MATTHEW PALAVIDIS
VICTOR FATTORETTO
MATTHEW SHIELDS

Hurstville Public School

Detailed Design

SYDNEY
9 Sarah St
MASCOT NSW 2020
(02) 8339 8000

ABN 11 068 954 343
www.acousticlogic.com.au

Project ID	20190440.1
Document Title	Detailed Design
Attention To	Gardner Wetherill & Associates Pty Limited

Revision	Date	Document Reference	Prepared By	Checked By	Approved By
0	29/04/2019	20190440.1/2904A/R0/GW	GW		GW

TABLE OF CONTENTS

1 APPLICATION OF THIS SPECIFICATION

This document outlines the acoustic considerations for Hurstville Public School. The following acoustic items are designed:

- External noise source
- Building services
- Vibration isolation
- Internal noise isolation.
- Environmental noise emissions.

The design standards recommended in this document is Education Facilities Standards and Guidelines (EFSG) DG 11 Acoustics.

The following work are proposed:

- Library Extension
- Library refurbishment
- Canteen Extension
- Hall Refurbishment
- New Homebase building

2 DEPARTURES OF EFSG

Where, specific requirements have been identified as not achievable for this project and are approved by the Department of Education, then they are listed as departures in the section below:

Table 2-1 – Departures from EFSG

Requirements by EFSG	Reason of Departure from EFSG
DG11 11.05 Operable Walls: prescriptive construction operable walls between general learning areas: R_w 45	Operable walls within project buildings are of glazing sliding doors to promote flexible learning arrangements. A proprietary operable wall can achieve R_w 45 but would prevent the flexibility of learning arrangements. Glass sliding doors cannot achieve an acoustic performance of R_w 45 and will typically be limited to R_w 20.
DA11 11.06 Internal Noise Levels: Noise to internal open learning – 40 dB(A)L_{eq}	Motorised louvres at high level have been designed by this project for outside air intake, noise intrusion through the louvres cannot achieve 40 dB(A)L_{eq}. 5-dB(A) exceedance is expected.
DA11.11.06.1- Assembly Hall up to 250 seats – Reverberation Time see Note 1	The acoustic performance of extension of the hall is limited by the existing hall.

3 TRAFFIC NOISE INTRUSION

3.1 INTERNAL TRAFFIC NOISE CRITERIA

The following internal traffic noise criteria have been listed by EFSG:

Table 3-1 – Internal Noise Criteria

Space	Internal Noise Level dB(A)L_{eq}
Library – General Areas	40

3.2 RECOMMENDATION

3.2.1 Glazing

The glass thickness, design of the window mullions, perimeter seals of openable and fixed glazing, and the installation of the windows/doors in the building openings shall be selected so that the completed system reduces internal noise levels to, at, or below the scheduled maximum internal noise level criteria requirements detailed in Section above and in any case, shall meet or exceed the minimum acceptable glass thickness are marked and attached.

Table 3-2 –Minimum Glazing Performance Requirements

Space	Glazing Assembly	Acoustic Seals	Minimum STC/Rw of Installed Window
Library	10.38mm Lam	Yes	34
Hall Extension	10.38mm Lam	Yes	34
Homebase	6mm	Yes	29

Note that mohair seals in windows and doors are **not** acceptable where acoustic seals are required. Acoustic seals shall be equal to Schlegal Q-Lon.

3.2.2 Acoustic Sealing of Window Frames

Where glazing is required to achieve a nominated acoustic performance the perimeter of the window frame shall be acoustically sealed into the window opening so there is no leakage of noise between the window frame and the building opening. The sealing method selected shall take into account and allow for any movement of the window frame relative to the building opening and so that the acoustic performance is maintained.

One of the following two methods shall be used to seal the gap between the window and the building opening. These shall be followed even if there is internal or external cladding butting against the window frame.

Method 1

A 10-15mm wide gap shall be left between the window frame and the building opening.

The gap between the window frame and the building opening shall be caulked with an elastomeric sealant having a cured density of not less than 1000 kg/m^3. Minimum 10mm thick caulking shall be applied near the external face of the mullion with additional 10mm thick caulking near the inner face.

Provide backing rods and bond breaker tapes as specified or required by sealant manufacturer.

If the gap between the mullion and the building opening exceeds 15mm the gap shall be packed with 8 kg/m^3 fibreglass or polyester fibre insulation.

Method 2

A 10-15mm wide gap shall be left between the window frame and the building opening. This gap shall be covered with 3mm thick aluminium angles for all 10.38mm thick (or greater) single glazing, and 1.5mm thick angles for single glazing less than 10.38mm thickness.

The flange of the angle sections shall seat onto the building opening, and the other flange shall seat onto the window mullion. The angle flanges should be fixed in position, with the faces of the flanges seating against the mullion and building opening bedded in flexible sealant to seal all gaps.

One set of angles is required on the inside face of the window and one set is required on the outside face of the window frame.

If the gap between the mullion and the building opening exceeds 15mm the gap shall be packed with 8 kg/m^3 fibreglass or polyester fibre insulation.

3.3 ROOF CEILING

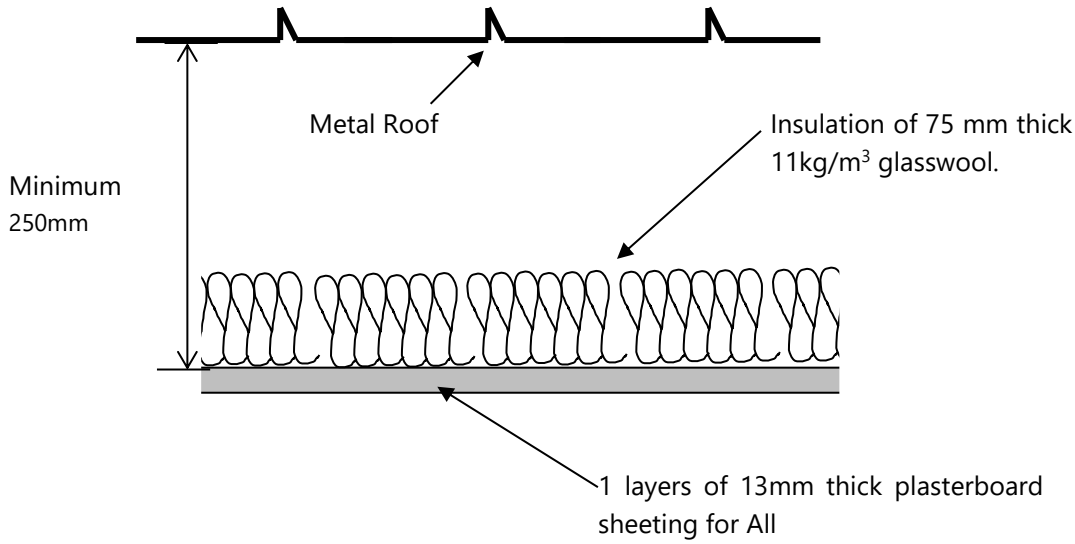
3.3.1 Rain Noise

DG11 11.02 states:

Rain noise is to be assessed only for general learning areas, music, drama, movement studios and halls or as otherwise directed.

Rain is to be assessed using the one-year annual recurrence, one-hour event for the region as reported by the Bureau of Meteorology. A recognised rain noise calculation procedure (such as Dubout, 1969 or Griffin, Ballagh, 2012) shall be used

The recommended roof/ceiling construction is shown below in Figure below.



Penetrations in ceilings (such as for light fittings etc.) must be sealed gap free with a flexible sealant. Any ventilation openings in the ceilings would need to be acoustically treated to maintain the acoustic performance of the ceiling construction.

3.4 FACADE WALLS

The facade walls can be either concrete or light weight wall structure with all penetrations sealed. The acoustic rating of walls shall be minimum Rw 45.

4 PARTITION WALLS

The design for sound insulation rating of partitions between spaces must consider:

- Adjacency of any noise generating spaces to noise sensitive rooms and achieving internal noise levels as per the requirements of EFSG DG11.
- The reduction in achieved performance from laboratory to the field.
- The background noise levels within the receiver room.

Where practical, the building layout should minimise the adjacency of noisy and noise sensitive spaces. The design sound insulation rating expressed as R_w.

4.1 NOISE ISOLATION CRITERIA

Table 4-1 – Sound Insulation Requirements (without operable walls, glazing panels) R_w

Receiving Noise Room Tolerance	**Activity Noise in Source Room**			
	Low	Average	High	Very High
High	30	35	45	55
Medium	35	40	50	55
Low	40	45	55	55
Very Low	45	50	55	60

EFSG DG11 notes the following:

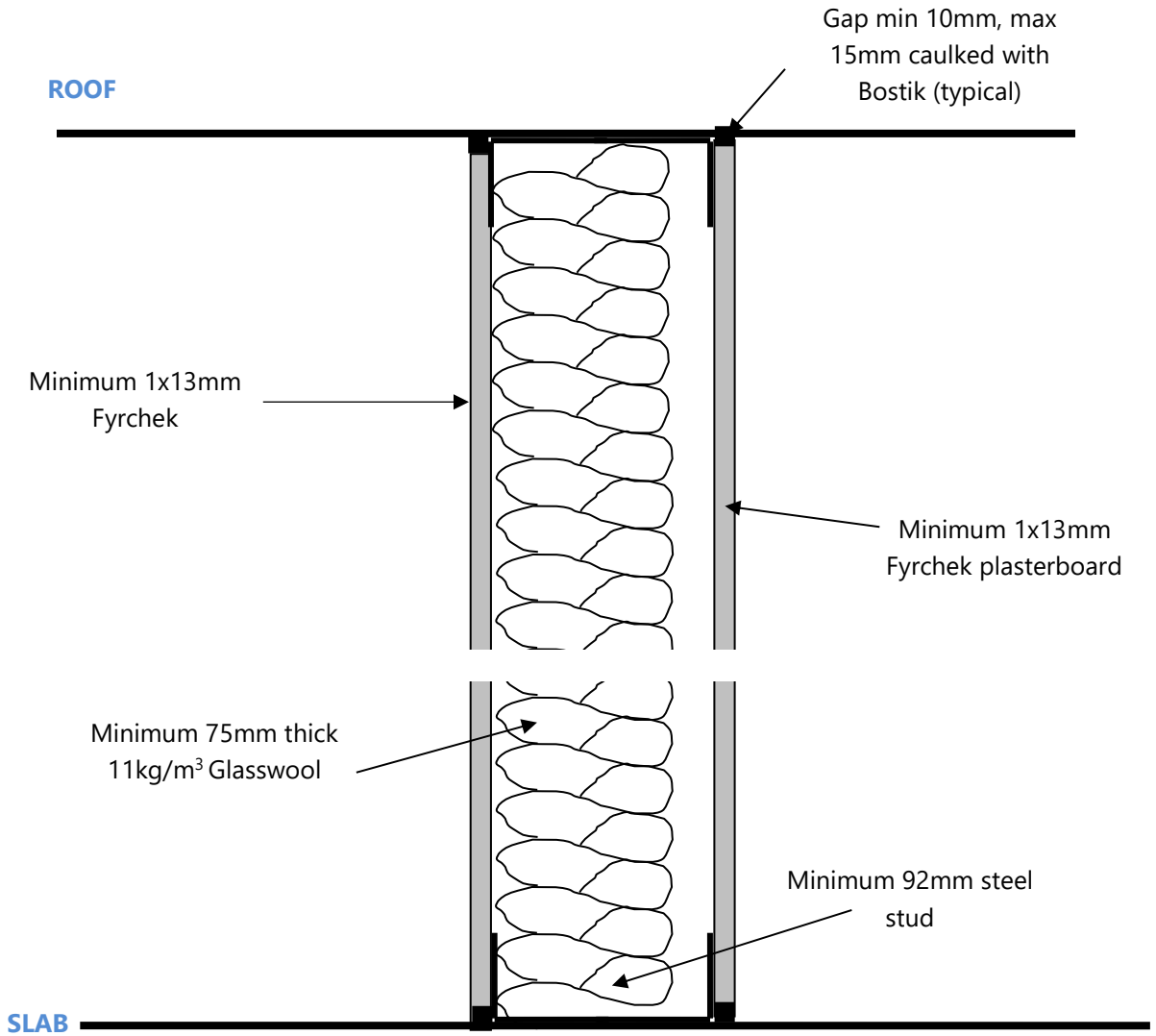
- *Operable walls (between general learning areas, all schools): R_w 45.*
- *Entry doors to occupied teaching spaces: Solid core, minimum 35mm thick with acoustic weather seals on all rebated closing faced. Gap at floor to be minimised.*
- *Internal glazed sections in walls and vision panels in or adjacent to internal doors: minimum 10.38mm laminated glass. In some situations, acoustic windows may be needed for satisfactory noise separation.*
- *Construction separating wastewater pipe work from occupied spaces: R_w 40*
- *Where adjacent to an occupied space, hydraulic pipe work and waste water pipework shall be separated from adjacent occupied space. Construction between the adjacent spaces in this instance shall be a staggered stud arrangement or otherwise discontinuous.*

4.1.1 Summarised Noise Isolation Criteria

Table 4-2 – Summarised R_w for Walls

Space	Adjacent Space	R_w
Meeting	Meeting	20 for glazing slide door
Meeting	Share Presentation	45
Meeting	Open Plan	20 for glazing slide door 45 for plasterboard walls
Presentation Space	Open Plan	20 for glazing slide door 35 for fixed glazing
Hall Extension	Canteen	55 + Discontinuous
Existing Work Room	Existing Work Room	Glazing -35 Wall-45 Door- Min 35mm thick solid core with acoustic seals on all rebated closing faces. Gap at bottom is minimized

4.2 DETAILS FOR WALLS



NOTE:

-All wall penetrations to be acoustically sealed. GPOs to have acoustic box (HPM firebox) behind

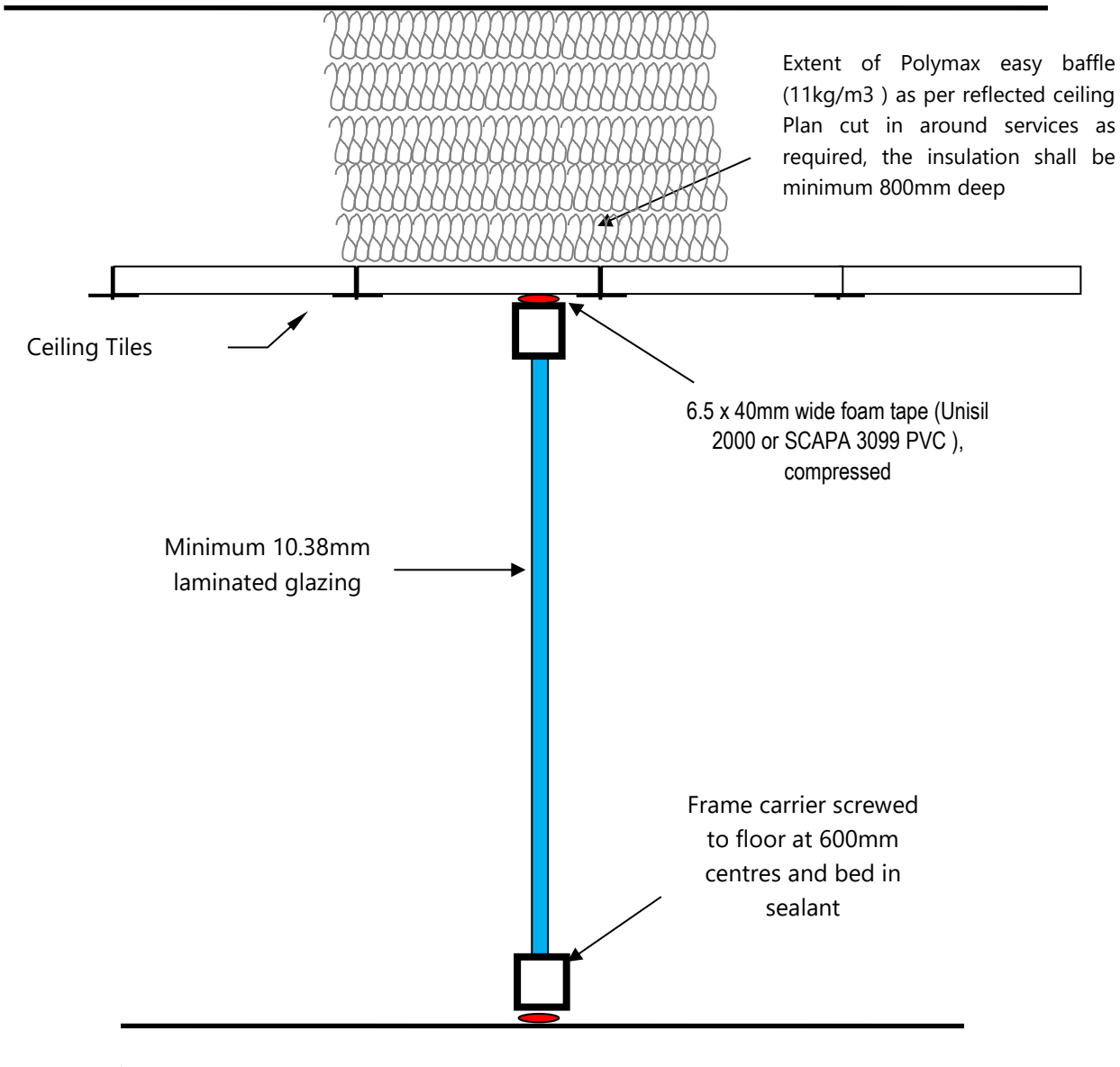
-Ceiling penetrations including mechanical ventilation grilles to be acoustically treated with plenum box to the rear of the grille with offset spigot and acoustic flexible ducting

SECTIONAL ELEVATION
R_w 45 Wall System
Full Height Wall

ACOUSTIC LOGIC

Date:	Drawn:	Checked:	Project Number:	Drawing Number:
	GW			
Issue:	Scale:	Approved:		AC001
	NTS			

SOFFIT

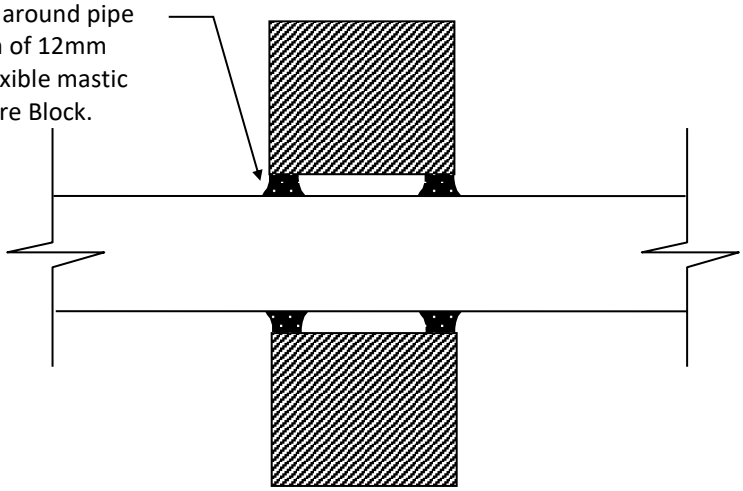


SECTIONAL ELEVATION
R_w 35 - GLAZED WALL SYSTEM

ACOUSTIC LOGIC

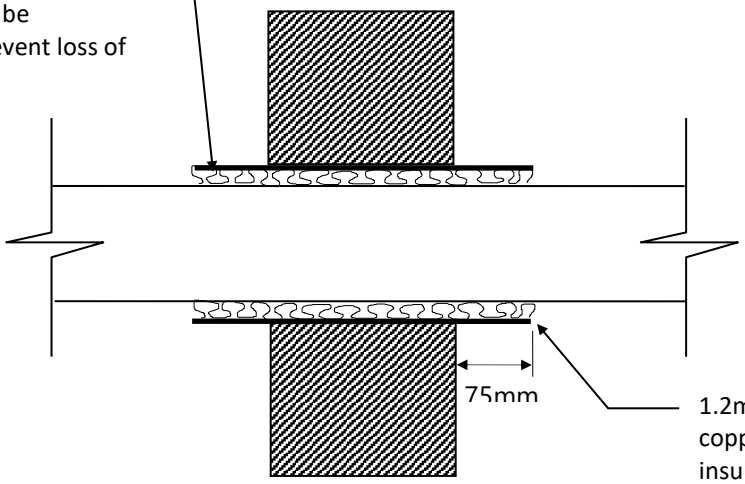
Date:	Drawn:	Checked:	Project Number:	Drawing Number:
	GW	GW		AC002
Issue:	Scale:	Approved:		
3	NTS			

10-15mm clear gap around pipe filled for min. depth of 12mm with non-setting flexible mastic similar to Selley's Fire Block.



TYPE PA PIPE SEAL

25mm thick rockwool sectional pipe sleeve insulation around pipe Rockwool is to be encapsulated to prevent loss of fibres.



1.2mm thick steel or copper sleeve around insulation grouted into wall with a non-shrinking grout.

TYPE PB PIPE SEAL

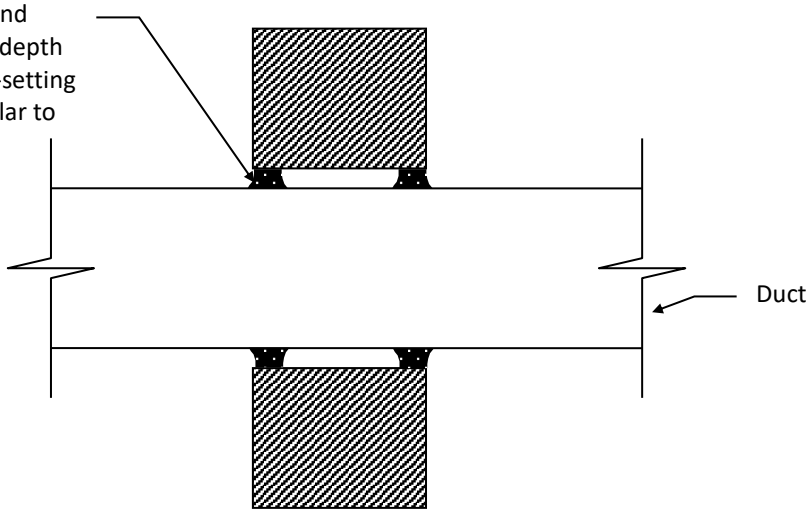
Use fire rated collars where required to meet fire rating requirements

PIPE SEALING DETAILS

ACOUSTIC LOGIC

Date:	Drawn:	Checked:	Project Number:	Drawing Number:
	GW			
Issue:	Scale:	Approved:		AC003
	NTS			

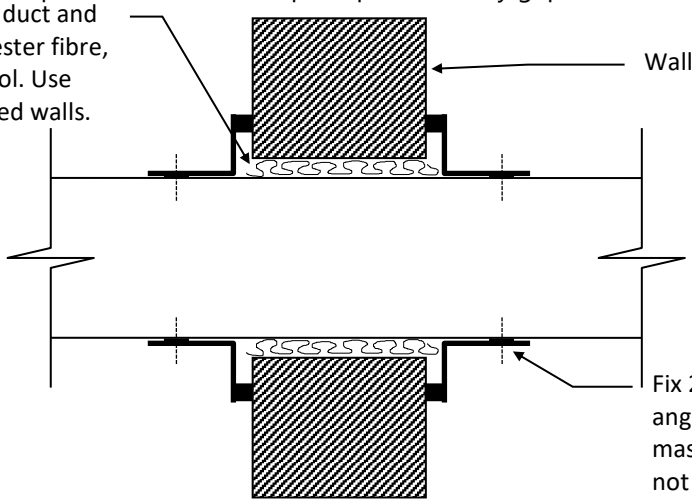
10-20mm gap around duct filled for min. depth of 12mm with non-setting flexible mastic similar to Selley's Fire Block.



TYPE DA DUCT SEAL

(Note: Typical fire damper detail is also adequate provided any gaps are sealed with Fire Block)

20mm gap between duct and wall filled with polyester fibre, fibreglass or rockwool. Use rockwool for fire rated walls.



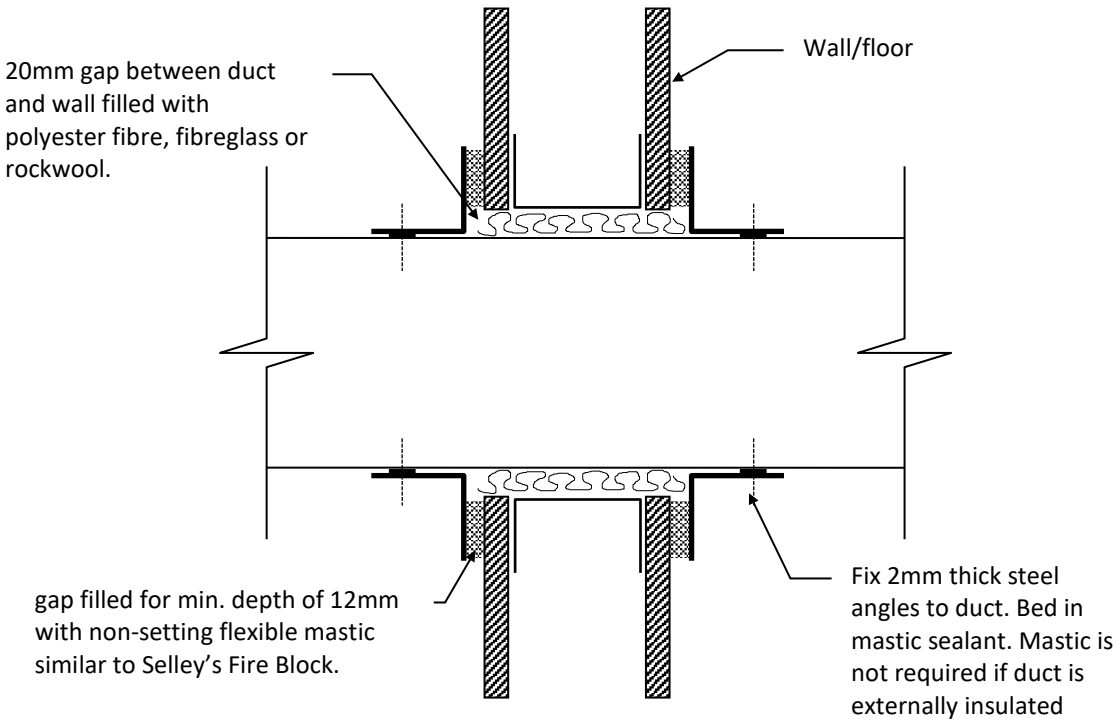
TYPE DB DUCT SEAL

(Note: Typical fire damper detail is also adequate provided flange is sealed to wall with Selley's Fire Block)

DUCT SEALING DETAILS - 1

ACOUSTIC LOGIC

Date:	Drawn:	Checked:	Project Number:	Drawing Number:
Issue:	**Scale:**	**Approved:**		AC004
	NTS			



TYPE DC DUCT SEAL

(Note: Typical fire damper detail is also adequate for fire rated walls provided flange is sealed to wall with Selley's Fire Block)

DUCT SEALING DETAILS - 2

ACOUSTIC LOGIC

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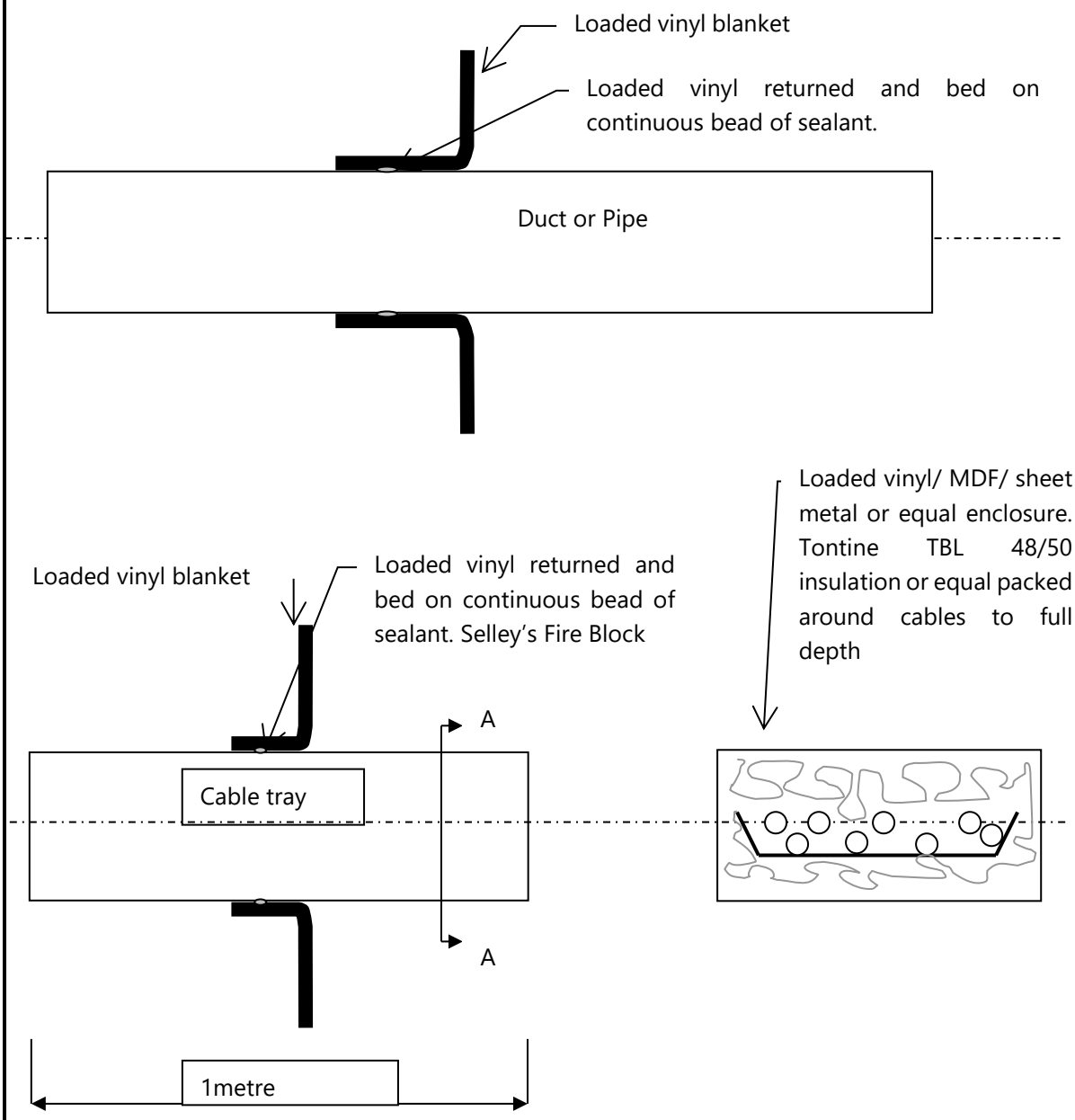
Issue:	Scale:	Approved:		AC005
	NTS			



CABLE TRAY OR PIPE THROUGH VINYL

ACOUSTIC LOGIC

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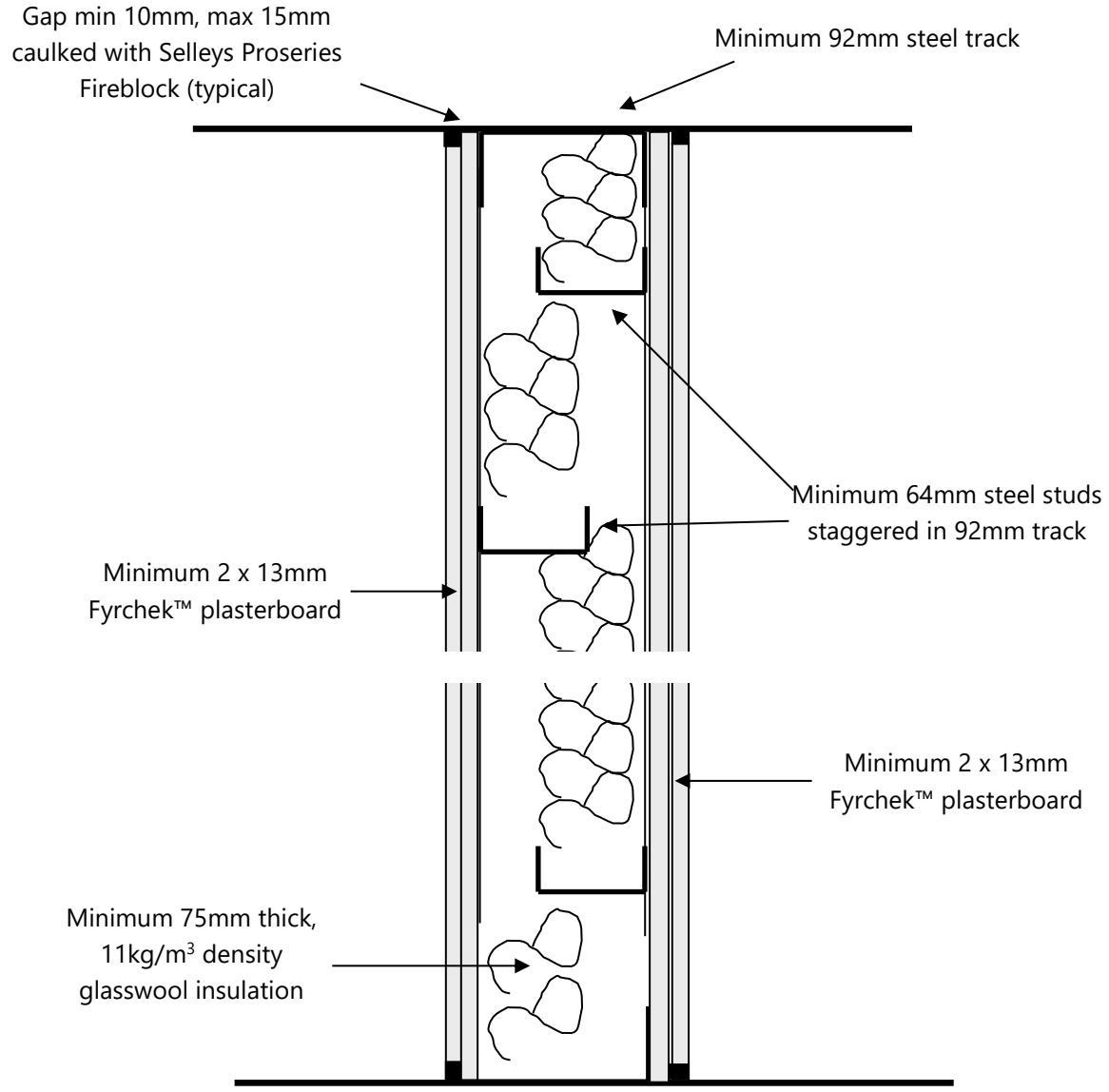
Issue:	Scale:	Approved:		
	NTS			



Note -

1. All GPOs to have acoustic/fire rated boxes behind.

2. Noggings not to bridge staggered studwork.

SECTIONAL ELEVATION HALL TO CANTEEN

R_w 55

ACOUSTIC LOGIC
9 Sarah Street, Mascot 2020
Tel: 8338 9888 Fax: 8338 8399

Date:	Drawn:	Checked:	Project No:	Drawing No:
Issue	**Scale:**	**Approved**		AC007
0	NTS			

5 ROOM ACOUSTICS- REVERBERATION TIME

5.1 CRITERIA

The following criteria have been specified in EFSG DG11:

Table 5-1 – Reverberation Time

Space	Reverberation Time
Open Plan Teaching	0.8
Presentation Room	0.6
Work Room	0.8
Library	0.6

Generally, post occupancy evaluation of room acoustics would only take place in spaces with a specified reverberation time. Reverberation time would be reported as the arithmetic average values at 500 Hz and 1000 Hz rounded to the nearest 0.1 of second.

5.2 RECOMMENDED ACOUSTIC CONTROLS

Reverberation time analysis has been carried out based on the architectural drawings provided to this office, the following additional acoustic treatments are recommended.

5.2.1 Open Teaching Plan, Presentation Room, Meeting Room

- Carpet tiled floors with underlay.
- Install 24mm thick Echopanel to 50% of ceiling which can provide sound absorption coefficient as below.

Table 5-2 –Practical Sound Absorption Coefficients

Frequency (Hz)	125	250	500	1000	2000	4000
α	0.05	0.15	0.55	0.85	0.95	0.95

5.2.2 Work Rooms

- Carpet tiled floors with underlay.
- Install 25mm thick Ecoustic panel Pinboard from 0.9m to 2.4m high on available walls.

5.2.3 Library Extension

- Carpet tiled floors with underlay.
- Install 24mm thick Echopanel to 50% of ceiling which can provide sound absorption coefficient as below.

Table 5-3 –Practical Sound Absorption Coefficients

Frequency (Hz)	125	250	500	1000	2000	4000
α	0.05	0.15	0.55	0.85	0.95	0.95

6 MECHANICAL NOISE

6.1 INTERNAL PLANT NOISE

Draft Thermal Comfort and Indoor Air Quality Interim Performance Brief by School Infrastructure NSW details below:

Table 6-1 – Internal Noise Criteria

Space	Internal Noise Level dB(A)L_{eq}
Study Rooms	45
Open Plan Teaching Areas	40
Teaching Space (Primary and Secondary Schools)	40
Library	45

6.2 EXTERNAL PLANT NOISE LEVELS

The lowest background noise levels recommended by EPA Noise Policy for Industry 2017 is detailed below:

Table 6-2 – Rating Background Noise Level

Time	Minimum Background Noise Level dB(A)
Day	35
Evening	30
Night	30

6.2.1 Noise Emission Limit

The noise emission shall satisfy the requirements of EPA NPfI 2017 which includes intrusiveness criteria and amenity criteria. The noise limit has been summarised below:

Table 6-3 – External Noise Emission Limit

Location	Time	Noise Limit dB(A)L_{eq}
Residential Boundaries	Day	40
	Evening	35
	Night	Not operation

6.3 SPECIFIC NOISE CONTROLS

Noise emission analysis has been carried out by this office and the following acoustic treatments are recommended:

Note: equipment not listed below is unknown to this office and a separate acoustic review is recommended before installation.

6.3.1 AC -1 to AC-11

- Add 75mm thick 11kg/m^3 Glasswool insulation between FCU and plasterboard ceiling, the insulation shall be extended 1m radius from footprint of FCU.
- Vibration isolate the FCU by NRD mounts or equal.
- Acoustic flexi shall be used for SA side.
- RA side: two bends – internally lined by 25mm thick insulation and acoustic flexi used between grille and RA ductwork.

6.3.2 Outdoor AC

- No operation during night.
- Vibration isolate the AC by NRD mounts.
- Install silencer on discharge side: details shall be determined based on noise data.

6.3.3 Toilet Exhaust Fan

- No noise data available.

7 CONCLUSION

Acoustic design has been carried out for the proposed extension / addition/ refurbishment of Hurstville Public School.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,

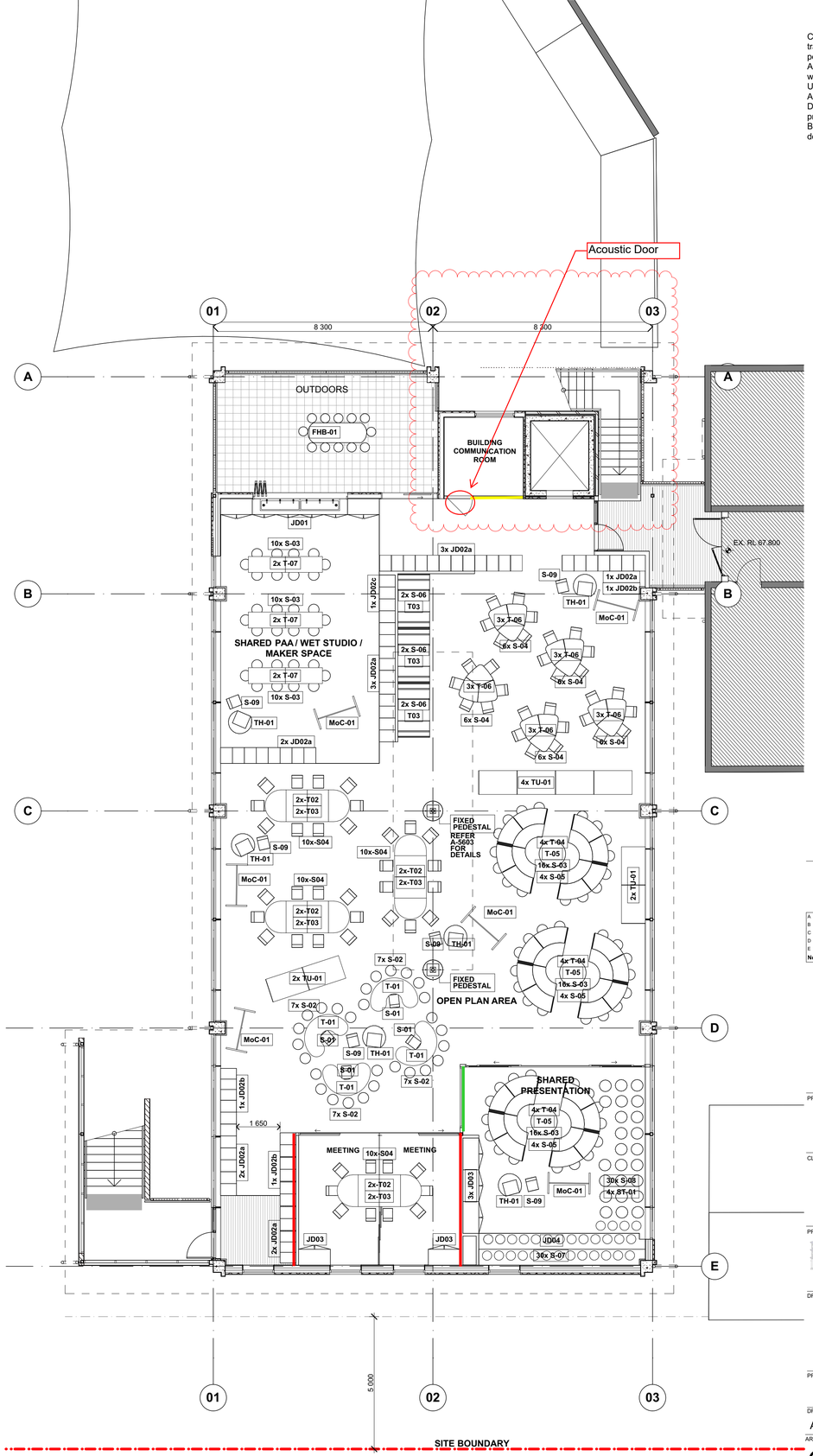
Acoustic Logic Consultancy Pty Ltd
George Wei

Appendix- Acoustic Markup

Rw 45 Walls

Rw 35 Glazing

Rw 55 wall + Discontinuous



No	Initial	DATE	REVISION DETAILS
A	HK	4/10/2018	PRELIMINARY ISSUE
B	HK	11/10/2018	RFT ISSUE
C	HK	31/10/2018	PRELIMINARY ISSUE
D	HK	26/11/2018	REVISED RFT ISSUE
E	CBs	12/12/2018	ADDENDUM 1

1:100 @ ORIGINAL SIZE

0 1 3 6 10m

PROJECT MANAGER

ROOT PARTNERSHIPS
Advisory+ Project Management

CLIENT

NSW GOVERNMENT Education
School Infrastructure

PROJECT

Hurstville Public School
80 Forest Road Hurstville NSW 2220

DRAWING TITLE

Ground Floor Fit Out Plan - New Homebase

PROJECT No	DRAWING No	REVISION
18020 HPS	A-1811	E

DRAWING SCALE	SHEET SIZE	DRAWN	CHECKED	DATE
As Shown	A1	CB & HK	RG	12/12/2018

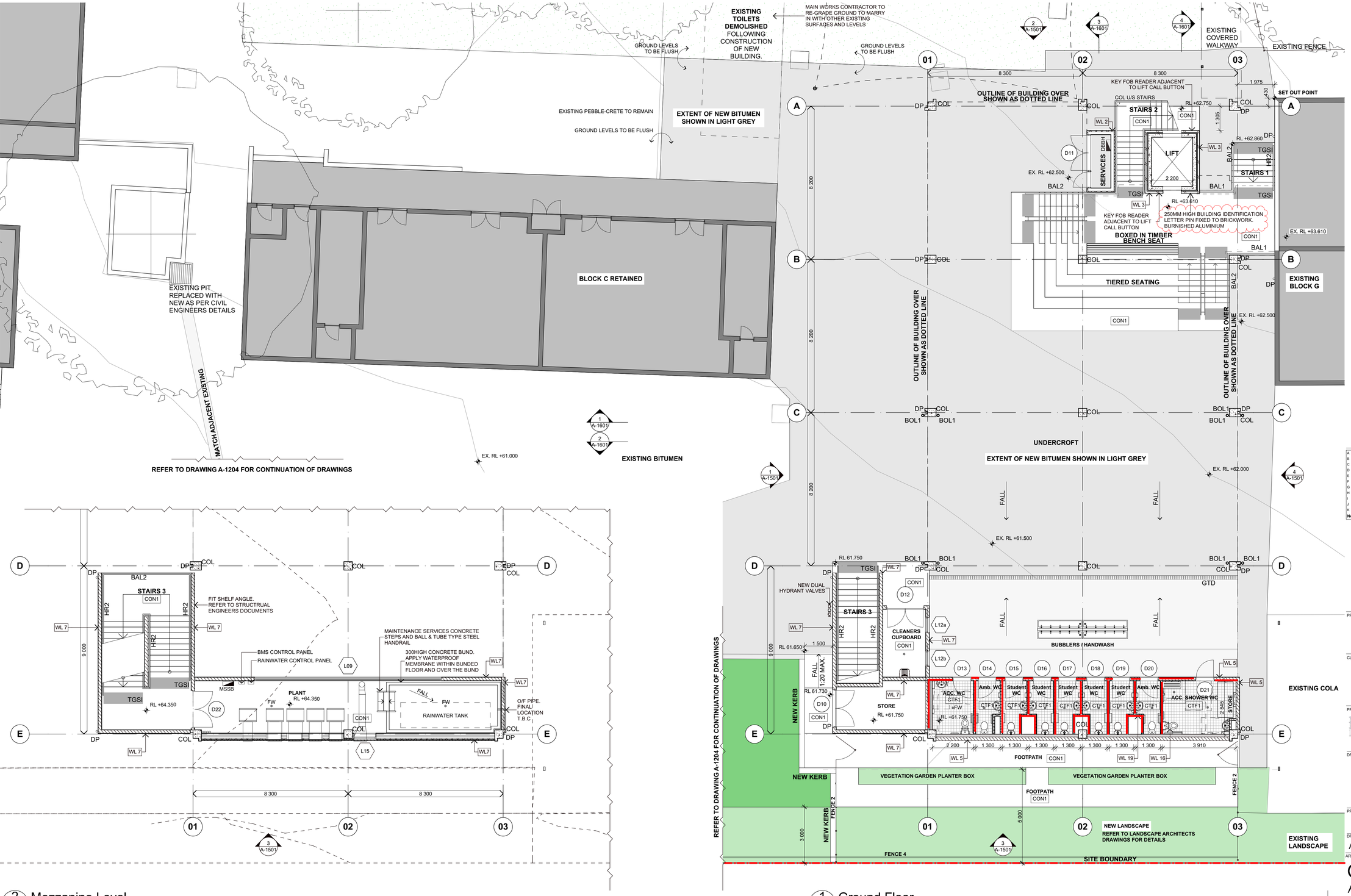
ARCHITECT

GARDNER WETHERILL ASSOCIATES
T (02) 9929 6777
F (02) 9929 3999
E design@gardnerwetherill.com.au
LEVEL 2 Suite 2.01
460 Pacific Highway
St Leonards 2065
A.C.N. 104 476 833
Nominated Architect - Alistair Ross Gardner (Reg No. 3949)

1 First floor
SCALE - 1:100

TENDER ADDENDUM ISSUE

REFER TO DRAWING A-1205 FOR CONTINUATION OF DRAWINGS



TAGS & HATCHING

- WL 1 — DENOTES A WALL, PARTITION OR CLADDING SYSTEM. REFER TO 4100 SERIES DRAWINGS FOR MORE DETAILS.
- XXXX — DENOTES A FITTING, FIXTURE OR FINISH CODE. REFER TO THE RELEVANT SCHEDULE FOR DETAILS
- AREAS UNAFFECTED BY WORK OR EXISTING ITEMS TO REMAIN SHOWN SHADED IN GREY
- D01 — DOOR ELEMENT. REFER TO DOOR SCHEDULE FOR DETAILS.
- W01 — WINDOW ELEMENT. REFER TO WINDOW SCHEDULE FOR DETAILS.
- L01 — LOUVRE ELEMENT. REFER TO WINDOW SCHEDULE FOR DETAILS.

BAL -	BALUSTRADE TYPE
BOL1	BOLLARD TYPE REFER TO CIVIL ENGINEERS DRAWINGS
COL	COLUMN
CON -	CONCRETE FINISH TYPE
CPT -	CARPET TYPE
CTF -	CERAMIC TILE TYPE
DP	DOWNPIPE
GTD	GRATED DRAIN
HR -	HANDRAIL TYPE
SP	STEEL POST
ROOF -	ROOF TYPE
RV -	ROOF VENTILATOR
TGSI	TACTILE GROUND SURFACE INDICATORS
VNL -	VINYL FINISH TYPE

GENERAL NOTES

1.0 FLOOR FINISHES
1.1 REFER FINISHES SCHEDULE FOR SKIRTING TYPES

2.0 WALL SETOUTS
2.1 SETOUT OF WALLS HAS BEEN PROVIDED AS FOLLOWS
PARTITIONS: TO THE FACE OF STUD WALLS.
MASONRY: TO THE FACE OF BLOCK/BRICK/CONCRETE WALLS
2.2 SETOUT DIMENSIONS SHOWN IN BLUE.

3.0 DOOR SETOUTS
3.1 GENERALLY DOORS ARE TO BE SET OUT FROM THE ADJACENT WALL SO AS TO COMPLY WITH THE CLEARANCE ZONES NOTED IN AS 1428.1 AND TO ENSURE THAT THE DOOR HANDLE IS AT LEAST 10MM CLEAR OF THE FINISHED WALL SURFACE WHEN THE LEAF IS IN A 90° OPEN POSITION.

4.0 ROOF WORKS
4.1 CONTRACTOR IS TO INSTALL ROOF SAFETY ANCHOR AND FALL ARREST SYSTEM COMPLIANT TO COMPLY WITH THE REQUIREMENTS OF SECTION J8 OF THE NCC PART 2, AS 1891.4 AND THE ARCHITECTURAL SPECIFICATIONS AS NOTED. SUFFICENT VERTICAL ACCESS POINTS SHOULD BE PROVIDED TO AREAS NOT READILY ACCESSIBLE.
4.2 ALL SCREWS TO BE COLOUR MATCHED ROOF SHEETING.
4.3 PROVIDE PROFILED FILLER STRIPS (CLOSED CELL POLYURETHANE FOAM) UNDER ALL FLASHINGS AND CAPPINGS.
4.4 FILL ALL GAPS BETWEEN FASCIAS EAVES AND EXTERNAL WALLS
4.5 PREFORM ALL CAPPINGS / FASCIAS
4.6 FULLY SARK UNDER ALL METAL ROOF SHEETING. PROVIDE THERMAL BREAKS AS REQUIRED BY SECTION J.
4.7 PROVIDE SEPARATION TO DISSIMILAR METALS.

5.0 WALL FINISHES
5.1 GENERALLY, PNB LINING TO ALL HOMEBASES AND LIBRARY RESOURCE CENTRE WALLS. REFER TO INTERNAL ELEVATIONS FOR EXTENT AND COLOUR CODES.

6.0 MECHANICAL WORKS
SALVAGE ALL EXISTING A/C UNITS AND ASSOCIATED CONDENSOR & PLACE IN STORAGE, UNLESS NOTED OTHERWISE.

7.0 SECURITY NOTES
ALL ACCESS CONTROLS AND ALARAM CONTROLS MUST BE INSTALLED AS PER THE SCHOOL SECURITY UNIT'S INSTALLATION GUIDELINES AND SPECIFICATIONS.

No	Initial	DATE	REVISION DETAILS
A	HKi	28/09/2018	PRELIMINARY ISSUE
B	HKi	2/10/2018	PRELIMINARY ISSUE
C	HKi	4/10/2018	PRELIMINARY ISSUE
D	HKi	9/10/2018	PRELIMINARY ISSUE
E	HKi	11/10/2018	RFT ISSUE
F	HKi	19/11/2018	ISSUE TO CONSULTANTS FOR COORDINATION
G	HKi	26/11/2018	REVISED RFT ISSUE
H	HKi	4/12/2018	ISSUE TO CONSULTANTS FOR COORDINATION
I	CBu	14/12/2018	ADDENDUM 1
J	CBu	23/01/2019	ADDENDUM 2
K	CBu	5/02/2019	ADDENDUM 3

1:100 @ ORIGINAL SIZE
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ROOT PARTNERSHIPS Advisory+ Project Management

CLIENT
NSW GOVERNMENT Education School Infrastructure

PROJECT
HURSTVILLE PUBLIC SCHOOL
Hurstville Public School
80 Forest Road Hurstville NSW 2220

DRAWING TITLE
Ground Floor Plan - Homebase

PROJECT No	DRAWING No	REVISION
18020 HPS	A-1201	K

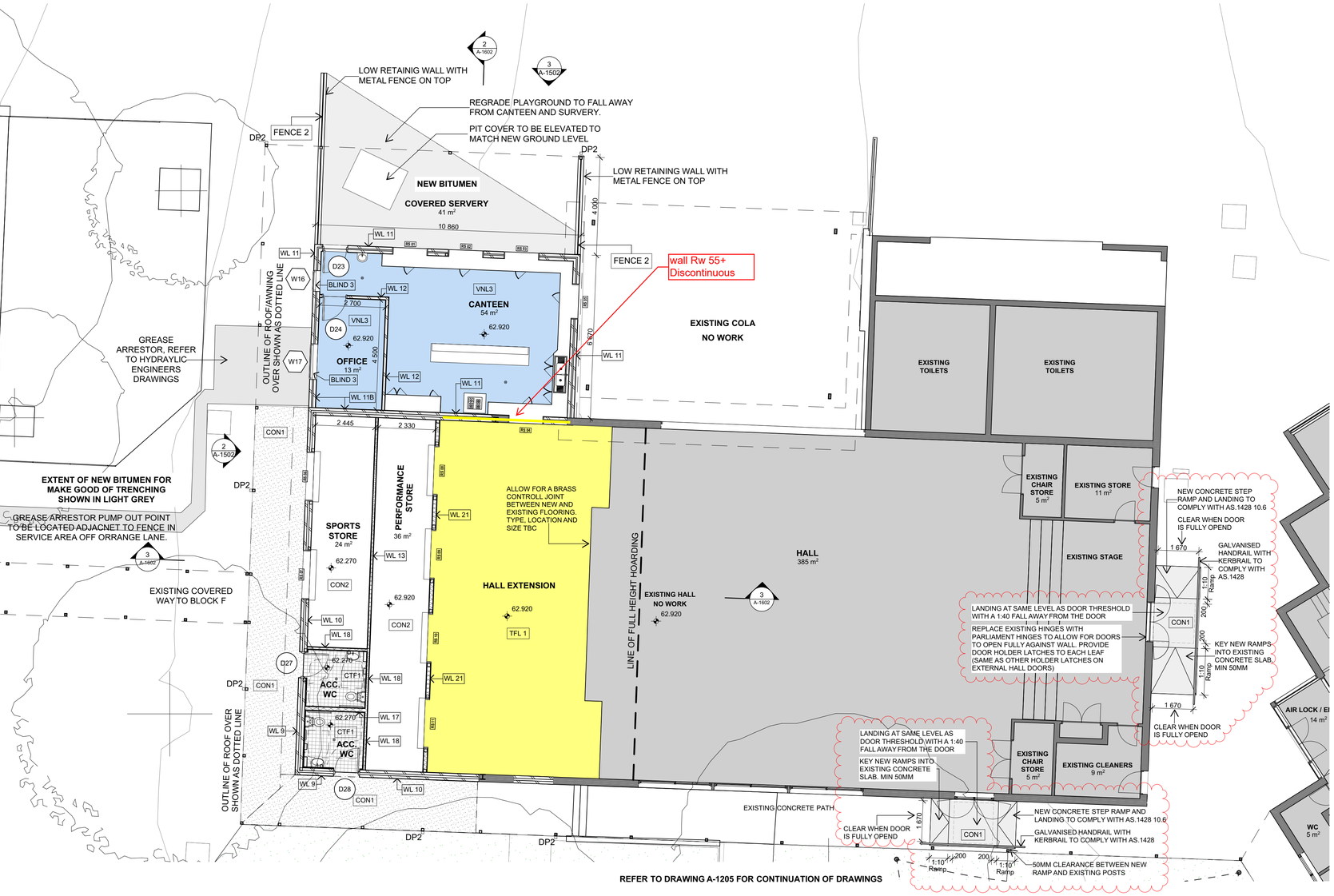
DRAWING SCALE	SHEET SIZE	DRAWN	CHECKED	DATE
As Shown	A1	CB & HK	RG	5/02/2019

ARCHITECT
GARDNER WETHERILL ASSOCIATES
T (02) 9929 6777
F (02) 9929 3999
E design@gardnerwetherill.com.au
A.C.N. 104 476 833
LEVEL 2 Suite 2.01
460 Pacific Highway
St Leonards 2065
Nominated Architect - Alistair Ross Gardner (Reg No. 9949)

2 Mezzanine Level
SCALE - 1:100

1 Ground Floor
SCALE - 1:100

TENDER ADDENDUM ISSUE



1 Ground Floor Hall and Canteen
SCALE - 1:100

BIM Server: GWABIM1 - BIM Server 21/18020 Hurstville P S

TENDER ADDENDUM ISSUE

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VNL -	VINYL FINISH TYPE

GENERAL NOTES

1.0 FLOOR FINISHES
1.1 REFER FINISHES SCHEDULE FOR SKIRTING TYPES

2.0 WALL SETOUTS
2.1 SETOUT OF WALLS HAS BEEN PROVIDED AS FOLLOWS
PARTITIONS: TO THE FACE OF STUD WALLS.
MASONRY: TO THE FACE OF BLOCK/BRICK/CONCRETE WALLS
2.2 SETOUT DIMENSIONS SHOWN IN BLUE.

3.0 DOOR SETOUTS
3.1 GENERALLY DOORS ARE TO BE SET OUT FROM THE ADJACENT WALL SO AS TO COMPLY WITH THE CLEARANCE ZONES NOTED IN AS 1428.1 AND TO ENSURE THAT THE DOOR HANDLE IS AT LEAST 10MM CLEAR OF THE FINISHED WALL SURFACE WHEN THE LEAF IS IN A 90° OPEN POSITION.

4.0 ROOF WORKS
4.1 CONTRACTOR IS TO INSTALL ROOF SAFETY ANCHOR AND FALL ARREST SYSTEM COMPLIANT TO COMPLY WITH THE REQUIREMENTS OF SECTION J8 OF THE NCC PART 2, AS 1891.4 AND THE ARCHITECTURAL SPECIFICATIONS AS NOTED. SUFFICENT VERTICAL ACCESS POINTS SHOULD BE PROVIDED TO AREAS NOT READILY ACCESSIBLE.
4.2 ALL SCREWS TO BE COLOUR MATCHED ROOF SHEETING.
4.3 PROVIDE PROFILED FILLER STRIPS (CLOSED CELL POLYURETHANE FOAM) UNDER ALL FLASHINGS AND CAPPINGS.
4.4 FILL ALL GAPS BETWEEN FASCIAS EAVES AND EXTERNAL WALLS
4.5 PREFORM ALL CAPPINGS / FASCIAS
4.6 FULLY SARK UNDER ALL METAL ROOF SHEETING. PROVIDE THERMAL BREAKS AS REQUIRED BY SECTION J.
4.7 PROVIDE SEPARATION TO DISSIMILAR METALS.

5.0 WALL FINISHES
5.1 GENERALLY, PNB LINING TO ALL HOMEBASES AND LIBRARY RESOURCE CENTRE WALLS. REFER TO INTERNAL ELEVATIONS FOR EXTENT AND COLOUR CODES.

6.0 MECHANICAL WORKS
SALVAGE ALL EXISTING A/C UNITS AND ASSOCIATED CONDENSOR & PLACE IN STORAGE, UNLESS NOTED OTHERWISE.

7.0 SECURITY NOTES
ALL ACCESS CONTROLS AND ALARAM CONTROLS MUST BE INSTALLED AS PER THE SCHOOL SECURITY UNIT'S INSTALLATION GUIDELINES AND SPECIFICATIONS.

No	Initial	DATE	REVISION DETAILS
B	HKi	2/10/2018	PRELIMINARY ISSUE
C	CBu	5/10/2018	UPDATED GENERALLY FROM CO-ORDINATION
D	HKi	9/10/2018	PRELIMINARY ISSUE
E	HKi	11/10/2018	RFT ISSUE
F	HKi	19/11/2018	ISSUE TO CONSULTANTS FOR COORDINATION
G	HKi	26/11/2018	REVISED RFT ISSUE
H	CBu	5/12/2018	FOR COORDINATION
I	CBu	14/12/2018	ADDENDUM 1
J	CBu	23/01/2019	ADDENDUM 2
K	CBu	5/02/2019	ADDENDUM 3

1:100 @ ORIGINAL SIZE
0 1 3 6 10m

PROJECT MANAGER
ROOT PARTNERSHIPS
Advisory+ Project Management

CLIENT
NSW GOVERNMENT Education School Infrastructure

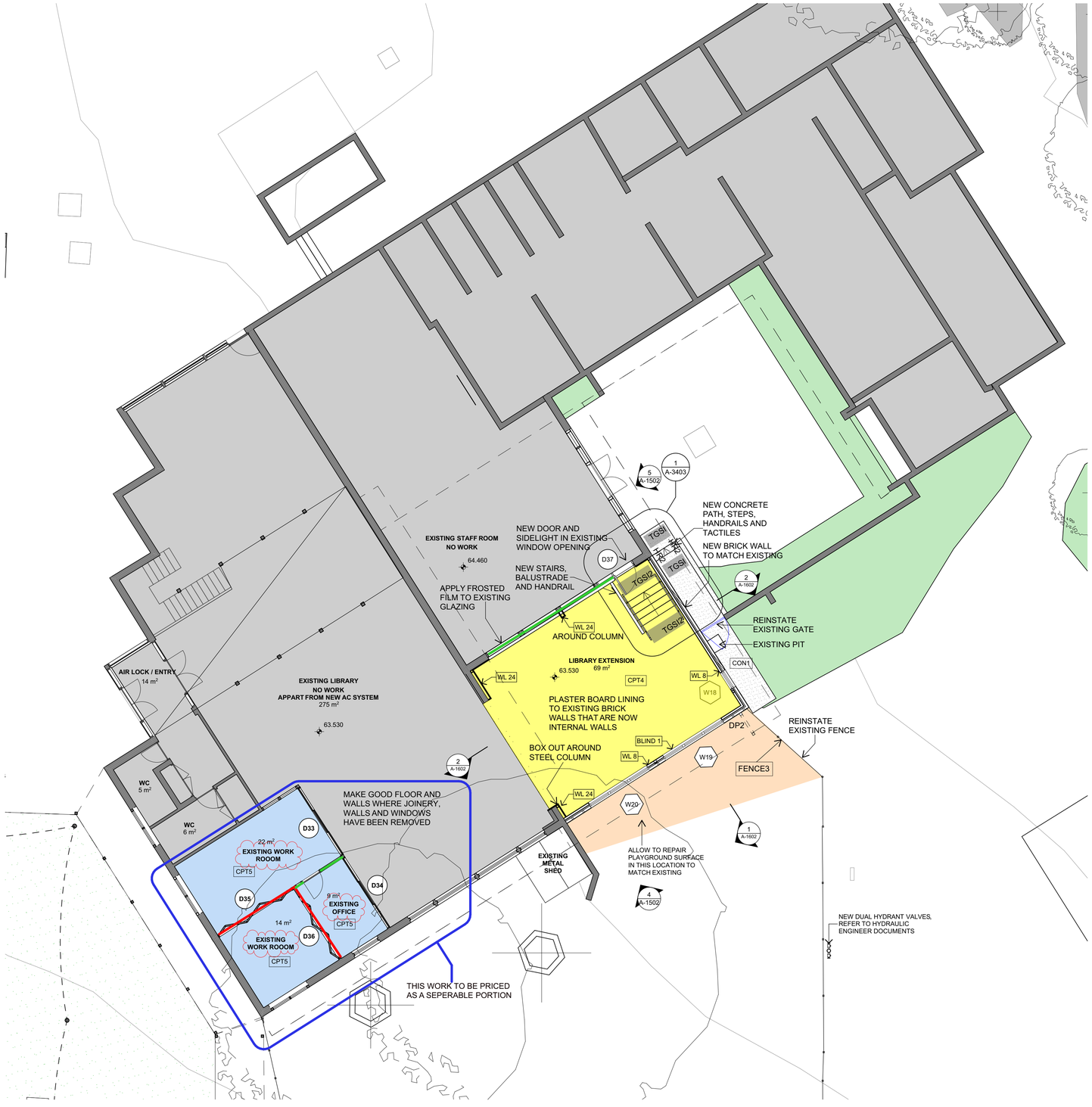
PROJECT
Hurstville Public School
80 Forest Road Hurstville NSW 2220

DRAWING TITLE
Ground Floor Plan - Hall

PROJECT No	DRAWING No	REVISION
18020 HPS	A-1202	K

DRAWING SCALE	SHEET SIZE	DRAWN	CHECKED	DATE
As Shown	A1	CB & HK	RG	5/02/2019

ARCHITECT
GARDNER WETHERILL ASSOCIATES
T (02) 9929 6777
F (02) 9929 3999
E design@gardnerwetherill.com.au
A.C.N. 104 478 833
LEVEL 2 Suite 2.01
460 Pacific Highway
St Leonards 2065
Nominated Architect - Alistair Ross Gardner (Reg No. 3949)



1 Ground Floor Library Extension
SCALE - 1:100

BIM Server: GWABIM1 - BIM Server 21/18020 Hurstville P S

TENDER ADDENDUM ISSUE

All Levels and Dimensions to be verified prior to the commencement of work.
Use figured dimensions only. Do not scale.
All work to comply with current regulations and S.A.A. Standards.
Drawing has been documented in COLOUR. Drawing is required to be printed in COLOUR. Failure to do so may result in loss of information.
Black and White Printing may be used if specific Black and White documents have been obtained from Gardner Wetherill & Associates.

TAGS & HATCHING

WL 1 — DENOTES A WALL, PARTITION OR CLADDING SYSTEM. REFER TO 4100 SERIES DRAWINGS FOR MORE DETAILS.

XXXX — DENOTES A FITTING, FIXTURE OR FINISH CODE. REFER TO THE RELEVANT SCHEDULE FOR DETAILS

AREAS UNAFFECTED BY WORK OR EXISTING ITEMS TO REMAIN SHOWN SHADED IN GREY

D01 — DOOR ELEMENT. REFER TO DOOR SCHEDULE FOR DETAILS.

W01 — WINDOW ELEMENT. REFER TO WINDOW SCHEDULE FOR DETAILS.

L01 — LOUVRE ELEMENT. REFER TO WINDOW SCHEDULE FOR DETAILS.

BAL - BALUSTRADE TYPE
BOL1 BOLLARD TYPE REFER TO CIVIL ENGINEERS DRAWINGS
COL COLUMN
CON - CONCRETE FINISH TYPE
CPT - CARPET TYPE
CTF - CERAMIC TILE TYPE
DP DOWNPIPE
GTD GRATED DRAIN
HR - HANDRAIL TYPE
SP STEEL POST
ROOF - ROOF TYPE
RV - ROOF VENTILATOR
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			ADDENDUM 3
			ADDENDUM 3
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PROJECT
HURSTVILLE PUBLIC SCHOOL
Hurstville Public School
80 Forest Road Hurstville NSW 2220

DRAWING TITLE
Ground Floor Plan - Library

PROJECT No	DRAWING No	REVISION
18020 HPS	A-1203	D

DRAWING SCALE	SHEET SIZE	DRAWN	CHECKED	DATE
As Shown	A1	CB & HK	RG	5/02/2019

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A.C.N. 104 478 833
LEVEL 2 Suite 2.01
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Nominated Architect - Alistair Ross Gardner (Reg No. 3949)