Nihon University Australia Newcastle Campus Project

Basic Design (For Development Application)

AZUSA SEKKEI
Architects, Engineers & Consultants

Feb. 2019

Nihon University Australia Newcastle Campus Project

	Drawing No.	Title of Drawing (Diagram & Information)		Drawing No.	Title of Drawing (General)		Drawing No.	Title of Drawing		Drawing No.	Title of Drawing
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Drawing List

Scale 1/ A1:250 A3:500

Date 2018 • 12 • 14

Drawing No. A — 000

No Rev-0

Project Brief

The development site is located within the Hill Heritage Conservation Area, and it incorporates Newcastle's former Courthouse (referred to as Old Courthouse), designed by Colonial Architect James Barnet, a state significant heritage listed item, and two twentieth century buildings which were part of the courthouse complex.
The Project consists of the rehabilitation of the Old Courthouse and the construction of two new buildings, by replacing the existing administration building and supreme courthouse building. The two new buildings shall be connected to the Old Courthouse via atria.
The new building would form part of the campus complex dedicated to student accommodation, and the other dedicated to educational spaces, and the Old Courthouse would house the administration and management of the Campus as well as the conference room.
The Residential building would house 102 beds for students and 7 rooms for professors and long staying researchers.
The main purpose of the campus is to act as a center of international language exchange program. Students from Nihon University Group (including students from Junior High-school of related school) would come for a short stay of one to two months to experience international living and practice English on site. The students would be housed in the residential building and would take English class courses in the educational building.
There is also a plan for an exchange program with Newcastle University and the Faculty of Law of Nihon University. The program is not finalised yet but the main purpose of this program is the efficient re-use of the Old Courthouse. The Nihon Faculty of Law has, in its Curriculum has a series of training programs, including mock-up trials. Currently, Nihon University does not have facilities to conduct mock-up trials and the Old Courthouse is best suited to conduct such courses.
It is also intended to open the doors to students of Newcastle University to experience mock-up trials, debating with visiting Japanese students, cross learn the judicial systems of both countries in the environment of the Courthouse. The Faculty of Law of Nihon University would donate more than 5,000 books related to Japanese criminology and law related books so that researchers from Newcastle University can enjoy comparative studies of judicial system.
It is also planned to organise lectures open to public in the Old Courthouse, and in some of the classrooms when not in use, as part of social contribution activities of Nihon University. Such open lectures could be on judicial and law matters but also on cultural issues such as Tea Ceremony, Calligraphy, Flower Arrangement, and other culture oriented activities.

Design Approach / Aesthetic Conosiderations

The design intent is to respect the existing Old Courthouse building.
The Old Courthouse is very symbolic in its location and style. The design of the new buildings would be in line with the symmetric design of the existing Old Courthouse.
The new buildings have a 10m height limitation to the front façade but proportionately wide opening to the street, so the building design is horizontally focused.
The Old Courthouse has 2 strong horizontal lines at base and parapet, and these two lines would be used as leitmotif to express the continuity from the Old Courthouse to the new buildings.
As such, the proposed design does not have a strong design expression in itself, so as not to fight with the Old Courthouse, instead it is a simple and timeless design, that reflects the concept of continuous flow of knowledge as an educational facility is proposed.
The design would also express Japanese minimalistic Zen design so as to bring to the façade a touch of Asian Culture. The two leitmotif lines would create the frame and in between, double-height wooden louvres are installed. These louvres would reflect the Japanese traditional shoji screens. The vertical repetitive rhythm of the double height louvre panel would also be in line with the vertical motives of the Old Courthouse.
The details of the louvres would bring gentle light pattern to the interior and from the outside, these louvres screen would soften the strong character of a massing block.
The screen is stopped at Police station side and is continuous to the hospital side, reflecting the site context.
The horizontal louvres is efficient on the north front façade, reducing thermal input from direct sun-light in the living areas, while securing views from inside and protecting views towards and from the neighbouring context for privacy point of view.
The new buildings have a rooftop terrace for students to retreat to for fresh air and contemplation: Behind the terrace is the remaining necessary floors that are not visible from the front street.

Development Controls

Site Area	5,191 ㎡
Floor Space Ratio	1.3:1
Maximum Height	18.9m (Old Court House) 16.6m (New buiding)
Maximum Gross Floor Area (GFA)	6,605 ㎡

Gross Floor Area (GFA)

REFER TO GROSS FLOOR AREA CALCULATION TABLE FOR INDIVIDUAL FLOOR AREAS.
Gross Floor Area is defined in the Newcastle LEP as the total floor area of a building.
Measured from the internal face of external walls measured at a height of 1.4m above the floor, and includes:
·The area ofa mezzanine.
·Habitable rooms in a basement or an attic
·Anyshop, auditorium, cinema, and the like, in a basement or attic.
but excludes:
·Areas for common vertical circulation, such as lifts and stairs.
·Basements.
·Storage.
·Vehicular access, loading areas, garbage and services.
·Plant rooms, lift towers and other areas used exclusively for mechanical services.
·Car parking to meet any requirements of the consent authority (including access to that car parking).
·Spaces used for the loading or unloading of goods (including access to it).
·Terraces and balconies with outer walls less than 1.4 metres high.
·Voids above a floor at the level of a storey or storey above.

Total GFA	6,605 ㎡
Floor Space Ratio	1.3:1

Carparking

Total Car Spaces Required (1 space per 60㎡)	111
Total Car Spaces Provided (Includes 2 x Accessible)	20
Motorbike Parking Provided	1

Bicycle End of TripCarparking

Bicycle Spaces Provided	22

Gross Floor Area Calculation
(※1-4 Floor excluded Old Court House GFA)

Name	Level	Education Building	Old Court House	Residential Building
GFA	1st Floor	80㎡	1,664㎡	916㎡
GFA	2nd Floor	699㎡		950㎡
GFA	3rd Floor	686㎡		929㎡
GFA	4th Floor	289㎡		392㎡
				6,605㎡

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Project Summary

Scale 1/

Date 2018・12・14

Drawing No. A — 001

No Rev-0



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Perspective - 1

Scale 1/

Date 2018 - 12 - 14

Drawing No. A — 002

No. Rev — 0



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Perspective - 2

Scale 1/

Date 2018・12・14

Drawing No. A — 003

No Rev — 0



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Perspective - 3

Scale 1/

Date 2018・12・14

Drawing No. A — 004

No. Rev — 0



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				Perspective - 4	Scale 1/ — Date 2018・12・14	No Rev — 0



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Perspective - 5

Scale 1/

Date 2018・12・14

Drawing No. A — 006

No. Rev — 0



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Perspective - 6

Scale 1/

Date 2018・12・14

Drawing No. A — 007

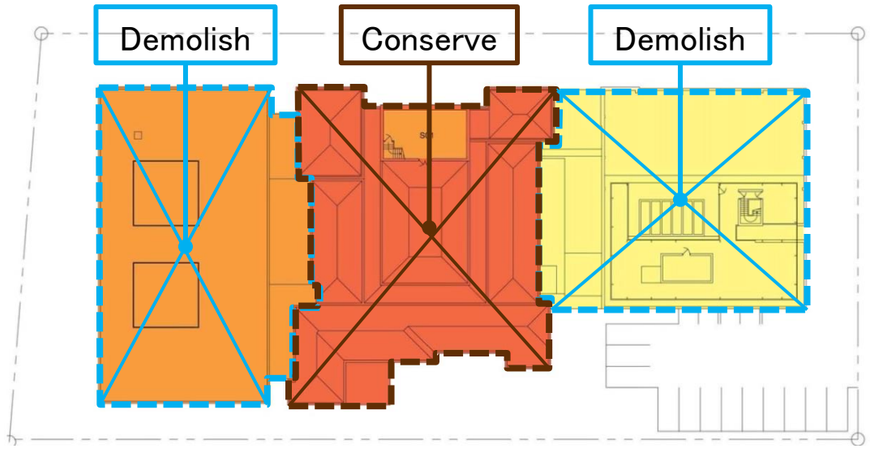
No Rev — 0

Conservation Plan

Gradings of significance

	High	: Must not demolish/remove
	Moderate	: Need attention to demolish/remove
	Little	: Able to demolish/remove
	Intrusive	: No problem to demolish/remove

Conservation Area :

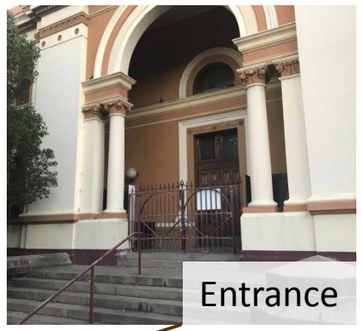


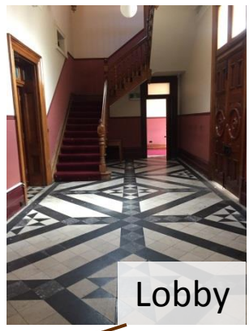



Cell


Interview


Court 3


Entrance

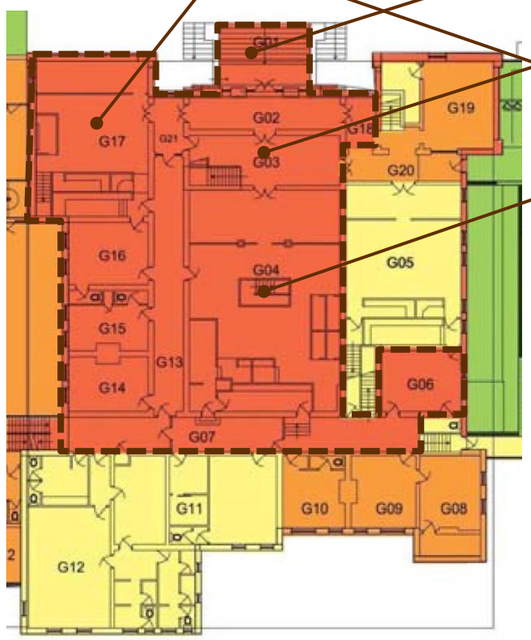

Lobby


Court 4

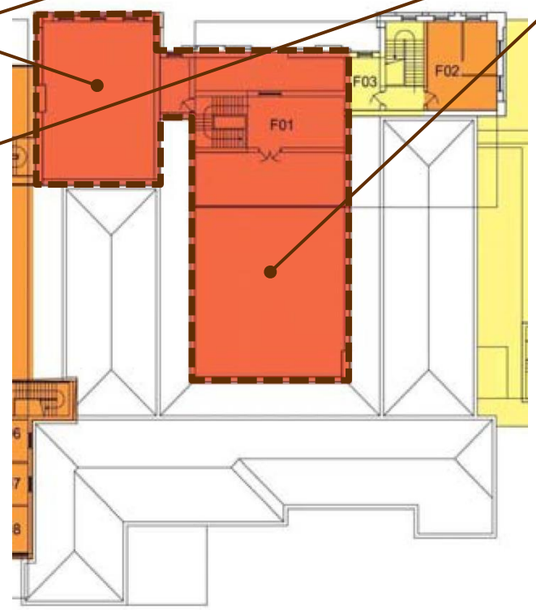

Roof



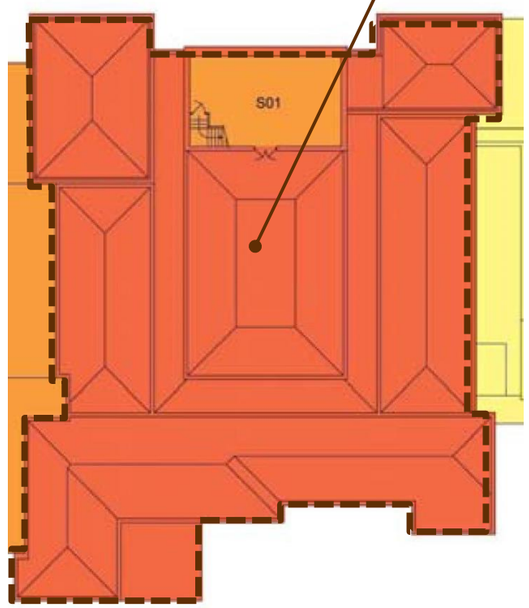
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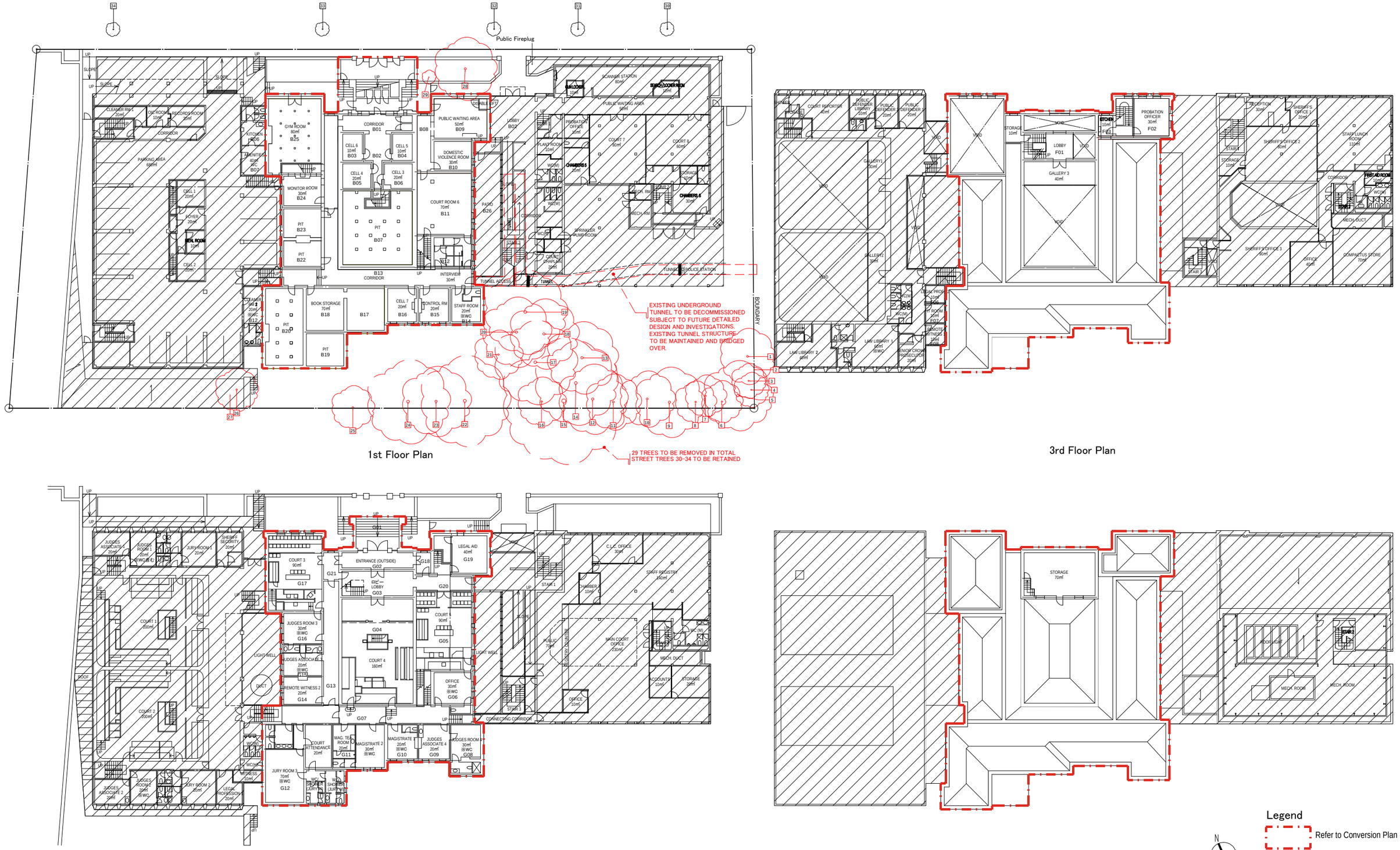
Conservation Plan

Scale 1/

Date 2018・12・14

Drawing No. A — 008

No. Rev – 0



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Demolition Plan

Scale 1/

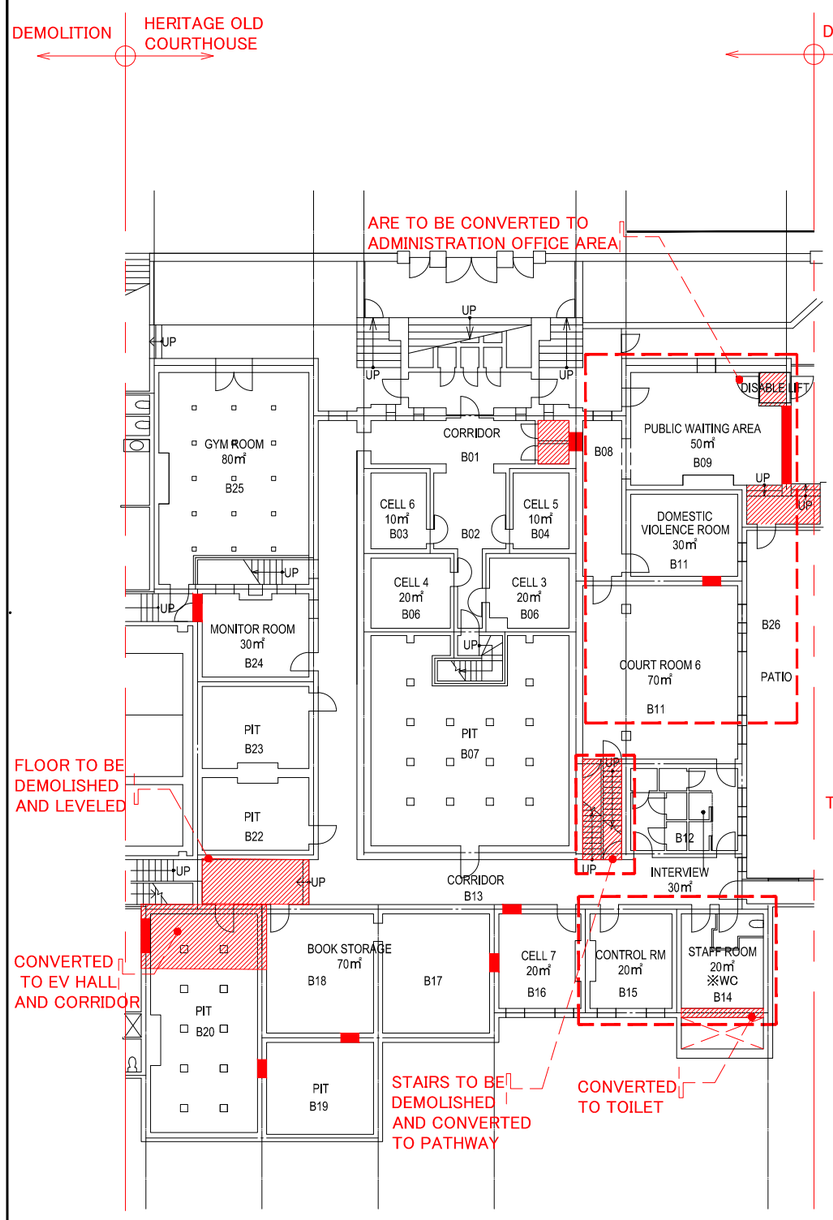
Date 2018・12・14

Drawing No. A —

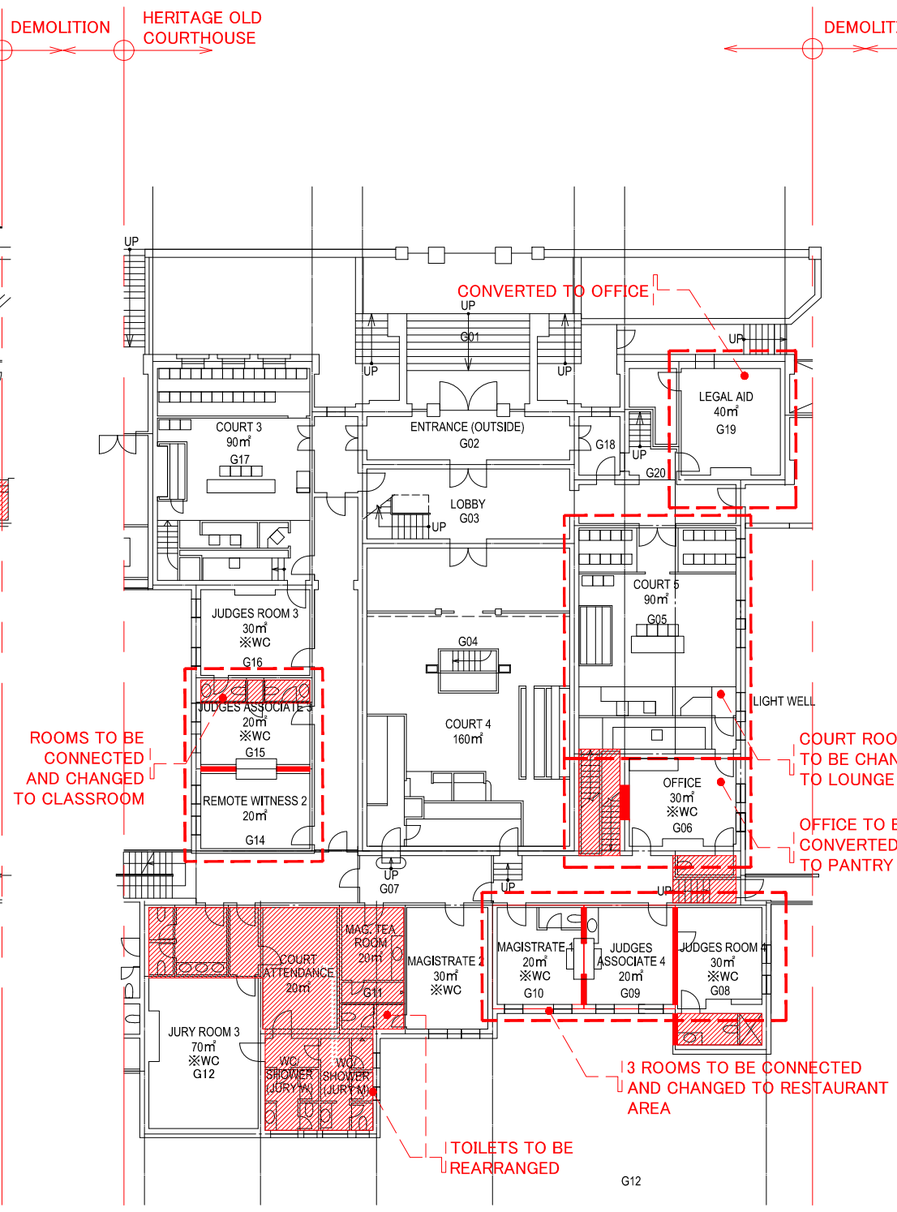
No

CONVERSION PLAN

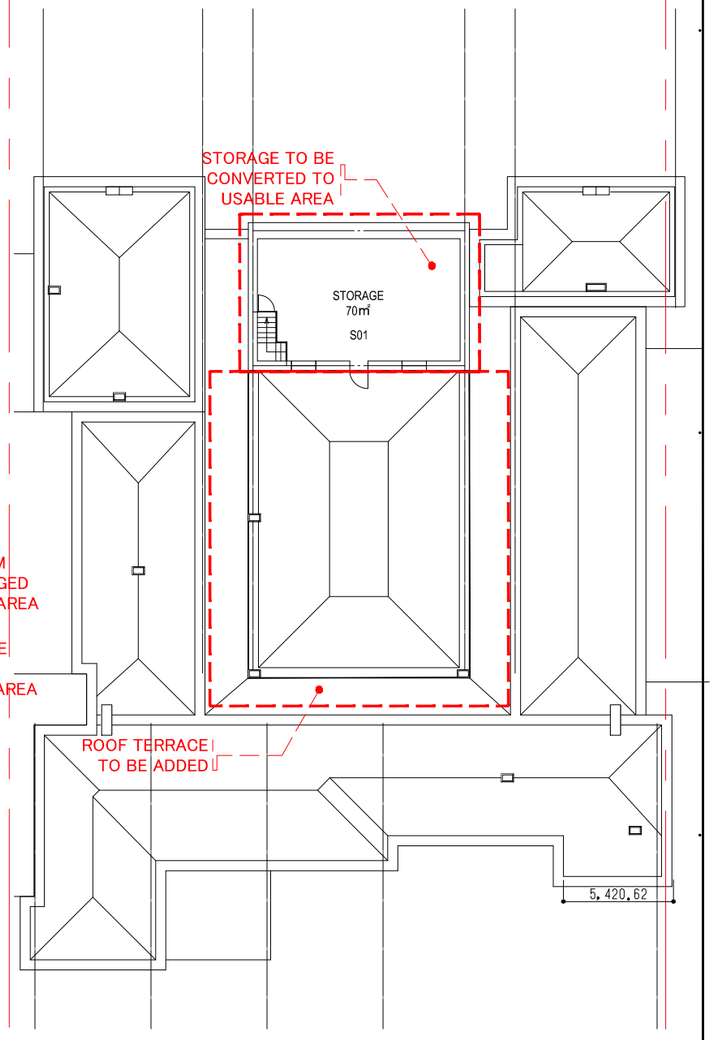
LEGEND
- AREA TO BE DEMOLISHED
- WALL OPENING AREA



COURTHOUSE BASEMENT PLAN



COURTHOUSE 1ST FLOOR PLAN



COURTHOUSE 3RD FLOOR PLAN

N

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Conversion Plan

Scale 1/

Date 2018・12・14

Drawing No. A — 010

No Rev-0

Design Option Studies-1 : Facade Design Scatter Diagram

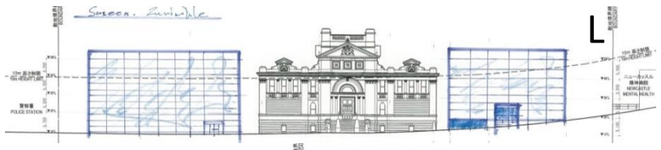
Simple

Complex

Modern

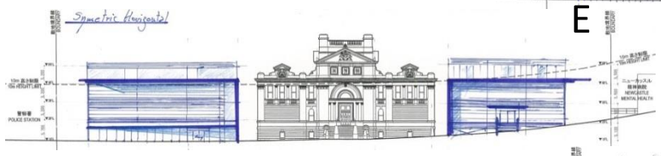
Classic

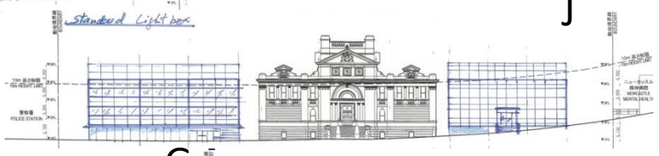
Basic scheme

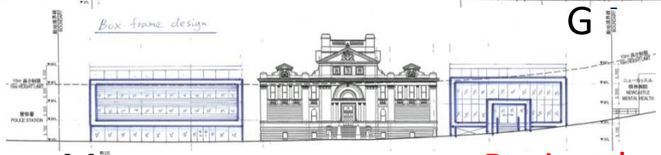




































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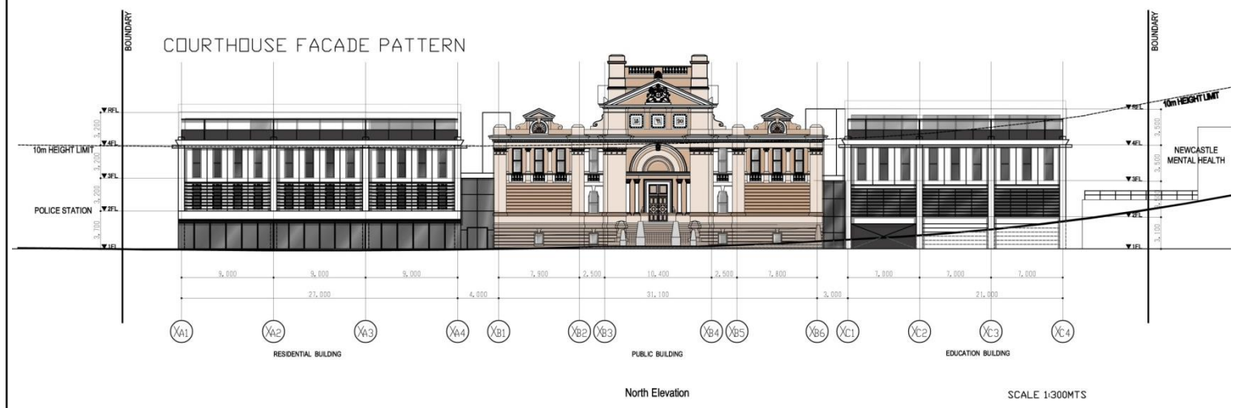
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Planner				Nihon University Australia Newcastle Campus Project		Drawing No. A — 011
				Design Option Studies-1	Scale 1/ — Date 2018・12・14	No. Rev — 0

Design Option Studies-2 : Colored Elevations

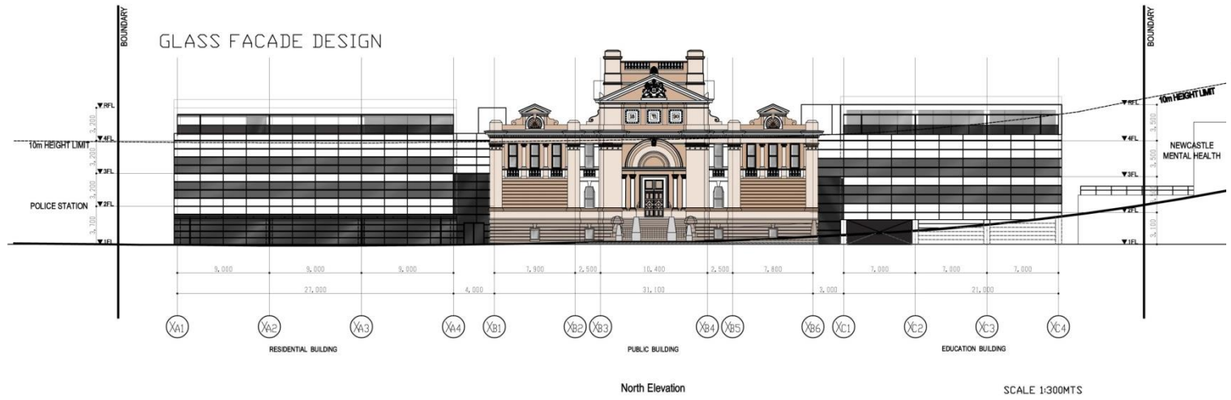
A



North Elevation

SCALE 1:300MTS

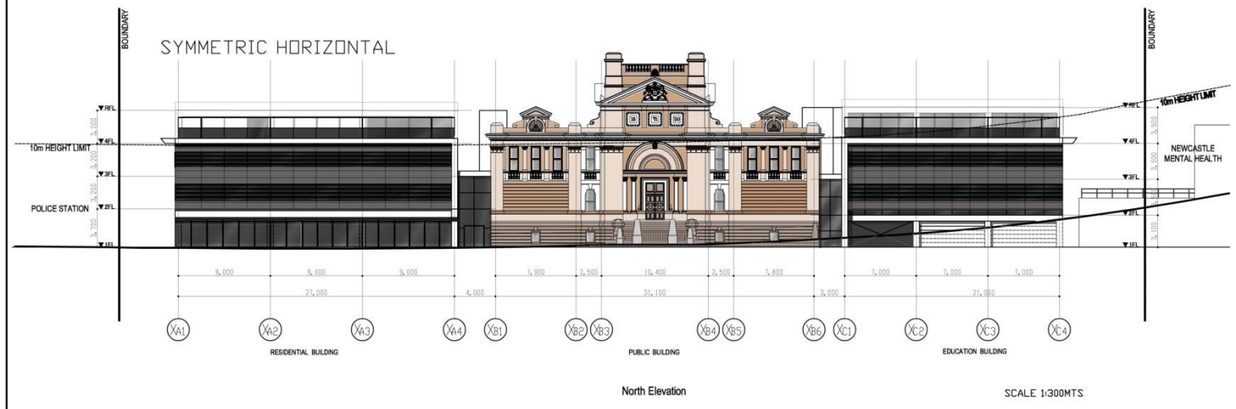
J



North Elevation

SCALE 1:300MTS

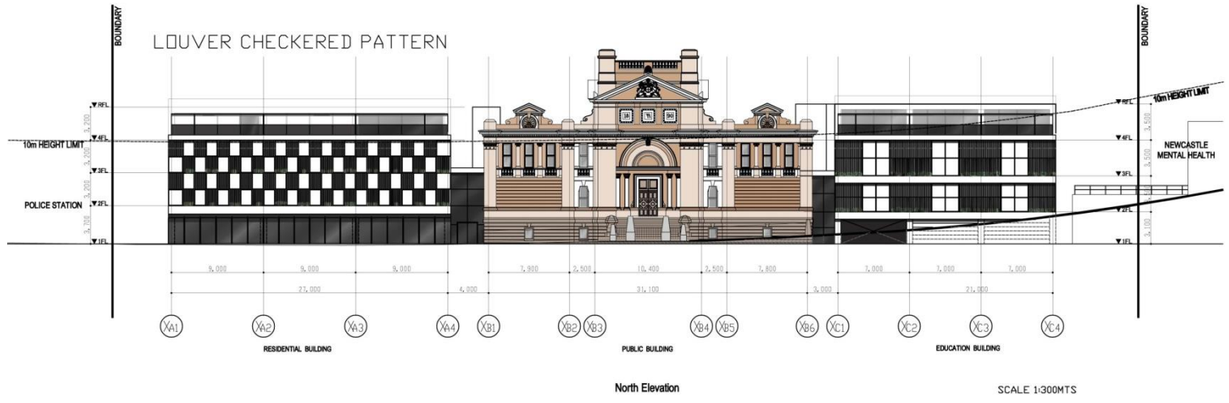
E



North Elevation

SCALE 1:300MTS

O



North Elevation

SCALE 1:300MTS

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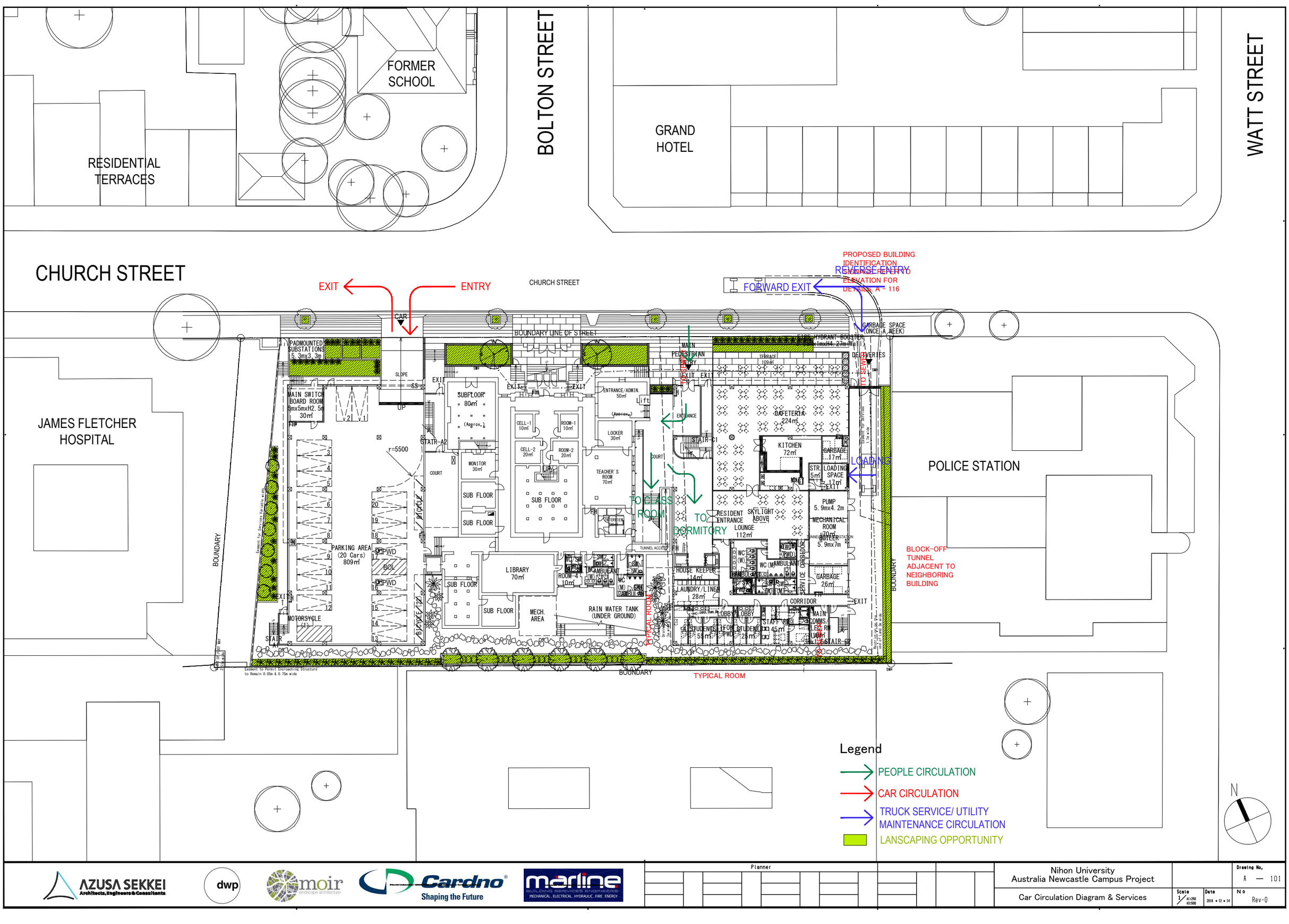
Design Option Studies-2

Scale 1/

Date 2018・12・14

Drawing No. A — 012

No Rev — 0



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Car Circulation Diagram & Services

Scale 1/ A1:250 A3:500 | Date 2018 • 12 • 14 | No Rev-0

Drawing No. A — 101

FORME
R
SCHO
OL

RESIDENTI
AL
TERRACE
S

BOLTON
STREET

GRAN
D
HOTE
L

WATT
STREET

CHURCH
STREET

VIEW TO SITE
UP BOLTON
ST
REFER TO A-
003

VIEWS FROM SITE
AT HIGHER LEVEL

VIEWS FROM SITE
AT HIGHER LEVEL

VIEW
TO SITE
WEST
REFER TO A-
004

VIEW
TO SITE
EAST
REFER TO A-
005

PREVAILING WINTER
WIND

SUNSET
WINTER
SOLSTICE

WINTER
SOLSTICE
SUNRIS
E

SUNSE
T
EQUIN
OX

SUNRI
SE
EQUIN
OX

SUNSET
SUMMER
SOLSTICE

SUMMERE
SOLSTICE
SUNRIS
E

9 CHURCH
ST.
LOT 1
D.P. 1199904
5,191 m2

JAMES
FLETCHER
HOSPITAL

POLICE
STATION

RL25.57
RL23.04
RL22.26
RL22.25
RL22.11
RL22.35
RL22.87
RL22.53
RL22.64
RL22.60
RL22.62
RL23.35

Easement for Services
Variable width

Easement for Drainage
3m wide

Restriction on the Use of Land

RIGHT OF
WAY 3.51m
wide

Easement to Permit Encroaching Structure to Remain
0.05m & 0.75m wide

EXISTING
RETAINING
WALL ALONG
SOUTHERN BOUNDARY

PREVAILING SUMMER
WIND

N

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Site Analysis Plan

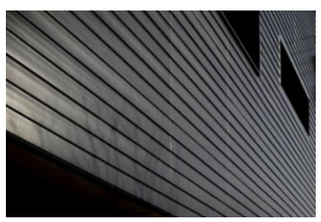
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Date 2016 - 12 - 14

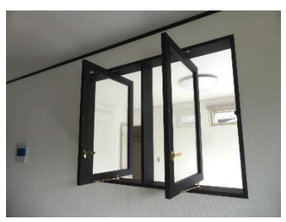
Drawing No. A — 102

No Rev — 0

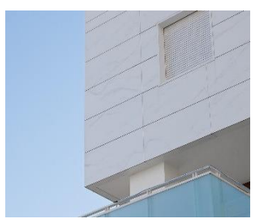




01. Extruded Cement Featured Panel



02. Openable Window



03. Tile



04. Tempered Glass, Glass Rib Structure



05. Aluminum Panel, White Fluorine Coat



07. Wooden Louvre



08. Steel Pergola OP With Shades

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				Northeast Perspective	Scale 1/	Date 2018・12・14	No

01. Rendered Concrete & Paint

01. Rendered Concrete & Paint

02. Roller shutter

04. Aluminium Ventilation louvre, OP

03. Wooden Louvre

05. Glass Balustrade

06. Steel Pergola OP With Shades

07. Openable Window

08. Aluminum Panel, White Fluorine Coat

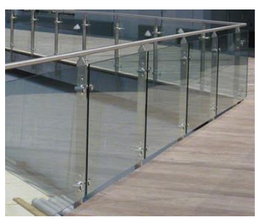




03. Wooden Louvre



04. Aluminium Ventilation louvre, OP



05. Glass Balustrade



06. Steel Pergola OP With Shades



07. Openable Window



08. Aluminum Panel, White Fluorine Coat

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Planner

Nihon University
Australia Newcastle Campus Project

Northwest Perspective

Scale 1/

Date 2018・12・14

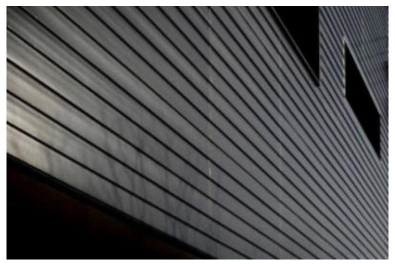
Drawing No. A — 104

No






01. Openable Window


04. Extruded Cement Featured Panel


05. Tile


06. Aluminum Panel, White Fluorine Coat


07. Wooden Louvre


08. Glass Balustrade


09. Steel Pergola OP With Shades


10. Acoustic Louvre

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Planner	Project	Drawing No.
	Nihon University Australia Newcastle Campus Project	A — 105
	Southeast/Southwest Perspective	Scale 1/ · Date 2018・12・14 · No

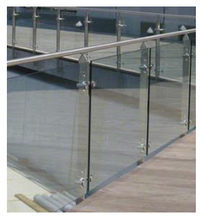
01. Openable Window
02. Tempered Glass, Glass Rib Structure
03. Tempered Glass, Glass DPG Structure
04. Aluminum Panel, White Fluorine Coat
05. Glass Balustrade
06. Wooden Louvre
07. Steel Pergola OP With Shades
08. Acoustic Louvre
09. Rendered Concrete & Paint
10. Wooden Deck




01. Openable Window


02. Tempered Glass, Glass Rib Structure


04. Aluminum Panel, White Fluorine Coat


05. Glass Balustrade


06. Wooden Louvre


07. Steel Pergola OP With Shades


08. Acoustic Louvre


10. Wooden Deck

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Aerial Perspective

Scale 1/

Date 2018・12・14

Drawing No. A — 106

No

EXISTING DRIVEWAY CROSS-OVER TO REMAIN

CHURCH STREET

EXISTING KERB CROSSING TO REMAIN

EXISTING STREET TREES TO REMAIN

EXISTING DRIVEWAY CROSS-OVER TO REMAIN

Width of street : 20.115

BOUNDARY LINE OF STREET

CARS

MAIN PEDESTRIAN ENTRY

DELIVERIES

ZEN GARDEN

No.9
LOT 1
D.P. 1199904
5,191 m2

RL 34.90

VOID

MECH. AREA

RL 38.40

RL 38.10

Easement for Services Variable width

Easement for Servises 1.7m wide

Restriction on the use of Land 3m wide

Drainage Easement 3m wide

RIGHT OF FOOT WAY 2.51m wide

Easement to Permit Encroaching Structure to Remain 0.05m & 0.75m wide

BOUNDARY

BOUNDARY

5,600 | 8,400 | 7,000 | 150 | 2,580 | 4,080 | 150 | 9,000 | 9,000 | 9,000

21,000 | 2,730 | 31,520 | 4,230 | 27,000

EDUCATION BUILDING

PUBLIC BUILDING

RESIDENTIAL BUILDING

N

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Site Plan

Scale 1/A1:150 A3:300

Date 2018・12・14

Drawing No. A — 107

No Rev-0

CHURCH STREET

PROPOSED BUILDING IDENTIFICATION SIGNAGE. REFER TO ELEVATION FOR DETAILS. A – 116

BOUNDARY LINE OF STREET

Width of street : 22.115

PADMOUNTED SUBSTATIONS 5.3mx3.3m

MAIN SWITCH BOARD ROOM 5mx5mxH2.5m 30m²

CAR

SLOPE

SUBFLOOR 80m²

MONITOR 30m²

SUB FLOOR

SUB FLOOR

SUB FLOOR

SUB FLOOR

LIBRARY 70m²

MECH. AREA

CELL-1 10m²

CELL-2 20m²

ROOM-1 10m²

ROOM-2 20m²

ROOM-4 10m²

ENTRANCE/ADMIN. 50m²

LOCKER 30m²

TEACHER'S ROOM 70m²

INTERVIEW 30m²

COURT

COURT

STAIR-A2

STAIR-A1

STAIR-C1

STAIR-C2

BICYCLE (22)

PARKING AREA (20 Cars) 809m²

PWD

BOL

PWD

MOTORSYCLE (1)

RAIN WATER TANK (UNDER GROUND)

TUNNEL ACCESS

MAIN PEDESTRIAN ENTRY

ENTRANCE

TERRACE 109m²

CAFETERIA 224m²

KITCHEN 72m²

GARBAGE 17m²

STR. 5m²

LOADING SPACE 17m²

MDF

RESIDENT LOUNGE 112m²

SKYLIGHT ABOVE

PUMP 5.9mx4.2m

MECHANICAL ROOM

BOILER 5.9mx7m

TUNNEL VENTILATION STATION

HOUSE KEEPER 14m²

LAUNDRY/LINEN 28m²

4 STUDENTS 55m²

1 FOR PWD 25m²

LOBBY

LOBBY

STAFF RM 45m²

CORRIDOR

SERVICE CORRIDOR

GARBAGE 26m²

MAIN COMMS/ ELEC RM 14m²

GARBAGE SPACE (ONCE A WEEK)

DELIVERIES

FIRE HYDRANT BOOSTER 3.5mx1mxH4.27m (Wall)

TO SEWER

Easement for Services Variable width

Easement for Services 1.7m wide

Restriction on Use of Land 3m wide

Drainage Easement 3m wide

Left OF FOOT WAY 2.51m wide

Easement to Permit Encroaching Structure to Remain 0.05m & 0.75m wide

TYPICAL ROOM

TYPICAL ROOM

LOCATION OF EXISTING UNDERGROUND TUNNEL, SHOWN IN DASHED.

BLOCK OFF TUNNEL ADJACENT TO NEIGHBORING BUILDING

6 STUDENTS (Including 1 PWD)

BOUNDARY

BOUNDARY

EDUCATION BUILDING

PUBLIC BUILDING

RESIDENTIAL BUILDING

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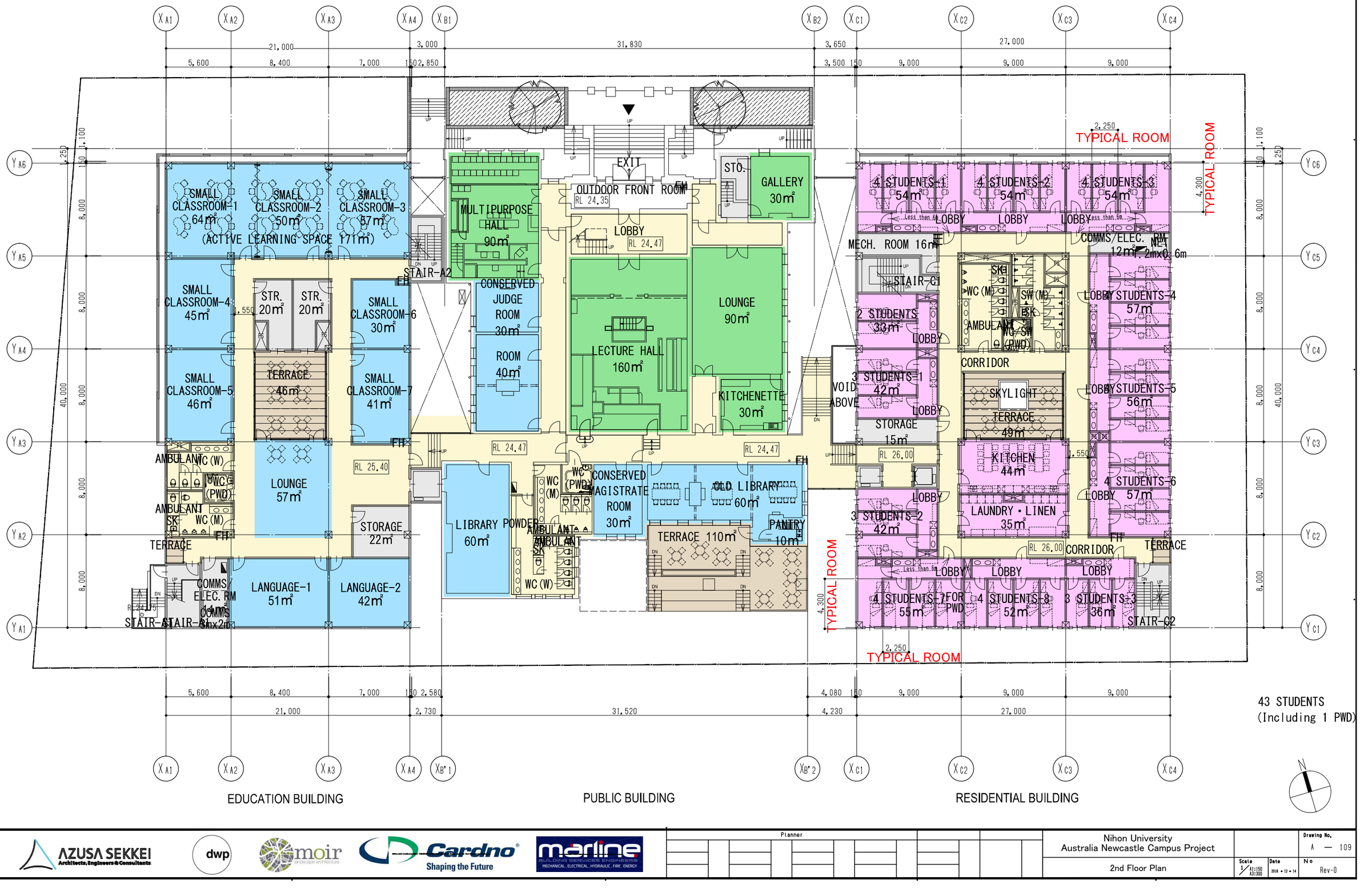
1st Floor Plan

Scale 1/A1:150 A3:300

Date 2018・12・14

Drawing No. A — 108

No Rev-0



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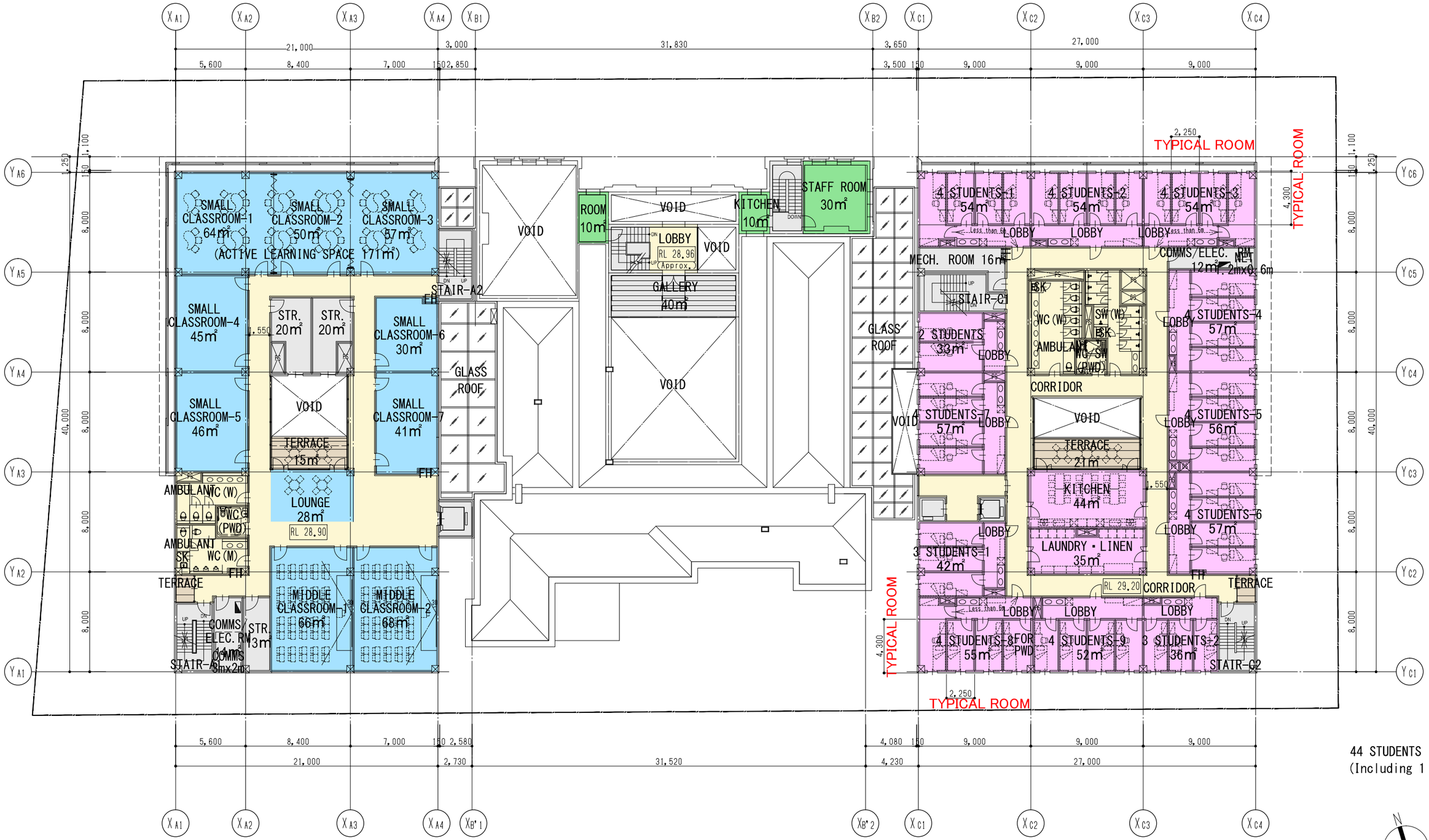
2nd Floor Plan

Scale 1/ A1:1/150 A3:1/300

Date 2018・12・14

Drawing No. A — 109

No Rev-0



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3rd Floor Plan

Scale 1/A1:150 A3:300

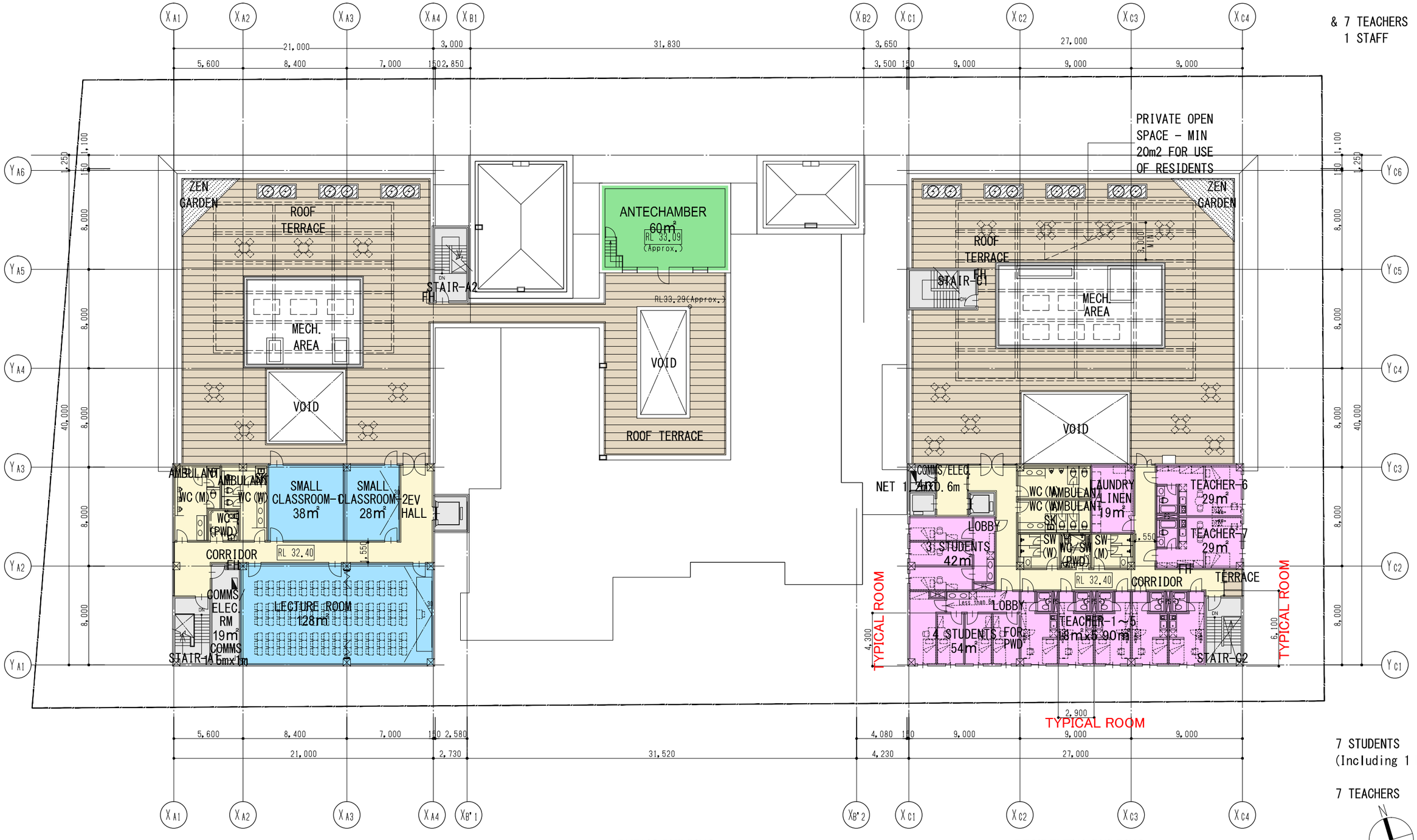
Date 2018・12・14

Drawing No. A — 110

No Rev-0

1F	6 STUDENTS
2F	43 STUDENTS
3F	44 STUDENTS
4F	7 STUDENTS
TOTAL	100 STUDENTS

& 7 TEACHERS
1 STAFF



7 STUDENTS
(Including 1 PWD)

7 TEACHERS

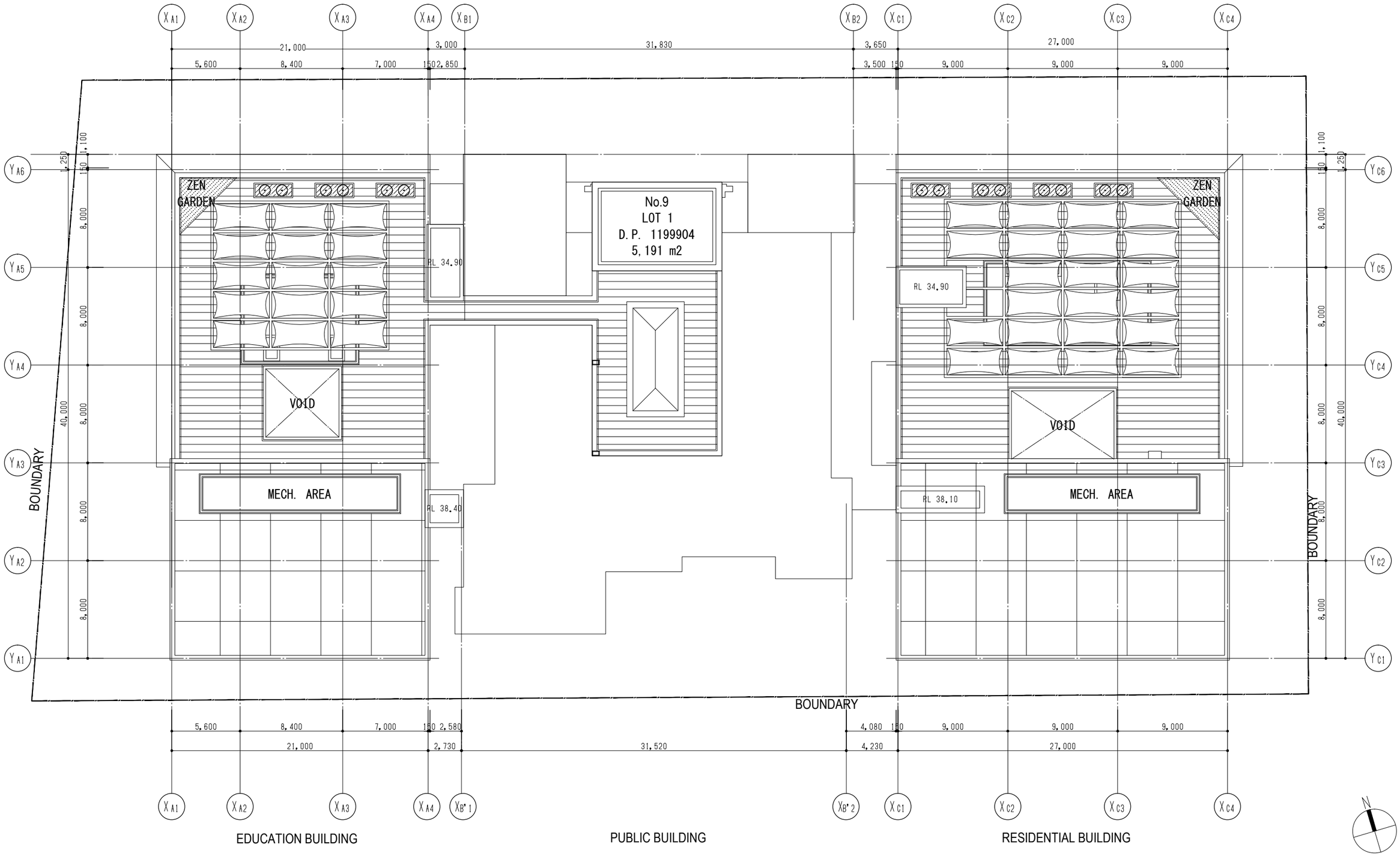
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4th Floor Plan

Scale 1/ A1:150 A3:300
Date 2018・12・14
Drawing No. A — 111
No Rev-0



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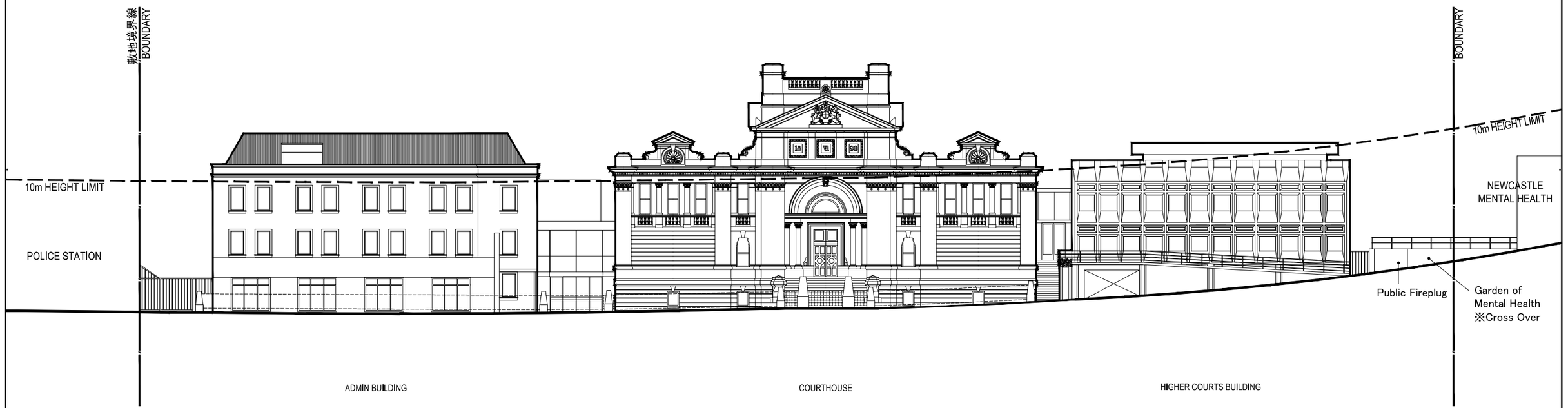
Roof Floor Plan

Scale 1/ A1:150 A3:300

Date 2018・12・14

Drawing No. A — 112

No Rev-0



NORTH ELEVATION

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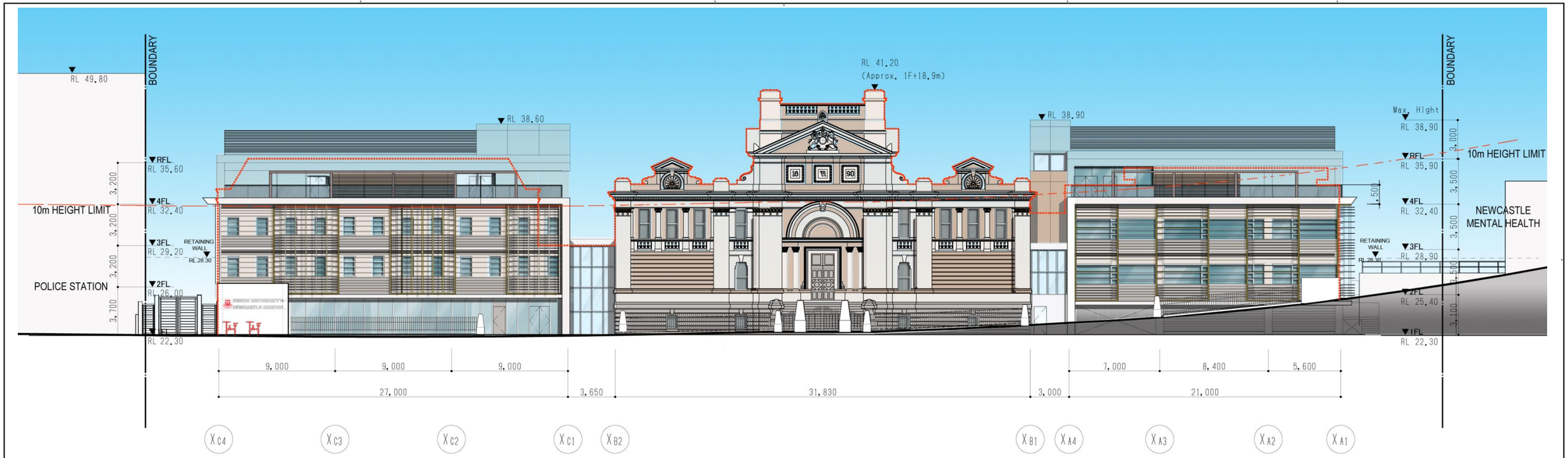
Existing Elevation

Scale 1/ A1:150 A3:300

Date 2018・12・14

Drawing No. A — 113

No Rev-0



NORTH ELEVATION



SOUTH ELEVATION

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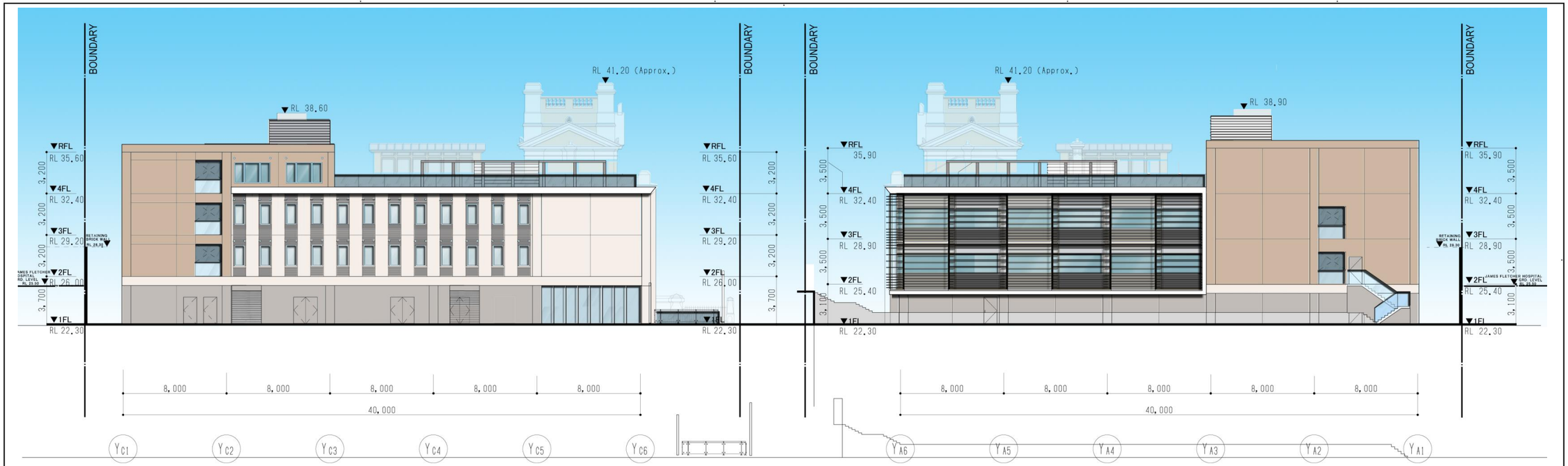
North & South Elevations

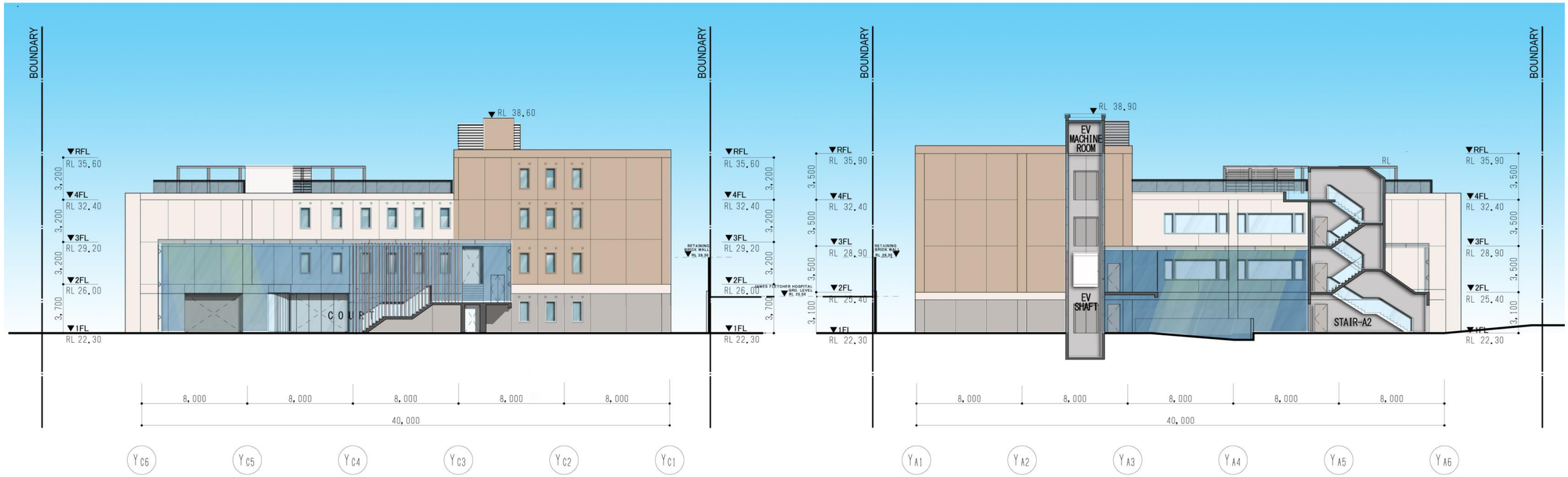
Scale 1/A1:150 A3:300

Date 2018・12・14

Drawing No. A — 114

No Rev — 0





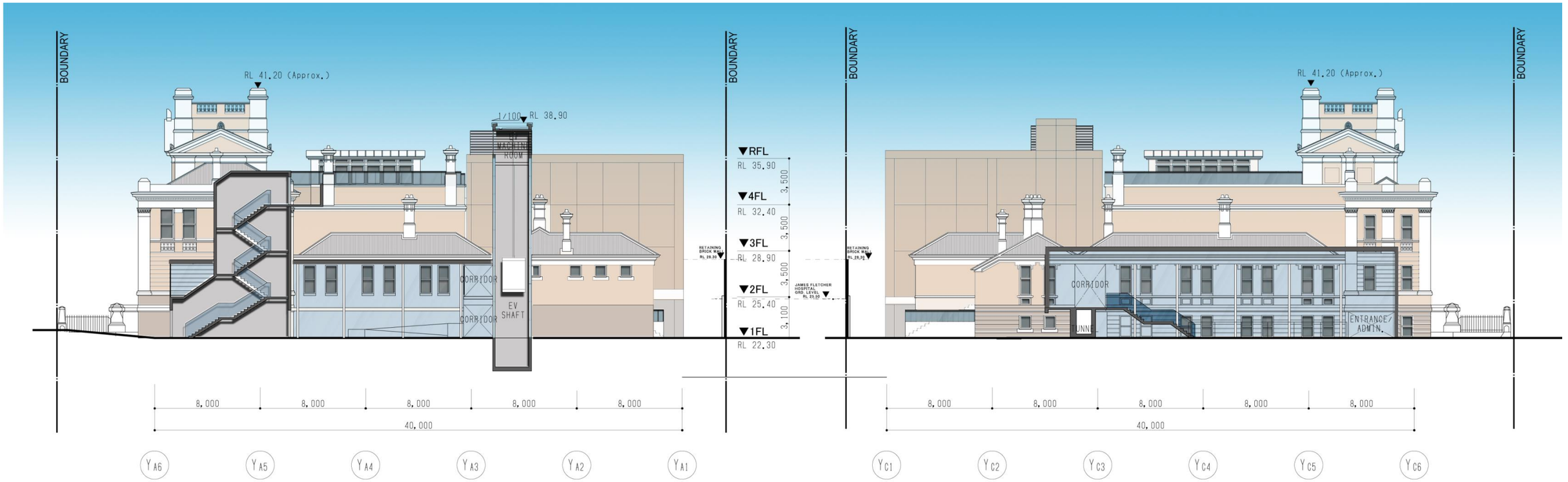
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East & West Elevations

Scale 1/A1:150 A3:300 | Date 2018・12・14 | Drawing No. A — 115 | No Rev — 0

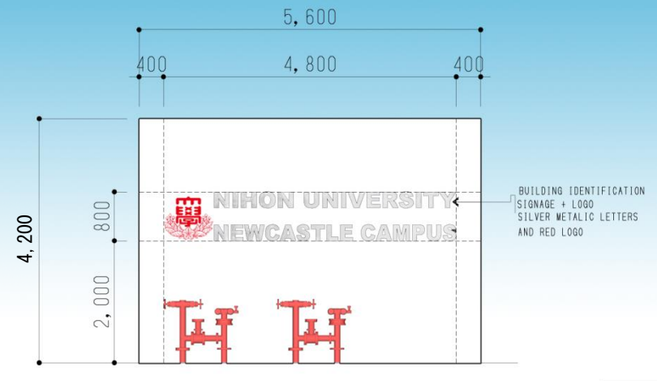


COURTHOUSE WEST ELEVATION (W-W')

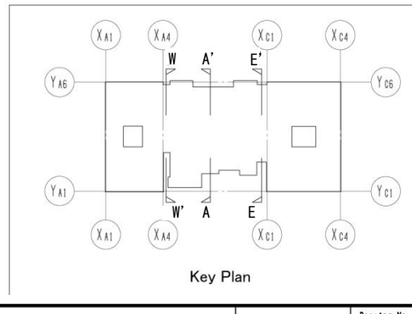
COURTHOUSE EAST ELEVATION (E-E')



COURTHOUSE SECTION (A-A')



Building Identification
Signage Elevation -1:50



Key Plan

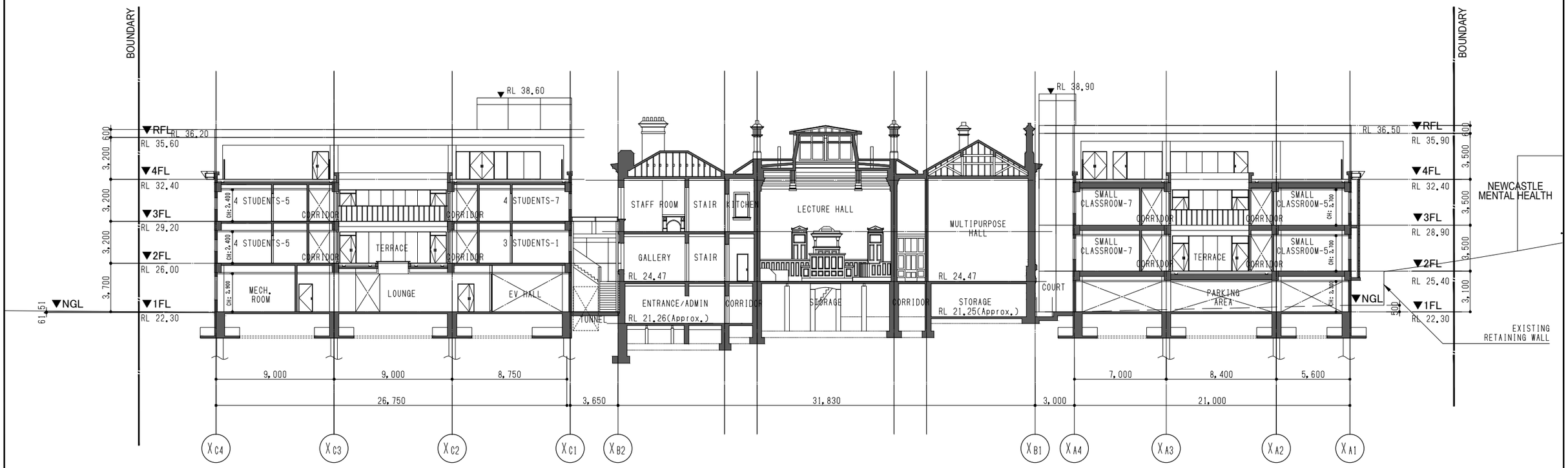
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Planner

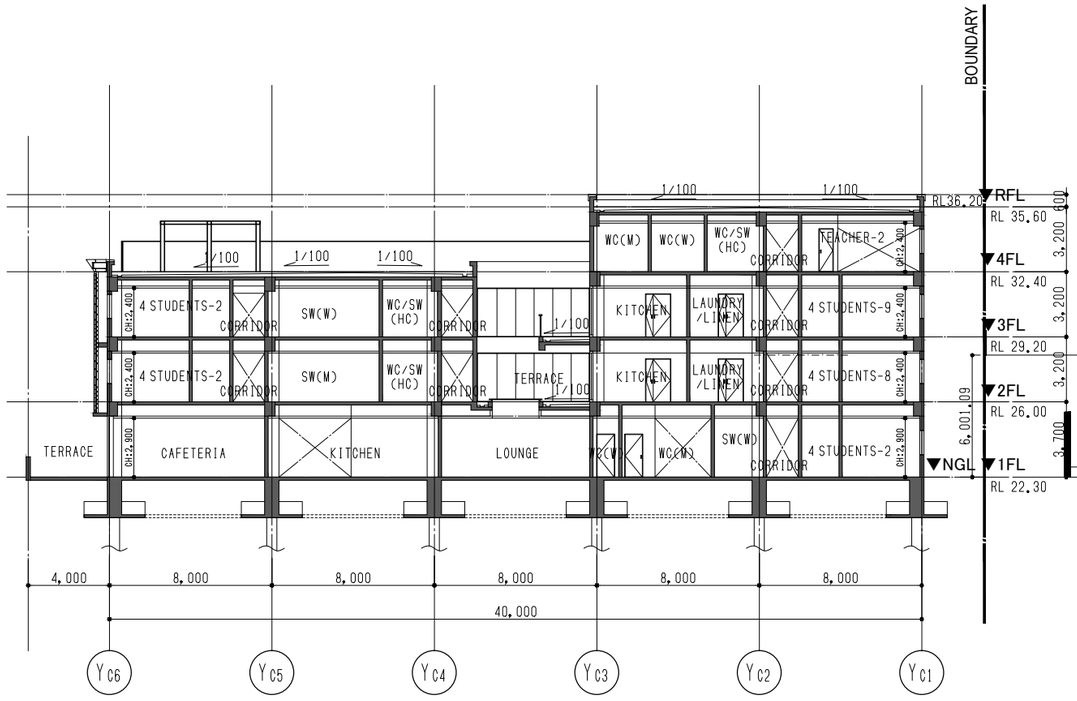
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Courthouse Elevations & Section

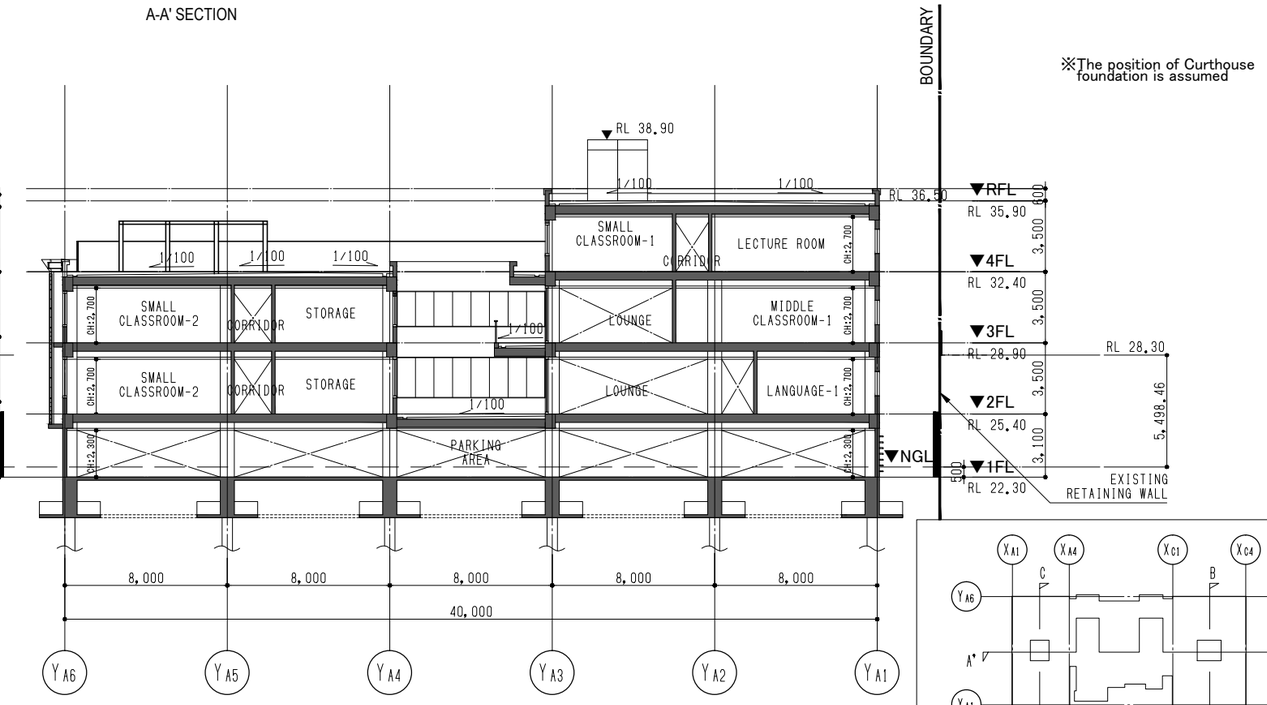
Scale 1/A1:150 A3:300
Date 2018・12・14
Drawing No. A — 116
No Rev — 0



A-A' SECTION



B-B' SECTION



C-C' SECTION

Key Plan

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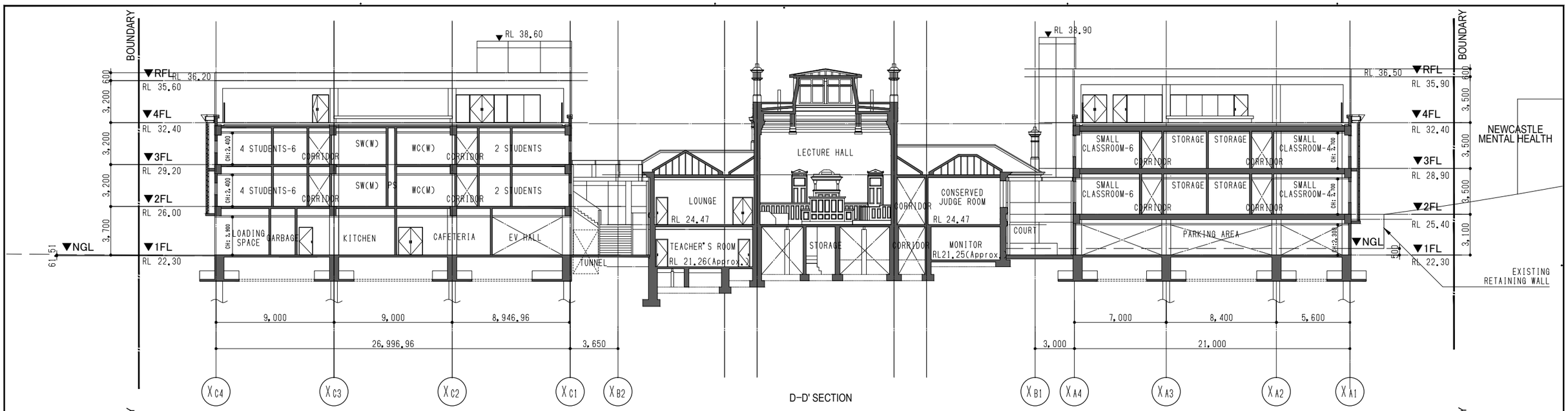
Planner

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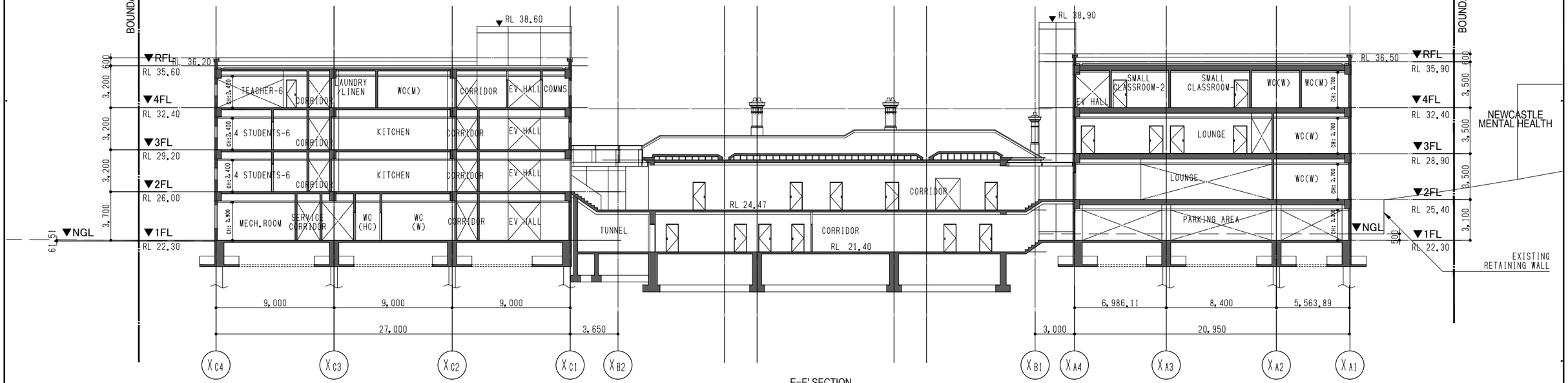
Sections-1

Scale 1/A1:150 A3:300
Date 2018・12・14

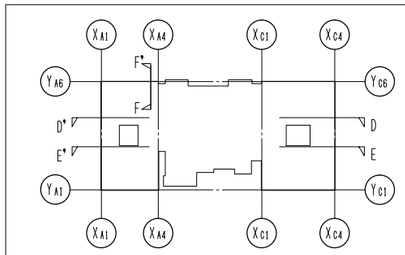
Drawing No. A — 117
No Rev-0



D-D' SECTION



E-E' SECTION



Key Plan

F-F' SECTION (S:1/100 A3)

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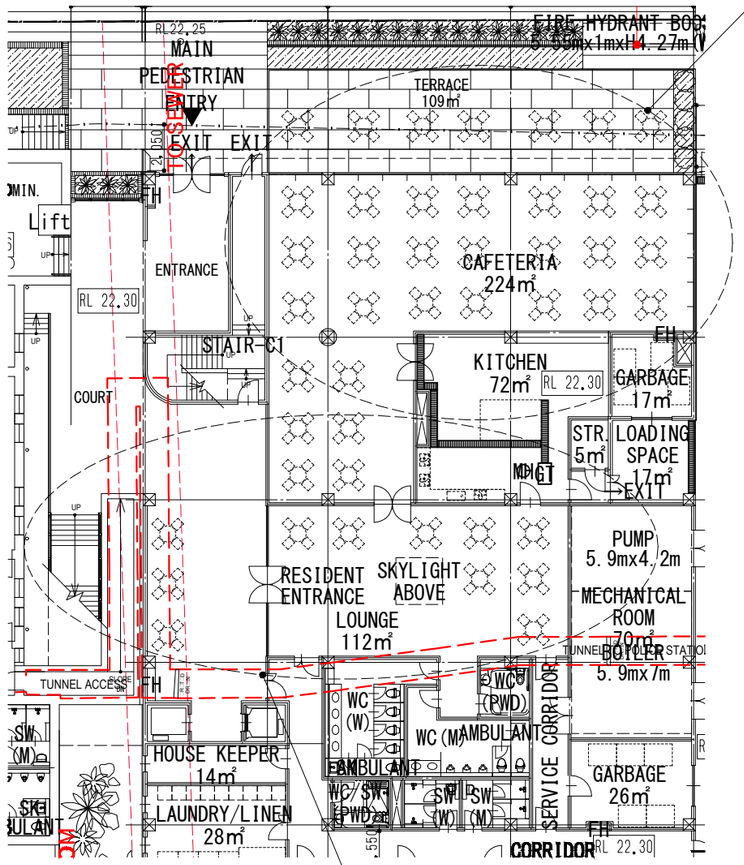
Planner

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Sections-2

Scale 1/A1:150 A3:300
Date 2018・12・14

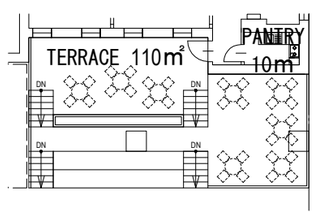
Drawing No. A — 118
No Rev-0



1st Floor Amenity Area
- Entrance Lobby/ Lounge
- Cafeteria
- Southern Terrace

Entrance Hall & Lounge

The Entrance hall opens to a double height glass atrium adjacent to the Courthouse side elevation to give an established environment of the University and yet soft and kind thanks to the natural light and the natural flow of air, and the sight visibility that is continuous till the end section.
Lounge area has a sky light to allow natural light from above but with the double height atrium aside, gives openness and a feeling of a safe environment, being already in a closed protected space. The Lounge, though semi-public area, would give a feeling of relaxation coming back home.



Southern Terrace

Backside terrace offers anintimate external outside communication space facing the Japanese Maple trees and is an outdoor private area. Directly accessible from the Old Library, the Southern terrace area offers calm and tranquil space to sit and relax in the breeze. In Autumn time while sipping hot coffee, students can enjoy the colourful leaves of the Momiji.

Cafeteria

The cafeteria is open to 2 sides to allow natural light to come in. It is equipped with an outside terrace open to street and public so that on sunny days and under nice weather students can enjoy snacks outside. The Cafeteria would offer pre-cooked catered light meals and beverages. Designed with natural light and earthy colours, the cafeteria offers relaxed and open interactive communication space for everyday.

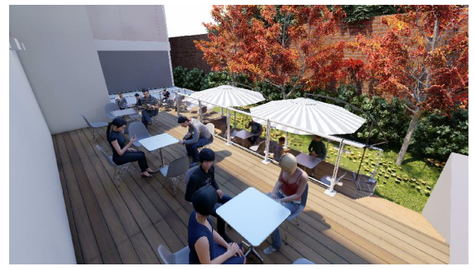


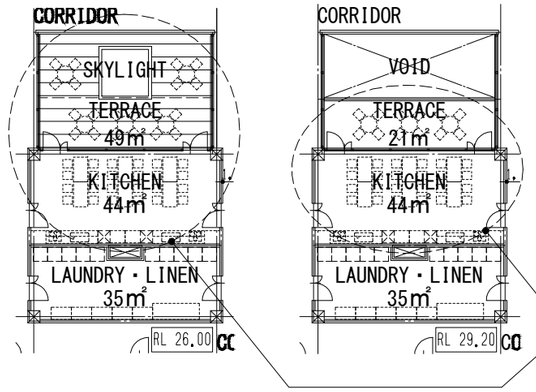
Privacy Considerations

On the front façade, privacy is assured with the louvres screen on the outside that would limit not only direct sun-light but also views from the street or from the buildings across the road. It would also limit the views from inside into the building across the road. Where the louvres are not installed, curtains and blinds inside the rooms would be used for privacy controls.
Privacy for the rooms facing the atrium, the three rooms fronting the stair is outside the atrium, so that the glass wall with wooden louvres would shut the view and for the remaining two rooms, there is enough distance so that there would be no straight views.

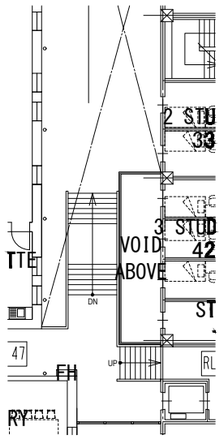








2nd Floor Amenity Area
- Communal Kitchen
- Terrace



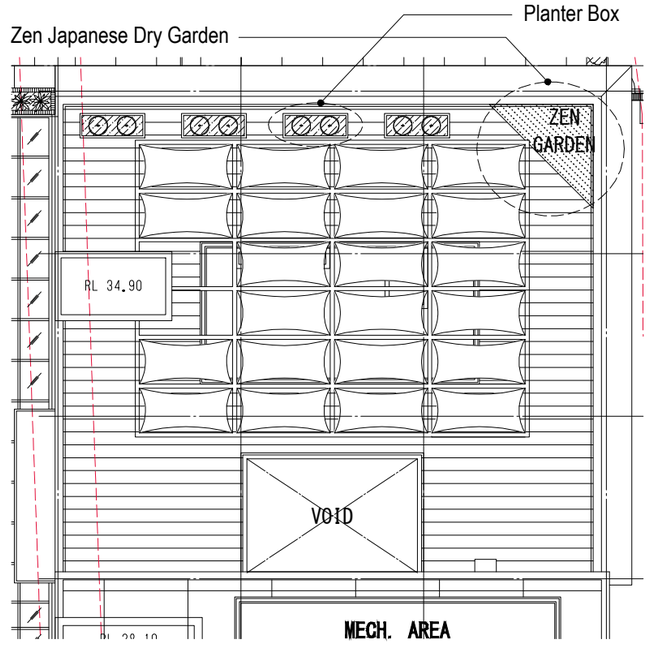
Atrium & Open-Stair



Kitchenette and Inner Terrace

Provided at every dormitory floor, the kitchenette and inner terrace open to air provide a private communal space for student use. Students can make their own light food or wait for their laundry to get done.
It is also the only space where cross gender communication is possible between terraces.





Rooftop Terrace

The roof top terrace offers a large space for an outdoor relaxation. The wooden deck and a Japanese zen stone garden at the corner, together with plants in the boxes would offer a private garden for the exclusive student use.

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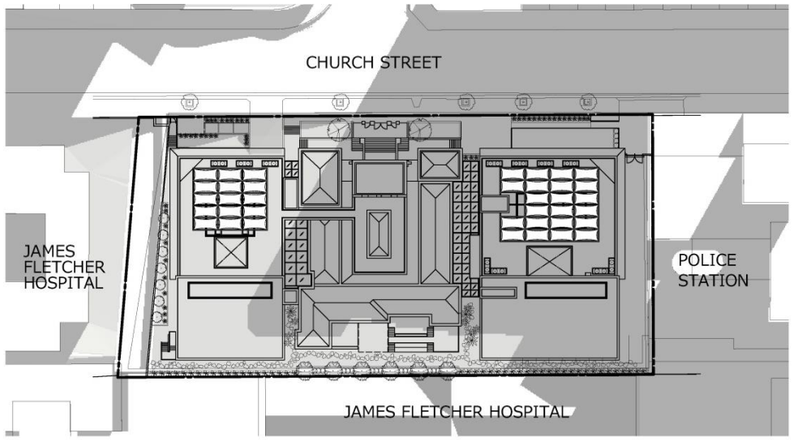
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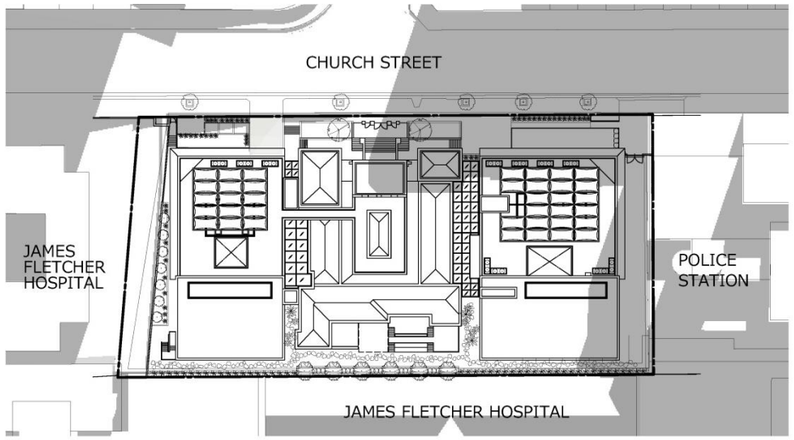
Amenity Planning

Scale 1/ A1:1/50 A3:1/300
Date 2018 • 12 • 14

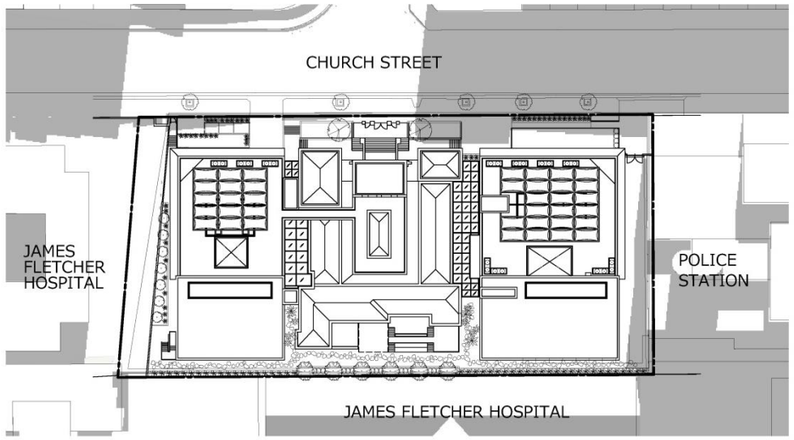
Drawing No. A — 119
No Rev-0



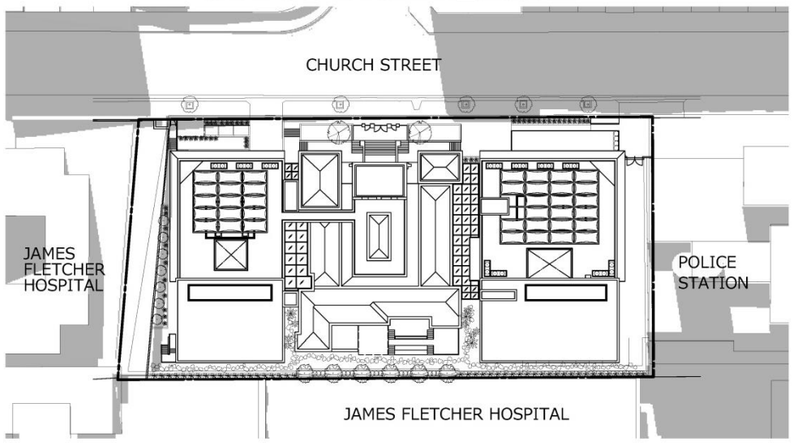
SHADOW DIAGRAM_9:00am



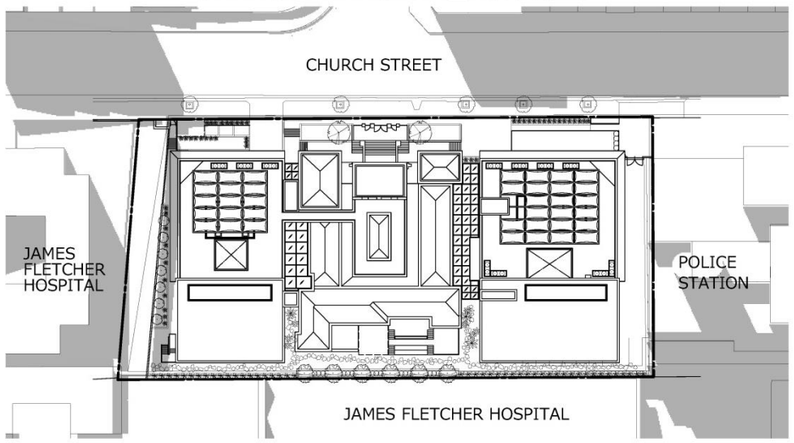
SHADOW DIAGRAM_10:00am



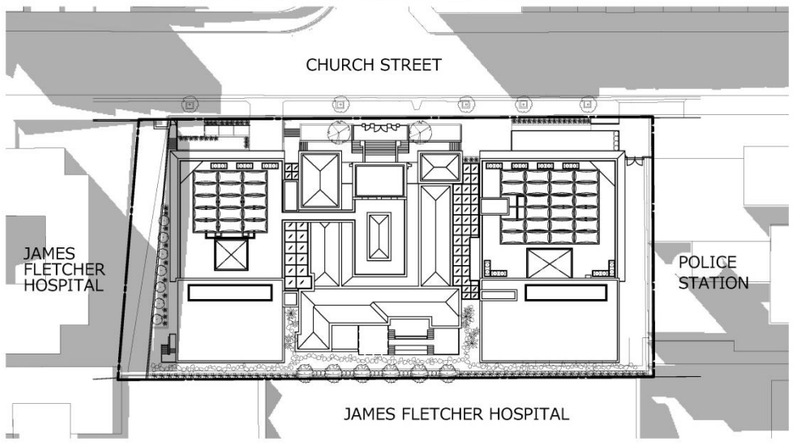
SHADOW DIAGRAM_11:00am



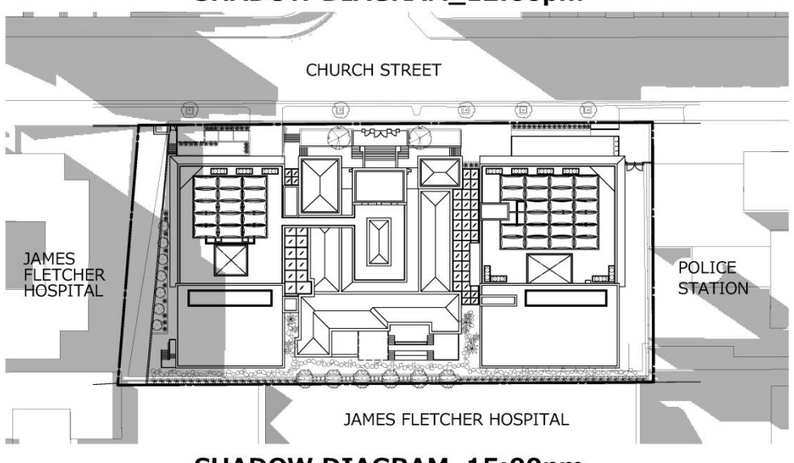
SHADOW DIAGRAM_12:00pm



SHADOW DIAGRAM_1:00pm



SHADOW DIAGRAM_14:00pm



SHADOW DIAGRAM_15:00pm

NOTE: ALL SHADOWS TAKEN AT THE WINTER SOLTICE – JUNE 21ST

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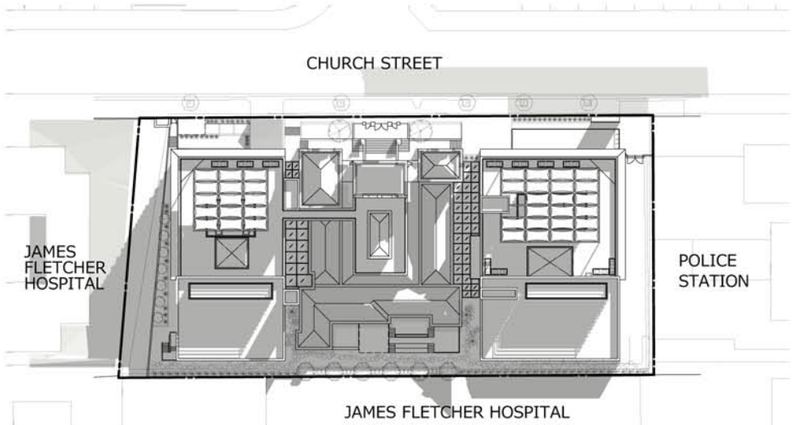
Nihon University
Australia Newcastle Campus Project

SHADOW DIAGRAM_Shadow by Neighbours

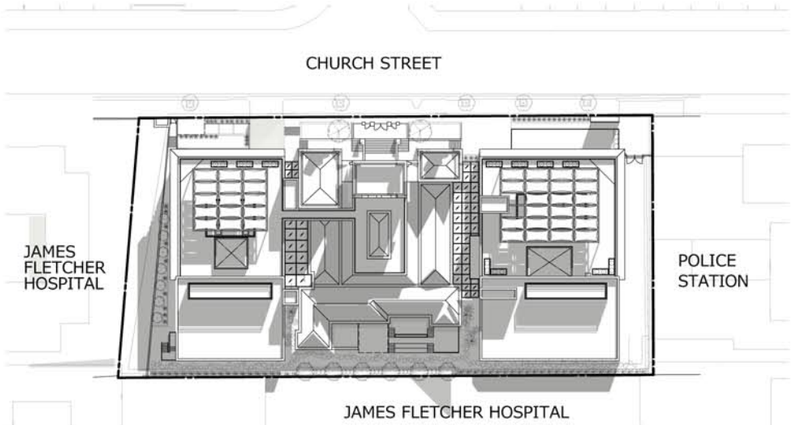
Scale 1/A1:600 A3:1200 | Date 2018・11・30

Drawing No. A — 120

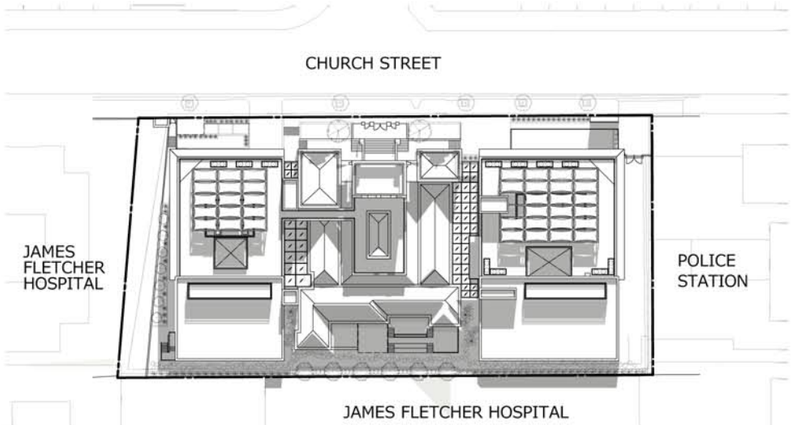
No. Rev – 0



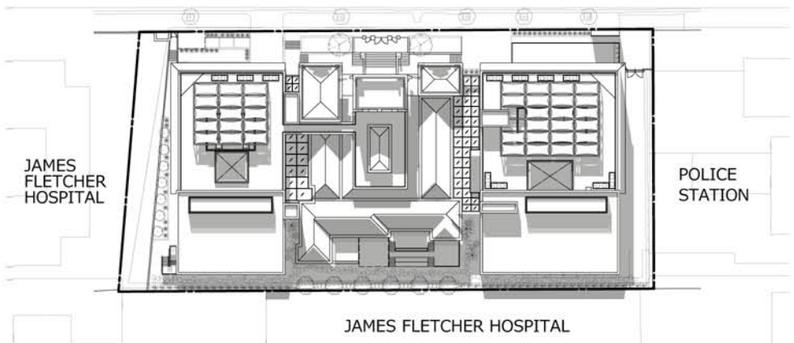
SHADOW DIAGRAM_9:00am



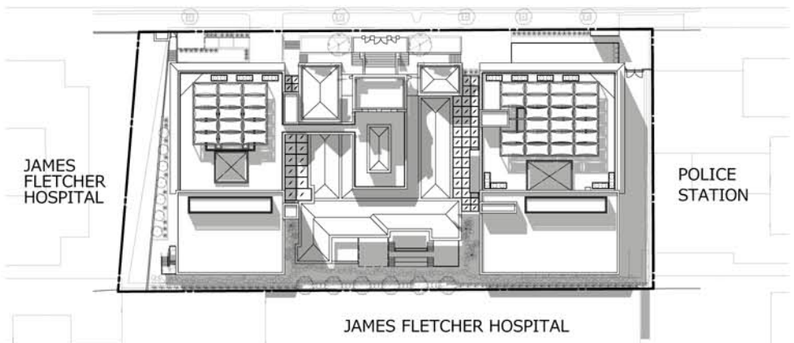
SHADOW DIAGRAM10:00am



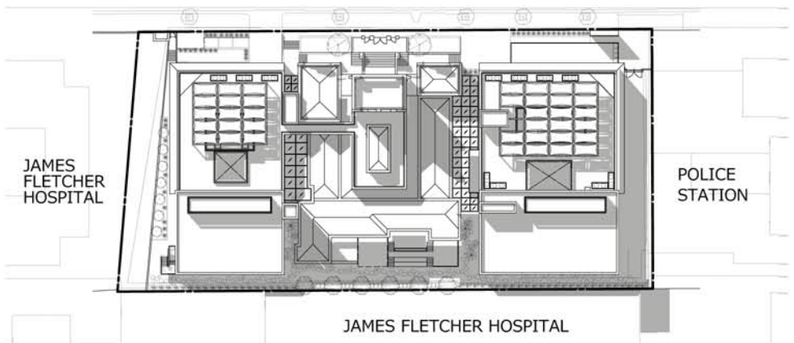
SHADOW DIAGRAM_11:00am



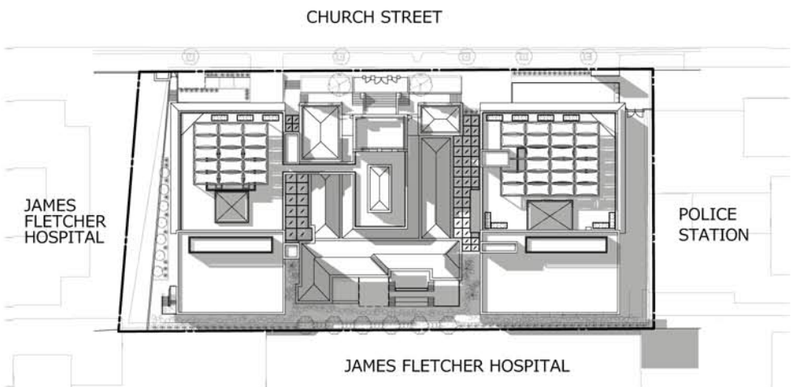
SHADOW DIAGRAM_12:00pm



SHADOW DIAGRAM_13:00pm



SHADOW DIAGRAM_14:00pm



SHADOW DIAGRAM_15:00pm

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SHADOW DIAGRAM_Shadow by Campus

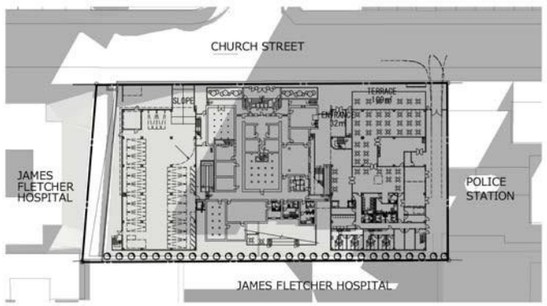
Scale 1/A1:600 A3:1200 | Date 2018・11・30

Drawing No. A — 121

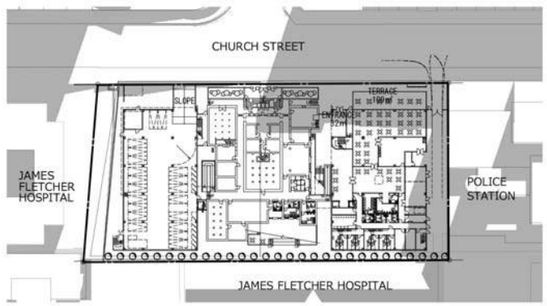
No Rev − 0

1st Floor Sunlight Diagrams

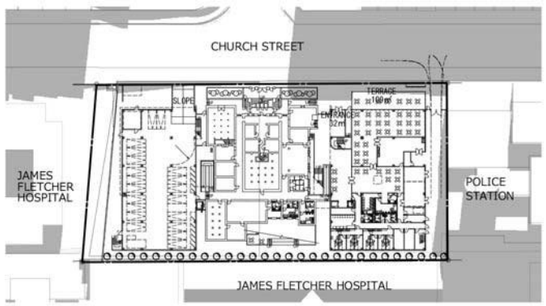
SCALE 1:900(A1), 1:1800(A3)



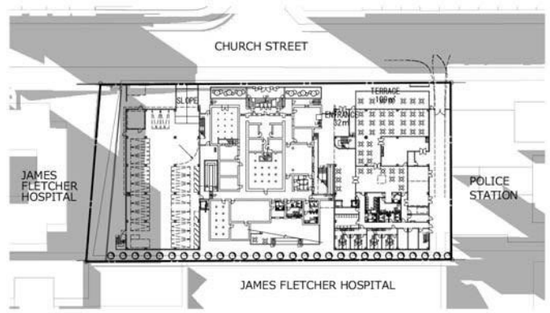
SHADOW DIAGRAM_9:00am



SHADOW DIAGRAM_10:00am



SHADOW DIAGRAM_11:00am



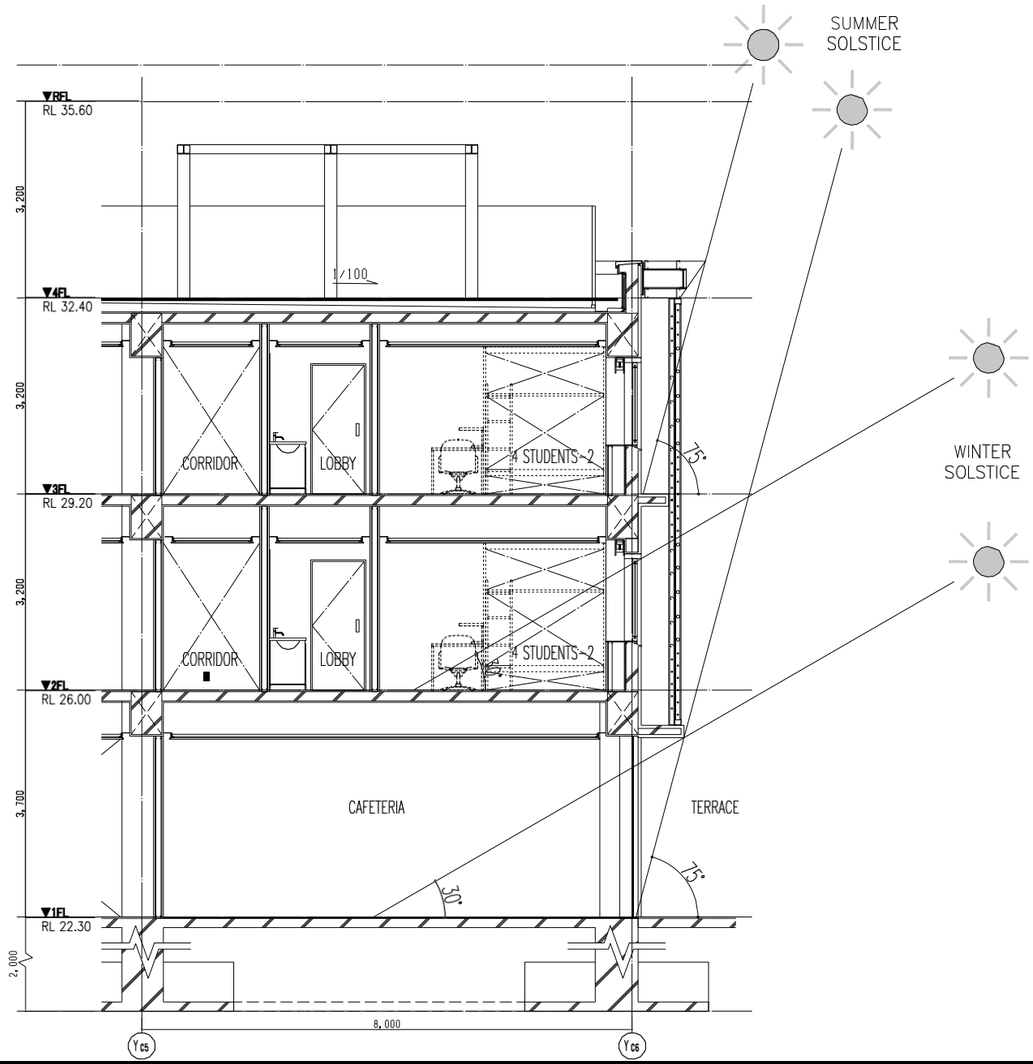
SHADOW DIAGRAM_15:00pm



Note: All Shadows taken at the winter solstice – June 21st

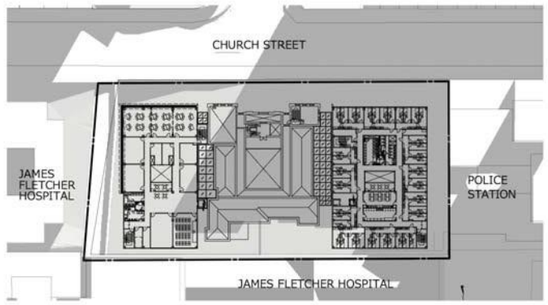
SUNLIGHT ANALYSIS (WALL SECTION A–A')

SCALE 1:50(A1), 1:100(A3)

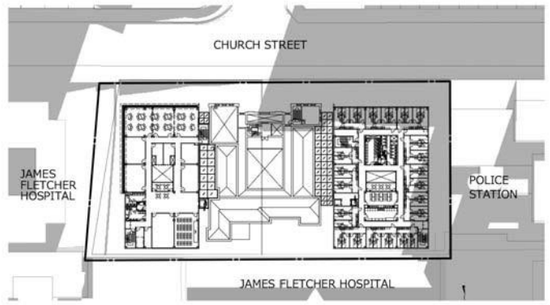


3rd Floor Sunlight Diagrams

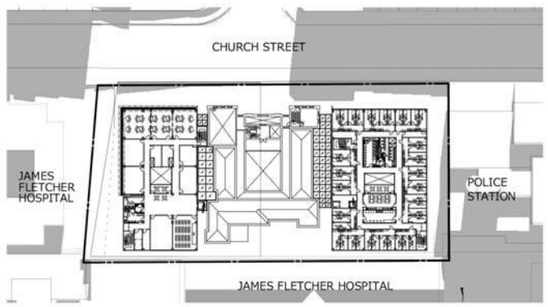
SCALE 1:900(A1), 1:1800(A3)



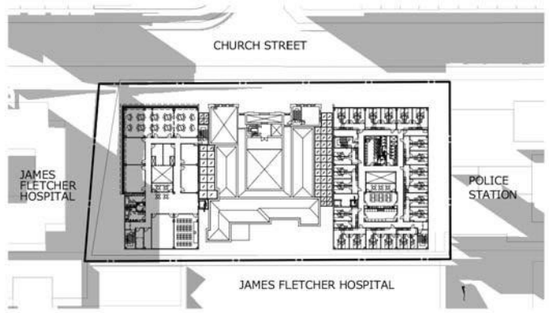
SHADOW DIAGRAM_9:00am



SHADOW DIAGRAM_10:00am



SHADOW DIAGRAM_11:00am



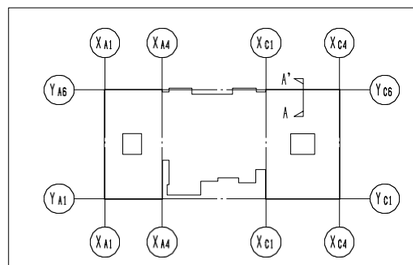
SHADOW DIAGRAM_15:00pm



Natural light in the rooms.

The project site is very small and the residential building is adjacent to the police building which over shadows the site considerably.
The sun shadow diagrams show that the cafeteria, classrooms, and bedrooms facing north would receive direct sunlight at winter solstice for minimum 4hours between 10am and 3pm without getting affected by the shadows of the surrounding buildings.
For the rooms facing east, wet and south, the habitable areas would not be affected by the shadows of the surrounding building for 4hours between 10am and 3-pm depending on the location, thus receiving natural light at some time of the day during winter solstice.

Note: All Shadows taken at the winter solstice – June 21st



Key Plan

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Sunlight Analysis

Drawing No. A — 122

Scale 1/A1:50 A3:100

Date 2016 - 12 - 14

No Rev – 0