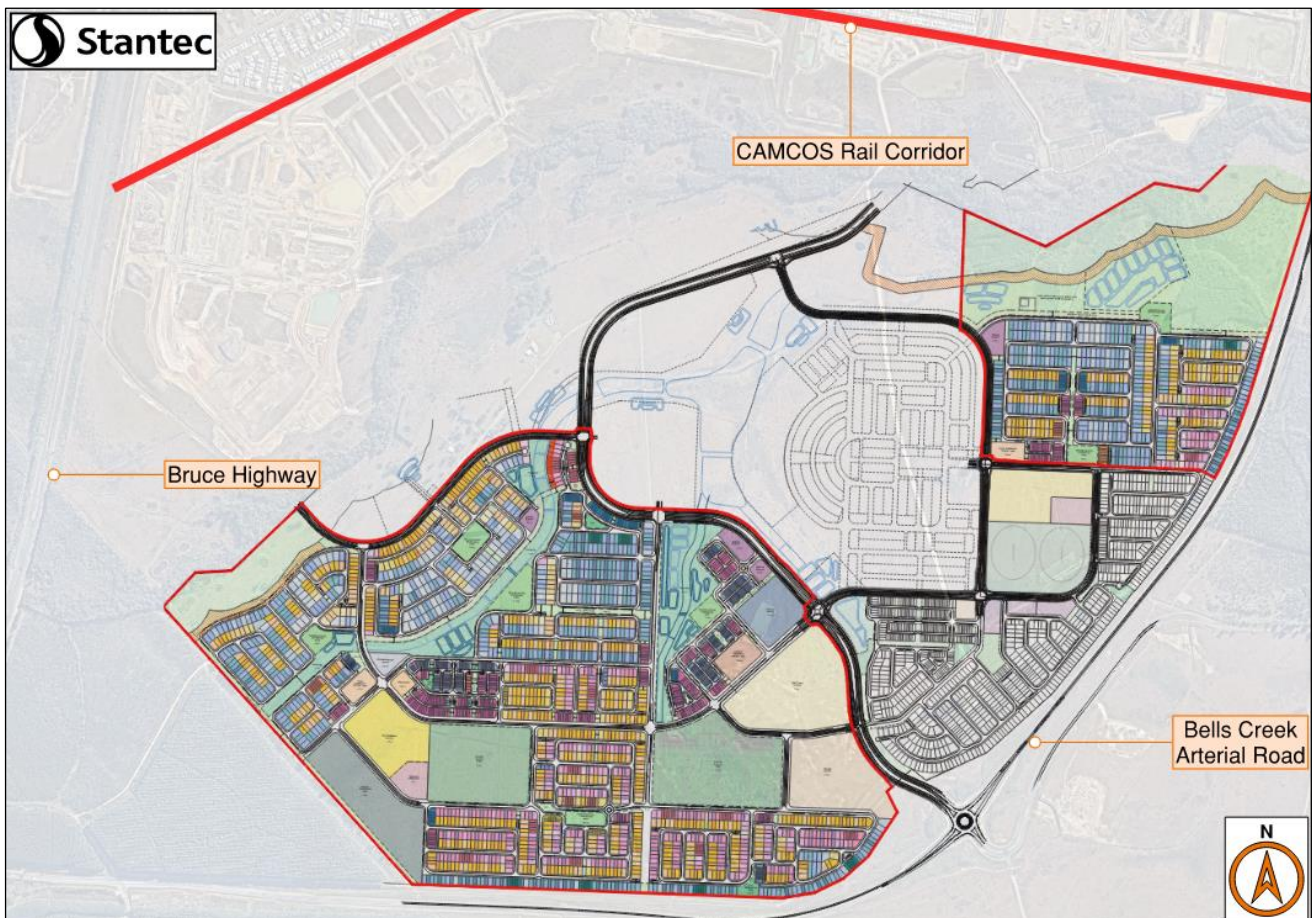
3. Project Details

3.1 Site Description

3.1.1 Project Location

The project site is located on Lot 3 SP333886 and is within the Caloundra South PDA. The project site in relation to Bells Creek Arterial Road, the Bruce Highway and the CAMCOS corridor is provided in **Figure 1**.

Figure 1: Project site



Source: Nearmap (image dated 16/06/2024 – [link](#)) | Annotations by Stantec

3.1.2 Surrounding Land Uses

The following surrounding land uses were identified:

- Bells Creek Arterial Road bounds the south and east of the site;
- Future development is proposed to the north;
- A tree plantation is located to the west and separates the site from the Bruce Highway (>600m distance from the nearest proposed lot to the highway).
- The future CAMCOS rail corridor is >700m north of the nearest residential lot.

3.2 Proposed Development

The proposed development shall include:

- Residential lots;
- Schools;
- Child cares; and
- Parklands.

A full site layout is provided in **Appendix B**.

3.3 Acoustic Design Issues and Considerations

Based on the review of the design documentation the following acoustic design issues have been identified:

- Noise from Bells Creek Arterial Road and large internal roads will impact the amenity of residential lots, schools and childcares.
- Significant separation distance (>600m) is provided between the nearest onsite sensitive lots to the Bruce Highway and CAMCOS rail corridor, therefore these noise sources were not considered further.



4. Acoustic Criteria

4.1.1 QLD State Development Assessment Provisions – State Code 1

The proposed development will be located within 25m of Bells Creek Arterial Road, which is a transport noise corridor. Therefore, the provisions of the QLD SDAP State Code 1: *Development in a state-controlled road environment* (SDAP) are applicable to the site.

The applicable performance outcomes and acceptable outcomes are defined in Table 1.5 of SDAP SC1 and are reproduced in **Table 3** below.

Table 3: SDAP SC1 Applicable Performance and Acceptable Outcomes

Performance Outcomes	Acceptable Outcomes
Reconfiguring a lot	
Involving the creation of 6 or more new residential lots adjacent to a state-controlled road or type 1 multi-modal corridor	
PO38 Reconfiguring a lot minimises free field noise intrusion from a state-controlled road .	AO38.1 Development provides noise barrier or earth mound which is designed, sited and constructed: 1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.1); 2. in accordance with: a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. OR AO38.2 Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.
Material change of use (accommodation activity)	
Ground floor level requirements adjacent to a state-controlled road or type 1 multi-modal corridor	
PO41 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference Table 3 (item 3.1 (see Table 6 below)).	No acceptable outcome is provided.
Material change of use (accommodation activity)	
Above ground floor level requirements (accommodation activity) adjacent to a state-controlled road or type 1 multi-modal corridor	
PO42 Balconies, podiums, and roof decks include: 1. a continuous solid gap-free structure or balustrade (excluding gaps required for drainage purposes to comply with the Building Code of Australia);	No acceptable outcome is provided.



Performance Outcomes	Acceptable Outcomes
2. highly acoustically absorbent material treatment for the total area of the soffit above balconies, podiums, and roof decks.	
PO43 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1 (see Table 6 below)).	No acceptable outcome is provided.
Material change of use (other uses)	
Ground floor level requirements (childcare centre, educational establishment, hospital) adjacent to a state-controlled road or type 1 multi-modal corridor	
PO44 Development: - provides a noise barrier or earth mound that is designed, sited and constructed: - to achieve the maximum free field acoustic level in reference table 2 (item 2.3) for all outdoor education areas and outdoor play areas; - in accordance with: - Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; - Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; - Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020;or - achieves the maximum free field acoustic level in reference table 2 (item 2.3) for all outdoor education areas and outdoor play areas by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.	No acceptable outcome is provided.
PO45 Development involving a childcare centre or educational establishment : - provides a noise barrier or earth mound that is designed, sited and constructed: - to achieve the maximum building façade acoustic level in reference table 1 (item 1.2); - in accordance with: - Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013;	No acceptable outcome is provided.



Performance Outcomes	Acceptable Outcomes
b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020; or 4. achieves the maximum building facade acoustic level in reference table 1 (item 1.2) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.	
Above ground floor level requirements (childcare centre, educational establishment, hospital) adjacent to a state-controlled road or type 1 multi-modal corridor	
PO47 Development involving a childcare centre or educational establishment which have balconies, podiums or elevated outdoor play areas predicted to exceed the maximum free field acoustic level in reference table 2 (item 2.3 (see Table 5 below)) due to noise from a state-controlled road are provided with: 1. a continuous solid gap-free structure or balustrade (excluding gaps required for drainage purposes to comply with the Building Code of Australia); 2. highly acoustically absorbent material treatment for the total area of the soffit above balconies or elevated outdoor play areas.	No acceptable outcome is provided.
PO48 Development including: 1. indoor education areas and indoor play areas in a childcare centre or educational establishment; or 2. sleeping rooms in a childcare centre; or 3. patient care areas in a hospital located above ground level, is designed and constructed to achieve the maximum internal acoustic level in reference table 3 (items 3.2 - 3.4 (see Table 6 below)).	No acceptable outcome is provided.

Table 4: Maximum building facade acoustic levels (Table 1 – SDAP SC1)

Applicable use	Acoustic levels
1.1: Accommodation activity	a. ≤ 60 dB(A) L_{10} (18 hour) façade corrected (measured L_{90} (8 hour) free field between 10pm and 6am ≤ 40 dB(A)) - OR b. ≤ 63 dB(A) L_{10} (18 hour) façade corrected (measured L_{90} (8 hour) free field between 10pm and 6am > 40 dB(A))
1.2: Childcare centre or educational establishment	≤ 58 dB(A) L_{10} (1 hour) façade corrected (maximum hour during normal opening hours)



Table 5: Maximum free field acoustic levels (Table 2 – SDAP SC1)

Applicable use	Acoustic levels
2.2: Private open space for residential lots	a. ≤ 57 dB(A) L_{10} (18 hour) free field (measured L_{90} (18 hour) free field between 6am and 12 midnight ≤ 45 dB(A))
2.2: Private open space for an accommodation activity (including lots created for a future accommodation activity)	OR b. ≤ 60 dB(A) L_{10} (18 hour) free field (measured L_{90} (18 hour) free field between 6am and 12 midnight > 45 dB(A))
2.3: Outdoor education areas and outdoor play areas in a childcare centre or educational establishment	c. ≤ 63 dB(A) L_{10} (12 hour) free field (between 6am and 6pm)

Table 6: Maximum internal acoustic levels (Table 3 – SDAP SC1)

Applicable use	Acoustic levels
3.1: Habitable rooms in an accommodation activity (excluding uses addressed in QDC MP4.4)	≤ 35 dB(A) L_{eq} (1 hour) (maximum hour over 24 hours)
3.2: Indoor education areas and indoor play areas in a childcare centre or education establishment	
3.3: Sleeping rooms in a childcare centre	

4.1.2 Queensland Development Code Mandatory Part 4.4

Queensland Development Code Mandatory Part 4.4 (QDC MP4.4) was introduced 31st August 2010 and updated 17th August 2015 in conjunction with planning policy requirements which define planning overlay areas affected by transportation noise as “Transport Noise Corridors”.

The purpose of the Code is to ensure habitable rooms of particular residential buildings located in transport noise corridors are designed and constructed to reduce the extent to which transport noise intrudes into those rooms. The Code applies to any building work on certain residential buildings which are subject to a building development application.

The Code applies to residential buildings if it:

- (i) is class 1, 2, 3 or 4 building; and
- (ii) is located in a transport noise corridor; and
- (iii) is not a relocated building; and
- (iv) building application is made after release of the Code

The Code requires that each external facade of a habitable room be assigned a noise category:

- (i) which is dependent upon the future noise exposure at the façade presented in mapping of Transport Noise Corridor; or
- (ii) as defined by a detailed transportation noise assessment (undertaken in accordance with the requirements of Schedule 3 of the Code). The objective of the noise assessment is to clearly demonstrate the noise category that is applicable to a particular part of a building, or site.

The applicable criteria for determining the relevant noise category are reproduced from the Code and provided in **Table 7**.

Table 7: MP 4.4 Noise Category levels

Noise Category	Level of transport noise ($L_{A10,18hr}$) for State-controlled roads and designated local government roads ¹⁾	Single Event Maximum noise (L_{Amax}) for railway land ¹⁾
Category 4	≥ 73 dBA	≥ 85 dBA
Category 3	68 - 72 dBA	80 - 84 dBA



Noise Category	Level of transport noise ($L_{A10,18hr}$) for State-controlled roads and designated local government roads ¹⁾	Single Event Maximum noise (L_{Amax}) for railway land ¹⁾
Category 2	63 - 67 dBA	75 - 79 dBA
Category 1	58 - 62 dBA	70 - 74 dBA
Category 0	≤ 57 dBA	≤ 69 dBA

NOTES:

1) measured at 1 m from the façade of the proposed building.

4.1.3 Sunshine Coast Planning Scheme 2014

At this stage the Sunshine Coast Planning Scheme 2014 (SCPS) does not provide criteria for road traffic noise intrusion. [SC 6.15 Planning scheme policy for the nuisance code](#) provides guidance on preventing and minimising noise intrusion associated with road traffic but does not include criteria to be achieved.

Section SC6.15.11 of the planning scheme policy refers to multiple codes and guidelines with the following considered relevant for the assessment of road traffic noise:

- AS2107:2000 - Acoustics – Recommended design sound levels and reverberation times for buildings interiors (Standards Australia) 2000;
- AS3671:1989 - Acoustics – Road traffic noise intrusion – Building siting and construction (Standards Australia) 1989;
- Queensland Development Code: Mandatory Part 4.4 - Buildings in a transport noise corridor; and
- Road Traffic Noise Management: Code of Practice (Department of Main Roads) 2008.

For other precincts within Aura, Sunshine Coast Council has allowed the application of the superseded Caloundra City Council and Maroochy Shire Council façade limit of 63 dB(A) $L_{10,18hr}$ for residential land uses. If the façade noise limit is exceeded the building envelope is to be designed using AS3671:1989 to achieve the applicable internal noise levels provided in AS2107:2016.

Further advice from Sunshine Coast Council included information on how to assess a lot when impacted by a State-controlled Road, Council Road or a combination of both. Based on this information an assessment matrix has been developed as shown in **Table 8**.

Table 8: Matrix for road traffic noise intrusion assessment requirements

	State-controlled Road noise $L_{10,18hr} \geq 58$ dB(A) (façade corrected)	State-controlled Road noise $L_{10,18hr} \leq 58$ dB(A) (façade corrected)
Council Road noise $L_{10,18hr} \geq 63$ dB(A) (façade corrected)	QDC MP4.4	AS3671 / AS2107
Council Road noise $L_{10,18hr} \leq 63$ dB(A) (façade corrected)	QDC MP4.4	No assessment required

4.1.4 AS2107:2016 Internal Noise Levels

AS 2107 provides recommendations for suitable internal noise levels (defined as the equivalent continuous A-weighted sound pressure level — $L_{Aeq,t}$) which aim to optimise the acoustic amenity in various occupied spaces. The applicable recommended design values for residential building habitable spaces are reproduced from AS 2107 in **Table 9**.



Table 9: Indoor design sound level criteria

Type of occupancy / activity	Design sound level ($L_{Aeq,T}$) range, in dB(A)
Houses or apartments near major roads	
Living areas	35 to 45
Sleeping areas (night time)	35 to 40
Work areas	35 to 45

4.1.5 Transport Noise Management Code of Practice 2013

As no criteria is provided for non-residential lots subject to council roads, reference has been made to the Transport Noise Management Code of Practice 2013 (CoP 2013) which provides criteria for the assessment of development near new and upgraded roads in Table 3.2 (a) which has been reproduced in **Table 10**.

Table 10: Categories and criteria for roads (including Type 1 Multi-modal Corridor)

Categories	Criteria		
	Existing Residences (façade corrected)	Educational, Community and Health Buildings (façade corrected)	Outdoor Educational and Passive Recreational Areas (including Parks) (free field)
New Road – Access Controlled	63 L_{A10} (18h), existing level > 55 L_{A10} (18h) 60 L_{A10} (18h), existing level ≤ 55 L_{A10} (18h)	58 L_{A10} (1h)	63 L_{A10} (12h)
Upgrading Existing Road	68 L_{A10} (18h)	65 L_{A10} (1h)	N/A
Existing Road – No Roadworks			
Exposure of Second Row of Buildings	65 L_{A10} (18h)	60 L_{A10} (1h)	

Based on the limits in **Table 10** the façade and outdoor criteria for educational, community and health buildings are the same as the SDAP childcare or educational establishment criteria. Therefore, all non-residential lots shall be assessed against the limits provided in **Table 11**.

Table 11: Non-residential lot assessment criteria

Use	Façade	Outdoor areas
Non-residential lot	58 dB(A) $L_{10,1hr}$ façade corrected	63dB(A) $L_{10,12hr}$ free field



5. Noise Impact Assessments

5.1 Road Traffic Noise Impact

5.1.1 Assessment Overview

As the project site is located within 25 m of a State transport corridor and includes internal roads assessable by Sunshine Coast Council, a traffic noise impact assessment is required in order to address the acoustic requirements applicable for to each lot.

5.1.2 Road Traffic Noise Modelling

To predict noise impacts, calculations were made using the recognised CoRTN algorithm assisted by a three-dimensional computer model of the site created within SoundPLAN 9.0 acoustic software. The computer model was created as a representation of the existing and future site, which incorporates the following inputs:

- Calculation algorithms – SoundPLAN implementation of accepted noise prediction standards;
- Terrain elevation – A 3D representation of the existing terrain and at completion of construction;
- Ground surface corrections – Areas of soft (absorptive) and hard (reflective) ground;
- Roads sources – The placement of each road source as a source line and the input of traffic flow parameter;
- Buildings – Detailed implementation of the proposed building from drawings (i.e. layout, height, floors), and
- Sensitive receptors – Locations where the noise limits are to be assessed. As the exact building footprints within the lots have not been finalised at this stage of the assessment, the receivers are generally positioned at the centre of each proposed lot to provide an overview of the potential traffic noise impacts.

Road traffic noise calculations were conducted by applying the SoundPLAN implementation of the UK Department of Transport Welsh Office Calculation of Road Traffic Noise 1988 (CoRTN) algorithms. CoRTN is widely accepted in Australia for the calculation of road traffic noise and, in addition with SoundPLAN, is recommended in the Department of Transport and Main Roads document Transport Noise Management Code of Practice Volume 1 – Road Traffic Noise, dated November 2013 (CoP 2013).

For full details on modelling inputs refer to **Appendix C**.

5.1.3 Predicted Road Traffic Noise Levels to Private Open Space

Residential lots and outdoor education areas affected by road traffic noise from a State-controlled Road is required to comply with the noise limits provided in **Table 5**. Based on the ultimate traffic volumes modelled along Bells Creek Arterial, it is assumed that the $L_{90,18hr}$ will be > 45 dB(A) therefore the applicable noise limits are as follows:

- ≤ 60 dB(A) $L_{10,18hr}$ (measured 6am – 12am midnight) free field in private open spaces of residential lots and / or accommodation activities; and
- ≤ 63 dB(A) $L_{10,12hr}$ (measured 6am – 6pm) free field in outdoor education areas and outdoor play areas in a childcare centre or educational establishment.

To estimate the $L_{A10,12hr}$ parameter a $+1.4$ dB(A) adjustment is applied to the $L_{A10,18hr}$ ¹. Based on this conversion factor and a 3 dB(A) higher noise limit for outdoor education areas, compliance for all outdoor areas is demonstrated by achieving the ≤ 60 dB(A) $L_{10,18hr}$ noise limit.

The predicted free-field noise level at the project site are presented in **Figure 2** and **Figure 3**.

¹ Brown, R. and Brown, H. (2016) 'A re-examination of the relationship between the $L_{10}(18\text{hour})$ noise level parameter and other road traffic noise level parameters' *Proceedings of Acoustics 2016*, DOI: [ACOUSTICS2016-130-Review Paper](https://doi.org/10.1017/ACOUSTICS2016-130-Review-Paper).



Figure 2: BCA Road free-field noise levels without acoustic barriers (Northeast Section)

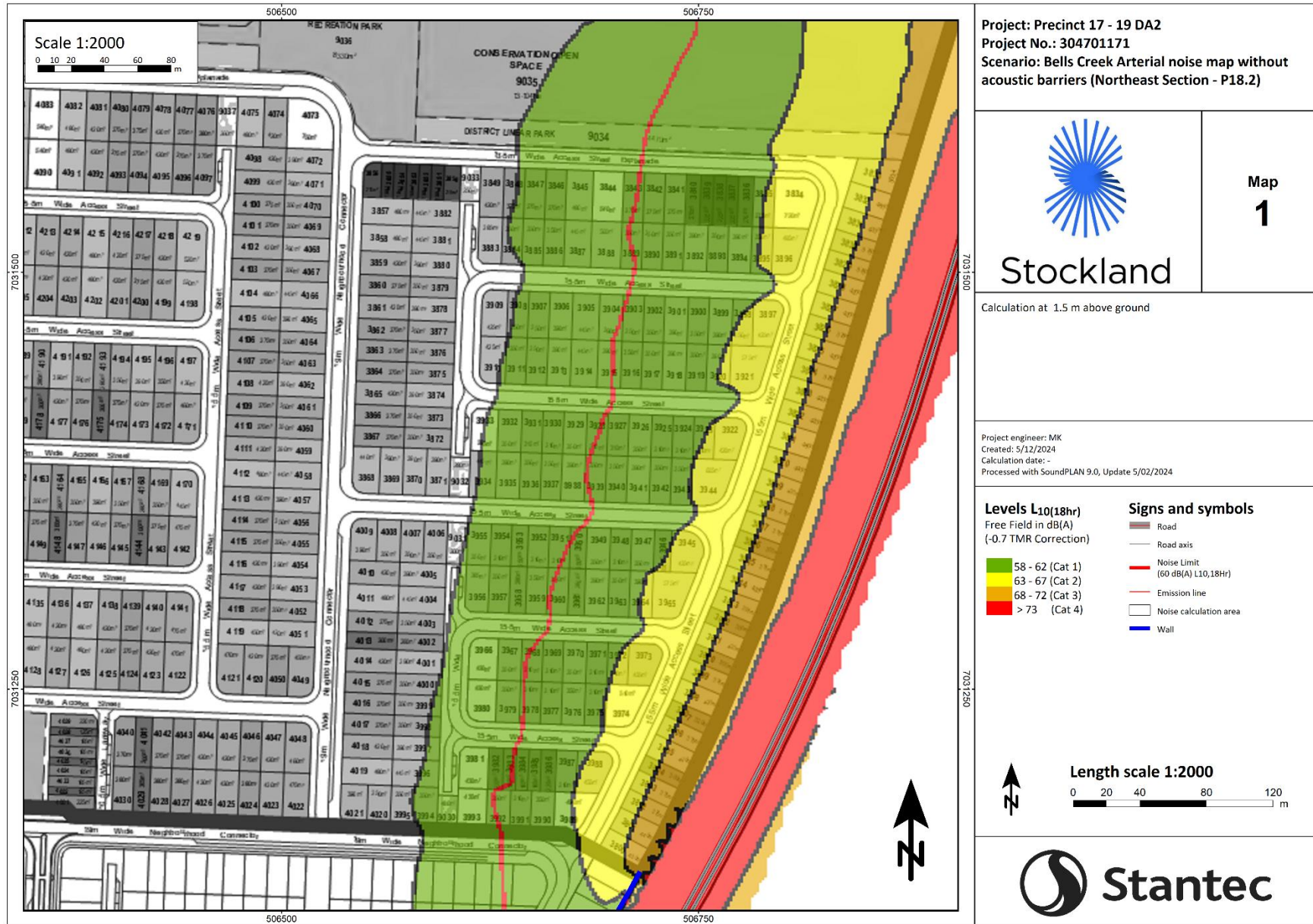
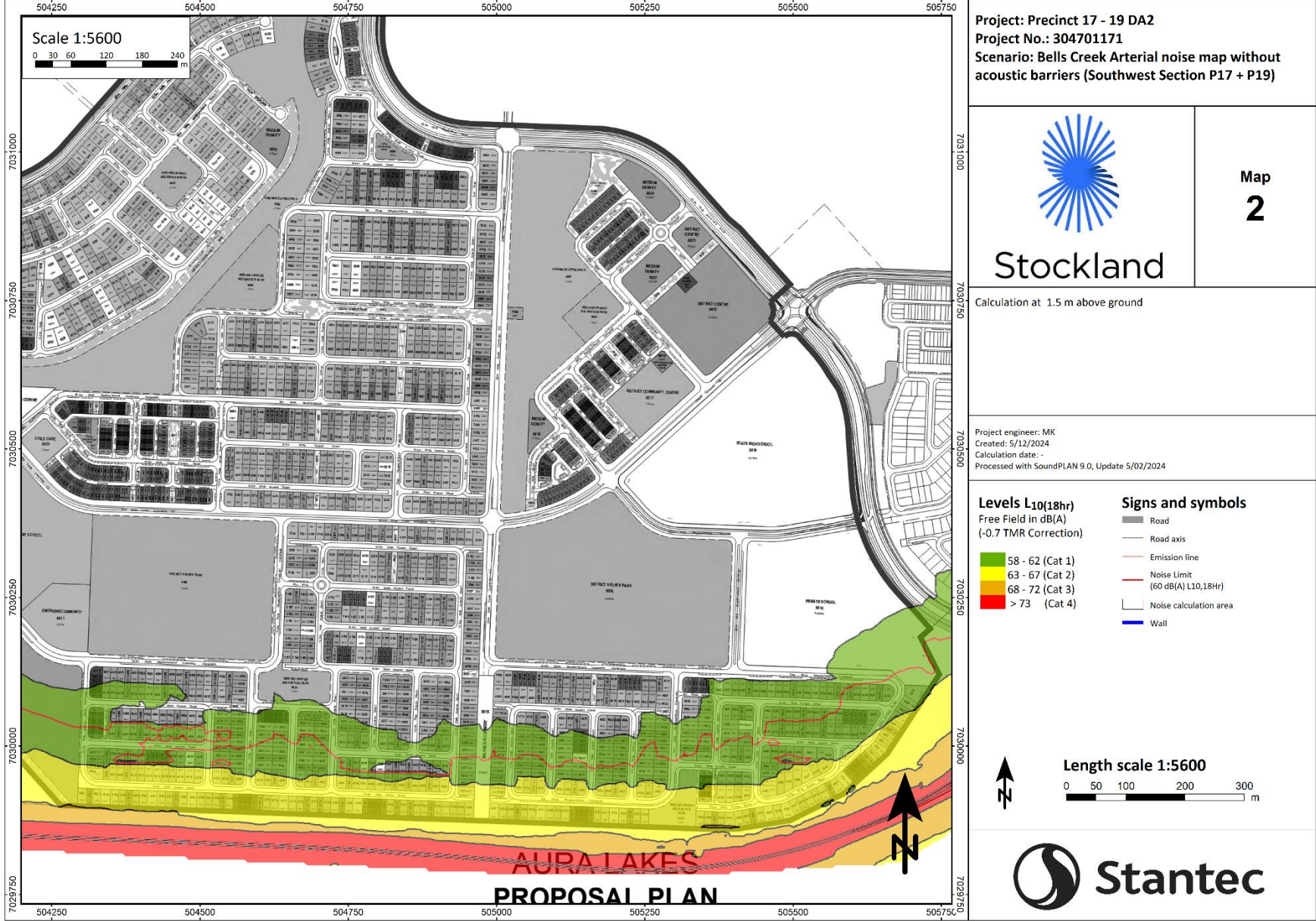


Figure 3: BCA Road free field noise levels without noise barrier (Southwest Section)



5.1.4 Recommended Acoustic Barriers along Bells Creek Arterial Road

To comply with the SDAP free-field noise limits it is recommended to provide acoustic barriers along the Bells Creek Arterial Road frontage. The proposed acoustic barrier locations and heights are presented in **Figure 4**.

Figure 4: Proposed Bells Creek Arterial Road acoustic barrier (Northeast Section – P18.2)

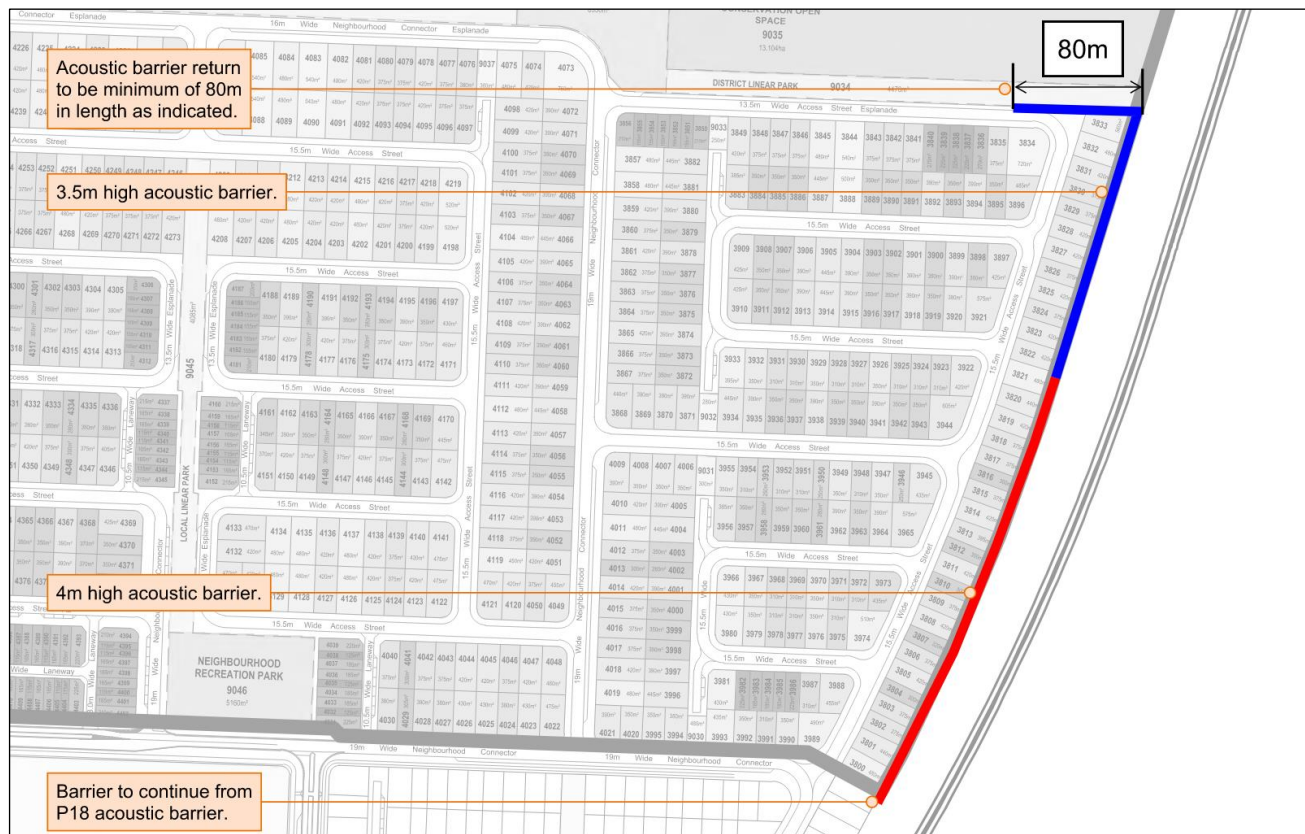
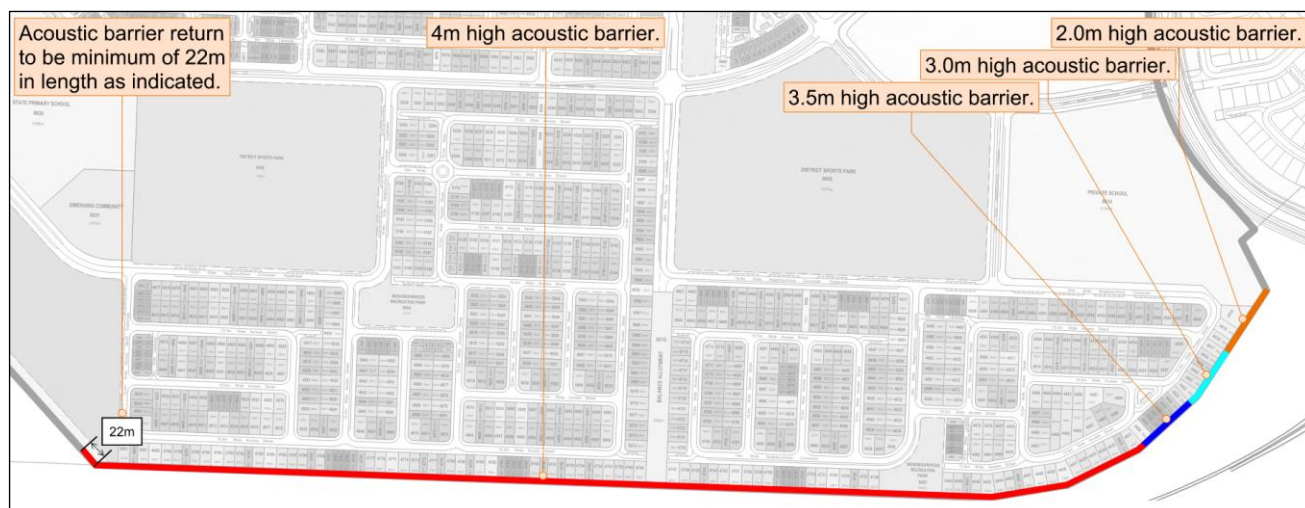


Figure 5: Proposed Bells Creek Arterial Road acoustic barrier (Southwest Section – P19)



The resulting noise predictions with the proposed barriers are presented in **Figure 6** and **Figure 7**.

Figure 6: BCA Road free field noise levels with proposed noise barriers (Northeast Section)

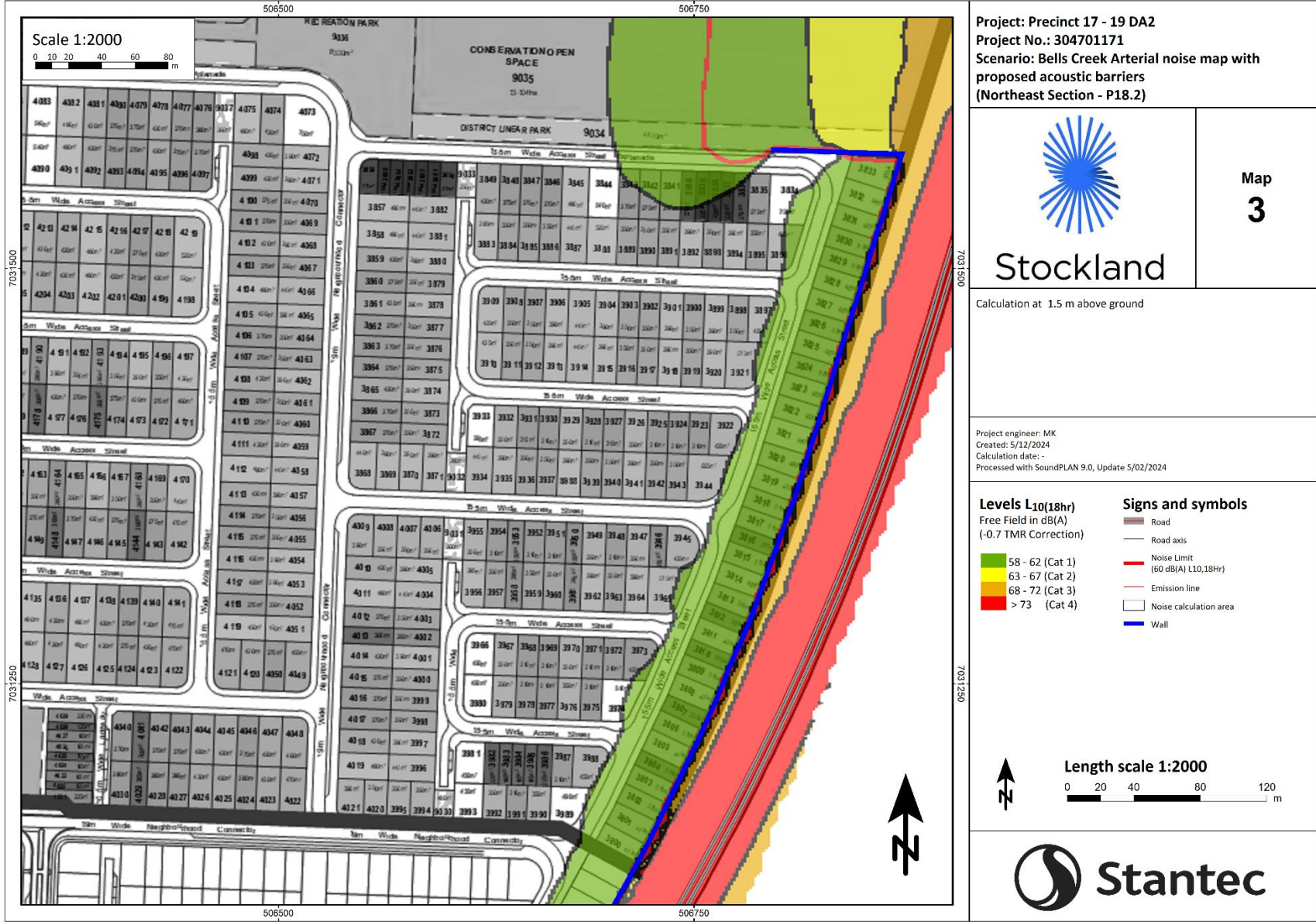
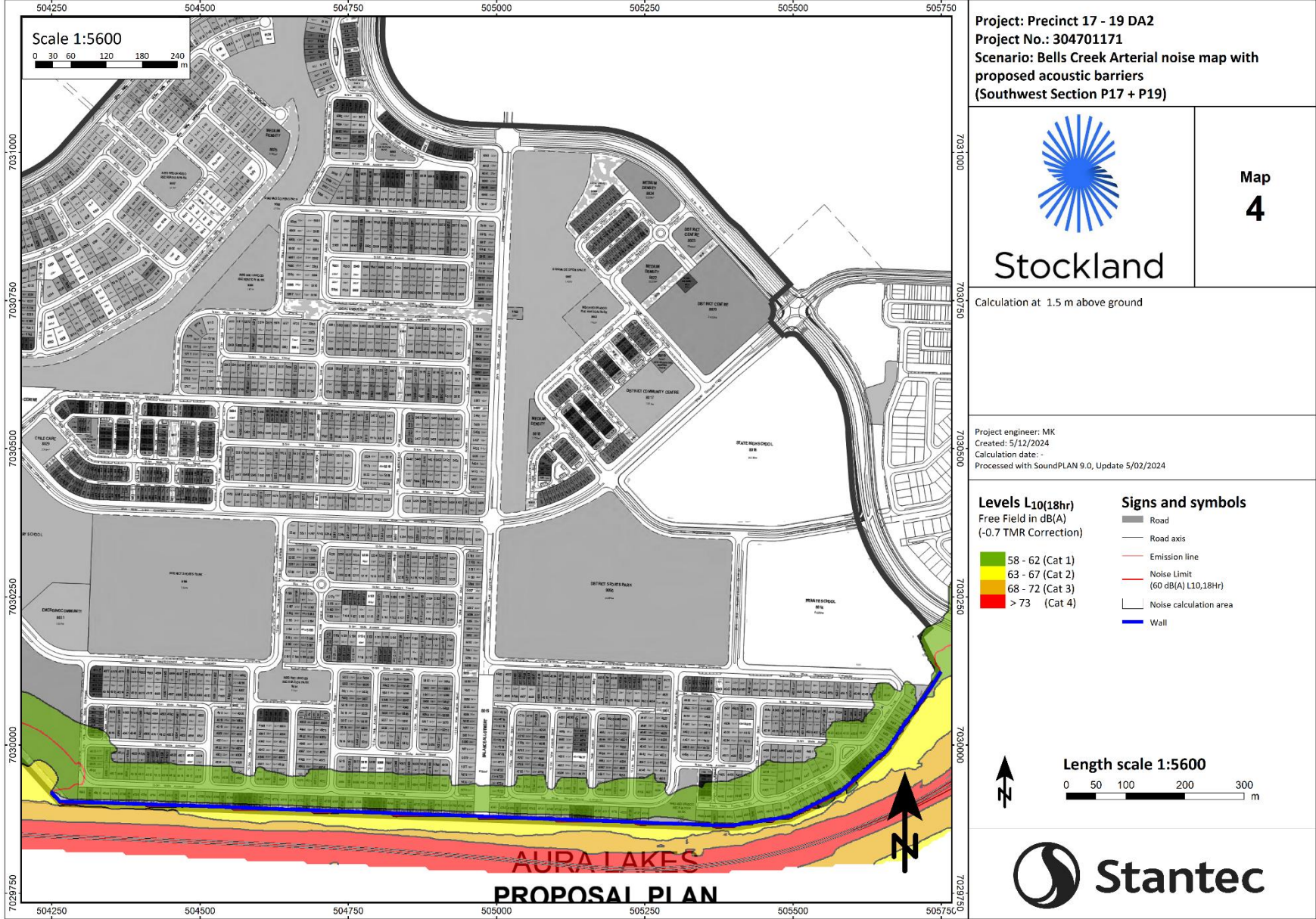


Figure 7: BCA Road free field noise levels with proposed noise barriers (Southwest Section)



Compliance with SDAP outdoor free field noise levels is predicted on the basis that the acoustic barriers recommended in **Section 5.1.4** are implemented.

5.1.5 Road Traffic Noise Levels at Future Residential Lots – Bells Creek Arterial Road Only

The acoustic model was used to calculate the façade corrected $L_{10(18hr)}$ noise levels at ground (1.8m) and first floor levels (4.6m) from Bells Creek Arterial Road only. As per the assessment matrix provided in **Table 8** any lot affected by ≥ 58 dB(A) façade corrected noise levels from a State-controlled Road shall be assessed in accordance with QDC MP4.4. Shielding provided by the recommended acoustic barriers in **Section 5.1.4** has been accounted for in these modelling scenarios.

The results of the calculations are provided in **Figure 8**, **Figure 9**, **Figure 10**, and **Figure 11** with individual lot noise levels included in **Appendix D**.



Figure 8: BCA Road façade corrected noise levels with proposed noise barriers at ground floor (Northeast Section)

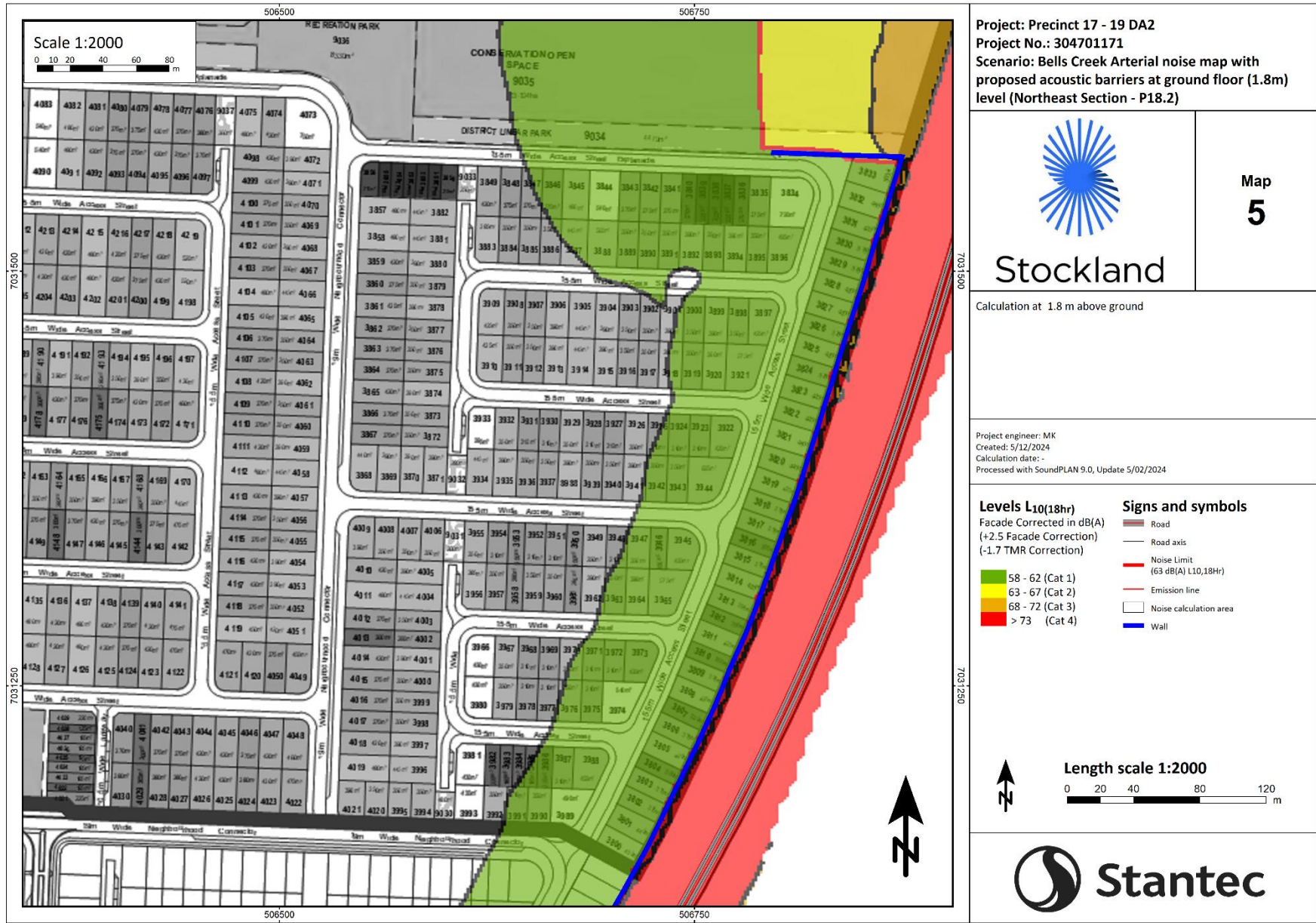


Figure 9: BCA Road façade corrected noise levels with proposed noise barriers at ground floor (Southwest Section)

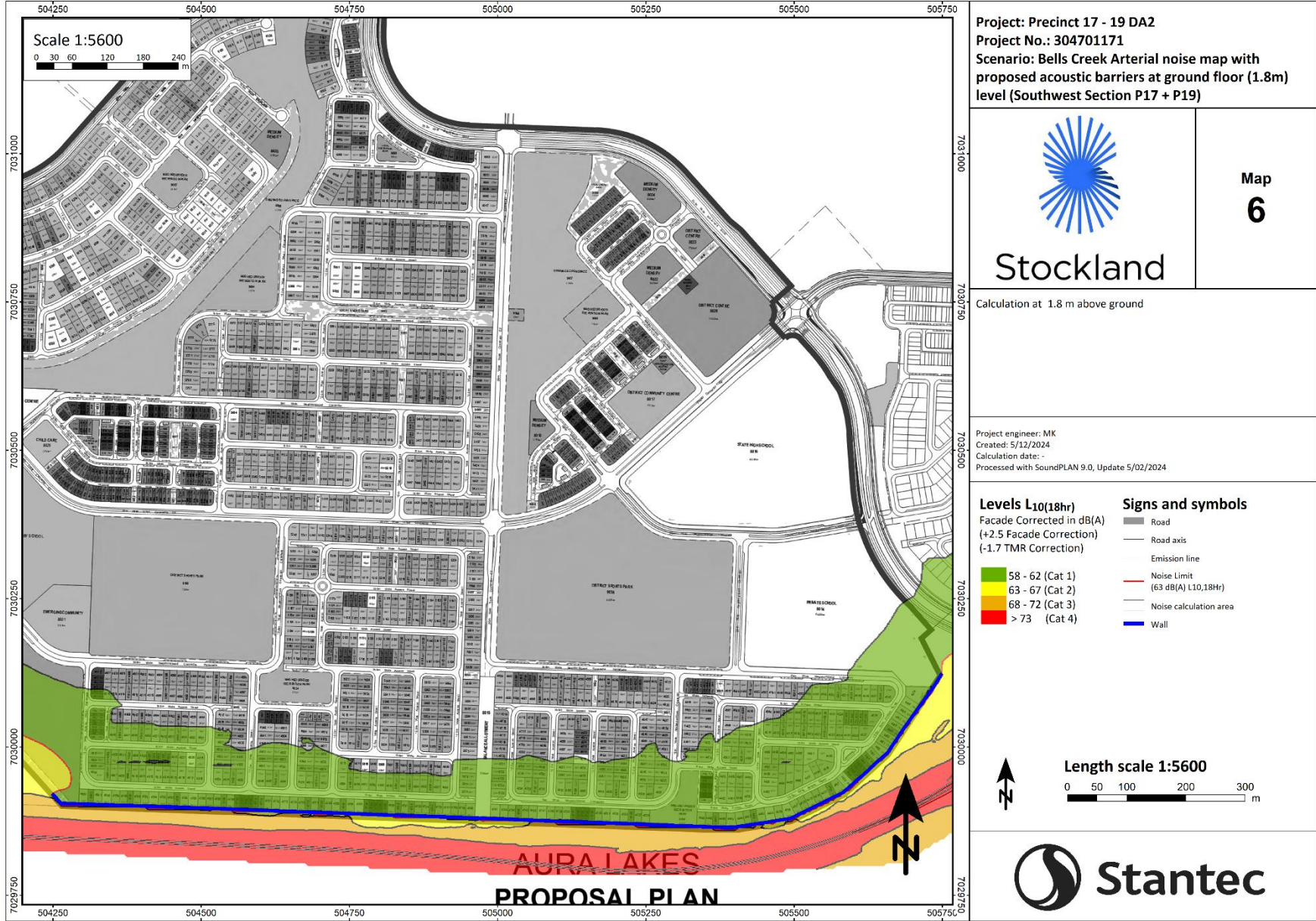


Figure 10: BCA Road façade corrected noise levels with proposed noise barriers at first floor (Northeast Section)

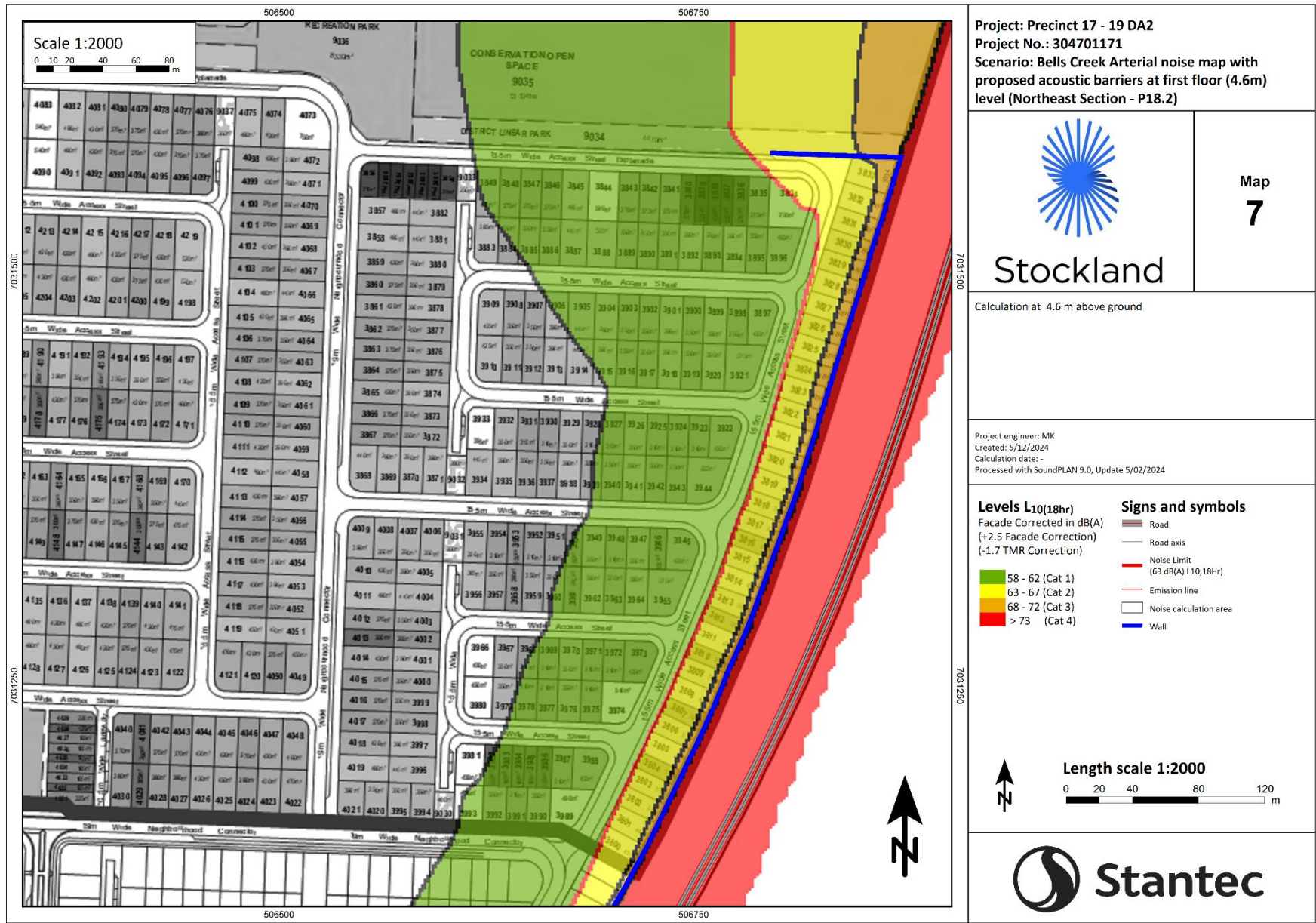
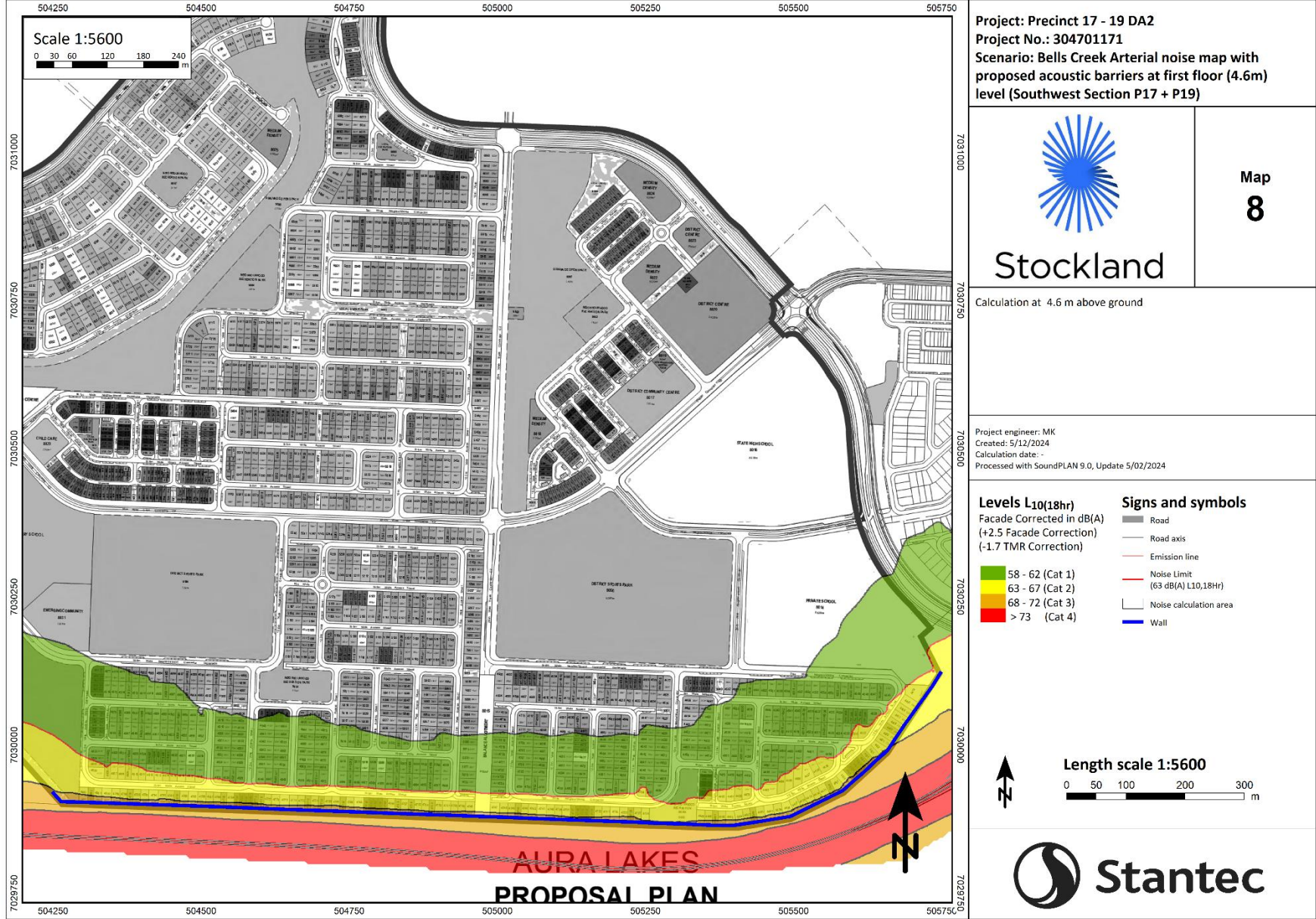


Figure 11: BCA Road façade corrected noise levels with proposed noise barriers at first floor (Southwest Section)



5.1.6 Recommended Acoustic Barriers for Internal Roads

The main sub-arterial and collector roads proposed for the development were modelled to determine locations where acoustic treatments is required to comply with the Sunshine Coast Council $L_{10,18hr}$ 63 dB(A) façade corrected noise limit. Residential lots predicted to exceed the limit at ground level are recommended to be provided with acoustic barriers to reduce the extent of acoustic façade treatments for new homes.

The exception to this is for medium density and terrace lots which Stockland's has advised will typically utilise active frontages to improve the streetscape. For these lots it is preferred to attenuate road traffic noise through building façade treatments rather than acoustic barriers, therefore, noise barriers have not been modelled at these locations.

The recommended acoustic barriers are marked up on **Figure 12**, **Figure 13**, **Figure 14** and **Figure 15**

Figure 12: Proposed internal road acoustic barriers (Northeast Section)



Figure 13: Proposed internal road acoustic barriers (Southwest Section - Overall)

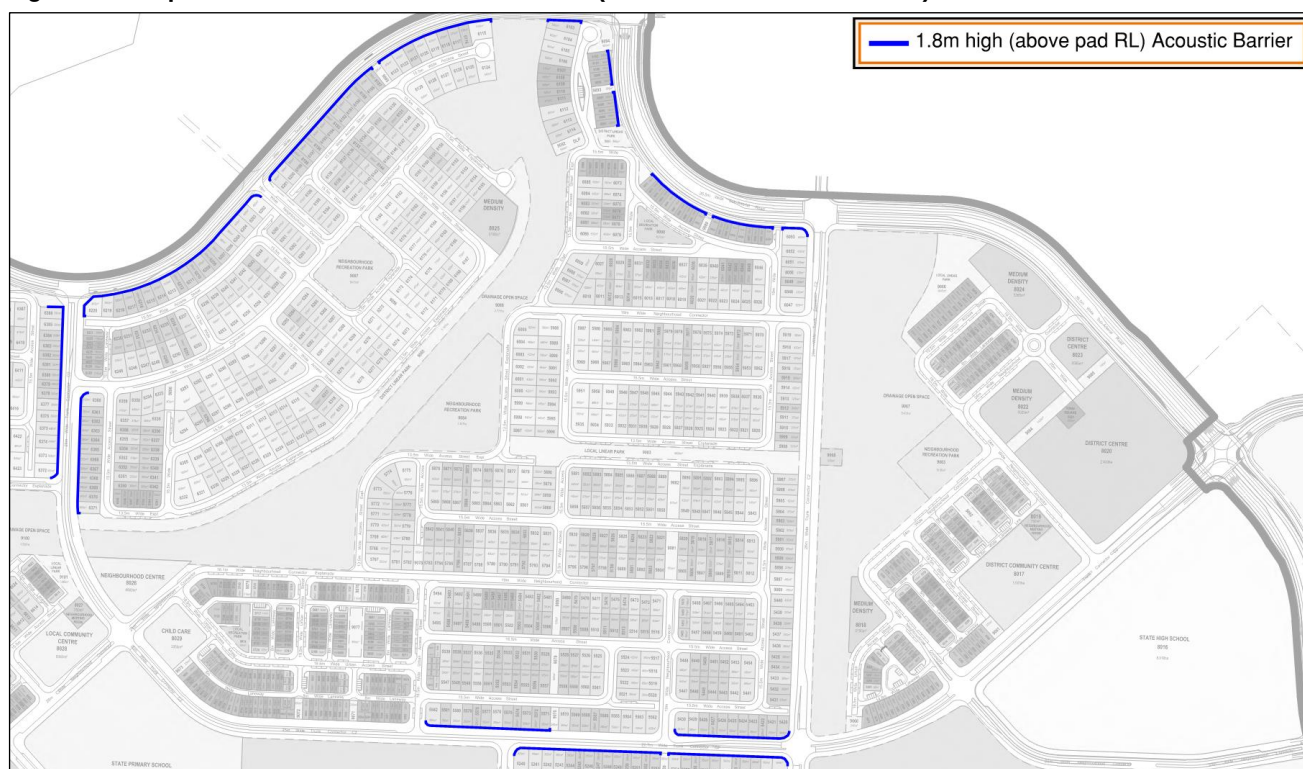
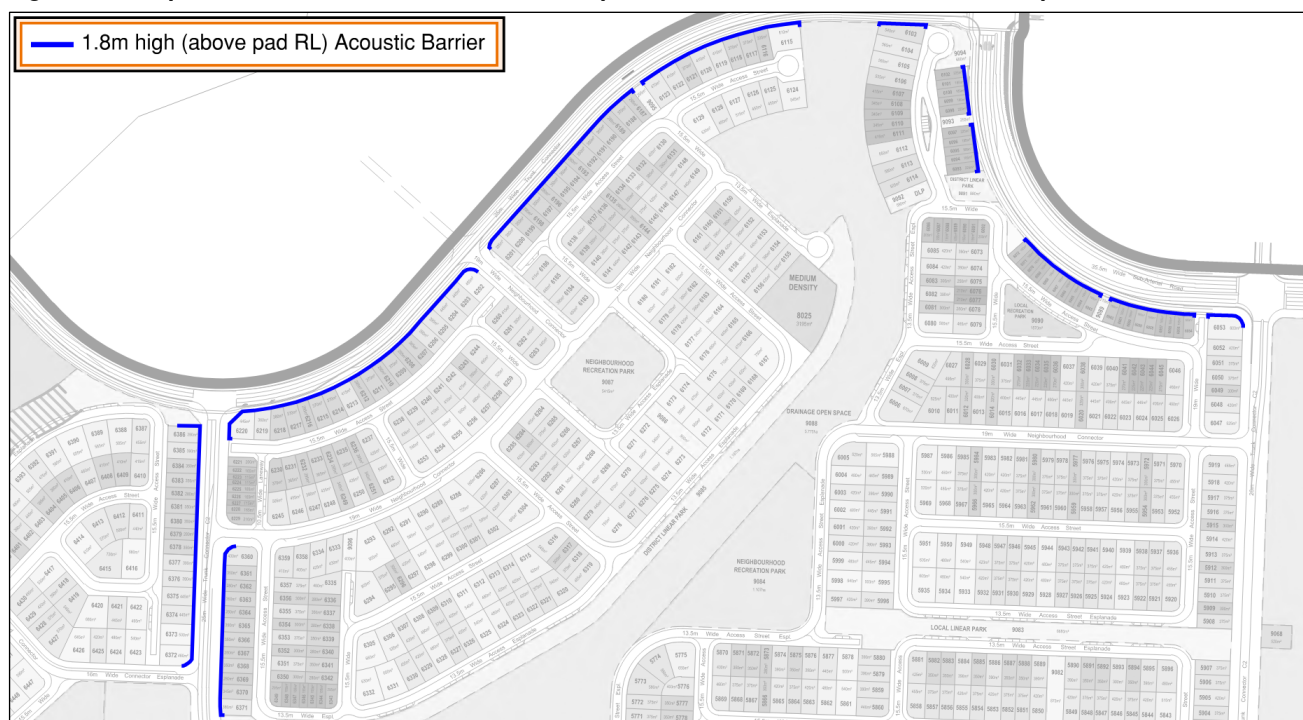


Figure 14: Proposed internal road acoustic barriers (Southwest Section - Southern Barriers)



Figure 15: Proposed internal road acoustic barriers (Southwest Section - Northern Barriers)



5.1.7 Road Traffic Noise Levels at Future Residential Lots – Bells Creek Arterial Road and Internal Roads

The acoustic model was used to calculate the façade corrected $L_{10(18hr)}$ noise levels at ground (1.8m) and first floor levels (4.6m) from both Bells Creek Arterial Road and the proposed internal roads. Shielding provided by the recommended acoustic barriers along Bells Creek Arterial Road (refer to **Section 5.1.4**) and internal roads (refer to **Section 5.1.6**) has been accounted for in the modelling scenarios.

Calculation results are provided as follows:

- Ground level: **Figure 16** through to **Figure 20**.
- First floor: **Figure 21** through to **Figure 25**.

A summary of noise impacts to all residential lots which require assessment in accordance with QDC MP4.4 or AS3671 is available in **Appendix D**. QDC MP4.4 minimum R_w ratings for each building component and construction types are provided in **Appendix E**.

Figure 16: BCA and internal roads - façade corrected noise levels with proposed noise barriers at ground floor (Northeast Section)

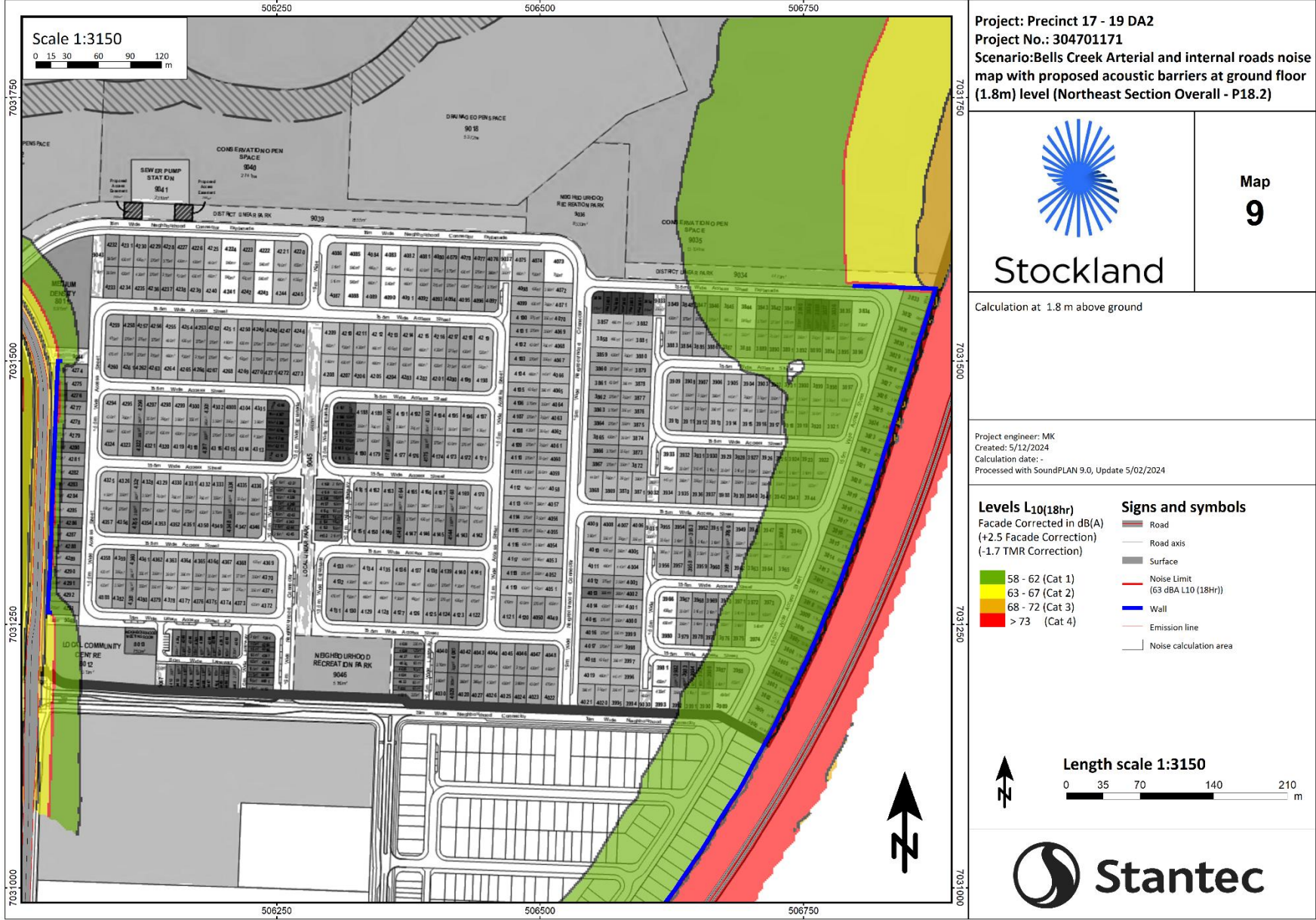


Figure 17: BCA and internal roads - façade corrected noise levels with proposed noise barriers at ground floor (Southwest Section - Overall)

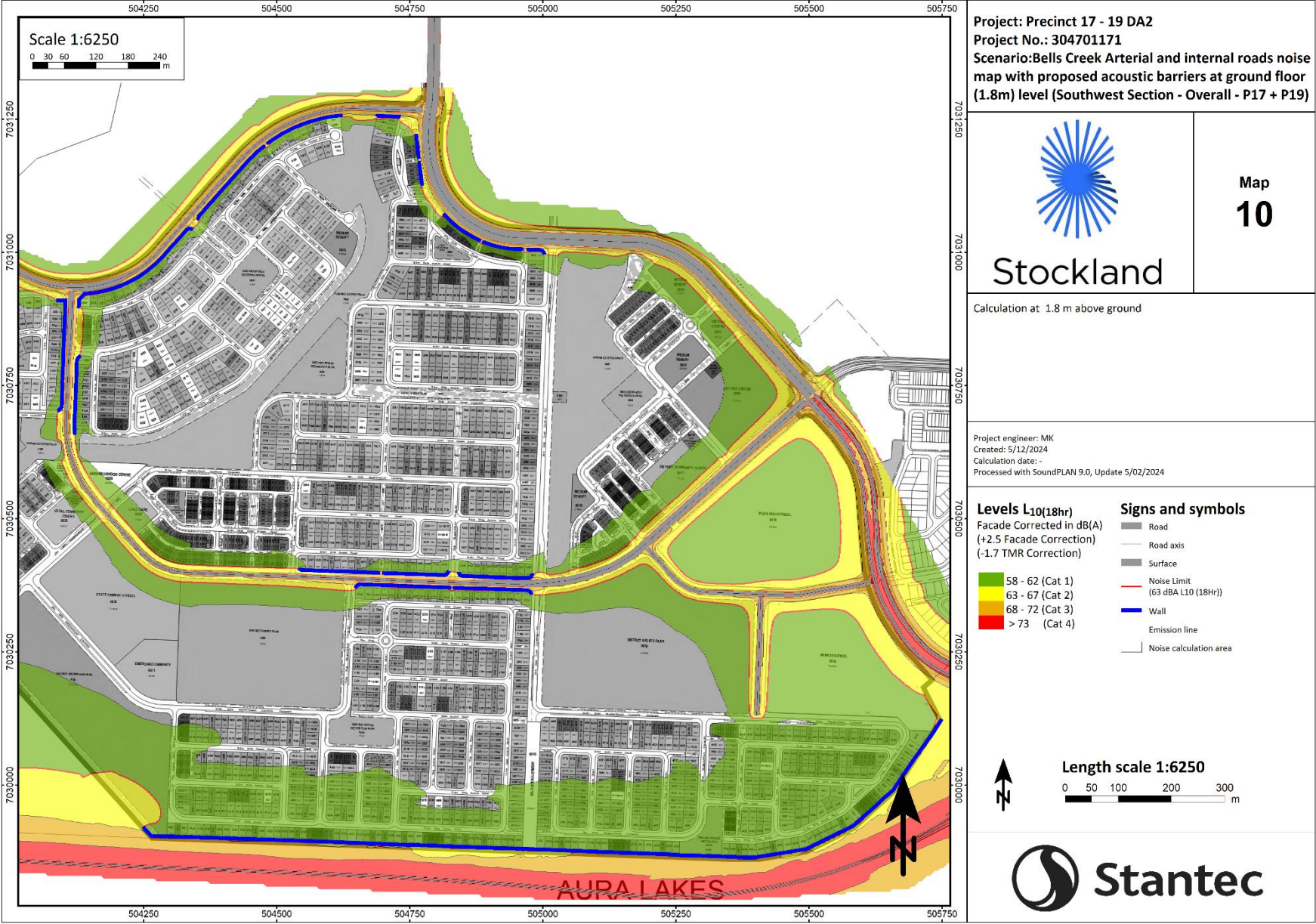


Figure 18: BCA and internal roads façade corrected noise levels with proposed noise barriers at ground floor (Southwest Section - Southern Barriers)

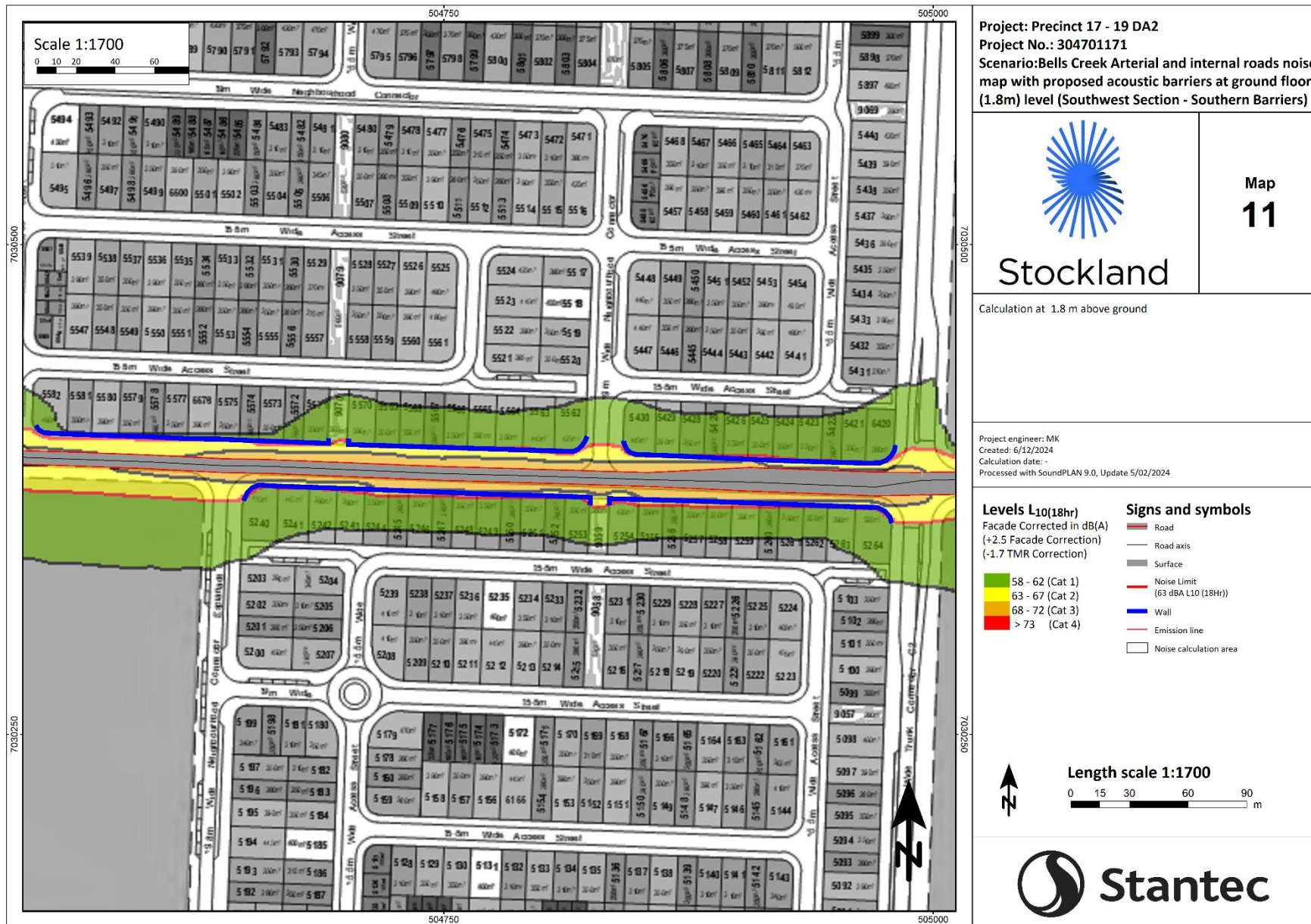


Figure 19: BCA and internal roads façade corrected noise levels with proposed noise barriers at ground floor (Southwest Section - Northwest Barriers)

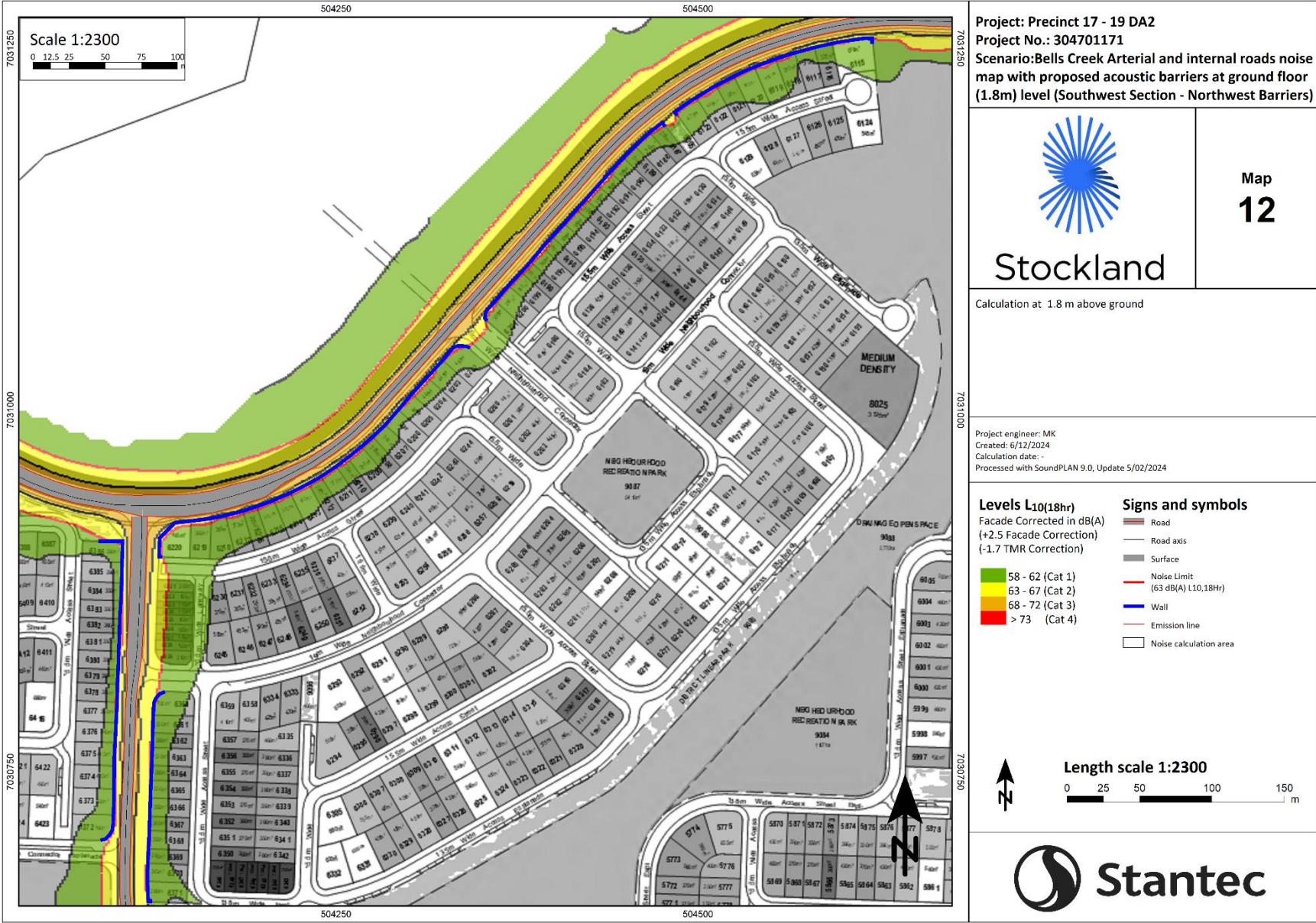


Figure 20: BCA and internal roads façade corrected noise levels with proposed noise barriers at ground floor (Southwest Section - Northeast Barriers)

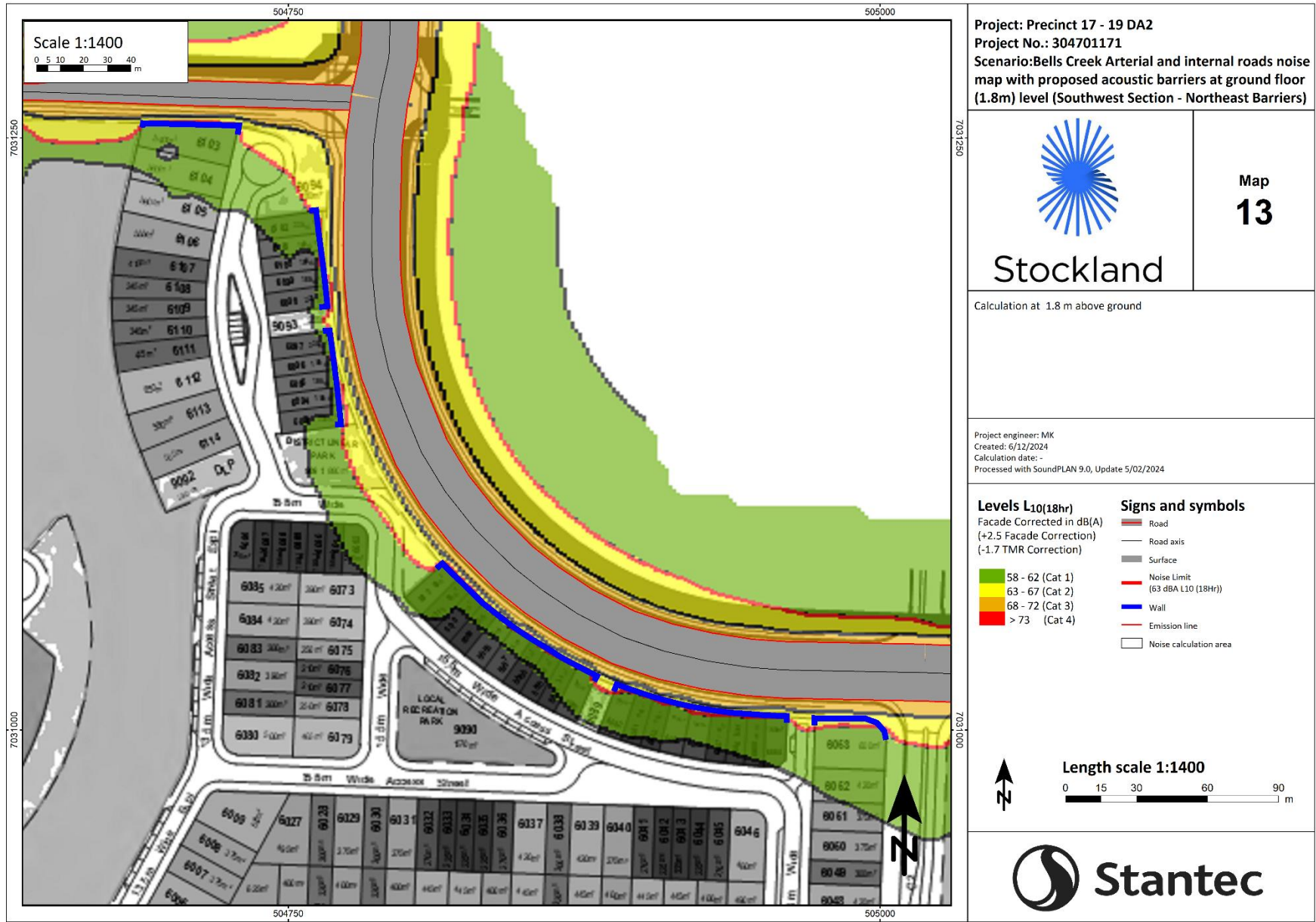


Figure 21: BCA and internal roads façade corrected noise levels with proposed noise barriers at first floor (Northeast Section)

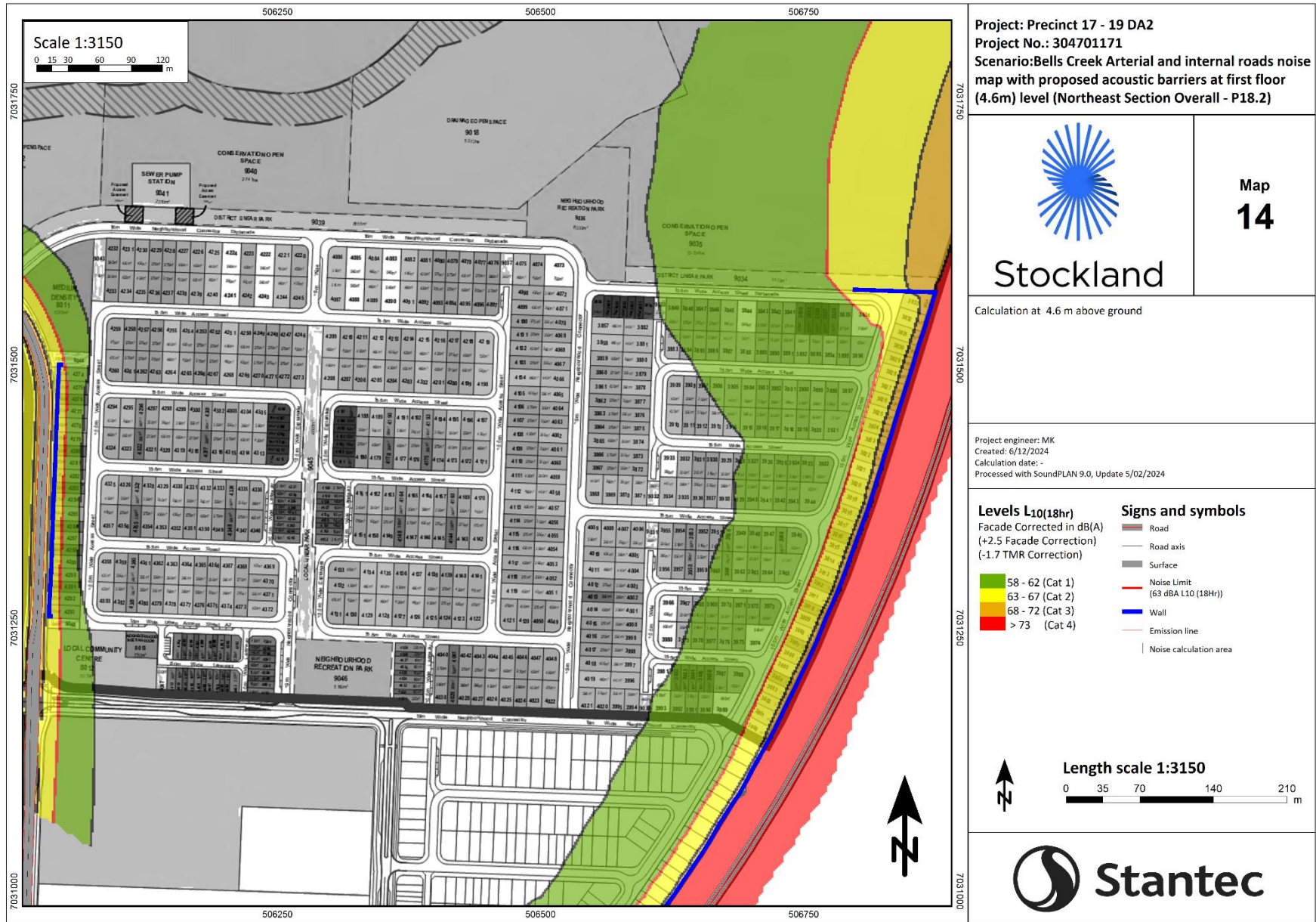


Figure 22: BCA and internal roads façade corrected noise levels with proposed noise barriers at first floor (Southwest Section - Overall)

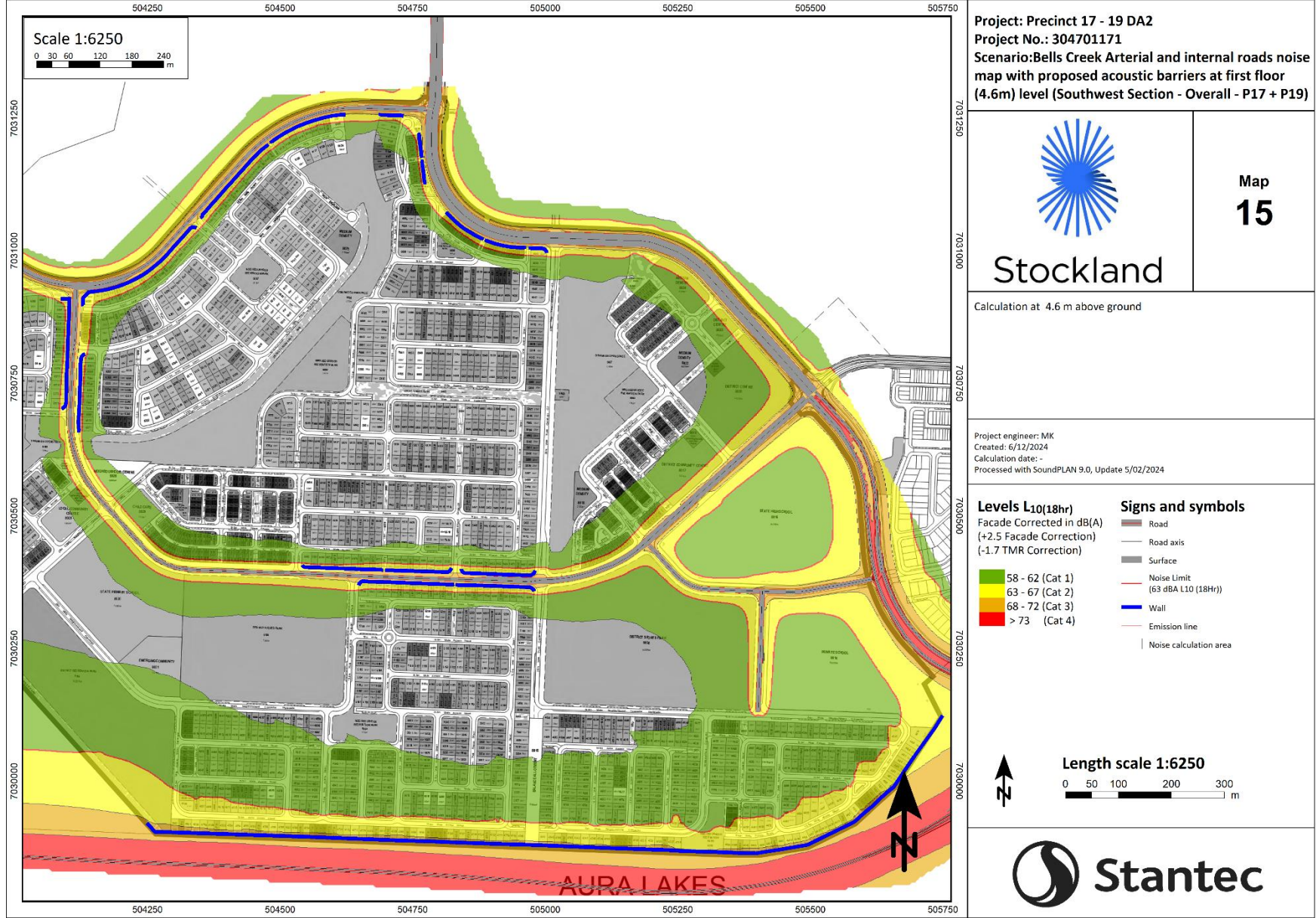


Figure 23: BCA and internal roads façade corrected noise levels with proposed noise barriers at first floor (Southwest Section - Southern Barriers)

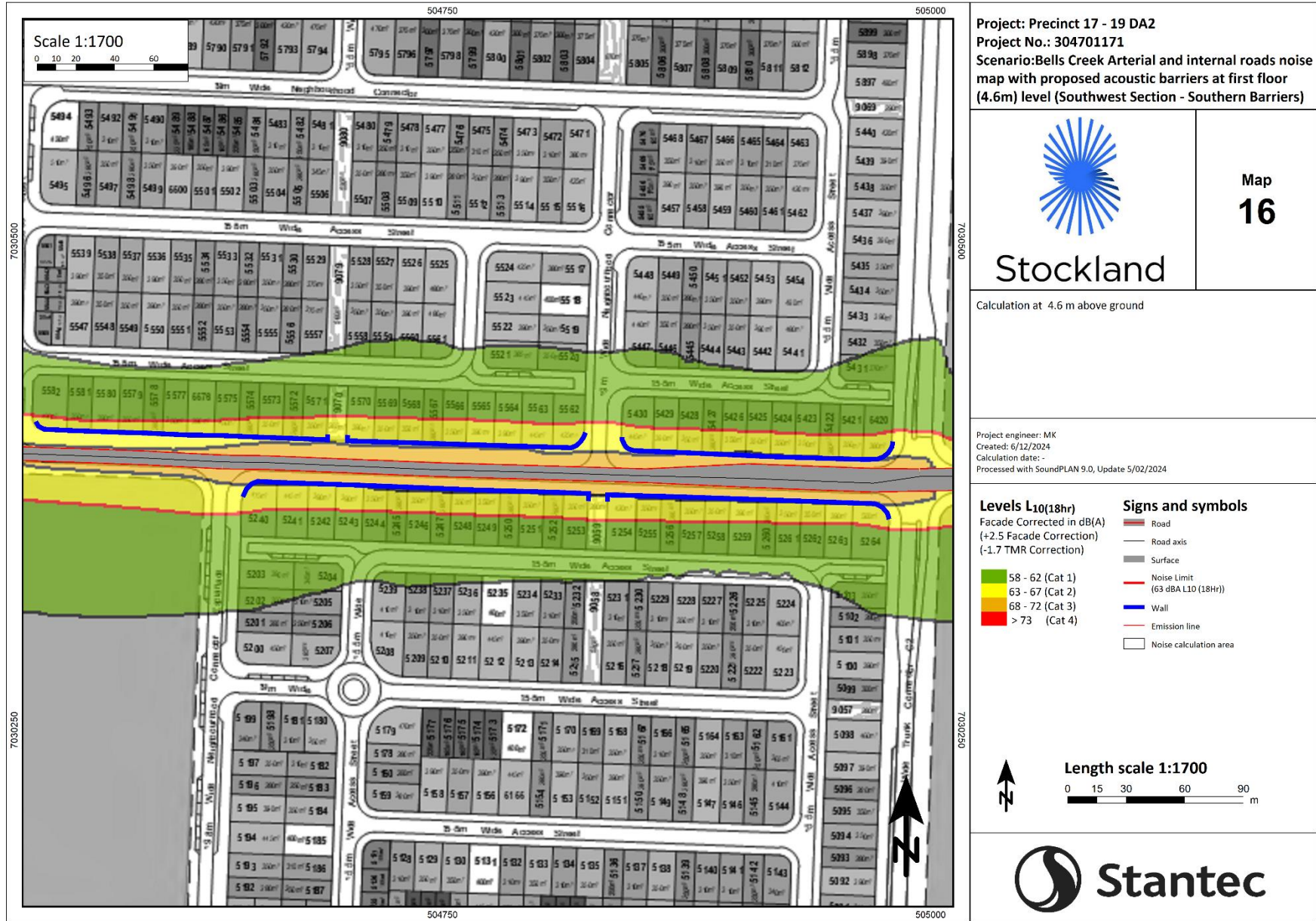


Figure 24: BCA and internal roads façade corrected noise levels with proposed noise barriers at first floor (Southwest Section - Northwest Barriers)

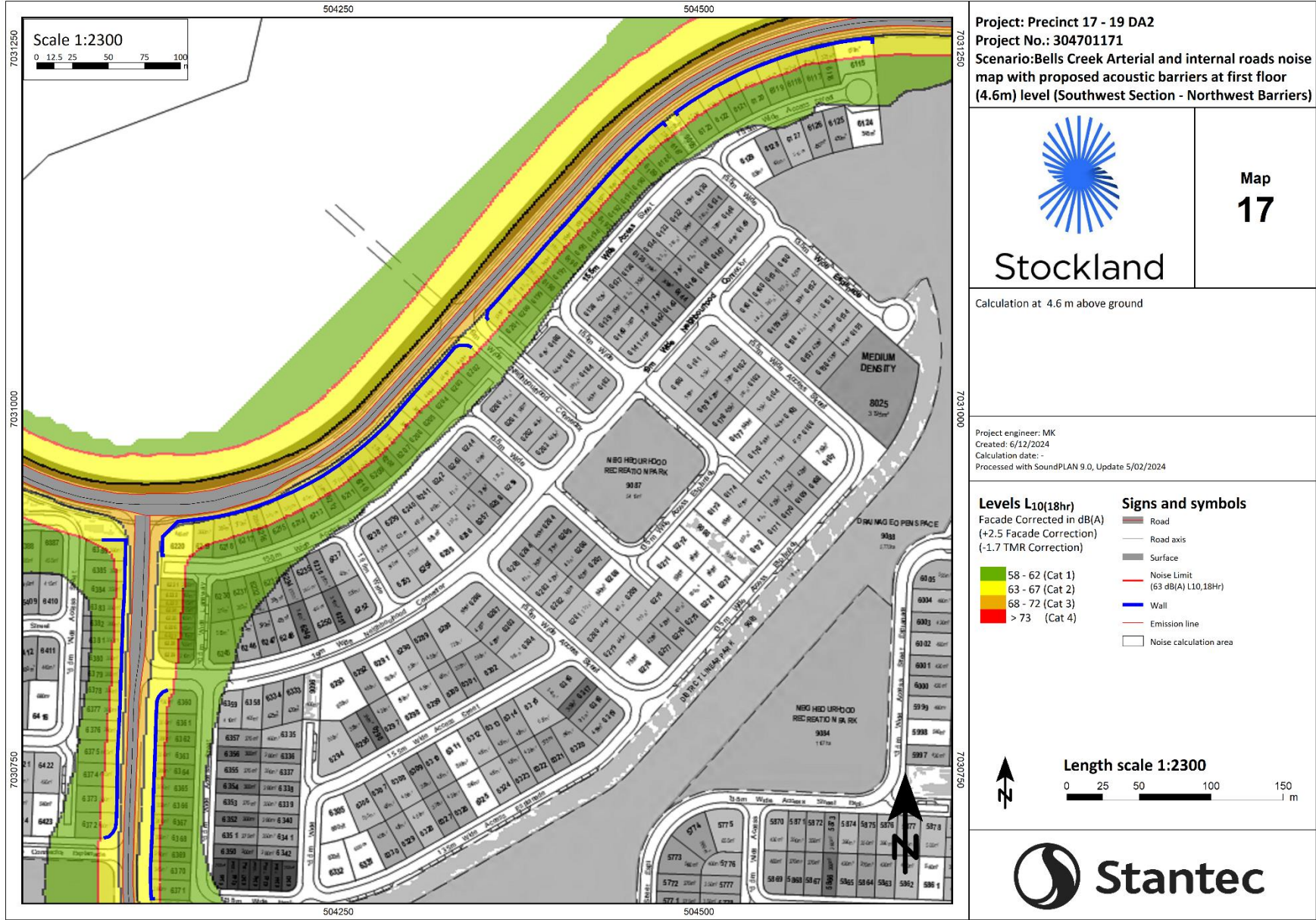
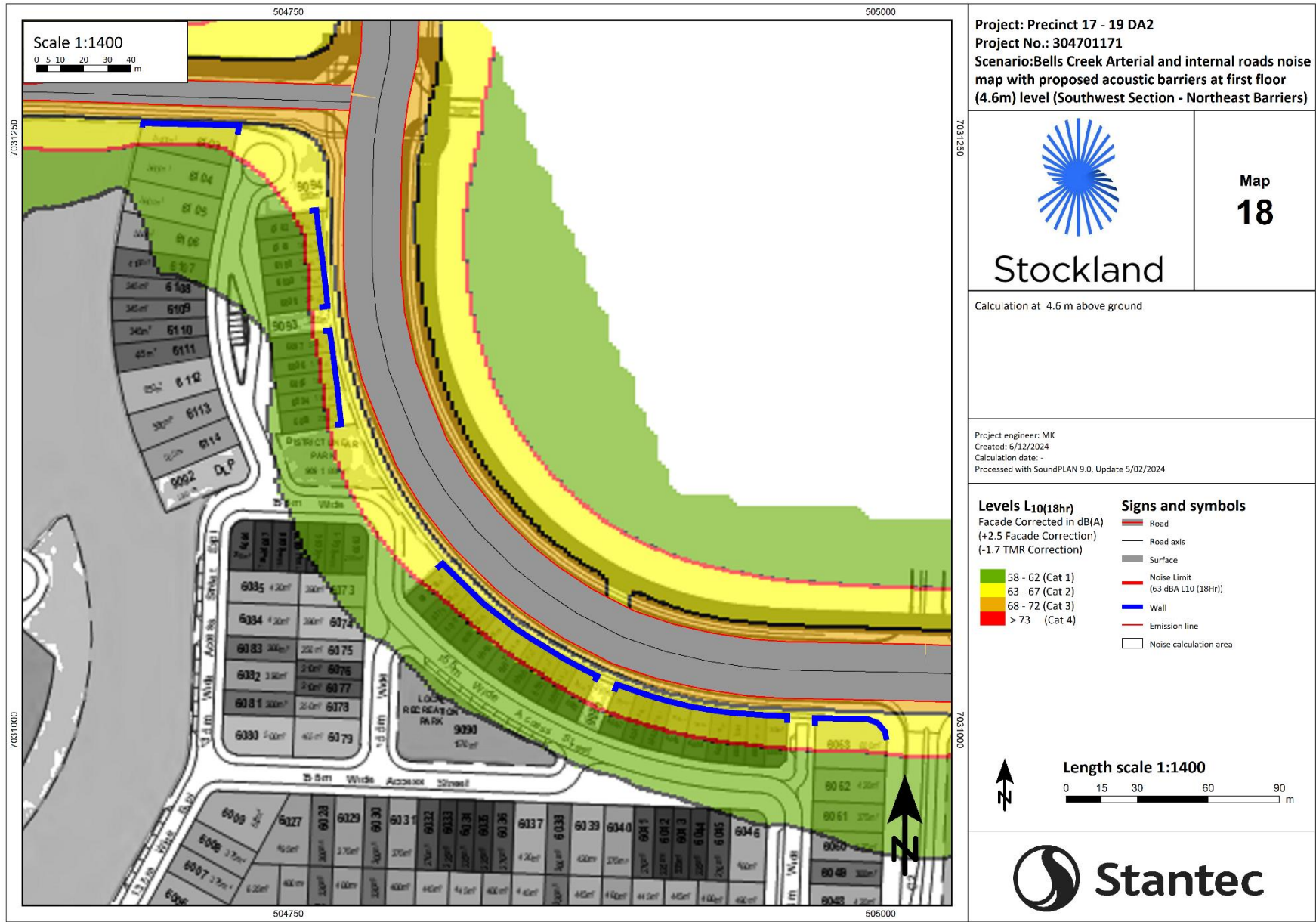


Figure 25: BCA and internal roads façade corrected noise levels with proposed noise barriers at first floor (Southwest Section - Northeast Barriers)



5.1.8 Road Traffic Noise Levels for Non-residential Lots

The development includes multiple non-residential lots including schools, community and district centres. Preliminary criteria based on the SDAP and CoP 2013 (refer to **Section 4.1.5**) and predicted noise impacts are provided in **Table 12**.

Table 12: Non-residential Lot Road Traffic Noise Levels

Lot	Use	Criteria		Façade corrected L10,1hr dB(A) ¹⁾		Free field L10,12hr dB(A) ²⁾
		Façade corrected L10,1hr dB(A)	Free field L10,12hr dB(A)	Ground	Level 1	Ground
8012	Local Community Centre	58	63	65	67	62
8013	Neighbourhood Meeting Room			58	59	55
8014	Private School			68	70	65
8016	State High School			68	69	64
8017	District Community Centre			62	63	59
8019	Neighbourhood Meeting Room			61	61	57
8020	District Centre			67	68	64
8021	Town Square			61	62	58
8023	District Centre			66	67	63
8026	Neighbourhood Centre			61	63	58
8027	Neighbourhood Meeting Room			65	67	62
8028	Local Community Centre			64	66	61
8029	Child Care			65	66	62
8030	State Primary School			66	67	63
8031	Emerging Community			60	61	57

Notes:

1) Includes +3dB adjustment to calculated $L_{A10,18hr}$ level. Adjustment is based on the difference in noise levels between CoRTN $L_{A10,18hr}$ and CoRTN $L_{A10,1hr}$ calculation methodology on the assumption that the worst-case hour will carry 10% of total AADT vehicles.

2) Includes +1.4 dB adjustment to the calculated $L_{A10,18hr}$ noise level. ²

Based on the results, the non-residential lots are predicted to exceed the façade criteria and should make allowances for further acoustic assessment during individual lot development applications.

² Brown, R. and Brown, H. (2016) 'A re-examination of the relationship between the L10(18hour) noise level parameter and other road traffic noise level parameters' *Proceedings of Acoustics 2016*, DOI: [ACOUSTICS2016-130-Review Paper](https://doi.org/10.1017/ACOUSTICS2016-130-Review-Paper).



School lots 8014 and 8016 are also predicted to exceed the outdoor free-field criteria. Preliminary solutions to reduce noise at outdoor areas include acoustic barriers, using buildings for screening and placing outdoor recreational areas away from major roads.

5.2 Barrier Construction Requirements

5.2.1 State-Controlled Roads

Acoustic barriers or earth mounds required to address noise from State Controlled Roads (refer to **Section 5.1.4**) must be constructed in accordance with:

- Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013;
- Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019;
- Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020.

5.2.2 Council Roads

General construction recommendations for the acoustic barriers used to reduce noise from council roads (refer to **Section 5.1.6**) are provided below:

- Construct of a solid material with a min. surface mass of 10 kg/m² and no gaps or holes. Approved products include:
 - lapped kiln-dried softwood timber palings (min. 19 mm thick and overlapped by at least 15 mm);
 - 9 mm fibre cement sheet;
 - concrete blockwork or brick; or
 - an approved modular wall system (e.g., Wallmark, Poly-Tek, Modular Walls).

Other materials may be used provided they are solid without gaps or holes and achieve the minimum surface mass requirement.

5.3 Building Envelope Construction Requirements

5.3.1 QDC MP4.4 Assessment

QDC MP4.4 has been applied to all residential lots where the predicted noise level from only State controlled roads was ≥58dB(A) façade corrected. Lots requiring treatment in accordance with QDC MP4.4 are listed in **Appendix D**.

5.3.2 Council AS2107 / AS3671 Assessment

Residential lots which exceed the council criteria (63 dB(A) L_{10,18hr} façade corrected) are to be assessed in accordance with AS3671 to achieve the AS2107 internal noise criteria provided in **Section 4.1.4**. Lots requiring treatment in accordance with AS3671 are listed in **Appendix D**.



6. Conclusion

Stantec Australia Pty Ltd (Stantec) have been engaged by Stockland Development Pty Ltd to undertake a noise impact assessment for the development application stage (DA) of the proposed Aura Precincts 17 - 19 located on Lot 3/SP333886.

This acoustic report has:

- outlined the acoustic services scope of works for the project;
- established relevant acoustic criteria in accordance with current Legislation, Regulations, Council Policies, Australian Standards and Design Guidelines;
- provided recommendations for acoustic barriers to comply with State or Council requirements; and
- identified key acoustic issues that are to be addressed by the project during subsequent design stages.

We trust that this report to be sufficient for your current requirements; however, should you have any queries, please do not hesitate to contact the undersigned on (07) 3029 5000.

Regards,



Marcus Kamppi (Author)
Acoustic Consultant for **Stantec**



Michael Lanchester (Reviewer)
Acoustics Section Manager (QLD) for **Stantec**





Appendices

Appendix A Glossary of Acoustic Terms

TERM	DEFINITION
Attenuation	A reduction in the magnitude of sound.
A-weighting	A frequency dependent filter applied to an instrument-measured noise. In its simplest form, the filter is designed to replicate the relative sensitivity to loudness perceived by the human ear.
Barrier	Solid walls or partitions, solid fences, earth mounds, earth berms, buildings, etc. used to reduce noise.
dB	The abbreviation for decibel.
dB(A)	A-weighted sound level in decibels.
Free Field	An environment in which there are no acoustic reflective surfaces. Free field noise measurements are carried out outdoors at least 3.5 m from any acoustic reflecting structures other than the ground.
LA1	The A-weighted sound pressure level exceeded for 1 % of the measurement time period.
LA10	The A-weighted sound pressure level exceeded for 10 % of the measurement time period.
LAeq	The equivalent continuous sound pressure level in dB(A). It is often accompanied by an additional suffix "T", which is indicative of the measurement time period. (e.g. LAeq,15min, symbolising the measurement is evaluated over 15-minutes).
LAmx	The maximum A-weighted sound pressure level recorded over the measurement period.
Reverberation	The persistence of a sound within a space, which will naturally decay over time. Most apparent once the source signal has ceased emitting. Reverberation may have effects on speech intelligibility if not adequately controlled. Reverberation time, represented in seconds, can vary depending on the volume and surface finishes of the space.
Rw	Weighted sound reduction index. A single number value which represents the airborne sound insulation performance of a partition or building element that has been determined under laboratory testing conditions.
Sound Power Level	The total sound energy radiated by a source, expressed in Watts. The sound power level is ten times the logarithm to the base 10 of the ratio of the sound power of the source to the reference sound power.
Sound Pressure Level	The measured acoustic wave strength in a given environment and at a particular point of interest where the total sound level expressed is relative to a reference pressure, i.e. the threshold of human hearing. Sound pressure level is typically measured using a standard sound level meter with a microphone, expressed in decibels (dB).

Appendix B Site Layout



Legend

- Application Boundary
- Adjoining Approval - DEV2023/1458
- Lifestyle Buffer
- Access Easement

Land Uses

- Town Square
- District Centre
- Neighbourhood Centre
- Neighbourhood Meeting Room
- District Community Centre
- Local Community Centre
- State High School
- State Primary School
- Emerging Community
- Private School
- Child Care
- Medium Density
- Conservation Open Space
- Drainage Open Space
- District Sports Park
- District Recreation Park
- District Linear Park
- Neighbourhood Recreation Park
- Local Recreation Park
- Local Linear Park
- Embellishment (Road Reserve)
- Sewer Pump Station
- Balance Allotment

Lot Type

Other

- Urban Warehouse - 12m x 14m
- Fonzie Front - 8m x 25m
- Fonzie Back (Micro Unit) - 4.7m x 11.5m
- Urban Mini Micro - 4.5m x 12m
- Urban Loft Type A - 8.5m x 12m
- Urban Loft Type B - 8.2m x 12m
- Urban Loft Type C - 8.3m x 12m
- Urban Loft Type D - 7.5m x 12m
- Urban Loft Type E - 8.5m x 12m
- Bower Type A - 6.5m x 15m
- Bower Type B - 8.5m x 15m
- Bower Type C - 6.5m x 15m

16.5m Deep

- Rear Loaded Laneway Terrace - 4.6m Wide
- Rear Loaded Laneway Terrace - 6.6m Wide
- Rear Loaded Laneway Terrace - 6.6m+ Wide (Ends)

21m Deep

- Rear Loaded Laneway Terrace - 4.6m Wide
- Rear Loaded Laneway Terrace - 6.6m Wide
- Rear Loaded Laneway Terrace - 6.6m+ Wide (Ends)
- Front Loaded Terrace - 7.5m Wide
- Front Loaded Terrace - 9m+ Wide (Ends)

25m Deep

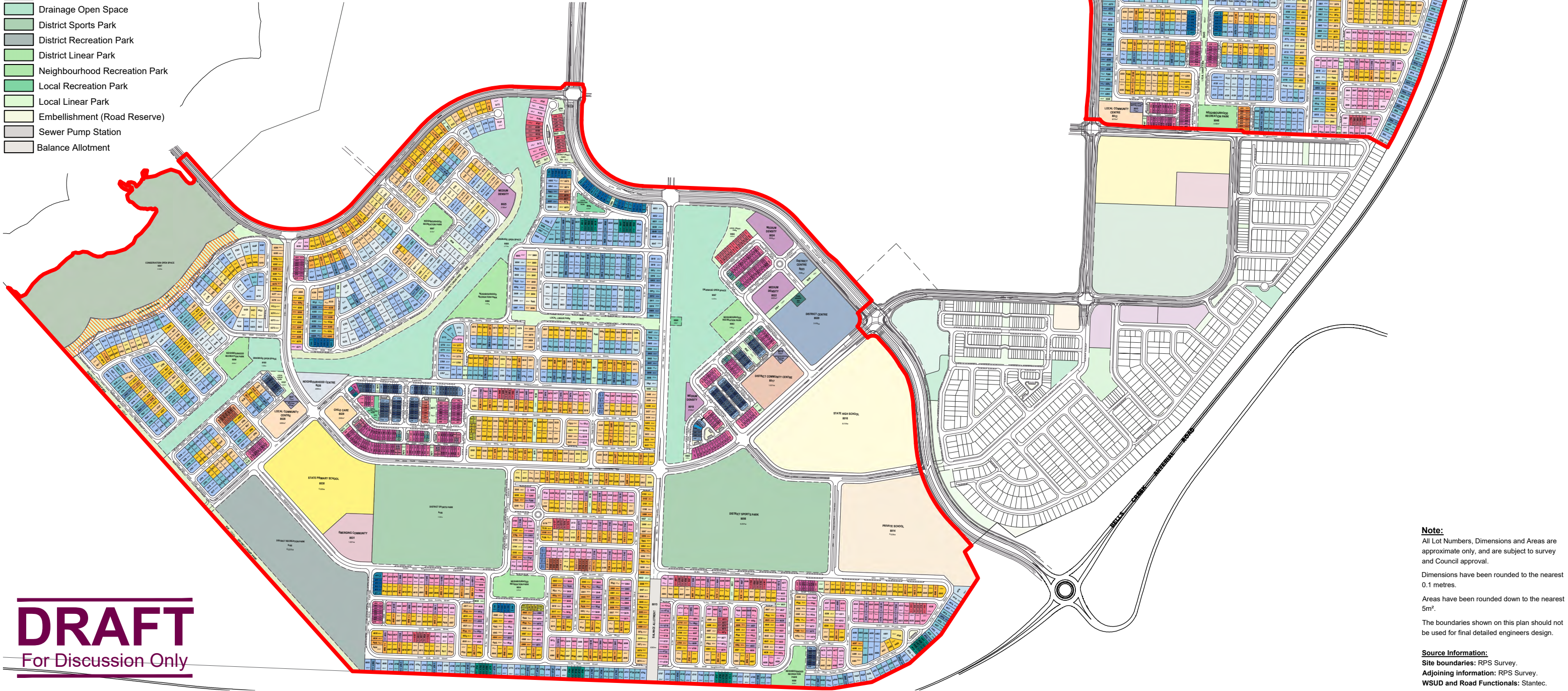
- Rear Loaded Laneway Terrace - 4.6m Wide
- Rear Loaded Laneway Terrace - 6.6m Wide
- Rear Loaded Laneway Terrace - 6.6m+ Wide (Ends)
- Front Loaded Terrace - 7.5m Wide
- Front Loaded Terrace - 9m+ Wide (Ends)
- Villa - 10m Wide
- Premium Villa - 12.5m Wide
- Courtyard - 14m Wide
- Traditional - 16m Wide
- Premium Traditional - 18m Wide

28m Deep

- Rear Loaded Laneway Terrace - 4.6m Wide
- Rear Loaded Laneway Terrace - 6.6m Wide
- Rear Loaded Laneway Terrace - 6.6m+ Wide (Ends)
- Front Loaded Terrace - 7.5m Wide
- Front Loaded Terrace - 9m+ Wide (Ends)
- Villa - 10m Wide
- Premium Villa - 12.5m Wide
- Courtyard - 14m Wide
- Traditional - 16m Wide
- Premium Traditional - 18m Wide

30m Deep

- Front Loaded Terrace - 7.5m Wide
- Front Loaded Terrace - 9m+ Wide (Ends)
- Villa - 10m Wide
- Premium Villa - 12.5m Wide
- Courtyard - 14m Wide
- Traditional - 16m Wide
- Premium Traditional - 18m Wide



DRAFT
For Discussion Only

PLAN REF: AU12885 – 53
Rev No: C
DATE: 26 NOVEMBER 2024
SHEET: 1 OF 15
DRAWN BY: JC
CHECKED BY: MD



0 90 180 270 360 450 1 : 9,000 @ A3

AURA LAKES
PROPOSAL PLAN
PRECINCT 17 (PART), PRECINCT 18 (PART) & PRECINCT 19



URBAN DESIGN
Level 8
31 Duncan Street
PO Box 1559
Fortitude Valley QLD 4006
T +61 7 3539 9500
W rpsgroup.com



Note:
All Lot Numbers, Dimensions and Areas are approximate only, and are subject to survey and Council approval.

Dimensions have been rounded to the nearest 0.1 metres.

Areas have been rounded down to the nearest 5m².

The boundaries shown on this plan should not be used for final detailed engineers design.

Source Information:
Site boundaries: RPS Survey.
Adjoining information: RPS Survey.
WSUD and Road Functionals: Stantec.

Appendix C Noise Modelling Details

A three-dimensional computer model of the study area was created within SoundPLAN 9.0 software. The following inputs were utilised:

- **Lot receptor locations** – As the exact building footprints within the lots have not been finalised at this stage of the assessment, the receivers were positioned approximately at the centre of the proposed lot to provide an overview of the potential impact to the lot.
- **Lot receptor heights** – Receptor heights were set to 1.8m for ground floor and 4.6m for first floor in accordance with TMR CoP 2013.
- **Source heights** – Road noise assumed source height of 0.5m.
- **Noise map calculations** – Noise contour maps were calculated as free-field noise levels, 1.5 m, 1.8m and 4.6m above ground level with 5m resolution. TMR corrections were applied to all maps with 1.8m and 4.6m maps also including façade correction.
- **Calculation algorithms** – Road traffic noise was calculated using SoundPLAN implementation of the UK Department of Transport Welsh Office *Calculation of Road Traffic Noise* 1988 (CoRTN), which is accepted by TMR CoP 2013.
- **Ground surface corrections** – Road surfaces are calculated as hard ground (no absorption) with 60% ground absorption applied to represent a mix of hard and soft surfaces throughout the development.
- **Sound reflections** – A reflection order of 3 was used.
- **Façade correction** - +2.5dB(A) façade correction applied for non-free field calculations.
- **TMR corrections** - -1.7 dB(A) façade and -0.7dB(A) free-field CoRTN calibration factors for all Queensland roads (other than the Pacific Motorway from Logan Motorway to Nerang) in accordance with Table 4.3.2.1 of TMR CoP 2013.
- **Terrain**: A triangulated irregular network (TIN) model provided by Stantec (refer to **Table 2**) was used to calculate the final ground levels of the site.
- **Road alignments**: Roads were digitised following the alignment shown on georeferenced photography imported into SoundPLAN and / or the proposed lot layout plan provided by RPS (refer to **Table 2**).
- **Road surface corrections**: All roads within the model have been modelled as dense graded asphalt with 0 dB(A) correction applied in accordance with Table 4.3.4.1 of TMR CoP 2013.
- **Conversion factors applied for different road noise parameters**: $L_{A10,12hr} \approx L_{A10,18hr} + 1.4 \text{ dB(A)}$ ³.
- **Road traffic parameters**: Road traffic volumes were obtained from the 'Aura Precinct 17 – 19 Traffic Modelling Refresh' traffic report completed by Price Waterhouse Coopers and dated June 2024. The traffic volumes digitised in the computer model are presented in **Table 13** with road segments marked up on **Figure 26**. Road speeds and heavy vehicle percentages are based on existing assumptions previously applied for Aura Precinct 18.

³ Brown, R. and Brown, H. (2016) 'A re-examination of the relationship between the L10(18hour) noise level parameter and other road traffic noise level parameters' *Proceedings of Acoustics 2016*, DOI: [ACOUSTICS2016-130-Review Paper](#).



Table 13: Traffic volumes utilised for modelling

Label	Road	Source: PWC Report		Assumed	
		AADT	18-hour Traffic	Heavy Vehicles (%)	Speed (km/hr)
A1	Bells Creek Arterial – east of roundabout and northeast bound.	23,144	21,755	4	100
A2	Bells Creek Arterial – east of roundabout and southwest bound.	29,772	27,985	4	100
A3	Bells Creek Arterial – west of roundabout and east bound.	21,687	20,385	4	100
A4	Bells Creek Arterial – west of roundabout and west bound.	24,239	22,784	4	100
A5	Bells Creek Arterial on ramp (east side)	5,077	4,772	4	60
A6	Bells Creek Arterial off ramp (west side)	3,619	3,402	4	60
B1	Sub-arterial road (refer to Figure 26 for location)	7,662	7,202	4	60
B2	Sub-arterial road (refer to Figure 26 for location)	8,256	7,760	4	60
B3	Sub-arterial road (refer to Figure 26 for location)	8,256	7,760	4	60
B4	Sub-arterial road (refer to Figure 26 for location)	11,770	11,064	4	60
B5	Sub-arterial road (refer to Figure 26 for location)	8,140	7,652	4	60
B6	Sub-arterial road (refer to Figure 26 for location)	8,140	7,652	4	60
B7	Sub-arterial road (refer to Figure 26 for location)	6,254	5,878	4	60
B8	Sub-arterial road (refer to Figure 26 for location)	5,539	5,206	4	60
B9	Sub-arterial road (refer to Figure 26 for location)	5,621	5,284	4	60
B10	Sub-arterial road (refer to Figure 26 for location)	7,161	6,731	4	60
B11	Sub-arterial road (refer to Figure 26 for location)	8,338	7,838	4	60
B12	Sub-arterial road (refer to Figure 26 for location)	13,222	12,429	4	60
C1	Connector road (refer to Figure 26 for location)	6,947	6,530	3	60
C2	Connector road (refer to Figure 26 for location)	5,665	5,325	3	60
C3	Connector road (refer to Figure 26 for location)	2,860	2,688	3	60
C4	Connector road (refer to Figure 26 for location)	5,935	5,578	3	60



Label	Road	Source: PWC Report		Assumed	
		AADT	18-hour Traffic	Heavy Vehicles (%)	Speed (km/hr)
C5	Connector road (refer to Figure 26 for location)	3,911	3,676	3	60
C6	Connector road (refer to Figure 26 for location)	3,773	3,547	3	60
C7	Connector road (refer to Figure 26 for location)	4,285	4,027	3	60
C8	Connector road (refer to Figure 26 for location)	4,279	4,022	3	60
C9	Connector road (refer to Figure 26 for location)	4,587	4,312	3	60
C10	Connector road (refer to Figure 26 for location)	5,940	5,584	3	60
C11	Connector road (refer to Figure 26 for location)	5,379	5,056	3	60
C12	Connector road (refer to Figure 26 for location)	7,068	6,643	3	60
C13	Connector road (refer to Figure 26 for location)	6,276	5,899	3	60
C14	Connector road (refer to Figure 26 for location)	3,328	3,128	3	60
C15	Connector road (refer to Figure 26 for location)	2,948	2,771	3	60
C16	Connector road (refer to Figure 26 for location)	5,154	4,844	3	60
C17	Connector road (refer to Figure 26 for location)	4,235	3,981	3	60
C18	Connector road (refer to Figure 26 for location)	3,900	3,666	3	60



Figure 26: Markup of road segments



Appendix D Residential Lot Predicted Noise Levels

Table 14 provides the noise levels for all lots which require assessment under QDC MP4.4 or AS3671. Lots which did not trigger QDC MP4.4 or AS3671 assessment have been excluded.

Table 14: Future Road Noise Traffic Predictions

Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
3800	8.11	61	66	Yes	Yes	62	66	QDC Noise Category 1	QDC Noise Category 2
3801	8	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3802	7.94	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3803	7.87	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3804	7.82	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3805	7.76	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3806	7.7	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3807	7.63	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3808	7.53	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3809	7.48	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3810	7.43	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
3811	7.37	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3812	7.31	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3813	7.3	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3814	7.3	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3815	7.29	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3816	7.24	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3817	7.18	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
3818	7.12	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3819	7.07	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
3820	7.19	61	67	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
3821	7.12	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
3822	7.05	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3823	7	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3824	7.06	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3825	7.05	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3826	6.99	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3827	6.93	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3828	6.86	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3829	6.8	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3830	6.68	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3831	6.67	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3832	6.65	62	69	Yes	Yes	62	69	QDC Noise Category 1	QDC Noise Category 3
3833	6.65	61	69	Yes	Yes	61	69	QDC Noise Category 1	QDC Noise Category 3
3834	6.68	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
3835	6.65	59	62	Yes	Yes	59	62	QDC Noise Category 1	QDC Noise Category 1
3836	6.56	59	61	Yes	Yes	59	62	QDC Noise Category 1	QDC Noise Category 1
3837	6.56	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3838	6.56	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
3839	6.56	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
3840	6.56	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
3841	6.55	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
3842	6.55	60	60	Yes	Yes	60	60	QDC Noise Category 1	QDC Noise Category 1
3843	6.5	59	60	Yes	Yes	60	60	QDC Noise Category 1	QDC Noise Category 1
3844	6.45	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3845	6.45	59	59	Yes	Yes	59	59	QDC Noise Category 1	QDC Noise Category 1
3846	6.41	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3847	6.35	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3848	6.35	58	58	Yes	Yes	58	58	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
3849	6.34	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
3850	6.25	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3883	6.6	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3884	6.61	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3885	6.61	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
3886	6.67	58	58	Yes	Yes	58	58	QDC Noise Category 1	QDC Noise Category 1
3887	6.71	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3888	7.01	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3889	7.01	59	59	Yes	Yes	59	59	QDC Noise Category 1	QDC Noise Category 1
3890	7.01	59	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3891	7	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3892	6.92	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
3893	6.88	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
3894	6.81	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3895	6.72	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3896	6.65	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
3897	6.76	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
3898	6.87	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3899	7.04	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3900	7.05	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
3901	7.05	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3902	7	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3903	6.94	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3904	6.95	58	58	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3905	6.93	58	58	Yes	Yes	58	58	QDC Noise Category 1	QDC Noise Category 1
3906	6.74	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3907	6.74	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A)		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A)		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		State-Controlled Roads Only		Ground	Level 1	All Roads		Ground	Level 1
		Ground	Level 1			Ground	Level 1		
3908	6.7	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3913	7.01	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3914	7.1	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3915	7.1	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3916	7.11	57	58	No	Yes	57	59	No assessment required	QDC Noise Category 1
3917	7.11	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3918	7.1	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3919	7.1	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3920	7.11	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3921	6.76	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3922	6.77	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3923	6.84	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3924	6.84	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
3925	6.84	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3926	6.83	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3927	7.13	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3928	7.14	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3929	7.1	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3938	6.72	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3939	6.72	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3940	6.73	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
3941	6.76	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3942	6.8	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3943	6.81	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3944	6.81	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3945	6.84	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3946	6.87	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
3947	6.82	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3948	6.74	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3949	6.74	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
3950	6.76	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3951	6.74	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3959	7	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3960	7	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3961	6.95	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3962	7.01	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3963	7.2	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3964	7.2	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3965	7.3	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3967	7.36	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3968	7.34	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3969	7.34	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
3970	7.35	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3971	7.34	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3972	7.34	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3973	7.37	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3974	7.7	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
3975	7.35	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3976	7.3	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3977	7.29	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3978	7.26	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
3979	7.22	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3981	7.31	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
3982	7.37	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
3983	7.37	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3984	7.4	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3985	7.74	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3986	7.76	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3987	7.74	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3988	7.73	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3989	7.9	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
3990	8.07	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
3991	8.06	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3992	8.06	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
3993	8.07	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4274	7.53	51	52	No	No	57	63	No assessment required	AS3671
4275	7.52	51	52	No	No	58	63	No assessment required	AS3671
4276	7.5	51	52	No	No	58	63	No assessment required	AS3671
4277	7.5	51	52	No	No	58	63	No assessment required	AS3671
4278	7.6	51	52	No	No	58	63	No assessment required	AS3671
4279	7.5	51	52	No	No	58	63	No assessment required	AS3671
4280	7.5	51	52	No	No	58	64	No assessment required	AS3671
4281	7.53	51	52	No	No	58	63	No assessment required	AS3671
4282	7.58	51	52	No	No	58	63	No assessment required	AS3671
4283	7.6	51	52	No	No	58	63	No assessment required	AS3671
4284	7.64	51	52	No	No	58	63	No assessment required	AS3671
4285	7.66	52	52	No	No	58	63	No assessment required	AS3671
4286	7.68	52	52	No	No	58	63	No assessment required	AS3671
4287	7.7	52	52	No	No	58	64	No assessment required	AS3671
4288	7.7	52	52	No	No	58	63	No assessment required	AS3671
4289	7.68	52	52	No	No	58	63	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4290	7.68	52	52	No	No	57	63	No assessment required	AS3671
4291	7.88	52	52	No	No	58	63	No assessment required	AS3671
4292	7.9	52	52	No	No	58	63	No assessment required	AS3671
4293	7.9	52	52	No	No	60	64	No assessment required	AS3671
4414	15.08	60	65	Yes	Yes	61	65	QDC Noise Category 1	QDC Noise Category 2
4415	15.46	61	65	Yes	Yes	62	66	QDC Noise Category 1	QDC Noise Category 2
4416	15.7	61	66	Yes	Yes	62	66	QDC Noise Category 1	QDC Noise Category 2
4417	15.96	61	66	Yes	Yes	62	66	QDC Noise Category 1	QDC Noise Category 2
4418	16.17	61	66	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4419	16.5	61	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4420	16.62	62	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4421	16.88	62	67	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4422	16.97	61	67	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4423	17.2	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
4424	17.71	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4425	17.8	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4426	18.07	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4427	18.3	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4428	18.59	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4429	18.69	61	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
4430	19.4	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4431	19.7	61	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4432	19.94	61	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4433	20.14	61	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4434	20.33	61	67	Yes	Yes	62	67	QDC Noise Category 1	QDC Noise Category 3
4435	20.55	61	67	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4436	20.78	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A)		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A)		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		State-Controlled Roads Only		Ground	Level 1	All Roads		Ground	Level 1
		Ground	Level 1			Ground	Level 1		
4437	21.02	62	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4438	21.21	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4439	21.42	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4440	21.64	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4441	21.69	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4442	21.84	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4443	21.77	61	68	Yes	Yes	62	68	QDC Noise Category 1	QDC Noise Category 3
4444	21.71	61	68	Yes	Yes	61	69	QDC Noise Category 1	QDC Noise Category 3
4445	21.65	61	68	Yes	Yes	61	69	QDC Noise Category 1	QDC Noise Category 3
4446	21.6	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4447	21.53	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4448	21.49	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4449	21.43	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4450	20.79	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4451	20.57	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4452	20.41	60	62	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4453	20.22	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4454	20.06	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4455	19.9	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4456	19.73	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4457	19.56	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4458	19.34	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4459	18.6	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4460	18.52	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4461	17.73	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4462	17.38	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4463	16.86	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4464	16.49	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4467	17.48	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4468	17.72	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4469	18.04	58	58	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4470	18.53	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4471	18.9	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4472	19.39	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4473	20.04	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4474	20.2	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4475	19.8	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4476	19.8	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4477	19.98	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4478	19.98	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4479	21.6	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4480	21.51	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4481	21.29	61	64	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4482	21.25	61	64	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4483	21.36	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4484	21.22	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4485	20.79	61	63	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4486	20.5	61	63	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4487	20.23	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4488	20.2	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4489	19.81	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4490	18.23	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4491	18.23	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4492	18.34	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A)		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A)		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		State-Controlled Roads Only		Ground	Level 1	All Roads		Ground	Level 1
		Ground	Level 1			Ground	Level 1		
4493	18.4	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4494	18.5	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4495	18.58	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4496	18.6	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4497	20.19	60	62	Yes	Yes	61	62	QDC Noise Category 1	QDC Noise Category 1
4498	20.52	60	62	Yes	Yes	61	62	QDC Noise Category 1	QDC Noise Category 1
4499	20.96	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4500	19.61	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4501	19.48	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4502	19.5	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4503	19.35	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4504	18.77	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4505	18.24	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4506	17.97	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4507	17.27	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4508	17.15	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4509	17.08	58	58	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4510	17.04	58	58	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4511	17.96	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4512	18.44	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4513	18.89	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4514	18.5	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4515	18.43	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4516	18.32	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4517	18.33	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4518	18.16	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4519	18.01	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4520	18.01	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4521	17.93	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4522	17.58	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4523	17.55	60	62	Yes	Yes	61	62	QDC Noise Category 1	QDC Noise Category 1
4524	17.5	60	62	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4525	17.41	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4526	17.32	61	63	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4527	17.16	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4528	15.74	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4529	15.71	60	62	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4530	15.79	60	62	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4531	15.87	60	62	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4532	15.94	59	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4533	16.03	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4534	16.2	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4535	16.33	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4536	16.38	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4537	16.55	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4538	16.68	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4539	16.72	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4540	16.9	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4541	16.86	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4542	16.87	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4543	16.74	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4544	16.73	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4545	15.56	60	62	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4546	15.62	60	62	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4547	15.75	60	62	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4548	15.83	59	61	Yes	Yes	61	62	QDC Noise Category 1	QDC Noise Category 1
4549	15.9	59	61	Yes	Yes	61	62	QDC Noise Category 1	QDC Noise Category 1
4550	15.9	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4551	16.04	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4552	16.02	59	60	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4553	16.16	59	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4554	16.24	58	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4555	16.33	58	60	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4556	16.42	58	59	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4557	16.48	58	59	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4558	16.45	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4559	16.64	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4560	16.71	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4561	16.79	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4562	16.83	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4563	16.98	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4564	16.93	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4565	17.1	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4566	17.13	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4567	17.2	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4568	16.76	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4569	16.64	57	58	No	Yes	59	60	No assessment required	QDC Noise Category 1
4627	16.77	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4628	17.35	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4629	17.85	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4630	18.09	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A)		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A)		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		State-Controlled Roads Only		Ground	Level 1	All Roads		Ground	Level 1
		Ground	Level 1			Ground	Level 1		
4631	18.59	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4632	19.07	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4633	19.61	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4634	19.98	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4635	20.64	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4636	21.56	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4637	22.2	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4638	22.58	61	63	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4639	21.9	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4640	21.1	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4641	20.67	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4642	20.04	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4643	19.54	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4644	18.88	58	59	Yes	Yes	59	59	QDC Noise Category 1	QDC Noise Category 1
4645	18.53	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4646	18.09	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4647	17.75	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4650	17.79	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4651	18.6	58	58	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4652	18.85	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4653	19.2	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4654	20.06	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4655	20.8	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4656	21.31	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4657	22.34	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4658	22.7	61	63	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4659	22.22	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4660	22.08	60	62	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4661	21.04	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4662	20.73	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4663	19.86	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4664	19.17	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4665	18.41	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4666	18.23	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4667	17.63	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4672	17.9	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4673	18.23	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4674	18.92	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4675	19.57	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4676	19.6	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4677	19.76	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4678	20.4	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4679	21.88	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4680	22.22	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4681	22.3	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4682	22.2	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4683	22.04	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4684	21.39	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4685	20.22	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4686	19.57	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4687	18.97	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4688	18.42	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4689	17.89	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4694	18	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4695	18.7	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4696	19.02	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4697	19.58	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4698	20.07	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4699	20.73	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4700	21.01	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4701	22.11	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4702	21.94	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4703	22	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4704	21.72	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4705	21.19	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4706	20.24	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4707	19.7	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4708	19.37	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4709	19.01	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4710	18.61	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4711	18.09	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4715	17.76	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4716	18.12	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4717	18.68	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4718	19.11	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4719	19.22	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4720	19.61	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4721	20.12	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4722	20.52	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4723	20.98	59	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4724	21.12	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4725	21.4	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4726	22.47	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4727	22.83	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4728	23.17	61	69	Yes	Yes	61	69	QDC Noise Category 1	QDC Noise Category 3
4729	23.2	61	69	Yes	Yes	61	69	QDC Noise Category 1	QDC Noise Category 3
4730	23.1	61	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4731	23.03	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4732	22.94	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4733	22.88	60	67	Yes	Yes	61	67	QDC Noise Category 1	QDC Noise Category 3
4734	22.84	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4735	22.79	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4736	22.74	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4737	22.67	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4738	22.63	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4739	22.56	60	67	Yes	Yes	60	67	QDC Noise Category 1	QDC Noise Category 3
4740	22.47	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4741	22.36	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4742	22.25	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4743	22.19	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4744	22.1	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4745	22.03	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4746	21.96	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4747	21.86	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4748	21.84	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4749	21.9	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4750	21.84	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4751	21.8	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A)		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A)		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		State-Controlled Roads Only		Ground	Level 1	All Roads		Ground	Level 1
		Ground	Level 1			Ground	Level 1		
4752	21.72	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4753	21.64	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4754	21.59	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4755	21.53	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4756	21.47	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4757	21.41	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4758	21.35	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4759	21.32	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4760	21.24	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4761	21.2	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4762	21.16	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4763	21.12	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4764	21.09	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4765	21.05	60	68	Yes	Yes	61	68	QDC Noise Category 1	QDC Noise Category 3
4766	20.94	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4767	20.89	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4768	20.81	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4769	20.8	60	69	Yes	Yes	61	69	QDC Noise Category 1	QDC Noise Category 3
4770	20.71	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4771	20.64	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4772	20.58	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4773	20.54	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4774	20.5	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4775	20.4	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4776	20.47	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4777	20.55	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4778	20.67	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4779	20.7	60	68	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4780	20.77	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4781	20.83	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4782	20.86	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4783	20.94	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4784	21	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4785	21.1	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4786	21.17	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4787	21.24	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4788	21.35	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4789	21.45	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4790	21.55	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4791	21.65	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4792	21.75	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4793	21.8	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4794	21.91	60	68	Yes	Yes	60	68	QDC Noise Category 1	QDC Noise Category 3
4795	22.02	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4796	22.11	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4797	22.2	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4798	22.27	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4799	22.37	60	69	Yes	Yes	60	69	QDC Noise Category 1	QDC Noise Category 3
4800	22.46	60	70	Yes	Yes	60	70	QDC Noise Category 1	QDC Noise Category 3
4801	22.57	61	70	Yes	Yes	61	70	QDC Noise Category 1	QDC Noise Category 3
4802	22.57	61	70	Yes	Yes	61	70	QDC Noise Category 1	QDC Noise Category 3
4803	22.63	61	70	Yes	Yes	61	70	QDC Noise Category 1	QDC Noise Category 3
4804	22.12	62	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4805	21.68	62	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4806	22.1	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4807	22.3	62	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4808	22.21	61	64	Yes	Yes	62	64	QDC Noise Category 1	QDC Noise Category 2
4809	21.92	61	64	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4810	22.11	61	64	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4811	22.07	61	64	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4812	21.73	61	63	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4813	21.7	61	63	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4814	21.61	61	63	Yes	Yes	61	64	QDC Noise Category 1	QDC Noise Category 2
4815	21.54	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4816	21.32	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4817	21.27	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4818	21.2	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4819	19.24	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4820	19.3	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4821	19.38	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4822	19.3	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4823	19.3	58	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4824	19.3	58	61	Yes	Yes	58	61	QDC Noise Category 1	QDC Noise Category 1
4825	19.33	58	61	Yes	Yes	58	61	QDC Noise Category 1	QDC Noise Category 1
4826	19.32	58	61	Yes	Yes	58	61	QDC Noise Category 1	QDC Noise Category 1
4827	19.39	58	61	Yes	Yes	58	61	QDC Noise Category 1	QDC Noise Category 1
4828	19.72	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4829	19.79	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4830	19.84	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4831	19.89	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4832	19.98	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4833	20.61	60	62	Yes	Yes	61	62	QDC Noise Category 1	QDC Noise Category 1
4834	21.4	62	63	Yes	Yes	62	63	QDC Noise Category 1	QDC Noise Category 2
4835	20.6	61	62	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4836	20.08	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4837	19.84	60	61	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4838	19.69	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4839	19.47	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4840	19.32	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4841	18.98	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4842	19.1	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4843	18.75	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4844	18.52	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4845	19.76	60	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4846	19.7	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4847	19.69	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4848	19.6	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4849	19.45	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4850	19.42	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4851	19.33	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4852	19.25	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4853	19.21	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4854	19.01	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4855	19.11	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4856	19.05	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4857	19	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4858	16.2	56	58	No	Yes	57	59	No assessment required	QDC Noise Category 1
4859	16.3	56	58	No	Yes	57	59	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4860	16.4	56	58	No	Yes	57	59	No assessment required	QDC Noise Category 1
4861	16.4	56	58	No	Yes	56	59	No assessment required	QDC Noise Category 1
4862	16.57	56	58	No	Yes	57	59	No assessment required	QDC Noise Category 1
4863	16.6	56	58	No	Yes	57	59	No assessment required	QDC Noise Category 1
4864	16.7	56	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
4865	16.76	56	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
4866	16.81	56	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
4867	16.91	57	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
4868	16.98	57	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
4869	17.04	57	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
4870	18.28	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4871	17.8	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4872	17.71	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4873	17.47	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4874	17.18	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4875	16.94	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4876	16.53	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4877	16.92	58	58	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4878	16.93	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4879	16.81	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4880	16.64	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4881	16.58	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4882	16.46	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4883	16.33	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4884	16.2	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4885	16.01	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4898	16.3	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4899	16.48	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4900	16.71	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4901	16.63	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4902	16.85	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4903	16.94	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4904	17.01	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4905	16.91	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4906	17.11	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4907	17.36	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4908	17.15	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4909	17.48	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4910	17.53	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4911	17.61	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4912	17.68	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4913	17.53	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4914	17.8	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4915	17.83	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4916	17.99	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4917	16.87	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4918	16.97	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4919	18.72	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4920	18.72	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4921	18.4	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4922	18.49	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4923	18.75	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4924	18.64	58	60	Yes	Yes	58	61	QDC Noise Category 1	QDC Noise Category 1
4925	20.9	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4926	20.81	61	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4927	20.54	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4928	20.37	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4929	19.6	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4930	19.07	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4931	18.36	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4932	18.12	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4933	17.75	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4934	17.5	57	59	No	Yes	58	59	No assessment required	QDC Noise Category 1
4935	17.13	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4936	16.83	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4937	16.64	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4938	16.8	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4939	16.94	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
4940	17.46	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4941	17.84	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4942	18.22	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4943	18.82	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4944	19.33	59	60	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4945	19.82	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4946	20.3	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4947	20.29	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4948	20.15	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4949	20.27	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4950	19.7	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4951	19.55	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
4952	19.2	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4953	18.69	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4954	18.51	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4955	18.21	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4956	17.6	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4957	17.5	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4958	17.32	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4959	17.27	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4960	17.38	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4961	17.87	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4962	17.81	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4963	18.09	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4964	18.46	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4965	18.72	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4966	18.25	58	59	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
4967	18.57	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4968	18.8	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4969	19.55	59	61	Yes	Yes	60	61	QDC Noise Category 1	QDC Noise Category 1
4970	20	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4971	20.12	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4972	20.21	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4973	20.35	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4974	20.5	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
4975	18.9	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4976	18.5	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
4977	18.01	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4978	18.72	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
4979	18.06	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
4980	17.7	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
4981	17.2	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4982	17.2	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4983	17.29	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
4984	20.53	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4985	20.48	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4986	20.68	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4987	20.68	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4988	20.78	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4989	20.83	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4990	20.88	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4991	20.9	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4992	21	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4993	21.01	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4994	21.13	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4995	21.19	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4996	21.2	60	63	Yes	Yes	60	63	QDC Noise Category 1	QDC Noise Category 2
4997	21.38	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4998	21.51	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
4999	18.99	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
5000	18.32	57	59	No	Yes	57	60	No assessment required	QDC Noise Category 1
5001	18.16	57	59	No	Yes	57	60	No assessment required	QDC Noise Category 1
5002	17.61	56	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
5003	17.55	56	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
5004	17.55	56	59	No	Yes	57	59	No assessment required	QDC Noise Category 1
5005	17.7	57	59	No	Yes	57	60	No assessment required	QDC Noise Category 1
5006	17.7	56	59	No	Yes	57	60	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
5007	17.83	57	59	No	Yes	57	60	No assessment required	QDC Noise Category 1
5008	18	57	59	No	Yes	58	60	No assessment required	QDC Noise Category 1
5009	18.23	57	60	No	Yes	58	60	No assessment required	QDC Noise Category 1
5010	18.33	57	60	No	Yes	58	60	No assessment required	QDC Noise Category 1
5011	18.42	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
5012	18.55	58	60	Yes	Yes	58	60	QDC Noise Category 1	QDC Noise Category 1
5013	18.63	58	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
5014	18.08	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5015	17.92	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5016	17.91	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5017	17.38	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
5018	16.63	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5030	16.75	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5031	17.3	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5032	17.74	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5033	17.95	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5034	17.6	57	59	No	Yes	58	59	No assessment required	QDC Noise Category 1
5035	17.5	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5036	16.84	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5051	16.5	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5052	17.4	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5053	17.4	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5054	17.56	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5055	17.9	57	59	No	Yes	58	59	No assessment required	QDC Noise Category 1
5056	16.6	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5070	17.41	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5071	17.99	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
5072	18.2	57	59	No	Yes	58	59	No assessment required	QDC Noise Category 1
5073	18.41	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5074	21.4	60	63	Yes	Yes	61	63	QDC Noise Category 1	QDC Noise Category 2
5075	20.93	60	62	Yes	Yes	60	62	QDC Noise Category 1	QDC Noise Category 1
5076	20.42	59	61	Yes	Yes	59	61	QDC Noise Category 1	QDC Noise Category 1
5077	19.8	59	60	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
5078	19.2	58	59	Yes	Yes	59	60	QDC Noise Category 1	QDC Noise Category 1
5079	18.84	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5080	18.55	58	59	Yes	Yes	58	59	QDC Noise Category 1	QDC Noise Category 1
5081	18.1	57	58	No	Yes	58	59	No assessment required	QDC Noise Category 1
5082	17.51	57	58	No	Yes	58	58	No assessment required	QDC Noise Category 1
5083	17.14	57	58	No	Yes	57	58	No assessment required	QDC Noise Category 1
5240	13.6	54	54	No	No	60	66	No assessment required	AS3671
5241	13.57	54	54	No	No	60	65	No assessment required	AS3671
5242	13.49	54	54	No	No	60	65	No assessment required	AS3671
5243	13.43	54	54	No	No	60	66	No assessment required	AS3671
5244	13.36	54	54	No	No	60	66	No assessment required	AS3671
5245	13.3	54	54	No	No	60	66	No assessment required	AS3671
5246	13.24	54	54	No	No	60	66	No assessment required	AS3671
5247	13.06	54	54	No	No	60	66	No assessment required	AS3671
5248	12.97	54	54	No	No	60	66	No assessment required	AS3671
5249	12.88	54	54	No	No	60	66	No assessment required	AS3671
5250	12.8	54	54	No	No	60	66	No assessment required	AS3671
5251	12.74	54	54	No	No	60	65	No assessment required	AS3671
5252	12.65	54	54	No	No	60	66	No assessment required	AS3671
5253	12.58	54	54	No	No	60	65	No assessment required	AS3671
5254	12.42	54	54	No	No	60	65	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
5255	12.34	54	54	No	No	60	65	No assessment required	AS3671
5256	12.25	54	54	No	No	60	66	No assessment required	AS3671
5257	12.19	54	54	No	No	60	65	No assessment required	AS3671
5258	12.1	54	54	No	No	60	66	No assessment required	AS3671
5259	12.02	54	54	No	No	60	66	No assessment required	AS3671
5260	11.93	54	54	No	No	60	66	No assessment required	AS3671
5261	11.86	54	54	No	No	60	65	No assessment required	AS3671
5262	11.78	54	54	No	No	60	65	No assessment required	AS3671
5263	11.69	54	54	No	No	60	65	No assessment required	AS3671
5264	11.58	53	54	No	No	59	65	No assessment required	AS3671
5278	9.8	53	53	No	No	62	63	No assessment required	AS3671
5279	9.7	53	53	No	No	62	64	No assessment required	AS3671
5280	9.69	53	53	No	No	62	63	No assessment required	AS3671
5281	9.68	53	53	No	No	62	63	No assessment required	AS3671
5282	9.68	53	53	No	No	62	63	No assessment required	AS3671
5283	9.67	53	53	No	No	62	63	No assessment required	AS3671
5284	9.66	53	53	No	No	62	63	No assessment required	AS3671
5285	9.65	53	53	No	No	62	63	No assessment required	AS3671
5286	9.65	53	53	No	No	62	63	No assessment required	AS3671
5287	9.63	53	53	No	No	62	63	No assessment required	AS3671
5288	9.63	53	53	No	No	63	64	AS3671	AS3671
5289	9.62	53	53	No	No	63	64	AS3671	AS3671
5290	9.62	53	53	No	No	63	64	AS3671	AS3671
5291	9.63	53	53	No	No	63	64	AS3671	AS3671
5292	9.61	53	53	No	No	64	65	AS3671	AS3671
5293	9.66	53	53	No	No	64	65	AS3671	AS3671
5294	9.67	53	53	No	No	64	65	AS3671	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
5295	9.68	53	53	No	No	65	65	AS3671	AS3671
5296	9.69	53	53	No	No	64	65	AS3671	AS3671
5297	9.7	53	53	No	No	65	66	AS3671	AS3671
5298	9.7	53	53	No	No	65	66	AS3671	AS3671
5420	10.9	53	54	No	No	61	66	No assessment required	AS3671
5421	10.9	53	54	No	No	60	66	No assessment required	AS3671
5422	10.92	53	54	No	No	60	66	No assessment required	AS3671
5423	10.9	53	54	No	No	60	66	No assessment required	AS3671
5424	10.94	53	54	No	No	60	66	No assessment required	AS3671
5425	10.99	53	54	No	No	60	66	No assessment required	AS3671
5426	11.07	53	54	No	No	60	66	No assessment required	AS3671
5427	11.09	53	54	No	No	60	66	No assessment required	AS3671
5428	11.14	53	54	No	No	60	65	No assessment required	AS3671
5429	11.18	53	54	No	No	60	65	No assessment required	AS3671
5430	11.28	53	54	No	No	60	65	No assessment required	AS3671
5562	11.7	53	54	No	No	60	65	No assessment required	AS3671
5563	11.78	53	54	No	No	60	65	No assessment required	AS3671
5564	11.86	53	54	No	No	59	65	No assessment required	AS3671
5565	11.9	53	54	No	No	59	65	No assessment required	AS3671
5566	12.18	53	54	No	No	60	65	No assessment required	AS3671
5567	12.27	53	54	No	No	60	65	No assessment required	AS3671
5568	12.3	53	54	No	No	59	65	No assessment required	AS3671
5569	12.39	53	54	No	No	59	65	No assessment required	AS3671
5570	12.49	53	54	No	No	60	65	No assessment required	AS3671
5571	12.38	54	54	No	No	59	65	No assessment required	AS3671
5572	12.3	53	54	No	No	58	65	No assessment required	AS3671
5573	12.27	53	54	No	No	58	65	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
5574	12.2	53	54	No	No	58	64	No assessment required	AS3671
5575	12.15	53	54	No	No	58	64	No assessment required	AS3671
5576	12.08	54	54	No	No	57	64	No assessment required	AS3671
5577	11.99	53	54	No	No	57	64	No assessment required	AS3671
5578	11.98	53	54	No	No	57	63	No assessment required	AS3671
5579	11.89	53	54	No	No	57	63	No assessment required	AS3671
5580	11.8	53	54	No	No	57	63	No assessment required	AS3671
5581	11.8	54	54	No	No	57	63	No assessment required	AS3671
5582	12.31	54	54	No	No	59	64	No assessment required	AS3671
5583	11.7	53	54	No	No	61	63	No assessment required	AS3671
5584	11.69	54	54	No	No	61	63	No assessment required	AS3671
5585	11.68	54	54	No	No	61	63	No assessment required	AS3671
5586	11.67	54	54	No	No	61	63	No assessment required	AS3671
5587	11.6	53	54	No	No	61	63	No assessment required	AS3671
5588	11.6	53	54	No	No	61	63	No assessment required	AS3671
5589	11.59	53	54	No	No	61	63	No assessment required	AS3671
5590	11.57	53	54	No	No	61	63	No assessment required	AS3671
5591	11.5	53	54	No	No	61	63	No assessment required	AS3671
5594	11.49	53	54	No	No	61	63	No assessment required	AS3671
5595	11.5	53	54	No	No	61	63	No assessment required	AS3671
5596	11.5	54	54	No	No	60	63	No assessment required	AS3671
5597	11.57	54	54	No	No	61	63	No assessment required	AS3671
5598	11.59	54	54	No	No	61	63	No assessment required	AS3671
5599	11.59	53	54	No	No	61	63	No assessment required	AS3671
5600	11.6	54	54	No	No	60	63	No assessment required	AS3671
5601	11.67	54	54	No	No	61	63	No assessment required	AS3671
5602	11.68	54	54	No	No	61	63	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
5603	11.7	54	54	No	No	61	63	No assessment required	AS3671
5604	11.84	54	54	No	No	61	63	No assessment required	AS3671
5607	11.89	54	54	No	No	61	63	No assessment required	AS3671
5608	12.16	54	54	No	No	61	64	No assessment required	AS3671
5609	12.1	54	54	No	No	61	63	No assessment required	AS3671
5610	12.15	54	54	No	No	61	64	No assessment required	AS3671
5611	12.17	54	54	No	No	61	64	No assessment required	AS3671
5612	12.16	54	54	No	No	61	64	No assessment required	AS3671
5613	12.17	54	54	No	No	61	64	No assessment required	AS3671
5614	12.16	54	54	No	No	61	64	No assessment required	AS3671
5615	12.45	54	54	No	No	62	64	No assessment required	AS3671
5616	12.56	54	54	No	No	62	64	No assessment required	AS3671
5617	12.53	54	54	No	No	62	64	No assessment required	AS3671
5618	12.55	54	54	No	No	62	64	No assessment required	AS3671
5619	12.48	54	54	No	No	62	64	No assessment required	AS3671
5620	12.33	54	54	No	No	62	64	No assessment required	AS3671
5621	12.39	54	54	No	No	62	64	No assessment required	AS3671
5622	12.46	54	54	No	No	62	64	No assessment required	AS3671
5623	12.53	54	54	No	No	62	64	No assessment required	AS3671
5624	12.57	54	54	No	No	63	64	AS3671	AS3671
5625	12.51	54	54	No	No	63	64	AS3671	AS3671
5626	12.45	54	54	No	No	62	64	No assessment required	AS3671
5627	12.48	54	54	No	No	62	64	No assessment required	AS3671
5628	12.49	54	54	No	No	62	64	No assessment required	AS3671
5629	12.5	54	54	No	No	62	63	No assessment required	AS3671
6053	9.7	51	51	No	No	61	66	No assessment required	AS3671
6054	9.81	51	51	No	No	60	65	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
6055	9.84	51	51	No	No	60	64	No assessment required	AS3671
6056	9.88	51	51	No	No	59	64	No assessment required	AS3671
6057	9.91	51	51	No	No	59	64	No assessment required	AS3671
6058	9.97	50	51	No	No	59	64	No assessment required	AS3671
6059	10.02	50	51	No	No	59	64	No assessment required	AS3671
6060	10.04	50	51	No	No	59	65	No assessment required	AS3671
6061	10.08	50	51	No	No	59	64	No assessment required	AS3671
6062	10.13	50	51	No	No	60	65	No assessment required	AS3671
6063	10.23	50	51	No	No	60	65	No assessment required	AS3671
6064	10.26	50	51	No	No	59	65	No assessment required	AS3671
6065	10.31	50	51	No	No	59	65	No assessment required	AS3671
6066	10.35	50	51	No	No	59	65	No assessment required	AS3671
6067	10.39	50	51	No	No	59	65	No assessment required	AS3671
6068	10.44	50	51	No	No	59	65	No assessment required	AS3671
6069	10.47	50	51	No	No	59	65	No assessment required	AS3671
6070	10.52	50	50	No	No	59	65	No assessment required	AS3671
6071	10.54	50	50	No	No	58	65	No assessment required	AS3671
6072	10.58	50	50	No	No	61	65	No assessment required	AS3671
6093	11.92	50	50	No	No	58	64	No assessment required	AS3671
6094	11.96	50	50	No	No	58	64	No assessment required	AS3671
6095	12	50	50	No	No	58	65	No assessment required	AS3671
6096	12.04	50	50	No	No	58	65	No assessment required	AS3671
6097	12.08	50	50	No	No	58	65	No assessment required	AS3671
6098	12.19	50	50	No	No	58	65	No assessment required	AS3671
6099	12.21	50	50	No	No	58	65	No assessment required	AS3671
6100	12.25	50	50	No	No	58	65	No assessment required	AS3671
6101	12.28	50	50	No	No	58	65	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
6102	12.3	50	50	No	No	59	65	No assessment required	AS3671
6103	12.3	50	50	No	No	58	65	No assessment required	AS3671
6115	6.5	49	49	No	No	59	65	No assessment required	AS3671
6116	6.5	48	49	No	No	58	64	No assessment required	AS3671
6117	6.5	48	49	No	No	58	64	No assessment required	AS3671
6118	7.68	49	49	No	No	59	64	No assessment required	AS3671
6119	9.32	49	49	No	No	60	64	No assessment required	AS3671
6120	10.42	49	50	No	No	60	63	No assessment required	AS3671
6121	10.51	49	50	No	No	59	63	No assessment required	AS3671
6122	10.58	49	50	No	No	59	63	No assessment required	AS3671
6123	10.64	49	50	No	No	59	63	No assessment required	AS3671
6187	10.8	49	50	No	No	60	64	No assessment required	AS3671
6188	10.88	49	50	No	No	58	64	No assessment required	AS3671
6189	10.92	50	50	No	No	59	65	No assessment required	AS3671
6190	10.99	49	50	No	No	58	65	No assessment required	AS3671
6191	11.07	49	50	No	No	58	64	No assessment required	AS3671
6192	11.16	50	50	No	No	58	64	No assessment required	AS3671
6193	11.2	50	50	No	No	59	65	No assessment required	AS3671
6194	11.28	50	50	No	No	58	64	No assessment required	AS3671
6195	11.33	50	50	No	No	59	65	No assessment required	AS3671
6196	11.38	50	50	No	No	59	65	No assessment required	AS3671
6197	11.41	50	50	No	No	58	64	No assessment required	AS3671
6198	11.48	50	50	No	No	59	65	No assessment required	AS3671
6199	11.56	50	50	No	No	59	64	No assessment required	AS3671
6200	11.63	50	50	No	No	59	64	No assessment required	AS3671
6201	11.69	50	50	No	No	60	64	No assessment required	AS3671
6202	11.89	50	50	No	No	59	65	No assessment required	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A)		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A)		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		State-Controlled Roads Only		Ground	Level 1	All Roads		Ground	Level 1
		Ground	Level 1			Ground	Level 1		
6203	11.99	50	50	No	No	59	65	No assessment required	AS3671
6204	12.31	50	51	No	No	59	65	No assessment required	AS3671
6205	12.44	50	51	No	No	59	64	No assessment required	AS3671
6206	12.56	50	51	No	No	58	64	No assessment required	AS3671
6207	13.17	50	51	No	No	59	64	No assessment required	AS3671
6208	13.28	50	51	No	No	59	64	No assessment required	AS3671
6209	13.37	51	51	No	No	60	65	No assessment required	AS3671
6210	13.06	51	51	No	No	59	65	No assessment required	AS3671
6211	13.17	51	51	No	No	60	65	No assessment required	AS3671
6212	13.26	51	51	No	No	60	65	No assessment required	AS3671
6213	13.72	51	51	No	No	60	65	No assessment required	AS3671
6214	13.83	51	51	No	No	60	65	No assessment required	AS3671
6215	13.96	51	51	No	No	60	65	No assessment required	AS3671
6216	14.12	51	51	No	No	61	66	No assessment required	AS3671
6217	14.19	51	51	No	No	60	65	No assessment required	AS3671
6218	14.4	51	51	No	No	60	65	No assessment required	AS3671
6219	14.64	51	51	No	No	62	67	No assessment required	AS3671
6220	14.78	51	51	No	No	62	67	No assessment required	AS3671
6221	14.52	51	51	No	No	64	65	AS3671	AS3671
6222	14.49	51	51	No	No	64	65	AS3671	AS3671
6223	14.46	51	51	No	No	64	65	AS3671	AS3671
6224	14.43	51	51	No	No	64	65	AS3671	AS3671
6225	14.41	51	51	No	No	64	65	AS3671	AS3671
6226	14.38	51	52	No	No	64	65	AS3671	AS3671
6227	14.36	51	52	No	No	64	65	AS3671	AS3671
6228	14.32	51	52	No	No	64	65	AS3671	AS3671
6229	14.22	51	52	No	No	63	65	AS3671	AS3671



Lot	Pad Level (m)	Facade corrected noise levels – L10,18hr, dB(A) State-Controlled Roads Only		QDC MP4.4 Triggered?		Facade corrected noise levels – L10,18hr, dB(A) All Roads		Building Envelope Design Requirement (QDC MP4.4 or AS3671)	
		Ground	Level 1	Ground	Level 1	Ground	Level 1	Ground	Level 1
6360	14.57	52	52	No	No	60	64	No assessment required	AS3671
6361	14.6	52	52	No	No	60	63	No assessment required	AS3671
6362	14.55	52	52	No	No	59	63	No assessment required	AS3671
6363	14.5	52	52	No	No	59	63	No assessment required	AS3671
6364	14.46	52	52	No	No	59	63	No assessment required	AS3671
6365	14.41	52	52	No	No	59	63	No assessment required	AS3671
6366	14.35	52	52	No	No	59	63	No assessment required	AS3671
6367	14.29	52	52	No	No	59	63	No assessment required	AS3671
6368	14.24	52	53	No	No	59	63	No assessment required	AS3671
6369	14.18	52	53	No	No	59	63	No assessment required	AS3671
6370	14.11	52	53	No	No	59	63	No assessment required	AS3671
6371	13.28	52	53	No	No	59	63	No assessment required	AS3671
6372	13.5	52	52	No	No	60	65	No assessment required	AS3671
6373	13.62	52	52	No	No	60	65	No assessment required	AS3671
6374	13.69	52	52	No	No	59	65	No assessment required	AS3671
6375	13.93	52	52	No	No	59	64	No assessment required	AS3671
6376	14.23	52	52	No	No	59	65	No assessment required	AS3671
6377	14.47	52	52	No	No	59	65	No assessment required	AS3671
6378	14.72	52	52	No	No	59	64	No assessment required	AS3671
6379	15.12	52	52	No	No	59	64	No assessment required	AS3671
6380	15.32	51	52	No	No	59	64	No assessment required	AS3671
6381	15.55	51	52	No	No	58	64	No assessment required	AS3671
6382	15.75	51	52	No	No	58	64	No assessment required	AS3671
6383	16.02	51	52	No	No	58	64	No assessment required	AS3671
6384	16.27	51	52	No	No	58	64	No assessment required	AS3671
6385	16.51	51	51	No	No	58	64	No assessment required	AS3671
6386	16.82	51	51	No	No	59	66	No assessment required	AS3671



Appendix E QDC MP4.4 Construction Requirements

Schedule 1 of QDC MP4.4 for the minimum required R_w of building components is reproduced in **Table 15**. Recommendations for the performance and construction of façade elements has been provided in

Table 16. NOTE: Other forms of construction may be applied, provided these meet the R_w values required.

Where a R_w rating applies to a window, this applies to the glass, frame and window seal system. An acoustic test certificate will be required from the window supplier for Category 2 glazing and higher. It is noted that in order to achieve the internal design sound levels, windows must remain closed.

Table 15: Minimum R_w required for the building component (reproduced from QDC MP4.4)

Noise Category	Minimum transport noise reduction required for habitable rooms, dB(A)	Component of building's external envelope	Minimum R_w required for each component
3	35	Glazing	38 (total area of glazing for a <i>habitable</i> room is greater than 1.8m ²)
			35 (total area of glazing for a <i>habitable</i> room is less than or equal to 1.8 m ²)
		External walls	47
		Roof	41
		Floors	45
		Entry doors	33
2	30	Glazing	35 (total area of glazing for a <i>habitable</i> room is greater than 1.8m ²)
			32 (total area of glazing for a <i>habitable</i> room is less than or equal to 1.8 m ²)
		External walls	41
		Roof	38
		Floors	45
		Entry doors	33
1	25	Glazing	27 (total area of glazing for a <i>habitable</i> room is greater than 1.8 m ²)
			24 (total area of glazing for a <i>habitable</i> room is less than or equal to 1.8 m ²)
		External walls	35
		Roof	35
		Entry doors	28
0	No additional acoustic treatment required – standard building assessment provisions apply.		



Table 16: Construction recommendations (reproduced from QDC MP4.4)

Component of building's external envelope	Minimum R_w	Component of building's external envelope
Glazing	38	Minimum 14.38 mm thick laminated glass, with full perimeter <i>acoustically rated seals</i> ; OR Double glazing consisting of one pane of minimum 5 mm thick glass and one pane of minimum 6 mm thick glass with at least 44 mm air gap, and full perimeter <i>acoustically rated seals</i>
	35	Minimum 10.38 mm thick laminated glass, with full perimeter <i>acoustically rated seals</i> .
	32	Minimum 6.38 mm thick laminated glass with full perimeter <i>acoustically rated seals</i> .
	27	Minimum 4 mm thick glass with full perimeter <i>acoustically rated seals</i>
	24	Minimum 4 mm thick glass with standard weather seals
External Walls	47	Two leaves of clay brick masonry at least 110 mm thick with: (i) cavity not less than 50 mm between leaves; and (ii) 50 mm thick mineral insulation or 50 mm thick glass wool insulation with a density of 11kg/m³ or 50 mm thick polyester insulation with a density of 20kg/m³ in the cavity. OR Two leaves of clay brick masonry at last 110 mm thick with: (i) cavity not less than 50 mm between leaves; and (ii) at least 13 mm thick cement render on each face OR Single leaf of clay brick masonry at least 110 mm thick with: (i) a row of at least 70 mm x 35 mm timber studs or 64 mm steel studs at 600 mm centres, spaced at least 20 mm from the masonry wall; and (ii) Mineral insulation or glass wool insulation at least 50 mm thick with a density of at least 11 kg/m³ positioned between studs; and (iii) One layer of plasterboard at least 13 mm thick fixed to outside face of studs. OR Single leaf of minimum 150 mm thick masonry of hollow, dense concrete blocks, with mortar joints laid to prevent moisture bridging.
External Walls (cont.)	41	Two leaves of clay brick masonry at least 110 mm thick with cavity not less than 50 mm between leaves OR Single leaf of clay brick masonry at last 110 mm thick with: (i) a row of at least 70 mm x 35 mm timber studs or 64 mm steel studs at 600 mm centres, spaced at least 20 mm from the masonry wall; and (ii) mineral insulation or glass wool insulation at least 50 mm thick with a density of at least 11 kg/m³ positioned between studs; and (iii) One layer of plasterboard at least 10 mm thick fixed to outside face of studs OR Single leaf of brick masonry at least 110 mm thick with at least 13 mm thick render on each face OR Concrete brickwork at least 110 mm thick OR In-situ concrete at least 100 mm thick OR

Component of building's external envelope	Minimum R_w	Component of building's external envelope
		Precast concrete at least 100 mm thick and without joints.
	35	Single leaf of clay brick masonry at least 110 mm thick with: (i) a row of at least 70 mm x 35 mm timber studs or 64 mm steel studs at 600 mm centres, spaced at least 20 mm from the masonry wall; and (ii) One layer of plasterboard at least 10 mm thick fixed to outside face of studs OR Minimum 6 mm thick fibre cement sheeting or weatherboards or plank cladding externally, minimum 90 mm deep timber stud or 92 mm metal stud, standard plasterboard at least 13 mm thick internally.
Roof	41	Concrete or terracotta tile or metal sheet roof with sarking, plasterboard ceiling at least 10 mm thick fixed to ceiling joists, glass wool insulation at least 50 mm thick with a density of at least 11 kg/m³ or polyester insulation at least 50 mm thick with a density of at least 20 kg/m³ in the cavity. OR Concrete suspended slab at least 100 mm thick.
	38	Concrete or terracotta tile or metal sheet roof with sarking, plasterboard ceiling at least 10 mm thick fixed to ceiling cavity, mineral insulation or glass wool insulation at least 50 mm thick with a density of at least 11 kg/m ³ .
	35	Concrete or terracotta tile or metal sheet roof with sarking, plasterboard ceiling at least 10 mm thick fixed to ceiling cavity.
Floors	45	Concrete slab at least 100 mm thick OR Tongued and grooved boards at least 19 mm thick with: (i) timber joists not less than 175 mm x 50 mm; and (ii) mineral insulation or glass wool insulation at least 75 mm thick with a density of at least 11 kg/m³ positioned between joists and laid on plasterboard at least 10 mm thick fixed to underside of joists; and (iii) mineral insulation or glass wool insulation at least 25 mm thick with a density of at least 11 kg/m³ laid over entire floor, including tops of joists before flooring is laid; and (iv) secured to battens at least 75 mm x 50 mm; and (v) the assembled flooring laid over the joists, but not fixed to them, with battens lying between the joists.
Entry Doors	33	Fixed so as to overlap the frame or rebate of the frame by not less than 10 mm, fitted with full perimeter acoustically rated seals and constructed of - (i) solid core, wood, particleboard or blockboard not less than 45 mm thick; and/or (ii) acoustically laminated glass not less than 10.38 mm thick.
	28	Fixed so as to overlap the frame or rebate of the frame, constructed of - (i) Wood, particleboard or blockboard not less than 33 mm thick; or (ii) Compressed fibre reinforced sheeting not less than 9 mm thick; or (iii) Other suitable material with a mass per unit area not less than 24.4 kg/m²; or (iv) Solid core timber door not less than 35 mm thick fitted with full perimeter <i>acoustically rated seals</i>.



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