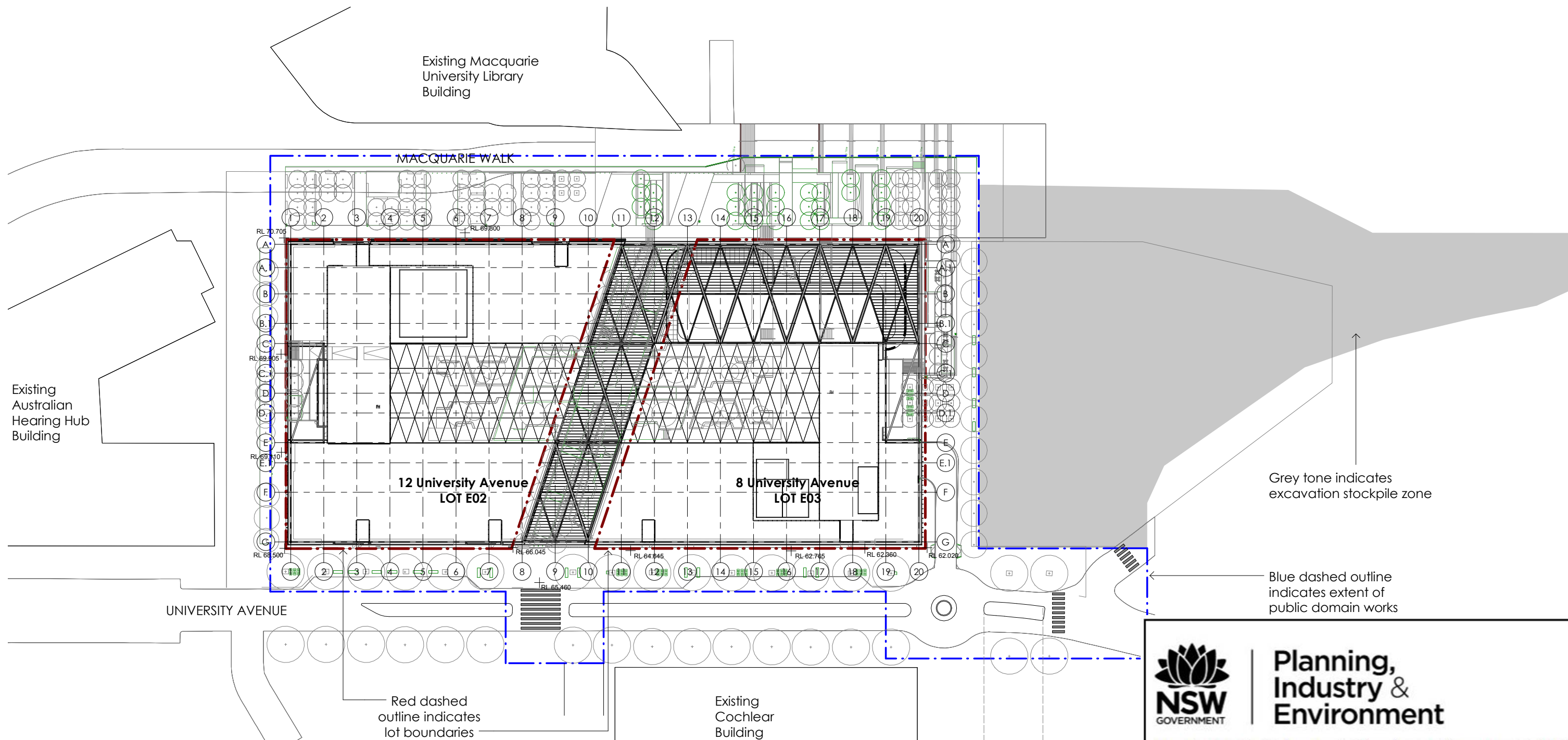
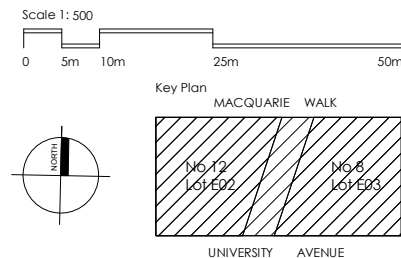




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Issued under the Environmental Planning and Assessment Act 1979

Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA01.01

Signed: *David Liff*

J	Issued For SSD Approval	SJ	2.11.2018
I	Issue for approval	SJ	31.01.2018
H	Issue For Approval	SJ	22.11.2017
G	Issue For Approval	SJ	21.11.2017
Rev.	Revision Description	CHK.	Date

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Client



MACQUARIE
University

Project Manager

CADENCE
AUSTRALIA

Architects

KANNFINCH | SISSONS

Kann Finch Group Pty Ltd - 50 Carrington St Sydney NSW 2000
ACN 139 614 798 Tel +61 2 9299 4111 www.kannfinch.com
Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

SITE PLAN

Drawing No.

KFS-812UA-AR-DWG-DA01.01

Scales 1: 500 @ A1

Drawn: SG

Checked:

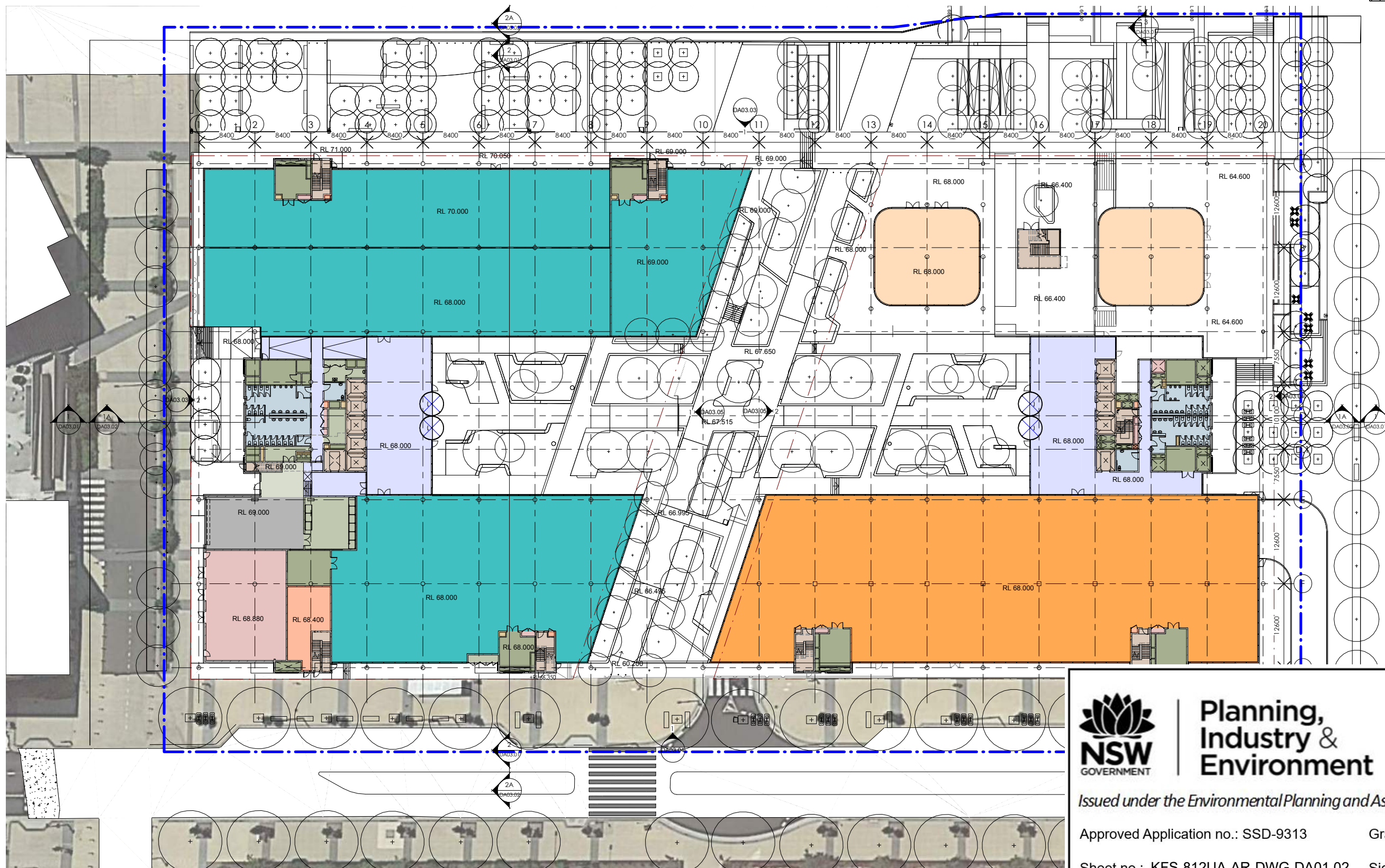
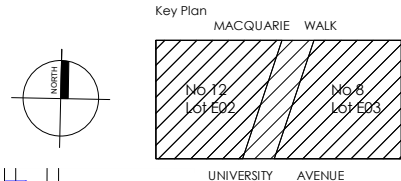
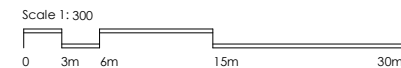
Revision

J

Project No.

6508

2/11/2018 10:23:43 AM: Plot Date



Planning,
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Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA01.02

Signed: *David Liff*

H	Issued For SSD Approval	SJ	2.11.2018
G	Issue for approval	SJ	31.01.2018
F	Issue For Approval	SJ	22.11.2017
E	Issue For Approval	SJ	21.11.2017
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Client



Project Manager



Architects



Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

SITE & CONTEXT

Drawing No.

KFS-812UA-AR-DWG-DA01.02

Scales 1:300 @ A1

Drawn

Checked

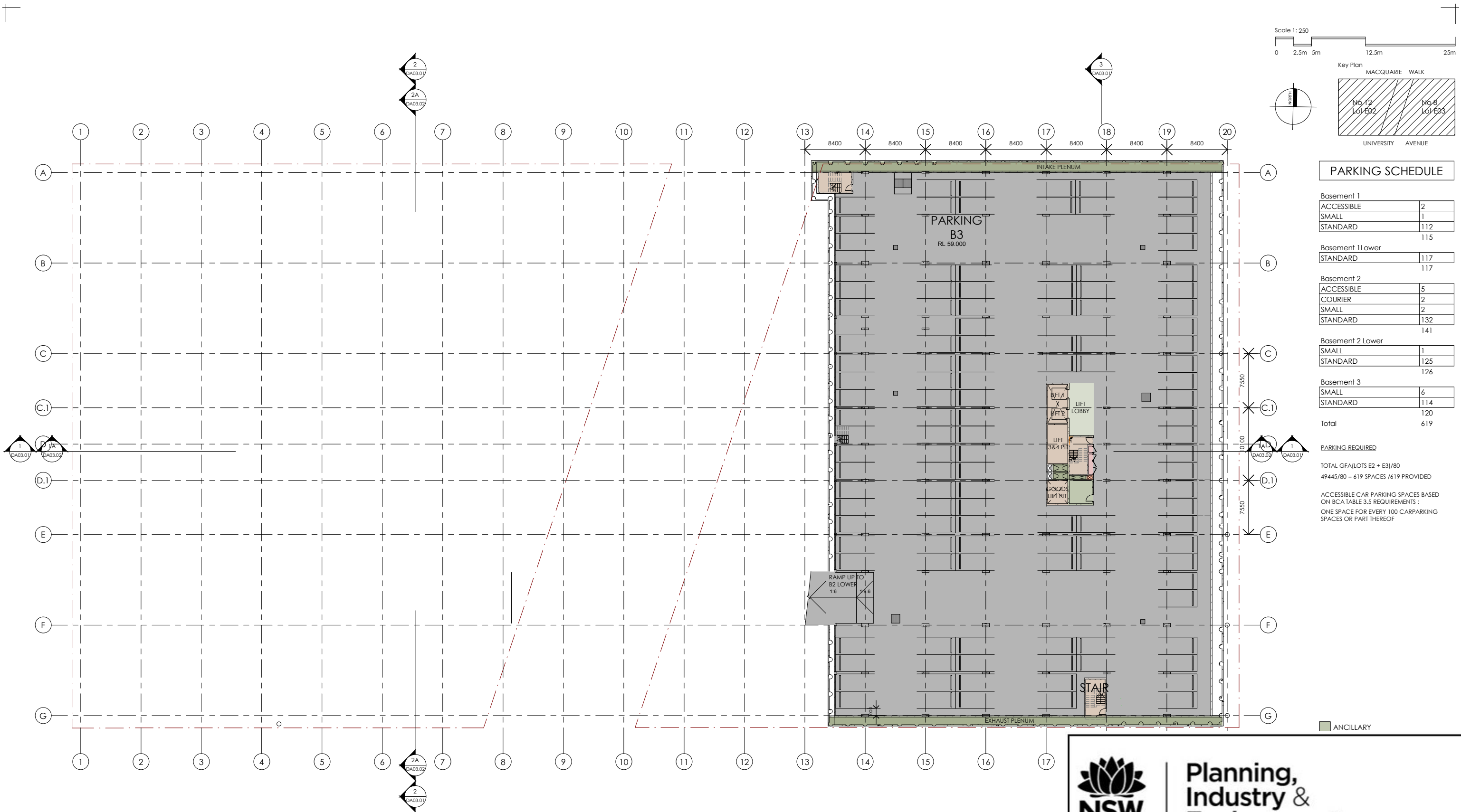
Revision

H

Project No.

6508

2/11/2018 10:56:33 AM - Plot Date



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Granted on: 21/09/20

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Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

BASEMENT 3 PLAN

Drawing No.

KFS-812UA-AR-DWG-DA02.01

Scales 1 : 250 @ A1

Drawn SG

Checked

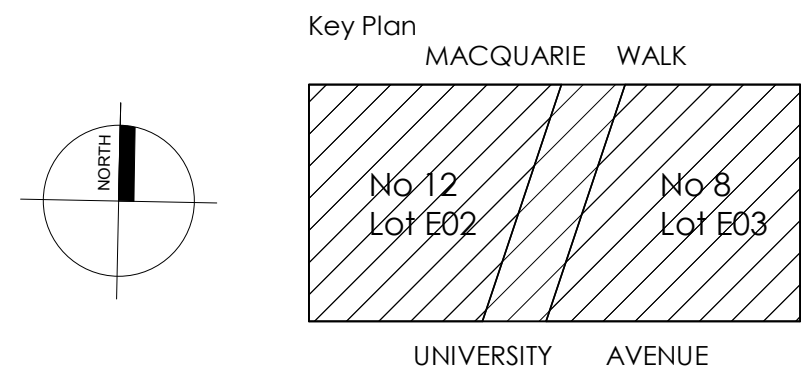
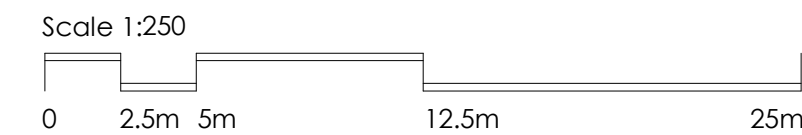
Revision

J

Project No.

6508

2/11/2018 10:23:57 AM - Plot Date



PARKING SCHEDULE

Basement 1	
ACCESSIBLE	2
SMALL	1
STANDARD	112
	115

Basement 1 Lower	
STANDARD	117
	117

Basement 2	
ACCESSIBLE	5
COURIER	2
SMALL	2
STANDARD	132
	141

Basement 2 Lower	
SMALL	1
STANDARD	125
	126

Basement 3	
SMALL	6
STANDARD	114
	120
Total	619

PARKING REQUIRED

TOTAL GFA(LOTS E2 + E3)/80
49445/80 = 619 SPACES /619 PROVIDED

ACCESSIBLE CAR PARKING SPACES
BASED ON BCA TABLE 3.5 REQUIREMENTS
ONE SPACE FOR EVERY 100
CARPARKING SPACES OR PART THEREOF

- ANCILLARY
- BOH CIRCULATION
- ELECTRICAL
- END OF TRIP FACILITIES
- FIRE
- HYDRAULIC
- MECHANICAL
- PARKING
- RETAIL
- VERTICAL CIRCULATION

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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA02.02 Signed:

K	Dangerous goods Store Added	SJ	22.04.2020
J	Issued For SSD Approval	SJ	2.11.2018
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H	Issue For Approval	SJ	22.11.2017
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8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

LOWER GROUND AND BASEMENT 2

Drawing No.
KFS-812UA-AR-DWG-DA02.02

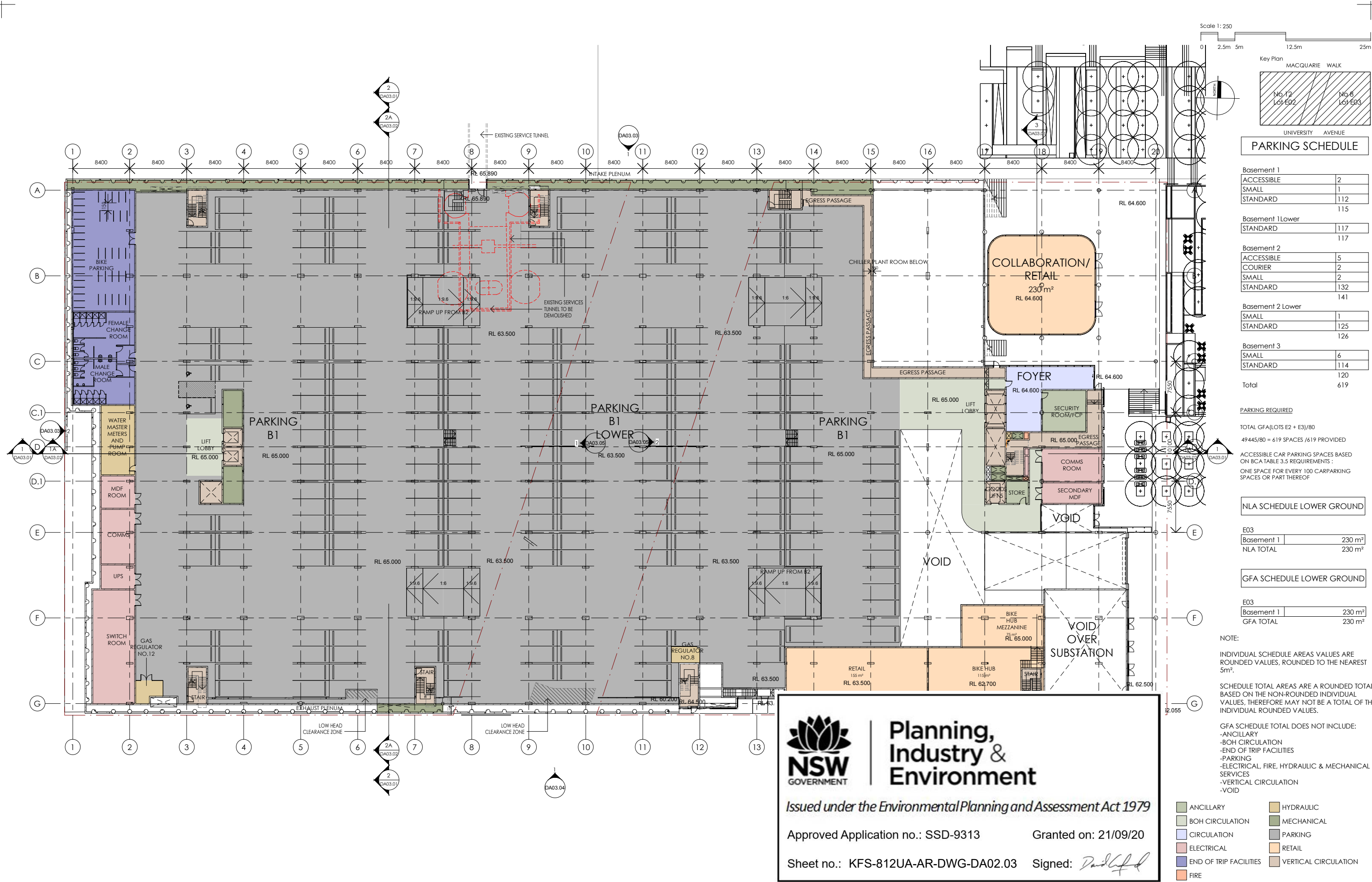
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Project No.
6508

Scales 1 : 250 @ A1 Drawn SG Checked

22/04/2020 3:23:54 PM : Plot Date



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Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing
THE COMMON AND BASEMENT 1

Drawing No.
KFS-812UA-AR-DWG-DA02.03

Scales 1 : 250 @ A1

Drawn SG

Checked

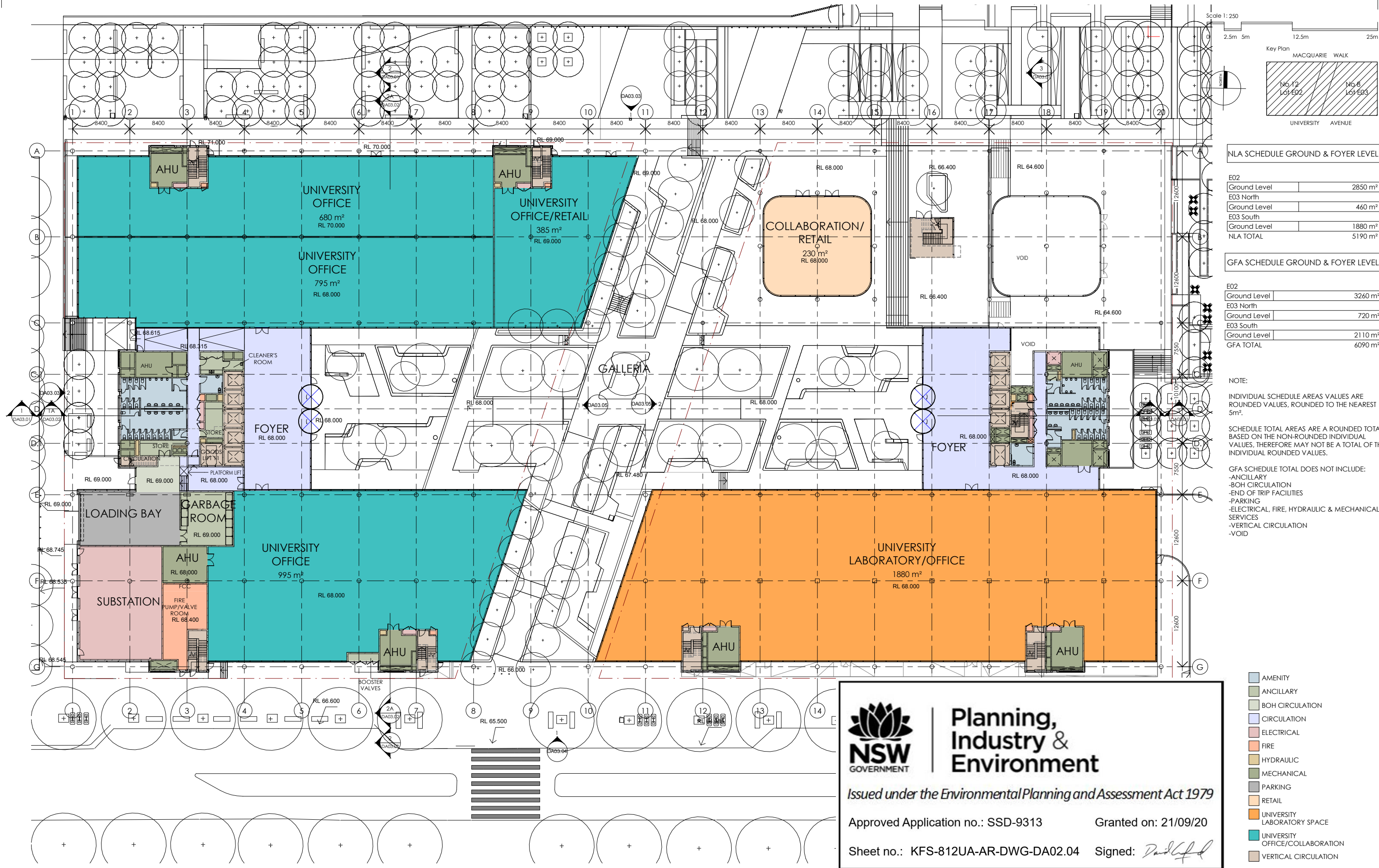
Revision

J

Project No.

6508

2/11/2018 10:56:39 AM - Plot Date



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Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

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8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

GROUND AND UPPER GROUND FLOOR PLAN

Drawing No.
KFS-812UA-AR-DWG-DA02.04

Scales 1 : 250 @ A1

Drawn: SG

Checked:

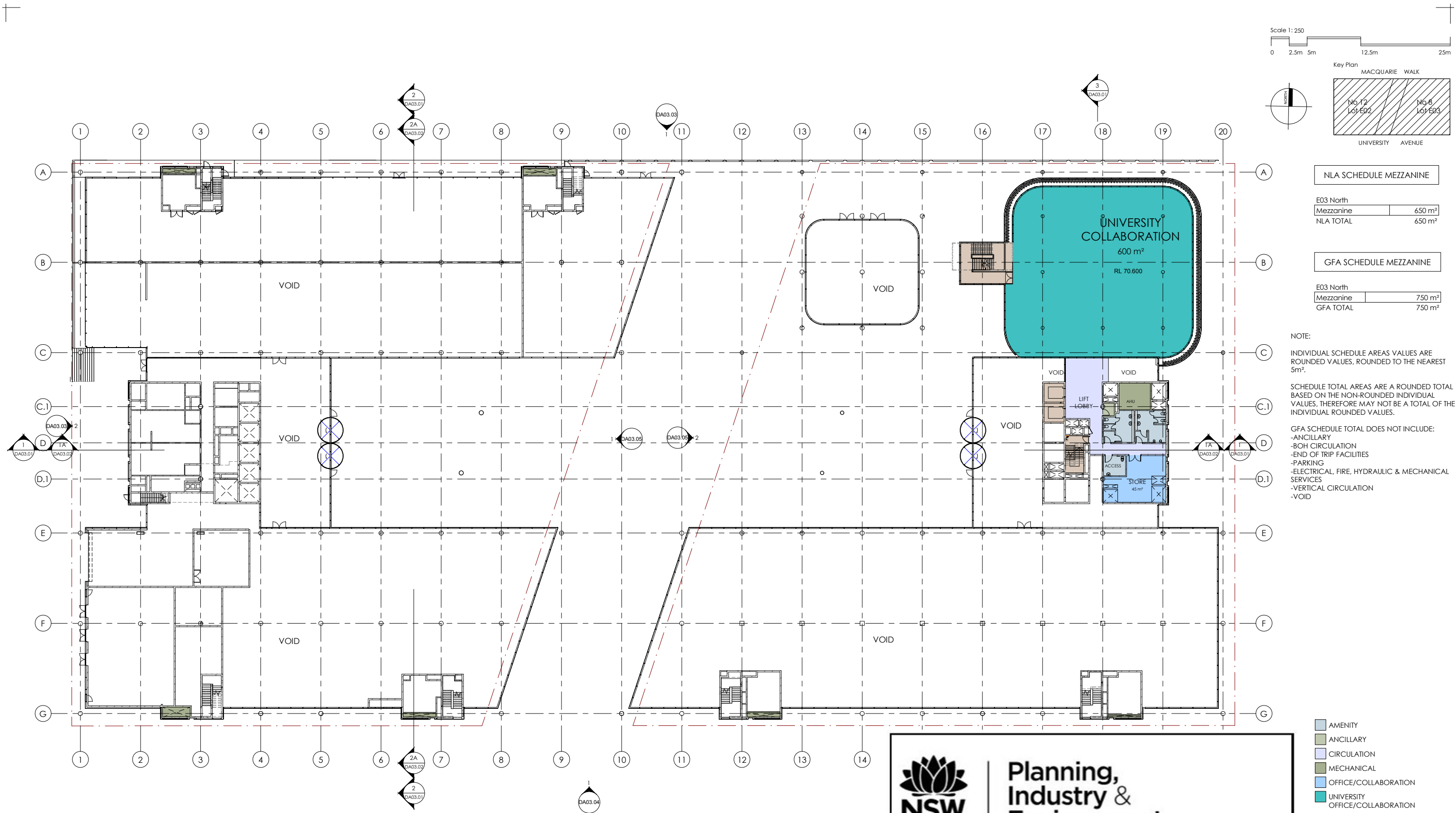
Revision

J

Project No.

6508

2/11/2018 10:56:44 AM - Plot Date



NLA SCHEDULE MEZZANINE

E03 North	
Mezzanine	650 m²
NLA TOTAL	650 m²

GFA SCHEDULE MEZZANINE

E03 North	
Mezzanine	750 m²
GFA TOTAL	750 m²

NOTE:

INDIVIDUAL SCHEDULE AREAS VALUES ARE
ROUNDED VALUES, ROUNDED TO THE NEAREST
5m².

SCHEDULE TOTAL AREAS ARE A ROUNDED TOTAL
BASED ON THE NON-ROUNDED INDIVIDUAL
VALUES, THEREFORE MAY NOT BE A TOTAL OF THE
INDIVIDUAL ROUNDED VALUES.

GFA SCHEDULE TOTAL DOES NOT INCLUDE:

- ANCILLARY
- BOH CIRCULATION
- END OF TRIP FACILITIES
- PARKING
- ELECTRICAL, FIRE, HYDRAULIC & MECHANICAL
SERVICES
- VERTICAL CIRCULATION
- VOID

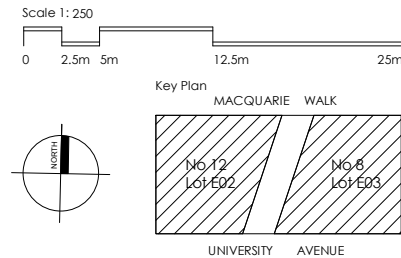
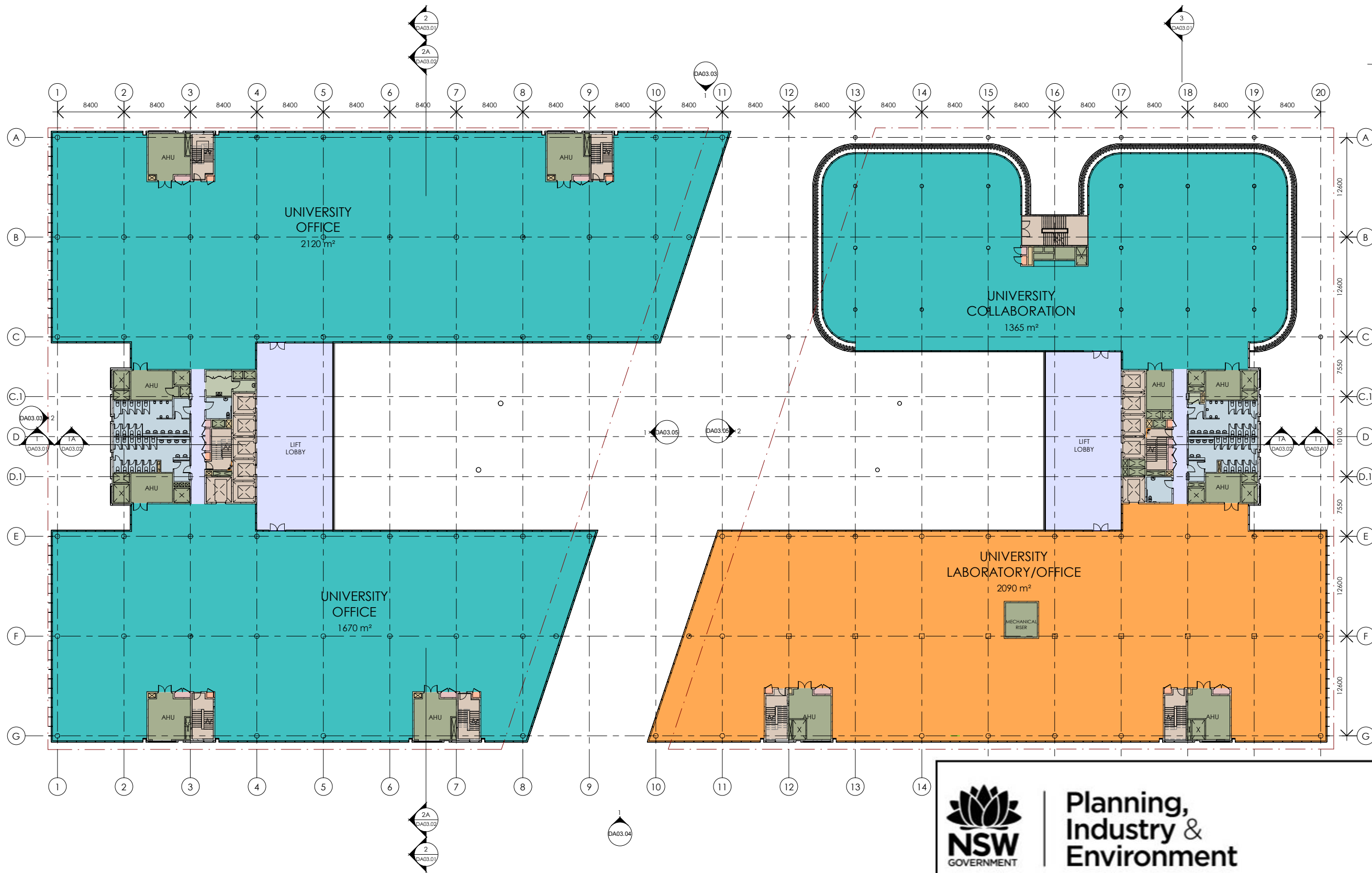


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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA02.05 Signed: *David Gifford*



NLA SCHEDULE LEVEL 1

E02	
Level 1	3790 m²
	3790 m²
E03 North	
Level 1	1370 m²
	1370 m²
E03 South	
Level 1	2090 m²
	2090 m²
NLA TOTAL	7250 m²

GFA SCHEDULE LEVEL 1

E02	
Level 1	4140 m²
	4140 m²
E03 North	
Level 1	1520 m²
	1520 m²
E03 South	
Level 1	2270 m²
	2270 m²
GFA TOTAL	7930 m²

NOTE:

INDIVIDUAL SCHEDULE AREAS VALUES ARE ROUNDED VALUES, ROUNDED TO THE NEAREST 5m².

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- BOH CIRCULATION
- END OF TRIP FACILITIES
- PARKING
- ELECTRICAL, FIRE, HYDRAULIC & MECHANICAL SERVICES
- VERTICAL CIRCULATION
- VOID

- AMENITY
- ANCILLARY
- CIRCULATION
- ELECTRICAL
- FIRE
- HYDRAULIC
- MECHANICAL
- UNIVERSITY LABORATORY SPACE
- UNIVERSITY OFFICE/COLLABORATION
- VERTICAL CIRCULATION



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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA02.06 Signed: *Paul Luff*

J	Issued For SSD Approval	SJ	2.11.2018
I	Issue for approval	SJ	31.01.2018
H	Issue For Approval	SJ	22.11.2017
G	Issue For Approval	SJ	21.11.2017
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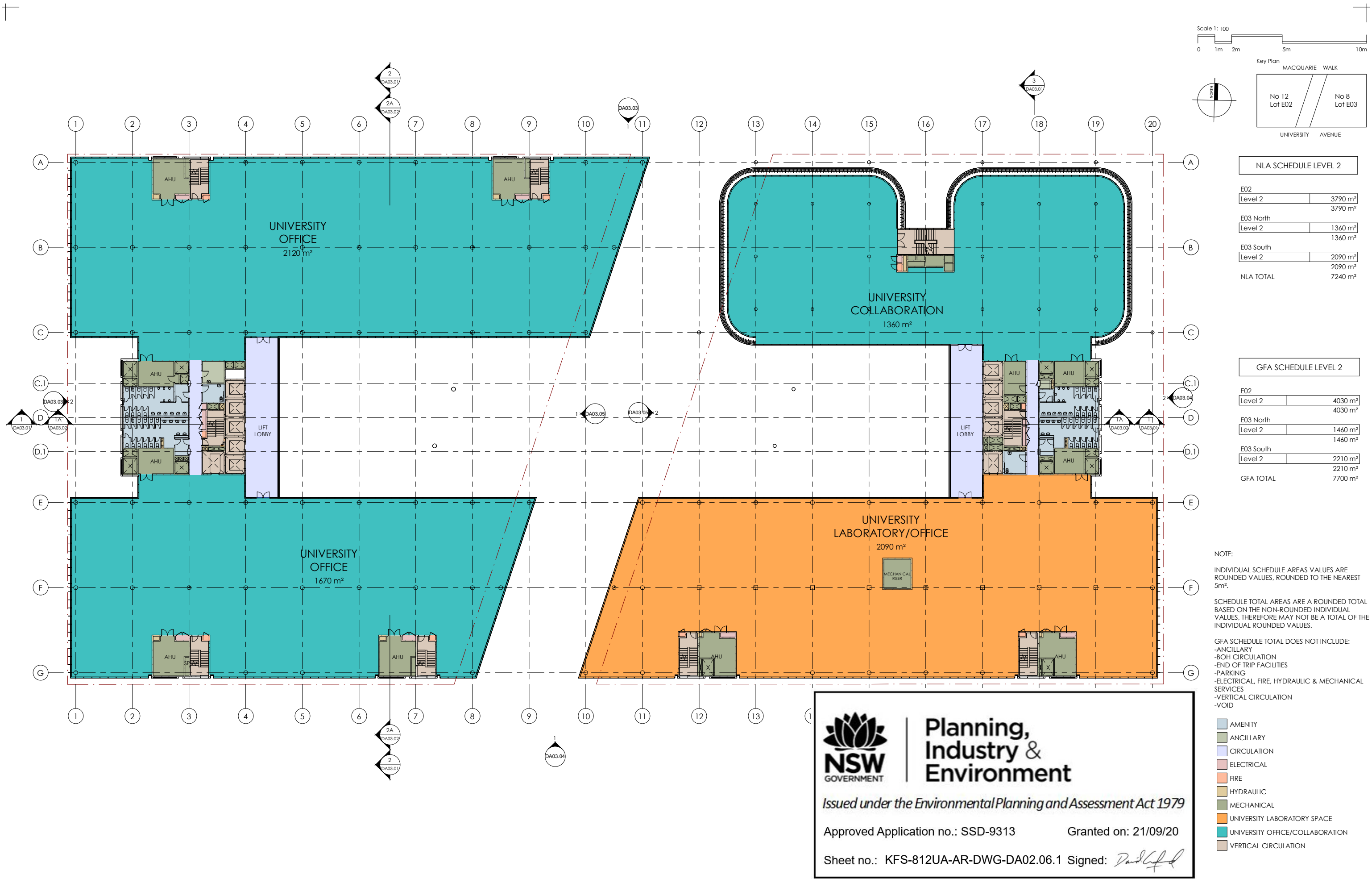
Project
**8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY**

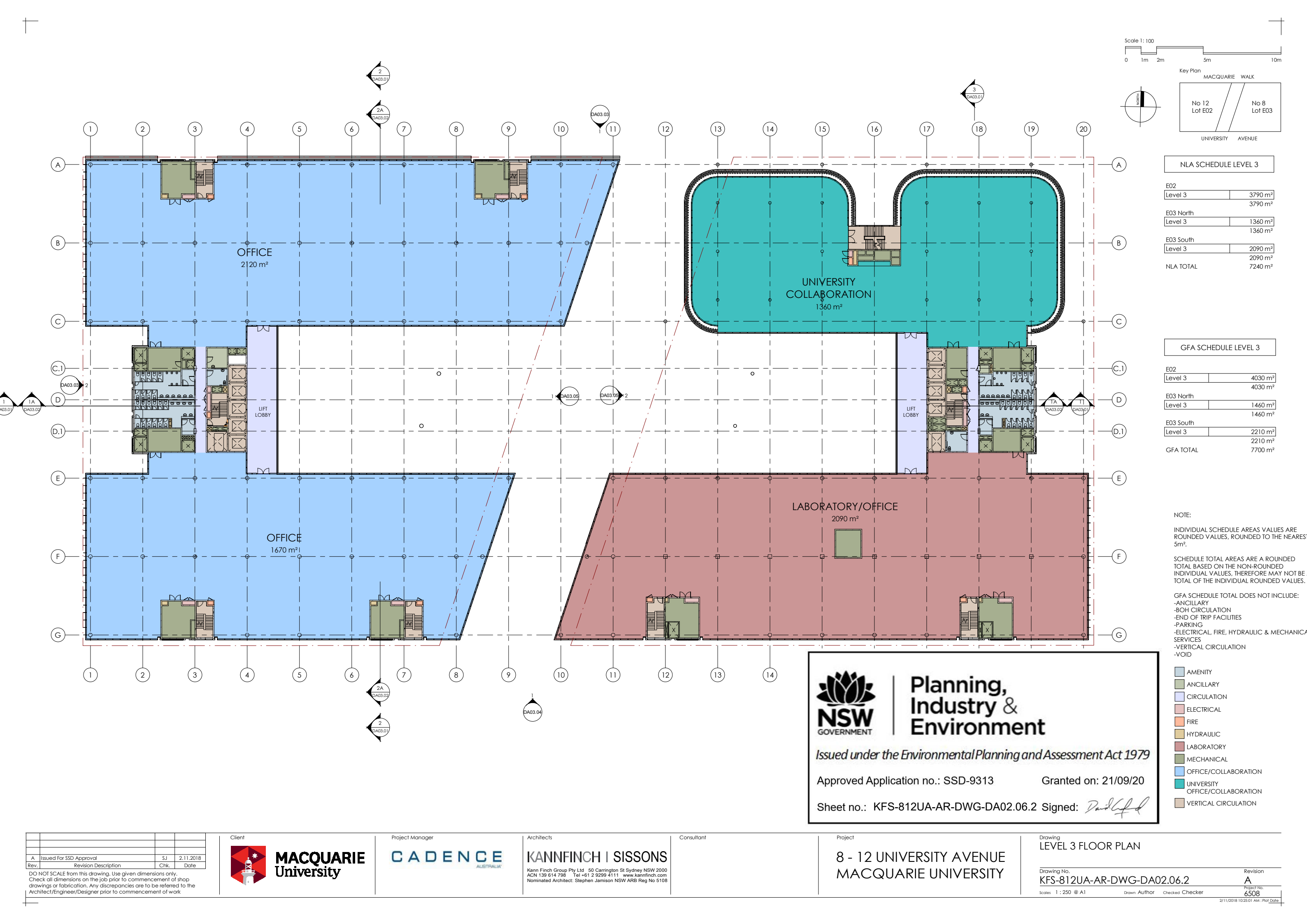
Drawing
LEVEL 1 FLOOR PLAN

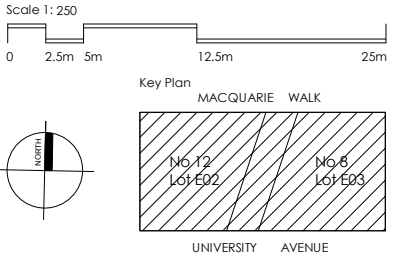
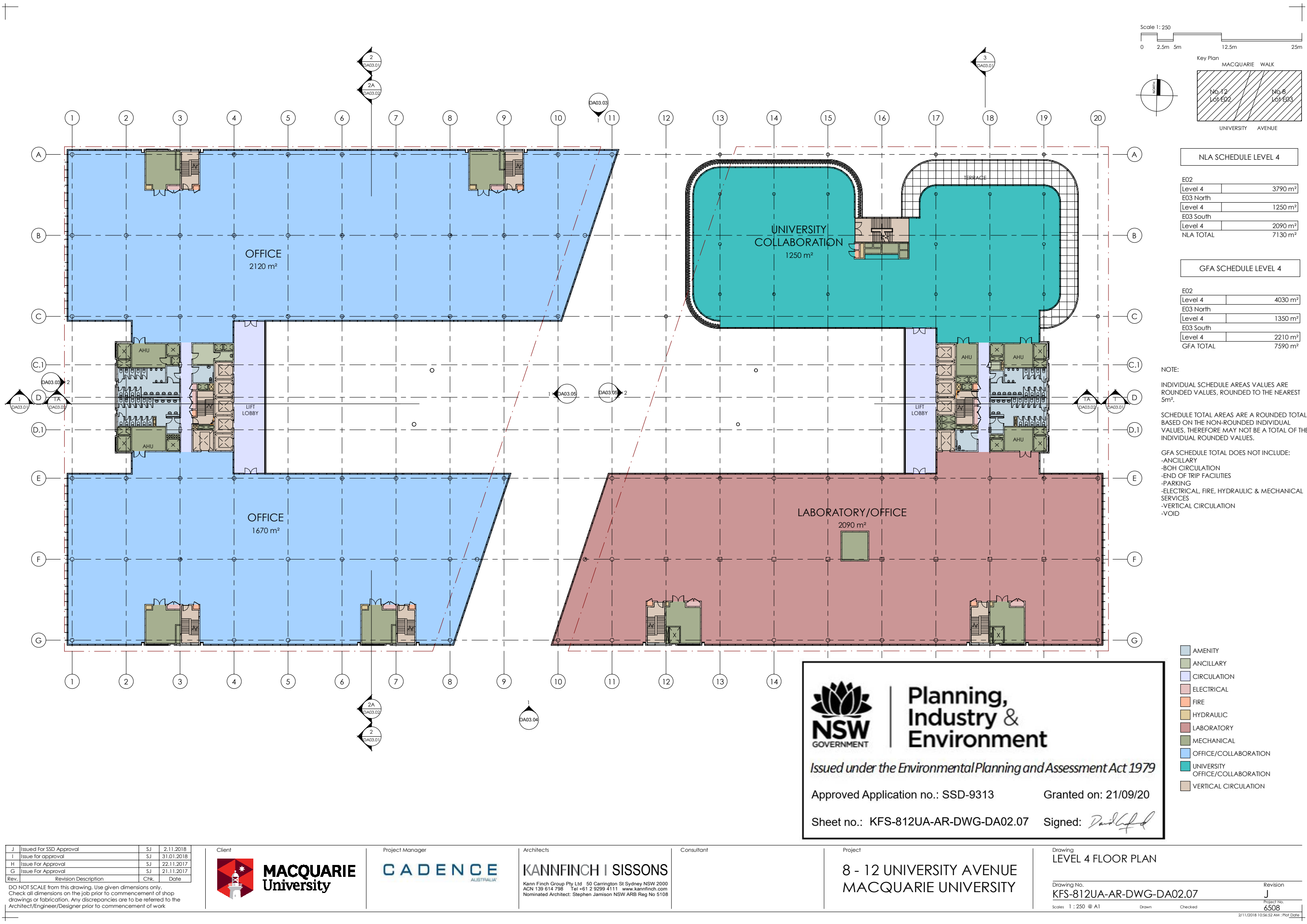
Drawing No.
KFS-812UA-AR-DWG-DA02.06

Scales 1 : 250 @ A1 Drawn: SG Checked:

Revision
J
Project No.
6508
2/11/2018 10:24:40 AM - Plot Date







NLA SCHEDULE LEVEL 4

E02	
Level 4	3790 m ²
E03 North	
Level 4	1250 m ²
E03 South	
Level 4	2090 m ²
NLA TOTAL	7130 m ²

GFA SCHEDULE LEVEL 4

E02	
Level 4	4030 m ²
E03 North	
Level 4	1350 m ²
E03 South	
Level 4	2210 m ²
GFA TOTAL	7590 m ²

NOTE:

INDIVIDUAL SCHEDULE AREAS VALUES ARE ROUNDED VALUES, ROUNDED TO THE NEAREST 5m².

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GFA SCHEDULE TOTAL DOES NOT INCLUDE:

- ANCILLARY
- BOH CIRCULATION
- END OF TRIP FACILITIES
- PARKING
- ELECTRICAL, FIRE, HYDRAULIC & MECHANICAL SERVICES
- VERTICAL CIRCULATION
- VOID

- AMENITY
- ANCILLARY
- CIRCULATION
- ELECTRICAL
- FIRE
- HYDRAULIC
- LABORATORY
- MECHANICAL
- OFFICE/COLLABORATION
- UNIVERSITY OFFICE/COLLABORATION
- VERTICAL CIRCULATION



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Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA02.07

Signed: *David Lloyd*

J	Issued For SSD Approval	SJ	2.11.2018
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Client



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University

Project Manager

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AUSTRALIA

Architects

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ACN 139 614 798 Tel +61 2 9299 4111 www.kannfinch.com
Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

LEVEL 4 FLOOR PLAN

Drawing No.

KFS-812UA-AR-DWG-DA02.07

Scales 1 : 250 @ A1

Drawn

Checked

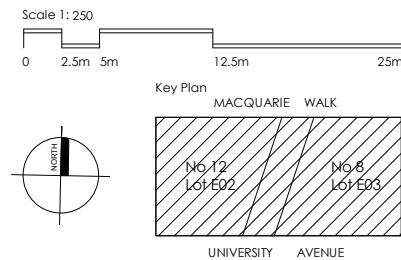
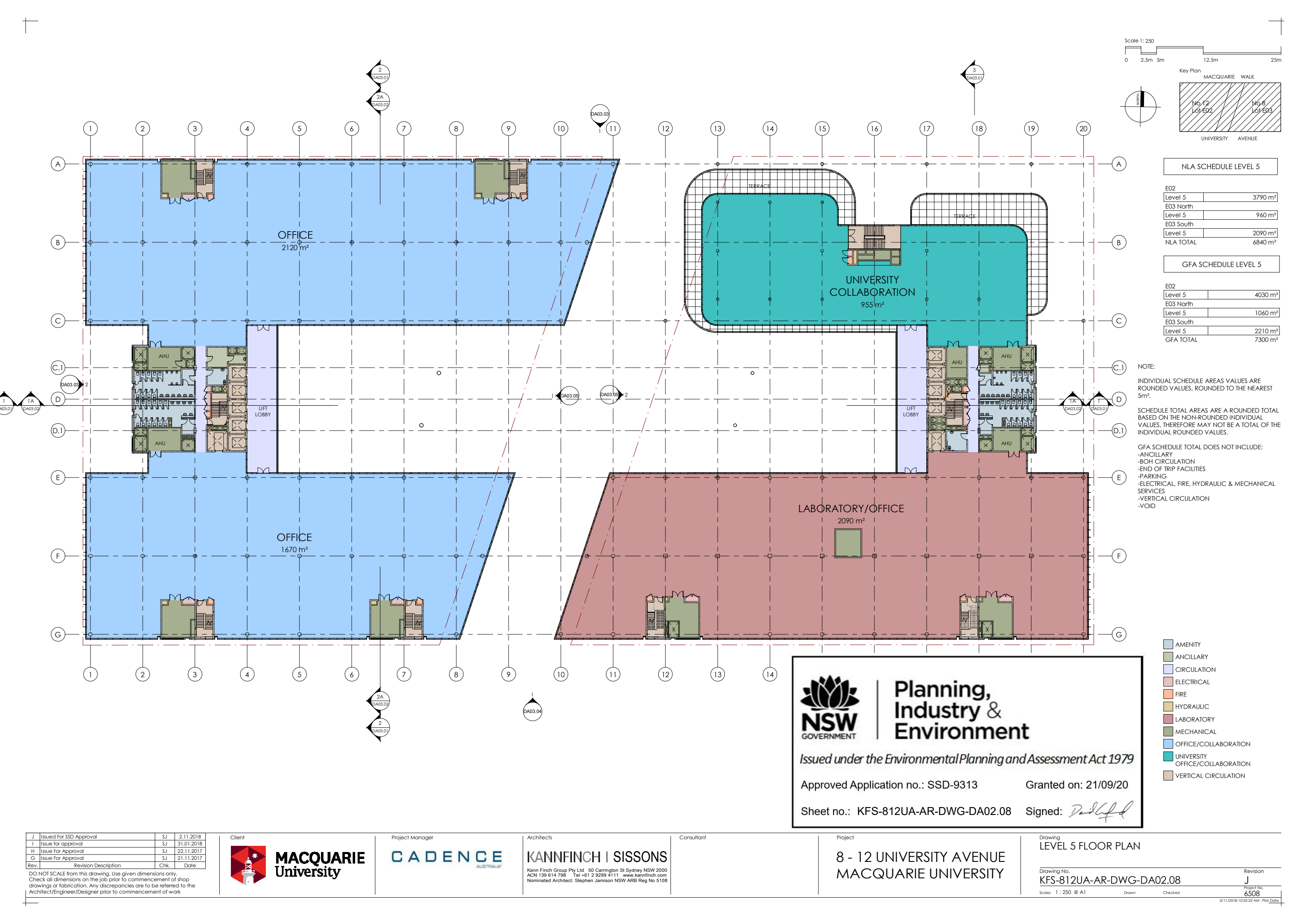
Revision

J

Project No.

6508

2/11/2018 10:56:52 AM : Plot Date



NLA SCHEDULE LEVEL 5

E02	
Level 5	3790 m²
E03 North	
Level 5	960 m²
E03 South	
Level 5	2090 m²
NLA TOTAL	6840 m²

GFA SCHEDULE LEVEL 5

E02	
Level 5	4030 m²
E03 North	
Level 5	1060 m²
E03 South	
Level 5	2210 m²
GFA TOTAL	7300 m²

NOTE:

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- VERTICAL CIRCULATION
- VOID

- AMENITY
- ANCILLARY
- CIRCULATION
- ELECTRICAL
- FIRE
- HYDRAULIC
- LABORATORY
- MECHANICAL
- OFFICE/COLLABORATION
- UNIVERSITY OFFICE/COLLABORATION
- VERTICAL CIRCULATION



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Sheet no.: KFS-812UA-AR-DWG-DA02.08 Signed: *David Liff*

J	Issued For SSD Approval	SJ	2.11.2018
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G	Issue For Approval	SJ	21.11.2017
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8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing
LEVEL 5 FLOOR PLAN

Drawing No.
KFS-812UA-AR-DWG-DA02.08

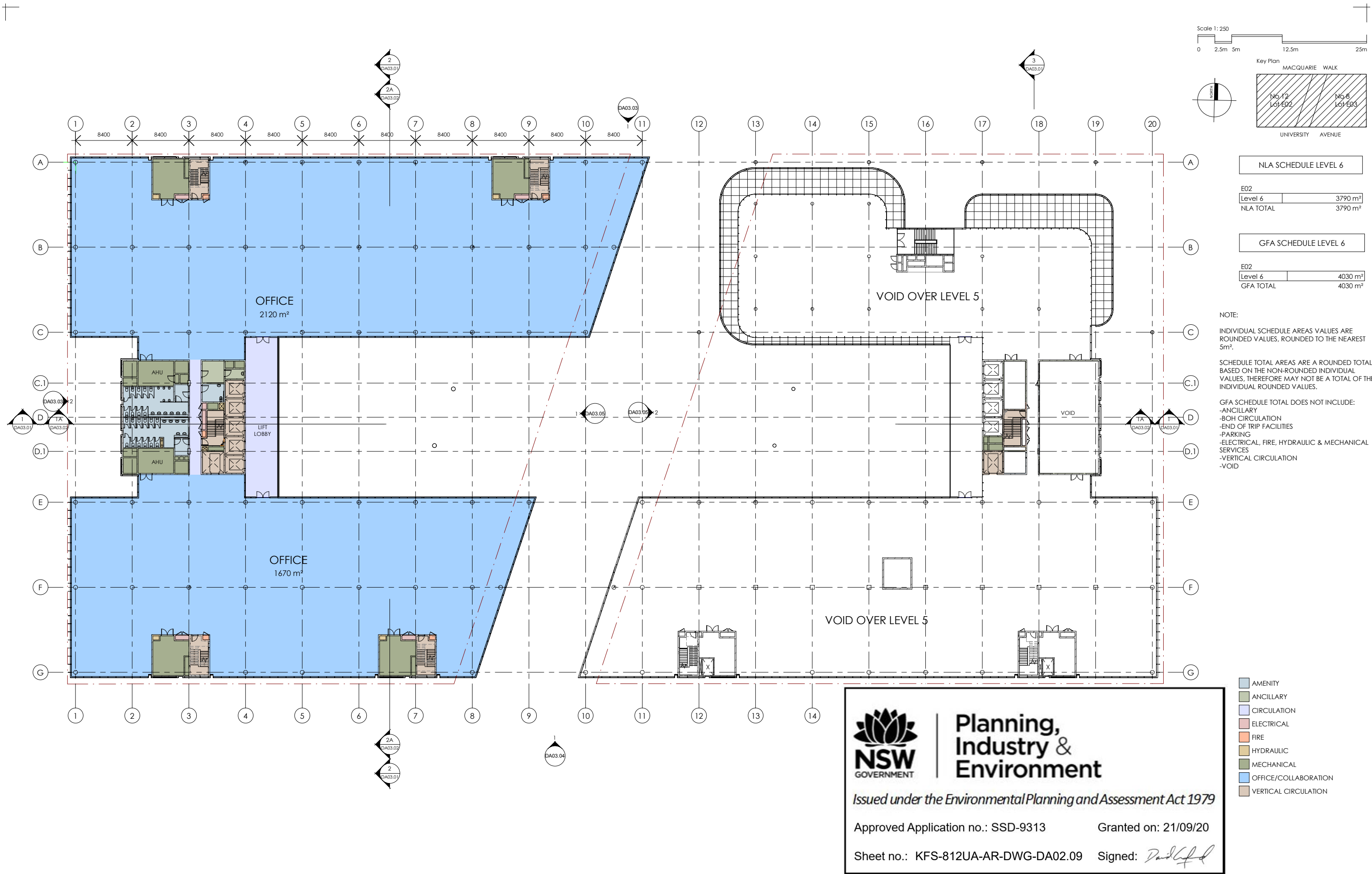
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Drawn

Checked

Revision
J
6508

2/11/2018 10:25:22 AM : Plot Date



J	Issued For SSD Approval	SJ	2.11.2018
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Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing
LEVEL 6 FLOOR PLAN

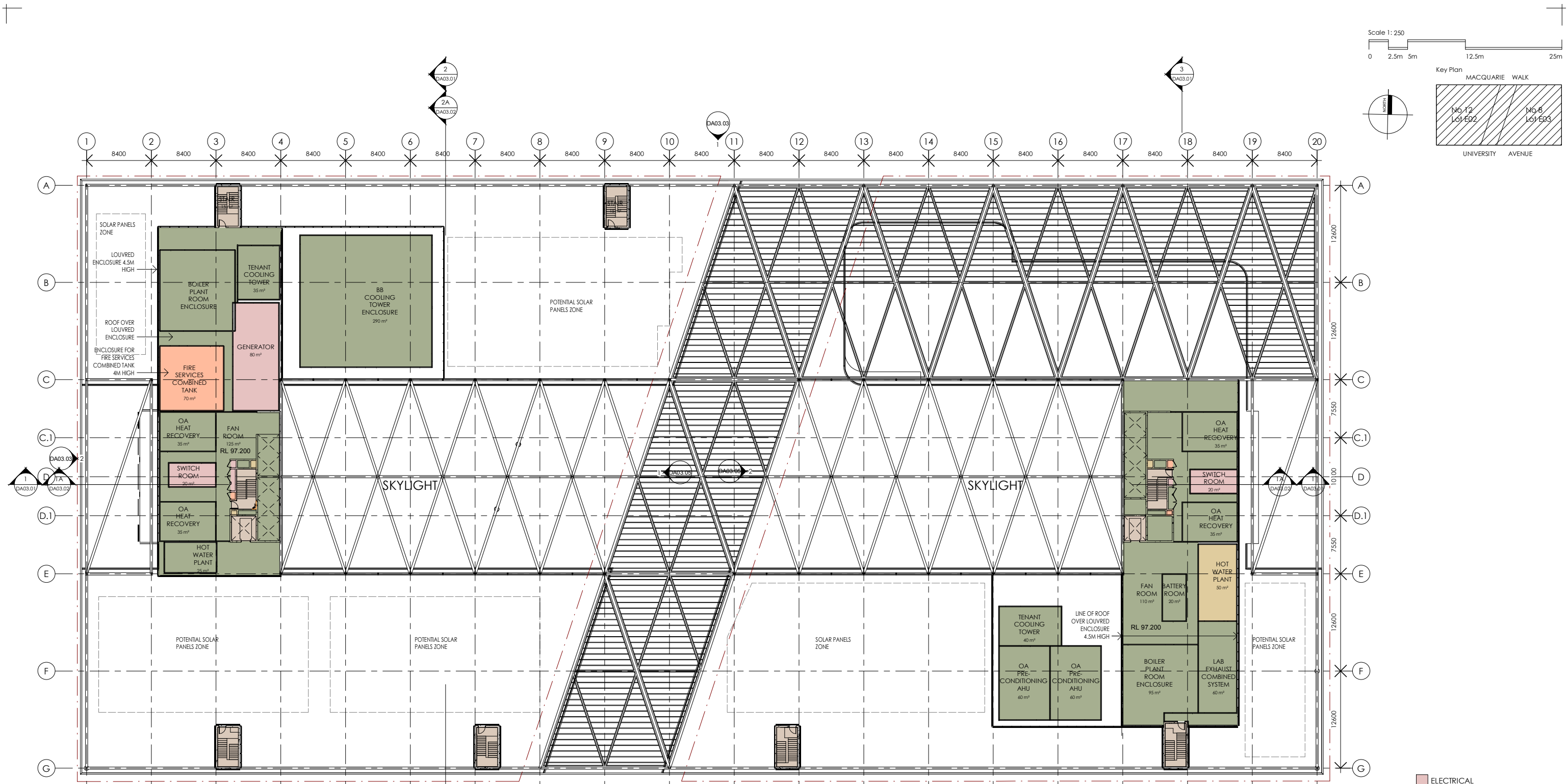
Drawing No.
KFS-812UA-AR-DWG-DA02.09

Scales 1 : 250 @ A1

Drawn
Checked

Revision
J
6508

2/11/2018 10:56:56 AM : Plot Date



- ELECTRICAL
- FIRE
- HYDRAULIC
- MECHANICAL
- VERTICAL CIRCULATION



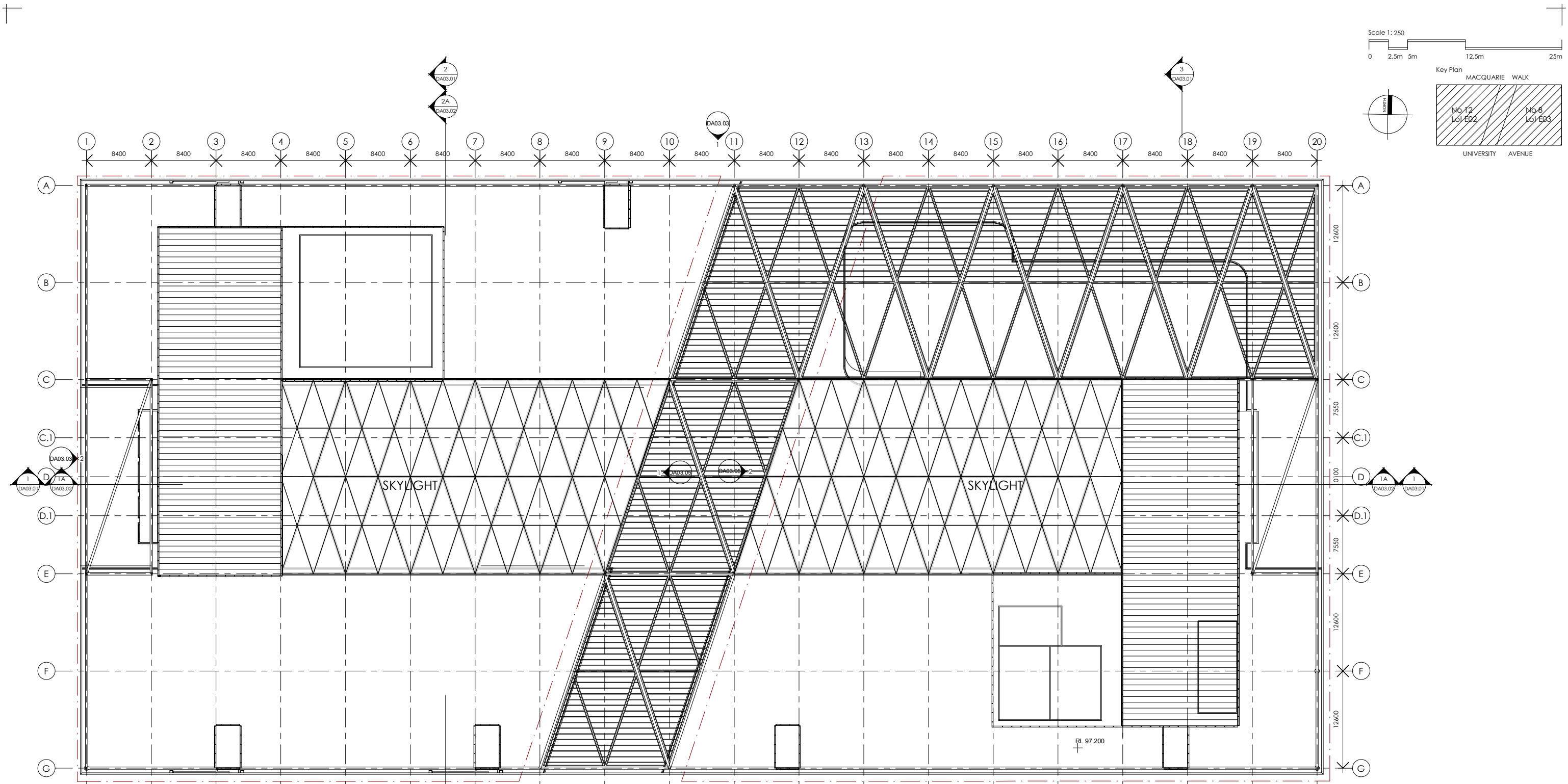
Planning,
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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA02.10 Signed: *David Gifford*

<table><tr><td>J</td><td>Issued For SSD Approval</td><td>SJ</td><td>2.11.2018</td></tr><tr><td>I</td><td>Issue for approval</td><td>SJ</td><td>31.01.2018</td></tr><tr><td>H</td><td>Issue For Approval</td><td>SJ</td><td>22.11.2017</td></tr><tr><td>G</td><td>Issue For Approval</td><td>SJ</td><td>21.11.2017</td></tr><tr><td>Rev.</td><td>Revision Description</td><td>Chk.</td><td>Date</td></tr></table> DO NOT SCALE from this drawing. Use given dimensions only. Check all dimensions on the job prior to commencement of shop drawings or fabrication. Any discrepancies are to be referred to the Architect/Engineer/Designer prior to commencement of work				J	Issued For SSD Approval	SJ	2.11.2018	I	Issue for approval	SJ	31.01.2018	H	Issue For Approval	SJ	22.11.2017	G	Issue For Approval	SJ	21.11.2017	Rev.	Revision Description	Chk.	Date	Client  MACQUARIE University		Project Manager  CADENCE AUSTRALIA		Architects KANNFINCH SISSONS Kann Finch Group Pty Ltd - 50 Carrington St Sydney NSW 2000 ACN 139 614 798 Tel +61 2 9299 4111 www.kannfinch.com Nominated Architect: Stephen Jamison NSW ARB Reg No 5108		Consultant		Project 8 - 12 UNIVERSITY AVENUE MACQUARIE UNIVERSITY		Drawing LEVEL 7 / PLANT ROOM FLOOR PLAN <table><tr><td>Drawing No.</td><td>Revision</td></tr><tr><td>KFS-812UA-AR-DWG-DA02.10</td><td>J</td></tr><tr><td>Project No.</td><td></td></tr><tr><td>6508</td><td></td></tr></table> Scales 1 : 250 @ A1 Drawn SG Checked		Drawing No.	Revision	KFS-812UA-AR-DWG-DA02.10	J	Project No.		6508	
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**Planning,
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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA02.11 Signed: *David Luff*

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AUSTRALIA

Architects

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Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

LEVEL 8 / ROOF PLAN

Drawing No.

KFS-812UA-AR-DWG-DA02.11

Scales 1 : 250 @ A1

Drawn

Checked

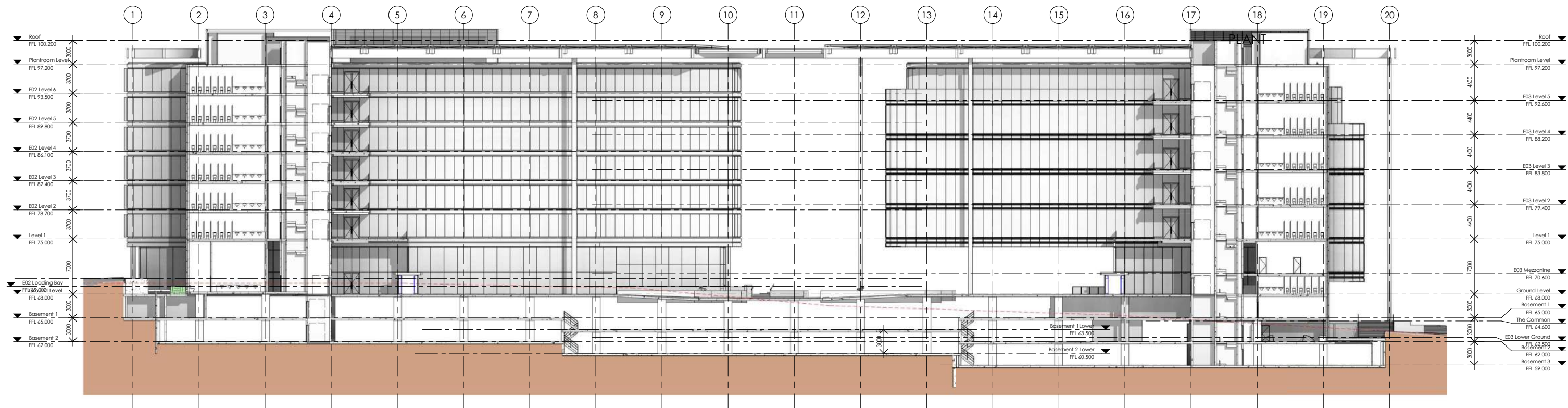
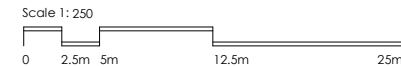
Revision

J

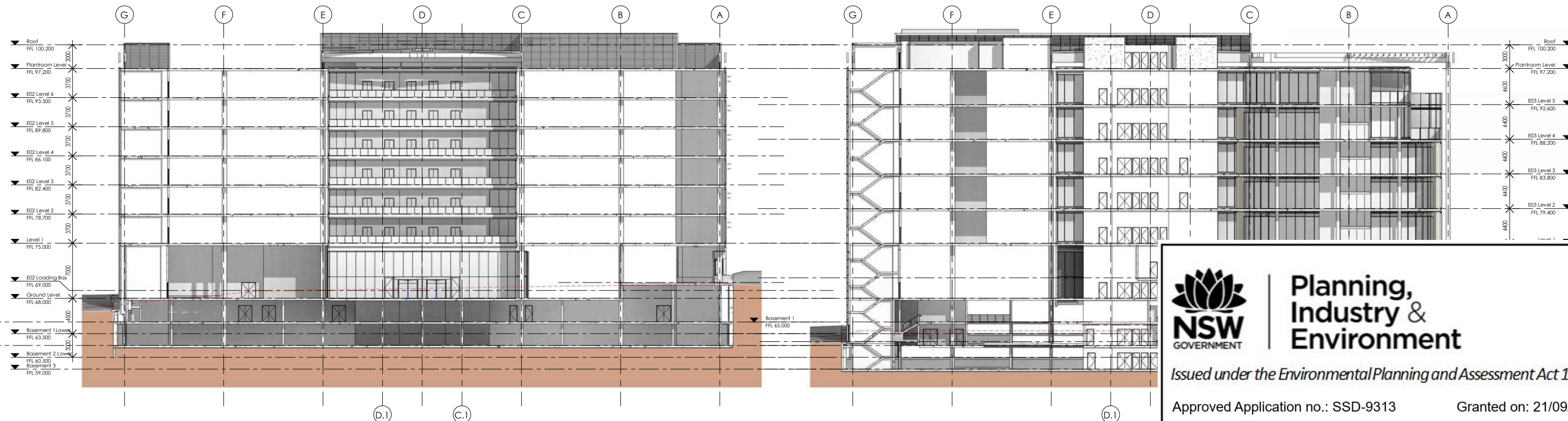
Project No.

6508

2/11/2018 10:56:59 AM - Plot Date



1 EAST WEST SECTION



2 NORTH SOUTH SECTION E02

3 NORTH SOUTH SECTION E03



Planning,
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Issued under the Environmental Planning and Assessment Act 1979

Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA03.01

Signed: *David Liff*

J	Issued For SSD Approval	SJ	2.11.2018
I	Issue for approval	SJ	31.01.2018
H	Issue For Approval	SJ	22.11.2017
G	Issue For Approval	SJ	21.11.2017
Rev.	Revision Description	Chk.	Date

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8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

SECTIONS

Drawing No.

KFS-812UA-AR-DWG-DA03.01

Scales 1: 250 @ A1

Drawn SG

Checked

Revision

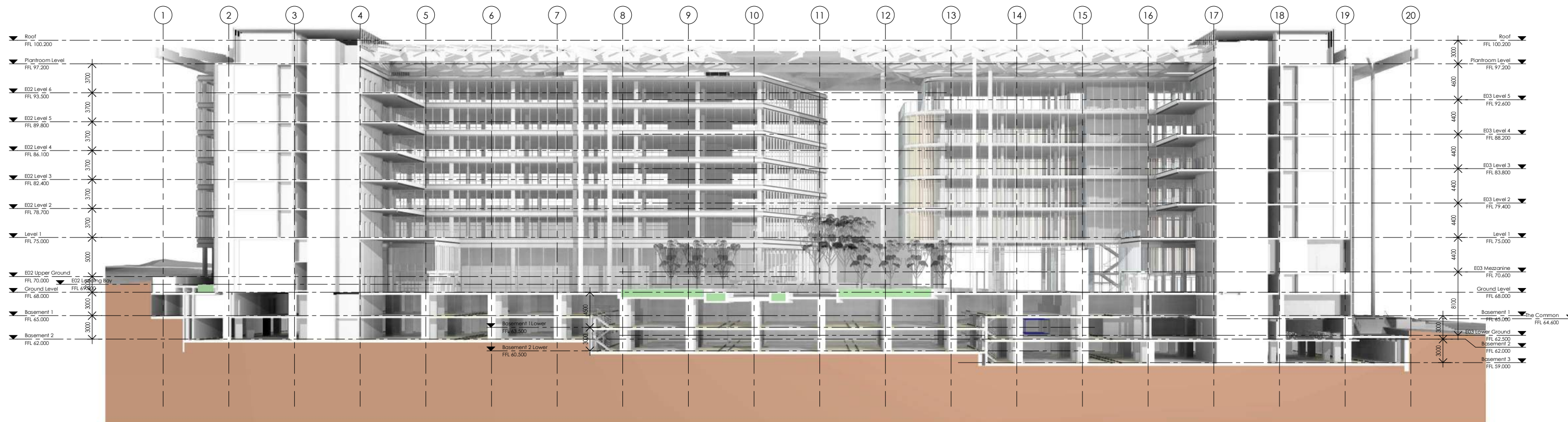
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Project No.

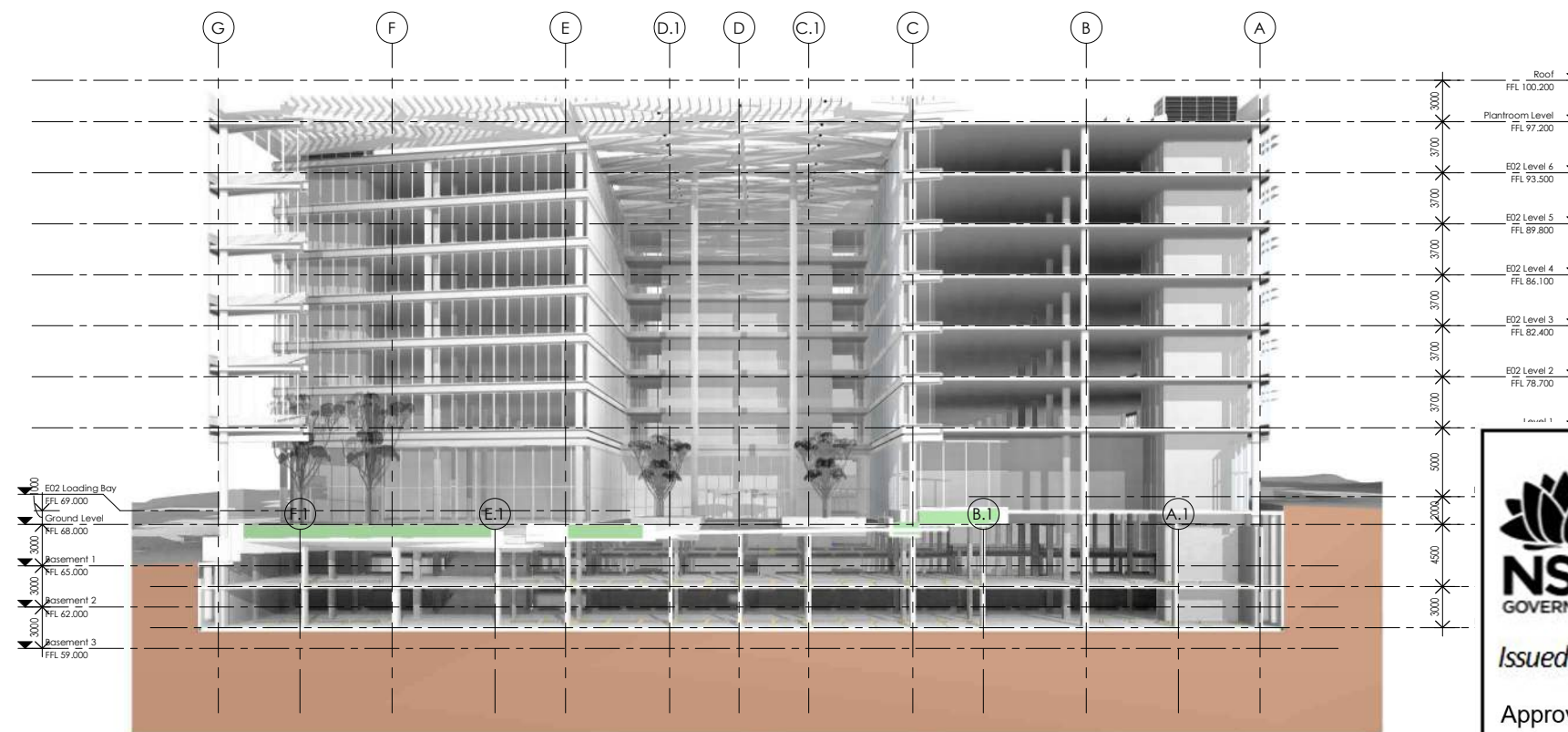
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2/11/2018 10:27:13 AM: Plot Date

Scale 1: 250
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1 EAST WEST PERSPECTIVE SECTION



2 NORTH SOUTH PERSPECTIVE SECTION



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Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA03.02

Signed: *David Lloyd*

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Rev.	Revision Description	Chk.	Date

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Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

PERSPECTIVE SECTIONS

Drawing No.

KFS-812UA-AR-DWG-DA03.02

Scales 1: 250 @ A1

Drawn

Checked

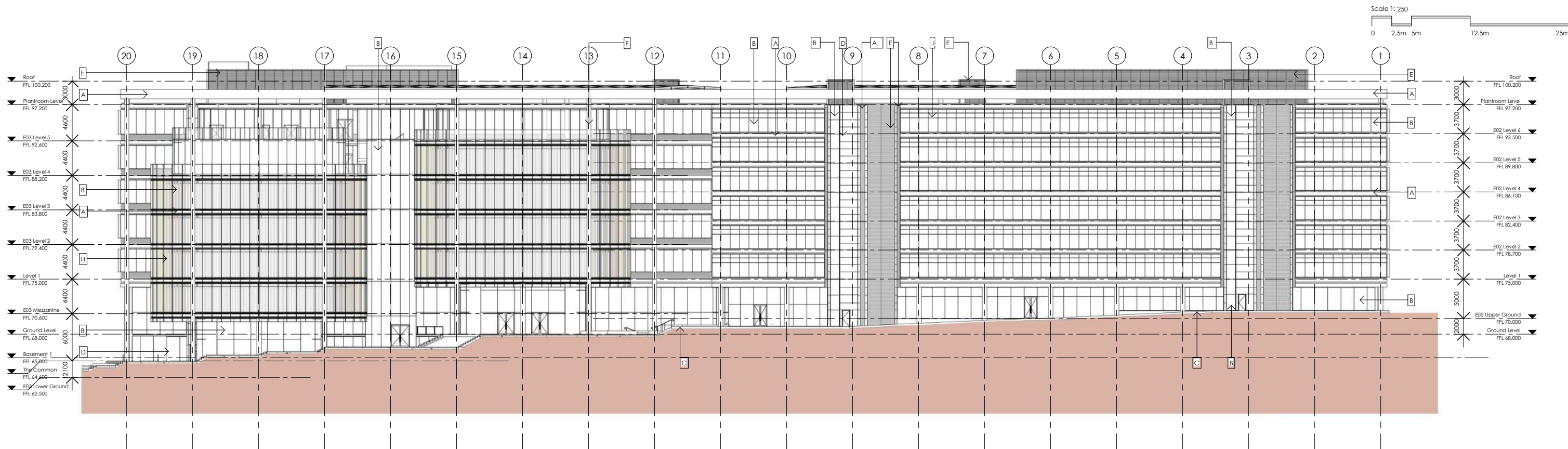
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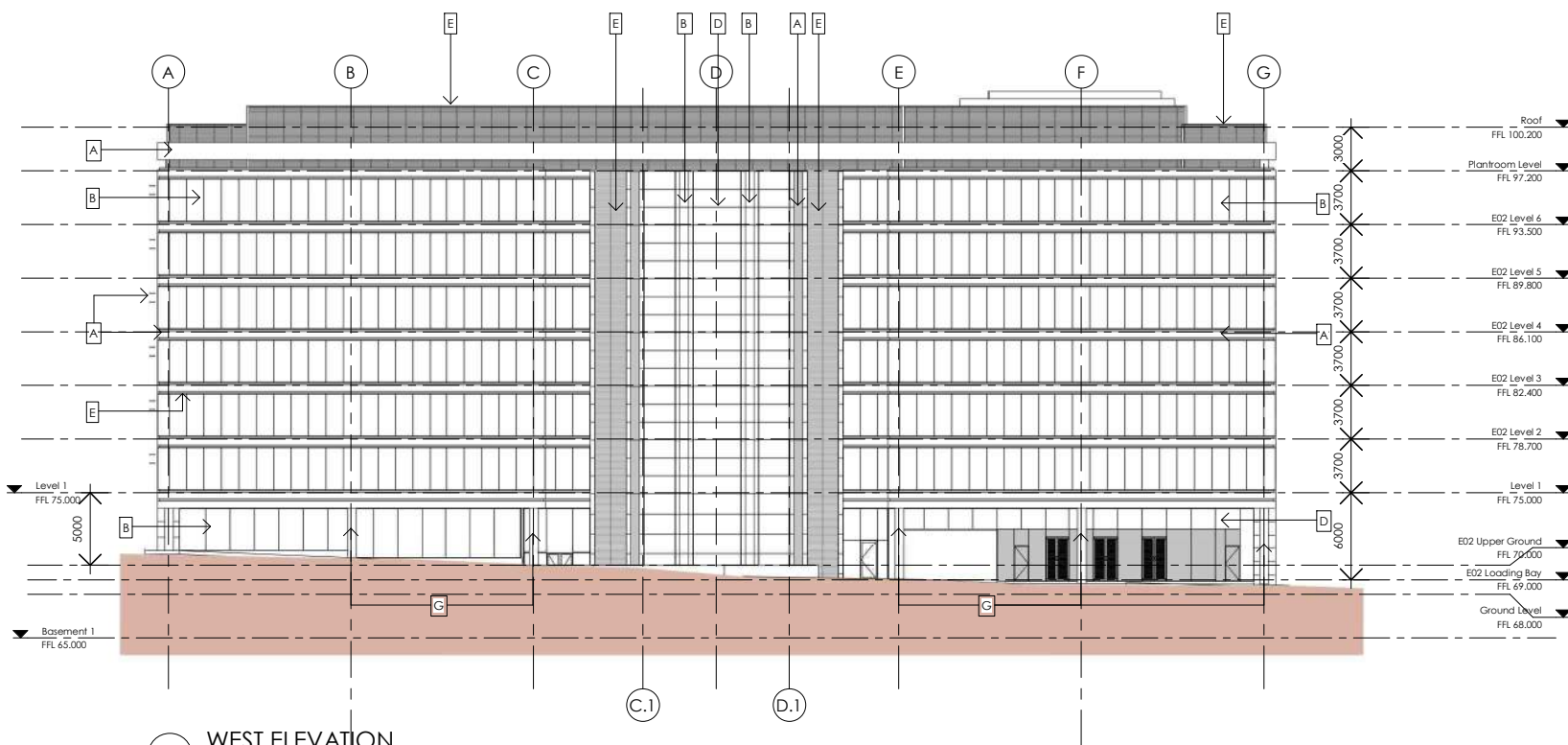
Project No.

6508

2/11/2018 10:28:55 AM - Plot Date



1 NORTH ELEVATION



2 WEST ELEVATION

LEGEND

- A PRE-FINISHED COMPOSITE ALUMINIUM PANEL
- B PRE-FINISHED ALUMINIUM FRAMED GLASS CURTAIN WALL



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Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA03.03

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Project

**8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY**

Drawing

NORTH AND WEST ELEVATIONS

Drawing No.

KFS-812UA-AR-DWG-DA03.03

Scales 1 : 250 @ A1

Drawn

Checked

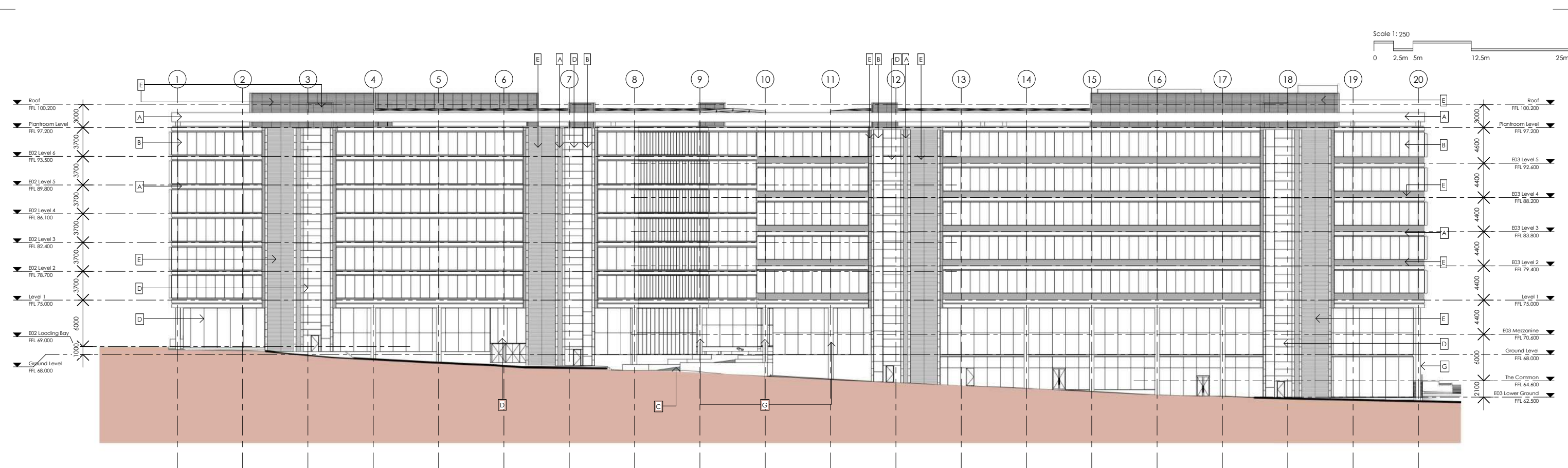
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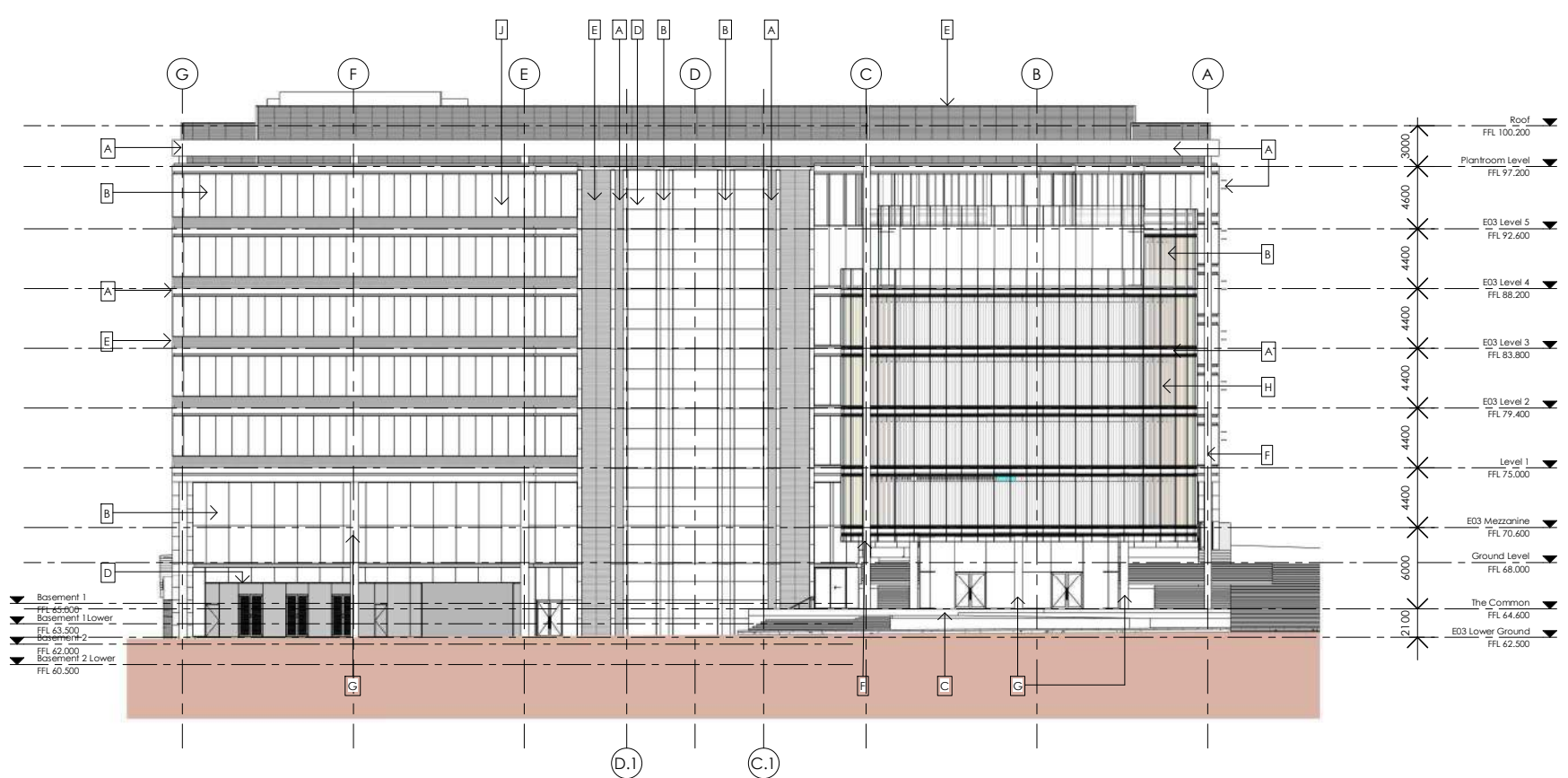
Project No.

6508

2/11/2018 10:30:25 AM - Plot Date



1 SOUTH ELEVATION



2 EAST ELEVATION

LEGEND

- A PRE-FINISHED COMPOSITE ALUMINIUM PANEL
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J	Issued For SSD Approval	SJ	2.11.2018
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H	Issue For Approval	SJ	22.11.2017
G	Issue For Approval	SJ	21.11.2017

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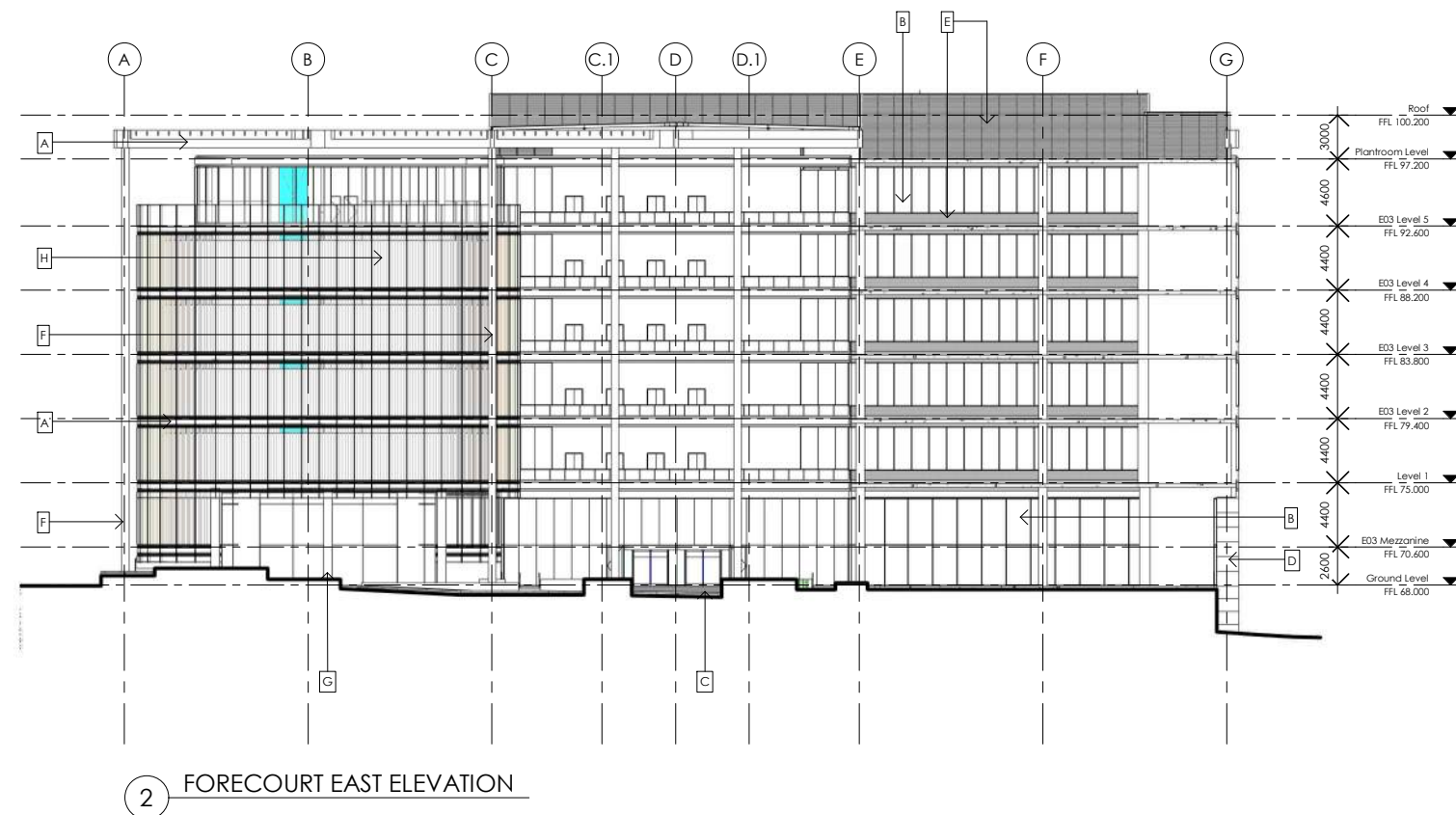
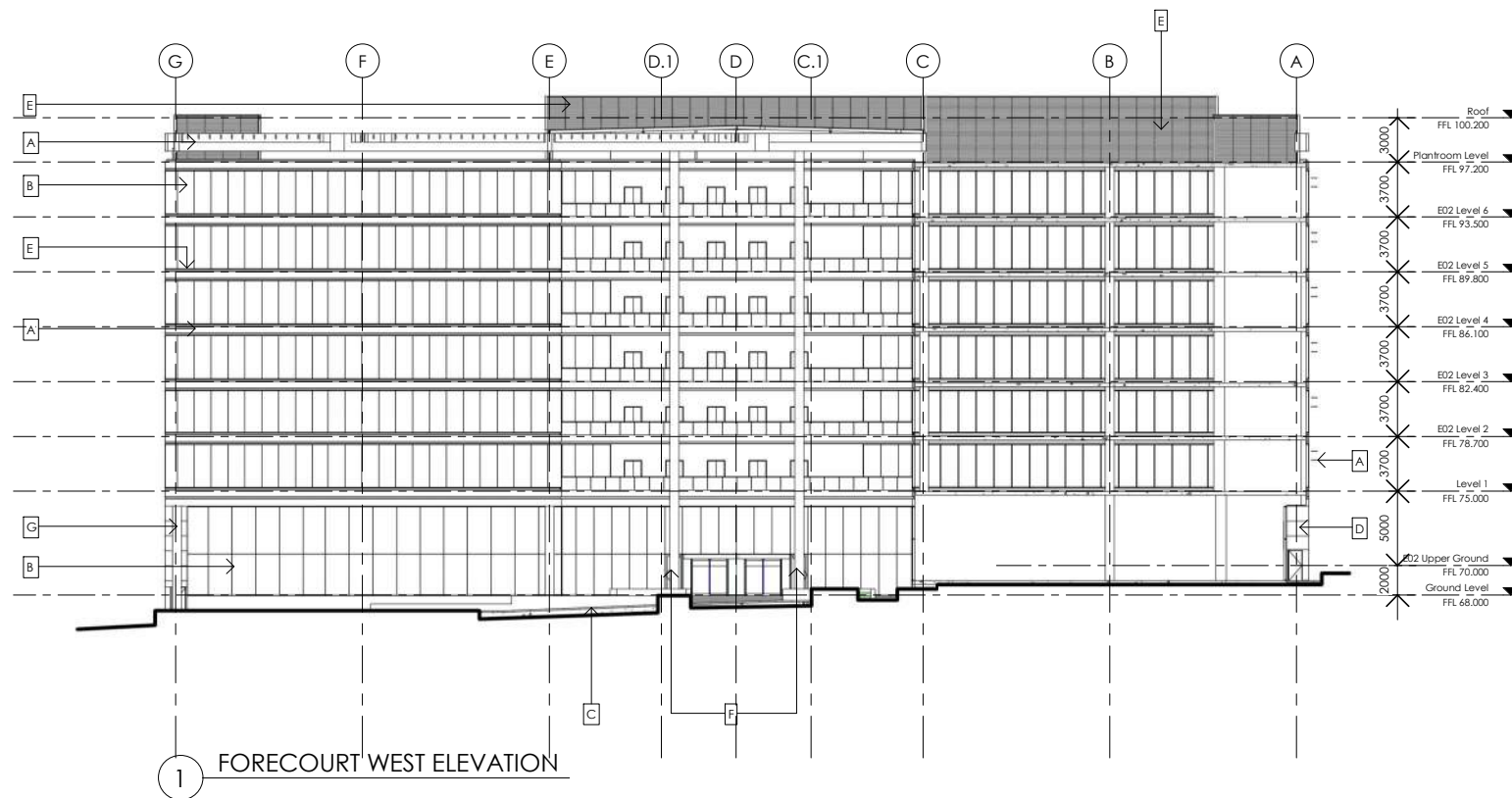
8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing
SOUTH AND EAST ELEVATIONS

Drawing No.
KFS-812UA-AR-DWG-DA03.04

Scales 1 : 250 @ A1 Drawn Checked

Revision
J
6508
2/11/2018 10:31:53 AM: Plot Date



LEGEND

- A PRE-FINISHED COMPOSITE ALUMINIUM PANEL
B PRE-FINISHED ALUMINIUM FRAMED GLASS CURTAIN WALL



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MACQUARIE UNIVERSITY

Drawing

EAST AND WEST FORECOURT ELEVATIONS

Drawing No.

KFS-812UA-AR-DWG-DA03.05

Scales 1 : 250 @ A1

Drawn

Checked

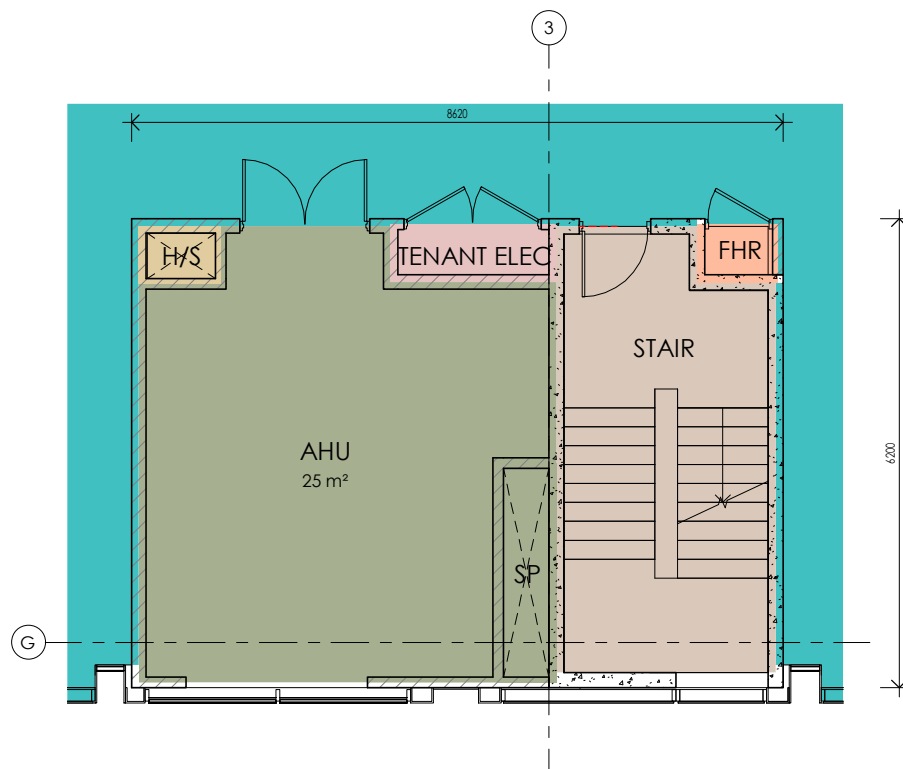
Revision

J

Project No.

6508

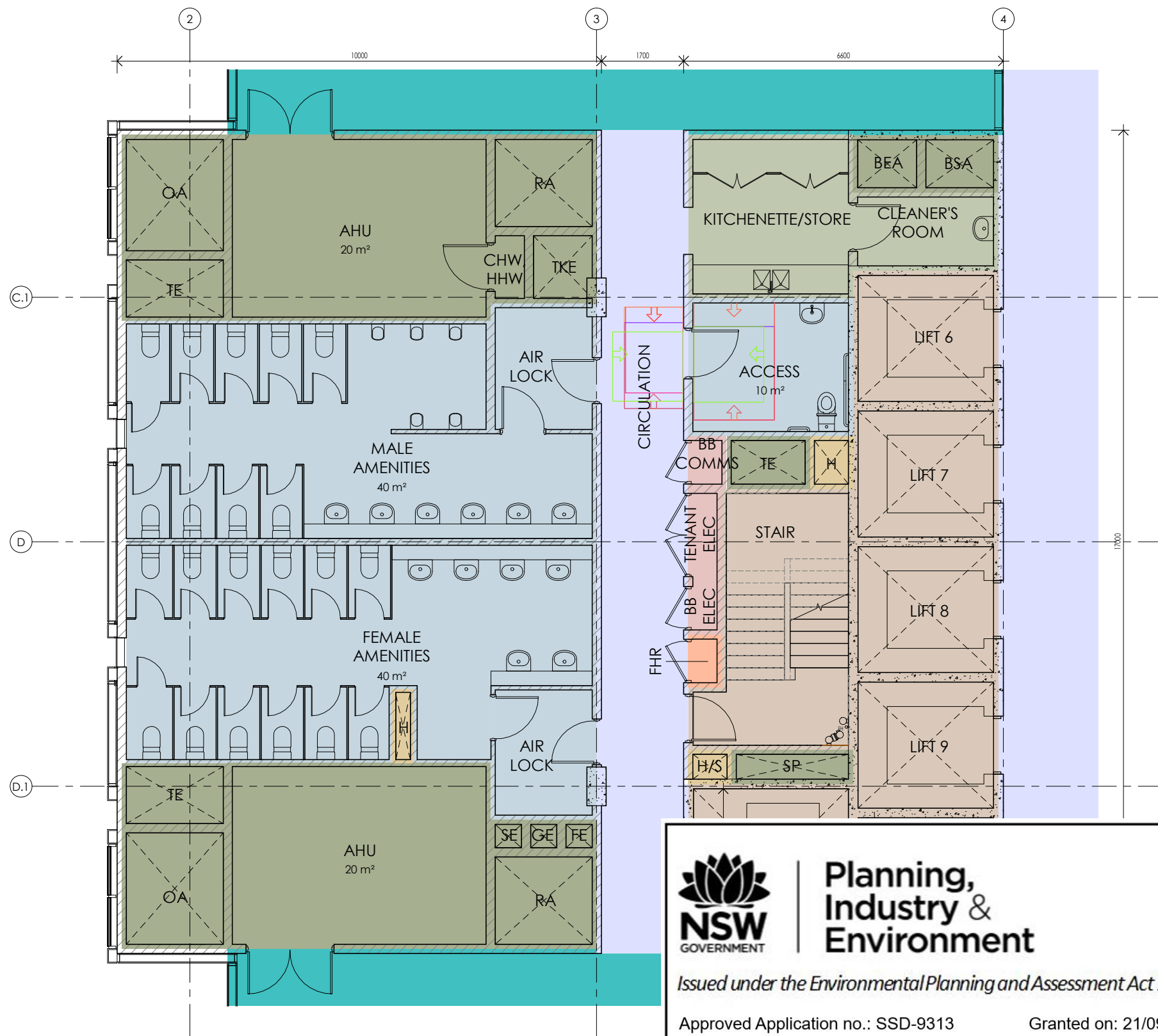
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1 TYPICAL STAIR POD BUILDING 12

ABBREVIATIONS

AHU	AIR HANDLING UNIT
BB	BASE BUILDING
BEA	BASEMENT EXHAUST AIR
BSA	BASEMENT SUPPLY AIR
CHW, HHW	CHILLED/HOT WATER RISER
COMMS	COMMUNICATIONS CUPBOARD
ELEC	ELECTRICAL CUPBOARD
FE	FIRE PUMP EXHAUST
FHR	FIRE HOSE REEL
GE	GARBAGE ROOM EXHAUST
H	HYDRAULIC RISER
H/S	SYPHONIC DUCT/HYDRAULIC RISER
MDF	MAIN DISTRIBUTION FRAME
OA	OUTSIDE AIR RISER
RA	RELIEF AIR RISER
SE	STORE ROOM EXHAUST
SP	STAIR PRESSURISATION RISER
TE	TOILET EXHAUST RISER
TKE	TENANT KITCHEN EXHAUST RISER
TOA	TENANT OUTSIDE RISER



2 TYPICAL LIFT CORE BUILDING 12



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Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA11.12

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Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

STAIR & LIFT CORE (BUILDING 12) PLANS

Drawing No.

KFS-812UA-AR-DWG-DA11.12

Scales 1: 50 @ A1

Drawn

Checked

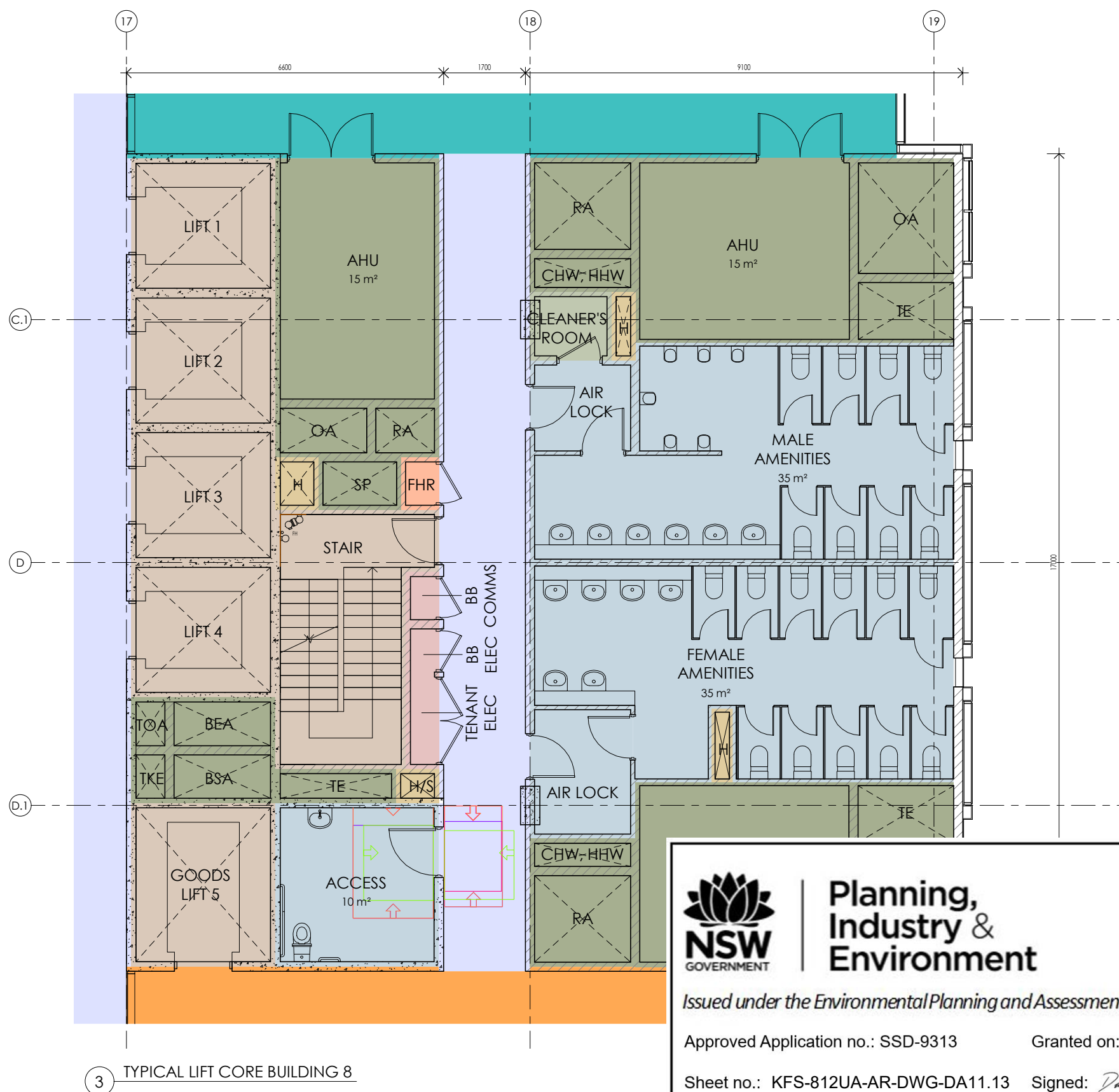
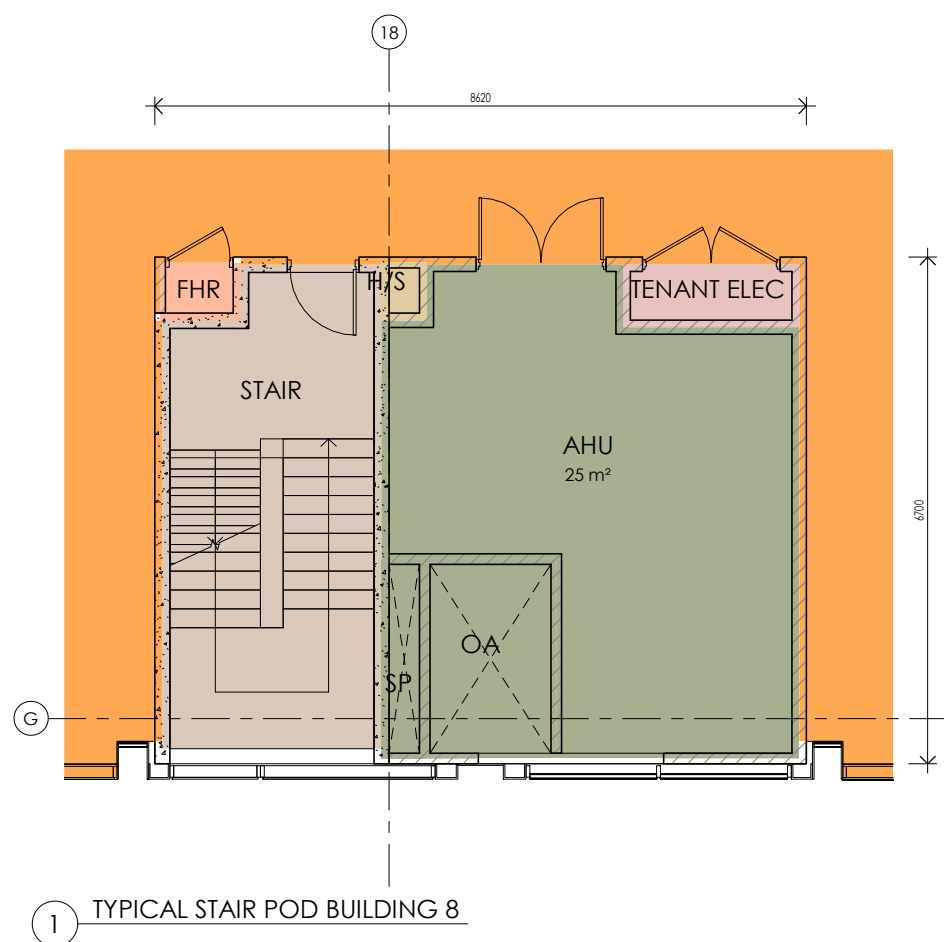
Revision

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Project No.

6508

2/11/2018 10:37:42 AM - Plot Date



ABBREVIATIONS

AHU	AIR HANDLING UNIT
BB	BASE BUILDING
BEA	BASEMENT EXHAUST AIR
BSA	BASEMENT SUPPLY AIR
CHW, HHW	CHILLED/HOT WATER RISER
COMMS	COMMUNICATIONS CUPBOARD
ELEC	ELECTRICAL CUPBOARD
FE	FIRE PUMP EXHAUST
FHR	FIRE HOSE REEL
GE	GARBAGE ROOM EXHAUST
H	HYDRAULIC RISER
H/S	SYPHONIC DUCT/HYDRAULIC RISER
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SE	STORE ROOM EXHAUST
SP	STAIR PRESSURISATION RISER
TE	TOILET EXHAUST RISER
TKE	TENANT KITCHEN EXHAUST RISER
TOA	TENANT OUTSIDE RISER



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Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: KFS-812UA-AR-DWG-DA11.13 Signed: *David Liff*

G	Issued For SSD Approval	SJ	2.11.2018
F	Issue for approval	SJ	31.01.2018
E	Issue For Approval	SJ	22.11.2017
D	Issue For Approval	SJ	21.11.2017
Rev.	Revision Description	Chk.	Date

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Consultant

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

STAIR & LIFT CORE (BUILDING 8) PLANS

Drawing No.

KFS-812UA-AR-DWG-DA11.13

Scales 1: 50 @ A1

Drawn

Checked

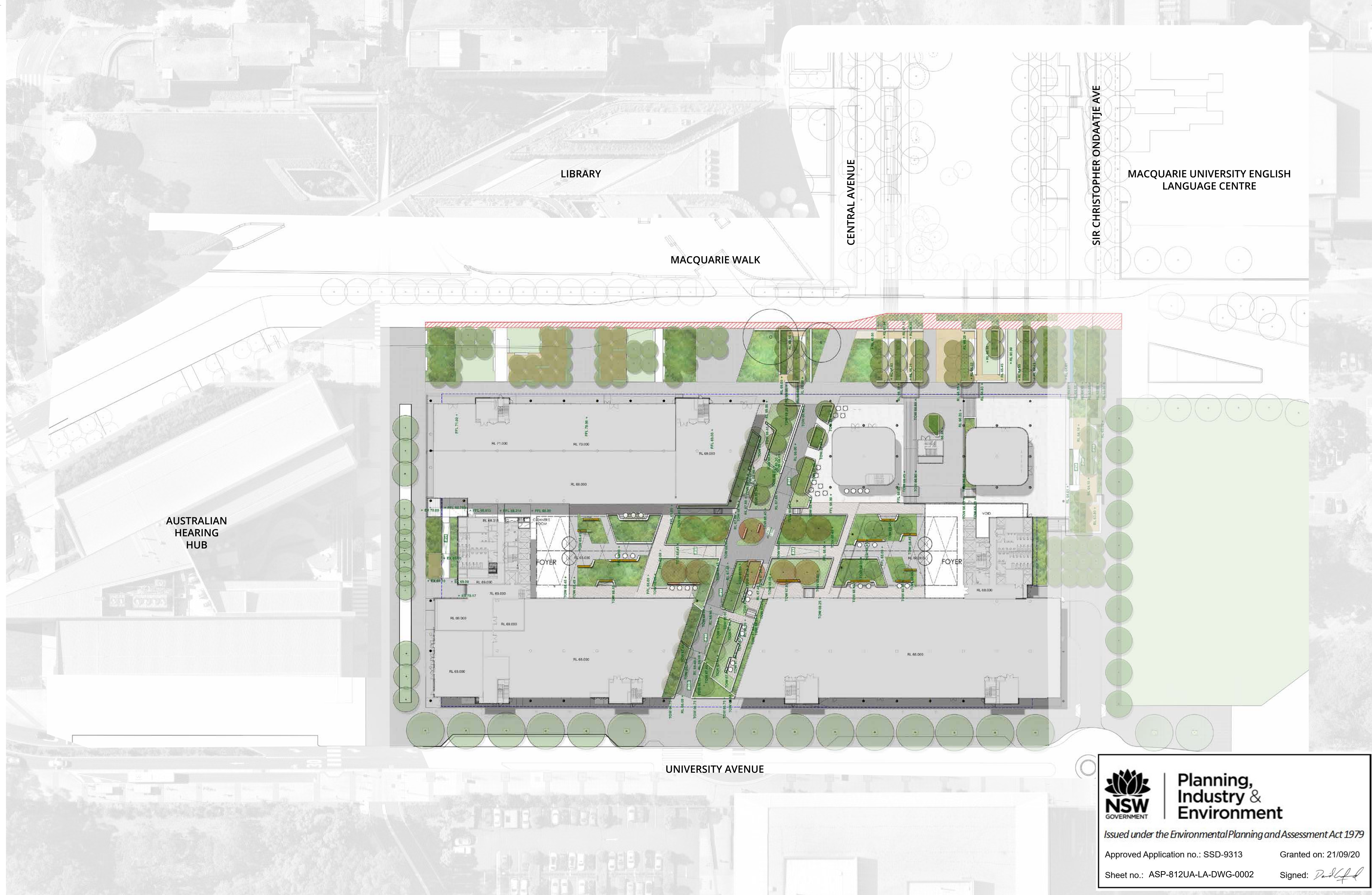
Revision

G

Project No.

6508

2/11/2018 10:37:46 AM: Plot Date



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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: ASP-812UA-LA-DWG-0002 Signed: *Paul Liff*

Rev.	Revision Description	Chk.	Date
A	DRAFT ONLY		17.02.2017
B	DRAFT ONLY		09.05.2017
C	FOR SUBMISSION		28.11.2017
D	FOR SUBMISSION		05.02.2018

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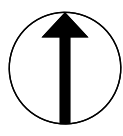
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aspectsydney@aspect.net.au

Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY



Drawing

LANDSCAPE CONTEXT PLAN

Drawing No.

ASP-812UA-LA-DWG-0002

Scales

1:500 at A1 Drawn TA/DC Checked NB/KL

Revision

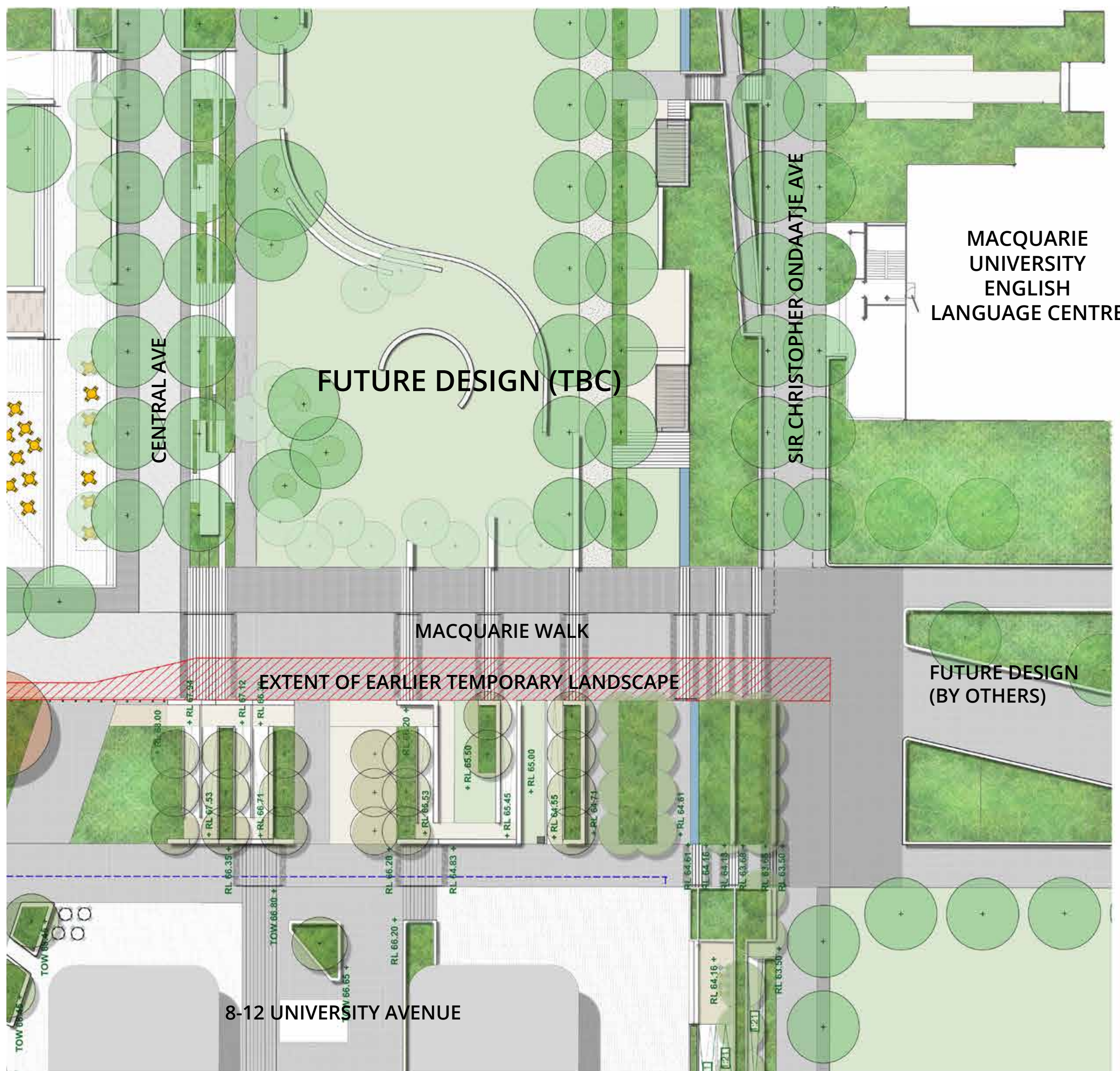
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Project No.

S16022



Detail Plan 01 - Interface with Temporary Landscape
Scale 1:300



Detail Plan 02 - Interface with The Common Scheme
Scale 1:300



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Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: ASP-812UA-LA-DWG-0003

Signed: *Paul Liff*

Rev.	Revision Description	Chk.	Date
A	DRAFT ONLY		17.02.2017
B	DRAFT ONLY		09.05.2017
C	FOR SUBMISSION		28.11.2017
D	FOR SUBMISSION		05.02.2018

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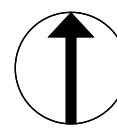
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Drawing

TEMPORARY LANDSCAPE PLAN

Drawing No.

ASP-812UA-LA-DWG-0003

Revision

D

Scales

1:300

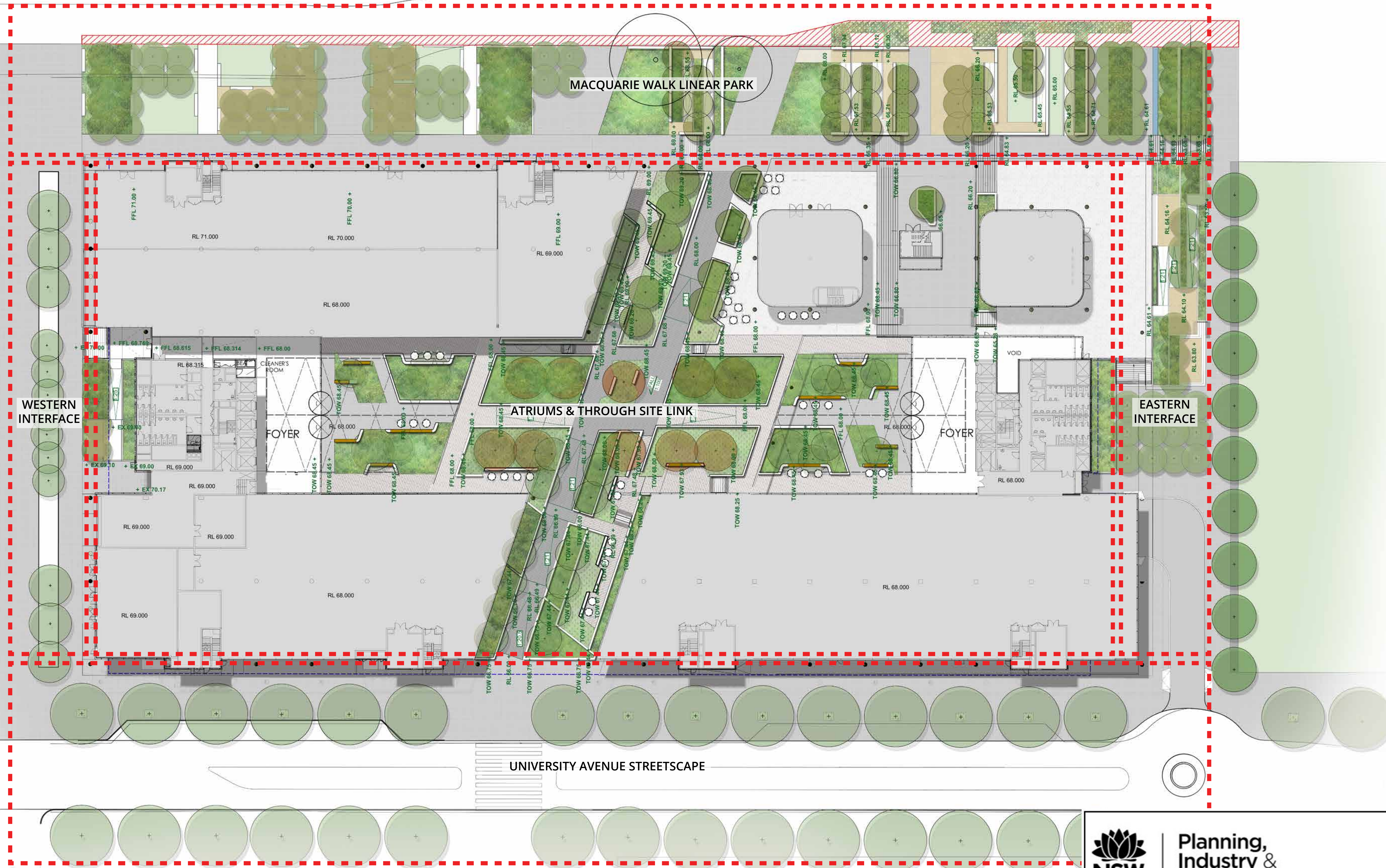
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Drawn TA/DC

Checked NB/KL

Project No.

S16022



**Planning,
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Issued under the Environmental Planning and Assessment Act 1979

Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: ASP-812UA-LA-DWG-0004 Signed: *David Lloyd*

Rev.	Revision Description	Chk.	Date
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C	FOR SUBMISSION		28.11.2017
D	FOR SUBMISSION		05.02.2018

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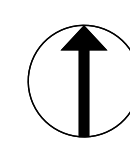
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Drawing

LANDSCAPE SITE PLAN

Drawing No. **ASP-812UA-LA-DWG-0004**

Scales **1:300** at A1 Drawn **TA|DC** Checked **NB|KL**

Revision **D**

Project No. **S16022**



Planning,
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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: ASP-812UA-LA-DWG-0005 Signed: *David Gifford*

Legend

- 1 Interface with existing level of University Avenue
- 2 Accessible 1:21 ramped connection to central atrium spaces
- 3 Atrium lobby spaces with generous planted areas and tree plantings
- 4 Stair and ramp connections in response to ground floor building levels
- 5 Potential for loose furniture spillout from ground floor tenants
- 6 Tree plantings and textural mass planting along through site link create a human scale experience on the ground plane
- 7 Alignment of stair connections informed by The Common concept plan and existing site topography

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8 - 12 UNIVERSITY AVENUE
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Drawing

PUBLIC CONNECTOR & ATRIUM PLAN

Drawing No. **ASP-812UA-LA-DWG-0005**

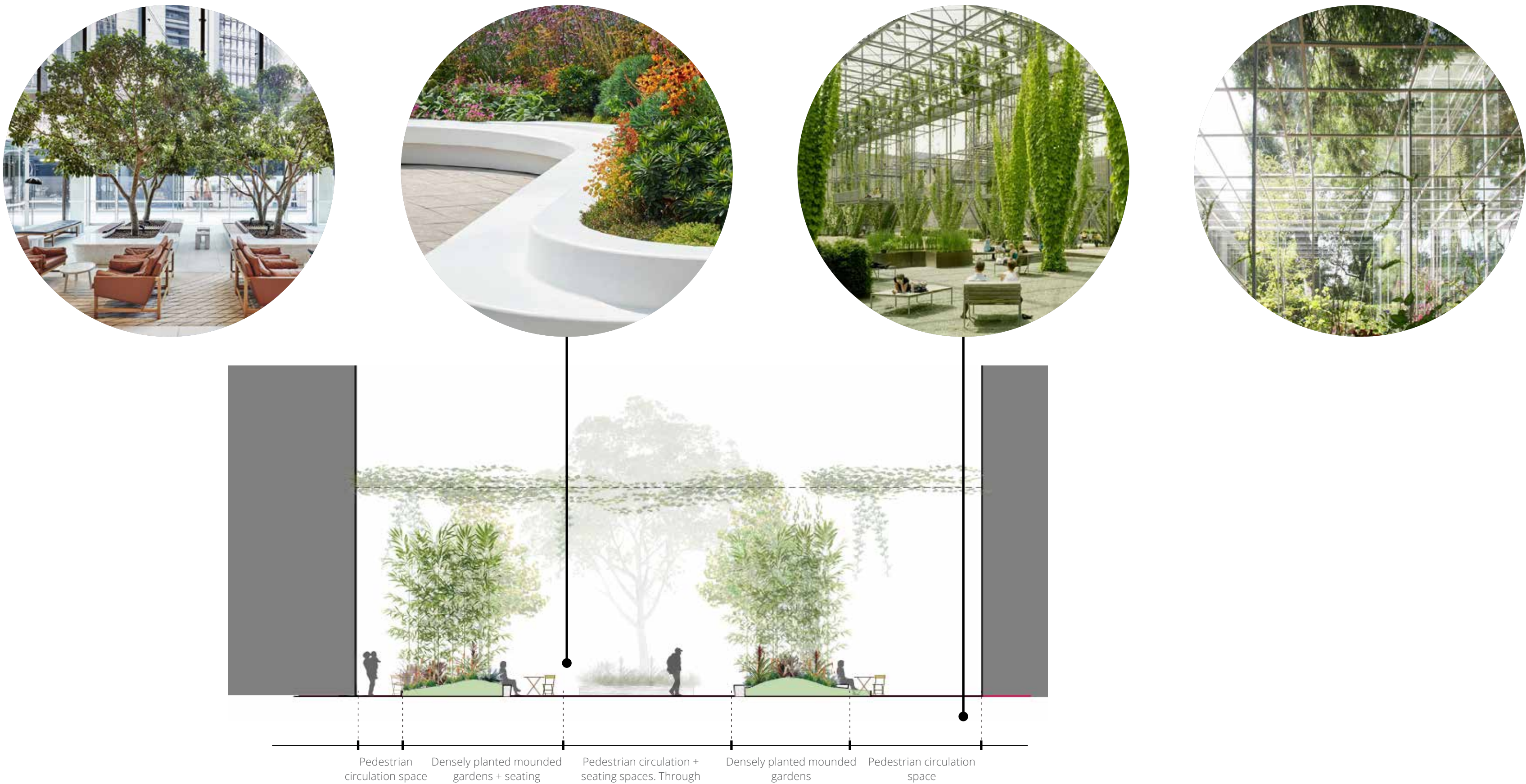
Revision **D**

Scales 1:200 at A1 Drawn TA/DC Checked NB/KL

Project No. **S16022**



Section 01 - Through Site Link
Scale 1:200



Section 02 - Atriums
Scale 1:100



Planning,
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Approved Application no.: SSD-9313

Granted on: 21/09/20

Sheet no.: ASP-812UA-LA-DWG-0006

Signed: 

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D	FOR SUBMISSION		05.02.2018

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8 - 12 UNIVERSITY AVENUE
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Drawing

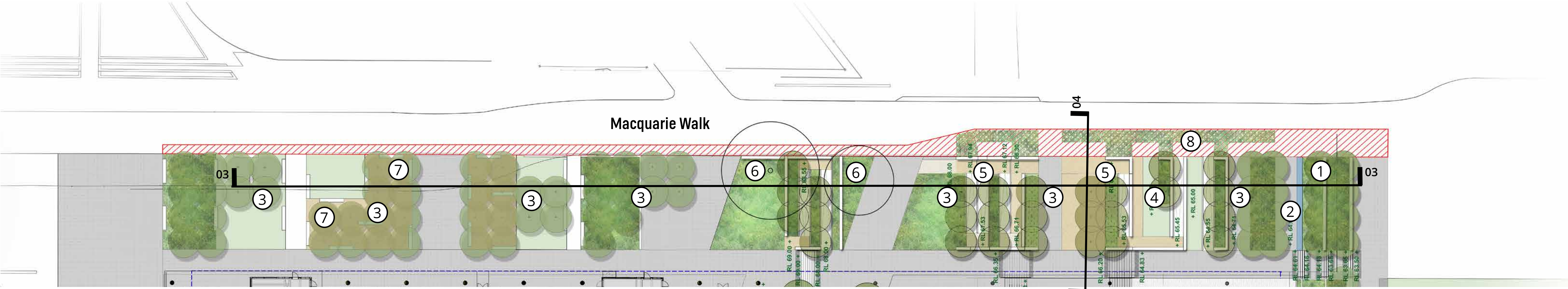
PUBLIC CONNECTOR & ATRIUM SECTION

Drawing No. ASP-812UA-LA-DWG-0006

Scales VARIES at A1 Drawn TA|DC Checked NB|KL

Revision D

Project No. S16022



Macquarie Walk Linear Park
Scale 1:300



Legend

- 1 Inhabitable seating edges and planted terraces to Sir Christopher Ondaatje Avenue
- 2 Linear water feature in alignment with The Common concept scheme
- 3 Groves of native and exotic tree species provide shade and green outlook from 8 -12 University Avenue
- 4 Inhabitable turf terraces provide open space for recreation and group activities
- 5 Seating stairs provide areas beneath shade for respite and outlook
- 6 Existing *Eucalyptus* aligned to Library picture window to be retained and protected
- 7 Areas of turf, decomposed sandstone and paving provide inhabitable pocket parks adjacent to building entires
- 8 Temporary landscape zone to interface with existing levels of Macquarie Walk



Terraced landscape with 1:21 pedestrian ramps Mixed grove planting within turf Terraced landscape with 1:21 pedestrian ramps Planted landscape terrace Linear water feature Inhabitable seating edges

Section 03 - Macquarie Walk Linear Park
Scale 1:200



Stairs to upper Linear Park 1:21 accessible ramp and planted terraces Walkway to upper Linear Park Macquarie Walk

Section 04 - Macquarie Walk Linear Park
Scale 1:200

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A	DRAFT ONLY		17.02.2017
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D	FOR SUBMISSION		05.02.2018

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Client



Project Manager



Architects

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Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

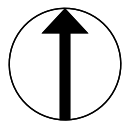
Consultant

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Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY



Drawing

MACQUARIE WALK LINEAR PARK

Drawing No.

ASP-812UA-LA-DWG-0007

Scales

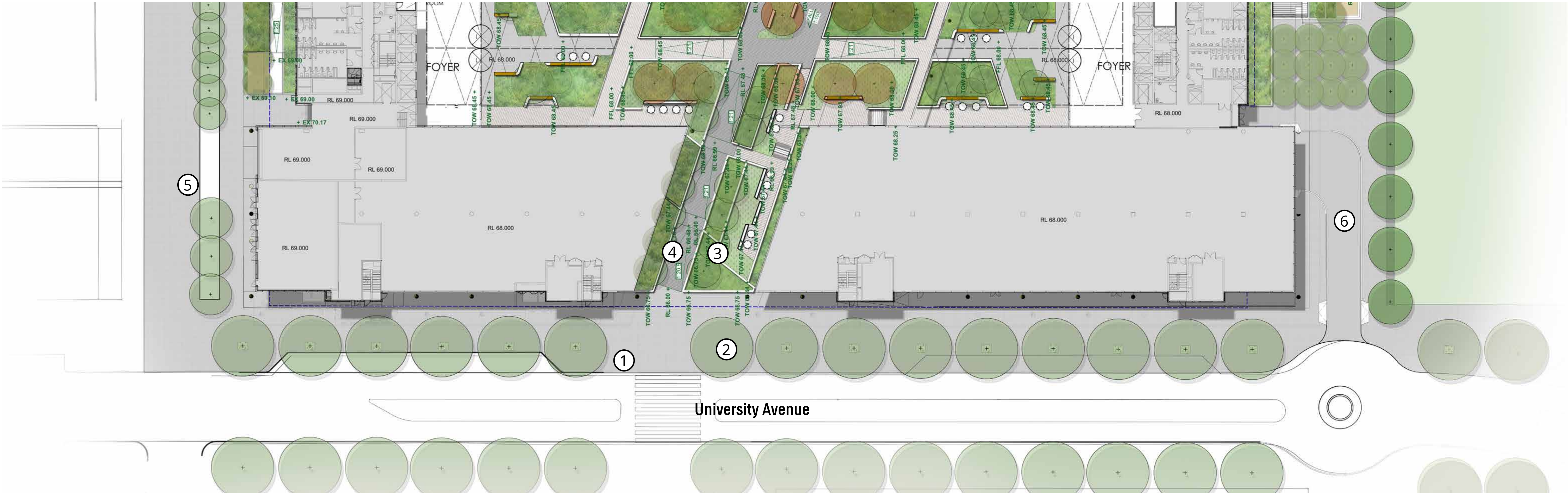
VARIES at A1 Drawn TA|DC Checked NB|KL

Revision

D

Project No.

S16022



University Avenue Streetscape Plan
Scale 1:300

Legend

- 1 Proposed crossing location to University Avenue
- 2 Existing street trees to University Avenue to be retained
- 3 Terraced landscape planting to southern Through Site Link entry
- 4 1:20.5 accessible ramped connection along Through Site Link
- 5 Proposed carmark entry from University Avenue
- 6 Existing shaft



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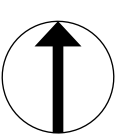
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Rev.	Revision Description	Chk.	Date
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8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY



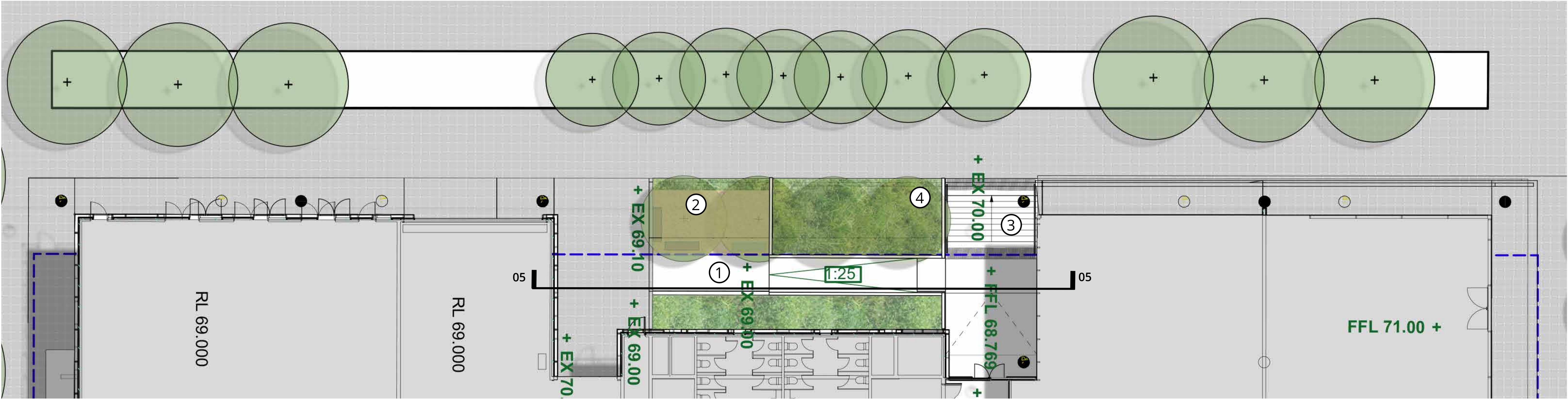
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UNIVERSITY AVENUE STREETScape

Drawing No.
ASP-812UA-LA-DWG-0008

Scales 1:300 at A1 Drawn TA|DC Checked NB|KL

Revision
D

Project No.
S16022



Western Interface Detail Plan
Scale 1:100

Legend

- 1 Accessible 1:25 ramped connection to central atrium/lobby
- 2 Inhabitable landscape buffer to shared way with precast concrete and timber seating elements
- 3 Stair connection to internal atrium/lobby
- 4 Proposed Pyrus tree plantings with understory of textured planting to provide buffer from shared way



Section 05 - Western Interface Detail
Scale 1:100



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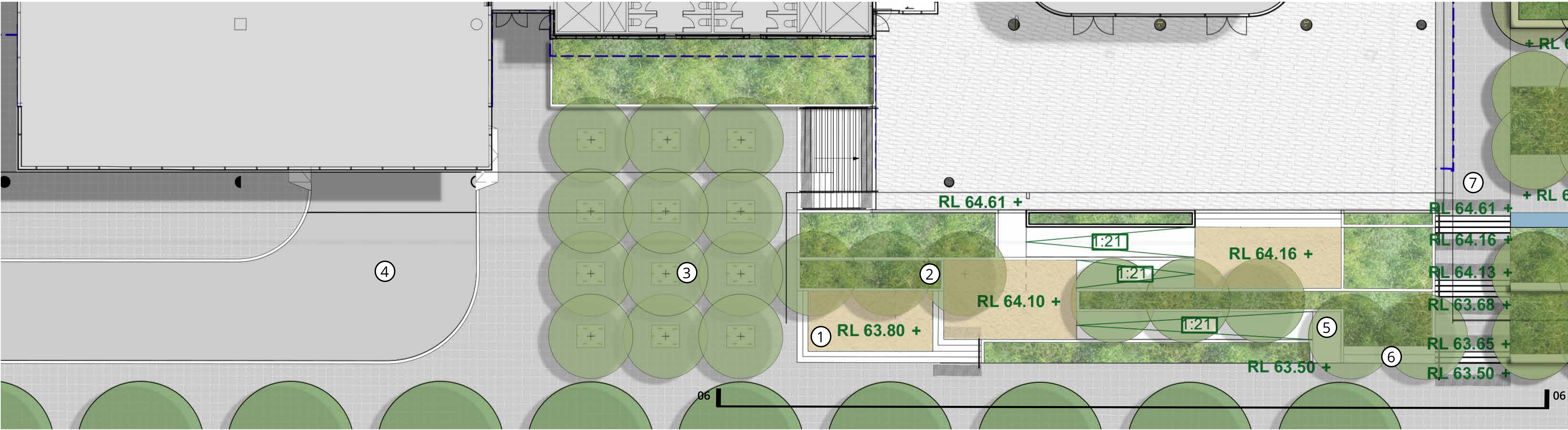
Approved Application no.: SSD-9313

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Sheet no.: ASP-812UA-LA-DWG-0009

Signed: 

Rev.	Revision Description	Chk.	Date	Client	Project Manager	Architects	Consultant	Project	Drawing					
A	DRAFT ONLY		17.02.2017	 MACQUARIE University		KANNFINCH SISSONS Kann Finch Group Pty Ltd 50 Carrington St Sydney NSW 2000 ACN 139 614 798 Tel +61 2 9299 4111 www.kannfinch.com Nominated Architect: Stephen Jamison NSW ARB Reg No 5108	ASPECT Studios™ ASPECT Studios Pty Ltd Level 1, 78 80 George Street Redfern NSW, 2016 Australia ABN 11 120 219 561 T 02 9699 7182 F 02 9699 7192 www.aspect.net.au aspectstudio@aspect.net.au	8 - 12 UNIVERSITY AVENUE MACQUARIE UNIVERSITY 	WESTERN INTERFACE DETAIL					
B	DRAFT ONLY		09.05.2017											
C	FOR SUBMISSION		28.11.2017											
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Eastern Interface Detail Plan
Scale 1:100

LEGEND

- 1 Inhabitable landscape terraces, potential for loose furniture and activation by ground floor tenants
- 2 Planted landscape terraces with textured understorey planting
- 3 Proposed grove of tree plantings. Refer to tree planting strategy for additional information
- 4 Driveway to carpark entry with raised kerb and contrasting paving treatment as per DDA recommendation
- 5 1:21 ramped accessible route. Ramped connections link inhabitable landscape terraces.
- 6 Tree plantings and textural mass planting along through site link create a human scale experience on the ground plane with shrubs to attenuate wind exposure
- 7 Alignment of stair connections informed by The Common concept plan and existing site topography



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Section 06 - Eastern Interface Elevation
Scale 1:100

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**MACQUARIE
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CADENCE



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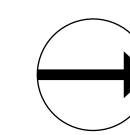
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8 - 12 UNIVERSITY AVENUE
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Drawing

EASTERN INTERFACE DETAIL

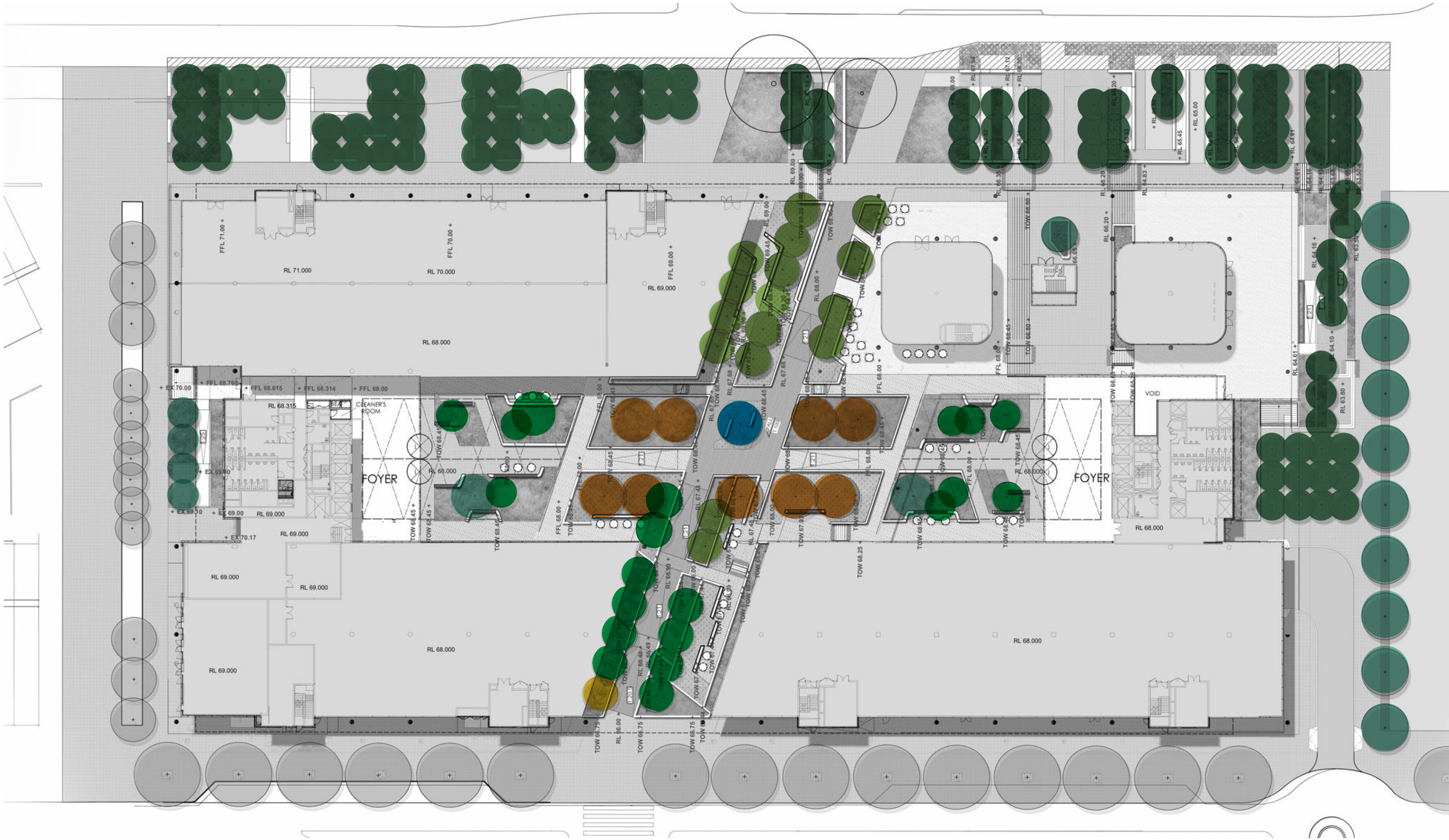
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Revision D

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Project No. S16022

TREE SELECTIONS



Tree Selections					
	Botanic Name	Common Name	Pot Size (Ltr)	Spacing (mm)	Native/Exotic
	<i>Angophora costata</i>	Smooth-barked Apple	400	N/A	N
	<i>Pyrus ussuriensis</i>	Harbin Pear	400	N/A	E
	<i>Corymbia ficifolia</i>	Red Flowering Gum	400	N/A	N
	<i>Cupaniopsis anacardioides</i>	Tuckeroo	400	N/A	N
	<i>Bambusoideae sp.</i>	Bamboo (non-rhizomatous)	400	N/A	E
	<i>Pyrus ussuriensis</i>	Harbin Pear	400	N/A	E
	<i>Brachychiton acerifolius</i>	Illawarra flame tree	400	N/A	N
	<i>Eucalyptus melliodora</i>	Yellow Box	400	N/A	N



Angophora costata

Mature Height: 25m
Mature Spread: 15m
Pot Size: Min. 400L

Pyrus ussuriensis

Mature Height: 12m
Mature Spread: 8m
Pot Size: Min. 400L



Pyrus ussuriensis

Mature Height: 12m
Mature Spread: 8m
Pot Size: Min. 400L



Brachychiton acerifolius

Mature Height: 20m
Mature Spread: 15m
Pot Size: Min. 400L



Eucalyptus melliodora

Mature Height: 20-30m
Mature Spread: 8-15m
Pot Size: Min. 400L



Bambusoideae sp.

Mature Height: 10m
Mature Spread: n/A
Pot Size: Min. 800L



Cupaniopsis anacardioides

Mature Height: 8m
Mature Spread: 6m
Pot Size: Min. 400L



Angophora costata

Mature Height: 25m
Mature Spread: 15m
Pot Size: Min. 400L



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Sheet no.: ASP-812UA-LA-DWG-011

Signed: *David Liff*

Pot Size: Min. 400L

TREE SELECTION SCHEDULE & PLAN

Drawing

Drawing No.
ASP-812UA-LA-DWG-011

Revision
D

Scales **1:500** at **A1** Drawn **TA|DC** Checked **NB|KL**

Project No.
S16022

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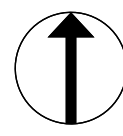
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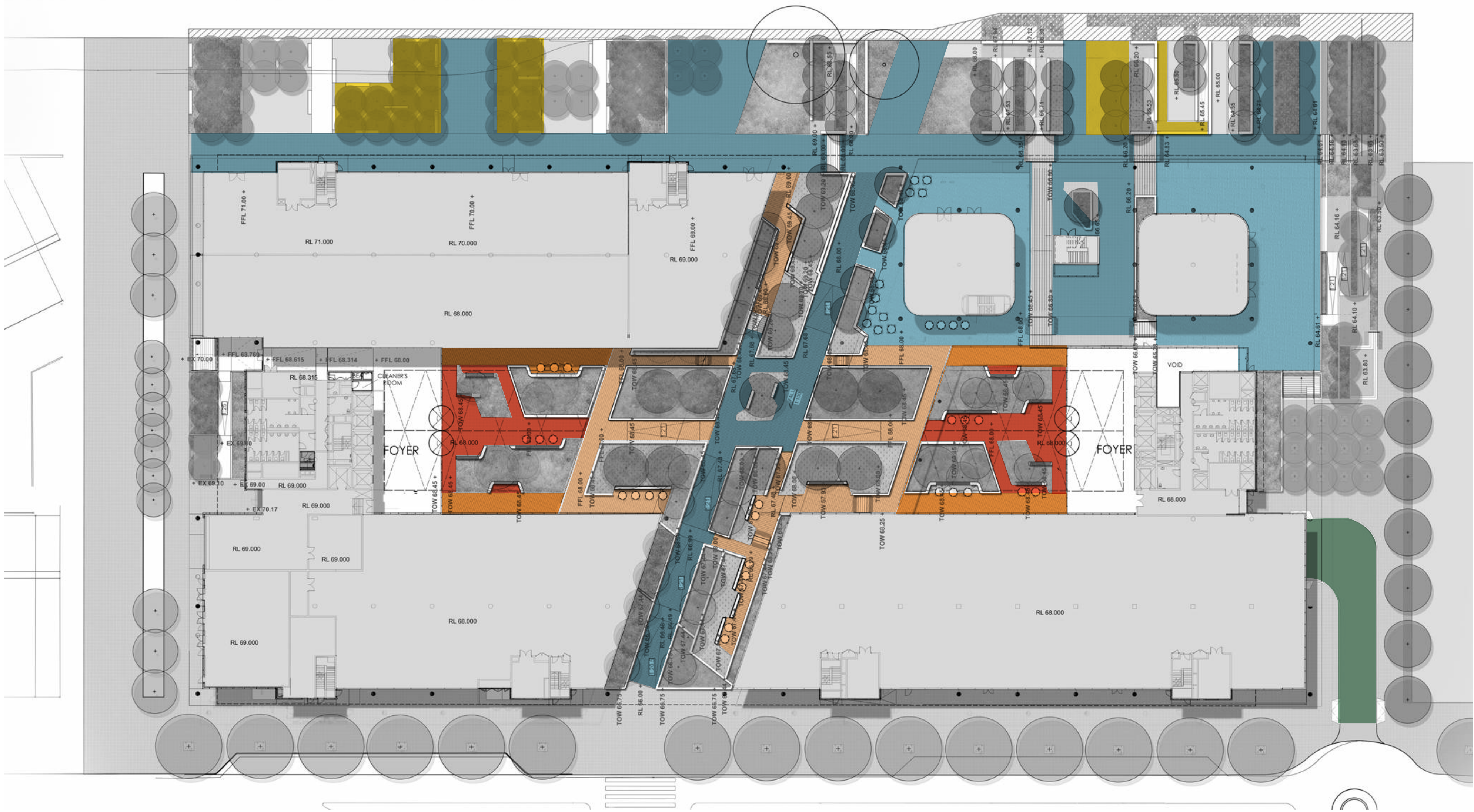
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Project

**8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY**



MATERIAL CHARACTER



MATERIAL CHARACTER

Robust materials that yield hard wearing, safe and attractive landscape outcomes are proposed throughout 8-12 University Avenue.

Large format pavers will provide a visual and tactile link between the Through Site Link and the adjacent Linear park. Smaller format pavers will be used to provide a transition from the Through Site Link to the Atrium spaces where a feature/patterned paver will reinforce the cloistered nature of these spaces. This change in materiality serves to reinforce the varied nature of these spaces.

Permeable pavements have been used within the linear park and shared zones/ driveway areas in order to achieve a greater degree of water infiltration across the development.



Large Format Paver

Location: To Through Site Link and Linear Park
Description: Large format paver



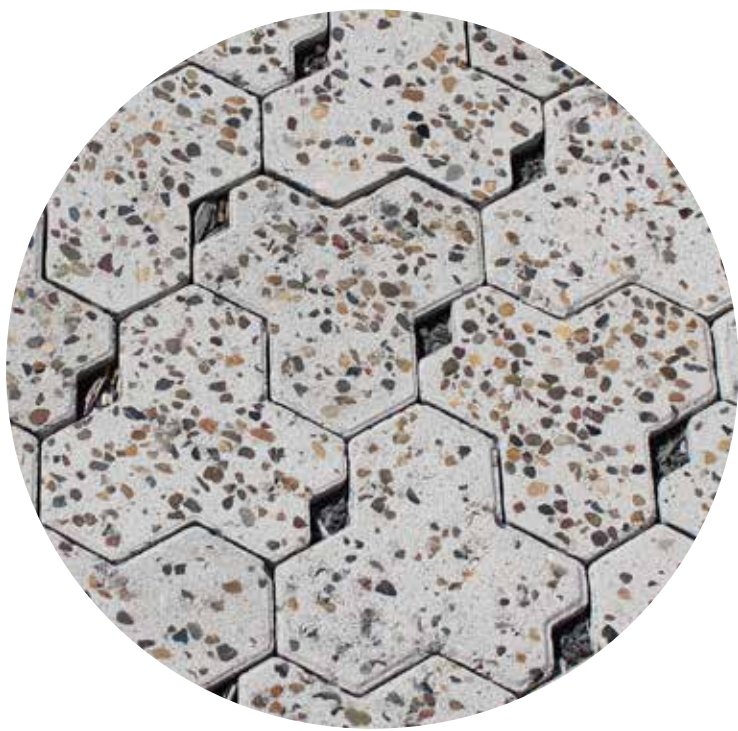
Small Format Paver

Location: To Atriums and adjoining junction with Through Site Link
Description: Smaller format paver



Feature/Patterned Paver

Location: To Atriums
Description: Smaller format paver with patterned layout reflective of architectural gemoteries



Ecotrihex Paver

Location: To shared zones and parking areas
Description: Ecotrihex with blue metal infill, heavy shotblast to expose aggregate



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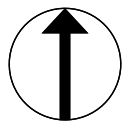
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Granted on: 21/09/20
Sheet no.: ASP-812UA-LA-DWG-012
Signed: *David Lloyd*

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8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY



Drawing
MATERIALITY CHARACTER PLAN

Drawing No.
ASP-812UA-LA-DWG-012

Scales 1:500 at A1 Drawn TA|DC Checked NB|KL

Revision
D
Project No.
S16022

CONCEPT LIGHTING STRATEGY



Lighting		
Rev.	Lighting Type	Description
A	Uplighting	Uplighting to existing mature trees and sculptures.
B	5.5m Pole Top Lighting	5.5m height post-mounted luminaire
C	Strip Lighting	Recessed, under bench light
D	General Purpose Outlet	Recessed outlet (in wall) or bollard mounted (in Garden)



5.5m Pole Top
5.5m high post-mounted luminaire



Strip Lighting
Recessed, under bench light



Uplighting sculpture

CONCEPT LIGHTING STRATEGY

Lighting within the landscape provides several key functions, allowing a dynamic and well used space throughout the day and night.

5.5m tall pole top lighting will illuminate the public domain providing amenity to the development and serving to increase CPTED safety outcomes for the adjacent Macquarie Walk. The continuation of this lighting element within the development boundary serves to link the internal Atrium spaces with the broader campus context.

Uplighting is to be used to highlight mature trees and feature planting as well as sculptural elements. Strip lighting is to be installed below seating walls to allow pedestrians to safely navigate the space at night as well as create an ambience for the landscape that varies throughout the day.

General purpose outlets are to be installed at numerous points throughout to ensure that the constructed public areas have the ability to function as informal study and meeting spaces as well as provide for passive recreation opportunities.



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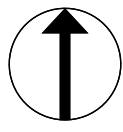
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Project
8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY



Drawing
LIGHTING CHARACTER CONCEPT PLAN

Drawing No.
ASP-812UA-LA-DWG-013

Scales 1:500 at A1 Drawn TA|DC Checked NB|KL

Revision
D
Project No.
S16022

PLANTING STRATEGY



Through Site Link				
Botanic Name	Common Name	Pot Size (mm)	Spacing (mm)	Native/Exotic
<i>Ajuga reptans</i>	Carpetweed	300	400	E
<i>Lomandra hysterix</i>	Tropicbelle	300	400	N
<i>Philodendron 'Xanadu'</i>	Xanadu	25L	400	E
<i>Tulbaghia violacea</i>	Society garlic	300	N/A	E
<i>Viola hederacea</i>	Native Violet	300	400	N
<i>Neomarica gracilis</i>	Walking Iris	300	400	E
<i>Dichondra argentea 'Silver Falls'</i>	Silver Falls	300	400	E

Macquarie Walk and Surrounds				
Botanic Name	Common Name	Pot Size (mm)	Spacing (mm)	Native/Exotic
<i>Actinotus helianthi</i>	Flannel Flower	300	400	N
<i>Anigozanthos 'Bush Fury'</i>	Red Kangaroo Paw	300	400	N
<i>Leucadendron salignum</i>	Devils Bush	25L	400	N
<i>Carpobrotus glaucescens</i>	Angular Sea-Fig	300	400	N
<i>Chryscephalum apiculatum</i>	Yellow Buttons	300	400	N
<i>Brachyscome virginia 'Violet'</i>	Rock Daisy	300	400	N
<i>Westringia fruticosa ssp.</i>	Cosatal Rosemary	300	400	N
<i>Ficinia nodosa</i>	Knotted Club-Rush	300	400	N
<i>Grevillea speciosa</i>	Red Spider Flower	300	400	N

Atriums				
Botanic Name	Common Name	Pot Size (mm)	Spacing (mm)	Native/Exotic
<i>Strelitzia nicolai</i>	Giant White Bird of Paradise	100L	1000	E
<i>Cyathea cooperi</i>	Australian tree fern	45L	1000	N
<i>Macrozamia communis</i>	Burrawang	25L	400	E
<i>Raphis excelsa</i>	Broadleaf Lady Palm	45L	1000	E
<i>Ajuga reptans 'Catlins Giant'</i>	Catlins Giant	300	400	E
<i>Asplenium australasicum</i>	Bird's nest fern	25L	800	N
<i>Doryanthes excelsa</i>	Gymea lily	45L	1000	N
<i>Viola hederacea</i>	Native Violet	300	400	N

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8 - 12 UNIVERSITY AVENUE
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Drawing

PLANTING PLAN & SCHEDULE

Drawing No.

ASP-812UA-LA-DWG-014

Scales

1:500 at A1 Drawn TA|DC Checked NB|KL

Revision

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Project No.

S16022

GENERAL

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF RYDE COUNCIL DESIGN GUIDELINES AND SPECIFICATIONS. WHERE DISCREPANCIES OCCUR THE MORE STRINGENT SPECIFICATION WILL TAKE PREFERENCE.
- COORDINATES AND REDUCED LEVELS ARE GIVEN IN METRES UNO.
- REDUCED LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) UNO.
- DIMENSIONS ARE IN MILLIMETRES UNO.
- WORKMANSHIP MUST BE IN ACCORDANCE WITH THE DRAWINGS, RELEVANT AUSTRALIAN STANDARDS AND CODES OF PRACTICE.
- DO NOT SCALE OFF FROM DRAWINGS. WRITTEN DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- WHERE REFERENCE IS MADE TO PROPRIETARY COMPONENT NAMES ON THE DRAWINGS, THE CONTRACTOR MAY PROPOSE ALTERNATIVES FOR APPROVAL BY THE ENGINEER IN ADVANCE, AS LONG AS THEY ARE EQUIVALENT OR BETTER.
- SERVICES SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE EXISTENCE AND LOCATION OF SERVICES PRIOR TO COMMENCING CONSTRUCTION.
- ON COMPLETION OF THE WORKS, THE CONTRACTOR MUST RESTORE AREAS DISTURBED FOR HIS OWN CONVENIENCE TO THE ORIGINAL CONDITION AND LEAVE THE SITE NEAT AND TIDY.
- ALL NEW WORKS SHALL MAKE SMOOTH JUNCTION WITH EXISTING CONDITIONS.WHERE DETAILS DO NOT EXIST, CONTACT THE ENGINEER.
- SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO SOIL DISTURBANCE IN KEEPING WITH THE "MANAGING STORMWATER MANUAL", 2004 BY LANDCOM AND TO COUNCIL'S SOIL EROSION AND SEDIMENT CONTROL POLICY.
- CONTRACTOR SHALL MAINTAINED DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
- ALL PITS DEEPER THAN 1.2m SHALL HAVE STEP IRONS PROVIDED IN ACCORDANCE WITH COUNCIL'S STANDARDS.
- ALL DRAINAGE LINES THROUGH LOTS SHALL BE CONTAINED WITH THEIR EASEMENT AND CONFORM WITH COUNCIL'S STANDARDS.
- SUBSOIL DRAINS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE COUNCIL.
- MINIMUM 100mm THICK TOPSOIL SHALL BE SPREAD ON ALL FOOTPATHS,BERMS, BATTERS AND SITE REGRADING AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE MINIMUM 48 HOURS NOTICE TO THE ENGINEER FOR ALL INSPECTIONS.
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
- THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES TO ENGINEERS SATISFACTION AND SHALL DISPLAY APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL NATURAL SURFACE DATA HAS BEEN DETERMINED BY TERRAIN MODELLING. ALL SITE WORKS MUST BE CARRIED OUT USING THE BENCH MARKS NOTED ON THIS DRAWING.
- 100 YEAR FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.
- ABBREVIATIONS:

ALT	-	ALTERNATE	LV	-	LENGTH VARIES
T	-	TOP	AB	-	ALTERNATE BARS REVERSED
B	-	BOTTOM	NSOE-	-	NOT SHOWN ON ELEVATION
NF	-	NEAR FACE	NSOP-	-	NOT SHOWN ON PLAN
FF	-	FAR FACE	NTS	-	NOT TO SCALE
EF	-	EACH FACE	ADD	-	ADDITIONAL BARS
C	-	CENTRALLY LOCATED	TSB	-	THREADED STARTER BAR
ES	-	EQUAL SPACES	UNO	-	UNLESS NOTED OTHERWISE
EW	-	EACH WAY	MC	-	MASS CONCRETE
GL	-	GROUND LEVEL	C/S	-	BRICKWORK COURSES
RL	-	REDUCED LEVEL	U/S	-	UNDERSIDE
FFL	-	FINISHED FLOOR LEVEL	PL	-	PLATE
SSL	-	STRUCTURAL SLAB LEVEL	BW	-	BOTH WAYS
RC	-	REINFORCED CONCRETE	FW	-	FILLET WELD
IL	-	INVERT LEVEL	KO	-	KERB ONLY
TYP	-	TYPICAL	RK	-	ROLL KERB
CL	-	CENTRE LINE	KT	-	KERB WITH TOE
STA	-	STAGGERED BARS	FK	-	FLUSH KERB
NOM	-	NOMINAL	K&G	-	KERB AND GUTTER
MAX	-	MAXIMUM	A.H.D.-	-	AUSTRALIAN HEIGHT DATUM
MIN	-	MINIMUM	ha	-	HECTARE
CJ	-	CONSTRUCTION JOINT	BDY	-	BOUNDARY
LJ	-	LONGITUDINAL JOINT	DD	-	DISH DRAIN
CT	-	CONTRACTION JOINT			

TEMPORARY WORKS

- THE CONTRACTOR MUST MAKE ALL ARRANGEMENTS TO CONTROL PEDESTRIAN AND VEHICULAR TRAFFIC ON FOOTPATHS AND PUBLIC ROADS AROUND THE SITE AND MUST INSTALL AND MAINTAIN WARNING SIGNS AND SAFETY DEVICES IN ACCORDANCE WITH AS1742.3 AND RTA TRAFFIC MANAGEMENT GUIDELINES.
- UPON COMPLETION OF THE WORKS, ALL TEMPORARY WORKS MUST BE REMOVED AND AFFECTED AREAS REINSTATED TO MATCH EXISTING.

SURVEY

- DETAILED GROUND SURVEY WITHIN THE SITE AND BOUNDARIES WERE SUPPLIED BY PROJECT SURVEYORS, ADW JOHNSON REFERENCE NUMBER 190311-SSK-003, DATED 24.06.2016.
- THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. ENSTRUCT GROUP DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE.
- SURVEY MARKS SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE ENGINEER SHALL BE NOTIFIED AND CONSENT PRIOR TO THEIR REMOVAL.
- SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT ENSTRUCT GROUP.
- ALL WORKS TO BE SET OUT BY A REGISTERED SURVEYOR.

DEMOLITION

- DEMOLITION WORKS MUST COMPLY WITH THE REQUIREMENTS OF AS2601.
- EXISTING STRUCTURES MUST BE DEMOLISHED AS NECESSARY WITHIN THE EXTENTS OF THE NEW WORKS. THIS INCLUDES FOUNDATIONS TO EXISTING STRUCTURES. DEMOLITION MATERIAL MUST BE REMOVED OFF-SITE OR AS DIRECTED BY THE PROJECT MANAGER.

STORMWATER DRAINAGE

- ALL PIPES MUST BE REINFORCED CONCRETE CLASS '3' RUBBER RING JOINT TO AS1342 UNO.
- THE CONTRACTOR IS TO ORGANISE AND STAGE CONSTRUCTION WORK AND UNDERTAKE ANY DIVERSION WORKS TO ENSURE THE EXISTING DRAINAGE IS ABLE TO CONVEY ALL STORMWATER FLOWS THAT MAY OCCUR DURING THE PERIOD OF THE CONSTRUCTION WORKS.
- THE CONTRACTOR IS TO PROVIDE DIVERSION WORKS ETC TO PROTECT WORKS IN PROGRESS UNTIL SUCH A TIME AS THE WORKS ARE IN A FINISHED AND STABLE CONDITION.
- ANY DAMAGE TO THE WORKS DUE TO STORMWATER FLOWS OR FLOODING DURING THE CONSTRUCTION PERIOD IS AT THE CONTRACTOR'S RISK.
- SETOUT POINTS FOR STORMWATER STRUCTURES ARE AS INDICATED IN THE DRAWINGS UNLESS OTHERWISE NOTED.
- ALL PAVED SURFACE LEVELS AND GRADES TO BE COORDINATED WITH GULLY PIT LEVELS TO ENSURE NO UNDRAINED AREAS OCCUR.
- THE SIDES OF ALL PIPE TRENCH EXCAVATIONS DEEPER THAN 1.0m SHALL BE FULLY SUPPORTED AT ALL TIMES AND HAVE APPROPRIATE EDGE PROTECTION.
- ALL NEW PIPES TO BE LAID IN AN UPSTREAM DIRECTION. THE LINE, LEVEL AND LOCATION OF EXISTING SERVICES CROSSING THE LINE OF THE PROPOSED STORMWATER PIPE SHALL BE DETERMINED BY EXCAVATION PRIOR TO THE LAYING OF THE PIPE. IF CONFLICT IS APPARENT, THE ENGINEER SHALL BE NOTIFIED AND INSTRUCTIONS AS TO WHETHER THE EXISTING SERVICE IS TO BE ADJUSTED OR THE PROPOSED PIPE INVERT ALTERED WILL BE ISSUED.
- PIPE BEDDING, HAUNCH AND BACKFILL TO BE AS SHOWN ON THE CIVIL DETAILS DRAWINGS AND THE CIVIL SPECIFICATION.
- SUBSOIL DRAINAGE PIPES TO BE SLOTTED PIPE AND FILTER SOCK CLASS 1000 TO AS2439 PART 1 LAID AT PREFERABLE MINIMUM GRADE 1 IN 100 OR ABSOLUTE MINIMUM 1 IN 200 WHERE LIMITED BY OUTFALL LEVELS.
- STORMWATER STRUCTURES ARE TO BE CONSTRUCTED PERPENDICULAR TO THE INCOMING PIPEWORK UNLESS OTHERWISE NOTED.
- PRECAST COMPONENTS SHALL BE CONNECTED BY MEANS OF EPOXY OR CHEMICAL GROUTED BARS OF THE SAME DIAMETER AND SPACING AS THE SMALLER BARS IN THE RESPECTIVE COMPONENTS.
- PRE-CAST PITS MUST HAVE LIFTING ANCHORS.
- WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD HIGHWAY VEHICLES AS PER AS3725. CONSTRUCTION LOADS HAVE NOT BEEN ALLOWED FOR.
- ALL EXPOSED EDGES ON STORMWATER PITS TO BE ROUNDED TO 5mm RAD. UNO.

EARTHWORKS

- ALL TREES AND SHRUBS (UNLESS NOTED TO BE PROTECTED ON THE LANDSCAPE PLANS), RUBBLE, EXISTING PAVEMENT AND EXISTING STRUCTURES WITHIN THE SITE SHALL BE REMOVED AND REUSED OR RECYCLED WHERE POSSIBLE. WHERE NOT POSSIBLE, THIS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AS PART OF THE CONTRACT.
- ANY TREES WITHIN THE WORKS AREA WHICH, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, ARE UNSOUND OR WOULD CONSTITUTE A DANGER, SHALL BE CUT DOWN AND REMOVED (EXCEPT THOSE IDENTIFIED AS BEING PROTECTED). ALL STUMPS OF TREES CUT DOWN WITHIN THE BOUNDS OF THE CONSTRUCTION AREA WHICH ARE LARGER THAN 250mm IN GIRTH, SHALL BE COMPLETELY REMOVED.
- ALL ROOTS SHALL BE REMOVED FOR A DEPTH OF 1m. CAVITIES FORMED BY THE REMOVAL OF ROOTS SHALL BE BACKFILLED AND COMPACTED.
- AFTER CLEARING AND GRUBBING ARE COMPLETE, THE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL FROM THE CLEARED AREA (INCLUDING AREAS THAT HAVE BEEN CLEARED AND GRUBBED). REMOVAL OF TOPSOIL FROM ANY SECTION OF THE WORKS SHALL ONLY COMMENCE AFTER SEDIMENT AND EROSION CONTROLS HAVE BEEN IMPLEMENTED.
- TOPSOIL SHALL BE STRIPPED FROM WITHIN THE FORMATION AREAS OF ROADS, PATHWAYS, BUILDING PADS AND MISCELLANEOUS PAVEMENTS, INCLUSIVE OF BATTERS, AND IS TO BE CONSERVED FOR THE TOP-DRESSING OF FORMED FOOTWAYS, BERMS AND BATTERS TO THE SPECIFIED DEPTH, OR WHERE NO DEPTH IS SPECIFIED TO A MINIMUM DEPTH OF 150mm, OR AS DETERMINED ON-SITE.
- EXCAVATED FILL MATERIAL NOT SUITABLE FOR REUSE ON-SITE MUST BE REMOVED OFF-SITE OR OTHERWISE USED IN LANDSCAPING AREAS WHERE AGREED IN ADVANCE WITH ENGINEER.
- EROSION AND SEDIMENT CONTROL MUST BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL CITY COUNCIL DCP, DA AND CC CONDITIONS, AND BE INSTALLED TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO LIMIT THE CREATION OF DUST NUISANCE, WHICH MIGHT ARISE DURING THE EXECUTION OF THE WORKS.
- FILL MATERIAL MUST BE PLACED IN MAXIMUM LAYERS OF 200mm (LOOSE) OR AS OTHERWISE GIVEN IN THE SPECIFICATION AND COMPACTED TO THE LEVELS AS SPECIFIED ON THE DRAWINGS.
- COMPACTED FILL MUST BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF AS3798 AND AS GIVEN IN THE CIVIL SPECIFICATION.
- BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 12 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DIRECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER. PROOF ROLLING SHALL COMPRISE 6 PASSES OF A MINIMUM.
- FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :
(A) 1 TEST PER 200m³ OF FILL PLACED PER 200mm THICK LAYER OF FILL
(B) 3 TESTS PER LAYER
(C) 1 TEST PER 2000m³ OF EXPOSED SUBGRADE
TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (2007) AT CONTRACTOR EXPENSE.
- NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.
- THE CONTRACTOR SHALL ALLOW FOR AND COORDINATE ALL MONITORING AND MAINTENANCE REQUIREMENTS IN RELATION TO SOIL AND GROUNDWATER CONDITIONS DURING CONSTRUCTION.
- ALL LAND DISTRIBUTED BY EARTHWORKS SHALL BE HYDROMULCHED, OR SIMILARLY TREATED TO ESTABLISH GRASS COVER, SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.

LOCATION	STANDARD DRY DENSITY (AS (1289 E 5.1.1.)
UNDER BUILDING SLABS ON GROUND	98-102%
UNDER PADS, FOOTWAYS AND CARPARKS	98-102%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	95-102%

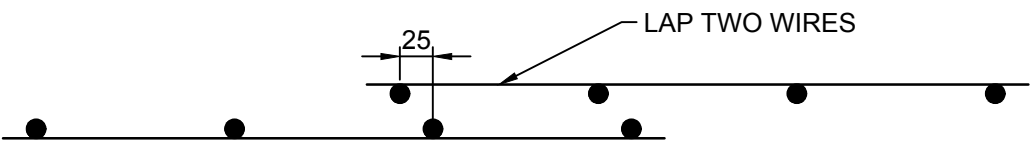
UTILITIES

- LOCATE ALL PIPES, DUCTS, CABLES, RETAINING WALLS AND EXCAVATIONS OUTSIDE A 1:2 (VERTICAL:HORIZONTAL) ZONE OF INFLUENCE FROM THE BOTTOM EDGE OF THE FOOTING.
- THE CONTRACTOR MUST TAKE EVERY PRECAUTION TO PROTECT EXISTING GAS, WATER, STORMWATER, SEWERAGE, ELECTRICITY, TELEPHONE CONDUITS AND OTHER EXISTING WORKS AND SERVICES.
- CIVIL WORKS REQUIRED TO PROTECT EXISTING SERVICES IS TO BE AT THE FULL COST OF THE CONTRACTOR.
- THE LOCATION OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITION OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

- ENSTRUCT GROUP CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
- CONTRACTOR SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
- CONTRACTORS ARE TO UNDERTAKE A SERVICE SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULT ARE TO BE KEPT ON SITE AT ALL TIMES.

CONCRETE

- THE MINIMUM CONCRETE GRADE MUST BE 25MPa UNO. THE GRADE DESIGNATION SPECIFIES THE REQUIRED CHARACTERISTIC CYLINDER STRENGTH (MPa) AT 28 DAYS.
- EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING CLASSES OF FORMWORK MUST BE USED ALL IN ACCORDANCE WITH AS3610; SURFACES THAT WILL BE RENDERED-CLASS 4, CONCEALED FROM VIEW BELOW GROUND-CLASS 5, ALL OTHER SURFACES-CLASS 3.
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- IN-SITU CONCRETE KERB AND GUTTERING MUST BE PROVIDED WITH JOINTS AT 4m INTERVALS. JOINTS MUST BE FORMED BY CUTTING THE NEWLY PLACED CONCRETE COMPLETELY THROUGH NORMAL TO THE LINE OF KERB AND RADIALLY ON CURVES. EVERY FOURTH JOINT IS TO BE FORMED AS AN EXPANSION JOINT.
- KERBS AND GUTTERS MUST BE COVERED AND KEPT DAMP FOR NOT LESS THAN THREE DAYS.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT ADDITION WITH AMENDMENTS, AS3735 AND WS-SPEC (WATER SERVICES SPECIFICATION).
- COVER TO REINFORCEMENT SHALL BE OBTAINED BY THE USE OF CONCRETE OR PLASTIC BAR CHAIRS FOR BOTTOM REINFORCEMENT, AND PLASTIC TIPPED WIRE BAR CHAIRS FOR TOP REINFORCEMENT. ALL CHAIRS TO BE SPACED 750 CRS. MAXIMUM.
- FABRIC LAP DETAIL:



- REINFORCEMENT SHALL NOT BE BENT OR HEATED ON-SITE WITHOUT THE ENGINEER'S PRIOR APPROVAL.
- CONCRETE TO BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENOUS MASS COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS.
- SURFACE FINISH TO BE BROOMED UNLESS SHOWN OTHERWISE.
- DECORATIVE FINISHES, COLORS OR PATTERNS TO BE APPLIED AS SHOWN ON THE ARCHITECT'S PLAN.

B	ISSUED FOR INFORMATION	QEJ	25.01.18
A	DRAFT FOR INFORMATION	ER	17.02.17
Rev.	Revision Description	Chk.	Date

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Client



MACQUARIE
University

Project Manager

CADENCE
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Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

GENERAL NOTES

Drawing No.
ENS-812UA-CV-DWG-0001

Revision
B

Scales NTS @ A1

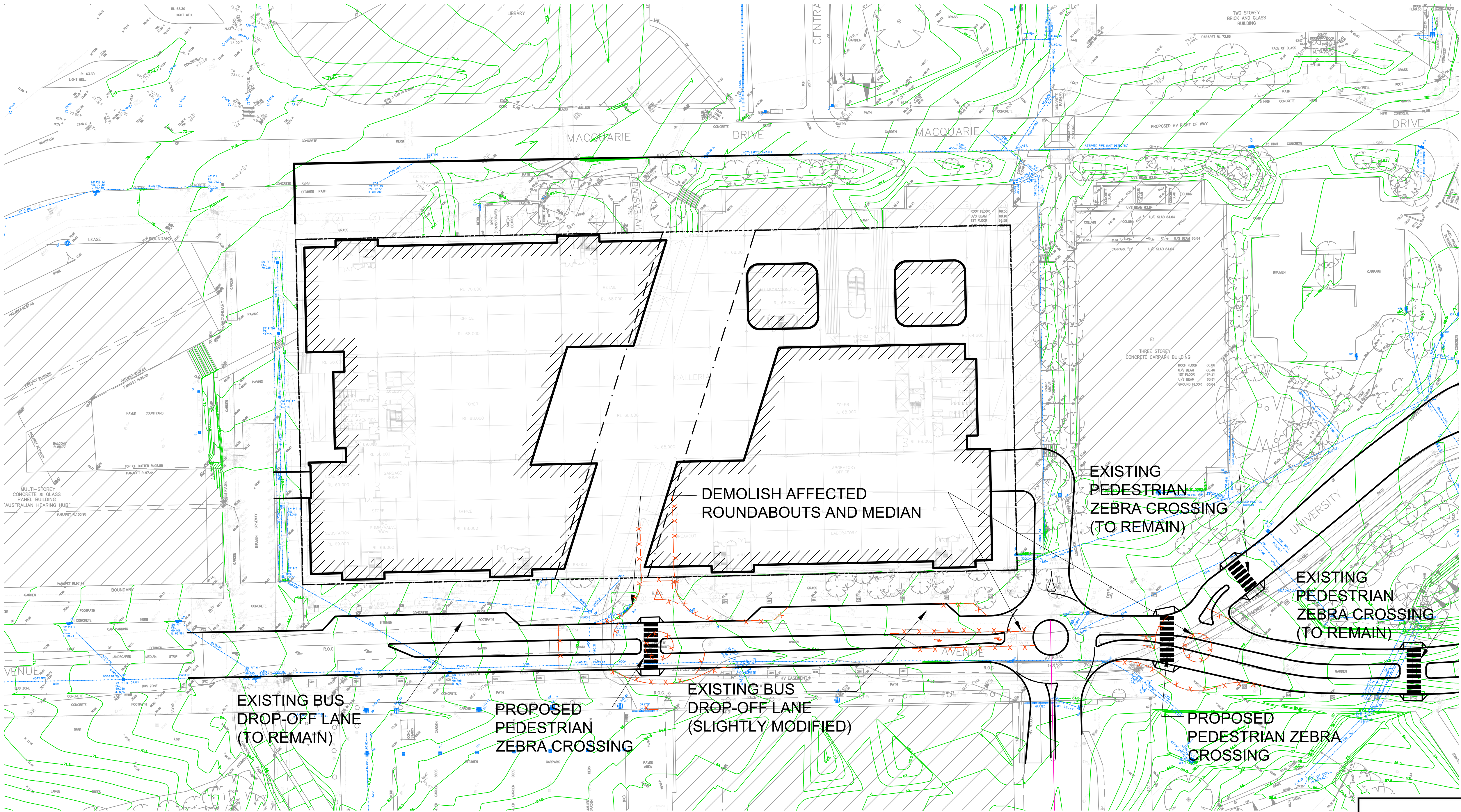
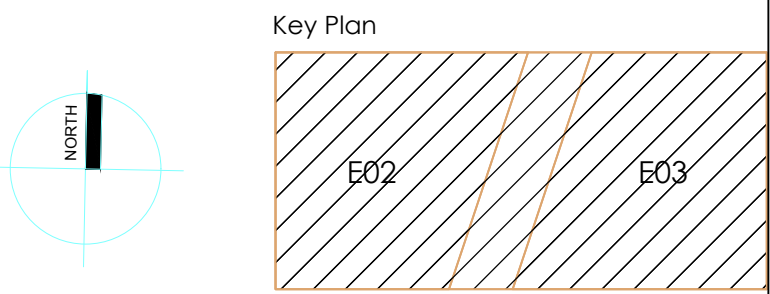
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Project No.
5294

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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: ENS-812UA-CV-DWG-0100 Signed: *David Gifford*

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C	ISSUED FOR INFORMATION	QEJ	25.01.18
B	DRAFT FOR INFORMATION	ER	08.11.17
A	DRAFT FOR INFORMATION	ER	29.03.17
Rev.	Revision Description	Chk.	Date

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8 - 12 UNIVERSITY AVENUE
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Drawing

GENERAL ARRANGEMENTS PLAN

Drawing No.
ENS-812UA-CV-DWG-0100

Scales 1:500 @ A1

Drawn IM

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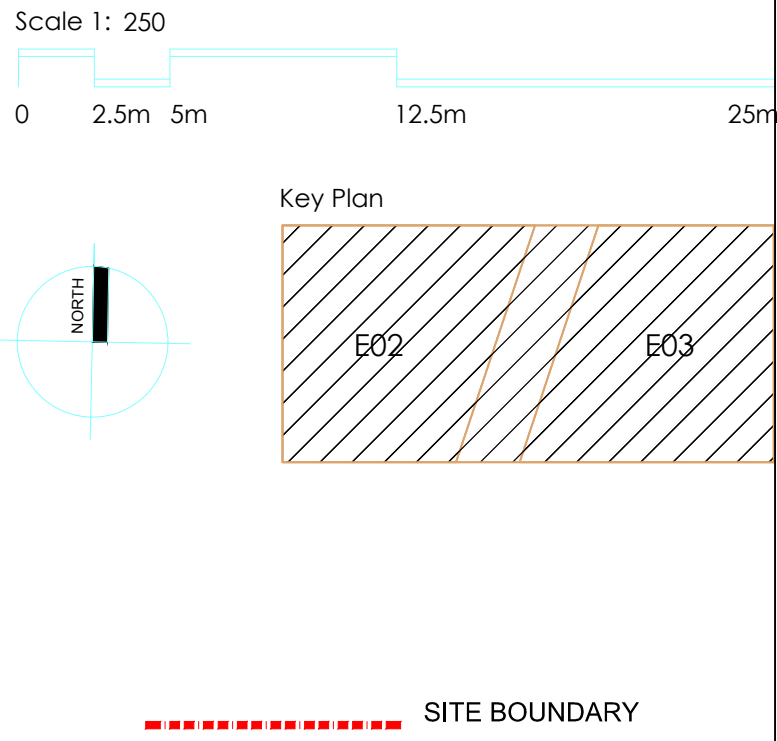
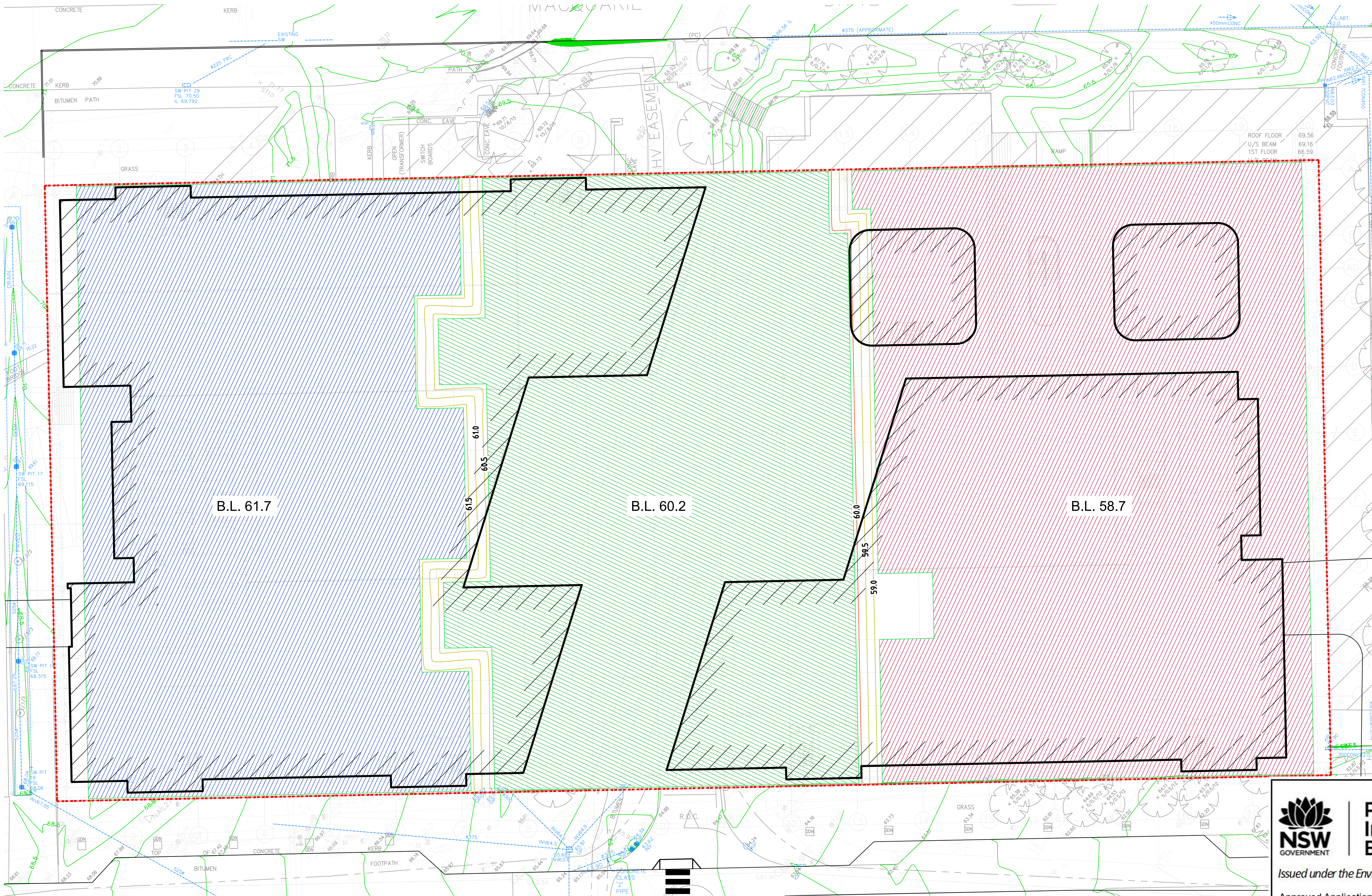
Revision

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Project No.

5294

20/01/2017 9:43:14 AM: Plot Date



NOTE:
THE TOPSOIL OR FILL LAYER THAT WILL BE EXCAVATED
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CONTAMINATION PRIOR TO ITS REUSE AS FILL MATERIAL.



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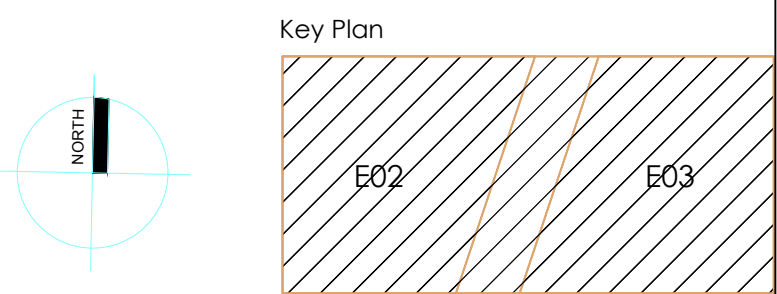
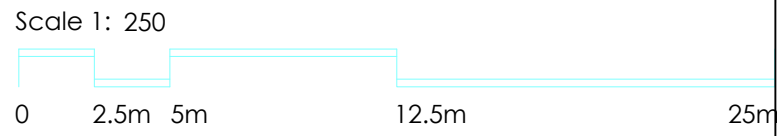
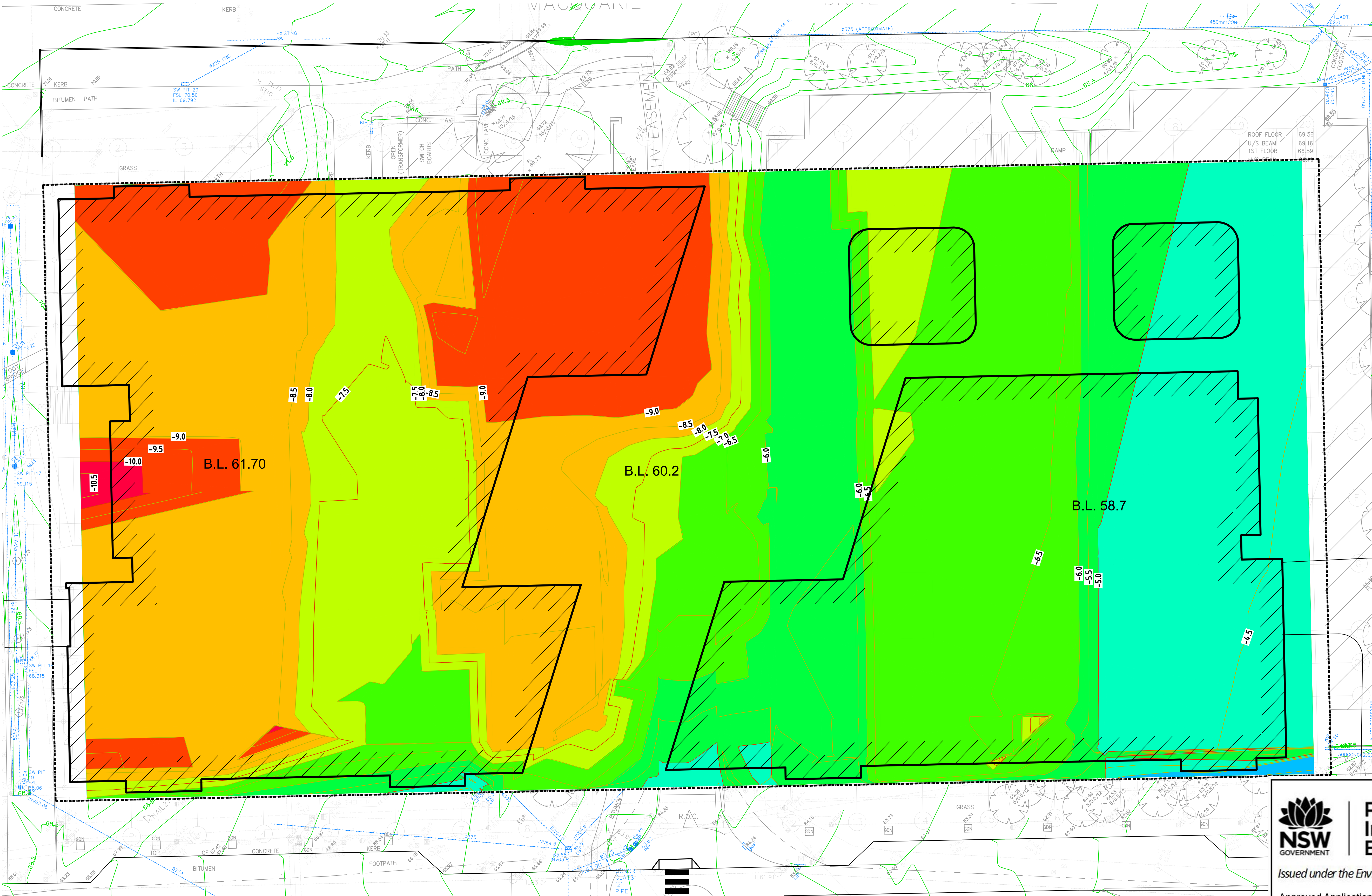
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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: ENS-812UA-CV-DWG-0101 Signed: *[Signature]*

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B	DRAFT FOR INFORMATION	ER	22.02.17																												
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Rev.	Revision Description	Chk.	Date																												



Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1		-10.677	-10.000
2		-10.000	-9.000
3		-9.000	-8.000
4		-8.000	-7.000
5		-7.000	-6.000
6		-6.000	-5.000
7		-5.000	-4.000
8		-4.000	-3.000
9		-3.000	-2.000
10		-2.000	-1.000
11		-1.000	0.000

----- SITE BOUNDARY

NOTE:
THE TOPSOIL OR FILL LAYER THAT WILL BE EXCAVATED
WILL BE SUBJECTED TO TESTING FOR ASBESTOS
CONTAMINATION PRIOR TO ITS REUSE AS FILL MATERIAL.

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
bulk volume	1.000	1.000	12198.807sq.m	86422.864 Cu. M.	0.000 Cu. M.	86422.864 Cu. M.<Cut>
Totals			12198.807sq.m	86422.864 Cu. M.	0.000 Cu. M.	86422.864 Cu. M.<Cut>



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C	DRAFT FOR INFORMATION	ER	22.02.17
A	DRAFT FOR INFORMATION	ER	17.02.17

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Project
**8 - 12 UNIVERSITY AVENUE
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Drawing
**BULK EARTHWORKS PLAN SHEET 2
TOTAL EXCAVATION ANALYSIS**

Drawing No.
ENS-812UA-CV-DWG-0102

Scales 1:250 @ A1

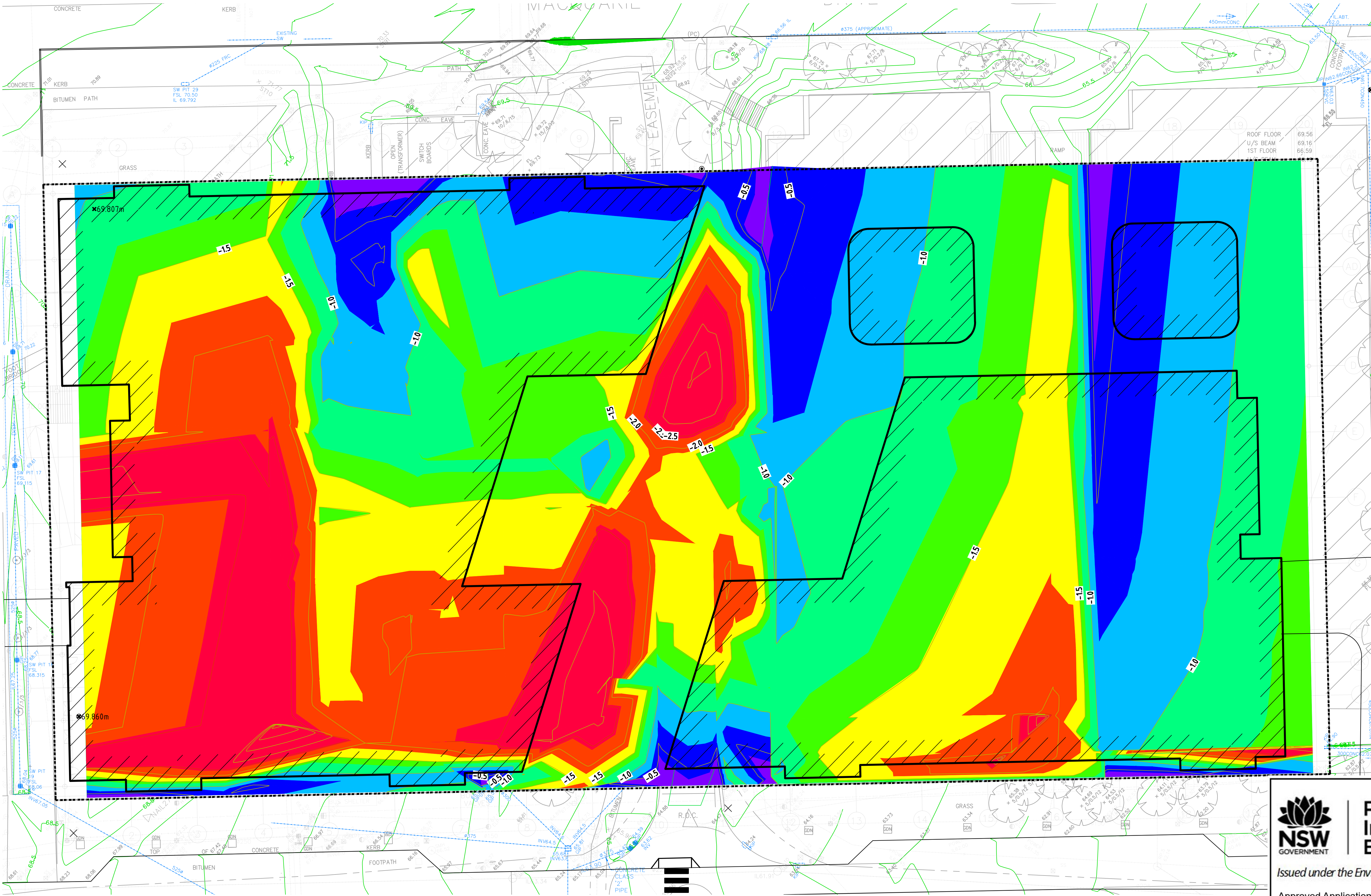
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Revision
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Project No.
5294

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Scale 1: 250
0 2.5m 5m 12.5m 25m

Key Plan
E02 E03

Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-4.660	-2.400
2	Orange	-2.400	-1.800
3	Yellow	-1.800	-1.500
4	Light Green	-1.500	-1.300
5	Green	-1.300	-1.000
6	Blue	-1.000	-0.700
7	Dark Blue	-0.700	-0.400
8	Purple	-0.400	0.000

----- SITE BOUNDARY

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Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CUT VOLUME	1.000	1.000	12209.668sq.m	17614.148 Cu. M.	0.000 Cu. M.	17614.148 Cu. M.<Cut>
Totals			12209.668sq.m	17614.148 Cu. M.	0.000 Cu. M.	17614.148 Cu. M.<Cut>



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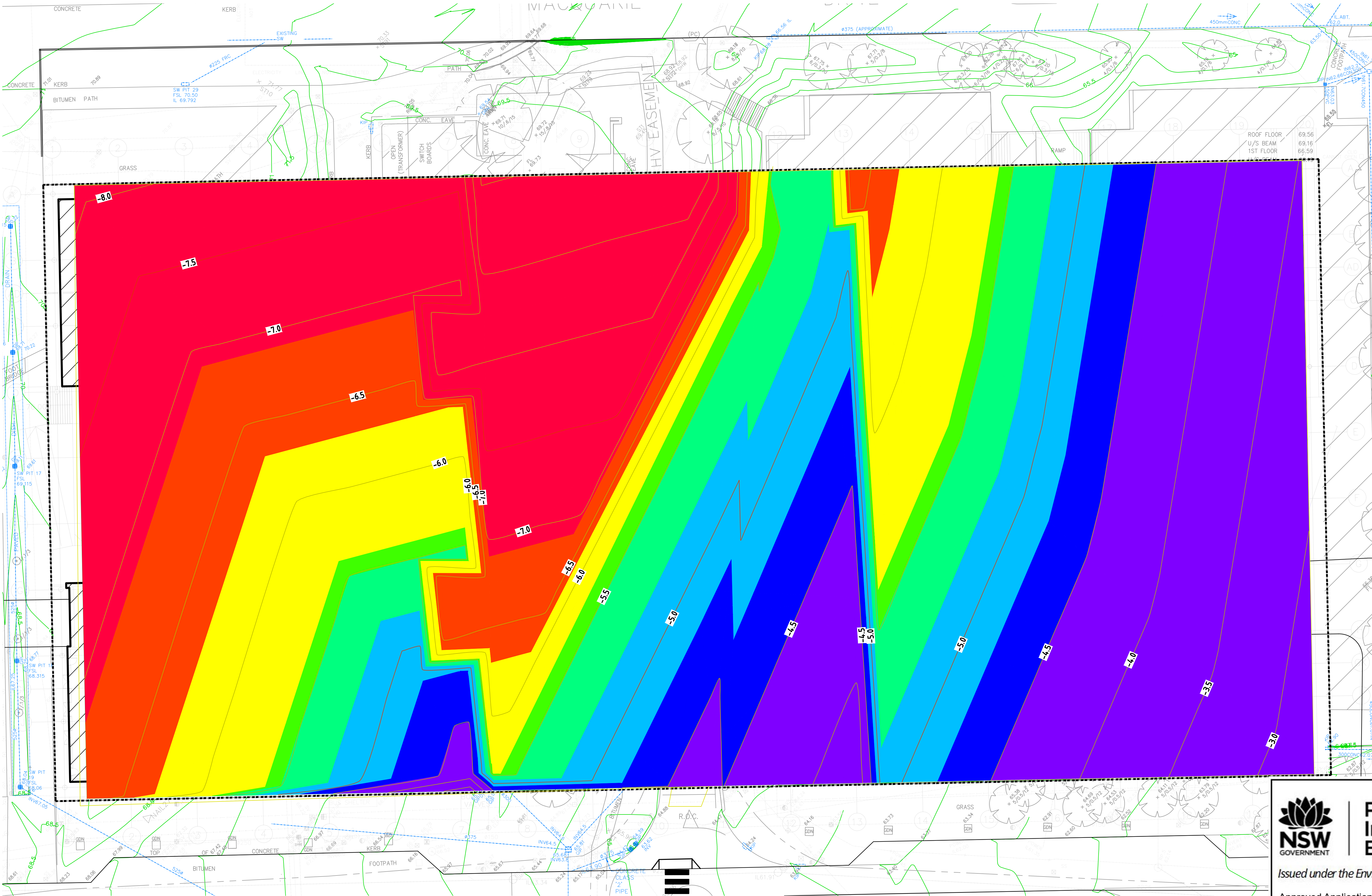
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**BULK EARTHWORKS PLAN SHEET 3
EARLY WORKS TOP SOIL CUT ANALYSIS**

Drawing No.
ENS-812UA-CV-DWG-0103

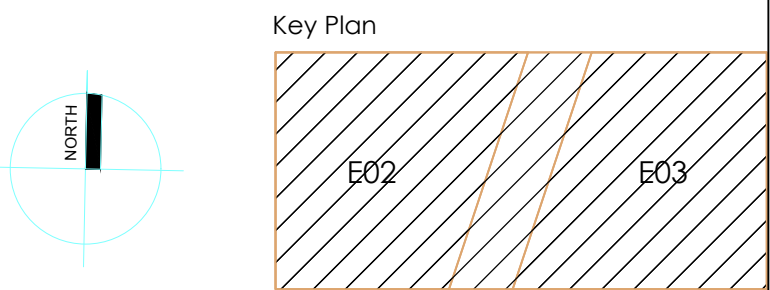
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20/01/2017 9:43:14 AM: Plot Date



Scale 1: 250
0 2.5m 5m 12.5m 25m



Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-9.044	-6.900
2	Orange	-6.900	-6.300
3	Yellow	-6.300	-5.600
4	Light Green	-5.600	-5.500
5	Green	-5.500	-5.200
6	Light Blue	-5.200	-4.800
7	Blue	-4.800	-4.500
8	Dark Blue	-4.500	-2.600

----- SITE BOUNDARY

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME CUT	1.000	1.000	12198.807sq.m	68816.085 Cu. M.	0.000 Cu. M.	68816.085 Cu. M.<Cut>
Totals			12198.807sq.m	68816.085 Cu. M.	0.000 Cu. M.	68816.085 Cu. M.<Cut>



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Project
**8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY**

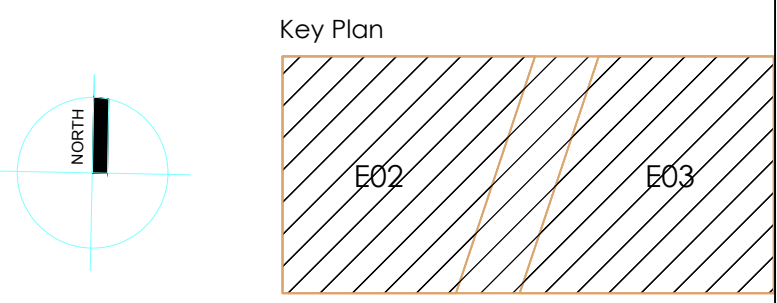
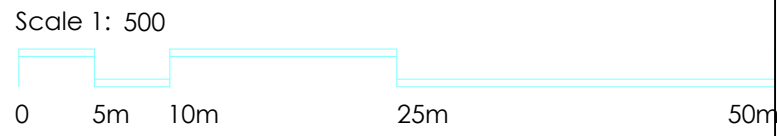
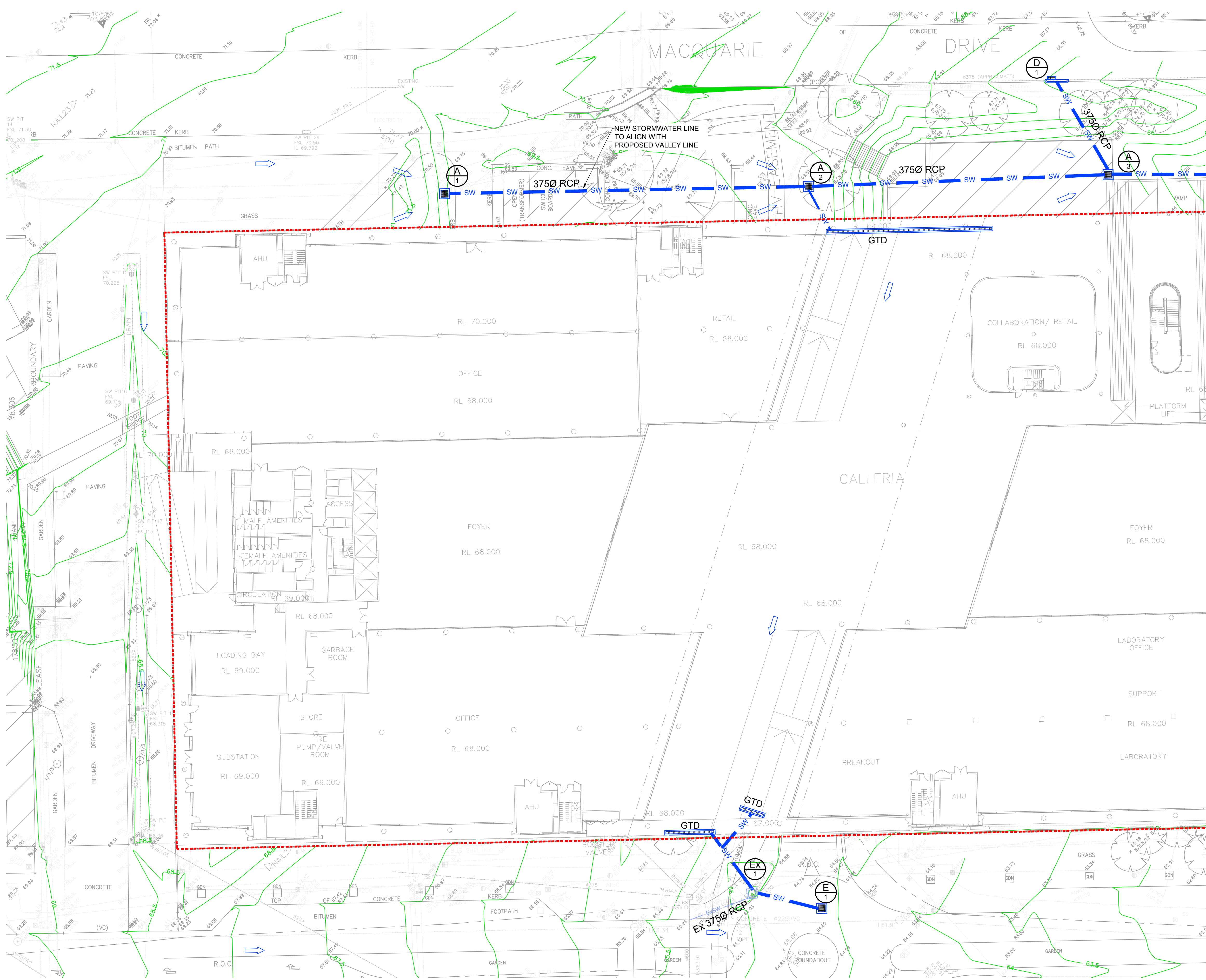
Drawing
**BULK EARTHWORKS PLAN SHEET 4
MAIN WORKS (BELOW TOP SOIL) ANALYSIS**

Drawing No.
ENS-812UA-CV-DWG-0104

Revision
B
Project No.
5294

Scales 1:250 @ A1 Drawn IM Checked ER

20/01/2017 9:43:14 AM: Plot Date



LEGEND

- SITE BOUNDARY
- EXISTING DRAINAGE PIT
- ExSW EXISTING STORMWATER DRAIN
- PROPOSED DRAINAGE PIT WITH GRATED COVER
- SW PROPOSED STORMWATER DRAIN
- PROPOSED OSD TANK
- OVERLAND FLOW DIRECTION
- PROPOSED STORMWATER PIT REFER TO DRAWING CV-DWG-0950 FOR DETAILS
- GTD PROPOSED GRATED DRAIN
- PROPOSED GROSS POLLUTANT TRAP
- EXISTING HEAD WALL
- PROPOSED FILTRATION SYSTEM
- PROPOSED KERB INLET PIT

Planning,
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Approved Application no.: SSD-9313 Granted on: 21/09/20

Sheet no.: ENS-812UA-CV-DWG-0201 Signed: *[Signature]*

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A	DRAFT FOR INFORMATION	ER	23.02.17
Rev.	Revision Description	Chk.	Date

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Client

MACQUARIE
University

Project Manager

CADENCE
AUSTRALIA

Architects

KANNFINCH I SISSONS

Kann Finch Group Pty Ltd 50 Carrington St Sydney NSW 2000
ACN 139 614 798 Tel +61 2 9259 4111 www.kannfinch.com
Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

Consultant

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Project

**8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY**

Drawing

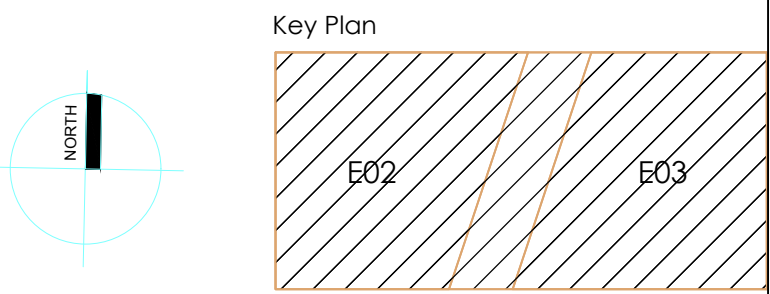
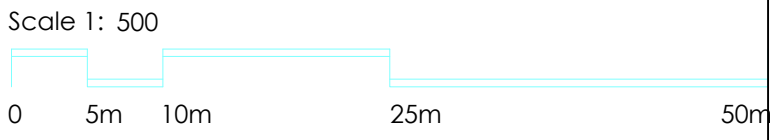
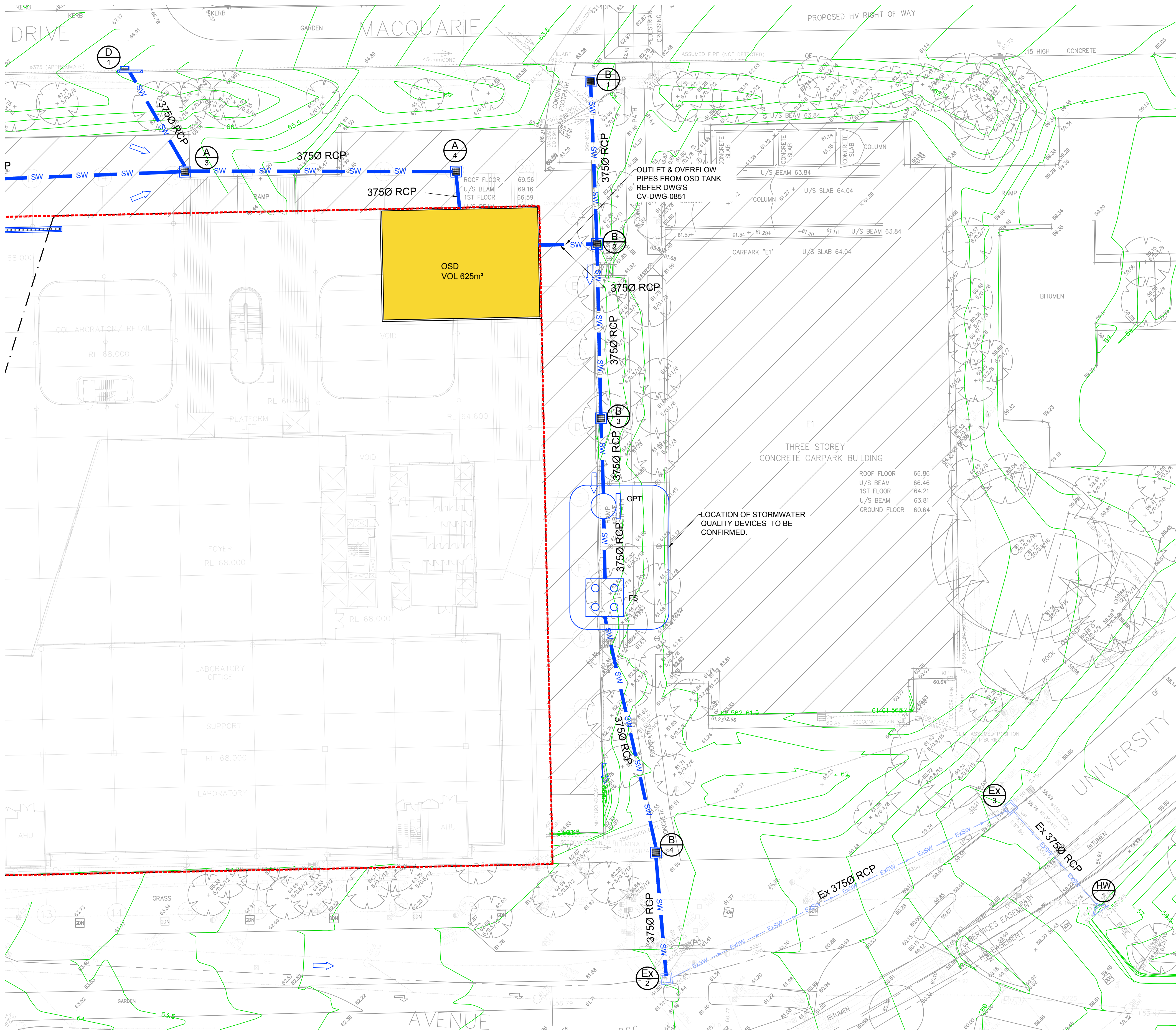
STORMWATER PLAN SHEET 1

Drawing No.
ENS-812UA-CV-DWG-0201

Revision
B

Scales 1:250 @ A1 Drawn IM Checked ER

20/01/2017 9:43:14 AM: Plot Date



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Project
**8 - 12 UNIVERSITY AVENUE
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Drawing
STORMWATER PLAN SHEET 2

Drawing No.
ENS-812UA-CV-DWG-0202

Scales 1:250 @ A1

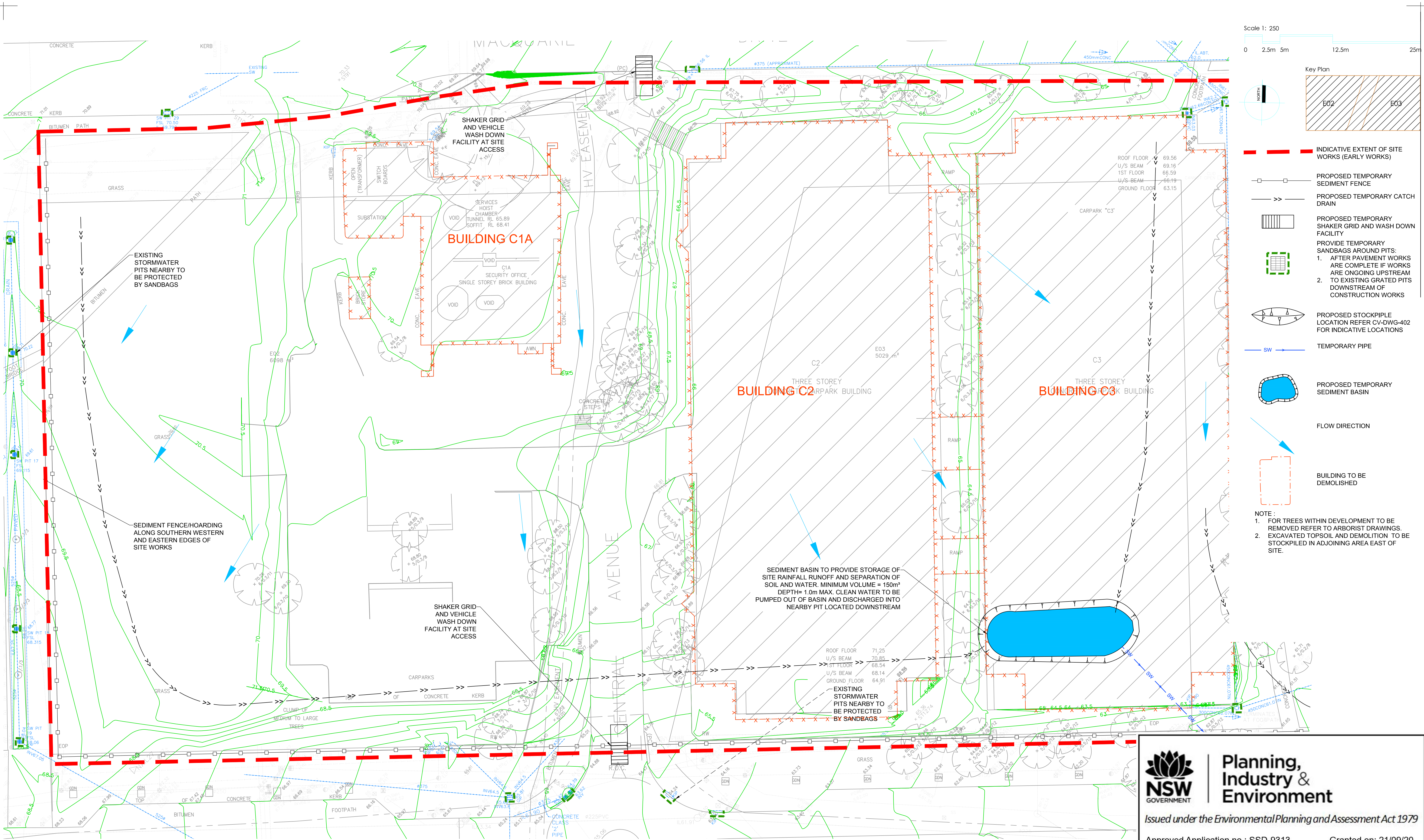
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Checked ER

Revision
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Project No.
5294

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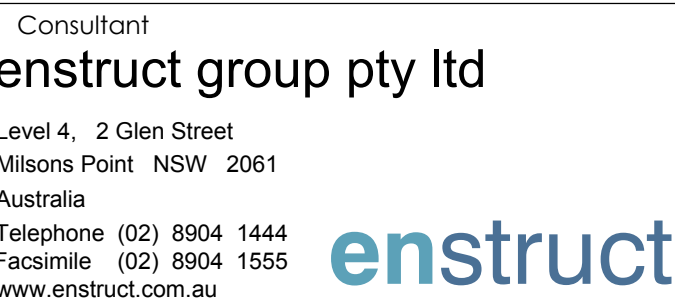
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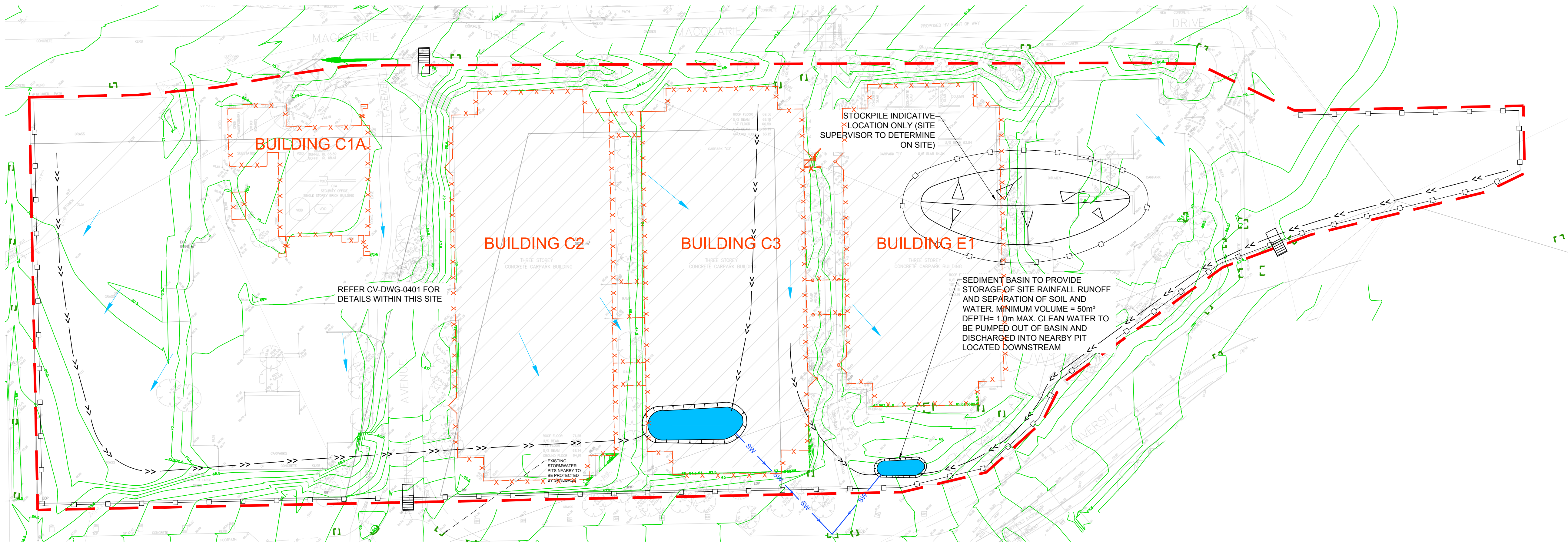
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D	ISSUED FOR INFORMATION	QJ	25.01.18
C	ISSUED FOR REF	ER	17.03.17
B	DRAFT FOR INFORMATION	ER	22.02.17
A	DRAFT FOR INFORMATION	ER	17.02.17
Rev.	Revision Description	Chk.	Date
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Project
8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing SEDIMENT AND EROSION CONTROL PLAN (EARLY WORKS) SHEET 1	Revision D
Drawing No. ENS-812UA-CV-DWG-0401	Project No. 5294
Scales 1:250 @ A1	Drawn IM Checked ER
20/01/2017 9:43:14 AM: Plot Date	



SCALE 1:500

EROSION AND SEDIMENT CONTROL:

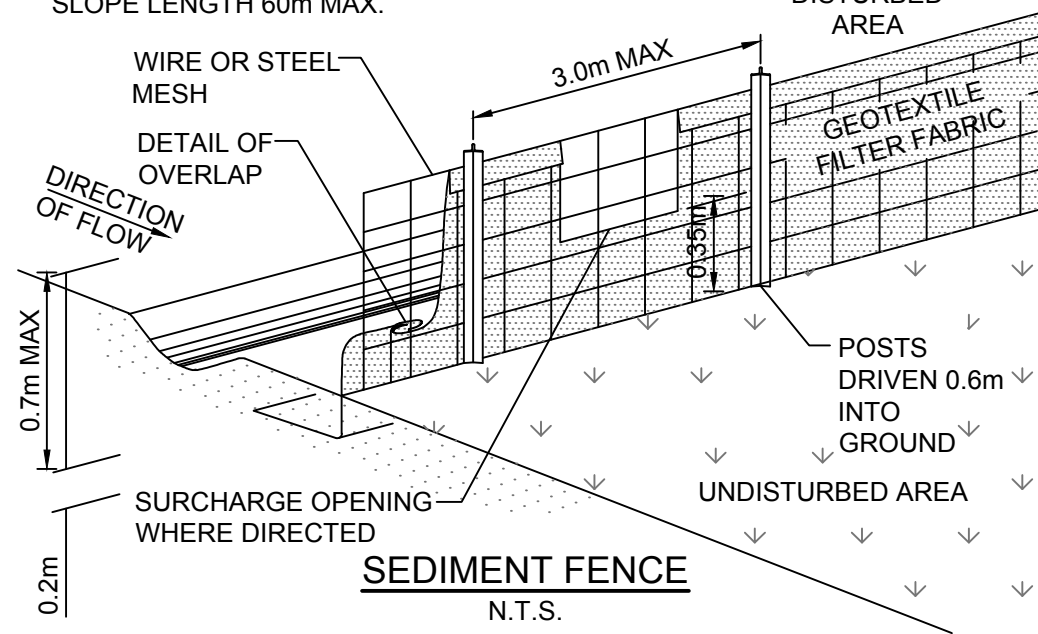
1. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRUCK WASH FACILITIES AT THE SITE EXIT AND SHALL CLEAN ALL VEHICLES EXITING THE SITE TO ENSURE MATERIALS AND MUD IS NOT TRANSPORTED AND DEPOSITED OFF SITE. WATER FROM ANY WASHBAY IS TO BE DIVERTED TO THE SEDIMENT FENCE OR TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.
2. NOTWITHSTANDING THE EROSION AND SEDIMENT CONTROL NOTES THE CONTRACTOR SHALL NOTE THEIR OVERARCHING OBLIGATION WITH THE CITY OF RYDE COUNCIL IN RESPECT OF ENVIRONMENTAL CONTROLS. PARTICULARLY ONGOING TESTING OF DISCHARGE, MAINTENANCE, DREDGING OF SEDIMENTATION PONDS AND FINAL FILTRATION AT OUTLETS.
3. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO PROTECT THE ENVIRONMENT AND IN PARTICULAR SHALL CONTROL EROSION, SEDIMENTATION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE EPA, DEC, COUNCIL, AND THE EROSION AND SEDIMENT CONTROL PLAN.
4. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION' (2004 - BLUE BOOK), AND CITY OF RYDE COUNCIL'S DCP.
5. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONFIRMED IN THE QUALITY PLAN PRODUCED BY THE CONTRACTOR AND SHALL BE IMPLEMENTED AND ADJUSTED TO SUIT CONSTRUCTION ACCESS AND STAGING.
6. FOLLOWING EVERY RAINFALL EVENT EXCEEDING 10mm OR WHEN BASINS ARE GREATER THAN 50% FULL, WATER SHALL BE TESTED FOR COMPLIANCE WITH EPA'S STANDARDS AND, IF FOUND NOT TO COMPLY, WATER SHALL BE TREATED BY APPROPRIATE FLOCCULATION, FILTRATION OR OTHER APPROVED METHODS.
7. WATER SHALL NOT BE REMOVED FROM SEDIMENT BASIN UNTIL TESTED WATER MEETS EPA WATER QUALITY REQUIREMENTS e.g. <50 MG/L SUSPENDED SOLIDS.
8. CONTRACTOR TO PROVIDE ALL PERIMETER SITE FENCING FOR SECURITY & SAFETY PURPOSES AS REQUIRED.
9. PUMP TO SYDNEY WATER SEWER ONLY WHEN WATER QUALITY MEETS EPA GUIDELINES (E.G. TSS < 50mg/L).
10. OBTAIN APPROVALS FROM SYDNEY WATER OR COUNCIL TO PUMP TO RECEIVING PIT.
11. EMPTY SEDIMENT BASIN WITHIN 72 HOURS OF RAINFALL. TREAT WATER AS NECESSARY TO ACHIEVE REQUIRED WATER QUALITY STANDARDS.
12. THE EARLY WORKS ARE OUTSIDE THE 100 YEAR ARI FLOOD EXTENTS OF UNIVERSITY CREEK; HENCE WILL NOT IMPACT THE FLOODING REGIME OF THE CREEK.

STOCKPILE NOTES:

1. PROTECT ALL STOCKPILES FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
2. SPOIL & TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE. STOCKPILES ARE TO BE SURROUNDED BY SEDIMENT FENCE.
3. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 30 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.
4. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON BARE SOIL SURFACES AND REVEGETATED.

DRAINAGE AREA 0.6ha MAX. - SLOPE GRADIENT 1:2 MAX.

SLOPE LENGTH 60m MAX.

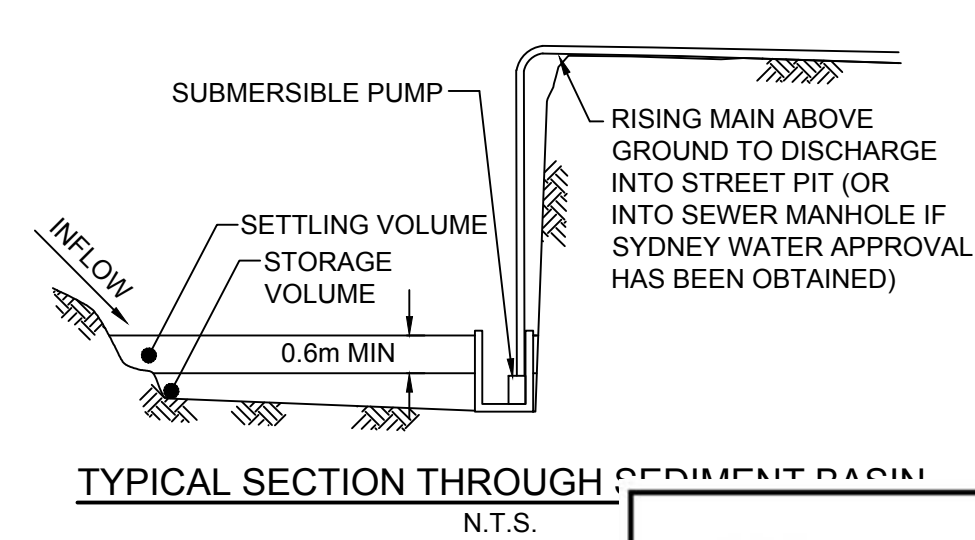
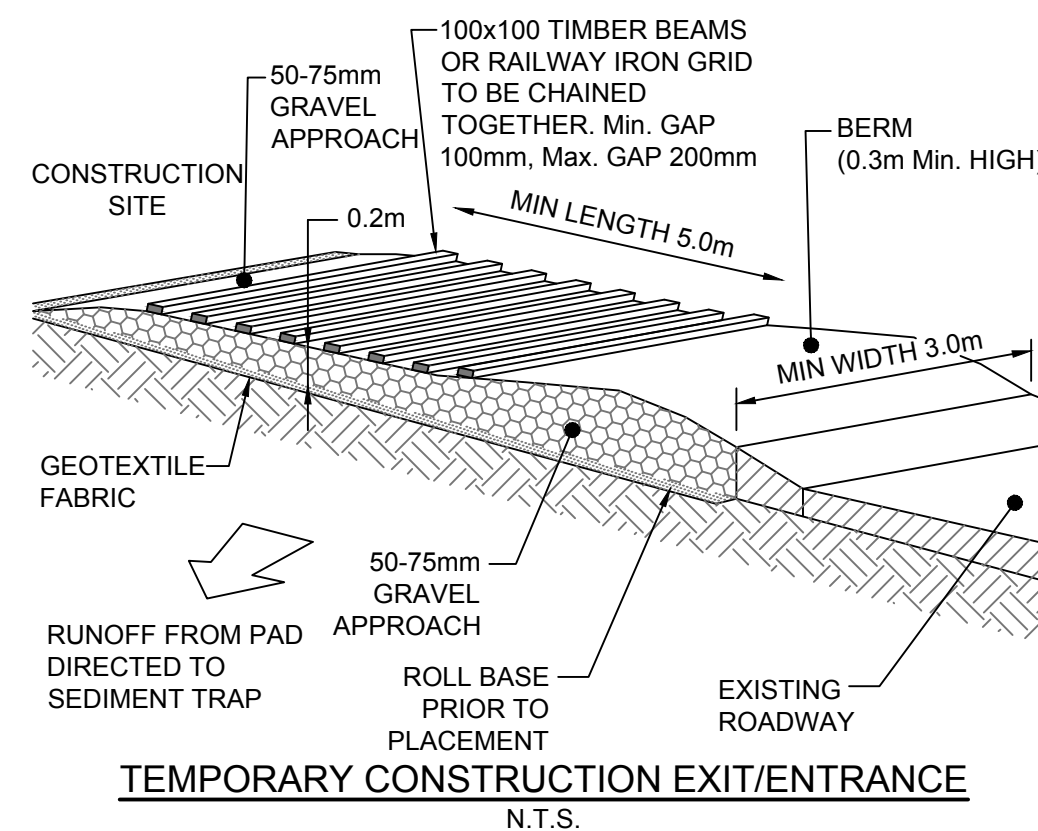


INSTALLATION

1. EXCAVATE A TRENCH 200mm DEEP.
2. DRIVE POSTS 500-700mm INTO GROUND AT A MAXIMUM SPACING OF 3.0m CENTRES.
3. PLACE AND FIX SUPPORT MESH (F52) TO POST.
4. LAY BIDIM GEOFABRIC (SF 2000) AGAINST THE SUPPORT MESH AND FIX BY TIE WIRE, STAPLES OR HOG RINGS.
5. PLACE BIDIM IN TRENCH AND BACKFILL WITH SOIL.

NOTE:

POSITION OF SEDIMENT FENCE AS DIRECTED BY SUPERINTENDENT. FENCE TO REMAIN IN PLACE UNTIL EXCAVATION IS BELOW FOOTPATH LEVEL.



NOTE:
BASIN SIZE AND DEPTH T
EXCAVATION CONSTRA



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Signed: *Paul Gifford*

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Project Manager



Architects

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Nominated Architect: Stephen Jamison NSW ARB Reg No 5108

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Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

SEDIMENT AND EROSION CONTROL PLAN
(EARLY WORKS) SHEET 2

Drawing No.
ENS-812UA-CV-DWG-0402

Revision

D

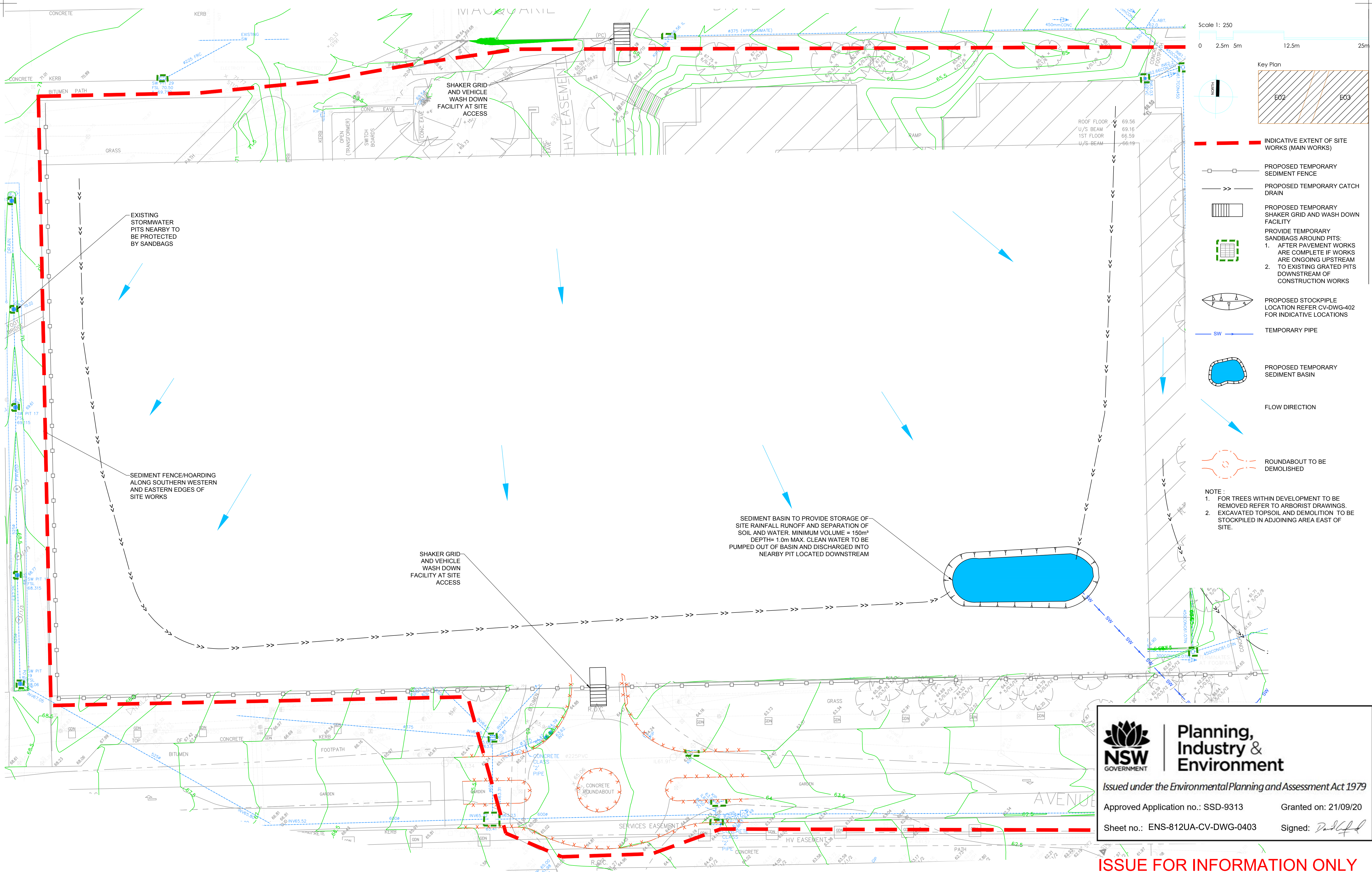
Scales NTS @ A1

Drawn IM

Checked ER

Project No.
5294

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Scale 1: 250

0 2.5m 5m 12.5m 25m

Key Plan

INDICATIVE EXTENT OF SITE WORKS (MAIN WORKS)

PROPOSED TEMPORARY SEDIMENT FENCE

PROPOSED TEMPORARY CATCH DRAIN

PROPOSED TEMPORARY SHAKER GRID AND WASH DOWN FACILITY

PROVIDE TEMPORARY SANDBAGS AROUND PITS:

- AFTER PAVEMENT WORKS ARE COMPLETE IF WORKS ARE ONGOING UPSTREAM
- TO EXISTING GRATED PITS DOWNSTREAM OF CONSTRUCTION WORKS

PROPOSED STOCKPILE LOCATION REFER CV-DWG-402 FOR INDICATIVE LOCATIONS

TEMPORARY PIPE

PROPOSED TEMPORARY SEDIMENT BASIN

FLOW DIRECTION

ROUNDABOUT TO BE DEMOLISHED

NOTE :

- FOR TREES WITHIN DEVELOPMENT TO BE REMOVED REFER TO ARBORIST DRAWINGS.
- EXCAVATED TOPSOIL AND DEMOLITION TO BE STOCKPILED IN ADJOINING AREA EAST OF SITE.

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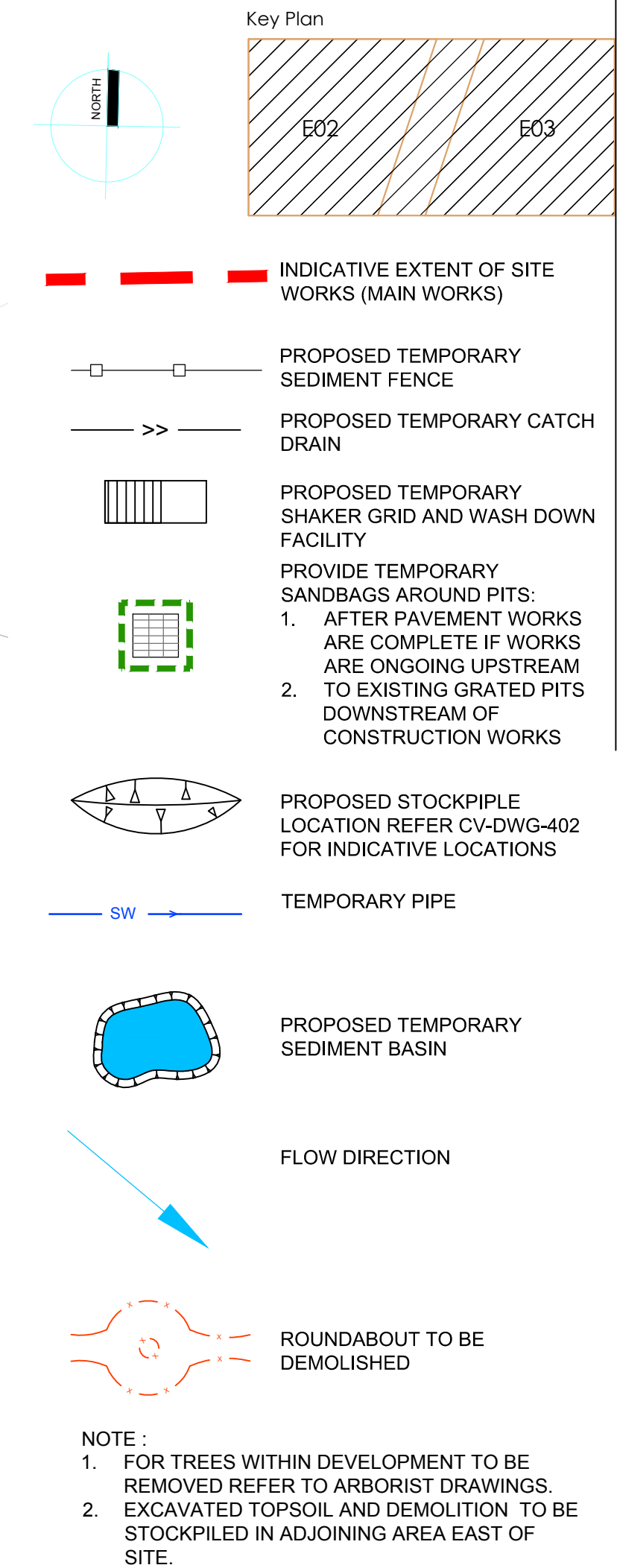
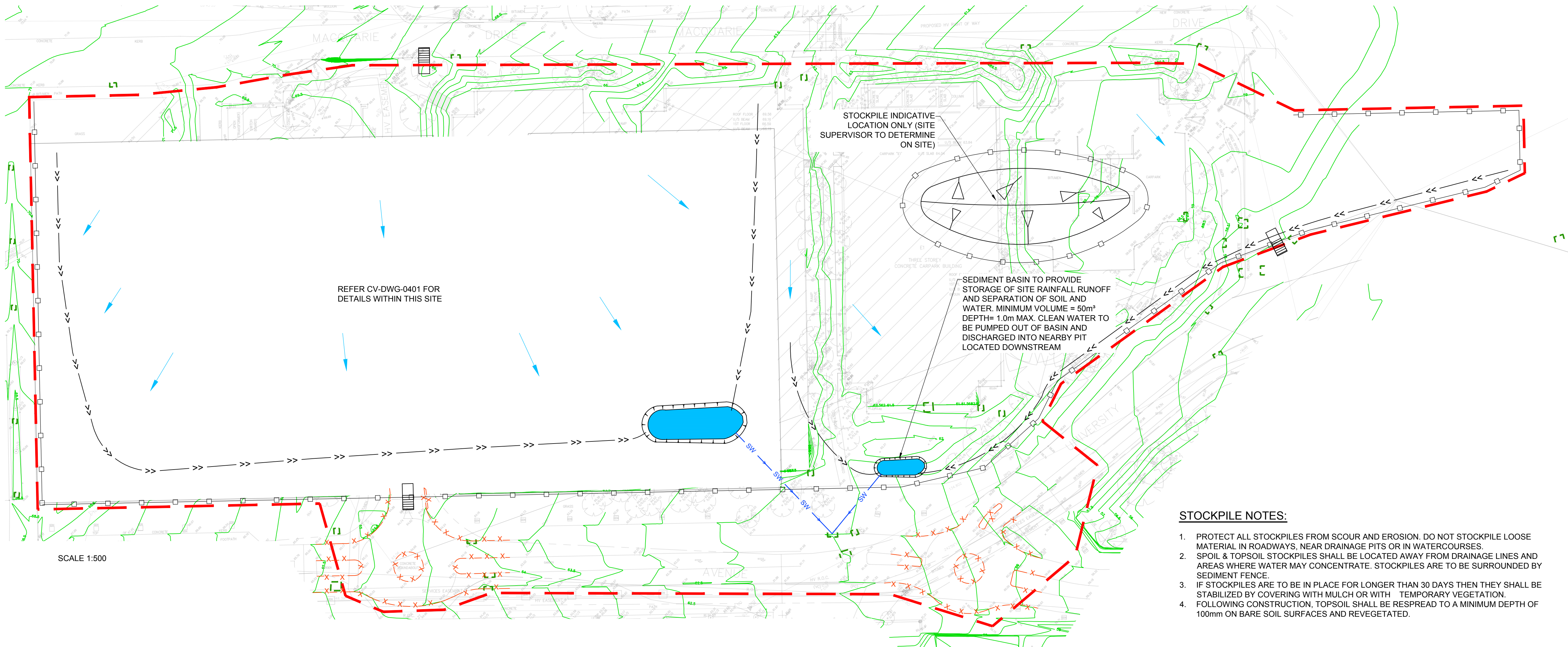
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B	ISSUED FOR INFORMATION	QEJ	25.01.18														
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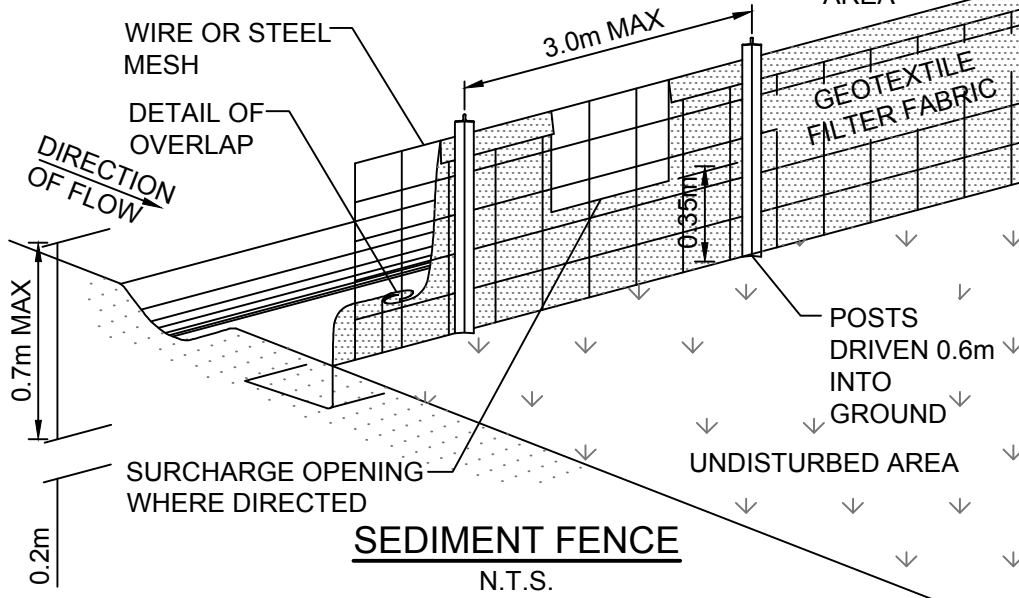
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12. EXCEPT THE ROADWORKS ALONG UNIVERSITY AVENUE, THE MAIN WORKS ARE OUTSIDE THE 100 YEAR ARI FLOOD EXTENTS OF UNIVERSITY CREEK HENCE WILL NOT IMPACT THE FLOODING REGIME OF THE CREEK. FOR THE UNIVERSITY AVENUE ROADWORKS, FLOOD MITIGATION AND MANAGEMENT MEASURES WILL BE PUT IN PLACE TO ENSURE THE FLOODING REGIME WITHIN THE UNIVERSITY AVENUE AND THE UNIVERSITY CREEK IS NOT IMPACTED.

DRAINAGE AREA 0.6ha MAX. - SLOPE GRADIENT 1:2 MAX.

SLOPE LENGTH 60m MAX.

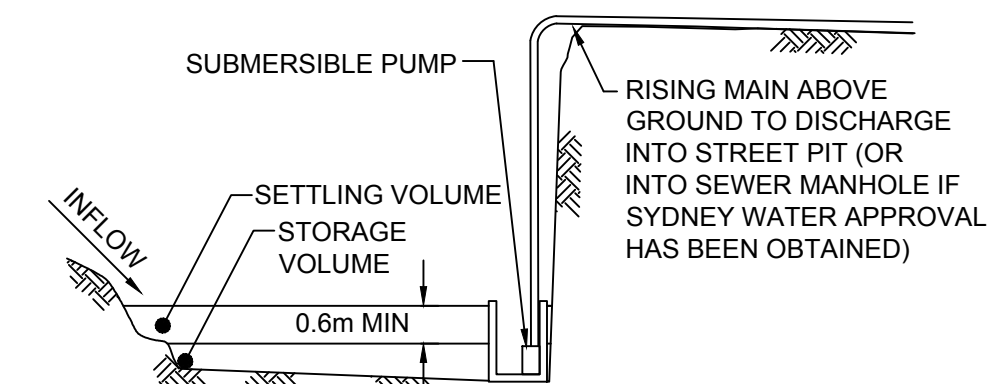
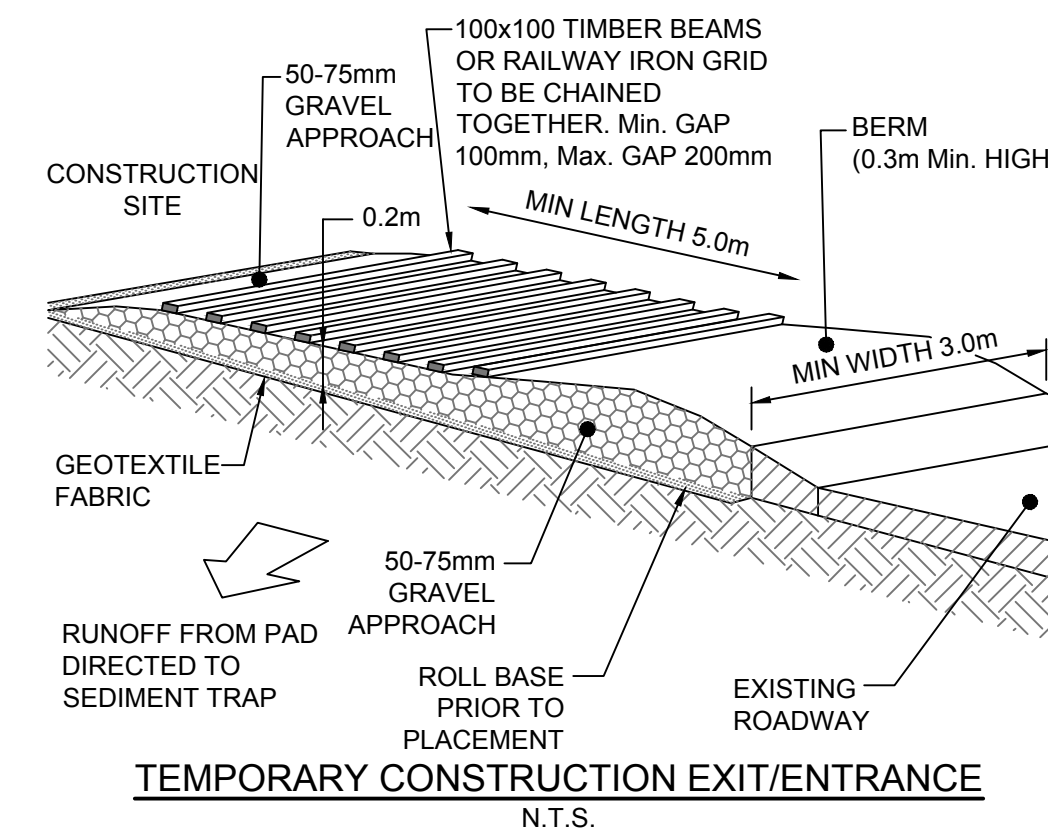


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Project

8 - 12 UNIVERSITY AVENUE
MACQUARIE UNIVERSITY

Drawing

SEDIMENT AND EROSION CONTROL PLAN
(MAIN WORKS) SHEET 2

Drawing No.
ENS-812UA-CV-DWG-0404

Revision
B

Scales NTS @ A1 Drawn IM Checked ER

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