



Decibell ***Consulting*** *pty Ltd*

**Proposed Educational Establishment,
101-115 Lemke Rd,
Taigum**

**ENVIRONMENTAL
NOISE IMPACT REPORT**

Prepared for

Singh Sabha Brisbane

Decibell Consulting Pty Ltd

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12th April 2026

Decibell Report No.: DRAFT

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1.0 INTRODUCTION

This report is submitted in response to a request by Matt Doolan Town Planner, on behalf of the Singh Sabha Brisbane, for an environmental noise impact assessment of a proposed educational establishment to be located at 101-115 Lemke Rd, Taigum. This report forms part of a development application to be lodged with the Brisbane City Council.

On-site noise logging and attended noise measurement were conducted, and through modelling, predictions of noise impacts from the development on the neighbouring residences have been produced. Based upon these predicted levels, recommendations regarding acoustic treatments and management practices have been specified.

1.1 The Proposal

The proposal seeks approval to convert the existing residential dwelling into a small-scale educational establishment (School). The school is intended to meet the needs of Sikh, Punjabi, and Indian students within the local community by providing a culturally supportive learning environment.

The proposal also includes the use of the existing shed on site to an ancillary storage for the school. There is also an existing small playground, which will be maintained. Adequate parking and appropriate landscaping will be provided as shown on the proposal plans.

This school represents a vital addition to the community, considering that the Sikh population is among the fastest-growing in Australia. Notably, over 75% of the Sikh population in the country is under the age of 35, leading to a significant demand for educational facilities catering to their cultural and linguistic needs.

The proposed school will operate seven days a week, from 7:00 AM to 7:00 PM. At its inception, the school is projected to accommodate 60 students, along with 40 students attending weekend language classes. The faculty will consist of six staff members (Teachers and their assistants).

Noise impacts from the proposed development have the potential to impact the surrounding residential area and will be considered in this report.

For further details of the development layout and surrounds refer to appendix for site plans and aerial photograph.

2.0 EQUIPMENT

The following equipment was used to record noise impacting onto the site:

- Bruel Kjaer 4231 Calibrator;
- Larson Davis Environmental Noise Logger.
- Rion NA 27 Sound Level Meter.

3.0 MEASUREMENT PROCEDURE

3.1 Logger Noise Measurement

A noise logger was located the boundary of the residential area to the east of the site closest to the proposed development. The location of the logger is indicated on the aerial photograph included below.



Figure 1: Measurement Location

The logger was set to record noise statistics in 15-minute blocks continually over a 48 hour period from Tuesday the 7/04/26 to Thursday 9/04/26. Ambient noise level measurements were conducted generally in accordance with Australian Standard AS1055 1997 "Acoustics – Description & Measurement of Environmental Noise".

The operation of the sound level measuring equipment was field calibrated before and after the measurement session and was found to be within 0.1 dB of the reference signal. All instrumentation used in this assessment hold current calibration certificate from a certified NATA calibration laboratory.

Weather conditions during the survey period were fine with light winds and temperatures ranging from 17° C to 33° C.

3.2 On Site Noise Measurement

Noise measurements relating to on-site activities have been taken from previous acoustic prepared by Decibell Consulting including previous acoustic report submitted to council into other aspect of development at the site. All measurements were conducted generally in accordance with Australian Standard AS1055 1997 "Acoustics – Description & Measurement of Environmental Noise".

4.0 NOISE CRITERIA

4.1 On Site Activities

The Brisbane City Plan 2014 *Community Facilities Code* limits noise emissions from on-site activities. PO 2 (Performance Outcome) of the code states:

PO2

Development ensures that noise generated does not exceed the noise (planning) criteria in **Table 9.3.5.3.B** and night-time noise criteria in **Table 9.3.5.3.C** at a sensitive zone or sensitive use

Table 9.3.5.3.B has been reproduced below:

Table 9.3.5.3.B—Noise (planning) criteria

Criteria location	Intrusive noise criteria	Acoustic amenity criteria		
	<p>Day, evening and night $L_{Aeq,adj,T}$ are not greater than the RBL plus the value in this column for the relevant criteria location, where T equals:</p> <ul style="list-style-type: none"> day – 11hr evening – 4hr night – 9hr 	<p>Day, evening and night $L_{Aeq,adj,T}$ are not greater than the values in the columns below for the relevant criteria location, where T equals:</p> <ul style="list-style-type: none"> day – 11hr evening – 4hr night – 9hr 		
		Day	Evening	Night
<u>Low density residential zone boundary</u>	3dB(A)	55dB(A)	45dB(A)	40dB(A)
<u>Emerging Community Zone Boundary</u>	5dB(A)	55dB(A)	50dB(A)	45dB(A)

The Night-time noise criteria from the Brisbane City Plan 2014 *Community Facilities Code* are contained in Table 9.3.5.3.C which has been reproduced below:

Table 9.3.5.3.C—Night-time noise criteria

Criteria location	Where the existing $L_{Aeq,9hr\ night}$ at the criteria location is:	Average of the highest 15 single L_{Amax} events over a given night (10pm–7am) period is not greater than the following values at the relevant criteria location	The absolute highest single L_{Amax} event over a given night (10pm–7am) period is not greater than the following values at the relevant criteria location
At the zone boundary of a: <ul style="list-style-type: none"> • <u>Low density residential zone</u>; • <u>Emerging Community Zone Boundary</u>; 	<45dB(A)	50dB(A)	55dB(A)
	45 to 60dB(A)	$L_{Aeq,9hr\ night} + 5\ dB(A)$	$L_{Aeq,9hr\ night} + 10dB(A)$
	>60dB(A)	65dB(A)	70dB(A)

As the proposed development is **not** proposed to operate overnight no assessment of noise impacts from the development against the Night-time noise criteria will be undertaken in this report.

5.0 RESULTS & CALCULATIONS

5.1 Rating Background Noise Level

The *Intrusive Noise Criteria* from Brisbane City Plan 2014 *Community Facilities Code* are determined from the RBL (Rating Background Level). In order to determine the RBL L90 background noise levels have been recorded over a period of 48 hours at the site. This data has been recorded in the table over the page and used to determine the RBL's for the various parts of the day.

Using the RBL's the *Intrusive Noise Criteria Levels* for both Low Density Residential Zone East of the site and the Emerging Community Zone neighbouring the site to south of the site have been determined and recorded in the table below. Alongside the Intrusive Noise Criteria the relevant Acoustic Amenity Criteria for each of the zones has also been recorded.

Time Period	RBL	Intrusive noise Criteria Level Low Density Residential Zone $LA_{eq} = RBL + 3$ dB(A)	Acoustic Amenity Criteria Low Density Residential Zone LA_{eq} dB(A)	Intrusive noise Criteria Level Emerging Community Zone $LA_{eq} = RBL + 5$ dB(A)	Acoustic Amenity Criteria Emerging Community Zone LA_{eq} dB(A)
Day 7 am – 6 pm	47	50	55	52	55
Evening 6 pm – 7 pm	52	54	45	53	50

Table 1: Intrusive and Acoustic Amenity Noise Criteria

	Tuesday 7/04/26		Wednesday 8/04/26	
Time	Measured	Ascending Order	Measured	Ascending Order
7:00	44.5		44.8	49.1
8:00	43.6		45.9	52.5
9:00	48.9		46.5	52.9
10:00	46.7		46.8	53.0
11:00	49.5		51.0	53.1
12:00	52.8		51.3	53.3
13:00	54.6		52.8	53.4
14:00	54.2		53.6	53.6
15:00	53.3		51.5	53.7
16:00	51.8		50.4	53.8
17:00	51.1		53.1	53.9
ABL - Day	44.5		49.1	
18:00	52.6	51.5	53.9	47.0
19:00	51.1	51.6	52.5	47.3
ABL -Evening	51.1		52.4	
RBL-Day	46.8			
RBL-Evening	51.8			

Table 2: Rating Background Levels

The *Performance Outcome PO2* of Brisbane City Plan 2014 *Community Facilities Code* require that the $L_{Aeq,adj,T}$ noise do not exceed the Noise (planning) criteria in **Table 9.3.5.3.B** of the Code. The *Noise (Planning) Criteria* relate to the lower of the *Intrusive Noise Criteria* and *Acoustic Amenity Criteria* determined at the boundary of the relevant zone. The *Noise (Planning) Criteria* have been determined from the *Intrusive Noise Criteria* and *Acoustic Amenity Criteria* recorded in Table 1 of this report.

Time Period	Noise Planning Criteria Level Low Density Residential Zone (Brushbox St Residential Area) L_{Aeq} dB(A)	Noise Planning Criteria Level Emerging Community Zone South of Site L_{Aeq} dB(A)
Day 7 am – 6 pm	50	52
Evening 6 pm – 10 pm	45	50

Table 3: Noise (Planning) Criteria

In this report noise emissions will be assessed against the *Noise (Planning) Criteria* determined in the above table. The noise limit criteria presented in the above table relate to measured corrected limits, where corrections must be applied to allow for tonal or impulsive characteristics as per Australian Standard AS 1055.

5.2 Car Park Noise

A new entry will be constructed as part of the development. This entry will link to a driveway that will loop around and link with the carpark on the neighbouring site. Alongside the driveway will be constructed a drop off area as well as car spaces. Source noise levels taken from previous studies of car parking activities of a similar nature are presented in the table below. These sources noise level have been corrected in accordance with AS 1055.

Noise Source	Measured Level @ 1m Leq dB(A)	Correction SPL dB(A)*	Corrected Level Leq adj dB(A)
Car Start Up	71	0	71 dB
Car door closure	70	+ 5 (impulsive)	75 dB
Car bypass @ 5 km/h	63	0	63 dB
People Talking @ normal Level in Car park	60	0	60 dB

Table 4: Measured average noise levels from Car Park Activities
* As required by AS 1055

The source noise levels from the table above have been used to model the noise impacts from the proposed development at the boundaries of the nearest residential properties. The source noise levels from the table above have been used to model the noise impacts from the proposed car parking and driveway at the boundary of the Low-Density Zone to the east of the site (at Brushbox St) and at the boundary of the Emerging Community Zone south of the site (42 and 27 Tamarind St). Calculations involved in modelling noise impacts from the development on these locations have been included in the appendix to this report and the results have been presented in the table below.

Noise Source	Predicted Noise Impact Level at Boundary of Low density Zone (Brushbox St) Leq adj dB(A)	Predicted Noise Impact Level at Boundary with Emerging Community Zone South of the site (Tamarind St) Leq Adj dB(A)
Car Start Up	29	37
Car door closure	33	41
Car bypass @ 5 km/h	21	29
People Talking @ normal Level in Car park	18	26

Table 5: Predicted corrected noise impacts associated with Car park Activities

5.3 School and Playground Activities

The proposal is to convert an existing dwelling towards the Lemke Rd frontage of the site into a school building. This building will provide facilities for up to 60 students. (However, this will likely increase over time.) Source noise levels relating to typical activities likely to occur at the school have been taken previous acoustic reports prepared by Decibell Consulting and included in the table below.

Noise Source	Measured Level @ 1m Leq dB(A)	Correction SPL dB(A)*	Corrected Level Leq adj dB(A)
60 Children Playing in playground	80	0	80
Staff Talking in Admin area	60	0	60
Teacher Talking Loudly in Classroom	65	0	65
20 Children Reciting Lessons in Classroom	73	0	73
Typing on Computer Keyboard	45	0	45

Table 6: Measured Source Noise Levels from School Activities

The source noise levels from the table above have been used to model the noise impacts from the proposed school at the boundary of the Low-Density Zone to the east of the site (at Brushbox St) and at the boundary of the Emerging Community Zone south of the site (42 and 27 Tamarind St). Calculations involved in modelling noise impacts from the development on these locations have been included in the appendix to this report and the results have been presented in the table below.

Noise Source	Predicted Noise Impact Level at Boundary of Low density Zone (Brushbox St) Leq adj dB(A)	Predicted Noise Impact Level at Boundary with Emerging Community Zone South of the site (Tamarind St) Leq Adj dB(A)
60 Children Playing in playground	37	43
Teacher Talking Loudly in Classroom	20	28
20 Children Reciting Lessons in Classroom	28	36
Typing on Computer Keyboard	0	7

Table 7: Modelled Noise impacts from School at the Boundaries of the Nearest Noise Sensitive Locations and Zones

6.0 RECOMMENDED ACOUSTIC TREATMENTS

6.1 Noise from Car park

Modelling in Section 5.2 of car park noise determined that noise impacts from the car park will not exceed the criteria from the Brisbane City Council *Community Facilities Code* at either the boundary of the Low-Density Zone to the east of the site (at Brushbox St) and at the boundary of the Emerging Community Zone south of the site (42 and 27 Tamarind St). Given this no measures have been recommended to mitigate noise impacts from these sources.

6.2 School and Playground Noise

Modelling in Section 5.3 also determined that noise impacts from activities likely to be associated with the proposed school and playground would also not exceed the criteria from the Brisbane City Council *Community Facilities Code* at either the boundary of the Low-Density Zone to the east of the site (at Brushbox St) and at the boundary of the Emerging Community Zone south of the site (42 and 27 Tamarind St). Given this no measures have been again recommended to mitigate noise impacts from these sources.

6.6 Mechanical Plant Noise

It is not known whether the proposed school building will be air conditioned. So rather than recommend particular barriers or screens it is recommended that the approval of the development be conditioned such that prior to construction of the building a design for suitable acoustic attenuation be submitted to Council that will allow the proposed plant to achieve the *Noise (Planning) Criteria* levels contained in **Table 9.3.5.3 B** of the Brisbane City Plan 2014 *Community Facilities Code*.

The *Noise (Planning) Criteria* were determined in Section 5.1 of this report. Based on these *Noise (Planning) Criteria* the noise limits for mechanical plant have been determined. These levels have been included in the table below.

Time Period	Noise Planning Criteria Level Low Density Residential Zone (Brushbox St Residential Area) LA _{eq} dB(A)	Noise Planning Criteria Level Emerging Community Zone (95 Lemke Rd & 502 Church Rd) LA _{eq} dB(A)
Day 7 am – 6 pm	50	52
Evening 6 pm – 10 pm	45	50
Night 10 pm – 7 am	40	45

Table 8: *Noise (Planning) Criteria for mechanical plant*

It is further recommended that the approval of the development be conditioned such that any mechanical plant installed on site be designed to achieve these specific levels.

7.0 DISCUSSION & CONCLUSIONS

Noise impacts from the proposed educational establishment (school), and car park have been considered in this report.

A second entry to the site will be constructed adjacent to the school building. A drop off area will also be constructed along with additional parking around the site. Modelling in Section 5.2 this report determined that noise impacts from the car park will not exceed the criteria from the Brisbane City Council *Community Facilities Code* at either the boundary of the Low-Density Zone to the east of the site (at Brushbox St) and at the boundary of the Emerging Community Zone south of the site (42 and 27 Tamarind St). Given this no measures have been recommended to mitigate noise impacts from these sources.

Modelling of noise impacts from activities likely to be associated with the proposed school, playground and sporting fields was also conducted in this report. It was determined that noise impacts from these sources would not exceed the criteria from the Brisbane City Council *Community Facilities Code*. Given this no measures have been recommended to mitigate noise impacts from these sources.

It is not known whether the school building will be air conditioned. So rather than recommend particular barriers or screens it is recommended that the approval of the development be conditioned such that prior to construction of the building a design for suitable acoustic attenuation be submitted to Council that will allow the proposed plant to achieve the *Noise (Planning) Criteria* levels contained in **Table 9.3.5.3 B** of the Brisbane City Plan 2014 *Community Facilities Code*. These limits were determined in Section 6.3 of this report.

Subject to our calculations, and conditions relating to mechanical plant, we believe that the development will meet all requirements of Brisbane City Council *Community Facilities Code* and *Noise Impact Assessment Planning Policy* and should be approved.

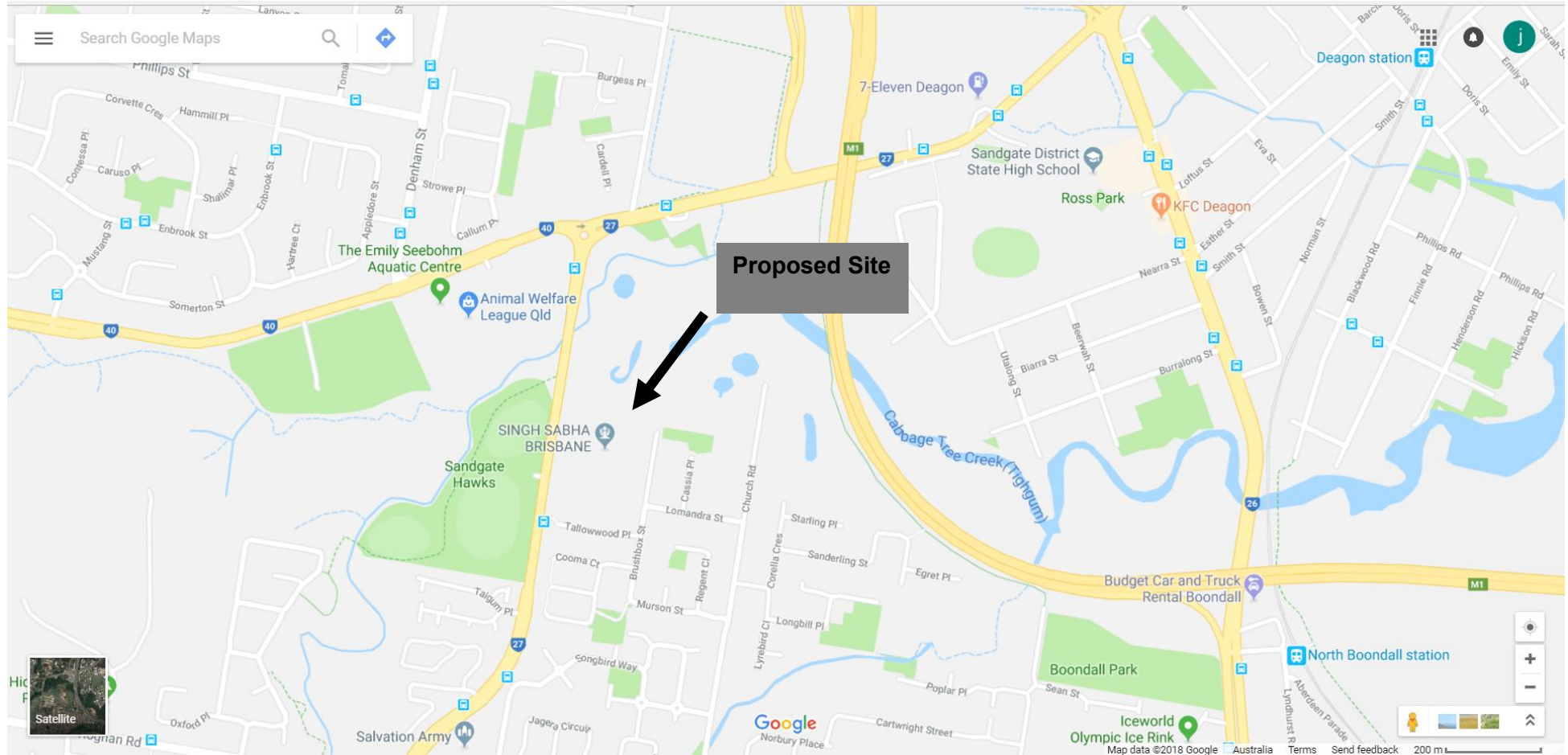
Report Compiled By:



John Cristaudo BE MAAS RPEQ
Acoustic Consultant
Decibell Consulting

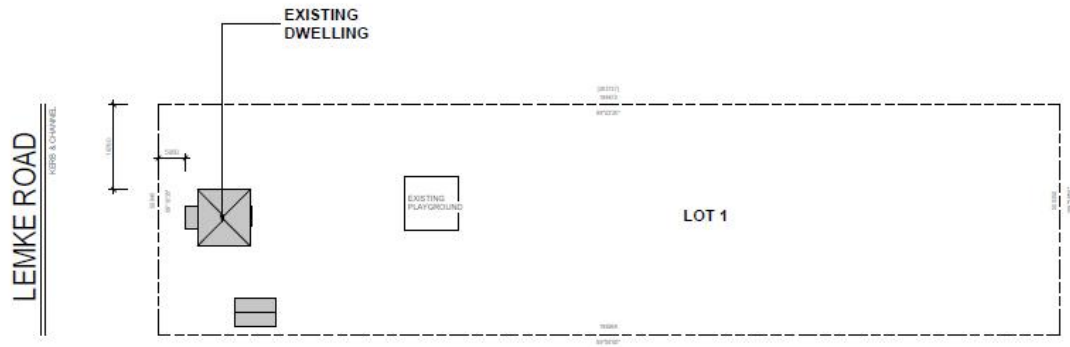
APPENDIX

**Proposed Development Site Sketch No. 1
PLAN VIEW**



Proposed Development Site Sketch No. 2
Aerial Photograph

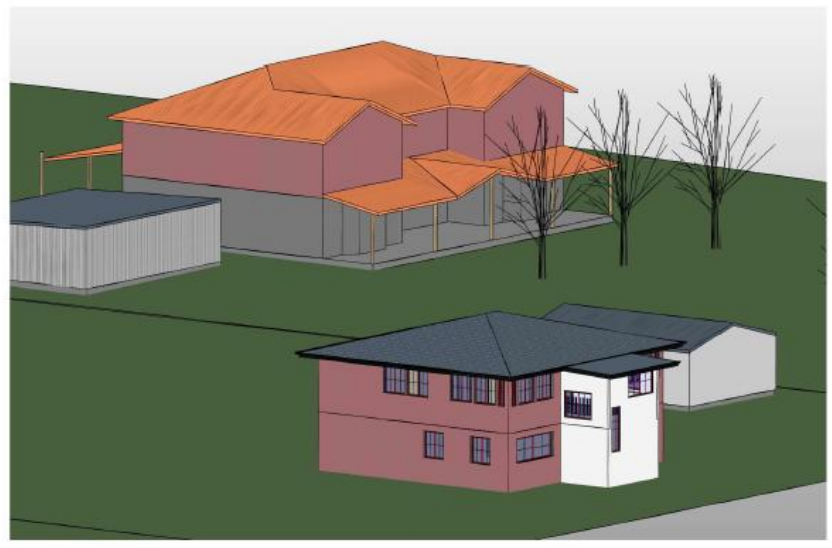




EXISTING SITE
① PLAN



② PERSPECTIVE 01



③ PERSPECTIVE 02



SITE DETAILS:
LOT 1 ON RP97335
SITE AREA: 55648m²

GENERAL NOTES
ALL BUILDING WORK TO ADHERE TO B.C.A. AND ALL RELEVANT CODES AND STANDARDS.

ALL ROOF RAINWATER TO BE CONNECTED TO COUNCIL STORMWATER LINE VIA 100mm uPVC DP's AT 1:100 GRADE AS PER COUNCIL REQUIREMENTS.

ALL EFFLUENT & WASTE WATER TO BE CONNECTED TO COUNCIL SEWERAGE LINE AS PER COUNCIL REQUIREMENTS.



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G.B.S.A. Lic. No. 96213
50 Michel Drive, Naringbo QLD 4604
Phone: 3888 5555
Fax: 3888 2444
Email: zenithdesignqld@gmail.com

REAL PROPERTY DESCRIPTION:
LOT 2 / LOT 1 / LOT 355

PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION
ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
EXISTING SITE PLAN

ISSUE DATE: 20-11-13

SHEET: 01 OF 22

SCALE (AT A1 SIZE): 1 : 500

STATUS: WORKING DRAWINGS

DRAWN: BZ.DZ
CHECKED: BZ

PLOT DATE: 14/10/2025 10:57:50 AM

JOB NO : 3298-25

COPYRIGHT ZENITH DESIGN

REAL PROPERTY DESCRIPTION:

LOT 21 / LOT 1 / LOT 335
PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
EXISTING GF

ISSUE DATE: 20-11-13

SHEET: 02 OF 22

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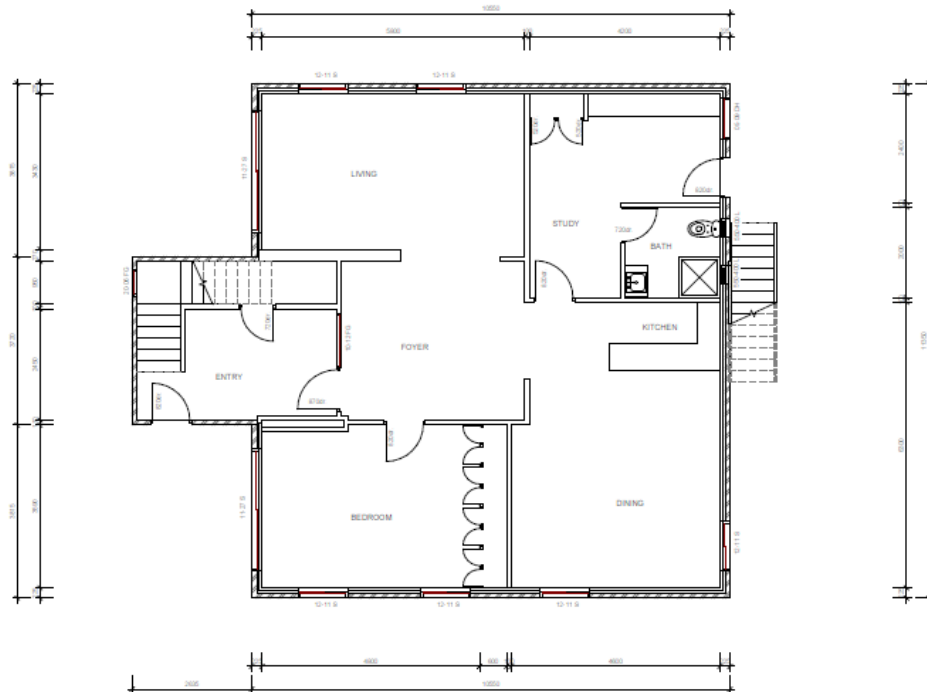
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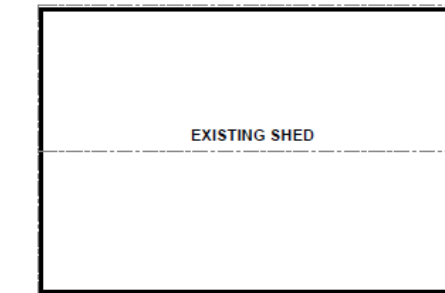
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JOB NO : 3298-25

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EXISTING HOUSE
① GF



② STORAGE SHED
1 : 50

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335
PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION
ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
EXISTING FF

ISSUE DATE: 20-11-13

SHEET: 03 OF 22

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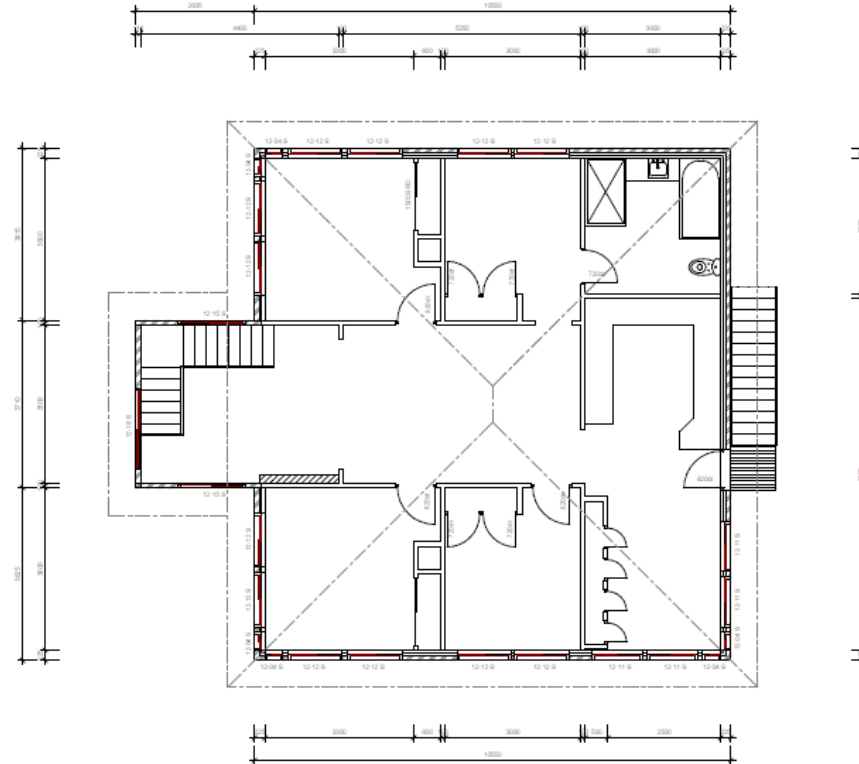
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CHECKED: BZ

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EXISTING HOUSE
① FF



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G.B.S.A. Lic. No. 66219
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Phone: 3888 2666
Fax: 3888 2444
Email: zenithdesignqld@gmail.com

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335

PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION
ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
ELEVATIONS

ISSUE DATE: 22-11-13

SHEET: 04 OF 22

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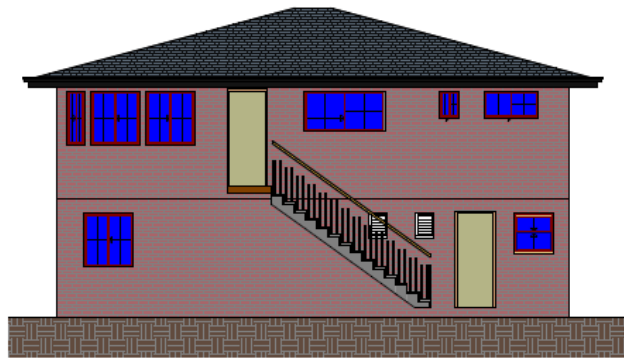
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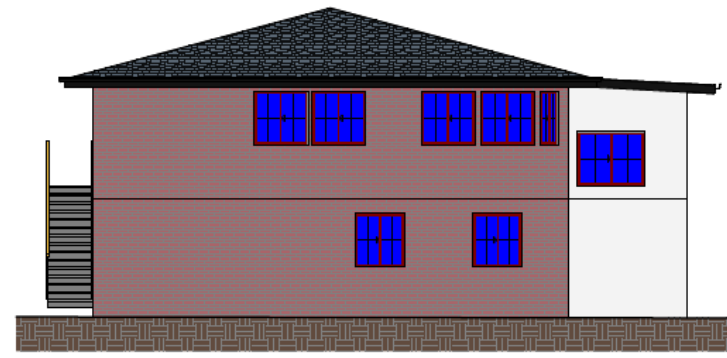
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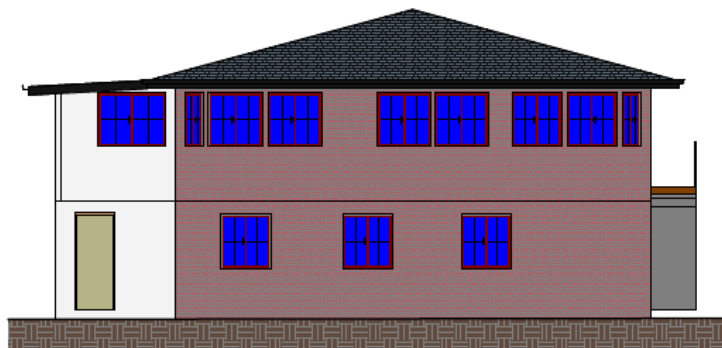
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① SCHOOL EAST
1:50



② SCHOOL NORTH
1:50



③ SCHOOL SOUTH
1:50



④ SCHOOL WEST
1:50

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335

PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
PROPOSED SITE
PLAN

ISSUE DATE: 20-11-13
ISSUE DATE: 13TH JUNE 2024

SHEET: 05 OF 22

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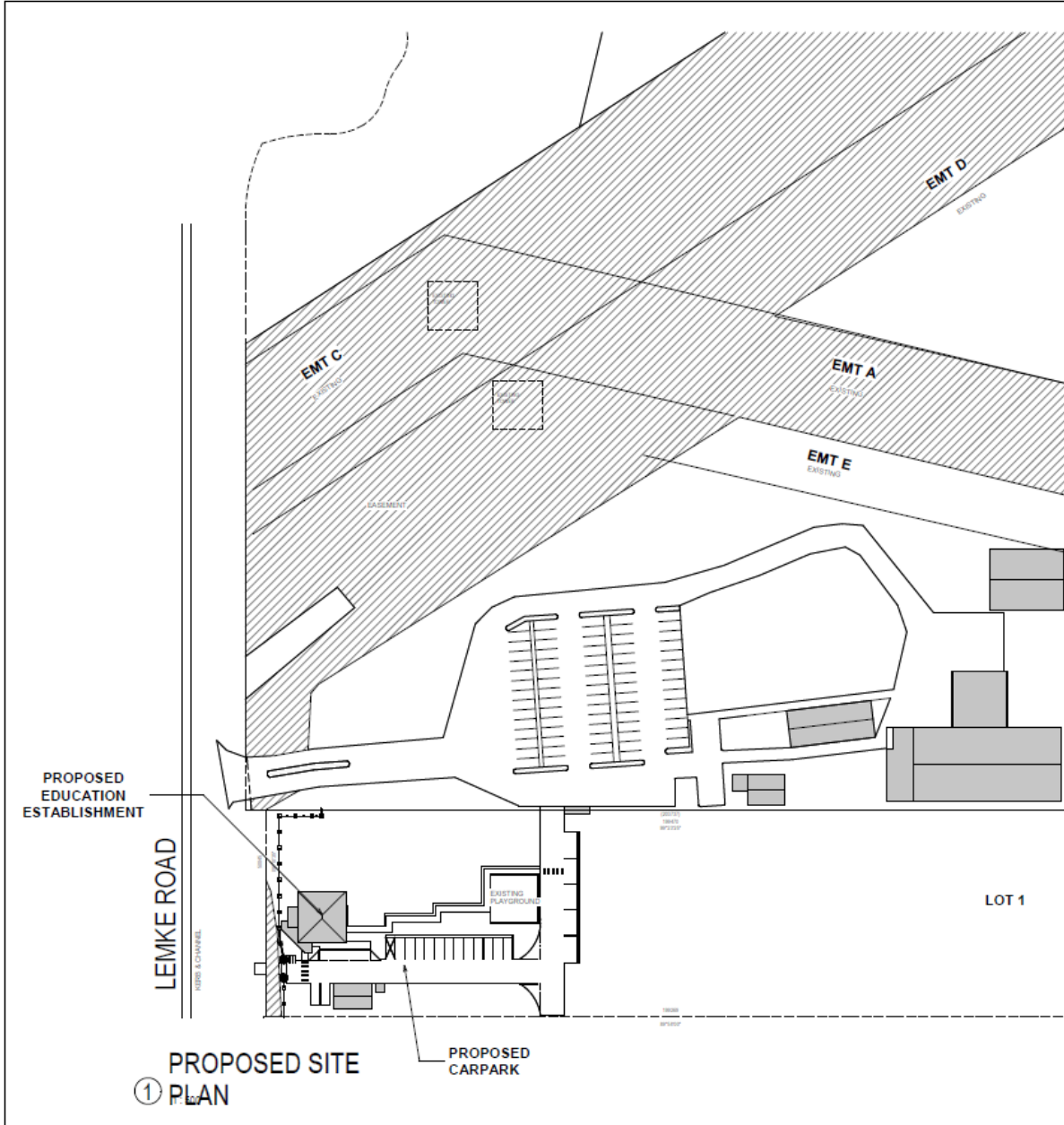
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CHECKED: SZ

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JOB NO : 3298-25

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GENERAL NOTES

- ALL BUILDINGS TO ADHERE TO NCC 2019 AND ALL RELEVANT CODES AND STANDARDS.
 - ALL ROOF DRAINAGE TO BE CONNECTED TO STREET STORMWATER LINE OR STORM SPOUT AT 1.100 GRADE. MAXIMUM 10% BETWEEN DOWN PIPES AND SERVICE MAXIMUM 80% OF ROOF AREA.
 - ALL EFFLUENT & WASTE WATER TO BE CONNECTED TO COUNCIL SEWERAGE LINE.
 - NEUTRALISE TO BE COMPLETED TO BE IN ACCORDANCE WITH A 8.358 & LOCAL AUTHORITY GUIDELINES.
 - ALL SERVICES, HEIGHTS AND DIMENSIONS TO BE CONFIRMED PRIOR TO START OF ANY WORKS.
 - SUBJECT TO DEVELOPER'S SITE DEVELOPMENT & CORNER PEGS PLUS CONFIRM ALL BUILDING SETBACK DIMENSIONS PRIOR TO START OF ANY WORK.
 - ALL DRAINAGE TO COMPLY WITH NCC REQUIREMENTS.
 - ALL FINISHED GRADING @ 1.100 FOR MINIMUM 1% SLOPE FOR DRAINAGE TO FOUNDATIONS.
 - ALL FOOTINGS TO BE IN ACCORDANCE WITH NCC REQUIREMENTS.
 - ALL PROPOSED FOUNDATIONS TO BE IN ACCORDANCE AUSTRALIAN STANDARDS 1753.1 (2002).
- CARPARK FLOOD ZONE RELATIONSHIP:
-850 FLOOD LEVEL FOR THE SITE & ELEVATION OF 4.2m AHD FOR THE 1% AEP TO BE COMPLIED WITH.
-PROPOSED CARPARK TO SATISFY MINIMUM 4.2m AHD FLOOD LEVEL TO HYDRAULIC ENGINEER'S DETAIL.

BRUSHBOX STREET

① PROPOSED SITE PLAN



A.B.N. 92-431-096-302
 G.B.S.A. Lic. No. 92213
 53 Michel Drive, Narangba QLD 4504
 Phone: 3888 2666
 Fax: 3888 2444
 Email: zenithdesignqld@gmail.com

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335
 PARISH: NA
 COUNTY: NA

PROJECT:

EDUCATION ESTABLISHMENT

CLIENT:

SINGH SABHA BRISBANE

ADDRESS:

109-115 LEMKE ROAD, TAIGUM

DRAWING:

LANDSCAPING PLAN

ISSUE DATE: 20-11-13

SHEET: 09 OF 22

SCALE (AT A1 SIZE): 1 : 400

STATUS: WORKING DRAWINGS

DRAWN: BZ, DZ
CHECKED: BZ

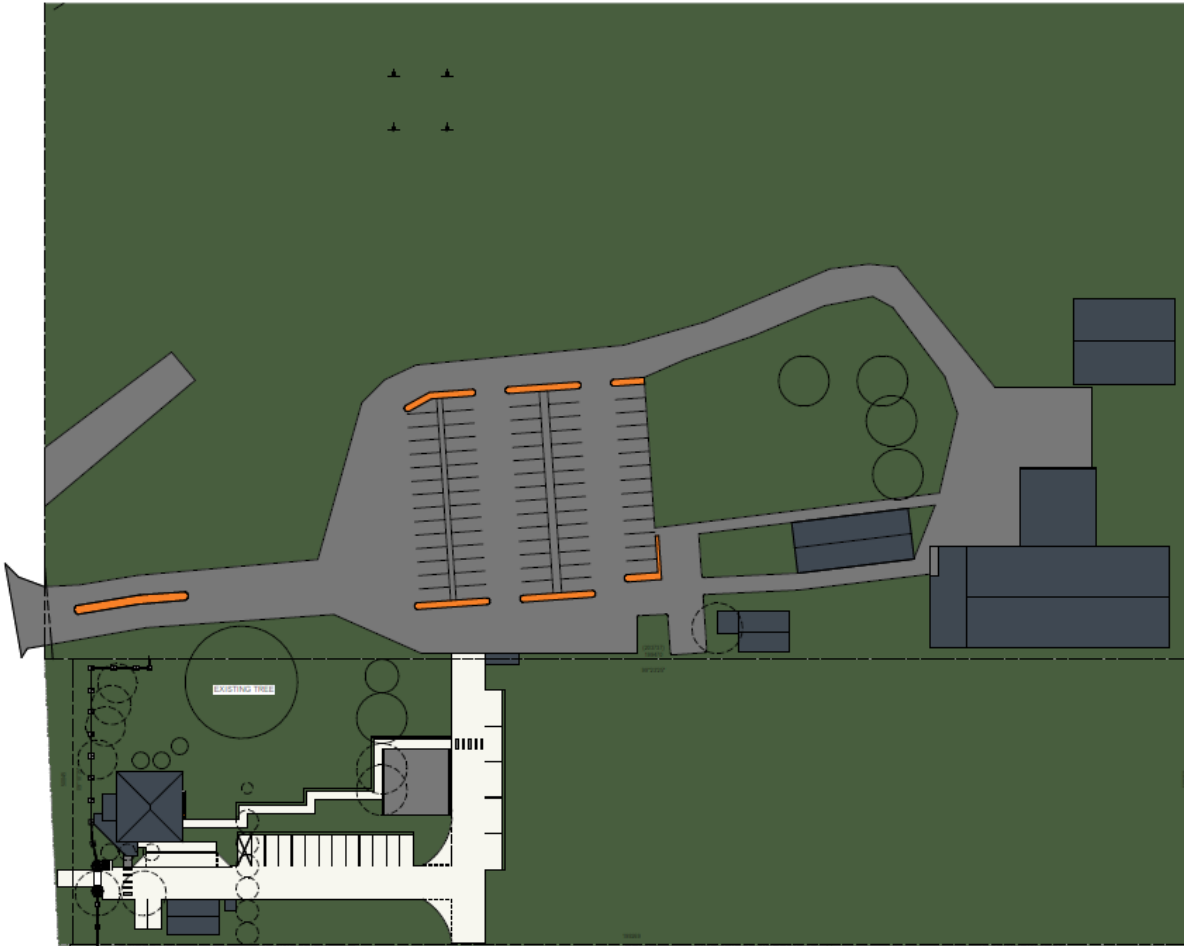
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LEMKE ROAD

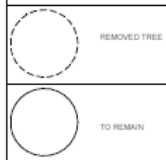
HERB & CHANDEL



HERB & CHANDEL

BRUSHBOX STREET

LEGEND



LANDSCAPING PLAN

NOTE:
 -ALL TREE LOCATIONS APPROXIMATE & TO BE CONFIRMED ON SITE



A.B.N. 92-435-096-302
G.B.S.A. Lic. No. 96219
63 Michel Drive, Naringbo QLD 4504
Phone: 3888 2566
Fax: 3888 2444
Email: zenithdesignqld@gmail.com

SCOPE OF WORK:
-EXISTING DWELLING TO HAVE CHANGE
OF USE TO BECOME EDUCATION
ESTABLISHMENT

REAL PROPERTY DESCRIPTION:
LOT 2 / LOT 1 / LOT 235

FARISH: NA
COUNTY: NA

PROJECT:
EDUCATION
ESTABLISHMENT

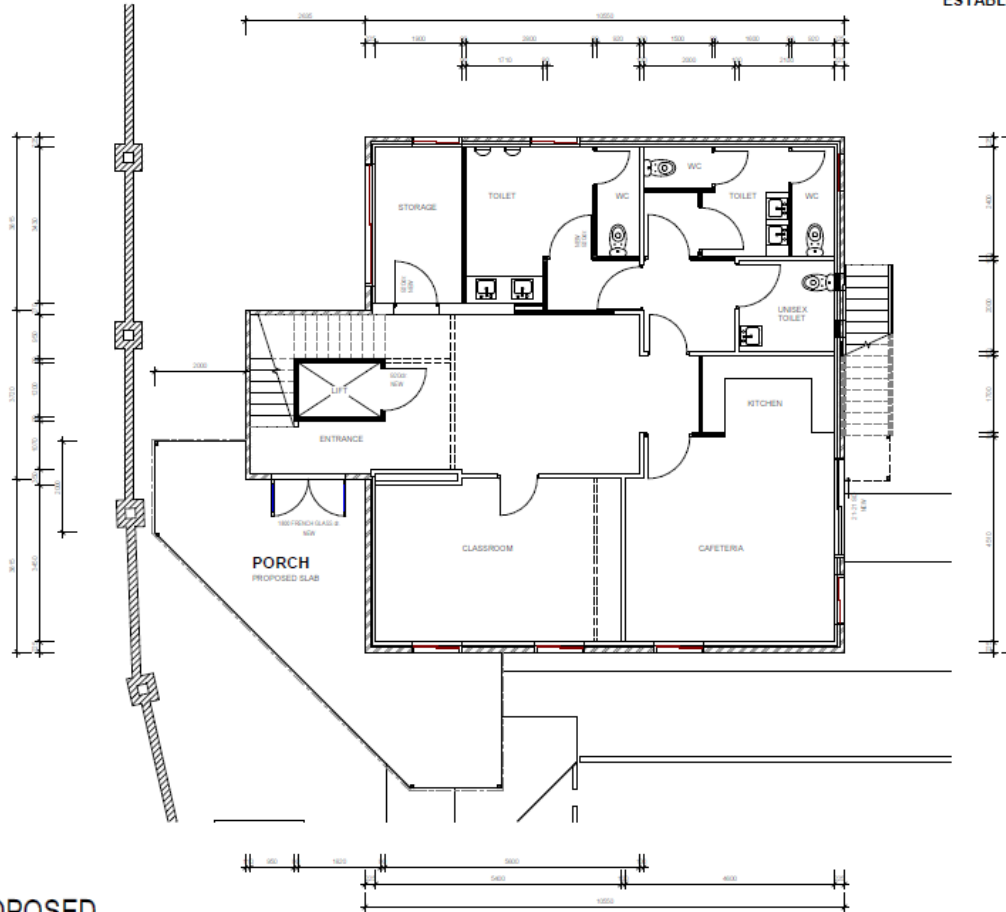
CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
EDUCATION GF

ISSUE DATE: 20-11-13

PROPOSED
① EDUCATION GF



SHEET: 10 OF 22

SCALE (AT A1 SIZE): 1 : 50

STATUS: WORKING
DRAWINGS

DRAWN: BZ, DZ
CHECKED: BZ

PLOT DATE: 14/10/2025 10:57:57 AM

JOB NO : 3298-25

COPYRIGHT ZENITH DESIGN

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335

PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
EDUCATION FF

ISSUE DATE: 20-11-13

SHEET: 12 OF 22

SCALE (AT A1 SIZE): 1 : 50

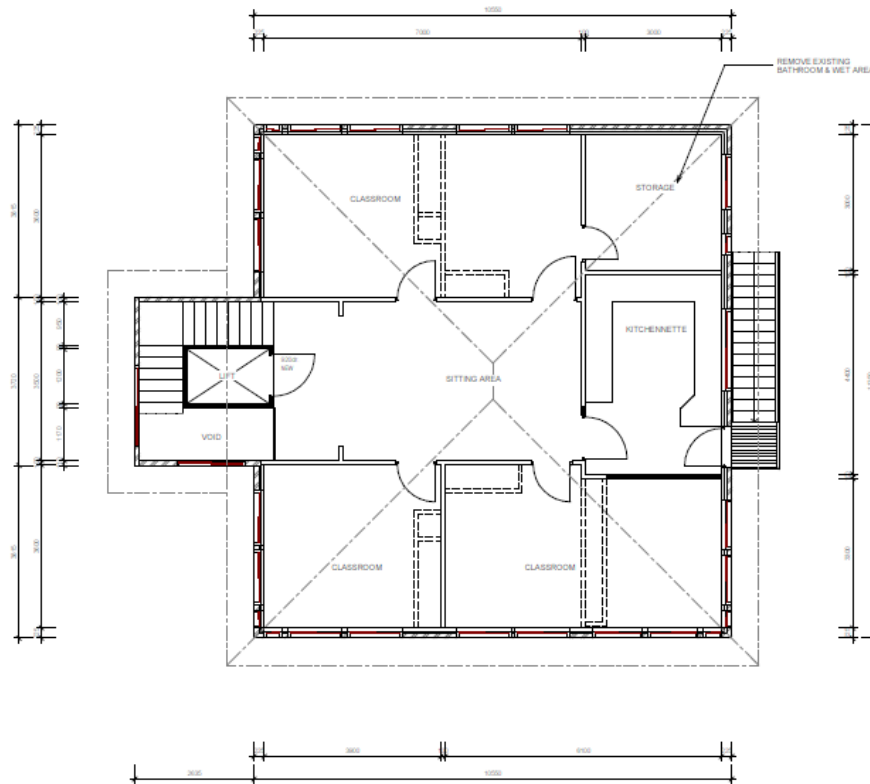
STATUS: WORKING DRAWINGS

DRAWN: BZ/DJ
CHECKED: BZ

PLOT DATE: 14/10/2023 10:57:57 AM

JOB NO : 3298-25

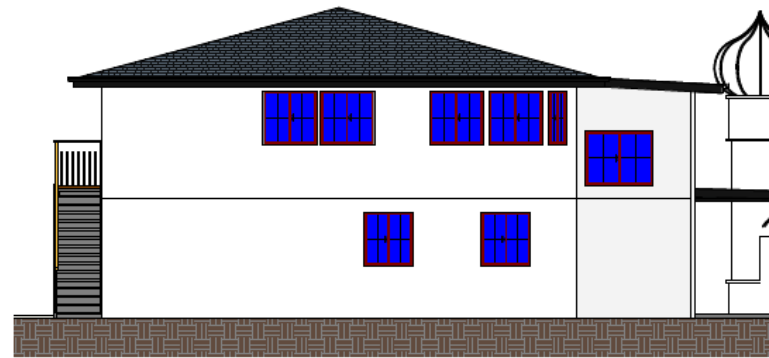
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PROPOSED
① EDUCATION FF



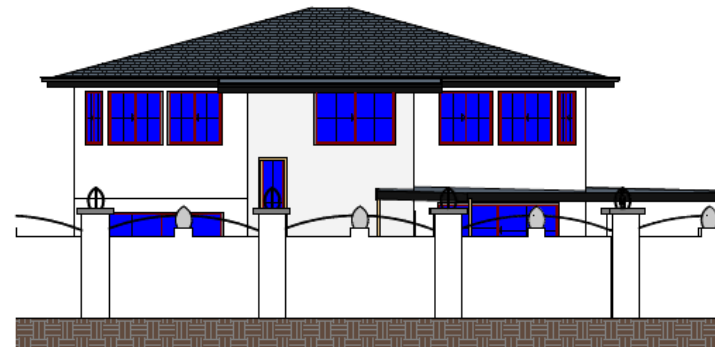
PROPOSED
① SCHOOL EAST



PROPOSED
② SCHOOL NORTH



PROPOSED
③ SCHOOL SOUTH



PROPOSED
④ SCHOOL WEST

ZENITH
DESIGN

A.B.N. 92-431-096-302
G.B.S.A. Lic. No. 46213
50 Michel Drive, Naringga QLD 4604
Phone: 3888 2566
Fax: 3888 2444
Email: zenithdesignid@gmail.com

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335

PARISH: NA
COUNTY: NA

PROJECT:
EDUCATION
ESTABLISHMENT

CLIENT:
SINGH SABHA
BRISBANE

ADDRESS:
109-115 LEMKE ROAD,
TAIGUM

DRAWING:
EDUCATION
ELEVATIONS

ISSUE DATE: 20-11-13

SHEET: 13 OF 22

SCALE (AT A1 SIZE): 1 : 50

STATUS: WORKING
DRAWINGS

DRAWN: BZ DZ
CHECKED: BZ

PLOT DATE: 14/10/2025 10:57:58 AM

JOB NO : 3298-25

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A.B.N. 92-492-096-902
 G.S.S.A. Lic. No. 96219
 50 Michel Drive, Naringga QLD 4504
 Phone: 3888 2556
 Fax: 3888 2444
 Email: zenithdesignqld@gmail.com

REAL PROPERTY DESCRIPTION:

LOT 2 / LOT 1 / LOT 335
 PARISH: NA
 COUNTY: NA

PROJECT:

EDUCATION ESTABLISHMENT

CLIENT:

SINGH SABHA BRISBANE

ADDRESS:

109-115 LEMKE ROAD, TAIGUM

DRAWING:

CARPARKING OVERALL

ISSUE DATE: 20-11-13

SHEET: 16 OF 22

SCALE (AT A1 SIZE): 1 : 200

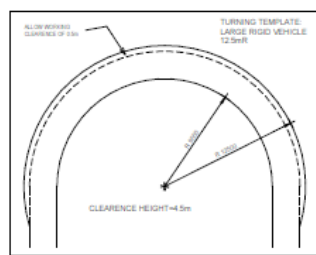
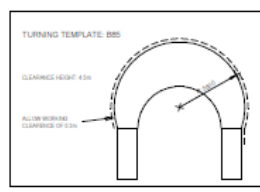
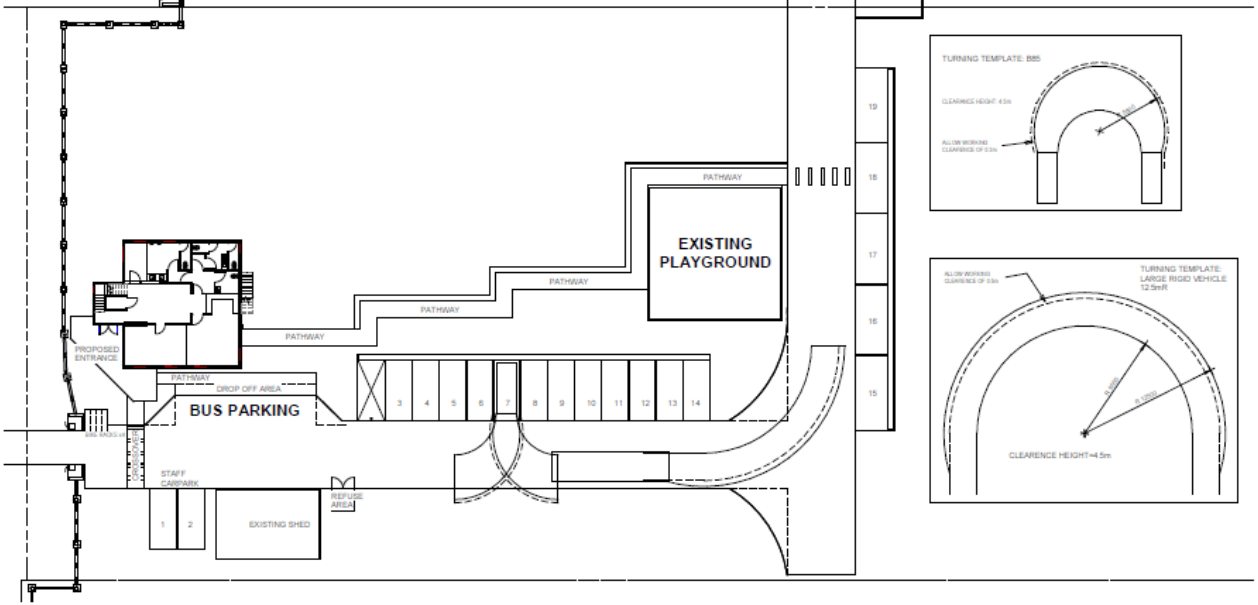
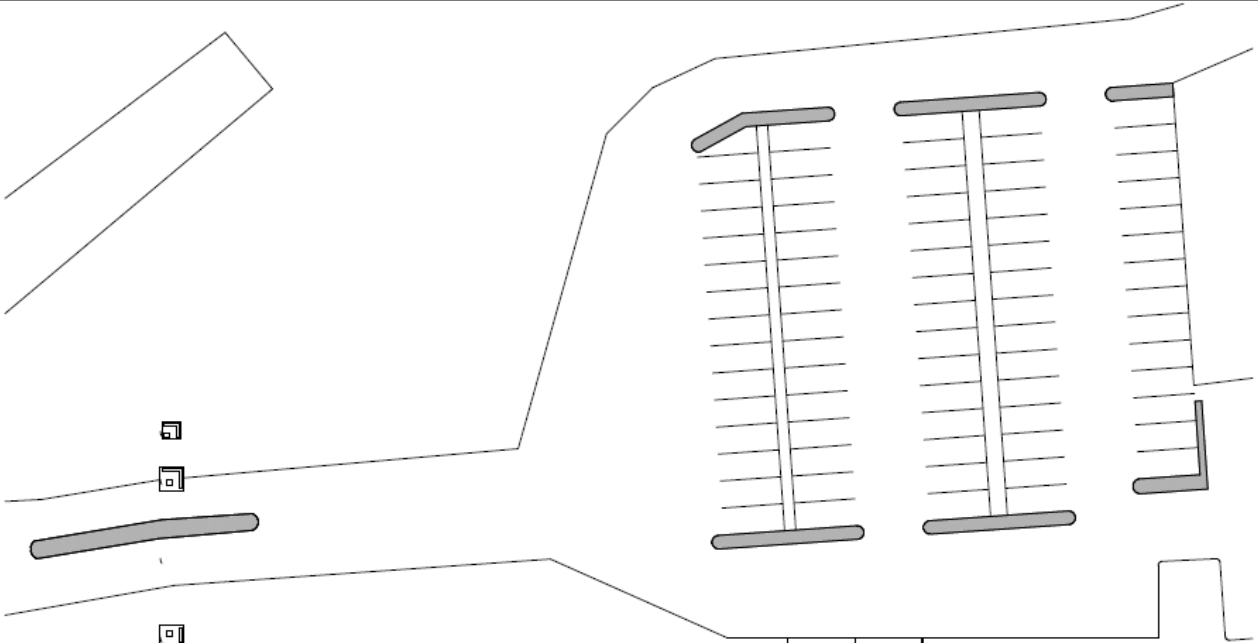
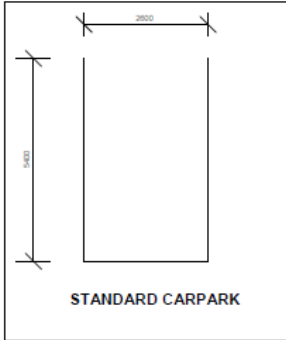
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DRAWN: SZ/DZ
CHECKED: BZ

PLOT DATE: 14/10/2015 10:58:00 AM

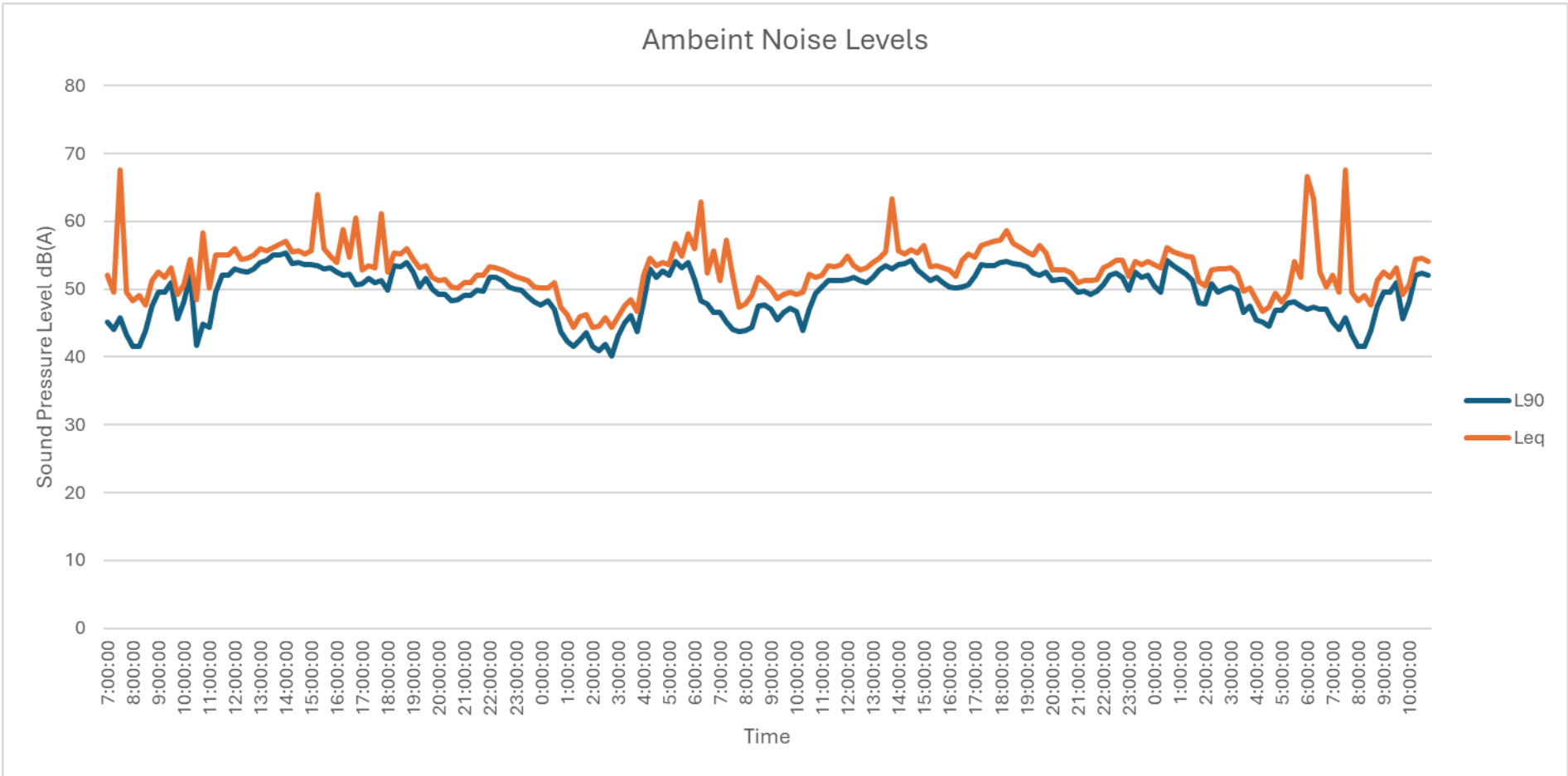
JOB NO : 3298-25

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① CARPARKING OVERALL

Noise Measurements



Point Source Calculations

Noise Impacts from Car Park

Point Source Calculations	
Talking in car park	60 at 1m
Distance to Receiver	130 m
Distance Reduction	-42.3 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	18 dB(A)

Point Source Calculations	
Car Door Closure	75 at 1m
Distance to Receiver	130 m
Distance Reduction	-42.3 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	33 dB(A)

Point Source Calculations	
Car Start Up	71 at 1m
Distance to Receiver	130 m
Distance Reduction	-42.3 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	29 dB(A)

Point Source Calculations	
Car Bay Pass	63 at 1m
Distance to Receiver	130 m
Distance Reduction	-42.3 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	21 dB(A)

Point Source Calculations	
Talking in car park	60 at 1m
Distance to Receiver	52 m
Distance Reduction	-34.3 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	26 dB(A)

Point Source Calculations	
Car Door Closure	75 at 1m
Distance to Receiver	52 m
Distance Reduction	-34.3 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	41 dB(A)

Point Source Calculations	
Car Start Up	71 at 1m
Distance to Receiver	52 m
Distance Reduction	-34.3 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	37 dB(A)

Point Source Calculations	
Car Bay Pass	63 at 1m
Distance to Receiver	52 m
Distance Reduction	-34.3 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	29 dB(A)

Noise Impacts from School

Point Source Calculations	
60 Children in Playground	80 at 1 m
Distance to Receiver	141 m
Distance Reduction	-42.9 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	37 dB(A)

Point Source Calculations	
Teacher Talking loudly in Classrooms	65 at 1m
Distance to Receiver	180 m
Distance Reduction	-45.1 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	20 dB(A)

Point Source Calculations	
Typing on Computer keyboard	45 at 1m
Distance to Receiver	180 m
Distance Reduction	-45.1 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	0 dB(A)

Point Source Calculations	
20 Children Reciting Lessons in Classroom	73 at 1m
Distance to Receiver	180 m
Distance Reduction	-45.1 dB(A)
Level at boundary with Low Density Zone (Boxthorn St)	28 dB(A)

Point Source Calculations	
60 Children in Playground	80 at 1 m
Distance to Receiver	72 m
Distance Reduction	-37.2 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	43 dB(A)

Point Source Calculations	
Teacher Talking loudly in Classrooms	65 at 1m
Distance to Receiver	68 m
Distance Reduction	-36.7 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	28 dB(A)

Point Source Calculations	
Typing on Computer keyboard	45 at 1m
Distance to Receiver	68 m
Distance Reduction	-36.7 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	7 dB(A)

Point Source Calculations	
20 Children Reciting Lessons in Classroom	73 at 1m
Distance to Receiver	68 m
Distance Reduction	-36.7 dB(A)
Level at boundary with Emerging Community Zone (Tamarind St)	36 dB(A)

