

Development Application

St Sava College (K - 12 school)

381 St Andrews Road, Varroville NSW

DRAWING LIST

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 SITE BOUNDARY

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General Notes
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Nominated Architects (NSW) - John Baker 3552, John Kavanagh 5999

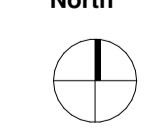
Rev	Date	Issue
D	21/9/2022	For Coordination
E	17/10/2022	For Client Review / Coordination
1	20/10/2022	Development Application
2	26/10/2022	Development Application
3	3/11/2022	Development Application

Client
St Sava College

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Scale at A1

Date
3/11/2022

North

Drawn
SB, RS

Project Address
381 St Andrews Road,
Varroville NSW
Checked
MK, JK
Status
Not for Construction

Drawing
Cover Sheet
Project No.
21019
Revision
3
Drawing No.
A-000

Future Proofing

21st Century learning principles are paramount with the new facilities. The educational principles are:

1. First and foremost, focus on the needs of learners and learning.
2. Build community, identity and create a culture of welcome, inclusion and belonging that reflects and respects diversity within the school's community.
3. Provide contemporary, sustainable learning environments that:
 - Promote learning for students and teachers through collaboration, social interaction and active investigation.
 - Encourage learner self-management and self-direction .
 - Support a full range of teaching strategies from direct explicit instruction to facilitation of inquiry and authentic project and problem based learning.
 - Facilitate learning and connection anywhere, anytime by providing seamless access to ICT and integration of learning resources throughout the learning spaces.
 - Be integrated into, and maximise the use of the natural environment.
 - Enable aspects of the buildings, building design and outdoor spaces to be learning tools in themselves - for example, learning from the ecologically sustainable features of the design and associated energy management systems. Students can see roof rainwater recycling into tanks local to each classroom. Solar collectors on north facing roofs are on display while staff carparking will feature E Charging stations once again in plain view.
 - Are age and stage appropriate.
4. Embed the potential for re-configurability, both in the present for multipurpose use and over time for changing needs.
5. Spatial arrangements and buildings that are aesthetically pleasing.

Community Use

The school, when complete has the ability to serve the community. The MPH / PAC, the Chapel, library and the sports field and amenities all have potential to engage with the surrounding community.

School Facilities

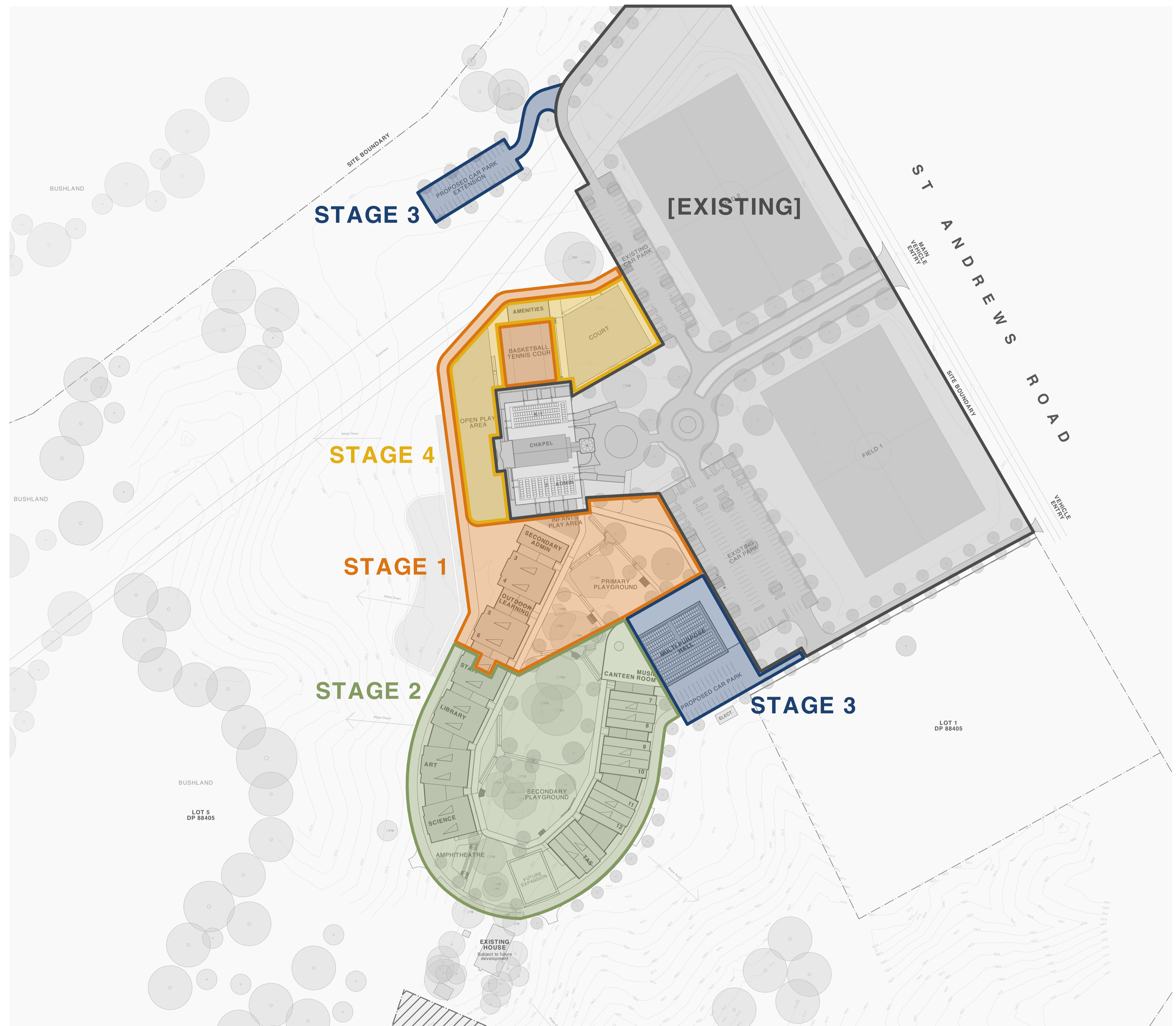
Existing Facilities (Stage 1)

Chapel	Year 1
Administration	Year 2
Staff Room	Car Parking
Toilets	Canteen
Kindergarten	Sports Fields

Existing facilities in the Chapel and Administration building will cater for Kindergarten, Year 1, Year 2 classes and staff amenities.

Proposed Facilities

- Primary Campus Years 3 - 6 (Each year to have 2 General Learning Spaces and Shared Facilities)
- Secondary School Years 7 - 12 (Each year to have 2 General Learning Spaces and Shared Facilities)
- Multi Purpose Hall
- Secondary Administration
- Library, Visual Arts, Science, Technological and Applied Studies
- Outdoor Sports Courts
- Toilet facilities for primary and secondary school students
- New Pedestrian Circulation Spine (Covered)
- Outdoor Amphitheatre
- Covered Outdoor Learning Area
- Outdoor Play Spaces and Secondary Pathways
- Proposed Carpark Extension



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1	20/10/2022	Development Application
2	26/10/2022	Development Application
3	3/11/2022	Development Application
4	15/6/2023	Additional Information for Council
5	20/11/2023	Additional Information for Council

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1:1000
Date
20/11/2023

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Drawing
Masterplan - Stages
Project No. 21019
Revision 5
Drawing No. A-002



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Drawing
Stages 2-5 Masterplan - Site Plan

Project No.
21019

Revision
4

Drawing No.
A-010



- LEGEND**
- EXISTING TREES
 - PROPOSED TREES
 - TREES TO BE REMOVED
 - TREE PROTECTION ZONE (TPZ)
 - STRUCTURAL ROOT ZONE (SRZ)
 - INTERNAL FENCE LINE [STAGE 5]
- PROPOSED LANDSCAPE SHOWN INDICATIVELY. FOR DETAILED CALLOUT, REFER TO LANDSCAPE ARCHITECT'S DRAWINGS.

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North

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Drawing
Stages 1-4 Masterplan - Ground Floor Plan

Project No. 21019
Revision 4
Drawing No. A-011

Date
 15/6/2023



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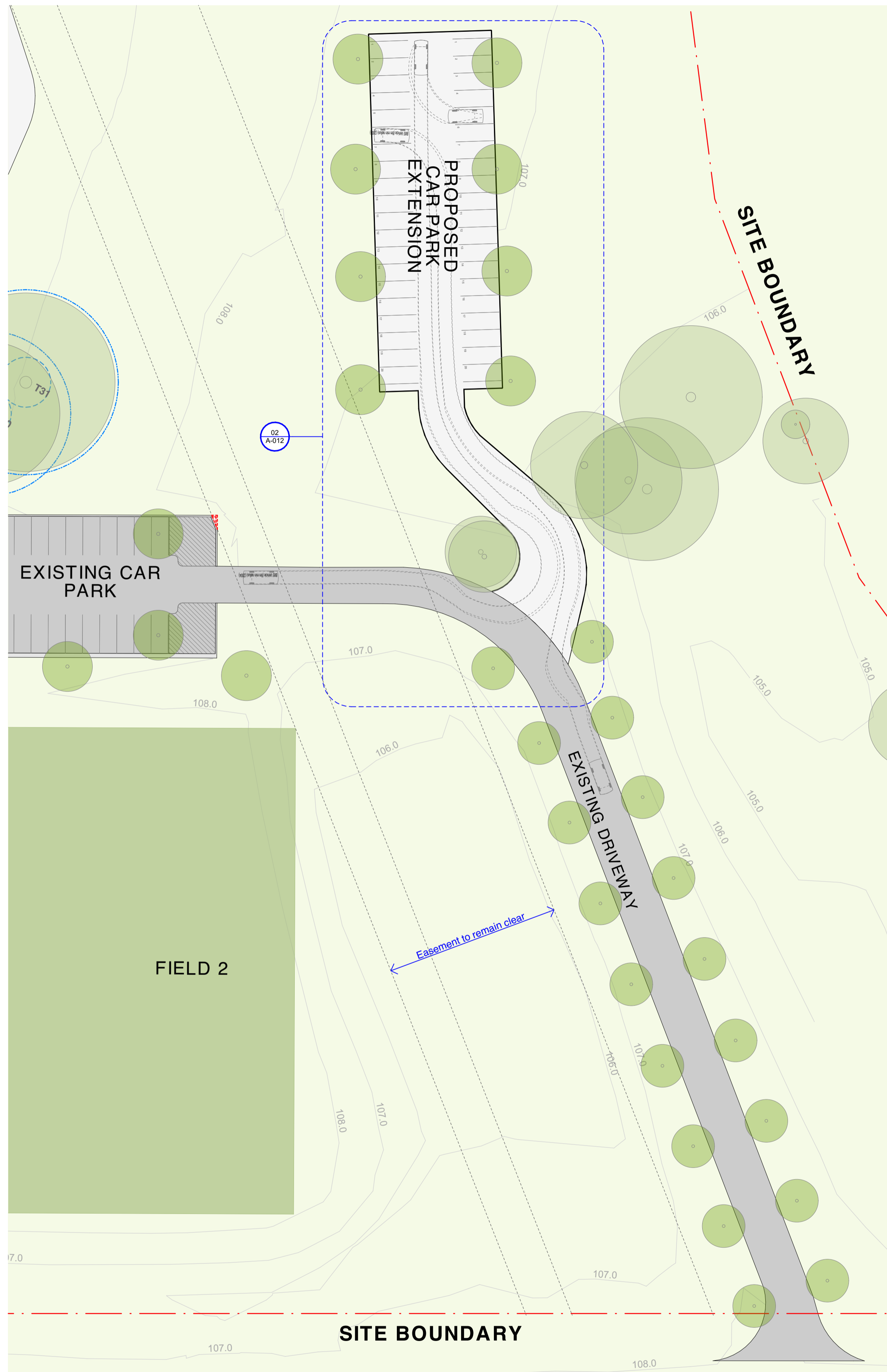
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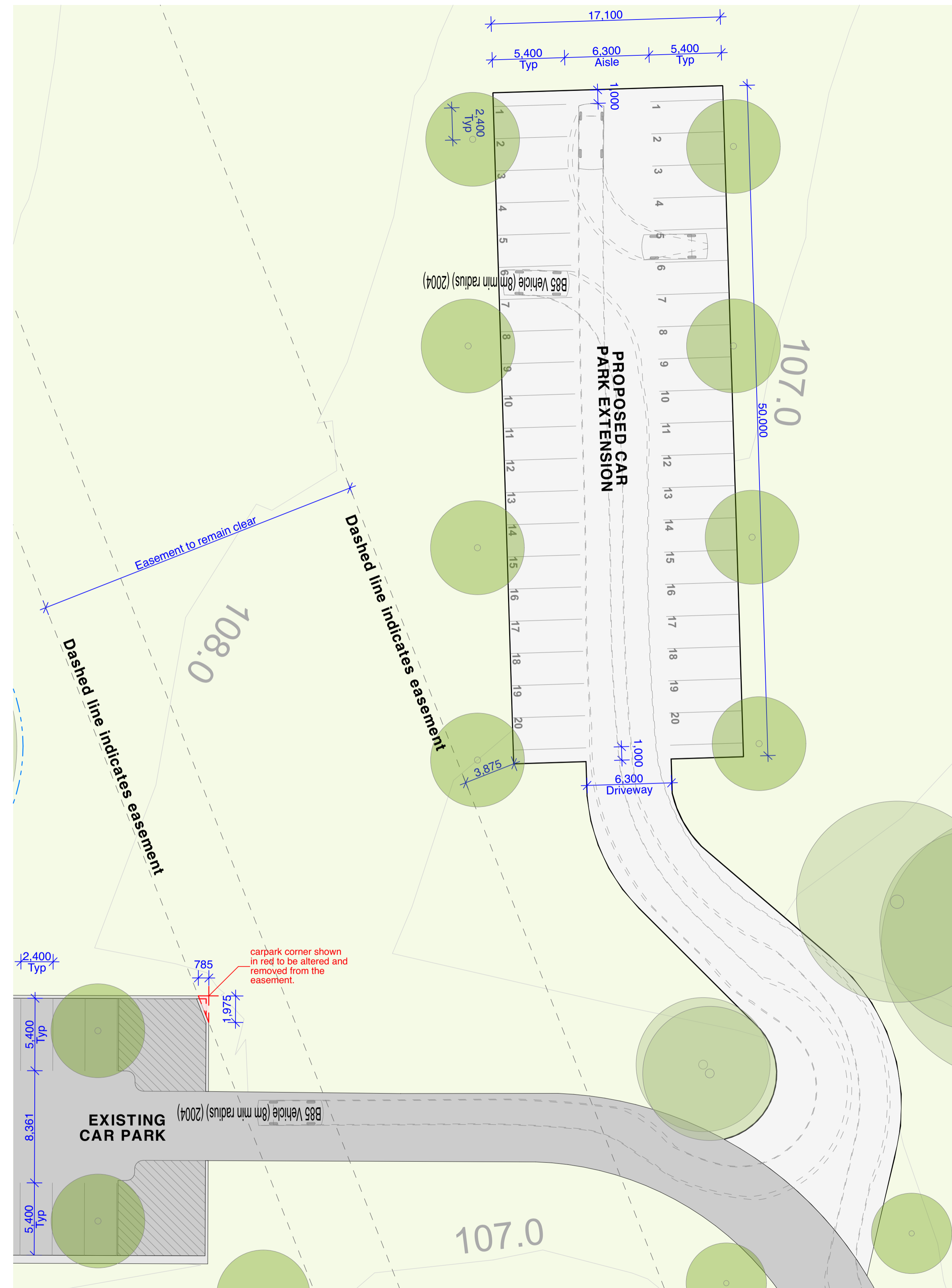
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Drawing
Stage 5 & Car Parking Plan

Project No. 21019
Revision 4
Drawing No. A-012



01 Proposed Car Park Site Plan 1:400



02 Proposed Car Park - Typical Detail Plan 1:200

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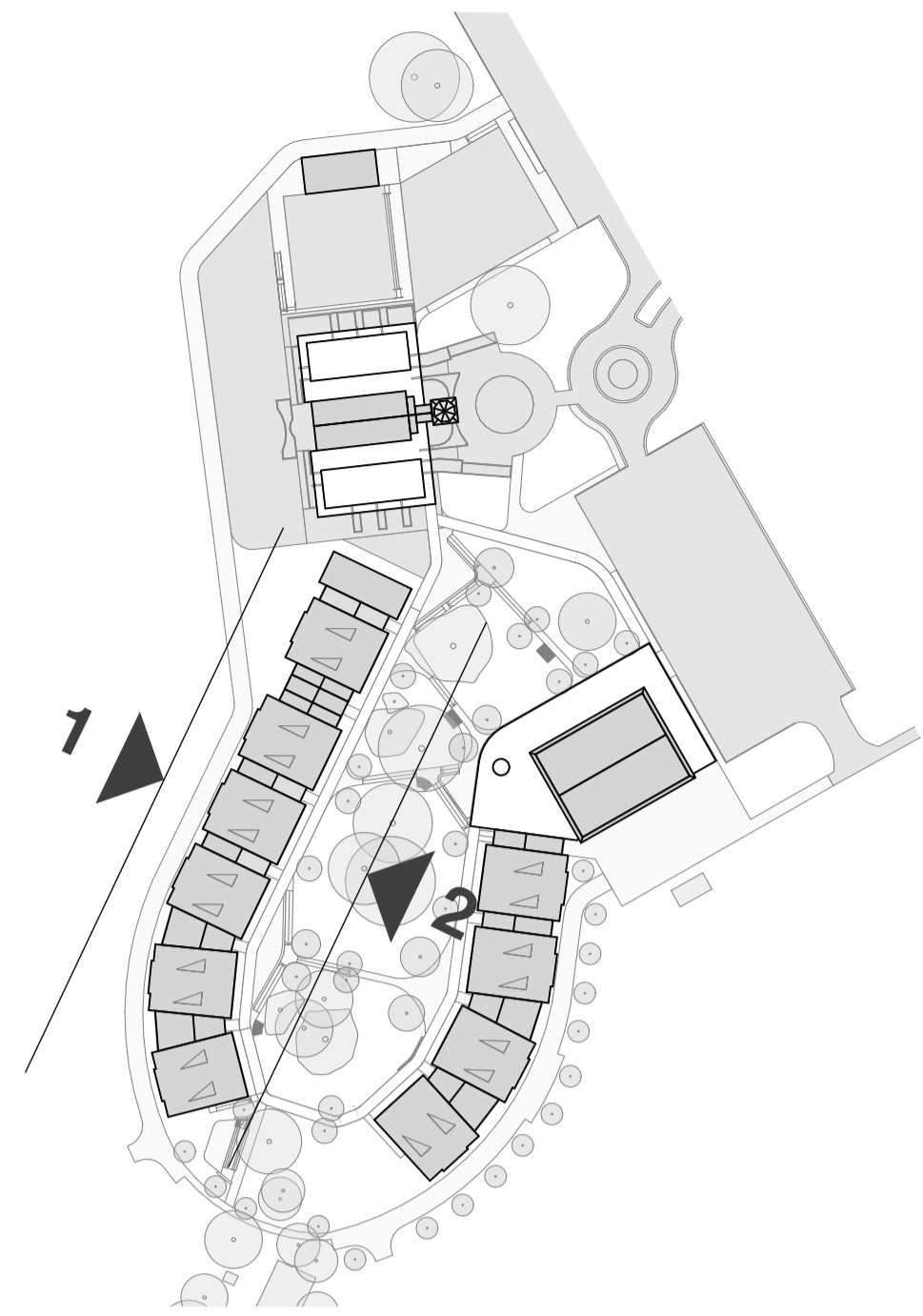
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Date
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North

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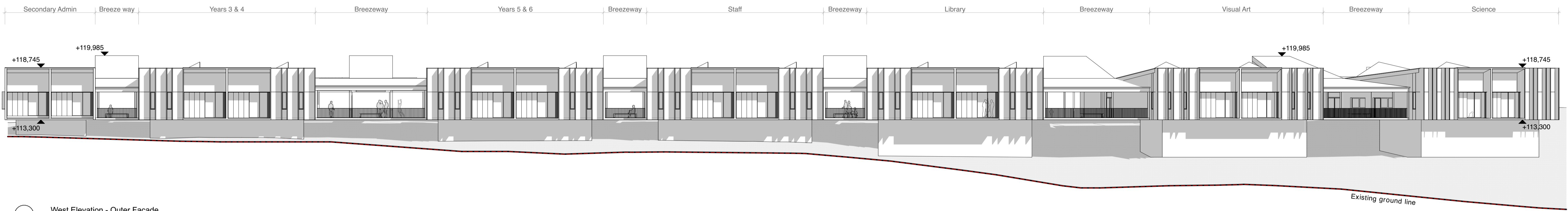
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Drawing
Car Parking Plan
Project No. 21019
Revision 01
Drawing No. A-015

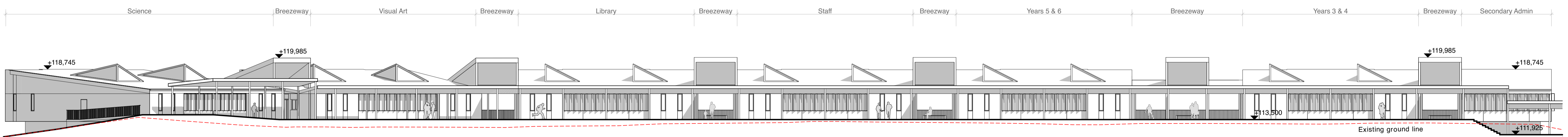


KEY PLAN

NOTE:
LANDSCAPING NOT INDICATED FOR CLARITY.
FOR DETAIL, REFER TO LANDSCAPE
ARCHITECT'S DRAWINGS.



1 West Elevation - Outer Facade
1:200
For reference to elevation,
refer to key plan



2 East Elevation - Inner Facade
1:200
For reference to elevation,
refer to key plan

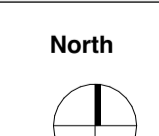
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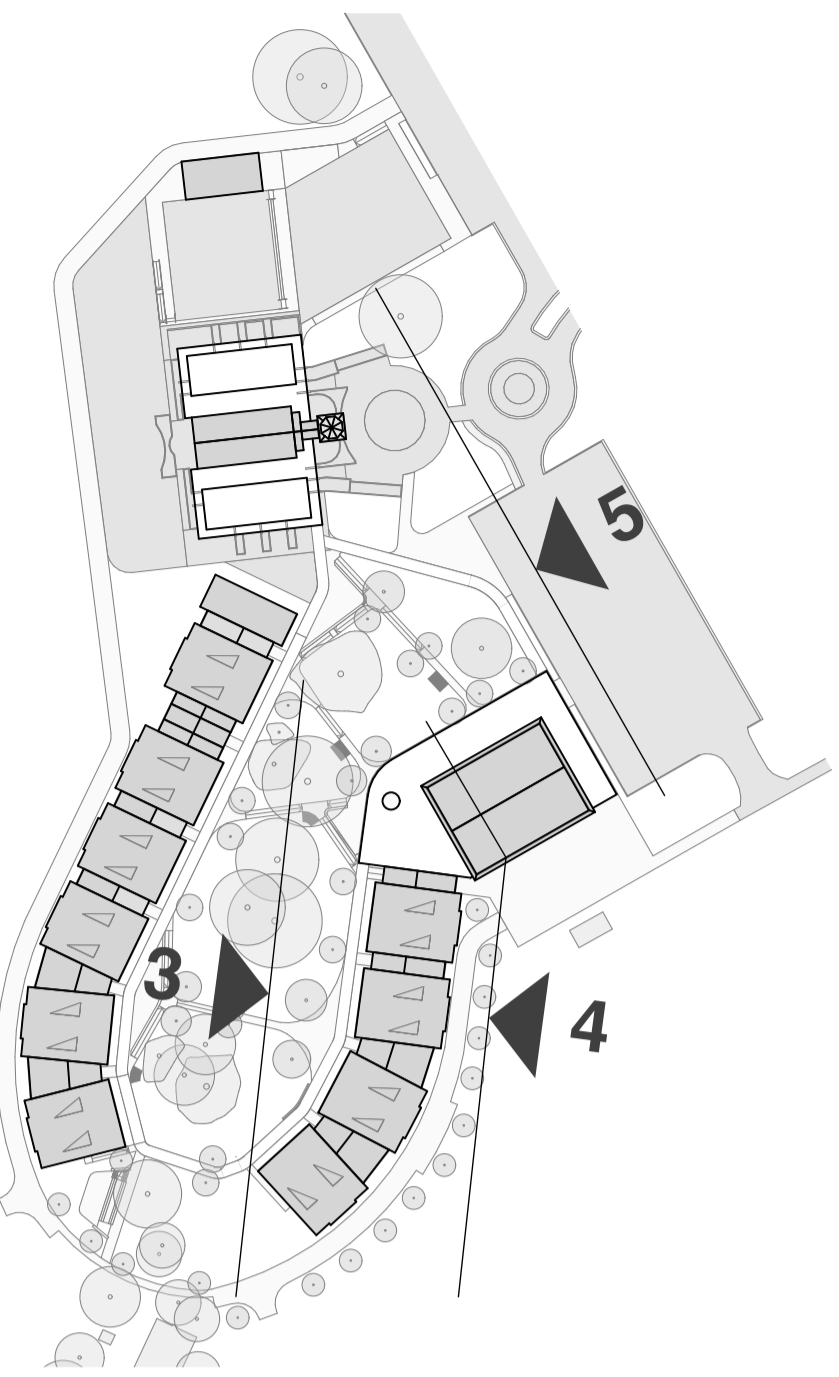
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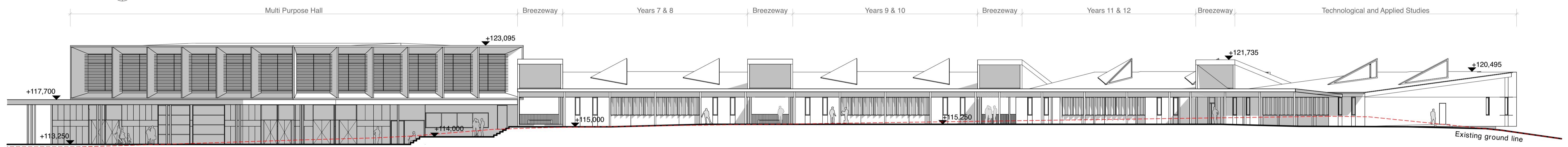
Drawing
Site Elevations - Sheet 01

Project No. 21019
Revision 3
Drawing No. A-020

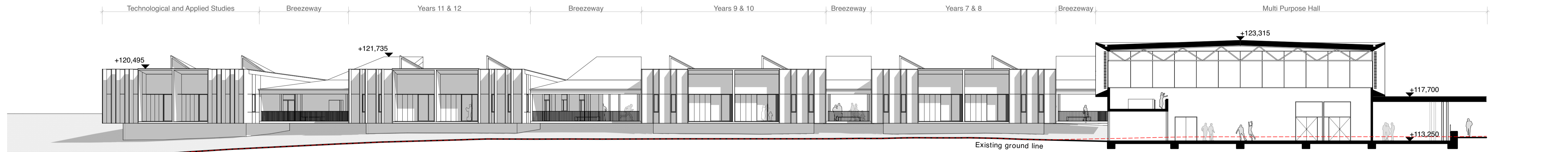


KEY PLAN

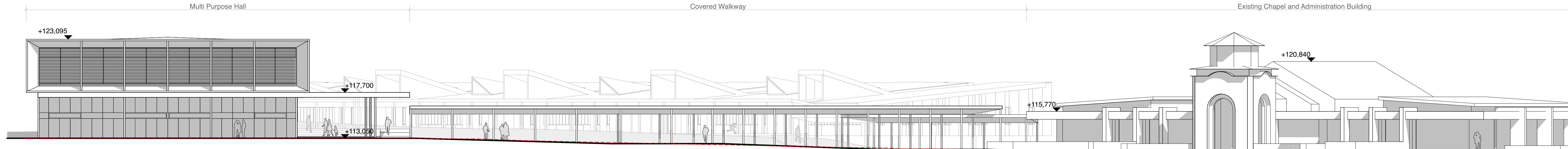
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3 West Elevation - Inner Facade
1:200
For reference to elevation,
refer to key plan



4 East Elevation - Outer Facade
1:200
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refer to key plan



5 East Elevation - Multipurpose Hall
1:200
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refer to key plan

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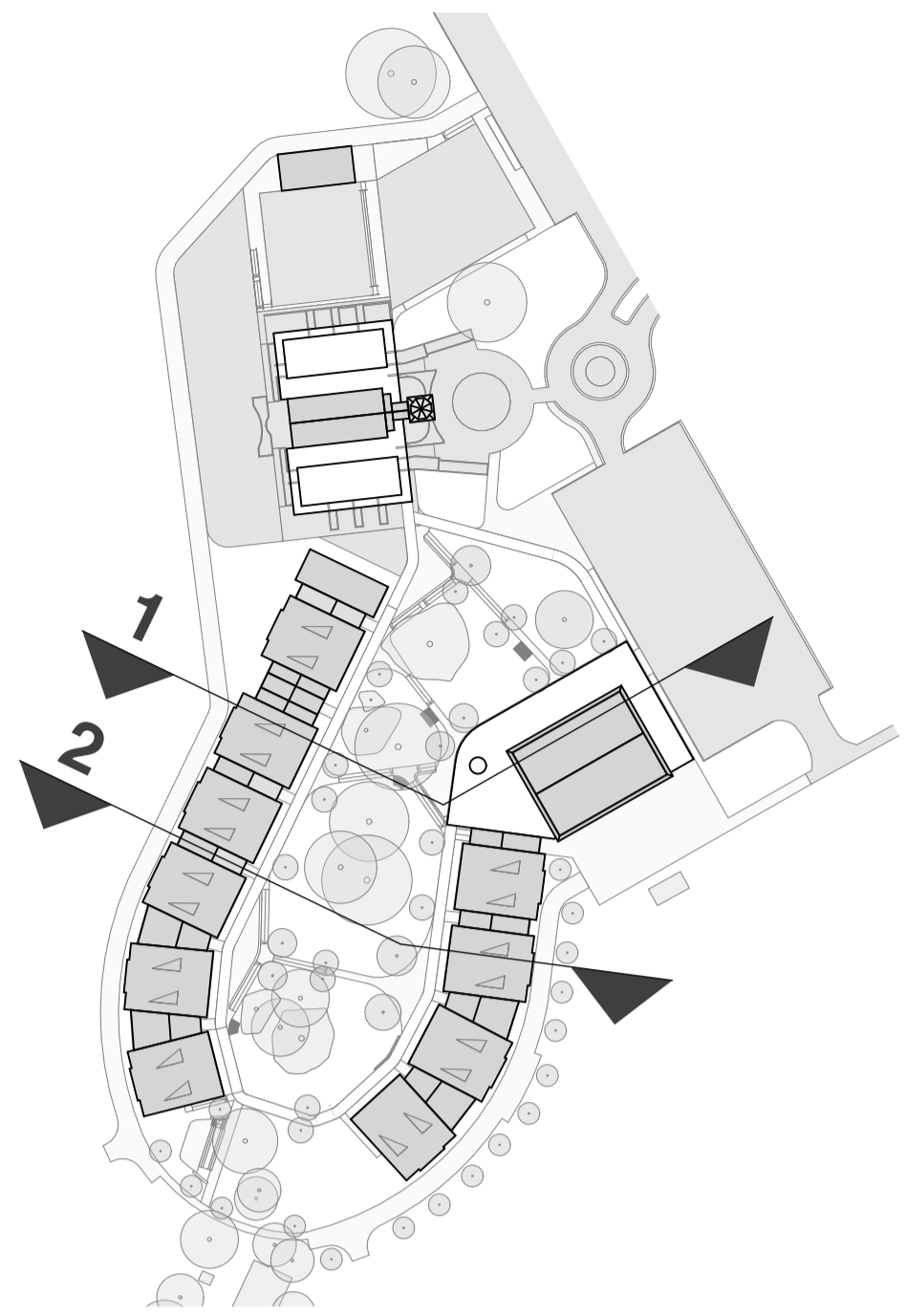
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3/11/2022
North

Drawn
SB, RS

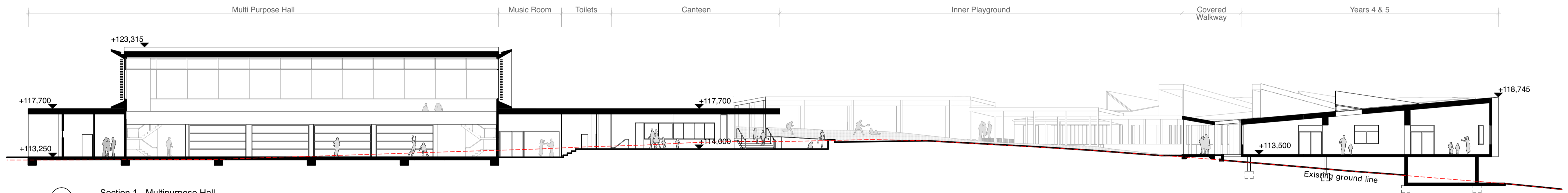
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Drawing
Site Elevations - Sheet 02
Project No. 21019
Revision 3
Drawing No. A-021

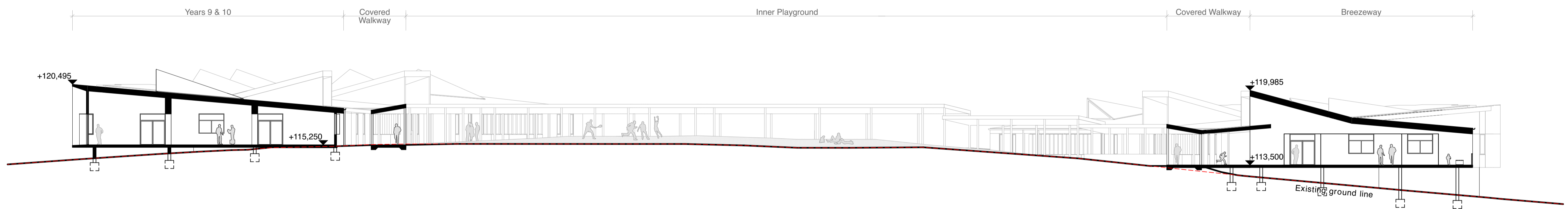


KEY PLAN

NOTE:
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ARCHITECT'S DRAWINGS.



1 Section 1 - Multipurpose Hall
1:200
For reference to elevation,
refer to key plan



2 Section 2 - Module
1:200
For reference to elevation,
refer to key plan

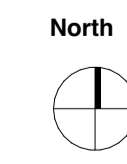
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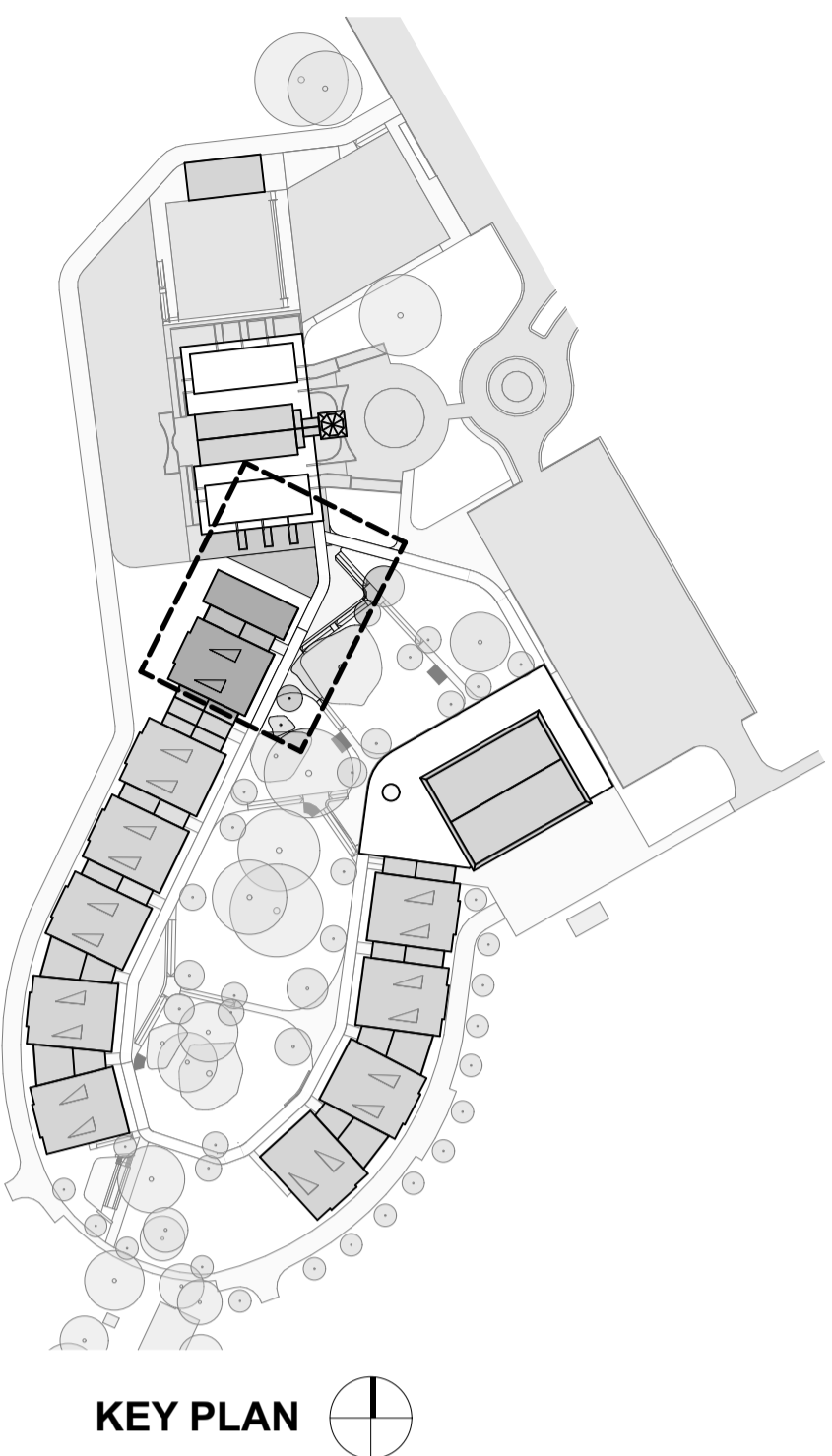
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Drawn
SB, RS

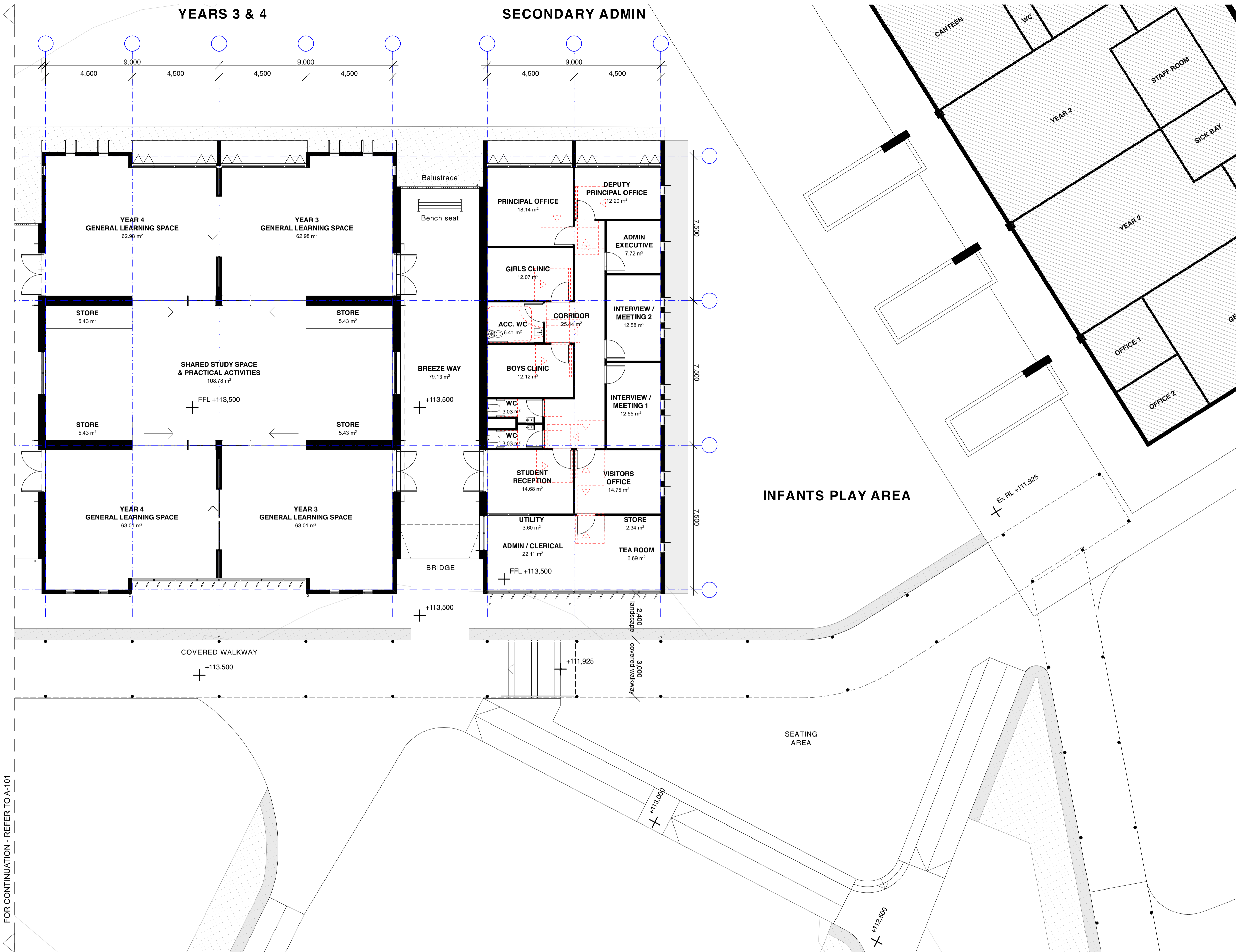
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Drawing
Site Sections

Project No. Revision Drawing No.
21019 3 A-030



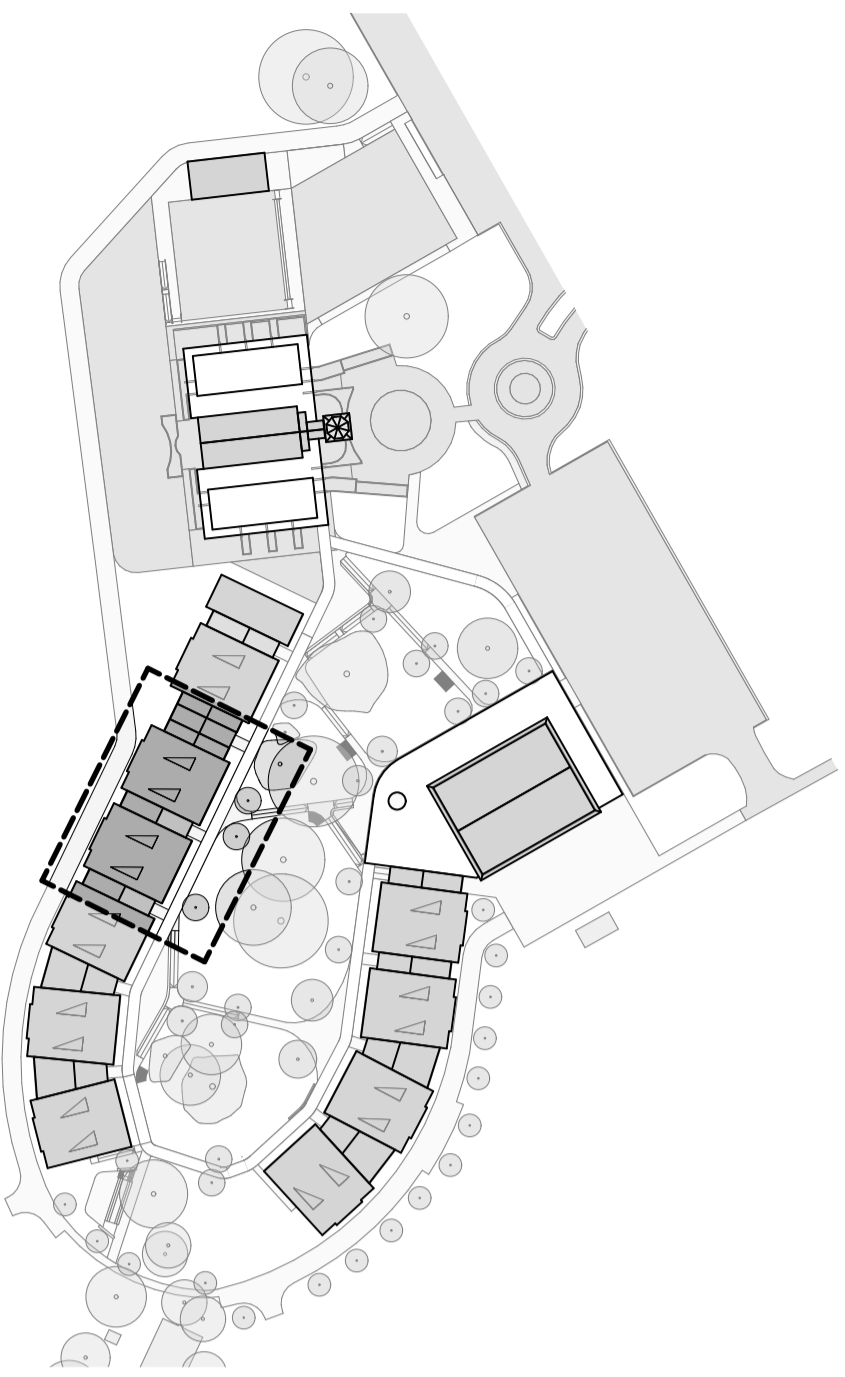
KEY PLAN



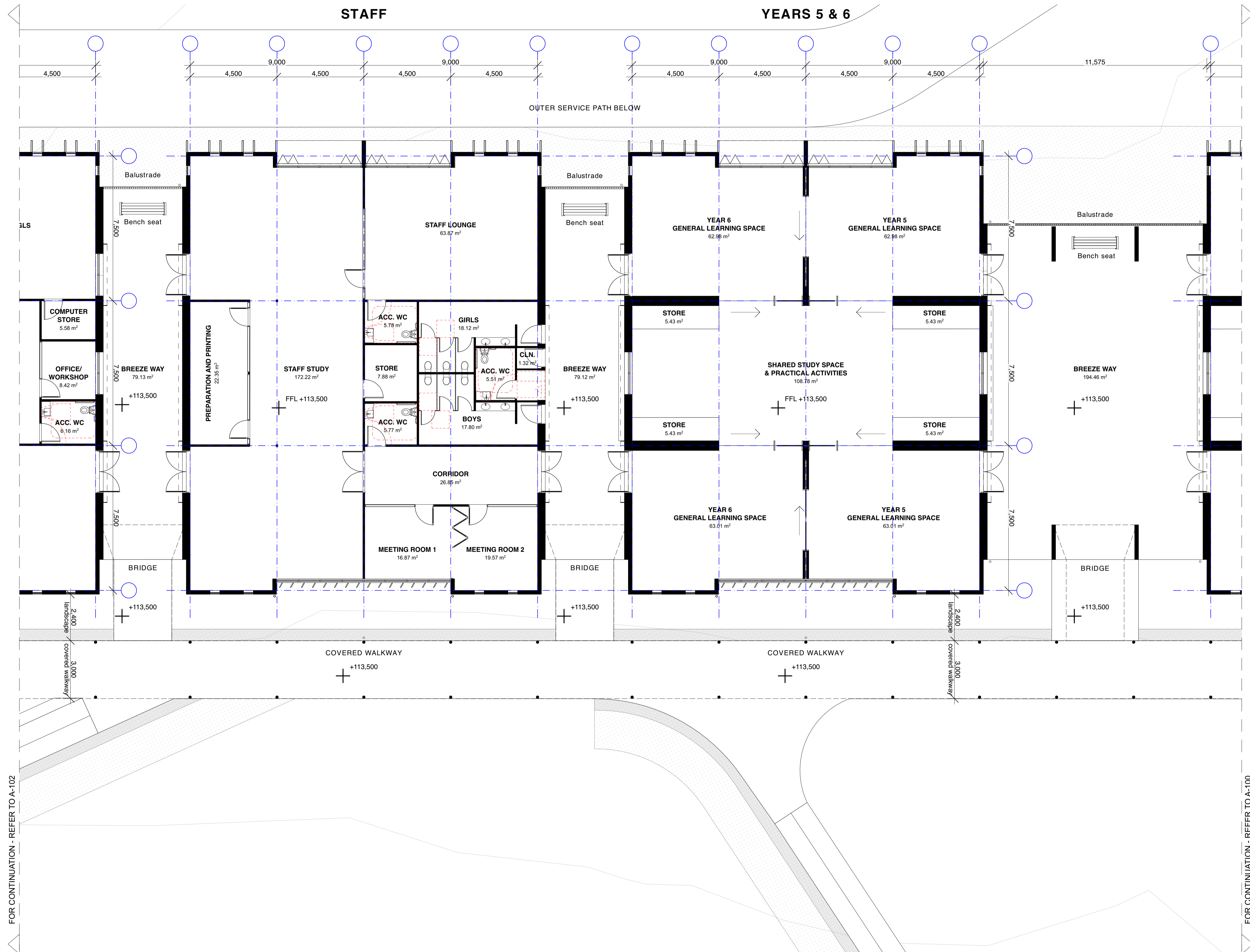
FOR CONTINUATION - REFER TO A-101

NOTE:
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<p>General Notes</p> <p>DO NOT SCALE FROM DRAWING. USE FIGURED DIMENSIONS ONLY. CHECK ALL DIMENSIONS ON SITE BEFORE ANY MANUFACTURE OR CONSTRUCTION.</p> <p>All dimensions are in millimetres unless stated otherwise.</p> <p>All architectural drawings are to be read in conjunction with the relevant consultant documents. All dimensions and levels are to be checked and verified on site prior to the commencement of work, shop drawings or fabrication of any components. Refer all discrepancies to the Architect for determination. Drawings are not to be scaled, use only figured dimensions. This drawing is copyright and must not be retained, copied or used without the permission of BKA Architecture. This document has been prepared for and on behalf of the clients noted on the drawing. BKA Architecture's responsibility is to these clients only and not to any third party who may rely on these documents.</p> <p>Nominated Architects (NSW) - John Baker 3552, John Kavanagh 5999</p>	<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Issue</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>21/9/2022</td> <td>For Coordination</td> </tr> <tr> <td>E</td> <td>17/10/2022</td> <td>For Client Review / Coordination</td> </tr> <tr> <td>1</td> <td>20/10/2022</td> <td>Development Application</td> </tr> <tr> <td>2</td> <td>26/10/2022</td> <td>Development Application</td> </tr> <tr> <td>3</td> <td>3/11/2022</td> <td>Development Application</td> </tr> </tbody> </table>	Rev	Date	Issue	D	21/9/2022	For Coordination	E	17/10/2022	For Client Review / Coordination	1	20/10/2022	Development Application	2	26/10/2022	Development Application	3	3/11/2022	Development Application	<p>Client</p> <p>St Sava College</p>	<p>Architect</p> <p>BKA Architecture</p> <p>SYDNEY Suite 104, 77 Dunning Ave, Roseberry, NSW 2018 T: +61 2 9318 9200 E: bka@bka.com.au W: www.bka.com.au</p> <p>NEWCASTLE Suite 4, 19 Bolton St, Newcastle NSW 2300 T: +61 2 4926 5563</p> <p>NORTH COAST Unit 1, 10 Station St, Bangalow NSW 2479 T: +61 2 6687 2712</p>	<p>Scale at A1</p> <p>1:100</p> <p>Date</p> <p>3/11/2022</p>	<p>North</p> <p>Drawn</p> <p>SB, RS</p>	<p>Project Address</p> <p>381 St Andrews Road, Varroville NSW</p> <p>Checked</p> <p>MK, JK</p> <p>Status</p> <p>Not for Construction</p>	<p>Drawing</p> <p>Secondary Admin and Years 3 & 4 Units</p> <p>Project No.</p> <p>21019</p> <p>Revision</p> <p>3</p> <p>Drawing No.</p> <p>A-100</p>
	Rev	Date	Issue																						
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KEY PLAN

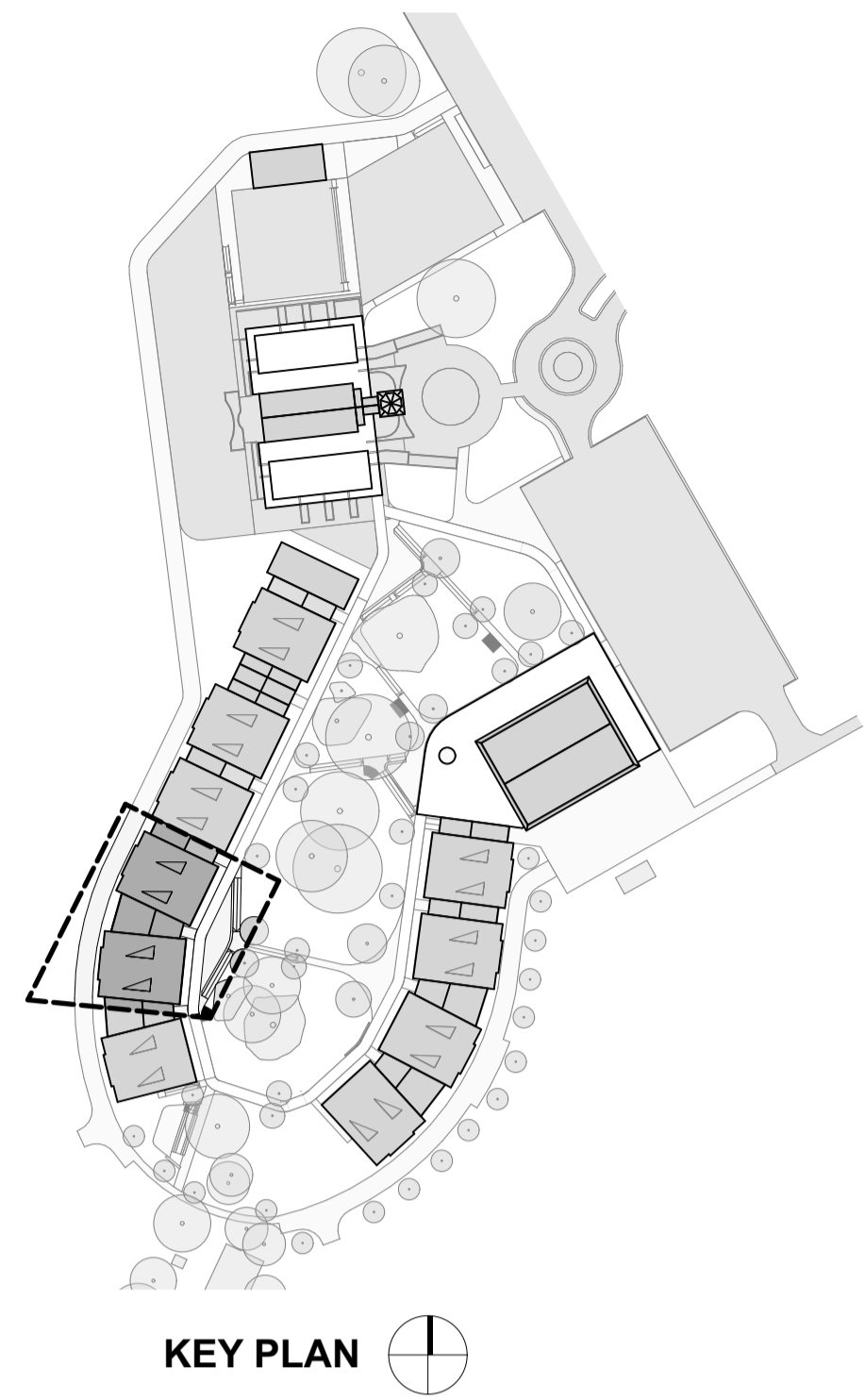


FOR CONTINUATION - REFER TO A-102

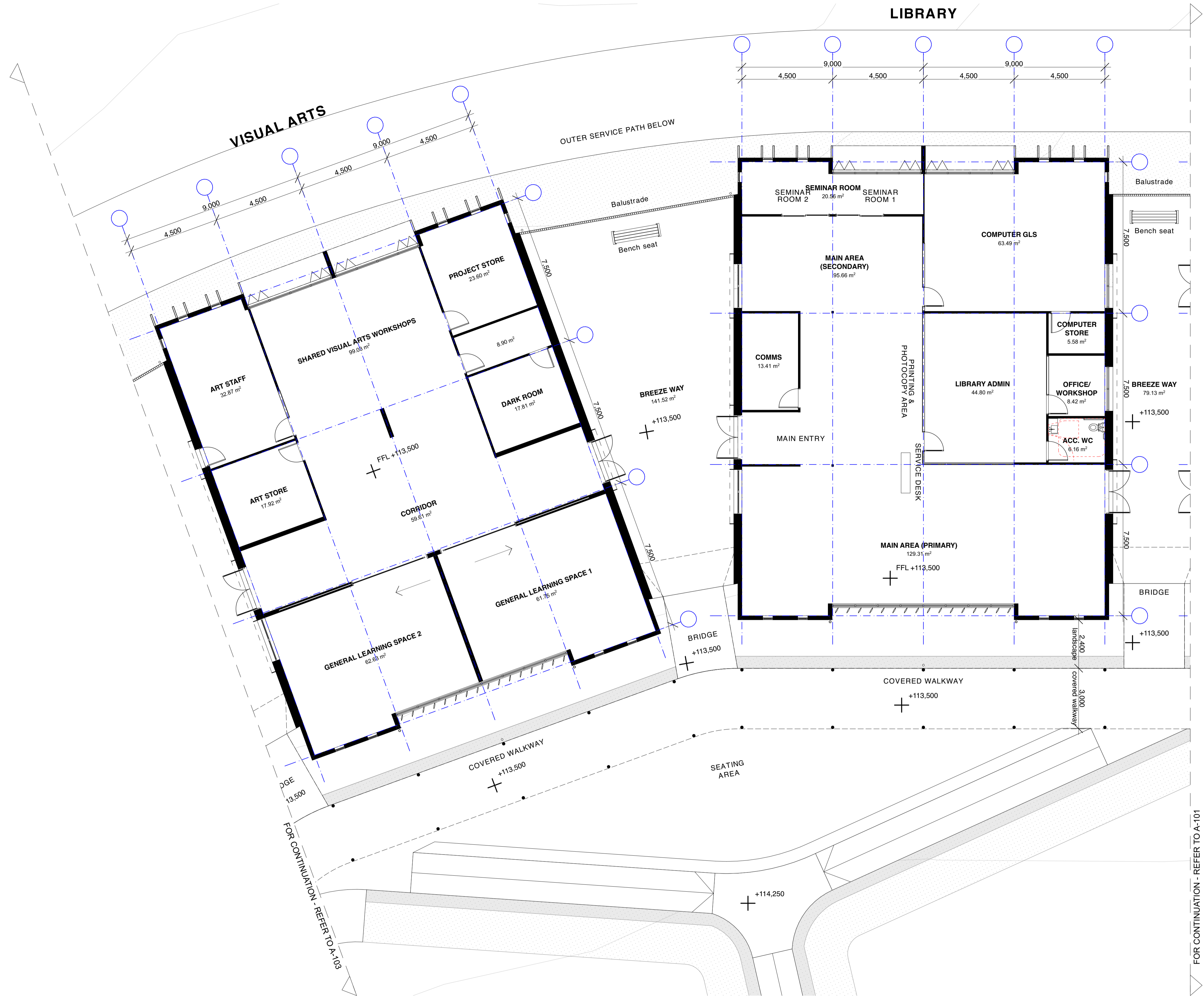
FOR CONTINUATION - REFER TO A-100

NOTE:
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KEY PLAN

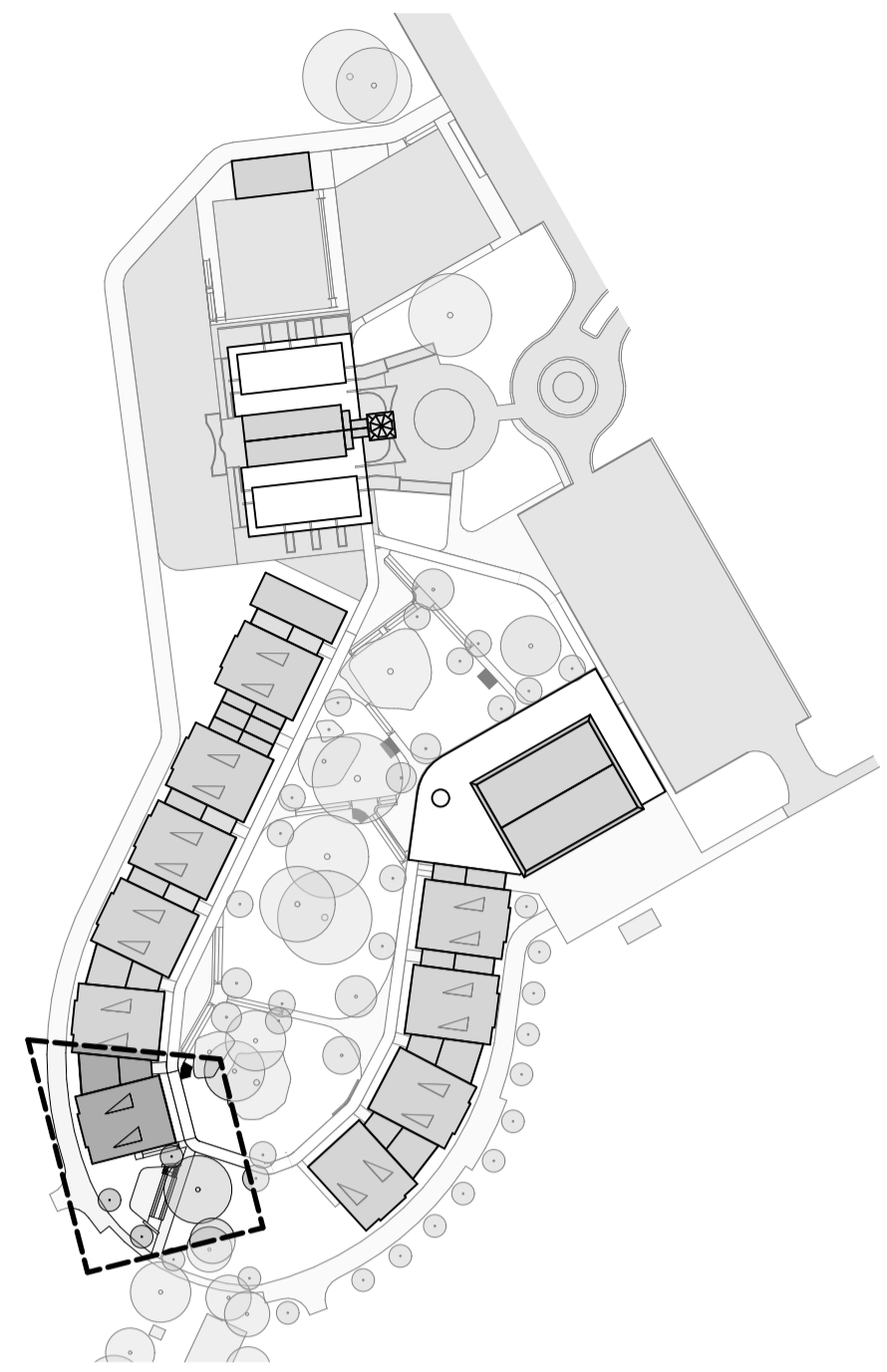


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ARCHITECT'S DRAWINGS.

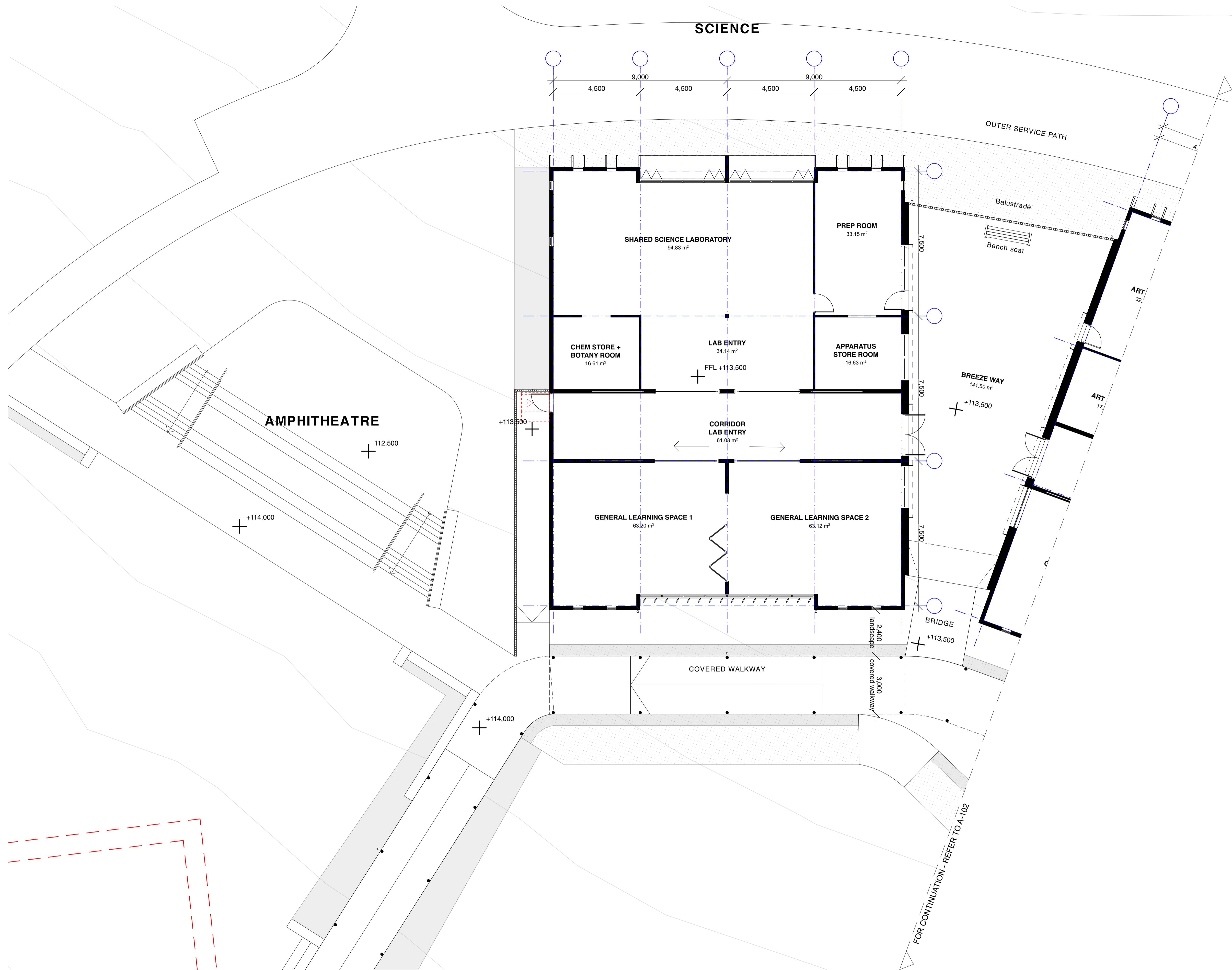
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Rev	Date	Issue																						
D	21/9/2022	For Coordination																						
E	17/10/2022	For Client Review / Coordination																						
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FOR CONTINUATION - REFER TO A-101

FOR CONTINUATION - REFER TO A-103



KEY PLAN



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Nominated Architects (NSW) - John Baker 3552, John Kavanagh 5999	

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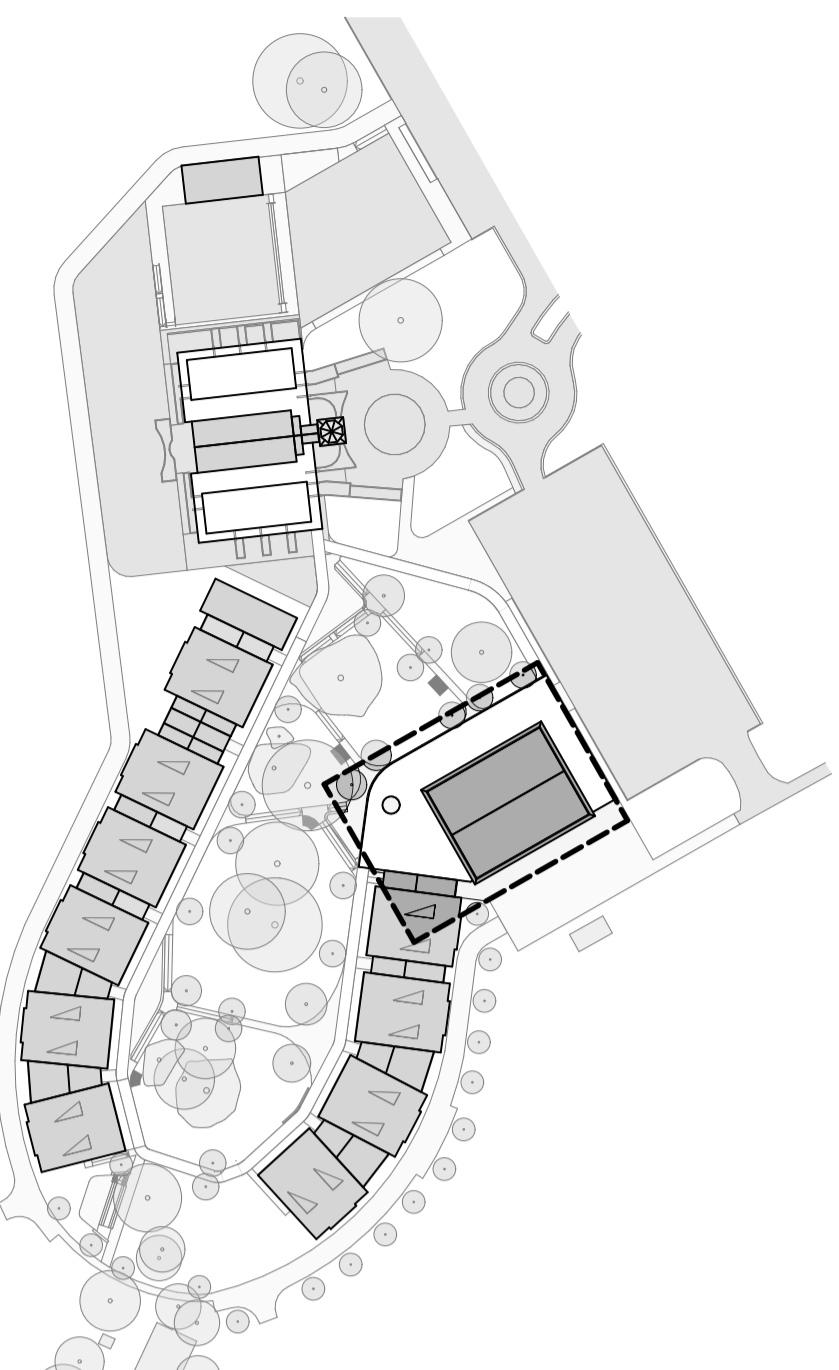
Client	St Sava College
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Architect	BKA Architecture
SYDNEY	Suite 104, 77 Dunning Ave, Rosebery, NSW 2018
NEWCASTLE	Suite 4 19 Bolton St, Newcastle NSW 2300
NORTH COAST	Unit 1 10 Station St, Bangalow NSW 2479
T: +61 2 9318 9200	T: +61 2 4926 5563
E: bka@bka.com.au	T: +61 2 6687 2712
W: www.bka.com.au	

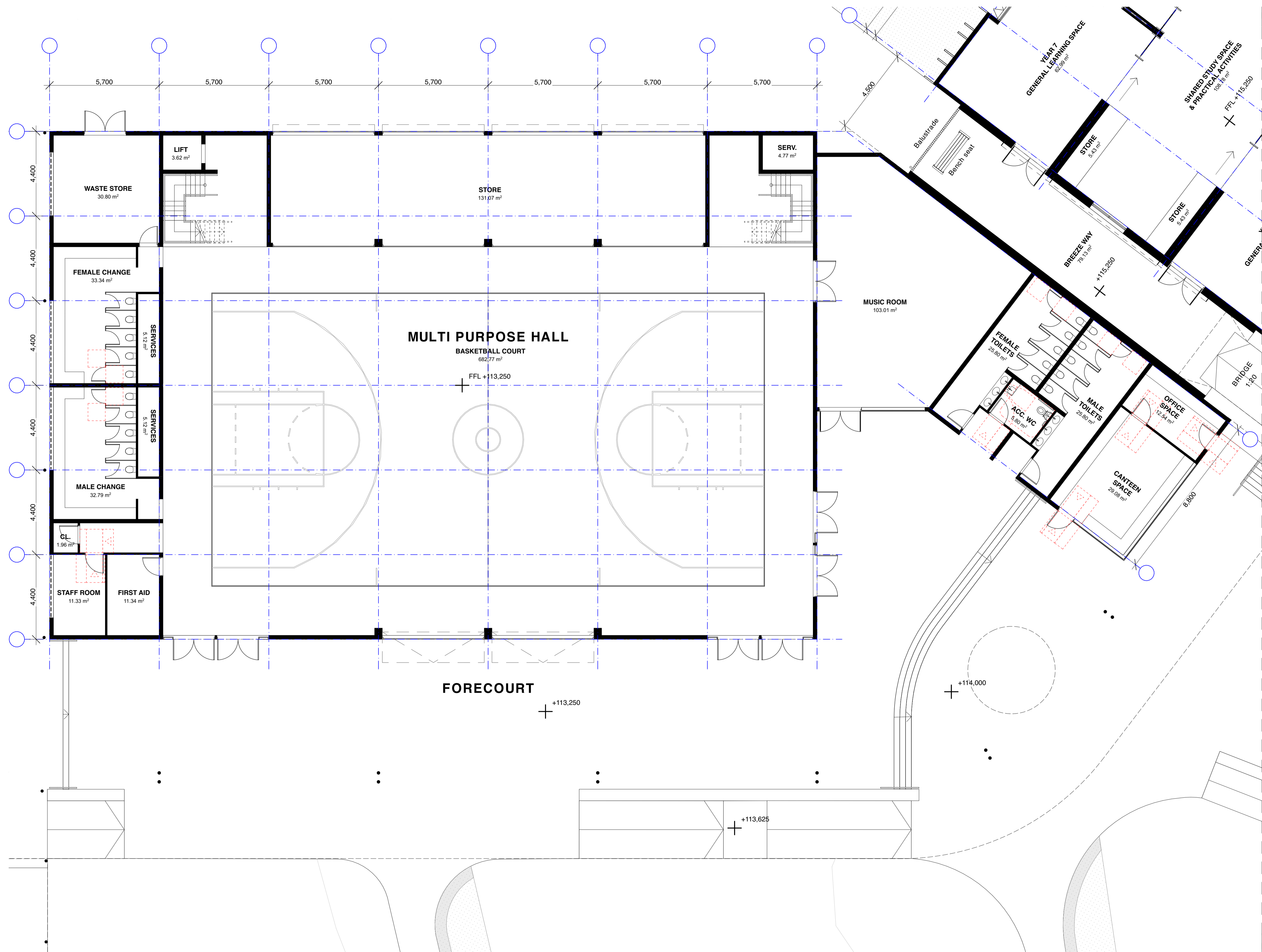
Scale at A1	1:100
Date	3/11/2022
North	
Drawn	SB, RS

Project Address	381 St Andrews Road, Varroville NSW
Checked	MK, JK
Status	Not for Construction

Drawing	Science Unit and Amphitheatre	
Project No.	Revision	Drawing No.
21019	3	A-103

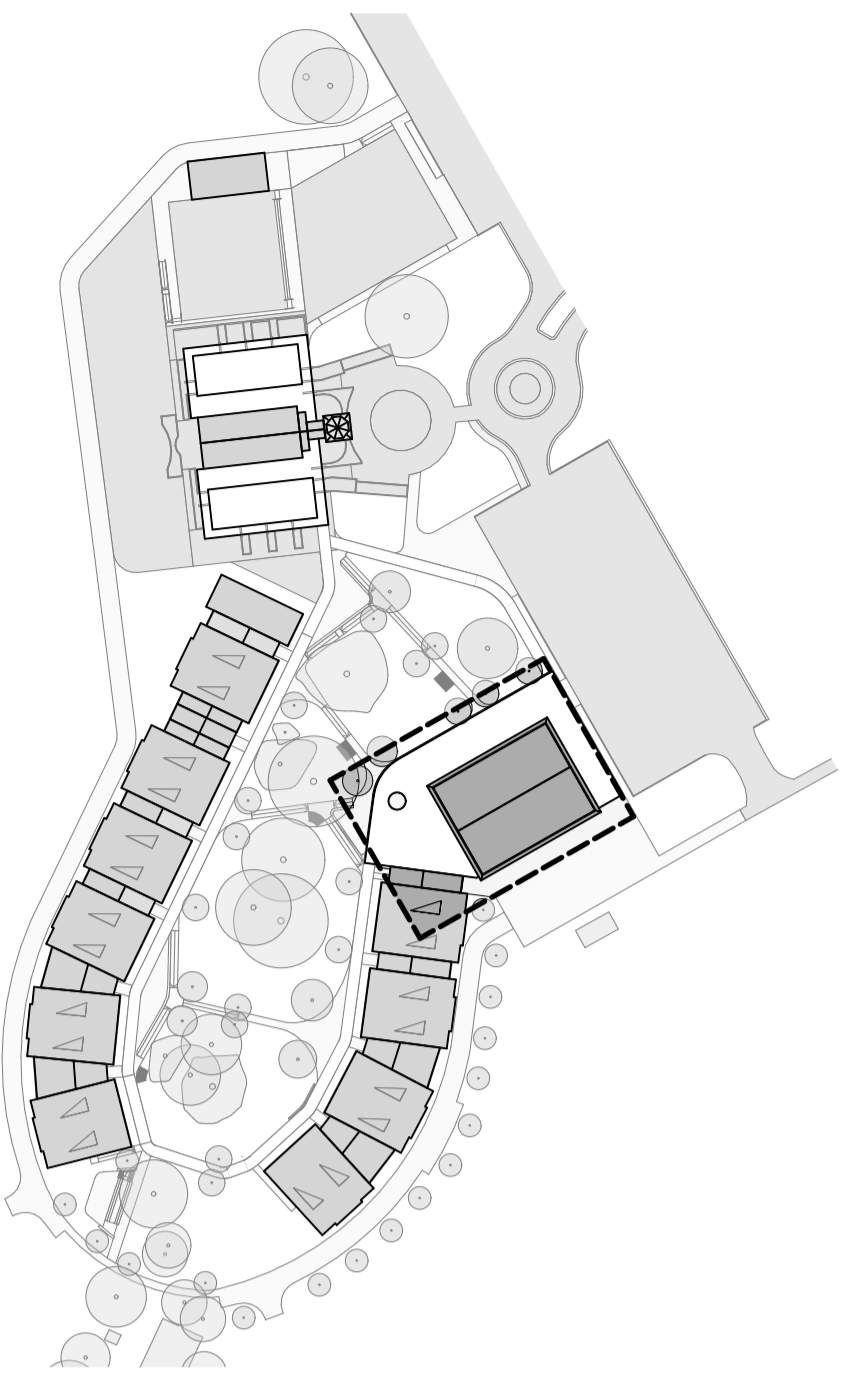


KEY PLAN

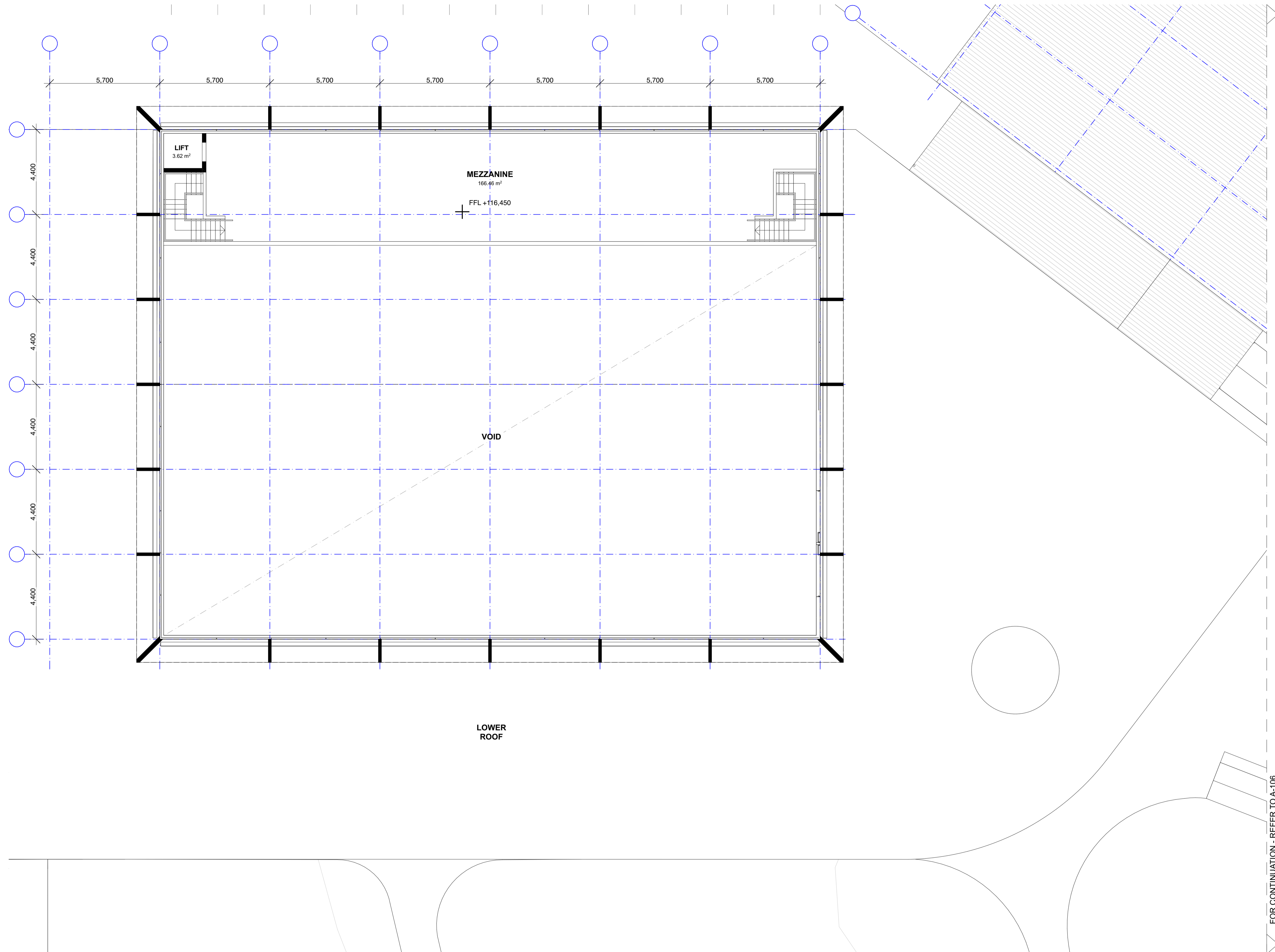


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	<p>FOR CONTINUATION - REFER TO A-105</p>						



KEY PLAN



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Client
St Sava College

Architect
BKA Architecture
SYDNEY Suite 104, 77 Dunning Ave, Rosebery, NSW 2018
NEWCASTLE Suite 4, 19 Bolton St, Newcastle NSW 2300
NORTH COAST Unit 1, 10 Station St, Bangalow NSW 2479
T: +61 2 9318 9200 E: bka@bka.com.au W: www.bka.com.au
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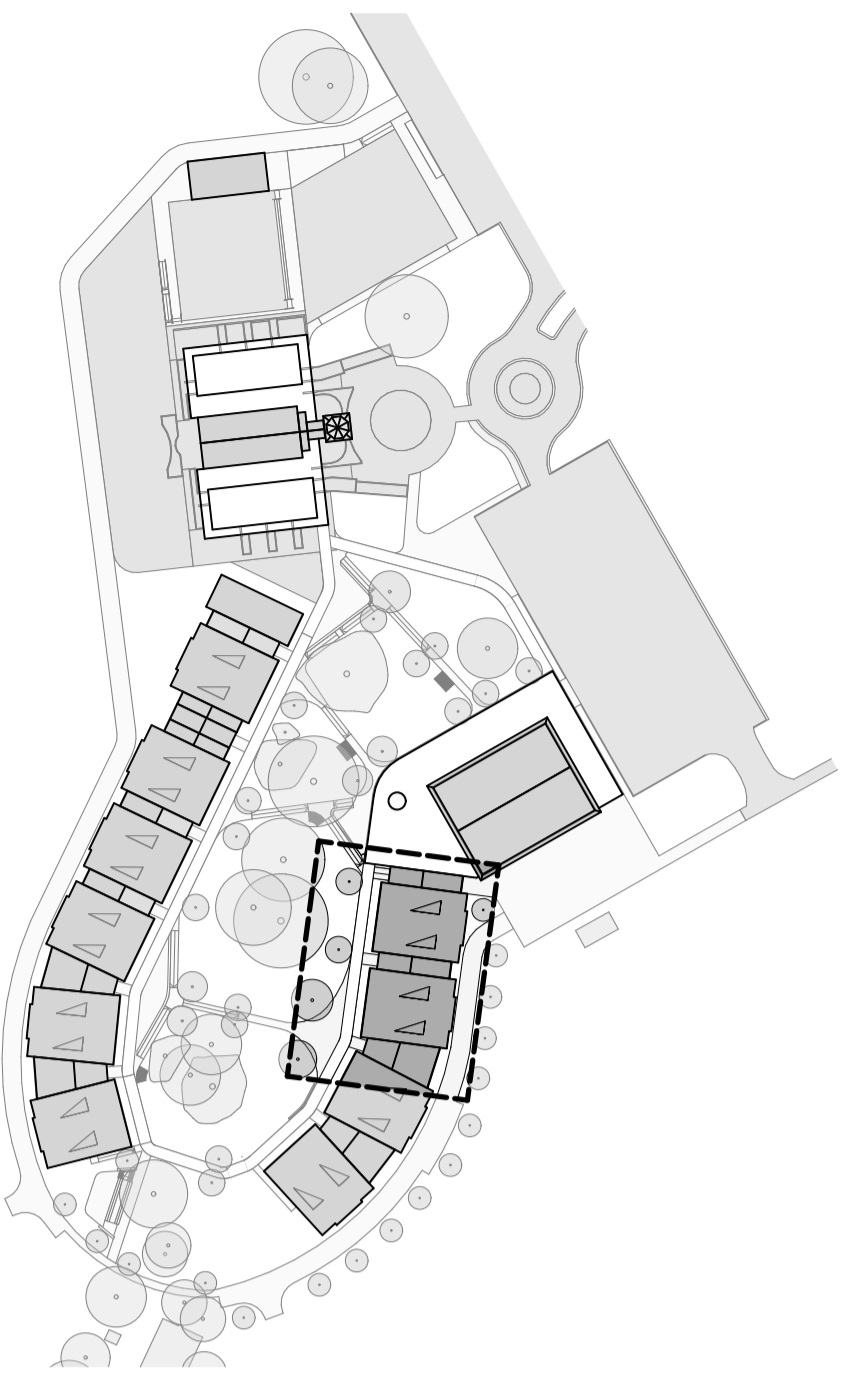
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Date
3/11/2022
North

Drawn
SB, RS

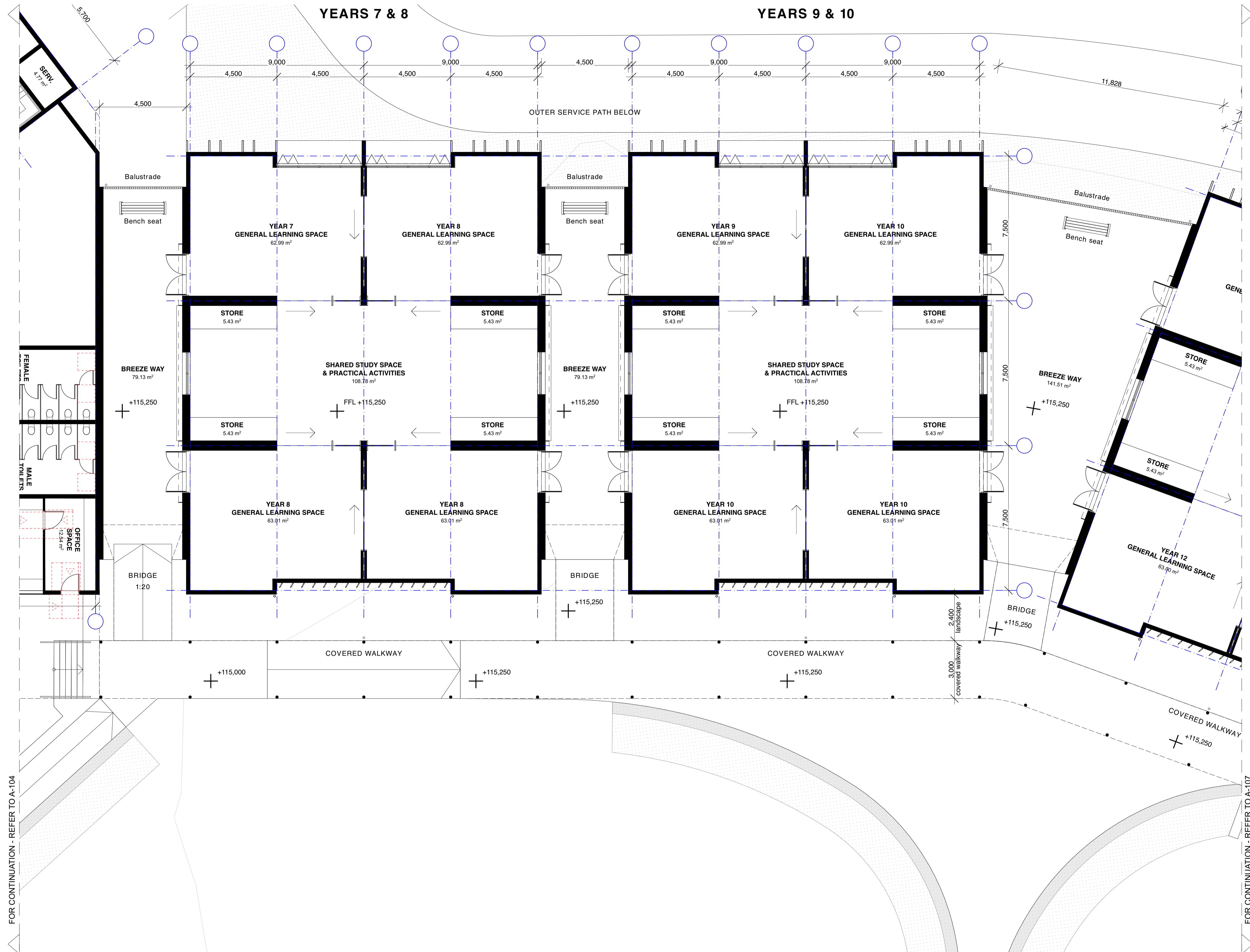
Project Address
381 St Andrews Road,
Varroville NSW
Checked MK, JK
Status Not for Construction

Drawing
Multi Purpose Hall - Mezzanine
Project No. 21019
Revision 3
Drawing No. A-105

FOR CONTINUATION - REFER TO A-105



KEY PLAN

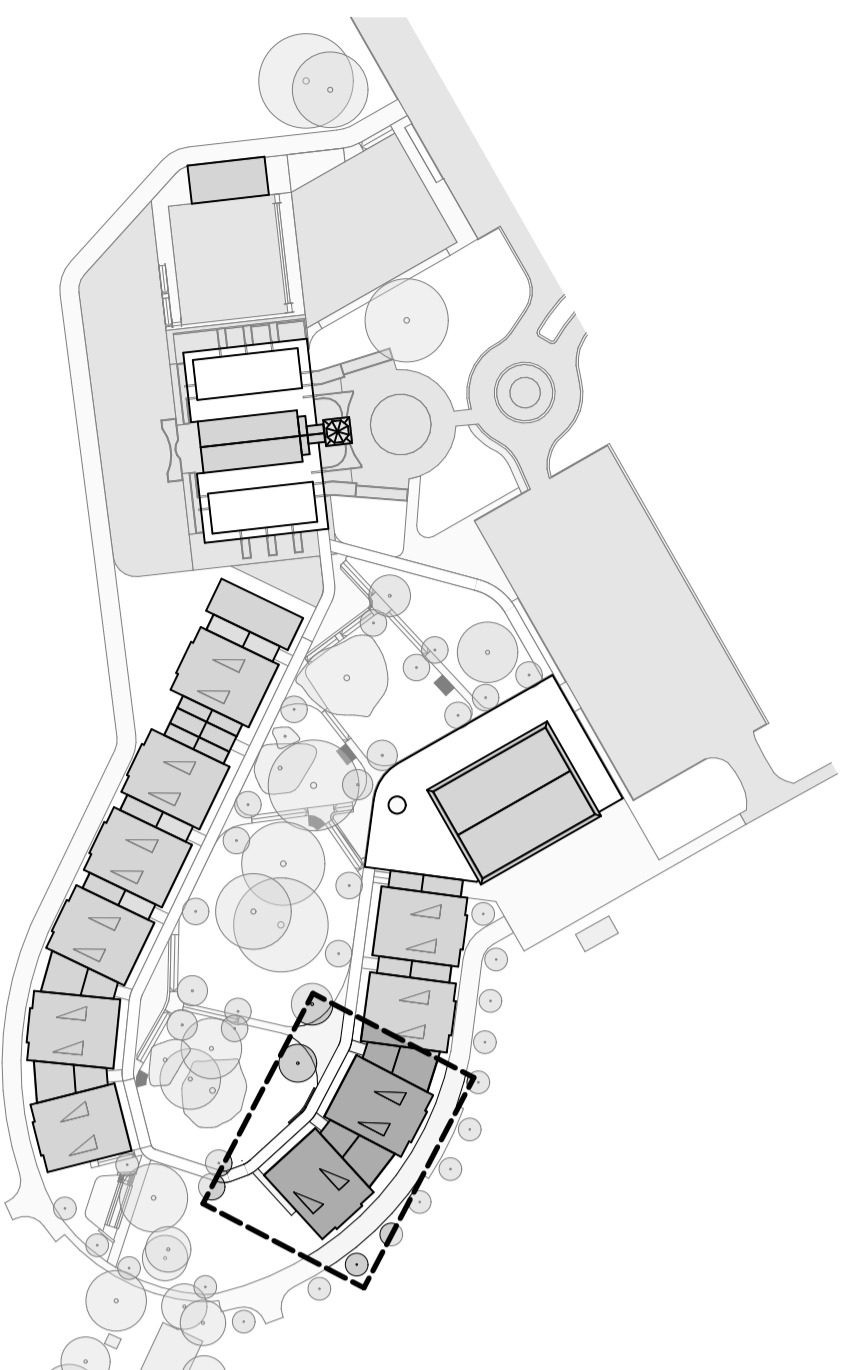


FOR CONTINUATION - REFER TO A-104

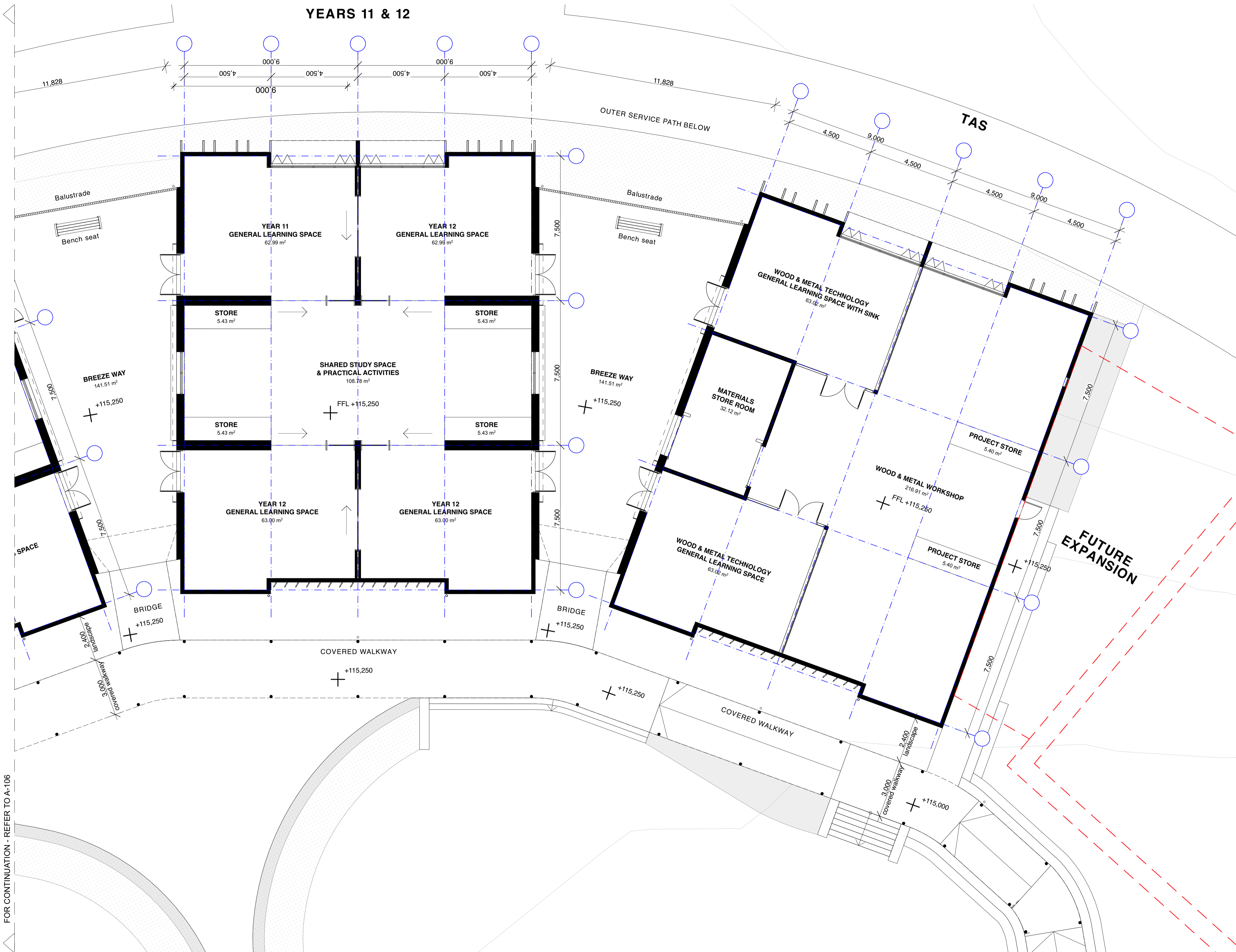
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KEY PLAN



FOR CONTINUATION - REFER TO A-106

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Nominated Architects (NSW) - John Baker 3552, John Kavanagh 5999

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Client
St Sava College

Architect
BKA Architecture
SYDNEY Suite 104, 77 Dunning Ave, Rosebery, NSW 2018
NEWCASTLE Suite 4, 19 Bolton St, Newcastle NSW 2300
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T: +61 2 9318 9200 E: bka@bka.com.au W: www.bka.com.au
T: +61 2 4926 5563 T: +61 2 6687 2712

Scale at A1
1:100

Date
3/11/2022

North
[North Arrow]

Drawn
SB, RS

Project Address
381 St Andrews Road, Varroville NSW

Checked
MK, JK

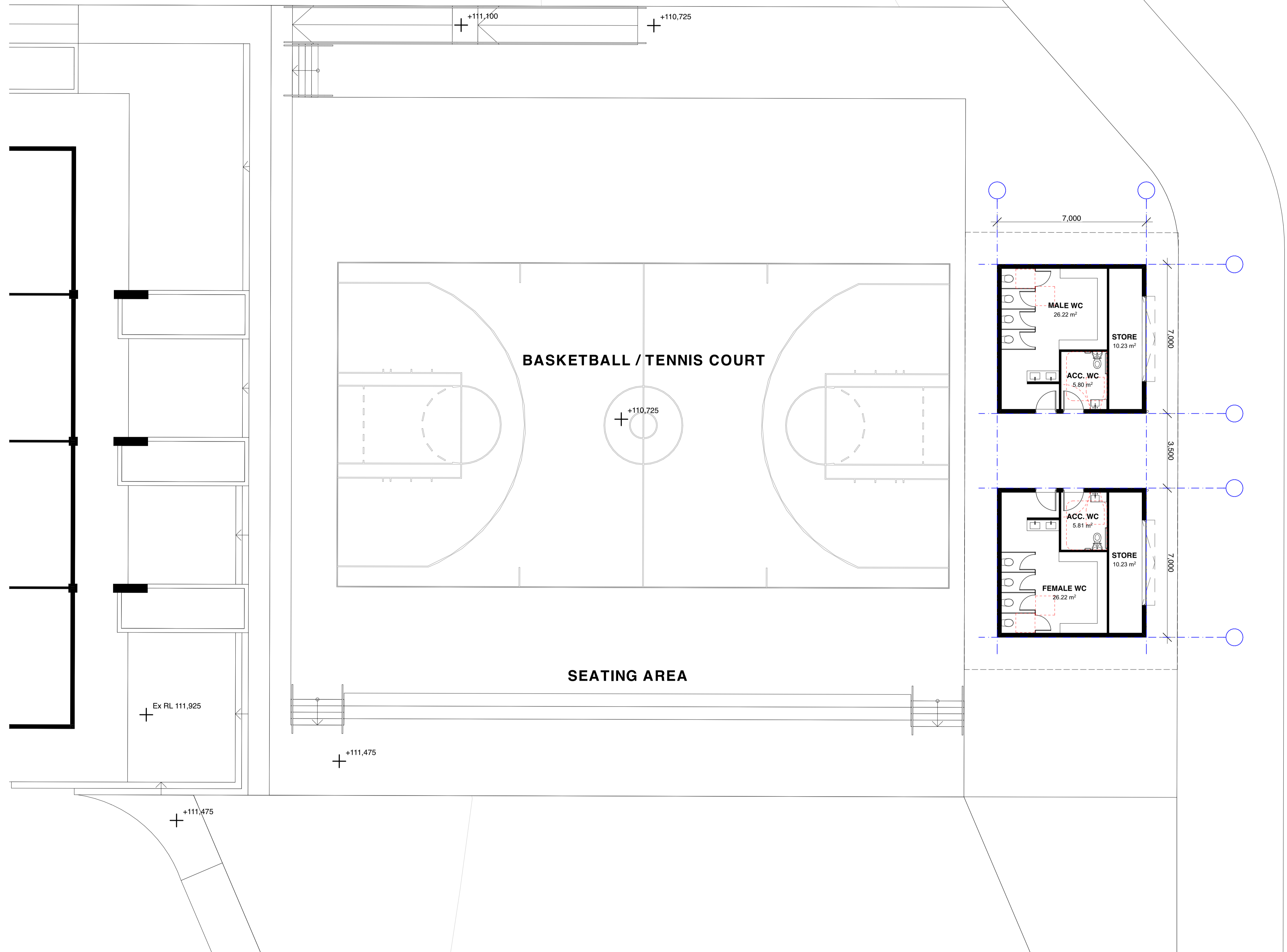
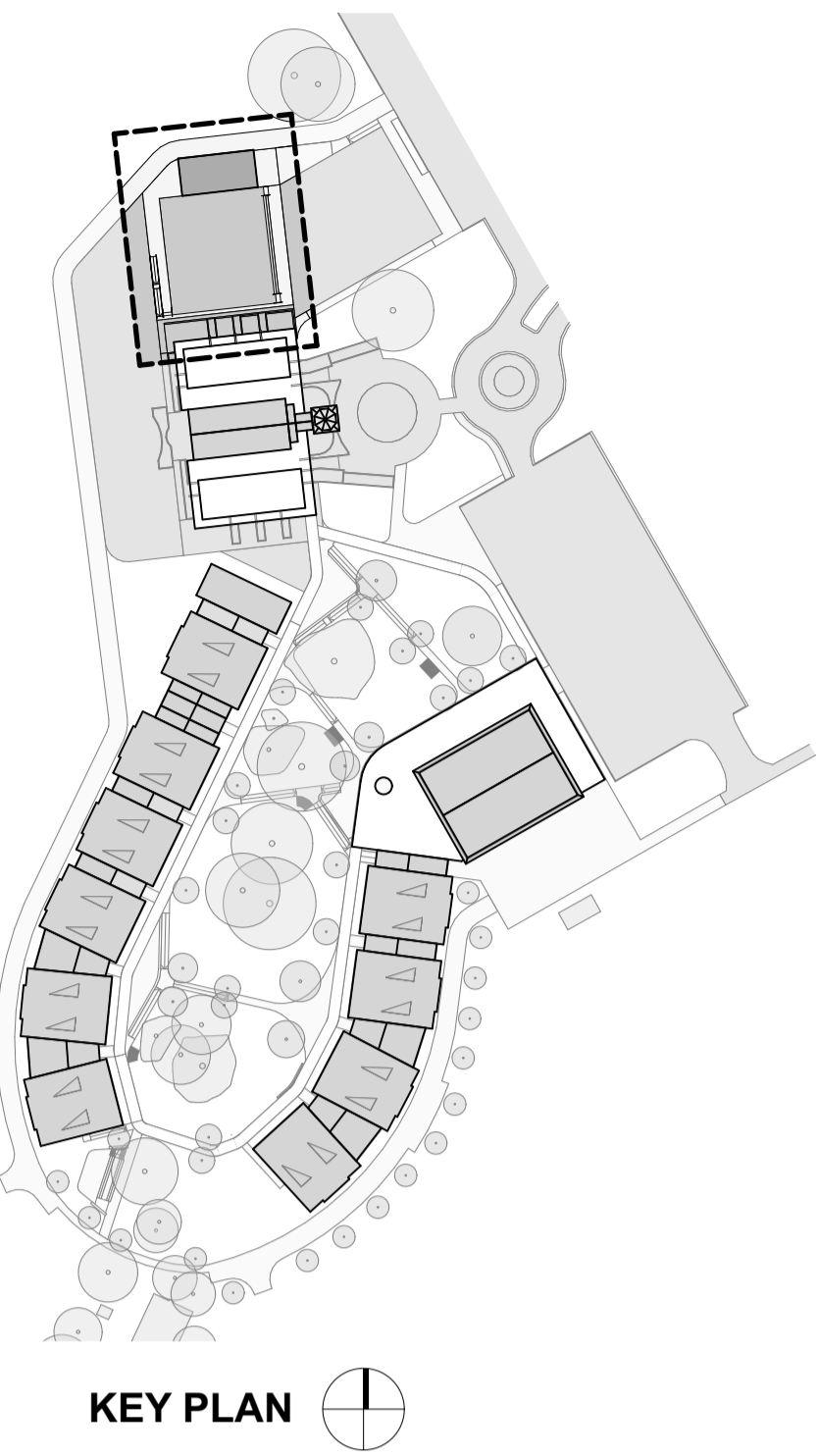
Status
Not for Construction

Drawing
Years 11 & 12 and TAS Units

Project No.
21019

Revision
3

Drawing No.
A-107



NOTE:
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Client
 St Sava College

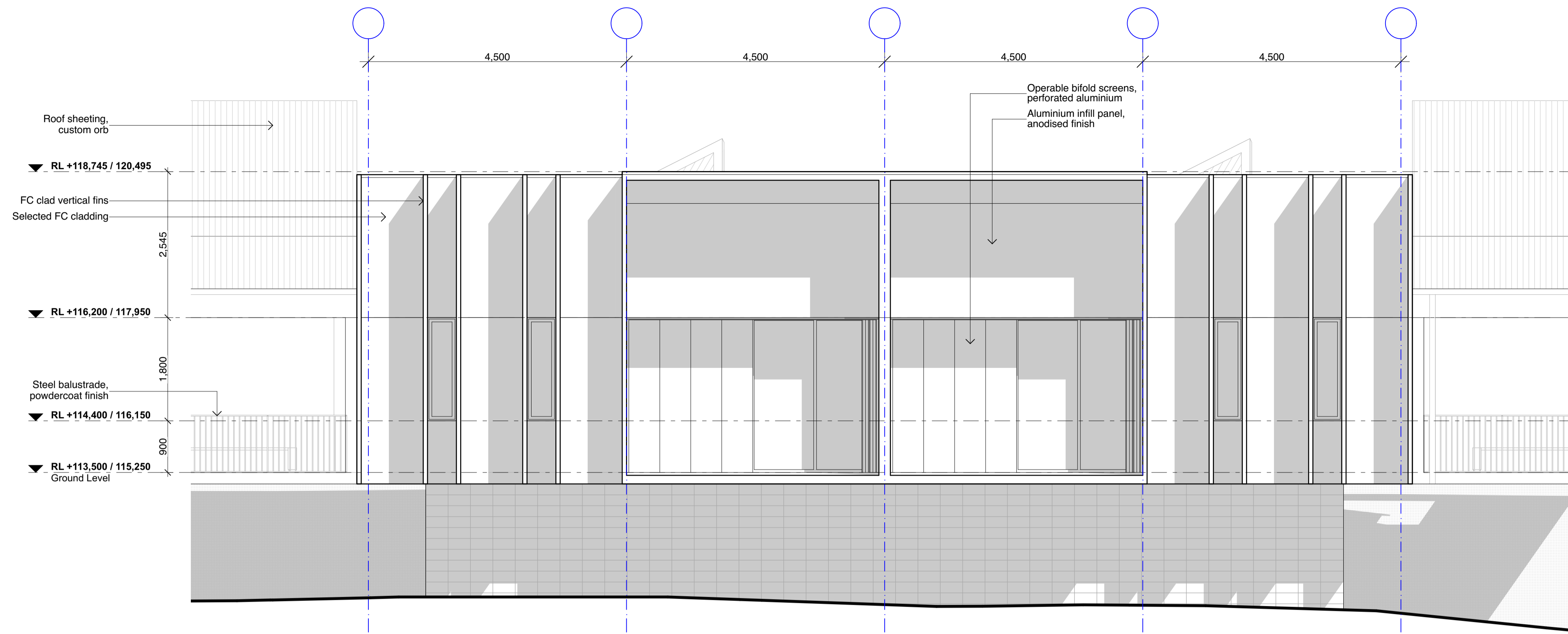
Architect
BKA Architecture
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 NEWCASTLE Suite 4, 19 Bolton St, Newcastle NSW 2300
 NORTH COAST Unit 1, 10 Station St, Bangalow NSW 2479
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Scale at A1
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Date
 3/11/2022
North

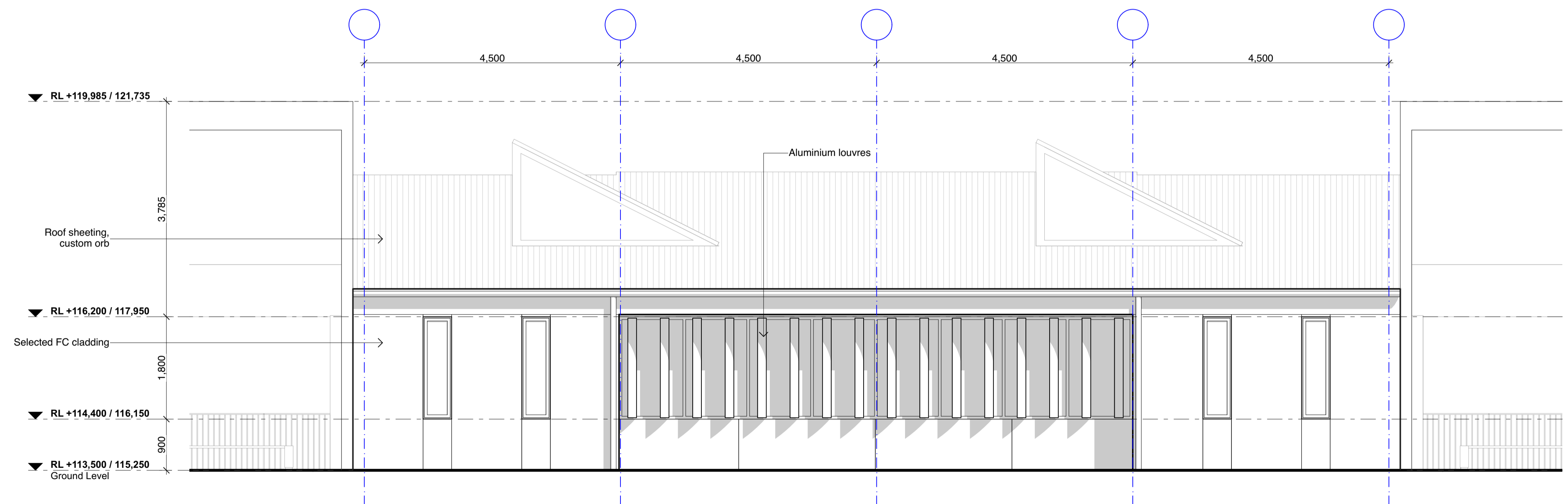
Drawn
 SB, RS

Project Address
 381 St Andrews Road,
 Varroville NSW
Checked MK, JK
Status Not for Construction

Drawing
Amenities Block
Project No. 21019
Revision 3
Drawing No. A-108



1 Typical Elevation - Outer Facade
1:50



2 Typical Elevation - Inner Facade
1:50

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Nominated Architects (NSW) - John Baker 3552, John Kavanagh 5999

Rev	Date	Issue
D	21/9/2022	For Coordination
E	17/10/2022	For Client Review / Coordination
1	20/10/2022	Development Application
2	26/10/2022	Development Application
3	3/11/2022	Development Application

Client
St Sava College

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E: bka@bka.com.au
W: www.bka.com.au

Scale at A1
1:50

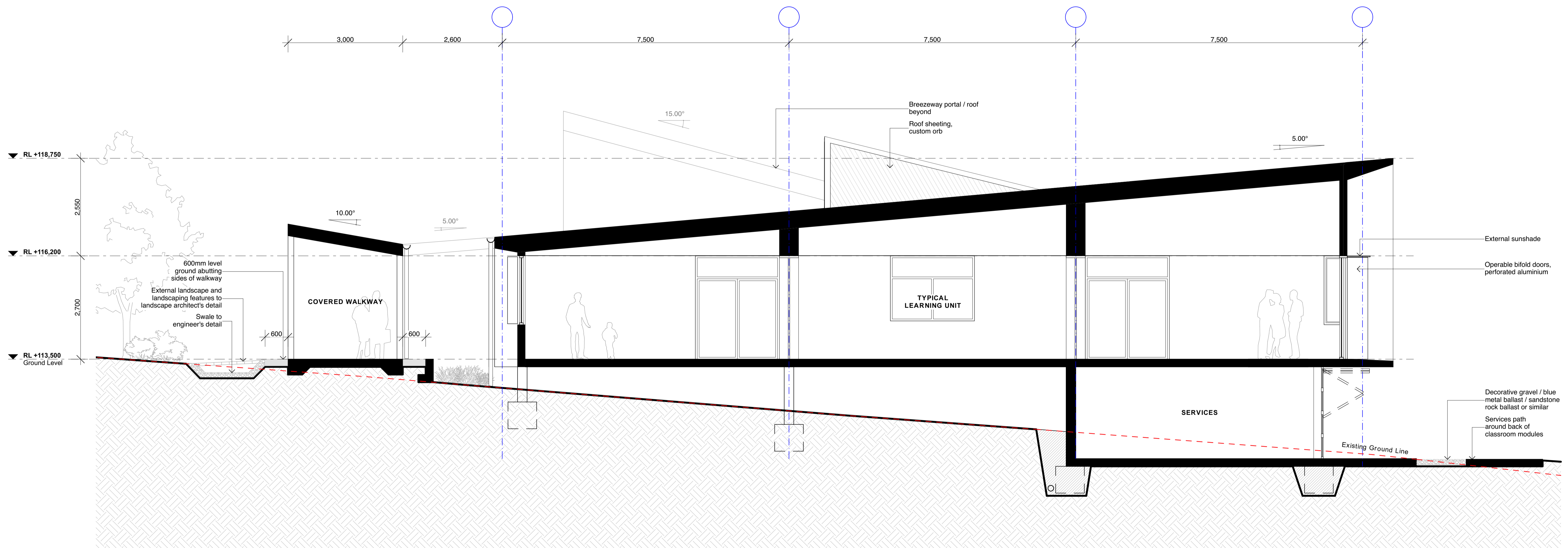


Project Address
381 St Andrews Road,
Varroville NSW

Checked Status
MK, JK Not for Construction

Drawing
Typical Module - Elevations

Project No. Revision Drawing No.
21019 3 A-200



General Notes
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 W: www.bka.com.au

Scale at A1
 1:50
 Date
 3/11/2022

North

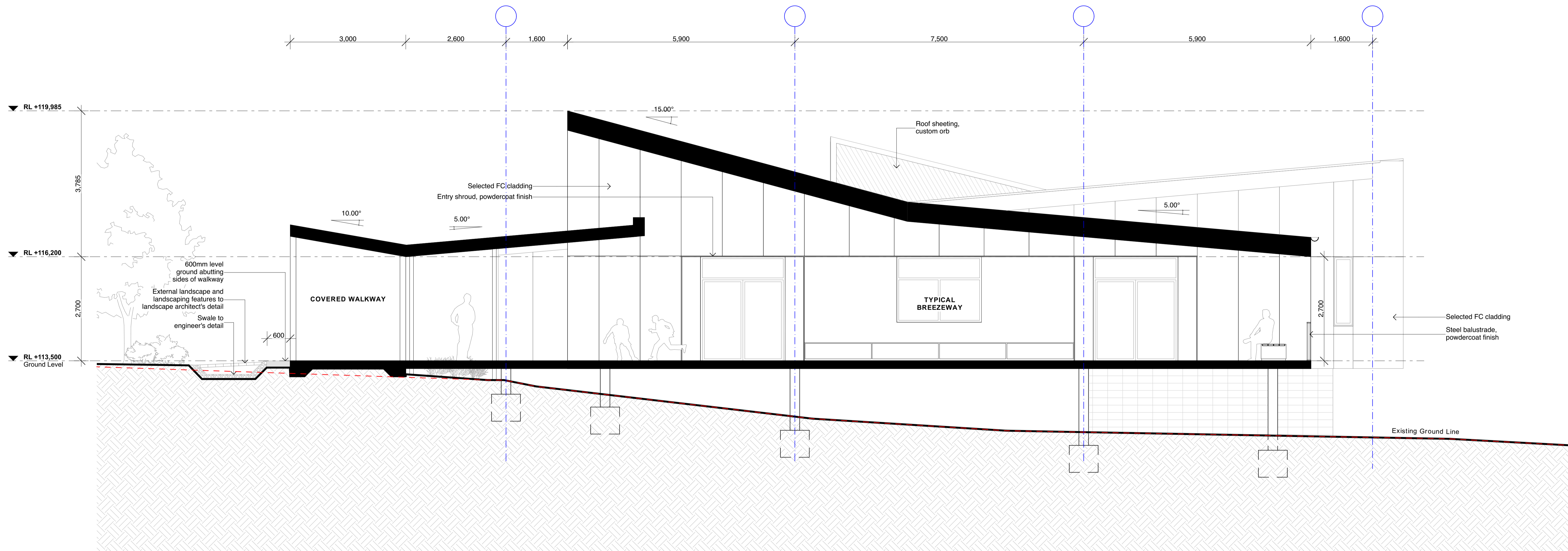
 Drawn
 SB, RS

Project Address
 381 St Andrews Road,
 Varroville NSW

Checked Status
 MK, JK Not for Construction

Drawing
Typical Module - Section

Project No. Revision Drawing No.
21019 3 A-300



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 E: bka@bka.com.au W: www.bka.com.au

Scale at A1
 1:50
 Date
 3/11/2022

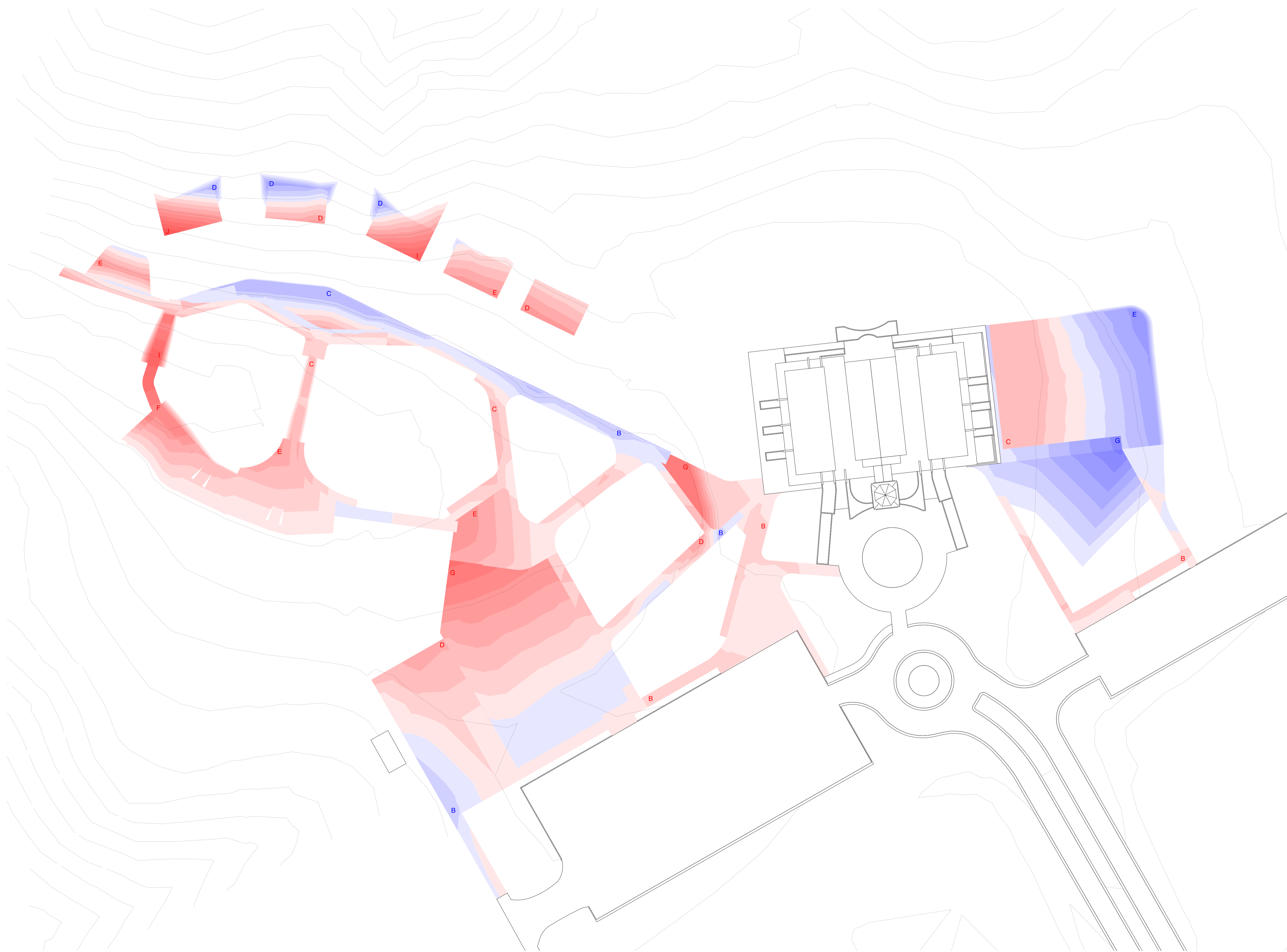


Drawn
 SB, RS

Project Address
 381 St Andrews Road,
 Varroville NSW

Checked Status
 MK, JK Not for Construction

Drawing
Typical Breezeway - Section
 Project No. **21019** Revision **3** Drawing No. **A-301**



TOTAL CUT = 3,094.83 m³
TOTAL FILL = 1,019.43 m³

CUT DEPTH		FILL DEPTH	
A	0 - 200mm	A	0 - 200mm
B	200 - 400mm	B	200 - 400mm
C	400 - 600mm	C	400 - 600mm
D	600 - 800mm	D	600 - 800mm
E	800 - 1000mm	E	800 - 1000mm
F	1000 - 1200mm	F	1000 - 1200mm
G	1200 - 1400mm	G	1200 - 1400mm
H	1400 - 1600mm		
I	1600 - 1800mm		
J	1800 - 2000mm		

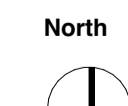
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Scale at A1
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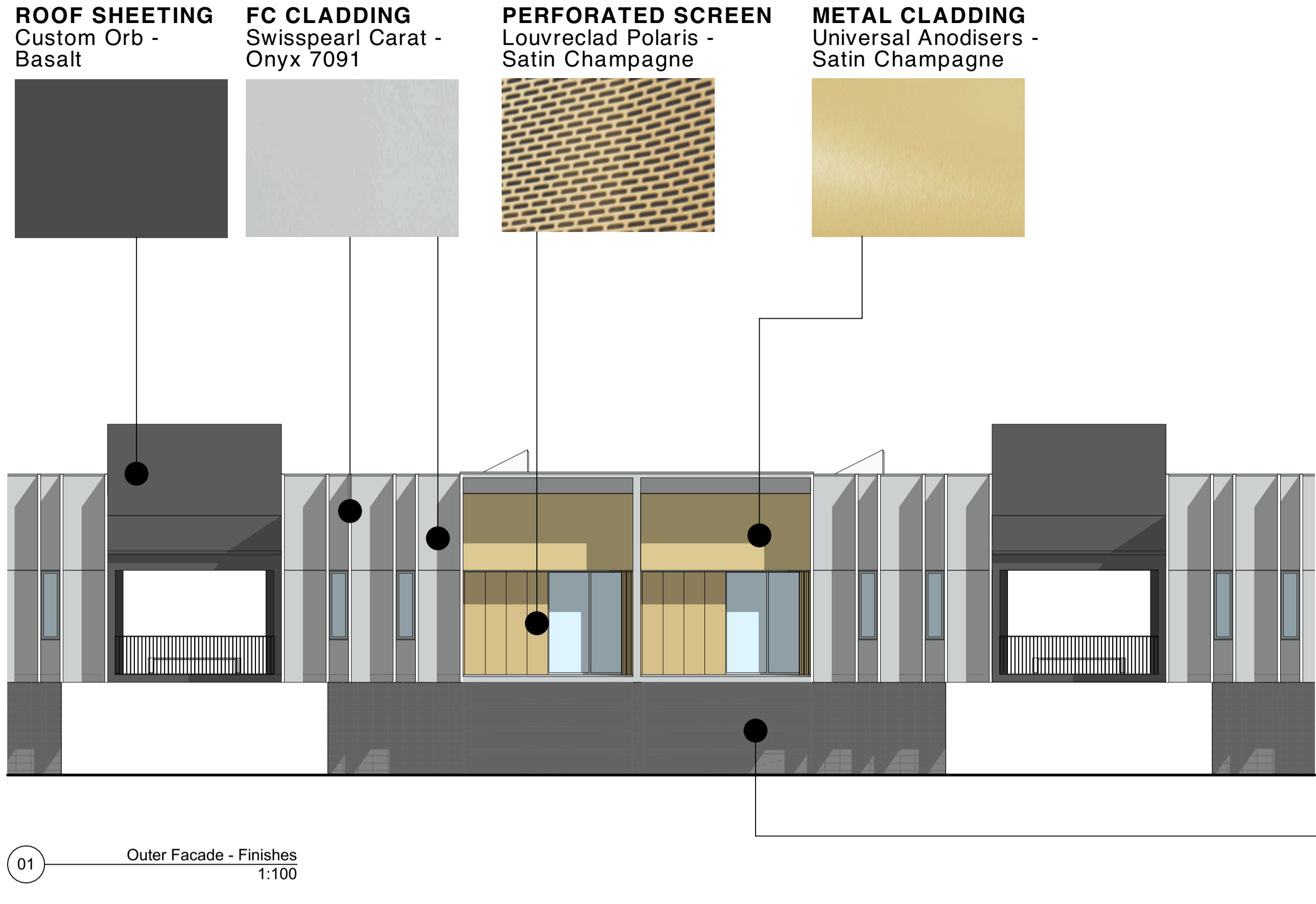


Project Address
 381 St Andrews Road,
 Varroville NSW

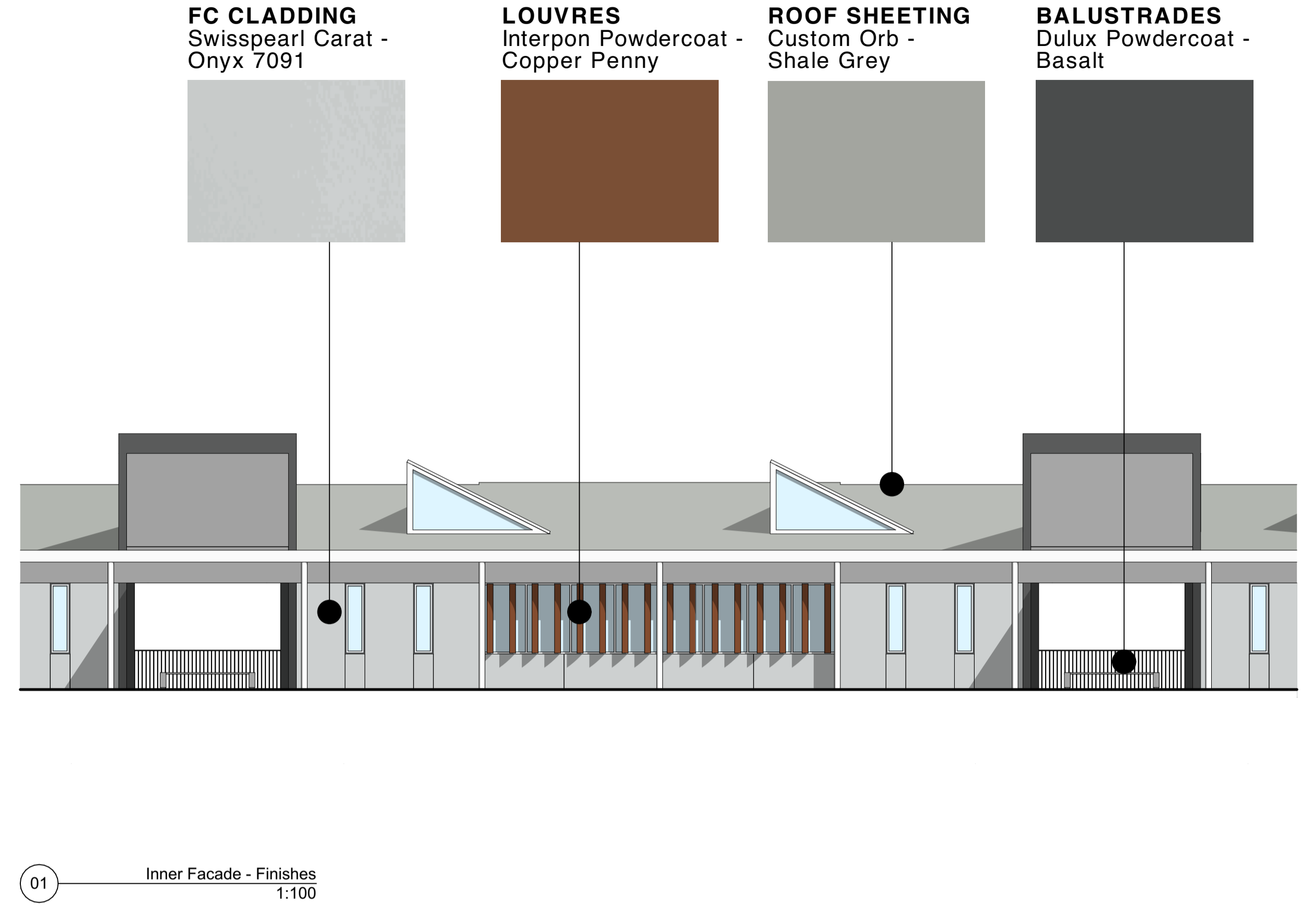
Drawn
 SB, RS

Checked Status
 MK, JK Not for Construction

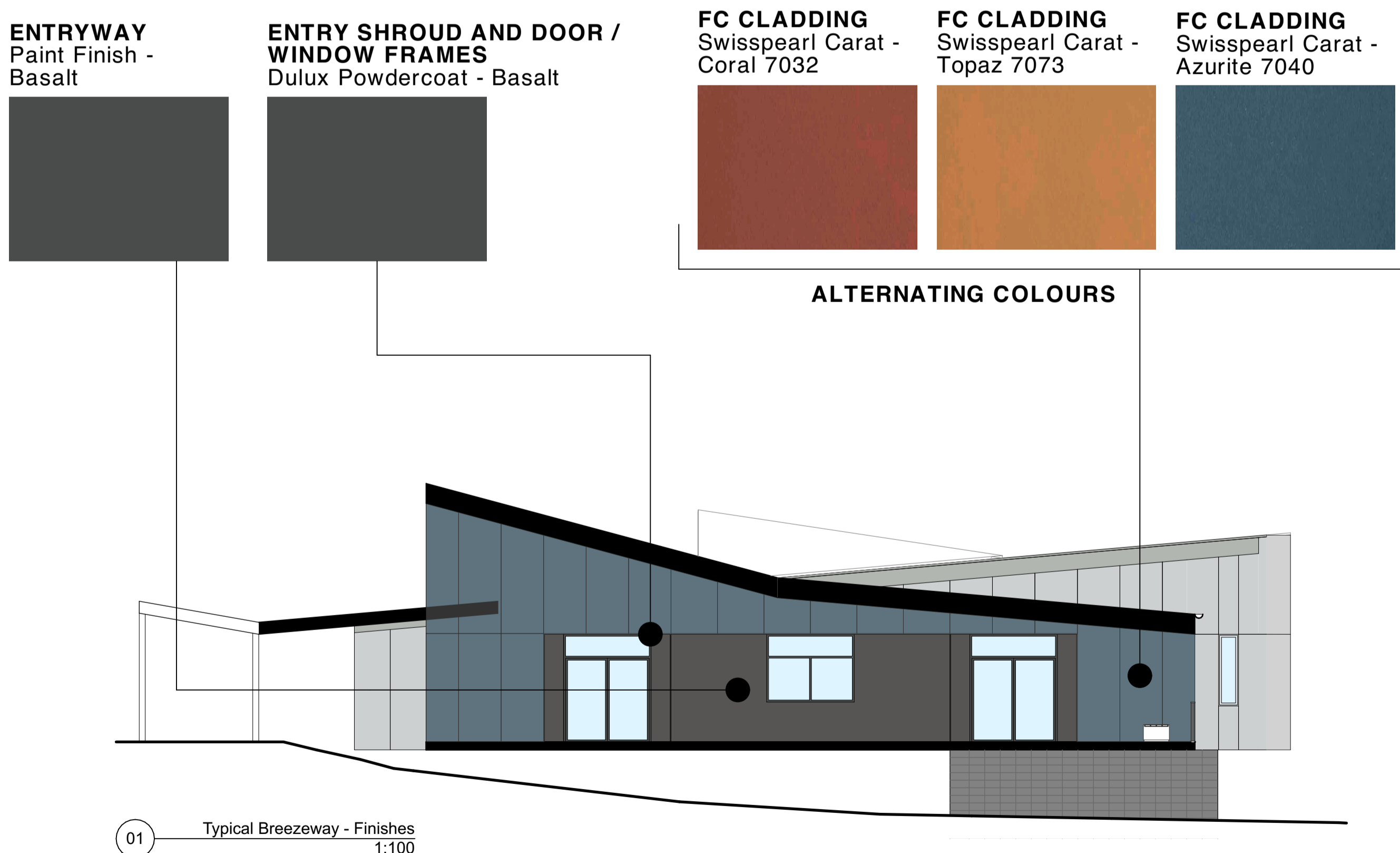
Drawing
Cut and Fill Plan
Project No. 21019
Revision 3
Drawing No. A-400



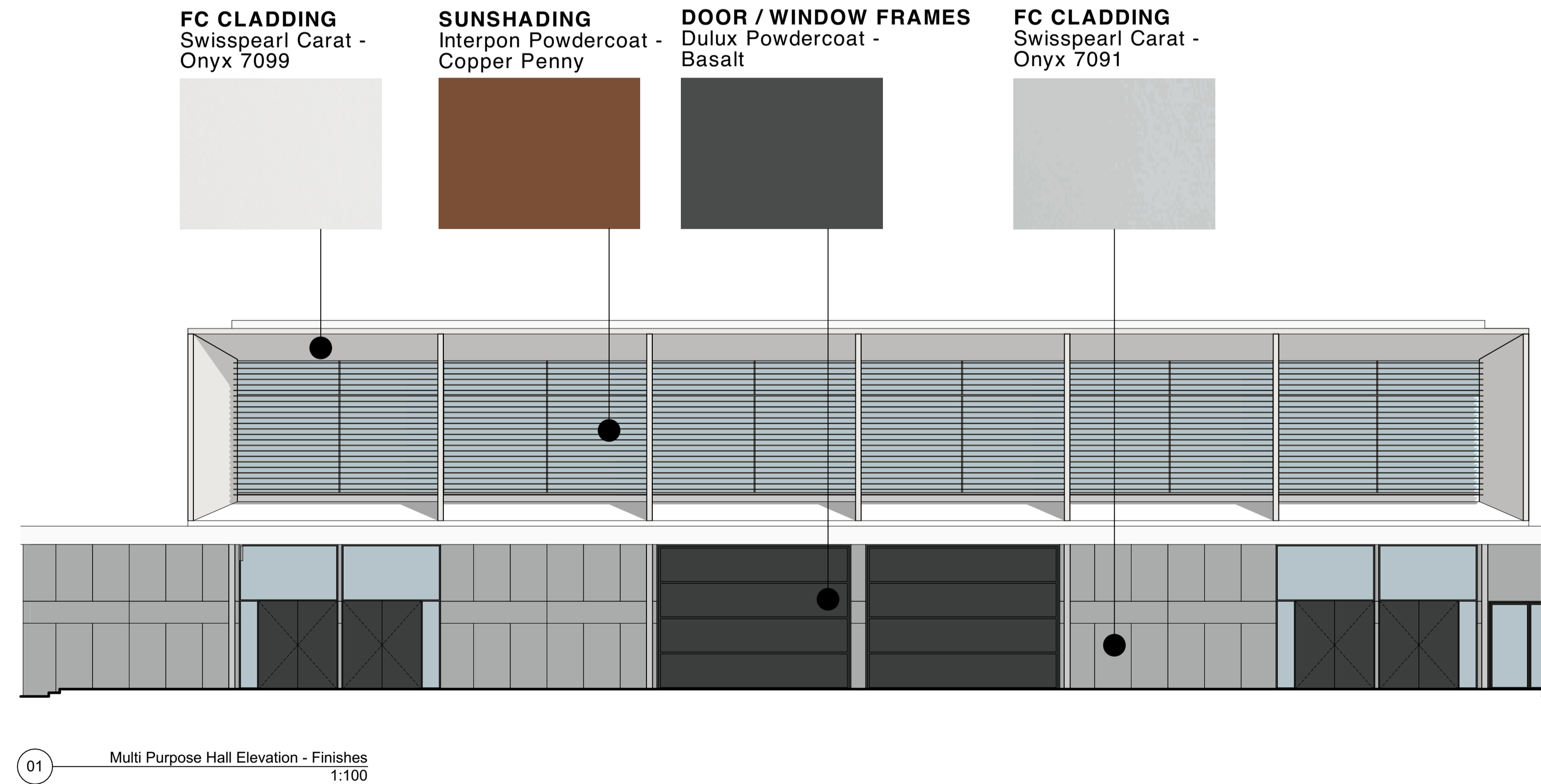
01 Outer Facade - Finishes
1:100



01 Inner Facade - Finishes
1:100



01 Typical Breezeway - Finishes
1:100



01 Multi Purpose Hall Elevation - Finishes
1:100

General Notes
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Scale at A1
1:100
Date
3/11/2022
Drawn
SB, RS

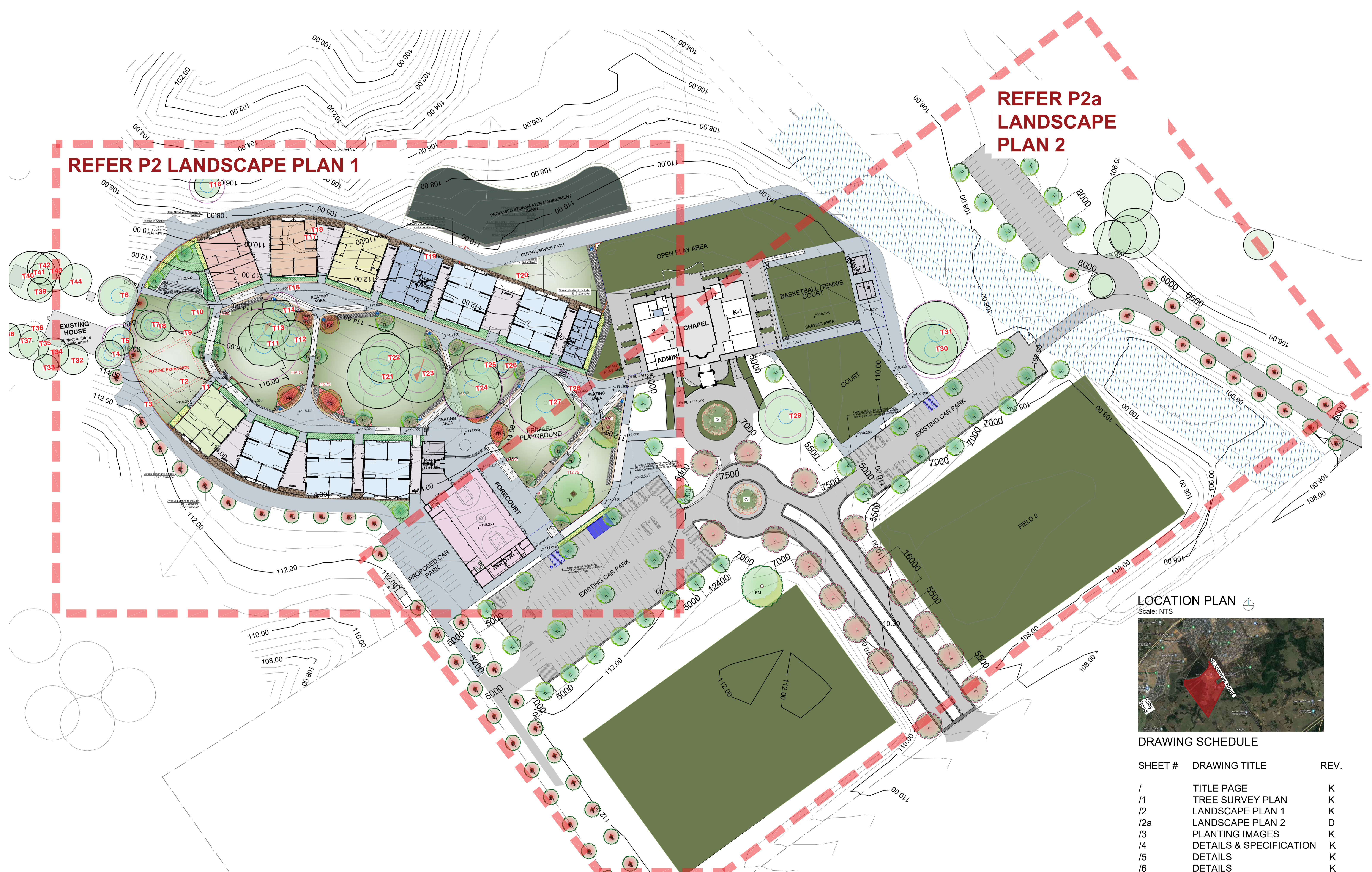
North

Project Address
381 St Andrews Road, Varroville NSW
Checked
MK, JK
Status
Not for Construction

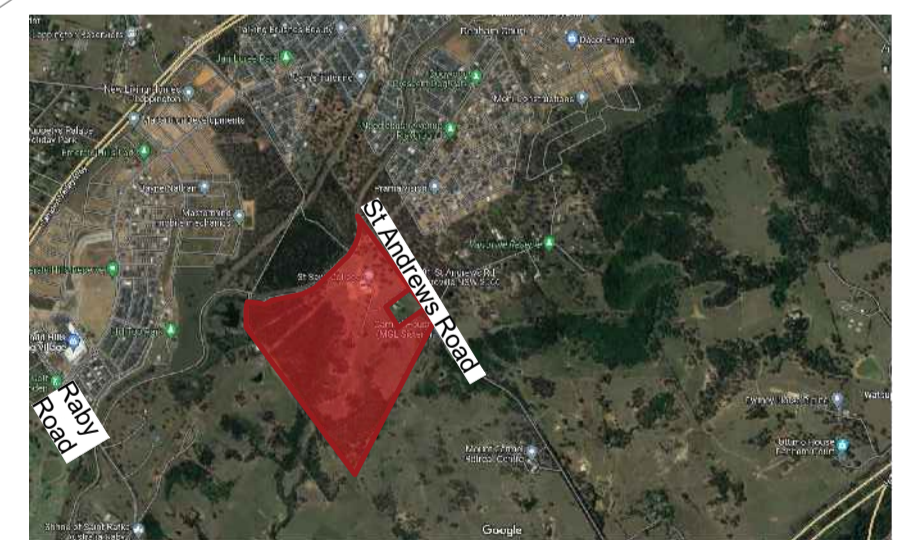
Drawing
External Finishes
Project No.
21019
Revision
3
Drawing No.
A-600

REFER P2 LANDSCAPE PLAN 1

REFER P2a LANDSCAPE PLAN 2



LOCATION PLAN
Scale: NTS



DRAWING SCHEDULE

SHEET #	DRAWING TITLE	REV.
/	TITLE PAGE	K
/1	TREE SURVEY PLAN	K
/2	LANDSCAPE PLAN 1	K
/2a	LANDSCAPE PLAN 2	D
/3	PLANTING IMAGES	K
/4	DETAILS & SPECIFICATION	K
/5	DETAILS	K
/6	DETAILS	K
/7	DETAILS	K

GENERAL NOTE:
Figured dimensions take preference to scale readings. Verify all dimensions on site. If any dimensions are found to be incorrect, the client is responsible for the error. The client is responsible for the accuracy of the information provided. The client is responsible for the accuracy of the information provided. The client is responsible for the accuracy of the information provided.



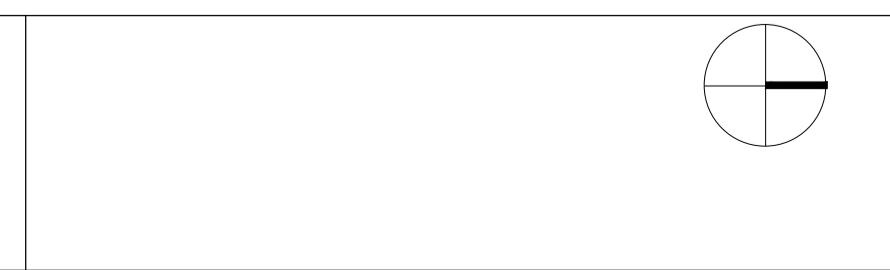
ARCHITECT:
BKA ARCHITECTURE

LANDSCAPE ARCHITECT:
Concept Landscape Architects
Suite 101, 508 Miller Street, CAMMERAY NSW 2062
Phone: 9922 5312
Fax: 9209 4962
Mobile: 0413 961 351
www.concept.net.au
enquiries@concept.net.au

COUNCIL:
CAMPBELLTOWN

REV	DATE	NOTATION/AMENDMENT
A	25.08.22	Preliminary DA prepared for review
B	09.09.22	Co-ordinated with amended architectural plan, arborist's report & Bushfire consultant's recommendation
K	08.12.23	Co-ordinated with amended architectural plan

PROJECT:
PROPOSED COLLEGE DEVELOPMENT
381 ST ANDREWS ROAD
VARROVILLE

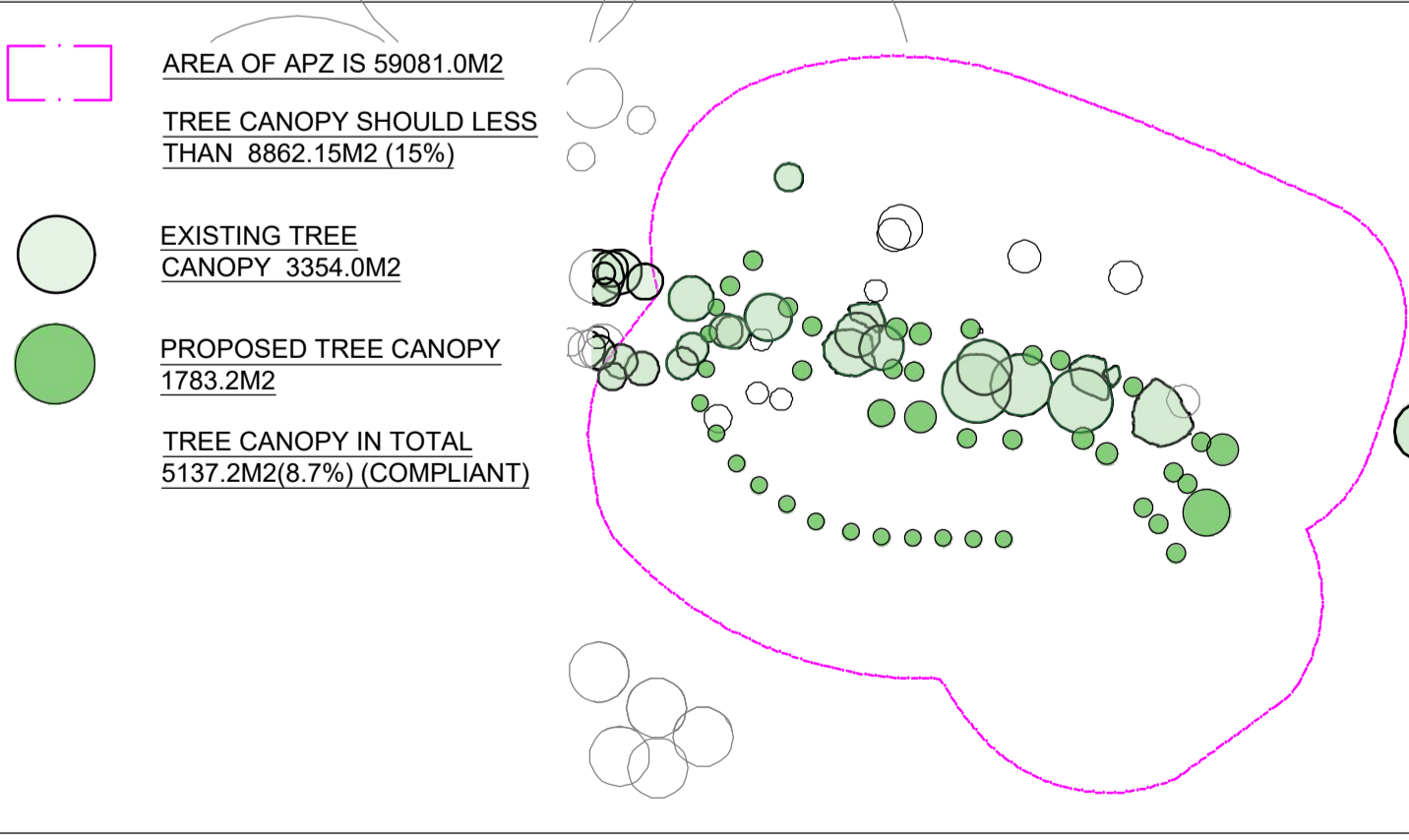


TITLE:
TITLE PAGE

STATUS:	
DEVELOPMENT APPLICATION	
SCALE:	DATE:
N/A	DECEMBER 2023
DRAWN:	CHECKED:
K.Z.	R.F.

DWG No: LPDA 23 - 95

SHEET: / ISSUE: K



TREE SURVEY

Existing Trees based on Arborists Report by Seasoned Tree Consulting prepared on 31 October 2022

No.#	Species	Size (Ht x Sp)	Condition	Action
1	Ligustrum lucidum	-	-	Remove
2	Pyrus sp.	6x8	Good	Remove & replace
3	Ligustrum lucidum	-	-	Remove
4	Grevillea robusta	12x10	Fair	Retain & protect
5	Lophostemon confertus	14x10	Good	Retain & protect
6	Lophostemon confertus	12x10	Good	Retain & protect
7	Acmena spp.	8x8	Good	Retain & protect
8	Acmena spp.	8x10	Good	Retain & protect
9	Cupressus sp.	11x9	Fair	Remove
10	Ficus macrophylla	10x14	Good	Retain & protect
11	Ficus macrophylla	13x16	Good	Retain & protect
12	Ficus rubiginosa	8x12	Fair	Retain & protect
13	Lophostemon confertus	14x10	Good	Retain & protect
14	Lophostemon confertus	12x10	Fair	Retain & protect
15	Ficus macrophylla	6x10	Fair	Remove & replace
16	Ficus rubiginosa	10x13	Good	Retain & protect

TREE SURVEY

Existing Trees based on Arborists Report by Seasoned Tree Consulting prepared on 31 October 2022

No.#	Species	Size (Ht x Sp)	Condition	Action
17	Lophostemon confertus	8x8	Good	Remove & replace
18	Ficus macrophylla	7x12	Fair	Remove & replace
19	Ficus macrophylla	7x12	Good	Remove & replace
20	Ficus rubiginosa	10x15	Good	Remove & replace
21	Ficus macrophylla	12x14	Good	Retain & protect
22	Lophostemon confertus	13x12	Good	Retain & protect
23	Ficus macrophylla	10x15	Good	Retain & protect
24	Ficus rubiginosa	14x17	Good	Retain & protect
25	Ficus rubiginosa	14x15	Good	Retain & protect
26	Schinus molle	8x10	Good	Retain & protect
27	Ficus macrophylla	17x22	Good	Retain & protect
28	Schinus molle	13x10	Fair	Remove & replace
29	Eucalyptus sp.	13x14	Good	Retain & protect
30	Eucalyptus sp.	20x15	Fair	Retain & protect
31	Eucalyptus sp.	25x22	Good	Retain & protect

TREE SURVEY

Existing Trees based on Arborists Report by Seasoned Tree Consulting prepared on 17 MAY 2023

No.#	Species	Size (Ht x Sp)	Condition	Action
32	Lophostemon confertus	12x12	Good	Retain & protect
33	Quercus robur	10x12	Fair	Retain & protect
34	Lophostemon confertus	12x12	Good	Retain & protect
35	Lophostemon confertus	12x12	Good	Retain & protect
36	Jacaranda mimosifolia	8x12	Poor	Remove
37	Lophostemon confertus	12x12	Good	Retain & protect
38	Lophostemon confertus	12x12	Good	Retain & protect
39	Auranticarpa rhombifolia	8x8	Good	Retain & protect
40	Lophostemon confertus	13x12	Good	Retain & protect
41	Eriobotrya japonica	6x6	Good	Retain & protect
42	Lophostemon confertus	13x10	Good	Retain & protect
43	Jacaranda mimosifolia	10x10	Good	Retain & protect
44	Lophostemon confertus	10x8	Good	Retain & protect

GENERAL NOTE: Figure dimensions take preference to scale readings. Verify all dimensions on site. If any dimensions are not shown, refer to the site plan or other drawings. All dimensions are in meters unless otherwise stated. All dimensions are to the center of the object unless otherwise stated. All dimensions are to the center of the object unless otherwise stated. All dimensions are to the center of the object unless otherwise stated.

CLIENT: ST SAVA COLLEGE

PROJECT: PROPOSED COLLEGE DEVELOPMENT
381 ST ANDREWS ROAD
VARROVILLE

SCALE: 1:500@A1

DATE: DECEMBER 2023

STATUS: DEVELOPMENT APPLICATION

BAR SCALE: 0 10 20 30 40 50m



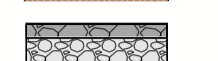






CONCEPT LANDSCAPE ARCHITECTS: Suite 101, 506 Miller Street, CAMMERAY NSW 2062. Phone: 9922 5312. Fax: 8209 4962. Mobile: 0413 961 321. www.concept.net.au

ARCHITECT: BKA ARCHITECTURE

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HARDSCAPE ITEMS

-  Steel garden edging - refer detail 10
-  Timber bridge across swale - refer detail 12
-  Dry creek - refer detail 13
-  Material to be confirmed
Decorative gravel/Blue metal ballast/Sandstone
rock ballast or similar to be nom. by client
-  Deco-granite path-refer detail 11
-  Tree planting in turf -refer future detail
-  Roof over walkway-refer architect's detail
-  Site fence- refer to architect's detail
-  500x500x1000mm sandstone block retaining
wall-refer detail 9



LARGE SHADE TREES

Botanical Name: *Ficus macrophylla*
Common Name: Australian Banyan (Native)
Pot size: 200L
Mature H x S: 20-35m x 25-30m
Qty Required: 2

AVENUE PLANTING

Botanical Name: *Corymbia gummifera*
Common Name: Red Bloodwood (Native)
Pot size: 100L
Mature H x S: 15-20m x 10m
Qty Required: 2

Botanical Name: *Syncarpia glomulifera*
Common Name: Turpentine (Native)
Pot size: 100L
Mature H x S: 13-25m x 8-15m
Qty Required: 3

Botanical Name: *Fraxinus 'Raywoodii'*
Common Name: Claret Ash (Exotic)
Pot size: 100L
Mature H x S: 10m x 5m
Qty Required: 6

Botanical Name: *Syzygium smithii*
(formerly Acmena smithii)
Common Name: Lilly Pilly (Native)
Pot size: 100L
Mature H x S: 10-15m x 5-10m
Qty Required: 13

Botanical Name: *Tristanopsis laurina 'Luscious'*
Common Name: Watergum (Native)
Pot size: 100L
Mature H x S: 6-8m x 3-5m
Qty Required: 5

Botanical Name: *Exocarpos cupressiformis*
Common Name: Cherry Ballart (Native)
Pot size: 100L
Mature H x S: 6-8m x 3-5m
Qty Required: 5

Botanical Name: *Elaeocarpus reticulatus*
Common Name: Blueberry Ash (Native)
Pot size: 100L
Mature H x S: 8-10m x 6-7m
Qty Required: 5

SCREEN PLANTING

Botanical Name: *Syzygium 'Cascade'*
Common Name: Cascade Lilly Pilly (Native)
Pot size: 200mm
Mature H x S: 2.5m x 1.8m
Qty Required: 123

POCKET GARDEN BED PLANTING

POT SIZE: Tube stock
QUANTITY: 6/m² (Total of 490m²)

KEY	Botanical Name	Common Name
BB	<i>Banksia 'Birthday Candles'</i>	Banksia Birthday Candles
GRR	<i>Grevillea 'Royal Rambler'</i>	Royal Rambler Grevillea
Nd	<i>Nandina domestica 'Flirt'</i>	'Flirt' Nandina
Mp	<i>Myoporum parvifolium 'Yareena'</i>	Creeping Boobialla
Wf	<i>Westringia fruticosa 'Mundi'</i>	Coastal Rosemary

NATIVE GRASS MIX (in tube stock)

POT SIZE: Tube stock
QUANTITY: 9/m² (Total of 700m²)

KEY	Botanical Name	Common Name
CA	<i>Carex appressa</i>	Tall Sedge
JA	<i>Juncus amabilis</i>	Hollow Rush
IN	<i>Isolepis nodosa</i>	Nobby Club Rush
LS	<i>Lomandra 'Shara'</i>	Mat Rush
DRR	<i>Dianella revoluta 'Revelation'</i>	Flax Lily

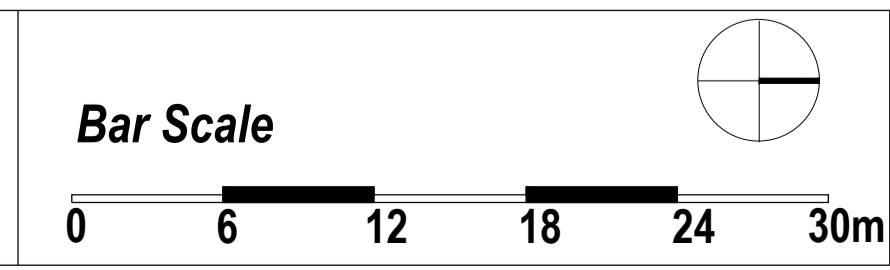
GENERAL NOTE:
 1. All dimensions are to face unless otherwise stated.
 2. All levels are to finished ground level unless otherwise stated.
 3. All materials to be confirmed with the client.
 4. All trees to be planted in accordance with the Australian Standard AS 4373-2007.
 5. All plants to be supplied in 100% shade tolerance.
 6. All plants to be supplied in 100% shade tolerance.
 7. All plants to be supplied in 100% shade tolerance.
 8. All plants to be supplied in 100% shade tolerance.
 9. All plants to be supplied in 100% shade tolerance.
 10. All plants to be supplied in 100% shade tolerance.

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 Fax: 9922 0862
 Mobile: 0413 961 351
 www.concept.net.au
 enquiries@concept.net.au

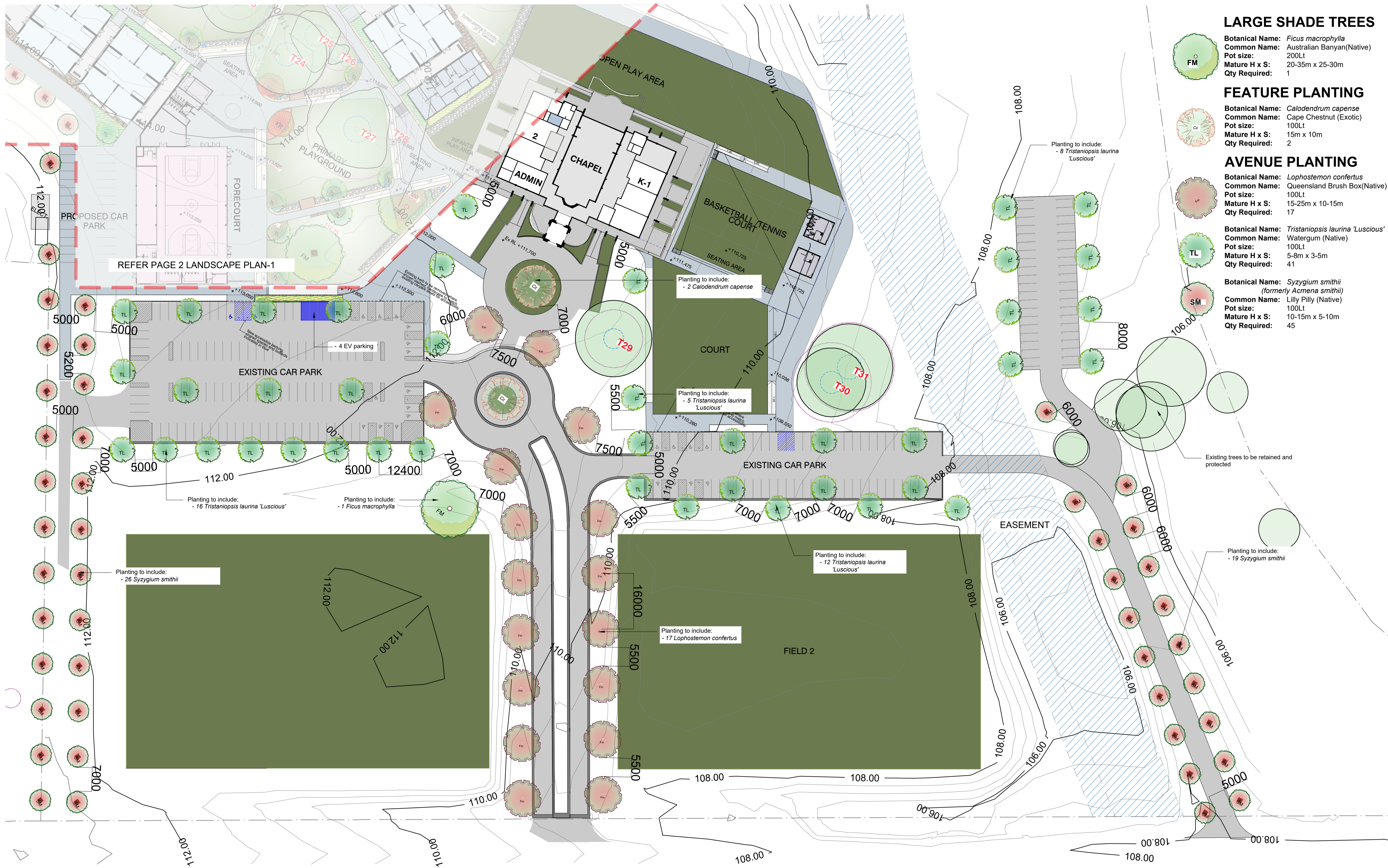
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 CLIENT: ST SAVA COLLEGE

REV	DATE	NOTATION/AMENDMENT
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PROJECT: PROPOSED COLLEGE DEVELOPMENT
 381 ST ANDREWS ROAD
 VARROVILLE



TITLE: LANDSCAPE PLAN 1		STATUS: DEVELOPMENT APPLICATION	
DWG NO: LPDA 23 - 95	SHEET: 02	SCALE: 1:300@A1	DATE: DECEMBER 2023
ISSUE: K	DRAWN: K.Z	CHECKED: R.F	



LARGE SHADE TREES

Botanical Name: *Ficus macrophylla*
 Common Name: Australian Banyan(Native)
 Pot size: 200Lt
 Mature H x S: 20-35m x 25-30m
 Qty Required: 1

FEATURE PLANTING

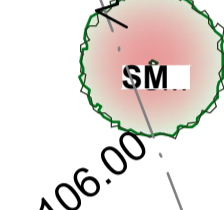
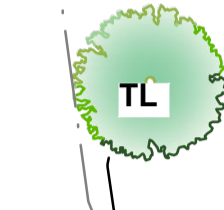
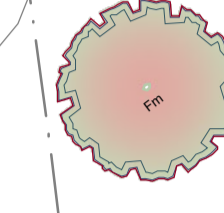
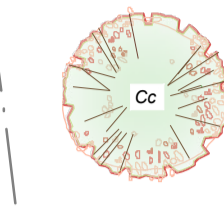
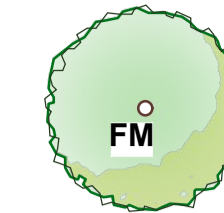
Botanical Name: *Calodendrum capense*
 Common Name: Cape Chestnut (Exotic)
 Pot size: 100Lt
 Mature H x S: 15m x 10m
 Qty Required: 2

AVENUE PLANTING

Botanical Name: *Lophostemon confertus*
 Common Name: Queensland Brush Box(Native)
 Pot size: 100Lt
 Mature H x S: 15-25m x 10-15m
 Qty Required: 17

Botanical Name: *Tristaniopsis laurina* 'Luscious'
 Common Name: Watergum (Native)
 Pot size: 100Lt
 Mature H x S: 5-8m x 3-5m
 Qty Required: 41

Botanical Name: *Syzygium smithii* (formerly *Acmena smithii*)
 Common Name: Lilly Pilly (Native)
 Pot size: 100Lt
 Mature H x S: 10-15m x 5-10m
 Qty Required: 45



Existing trees to be retained and protected

Planting to include: - 19 *Syzygium smithii*

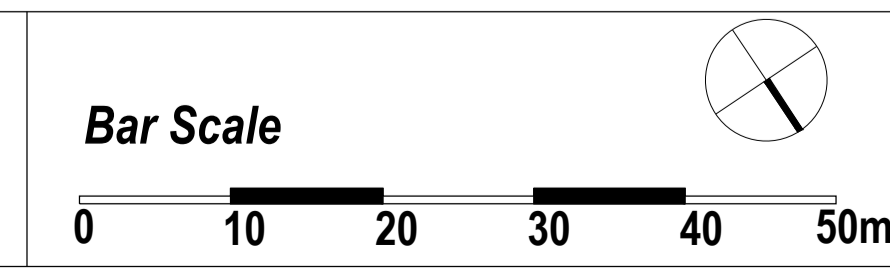
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REV	DATE	NOTATION/AMENDMENT
A	07.06.23	Draft landscape plan Co-ordinating with council's comments
B	14.06.23	Co-ordinated with bush fire consultant's comments
C	13.09.23	Reviewed landscape design
D	08.12.23	Co-ordinated with amended architectural plan

PROJECT: PROPOSED COLLEGE DEVELOPMENT
 381 ST ANDREWS ROAD
 VARROVILLE



TITLE: LANDSCAPE PLAN 2
 DWG No: LPDA 23 - 95
 SHEET: 2A
 ISSUE: C

STATUS: DEVELOPMENT APPLICATION	
SCALE: 1:500@A1	DATE: DECEMBER 2023
DRAWN: K.Z.	CHECKED: R.F.



Fraxinus 'Raywoodii'



Ficus macrophylla



Tristaniopsis laurina 'Luscious'



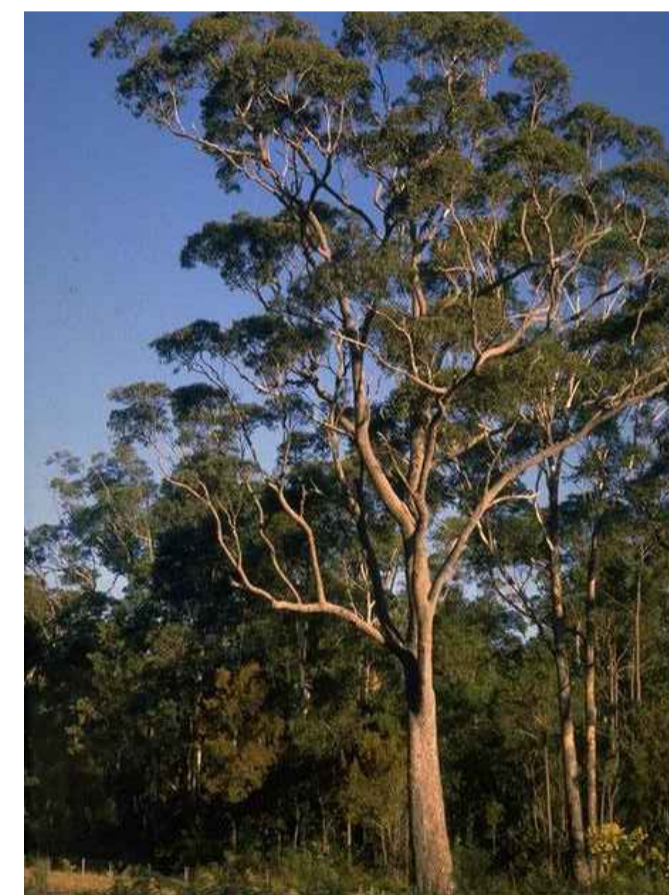
Syzygium smithii
(formerly *Acmena smithii*)



Elaeocarpus reticulatus



Syncarpia glomulifera



Corymbia gummifera



Exocarpos cupressiformis



Grevillea 'Royal Mantle'



Banksia 'Birthday Candles'



Syzygium 'Cascade'



Myoporum parvifolium 'Yareena'



Westringia fruticosa 'Mundi'



Nandina domestica 'Flirt'

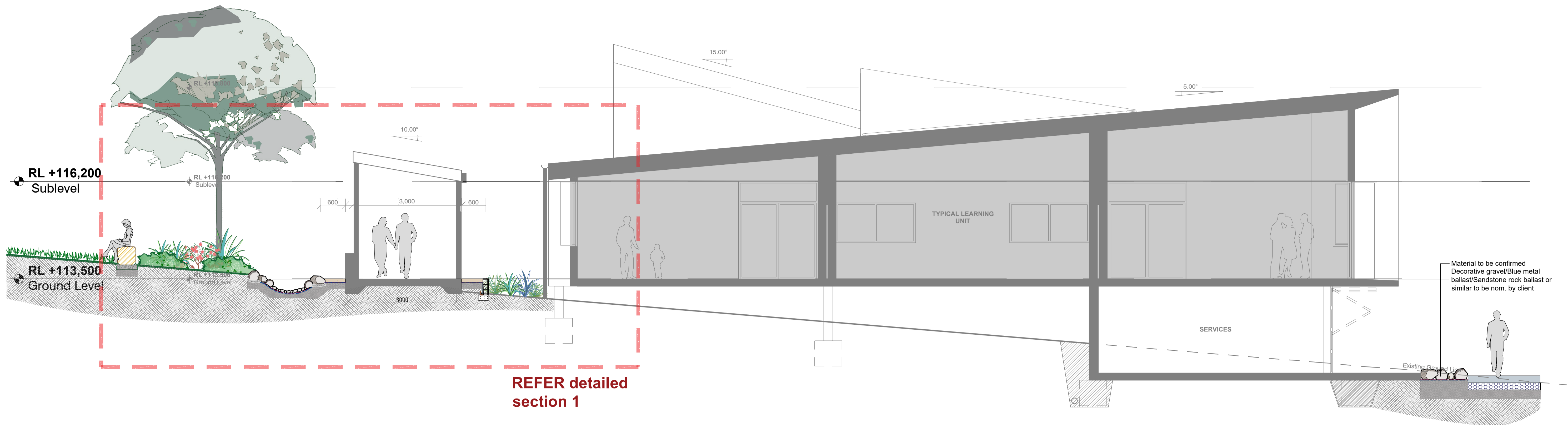


Lomandra 'Shara'

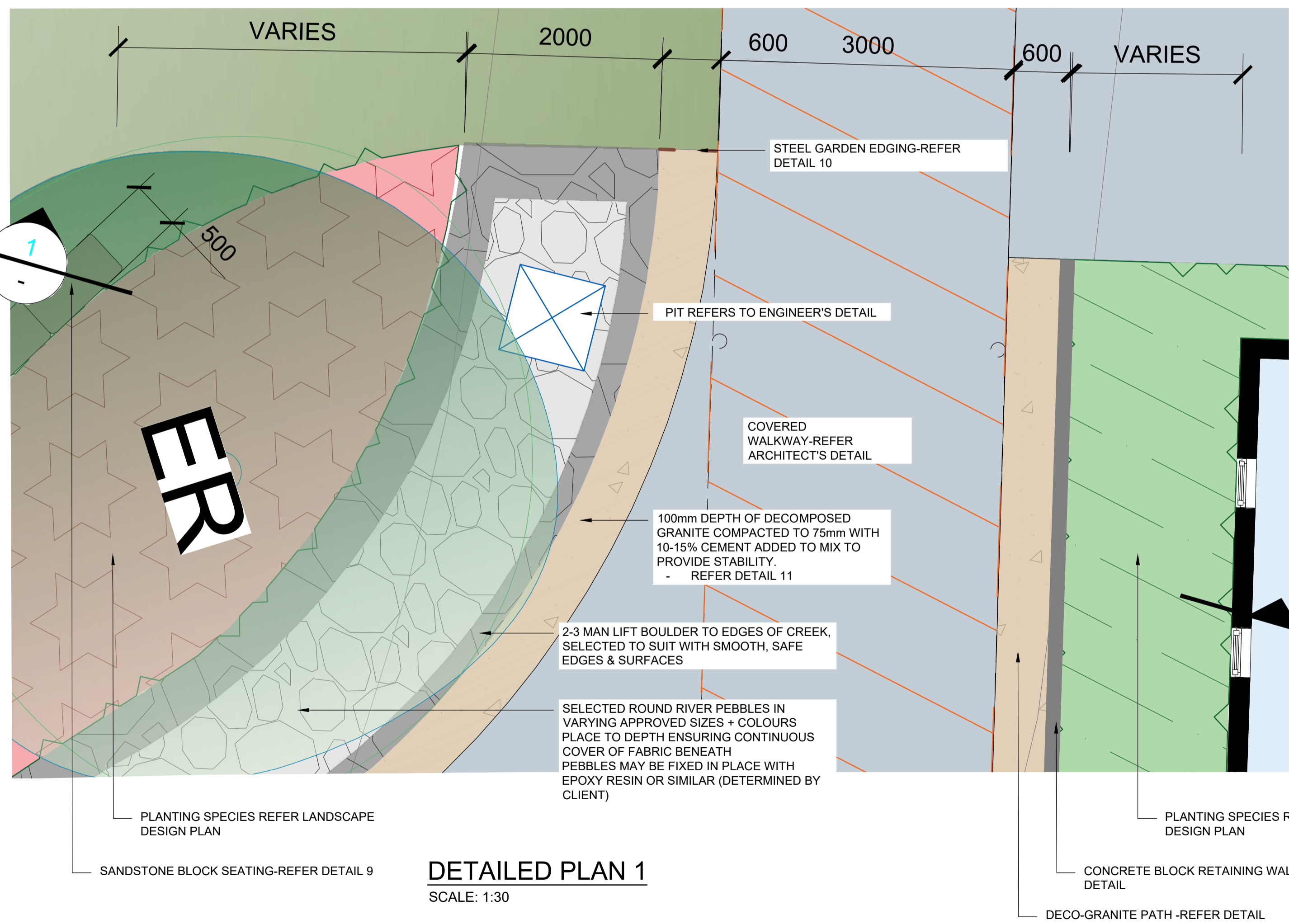


Juncus amabilis

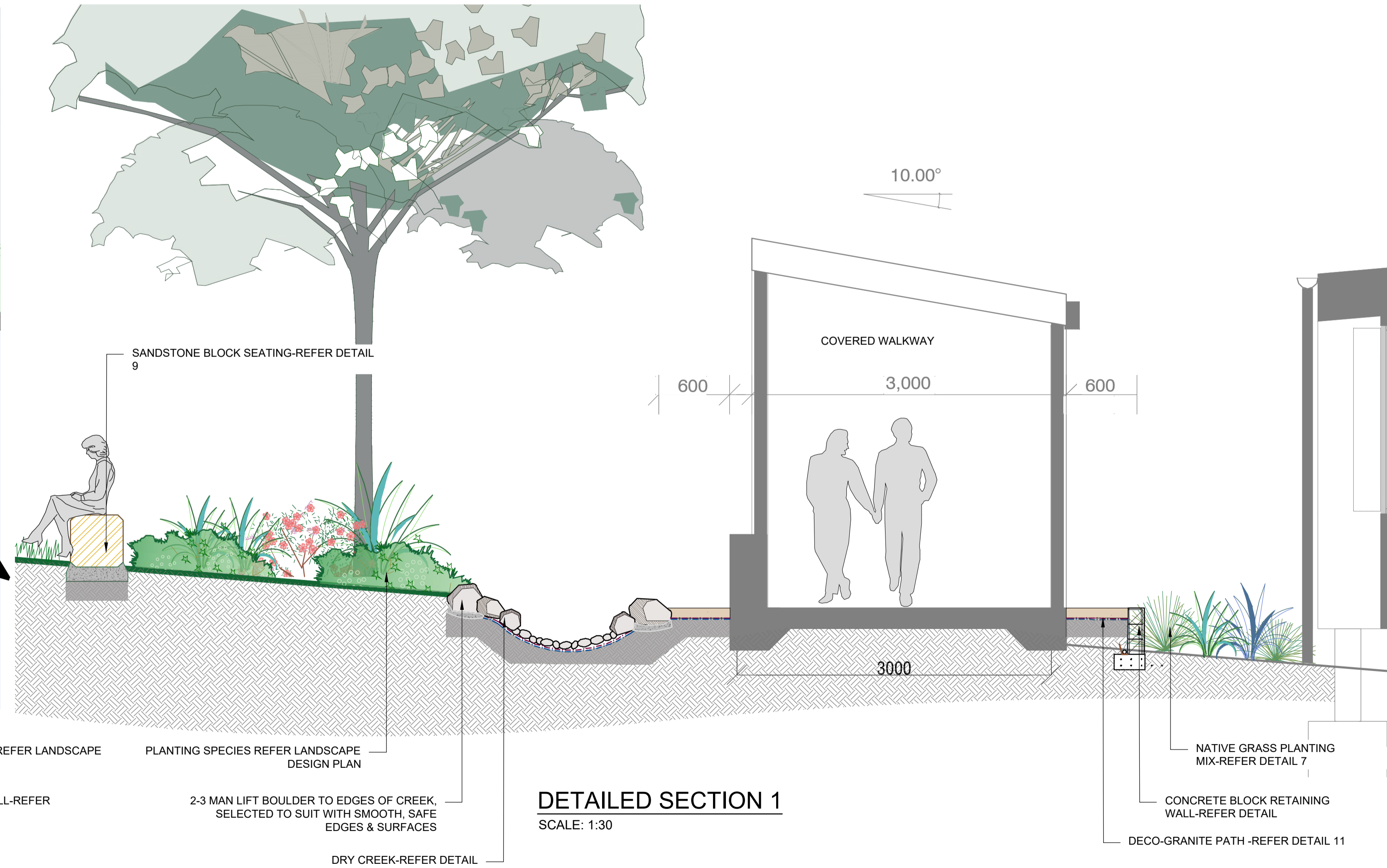
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		REV	DATE	NOTATION/AMENDMENT																
A	25.08.22	Preliminary DA prepared for review																		
B	09.09.22	Co-ordinated with amended architectural plan, arborist's report & Bushfire consultant's recommendation																		
K	08.12.23	Co-ordinated with amended architectural plan																		
<p>DWG No: LPDA 23 - 95</p>	<p>SHEET: 03</p>	<p>ISSUE: K</p>	<p>SCALE: N/A</p>	<p>DATE: DECEMBER 2023</p>	<p>DRAWN: K.Z</p>	<p>CHECKED: R.F</p>														



SECTION A-A
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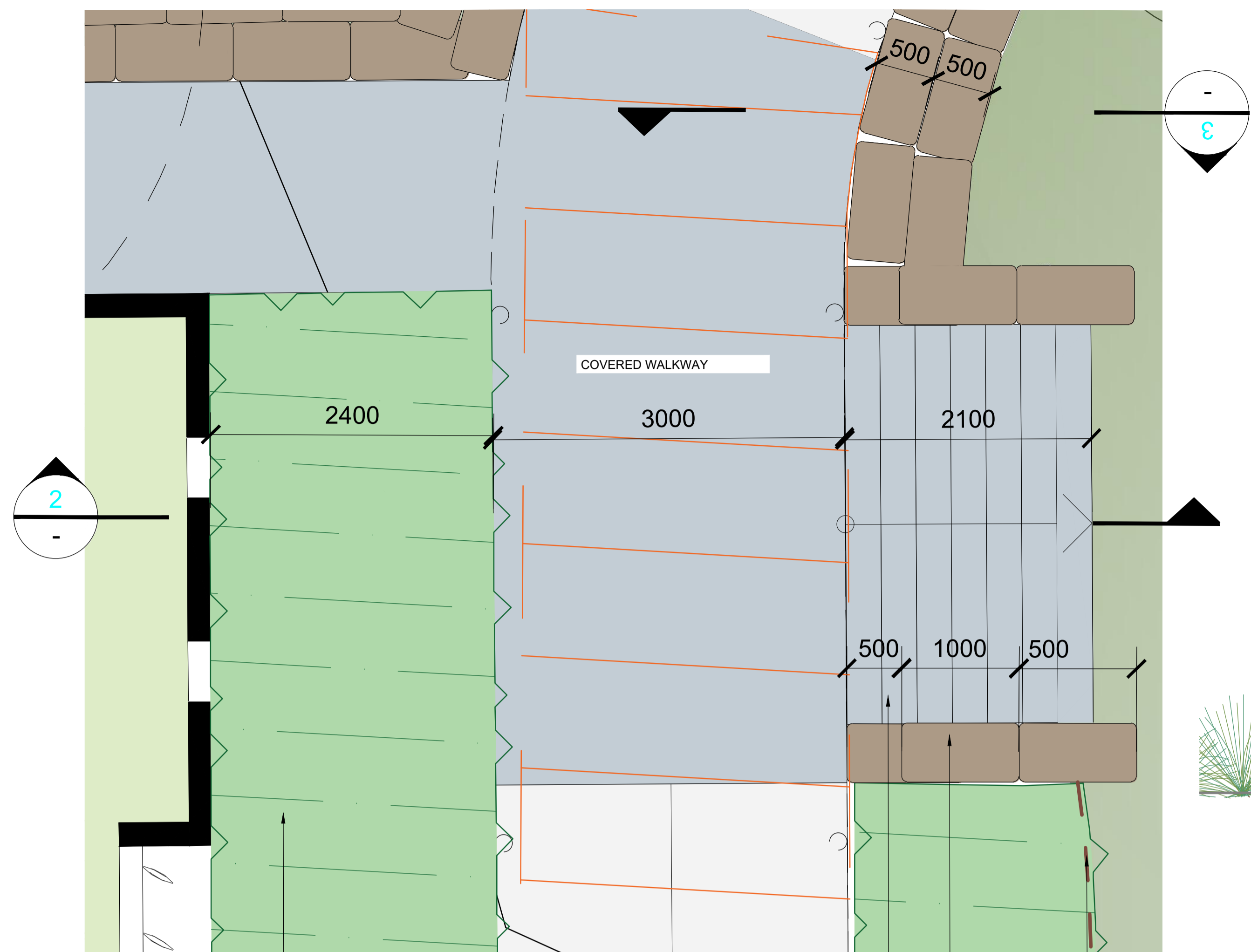


DETAILED PLAN 1
SCALE: 1:30

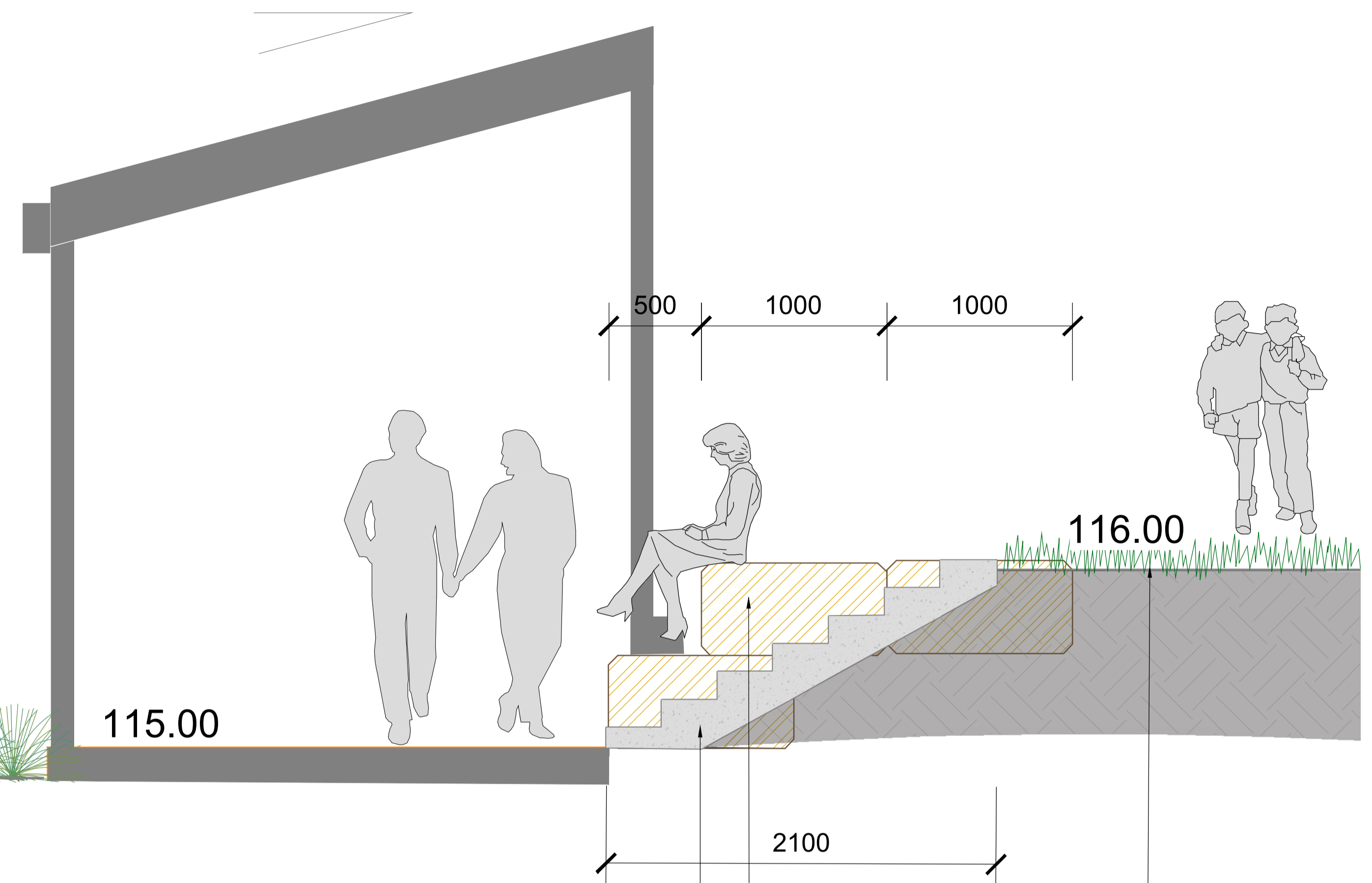


DETAILED SECTION 1
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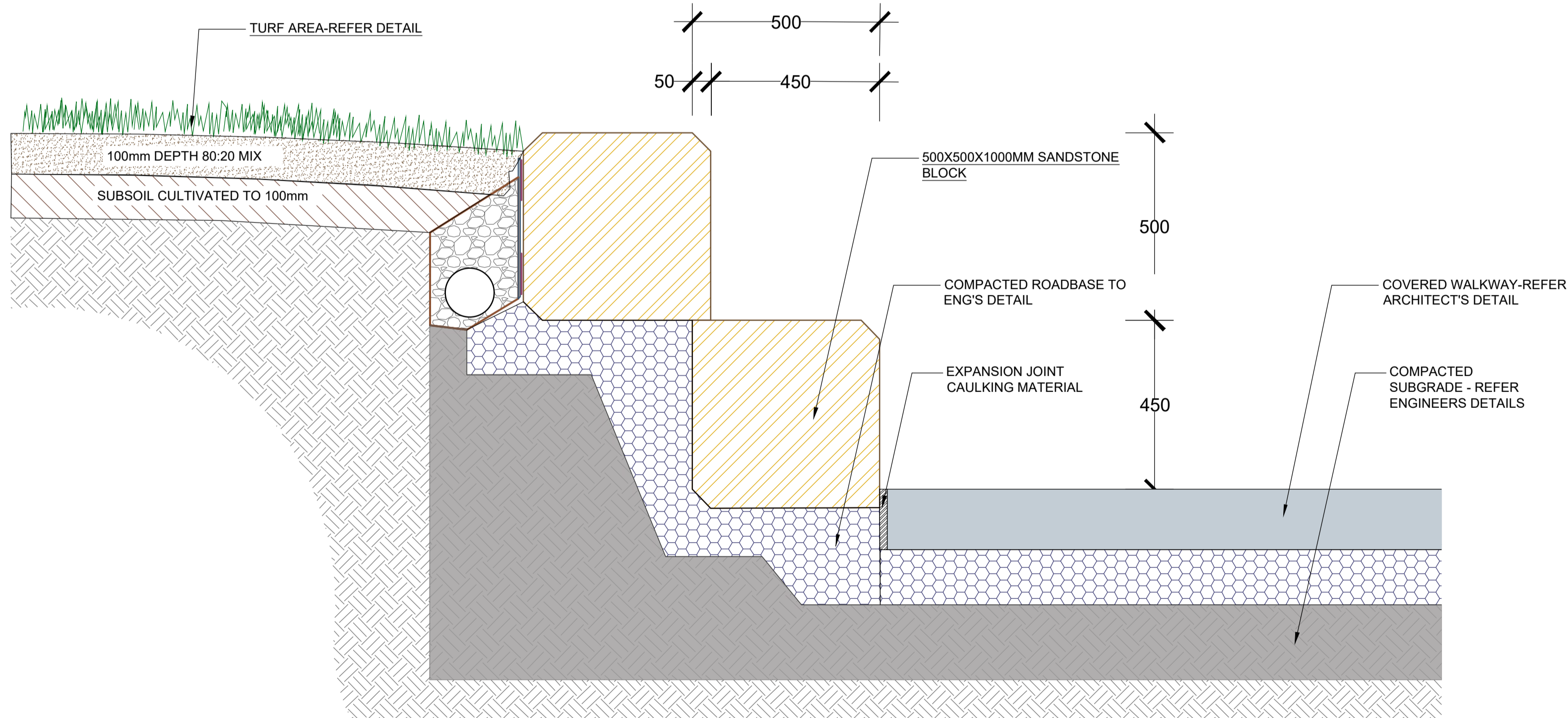
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			COUNCIL: CAMPBELLTOWN	CLIENT: ST SAVA COLLEGE	SCALE: N/A	DATE: DECEMBER 2023	DWG No: LPDA 23 - 95	SHEET: 05



DETAILED PLAN 2
SCALE: 1:30



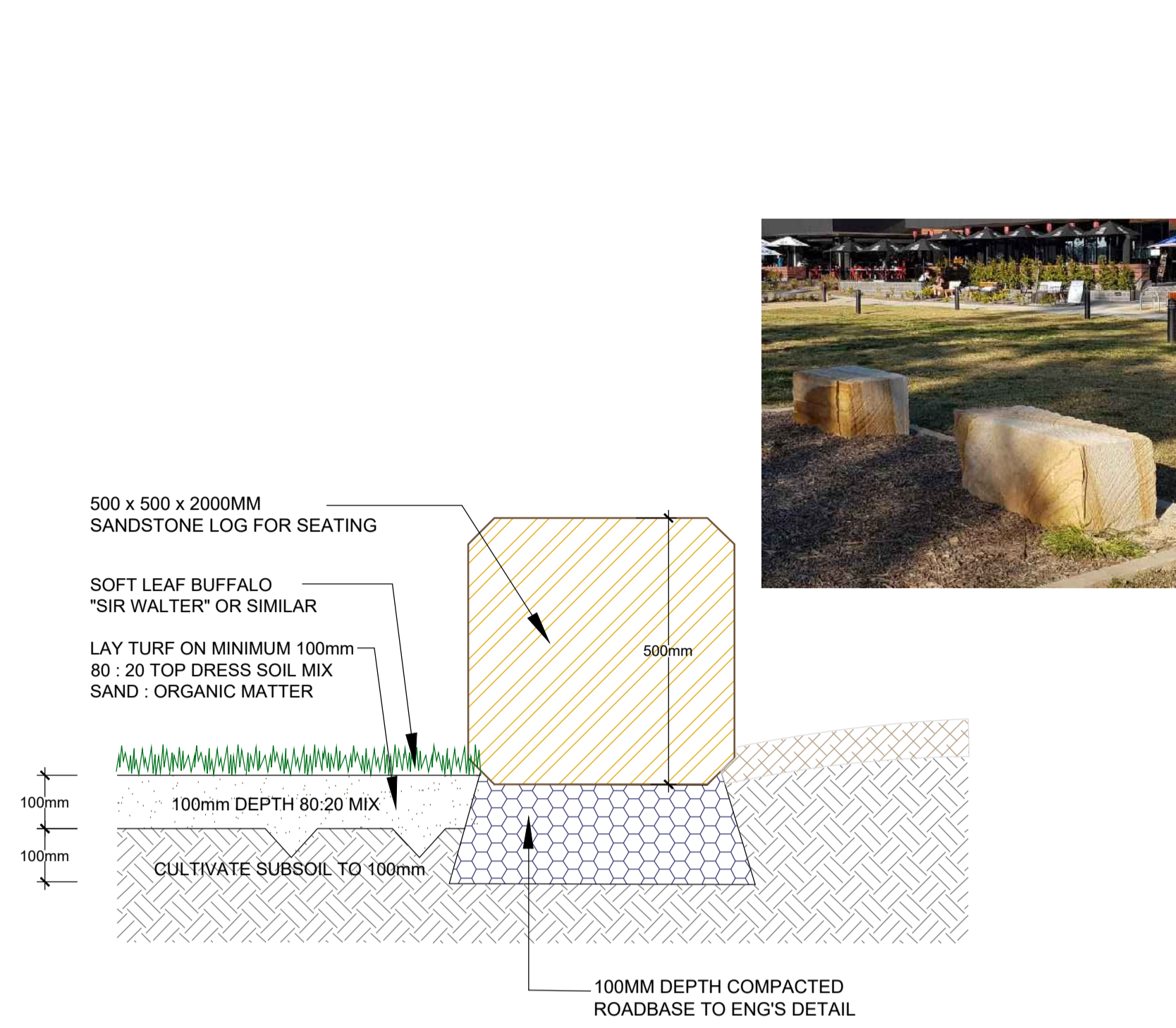
DETAILED SECTION 2
SCALE: 1:20



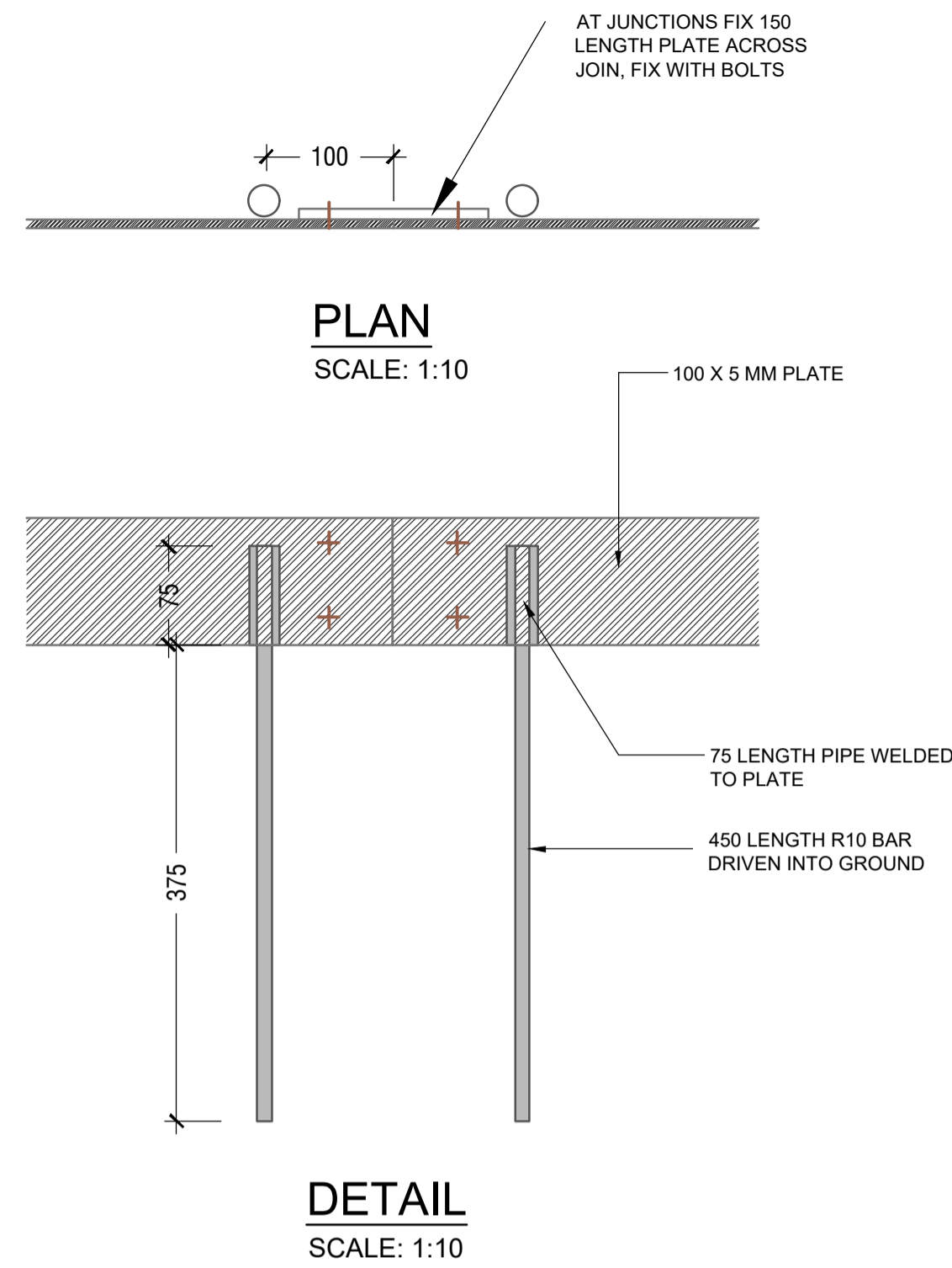
SANDSTONE BLOCK RETAINING WALL DETAILED SECTION 3
SCALE: 1:10



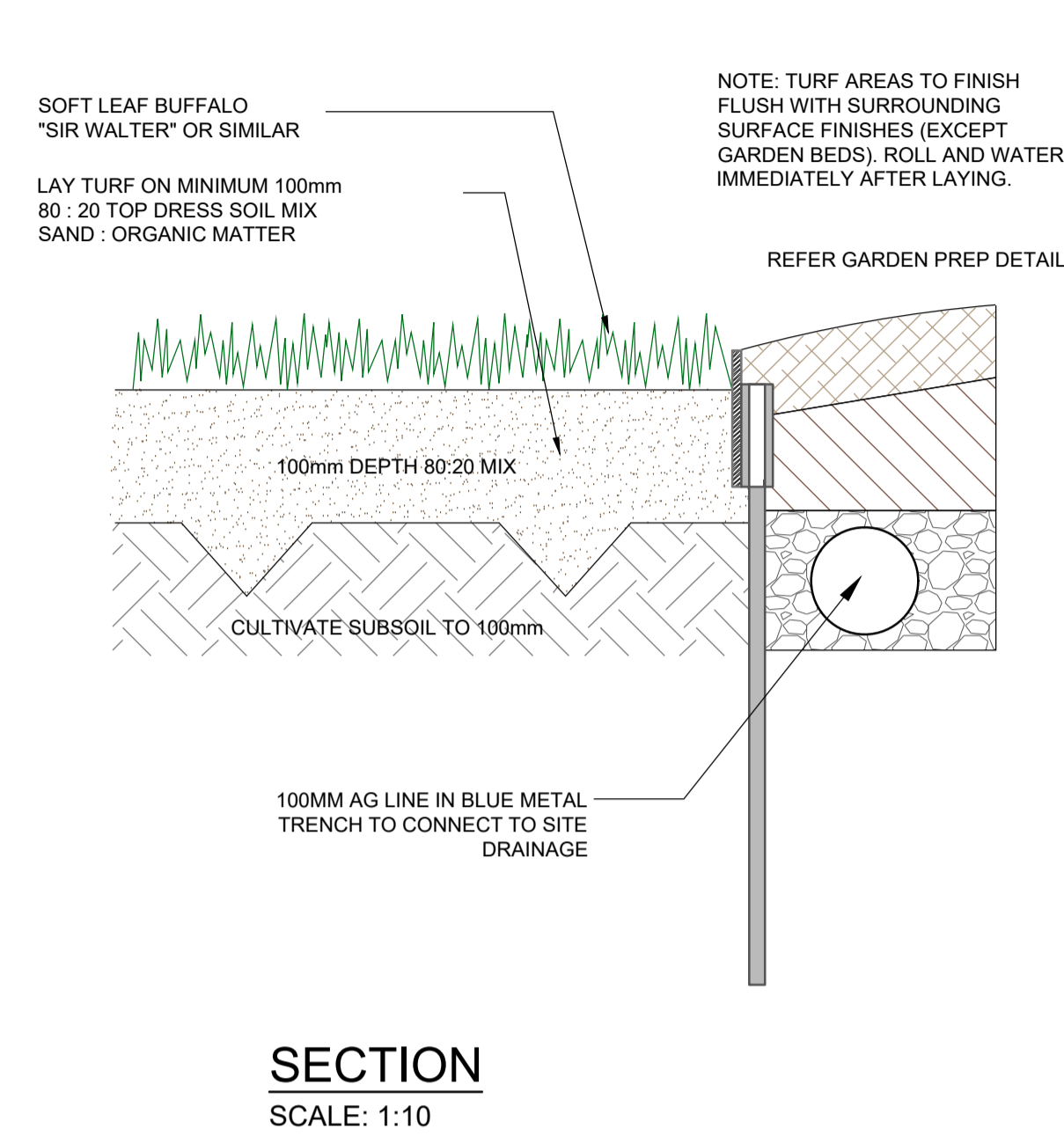
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				<p>ARCHITECT:</p> <p>KA ARCHITECTURE</p>			



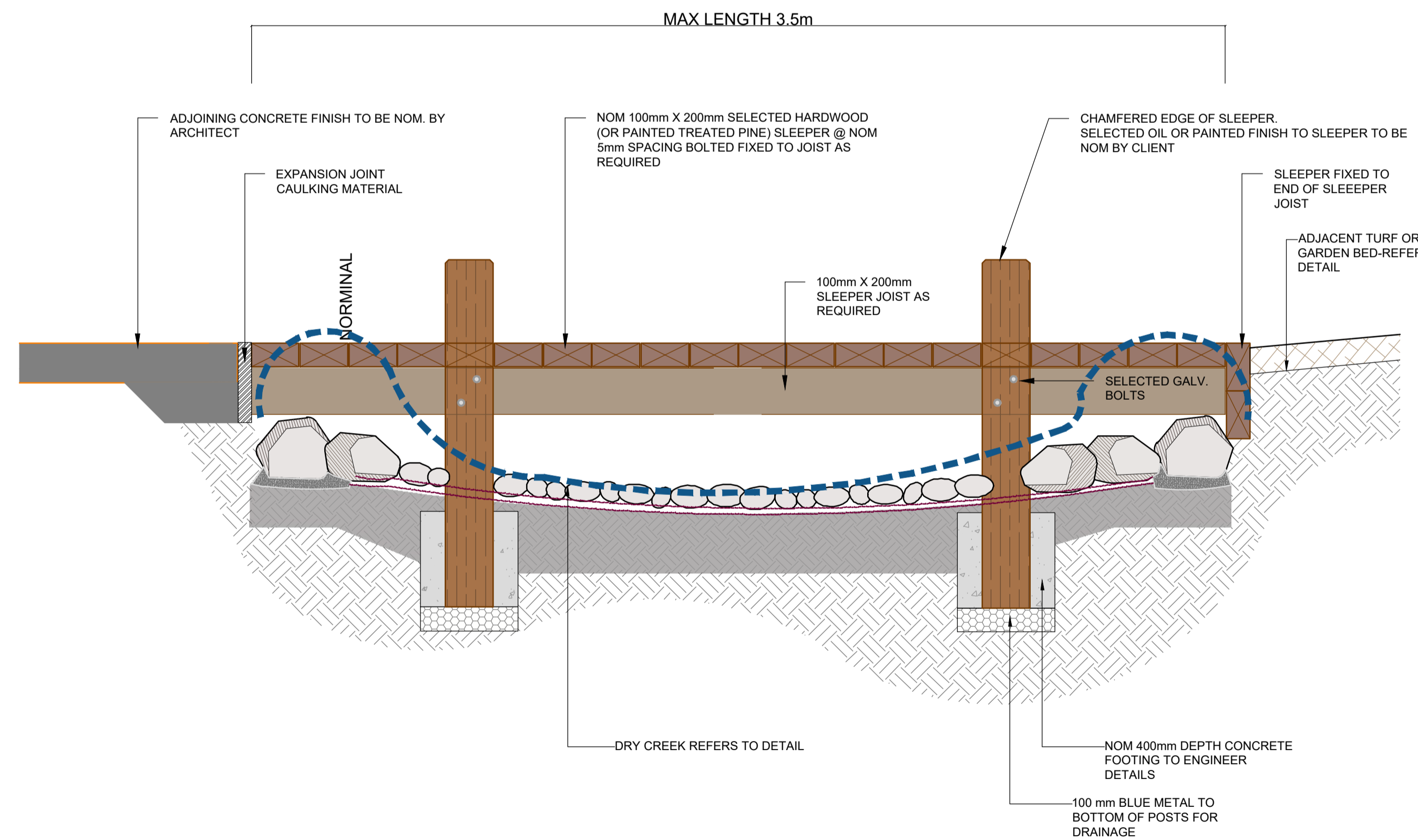
9. TURF & SANDSTONE SEATING LOG
SCALE: 1:10



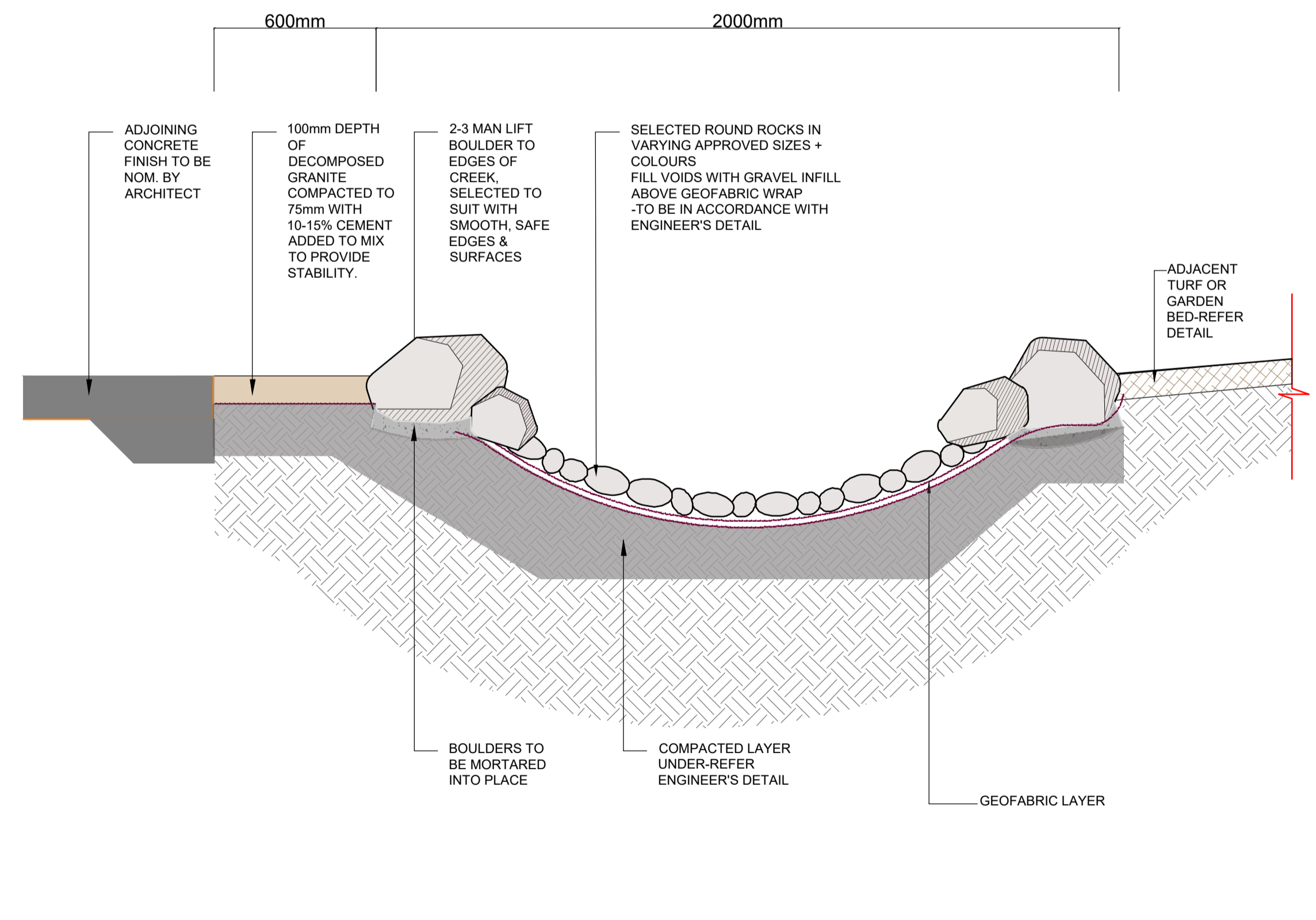
10. TURF WITH STEEL EDGE DETAIL
SCALE: 1:10



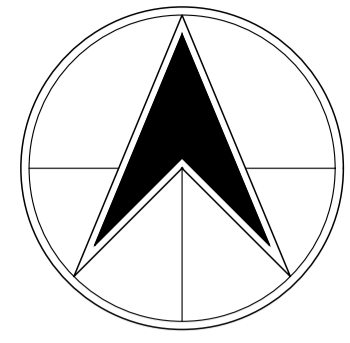
11. DECO-GRANITE SIDE PATH WITH STEEL GARDEN EDGING
SCALE 1:5



12. TYPICAL FOOT BRIDGE
SCALE 1:20



13. TYPICAL DRY RIVER BED TREATMENT
SCALE: N.T.S



SAINT SAVA COLLEGE

381 ST ANDREWS ROAD, VARROVILLE

NEW EDUCATIONAL FACILITY & AMENITIES

THIS DRAWING IS BASED ON THE FOLLOWING LAYOUTS AND MEASUREMENTS
 SURVEY | BCE SURVEYING | 20220909_N1203-01_FEATURE SURVEY PLAN | DATE | 07/09/2022
 ARCH | BKA ARCHITECTURE | A-011|STAGES 2-5 MASTERPLAN - GROUND FLOOR PLAN REV2 | DATE | 26/10/2022

GENERAL NOTES:

- GN1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- GN2. ALL LEVELS ARE IN AUSTRALIAN HEIGHT DATUM.
- GN3. ALL COORDINATES ARE MGA/SCIMS.
- GN4. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- GN5. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS AND MEASUREMENTS SHALL BE TAKEN FROM THE FIGURED DIMENSIONS
- GN6. ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- GN7. THE RECTIFICATION OF ALL MATTERS ARISING FROM INSUFFICIENT INFORMATION BEING SHOWN ON THE SUBMITTED PLANS IS TO BE CARRIED OUT TO THE ENGINEER'S SATISFACTION.
- GN8. LEVELS & ORIENTATION OF DRAINAGE STRUCTURES ARE NOT TO BE ALTERED FROM THAT SHOWN ON THE PLAN AND IS TO BE CHECKED ON COMPLETION BY THE ENGINEER.
- GN9. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SAA CODES AND WITH THE BY-LAWS AND ORDINANCE OF THE RELEVANT BUILDING AUTHORITIES, EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- GN10. ALL WORK IS TO CONFORM TO THE RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE SUPERVISING ENGINEER. ALL WORK MUST BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S OCCUPATIONAL HEALTH AND SAFETY POLICY. COUNCIL'S POLICY SHALL TAKE PRECEDENCE AT ALL TIMES.
- GN11. COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE IS TO BE FELLED, LOPPED, OR REMOVED WITHOUT PRIOR APPROVAL FROM THE COUNCIL'S ENGINEER.
- GN12. ALL EROSION & SEDIMENTATION CONTROL MEASURES ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CODE OF PRACTICE FOR EROSION & SEDIMENTATION & MUST BE IMPLEMENTED PRIOR TO THE COMMENCEMENT OF ANY BUILDING OF CIVIL WORKS. THE CONTRACTOR IS RESPONSIBLE FOR THE ONGOING MAINTENANCE OF EROSION & SEDIMENTATION CONTROL MEASURES.
- GN13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BREACHES OF THE PROTECTION OF THE ENVIRONMENT ACT 1997
- GN14. THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORKS WITHIN ADJACENT LANDS/PROPERTIES WITHOUT THE WRITTEN PERMISSION OF THE SUPERVISING ENGINEER.
- GN15. PROVISION FOR TRAFFIC DURING CONSTRUCTION TO BE IN ACCORDANCE WITH AS 1742.3.
- GN16. PROVIDE SUITABLE ACCESS FOR PEDESTRIANS PAST THE WORK AREA AT ALL TIMES.
- GN17. PROVIDE AND MAINTAIN SUITABLE VEHICLE ACCESS TO EACH PROPERTY UNLESS ALTERNATIVE ARRANGEMENTS ARE MADE WITH THE OCCUPIER. PROVIDE ROAD BASE TO DRIVEWAYS THAT HAVE NOT BEEN CONSTRUCTED THAT ARE AFFECTED BY THE NEW WORK.
- GN18. UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR SHALL SATISFY HIMSELF/HERSELF OF THE CORRECT LOCATIONS OF EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- GN19. ANY WORK ON EXISTING SERVICES THAT REQUIRE RELOCATION BY THE RELEVANT AUTHORITY SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S REQUIREMENTS AND TO THE SATISFACTION OF THE UTILITY AUTHORITY, ALL COORDINATED BY THE CONTRACTOR AND WITHIN THE TERMS OF THE CONTRACT.
- GN20. ALL PAVEMENT MATERIAL TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO NOT LESS THAN 98% MAXIMUM DRY DENSITY BY MODIFIED COMPACTION TEST (AS 1289), UNLESS ADVISED OTHERWISE.
- GN21. ANY EXISTING PAVEMENT MARKINGS OR SIGNPOSTINGS AFFECTED BY THE WORKS MUST BE REPLACED UNLESS SHOWN OTHERWISE ON THE PLANS.
- GN22. ALL DISTURBED AREAS INCLUDING BATTERS AND FOOTPATH AREAS TO BE TOPSOILED AND GRASSED UNLESS OTHERWISE SHOWN.
- GN23. ALL REGRADED AREAS ARE TO BE GRADED TO THE SATISFACTION OF THE ENGINEER.
- GN24. THE CONTRACTOR SHALL REINSTATE ANY GRASSED AREAS OR FOOTPATHS AFFECTED DURING CONSTRUCTION.
- GN25. ALL STORMWATER CONNECTIONS SHALL BE RECONNECTED TO THE DOWNSTREAM STORMWATER SYSTEM.
- GN26. ALL NEW WORKS TO MAKE SMOOTH JUNCTION WITH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.
- GN27. SUBSOIL DRAINAGE TO BE PROVIDED WHERE REQUIRED BY THE SUPERVISING ENGINEER AND AS SHOWN ON THE PLANS.
- GN28. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PARTS SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATION STABLE AT ALL TIMES.
- GN29. ENGINEER TO INSPECT SUBGRADE AND COMPACTION OPERATION PRIOR TO ANY CONCRETE BEING POURED FOR APPROVAL.
- GN30. ENGINEER TO BE NOTIFIED OF ANY WATER IN THE EXCAVATIONS.
- GN31. FILL MATERIAL USED ANYWHERE ON THE SITE IS TO BE APPROVED BY THE ENGINEER.
- GN32. A MINIMUM 50mm APPROVED GRANULAR BEDDING TO BE PROVIDED UNDER ALL CONCRETE.
- GN33. ALL CONCRETE TO HAVE A MINIMUM STRESS GRADE OF N35 UNLESS OTHERWISE NOTED.
- GN34. SURVEY INFORMATION HAS BEEN EXTRACTED FROM BASE INFORMATION SUPPLIED FROM PROUST AND GARDNER.

HYDROLOGICAL SCENARIO DEFINITIONS

EXISTING SCENARIO

- REPRESENTS THE SITE AND EXTERNAL CATCHMENT TO BE IN THE EXISTING RURAL STATE, HOWEVER, INCLUDES THE CONSTRUCTION OF STAGE 1 INCLUDING CHURCH BUILDING, CARPARKS & PLAYING FIELDS [APPROVED UNDER DA3771/2005].

POST DEVELOPED SCENARIO

- REPRESENTS THE EXTERNAL CATCHMENT TO BE IN IT'S EXISTING RURAL STATE AND THE SITE WITH ALL FIVE STAGES CONSTRUCTED INCLUDING FUTURE BUILDINGS AND RECREATIONAL FACILITIES INDICATED IN ARCHITECTURAL LAYOUT.



LOCALITY

DRAWING SCHEDULE

DRAWING	DESCRIPTION	Date		ISSUE No					Sht
		02/11/22	04/11/22						
8035C02-001	COVER SHEET, NOTES & DRAWING SCHEDULE	A	B						01
8035C02-101	STORMWATER MANAGEMENT PLAN	A	B						02
8035C02-102	SOIL AND EROSION CONTROL PLAN	A	B						03
8035C02-201	STORMWATER DETAILS	A	B						04
8035C02-601	CATCHMENT PLAN & HYDROLOGY	A	B						05


SPECIFICATION

DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CURRENT PROJECT SPECIFICATION

FLOOD MANAGEMENT NOTES

- FM1. FLOOD STUDY AND INTERPRETATION OF FLOOD RISK MANAGEMENT STRATEGIES ARE ONLY RELEVANT TO THE SUBJECT SITE AND ONLY FOR THE PURPOSE OF ESTIMATING FINISHED FLOOR LEVELS OF DWELLINGS AND FLOOD DEPTH IMPACTS WITHIN ROAD CARRIAGEWAYS
- FM2. FLOOD ANALYSIS CONSIDERS STORM EVENTS UNDER CERTAIN ASSUMED CONDITIONS WHICH SHOULD BE UNDERSTOOD PRIOR TO VARYING PROPOSED FLOOD MEASURES OR MAKING PLANNING DECISIONS ON BUILDING AND LOT LAYOUTS
- FM3. REFER TO FLOOD RISK ASSESSMENT USED FOR THIS DOCUMENT 'STORMWATER MANAGEMENT AND FLOOD RISK ASSESSMENT REPORT FOR 381 ST ANDREWS RD, VARROVILLE LOTS 3 & 5 DP88405 ST SAVA COLLEGE' OCTOBER 2022 PREPARED BY COHORT ENGINEERING

B	PERIMETER RING ROAD ADDED TO REV 2 ARCHS	04/11/22	GENERAL
A	ORIGINAL ISSUE	02/11/22	GENERAL
ISSUE	DETAILS OR AMENDMENTS	DATE	ZONE



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 4322 6517 www.cohortengineering.com.au
 77 Mann St, Gosford NSW 2250
 Civil, Structural, Hydraulics, Flood, Fire Services, Local Government

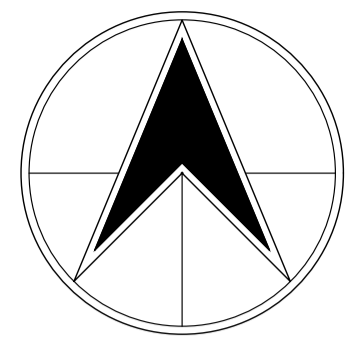
PROJECT **NEW EDUCATIONAL FACILITY & AMENITIES
381 ST ANDREWS RD, VARROVILLE**

TITLE **COVER SHEET, NOTES, DRAWING SCHEDULE**

CLIENT **SAINT SAVA COLLEGE**

DRAWING No. **8035C02-001B** SHT 1/5 DRAWN-DESIGN-VERIFY SS-DS-DS

DEVELOPMENT APPLICATION SUBMISSION



RAINWATER TANK SPECIFICATION

Storage Volume 175 KL
 Internal Area 53.5 sqm
 Average Depth 3.27 m
 Grate Level 111.82 AHD
 Surface Level 111.32 AHD
 Weir Threshold Level 110.60 AHD
 Floor Level 107.33 AHD
 Pipe Outlet Level 108.96 AHD

RAINWATER TANK SPECIFICATIONS REQUIRE CONFIRMATION ON SITE BY ENGINEER

ARBORIST TREE MANAGEMENT MEASURES AND TREE REMOVAL REFER TO DOCUMENTATION PREPARED BY OTHERS

STUDY AREA ASSESSMENT

Site Area	110462 sqm	
Pre development		
Impervious	6407 sqm	6%
Pervious	104055 sqm	94%
Post development		
Impervious	24759 sqm	22%
Pervious	85703 sqm	78%
Impervious Variation	18352 sqm	17%

STORMWATER MANAGEMENT NOTES

- SM1. EXISTING 175-KL RAINWATER TANK TO BE USED FOR NON-POTABLE STORAGE WATER USE, SUCH AS IRRIGATION AND TOILET FLUSHING, IN ACCORDANCE WITH CAMPBELLTOWN COUNCIL'S DCP, FOR THE PURPOSE OF WATER CONSERVATION AND LIMITING STORMWATER PEAK FLOWS AND VOLUMES.
- SM2. ALL BUILDINGS WILL HAVE LEAF GUARD INSTALLED ON ALL ROOF GUTTERS AND RAINWATER TANK WILL BE FITTED WITH A FIRST FLUSH DEVICE.
- SM3. ALL BUILDING DOWNPIPES AND IMPERVIOUS/PAVED AREAS ARE TO BE COLLECTED IN PVC PIPELINES, JOINT GLUE SEALED, AND CONNECTED TO THEIR RESPECTIVE DOWNSTREAM STORMWATER DRAINAGE STRUCTURES.
- SM4. ALL STORMWATER PIPELINES ARE TO BE LAID ON SAND EVENLY GRADED TO THE INVERT LEVEL AND ALL FITTINGS TO BE IN ACCORDANCE WITH AS1260. MIN PIPELINE GRADIENT IS TO BE 1:200.
- SM5. ALL BUILDING DOWNPIPES WILL BE CONNECTED TO THE RAINWATER TANK.
- SM6. ALL STORMWATER GENERATED ON STAGES 2 TO 5 OF THE DEVELOPMENT WILL DRAIN TO THE DESIGNATED OUTLET HEADWALL VIA THE STORMWATER MANAGEMENT BASIN, UON. BIORETENTION FACILITIES WILL BE DESIGNED TO REMOVE NUTRIENTS, OILS, SILTS AND SEDIMENTS FROM STORMWATER RUNOFF IN ACCORDANCE WITH THE WATER SENSITIVE URBAN DESIGN TECHNICAL GUIDELINES FOR WESTERN SYDNEY MAY 2004 AND AUSTRALIAN RAINFALL & RUNOFF WITH THE SYSTEM TO BE MAINTAINED ON A THREE MONTH BASIS.
- SM8. SURFACE INLET GRATES ARE TO BE GALVANISED STEEL FABRICATION AT THE SPECIFIED DIMENSIONS.
- SM9. SUITABLE SUBSOIL DRAINAGE SYSTEMS WILL BE PROVIDED BEHIND ALL RETAINING WALLS AND DWELLING FOOTINGS AND SEEPAGE COLLECTED WILL BE DISCHARGED INTO THE NEAREST DOWNSTREAM STORMWATER PIPED SYSTEM.
- SM10. SUBSOIL DRAINAGE PIPELINE IS A 100mm DIAMETER AGRICULTURE PIPE WITH A FABRIC STOCKING THAT WHEN LAID HAS 100mm OF 10mm AGGREGATE SURROUNDING IT FULLY WITH THE TRENCH.
- SM11. WHERE ANY ISOLATED PROPOSED PIPELINE IS LOCATED WITHIN 2m OF A TREE THAT IS TO BE RETAINED, THE PIPELINE WILL BE THRUST BORED OR HAND/SPADE DUG TO REDUCE THE IMPACT OF EXCAVATION ADJACENT TO THE TREE.
- SM12. STORMWATER MANAGEMENT MODELING TO DATE HAS RELIED UPON THE IMPERVIOUS AREA PRESENTED IN THE DOCUMENTATION AND IF IT IS PROPOSED TO INCREASE ROOF AND IMPERVIOUS AREAS, THIS STORMWATER MANAGEMENT STRATEGY NEEDS TO BE REMODELED AND AMENDED.
- SM13. REFER TO 'Stormwater Management and Flood Risk Assessment Report for 381 St Andrews Rd, Varroville Lots 3 & 5 DP88405 St Sava College', PREPARED BY COHORT ENGINEERING DATED NOVEMBER 2022.

IMPERVIOUS/PERVIOUS AREAS

LEGEND

- IMPERVIOUS AREA, ROOF AND PAVED
- PERVIOUS AREA: LANDSCAPE & FIELDS
- BASIN DETENTION STORAGE ZONE
- BIORETENTION FILTER ZONE
- PROPOSED STORMWATER PIPELINE
- PROPOSED STORMWATER INLET PIT
- PROPOSED STORMWATER DRAINAGE SWALE
- PROPOSED CONTOUR CATCH BERM PLANTED WITH NATIVE GRASSES
- PROPOSED OVERLAND FLOWPATH

STORMWATER MANAGEMENT BASIN SPECIFICATION

COMMISSIONED AT COMPLETION OF STAGE 5
 Breach/Failure 109.90 AHD
 Detention Operating TWL 109.60 AHD
 Extended Detention Operating TWL 109.10 AHD
 Basin Floor 108.80 AHD
 Basin Subgrade 108.00 AHD

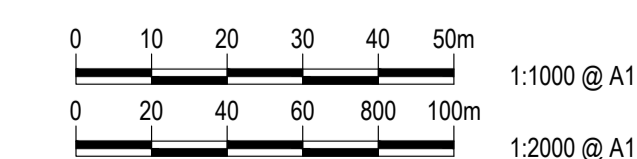
Weir Level 109.60 AHD
 Top of DCP Pit 109.10 AHD
 Low Level Outlet 107.90 AHD
 Upper Level Outlet 109.10 AHD

Basin Freeboard 0.30 m
 Basin Detention Depth 0.50 m
 Extended Basin Detention Depth 0.30 m

Bio-Retention Filter Area [max] 1,226sqm
 Basin Footprint Area 1,868sqm

Extended Detention Storage 465 cum
 Detention Storage [1%AEP] 775 cum

SCALES



SITE LAYOUT
1:1000@A1

B	PERIMETER RING ROAD ADDED TO REV 2 ARCHS	04/11/22	GENERAL
A	ORIGINAL ISSUE	02/11/22	GENERAL
ISSUE	DETAILS OR AMENDMENTS	DATE	ZONE

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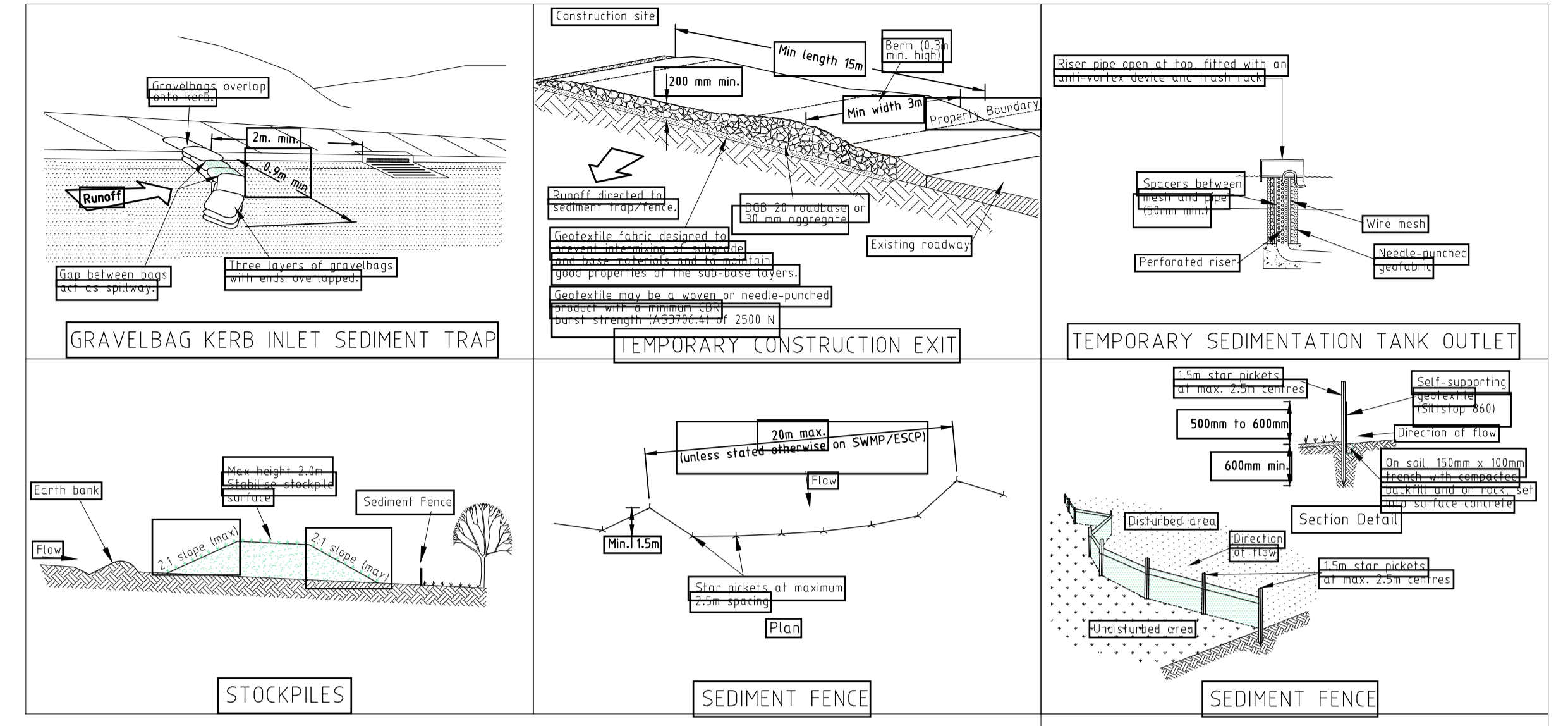
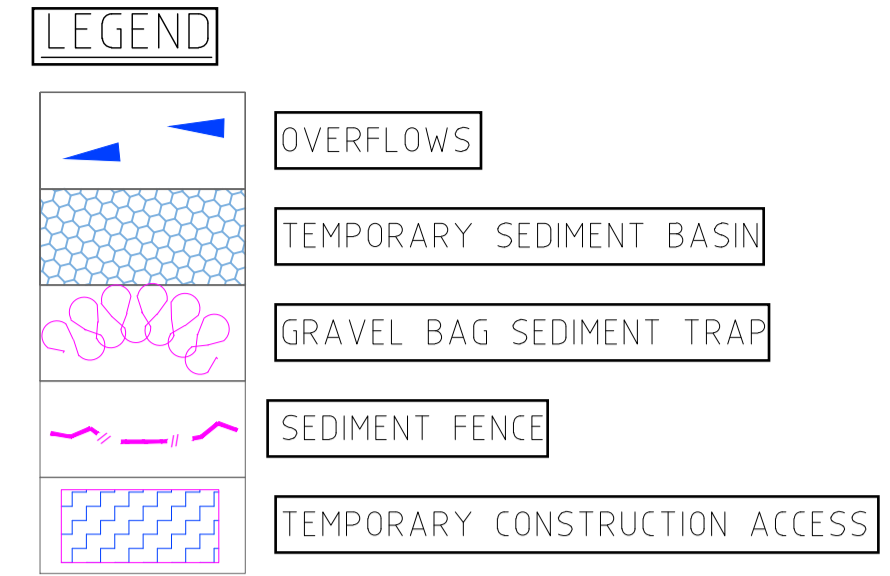
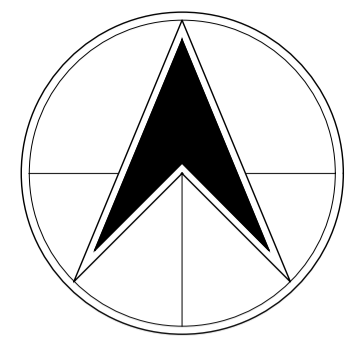
PROJECT **NEW EDUCATIONAL FACILITY & AMENITIES**
381 ST ANDREWS RD, VARROVILLE

TITLE **STORMWATER MANAGEMENT PLAN**

CLIENT **SAINT SAVA COLLEGE**

DRAWING No. **8035C02-101B** SHT 2/5 DRAWN-DESIGN-VERIFY SS-DS-DS

DEVELOPMENT APPLICATION SUBMISSION



EROSION AND SEDIMENT NOTES

ES1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION' PREPARED BY THE DEPARTMENT OF HOUSING, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL.

ES2. EROSION AND SEDIMENT DEVICES TO BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.

ES3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.

ES4. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING UNLESS SILT FENCES ARE ERECTED AROUND PITS.

ES5. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.

ES6. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORK DAY, AND MODIFIED TO BEST SUIT CONDITIONS.

ES7. STORMWATER FROM UPSTREAM OF THE SITE MUST BE CONTROLLED SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.

ES8. ALL CONSTRUCTION VEHICLES SHALL BE INSPECTED BEFORE LEAVING THE SITE.

ES9. SOIL EROSION CONTROL WILL INVOLVE THE COLLECTION AND TREATMENT OF ALL STORMWATER RUNOFF, CONSTRUCTION AND WASHDOWN WATER PRIOR TO IT DRAINING TO THE COUNCIL'S STREET DRAINAGE SYSTEM.

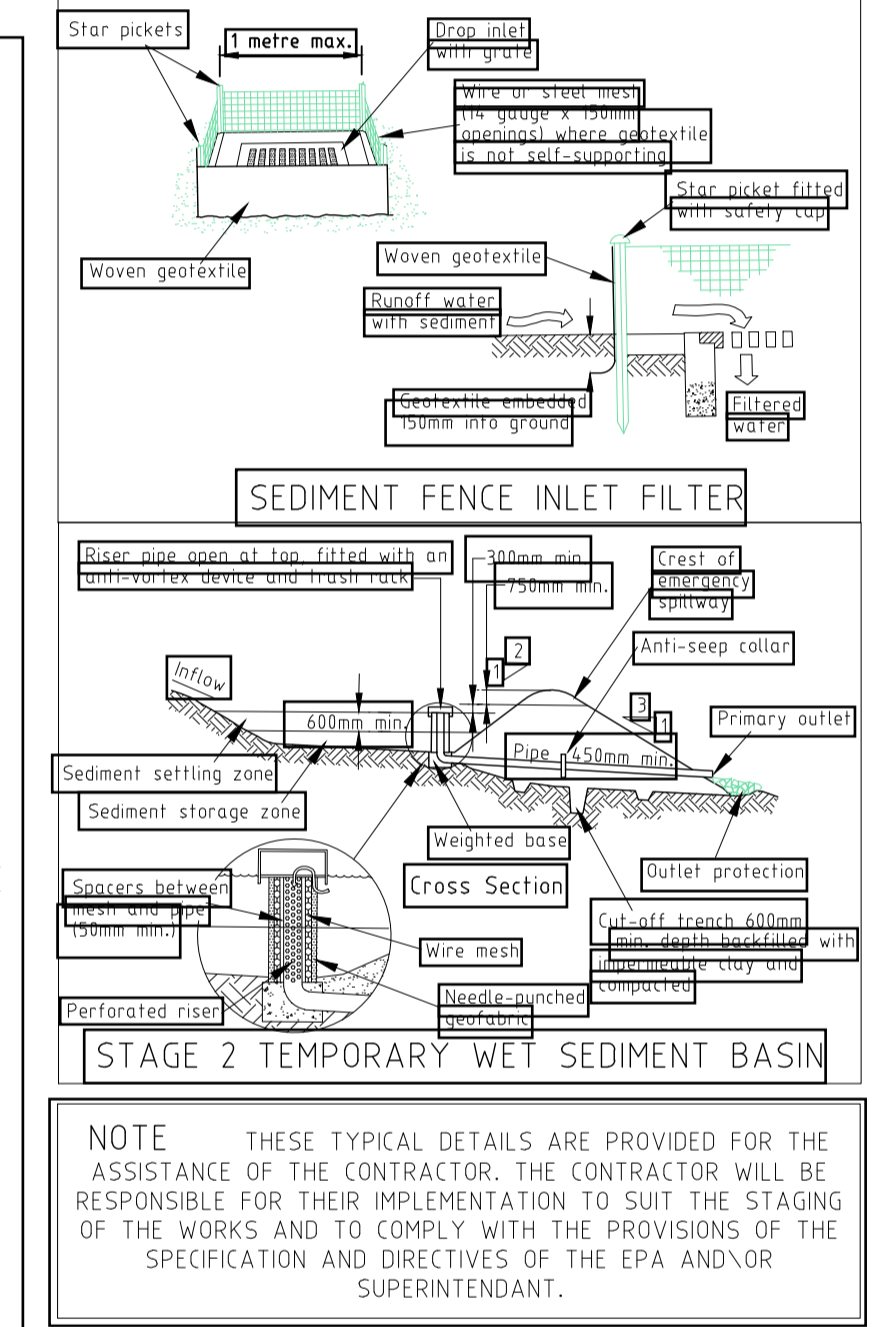
ES10. INSPECT ALL SEDIMENTATION CONTROL DEVICES AFTER EACH STORM EVENT AND AT THE END OF EACH WEEK. DAMAGE TO ANY OF THE STRUCTURES IS TO BE REPAIRED IMMEDIATELY.

ES11. ALL TOPSOIL OR MATERIAL THAT IS REMOVED AS A RESULT OF BULK OR PAVEMENT EXCAVATION SHALL BE STOCKPILED AND LATER REMOVED FROM SITE.

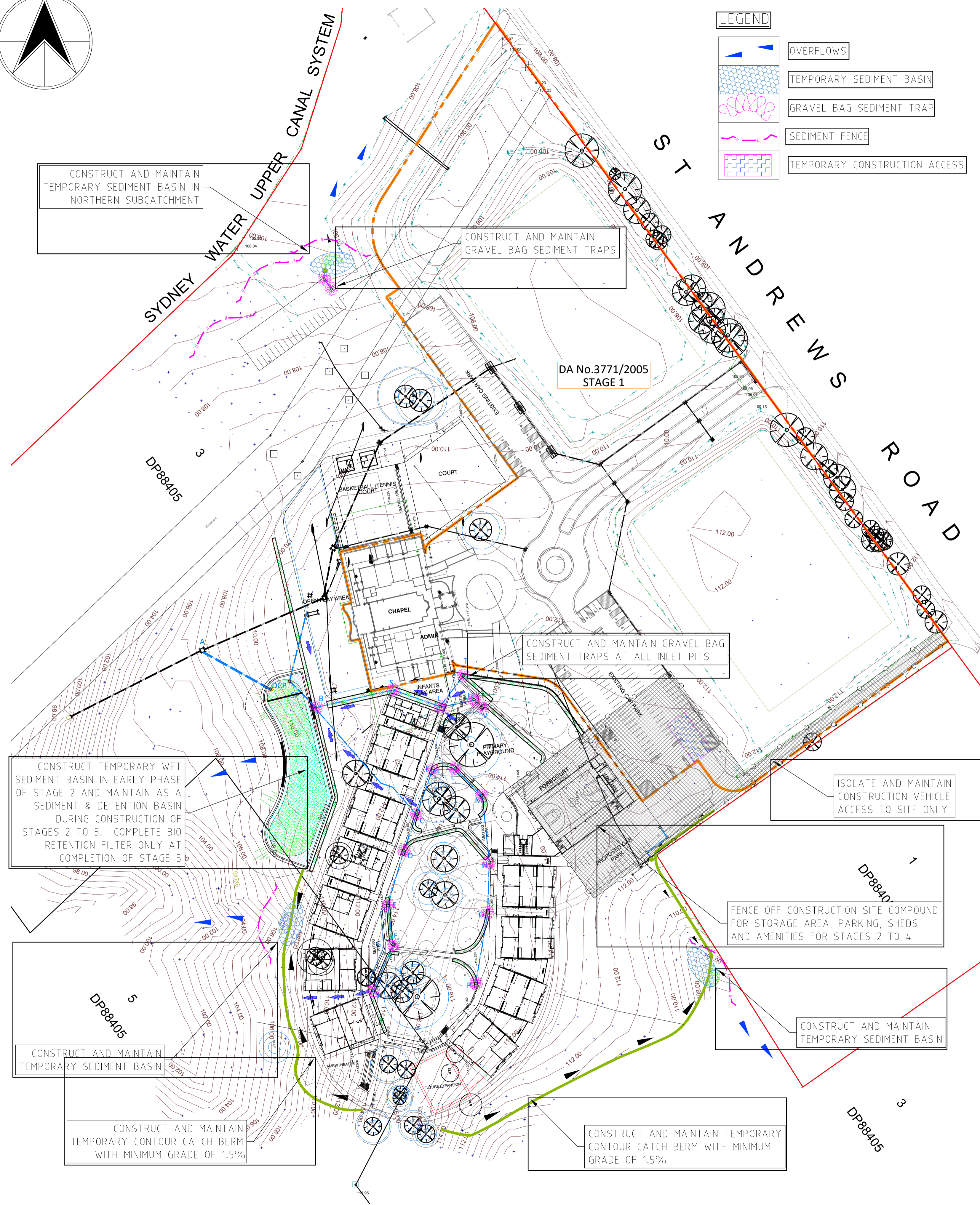
ES12. IMPORTED MATERIAL, TOPSOIL, SANDS AND GRAVELS STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES, FLOWPATHS AND AREAS WHERE WATER MAY CONCENTRATE.

ES13. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 30 DAYS THEN THEY SHALL BE STABILISED BY COVERING WITH A MULCH OR WITH TEMPORARY VEGETATION.

ES14. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE AFTER EXCAVATION.



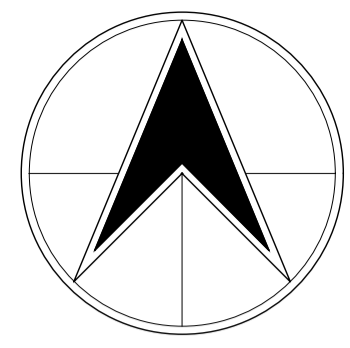
NOTE THESE TYPICAL DETAILS ARE PROVIDED FOR THE ASSISTANCE OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR THEIR IMPLEMENTATION TO SUIT THE STAGING OF THE WORKS AND TO COMPLY WITH THE PROVISIONS OF THE SPECIFICATION AND DIRECTIVES OF THE EPA AND/OR SUPERINTENDANT.



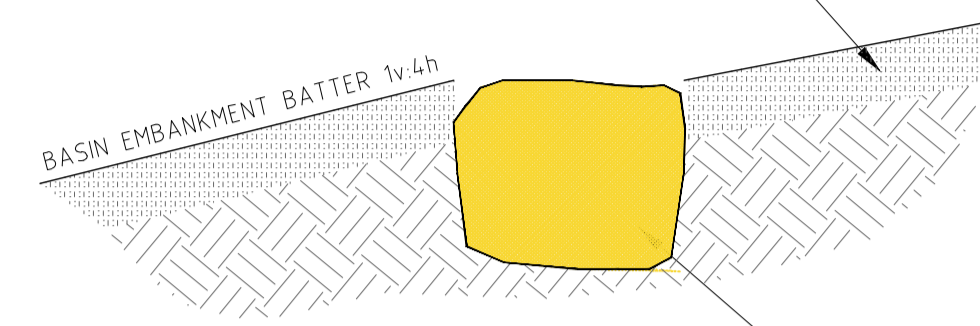
ISSUE	DETAILS OR AMENDMENTS	DATE	ZONE
B	PERIMETER RING ROAD ADDED TO REV 2 ARCHS	04/11/22	GENERAL
A	ORIGINAL ISSUE	02/11/22	GENERAL

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PROJECT	NEW EDUCATIONAL FACILITY & AMENITIES 381 ST ANDREWS RD, VARROVILLE	
TITLE	SOIL AND EROSION CONTROL PLAN	
CLIENT	SAINT SAVA COLLEGE	
DRAWING No.	8035C02-102B	SHT 3/5
		DRAWN-DESIGN-VERIFY SS-DS-DS

DEVELOPMENT APPLICATION SUBMISSION



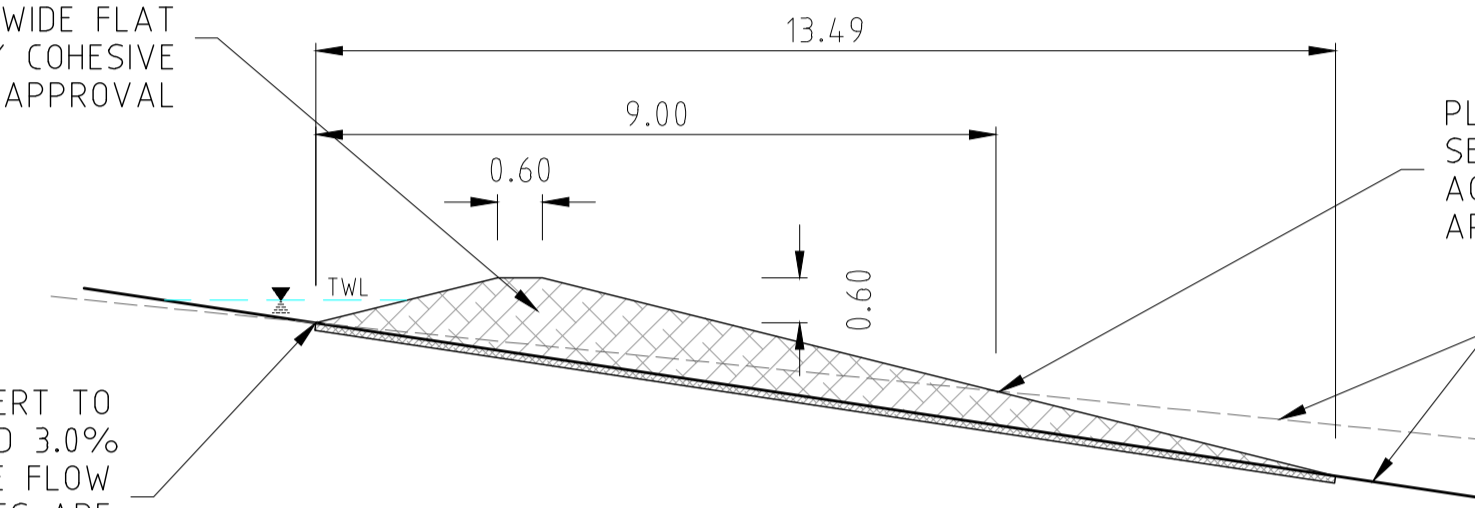
PLACE AND COMPACT SELECTED TOPSOIL 200mm LAYER AND PLANT WITH SPECIES OUTLINED IN SCHEDULE A SHT001 UNO



SUPPLY, PLACE & INTERCONNECT SANDSTONE ROUGH SAWN BLOCKS TO PROVIDE SEPARATION. 0.5m WIDE x MIN 0.5m DEEP x MIN 1.0m LONG SANDSTONE BLOCKS.

TYPICAL SECTION SANDSTONE ROCK GROIN
NTS

COMPACT 600mm HIGH FILL BERM WITH 1V:4H BATTERS AND 600mm WIDE FLAT TOP WITH SELECTED CLAYEY COHESIVE MATERIAL TO ENGINEER'S APPROVAL

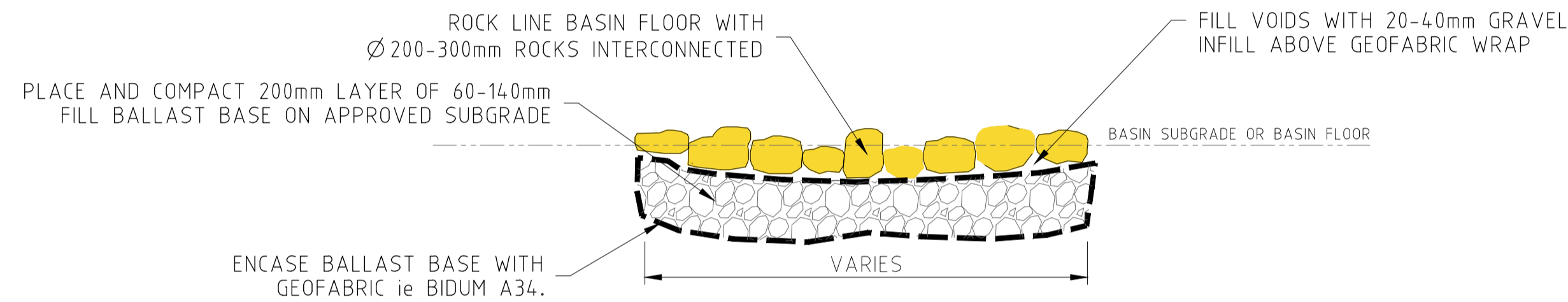


PLANT NEW FILL BATTER WITH SELECTED NATIVE GRASSES IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS

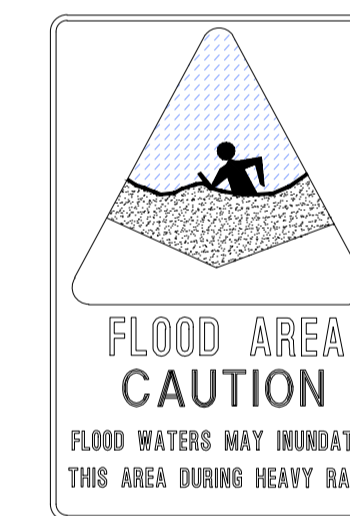
EXISTING NATURAL TOPOGRAPHY VARIES BETWEEN 10% AND 15%

CONTOUR CATCH BERM INVERT TO GRADE BETWEEN 1.5% AND 3.0% TO LIMIT EROSION FLOW VELOCITIES. IF HIGH GRADES ARE REQUIRED CONSULT WITH ENGINEER FOR ALTERNATE SOLUTION

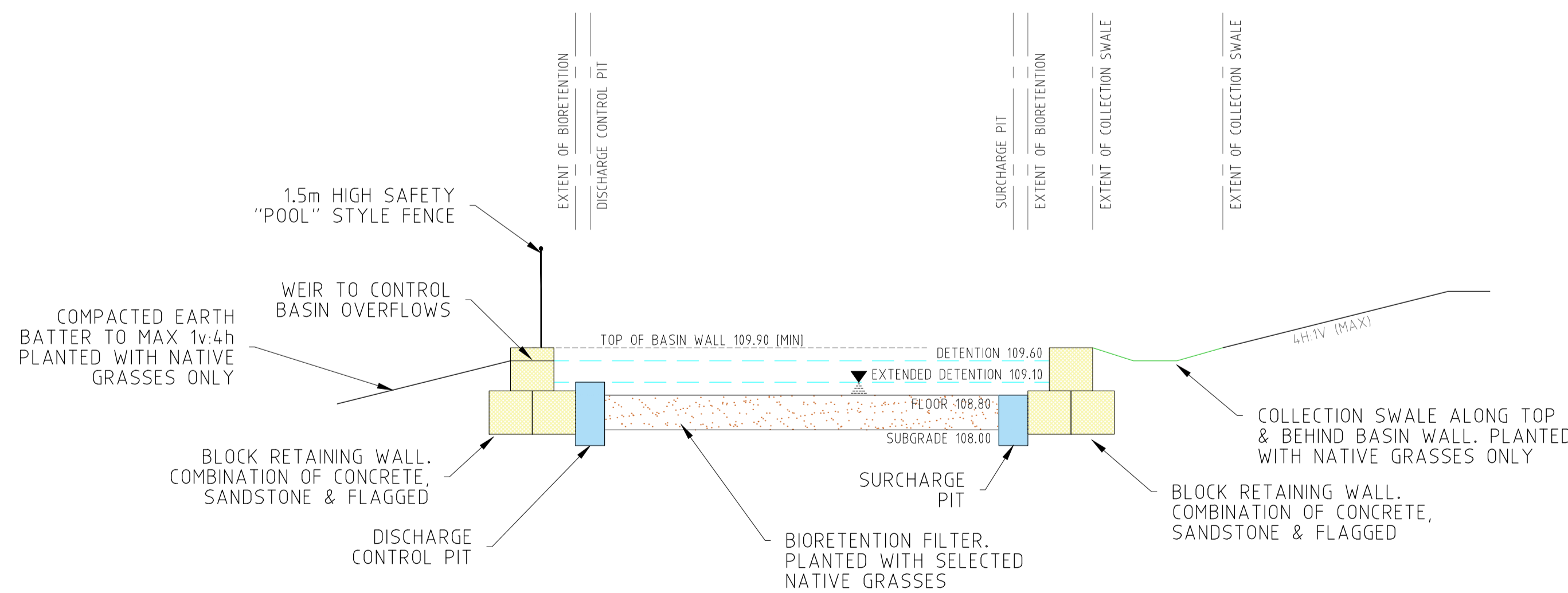
TYPICAL SECTION CONTOUR CATCH BERM
NTS



TYPICAL SECTION ROCK APRON SCOUR PROTECTION
N.T.S.



BASIN SIGN



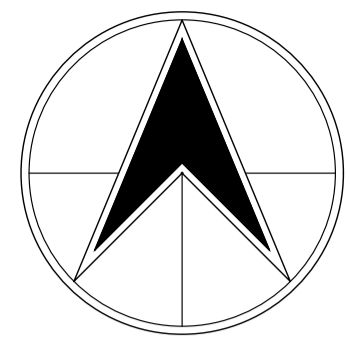
TYPICAL SECTION STORMWATER MANAGEMENT BASIN
1:100

ISSUE	DETAILS OR AMENDMENTS	DATE	ZONE
B	PERIMETER RING ROAD ADDED TO REV 2 ARCHS	04/11/22	GENERAL
A	ORIGINAL ISSUE	02/11/22	GENERAL

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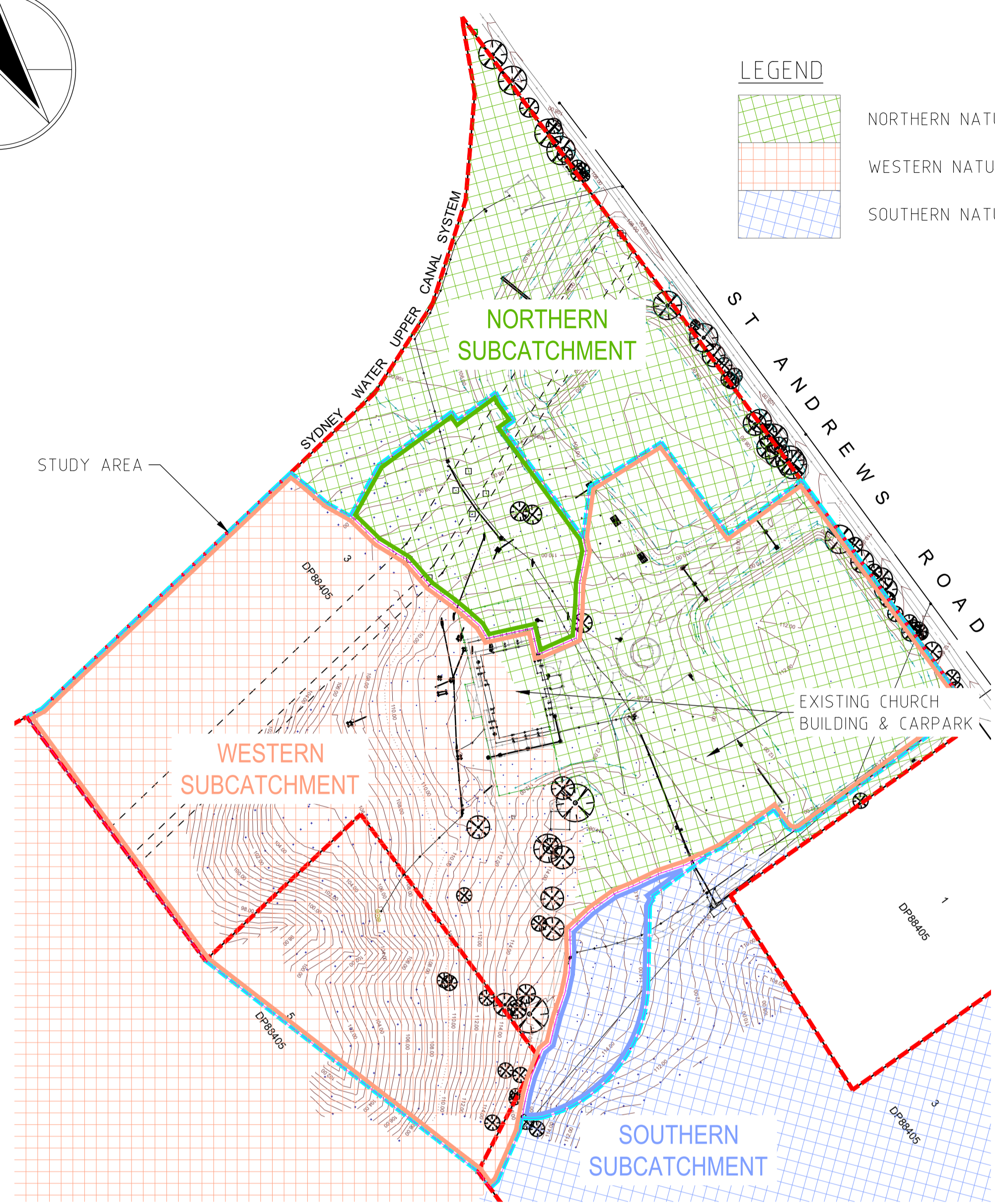
PROJECT	NEW EDUCATIONAL FACILITY & AMENITIES 381 ST ANDREWS RD, VARROVILLE		
TITLE	STORMWATER DETAILS		
CLIENT	SAINT SAVA COLLEGE		
DRAWING No.	8035C02-201B	SHT 4/5	DRAWN-DESIGN-VERIFY SS-DS-DS

DEVELOPMENT APPLICATION SUBMISSION

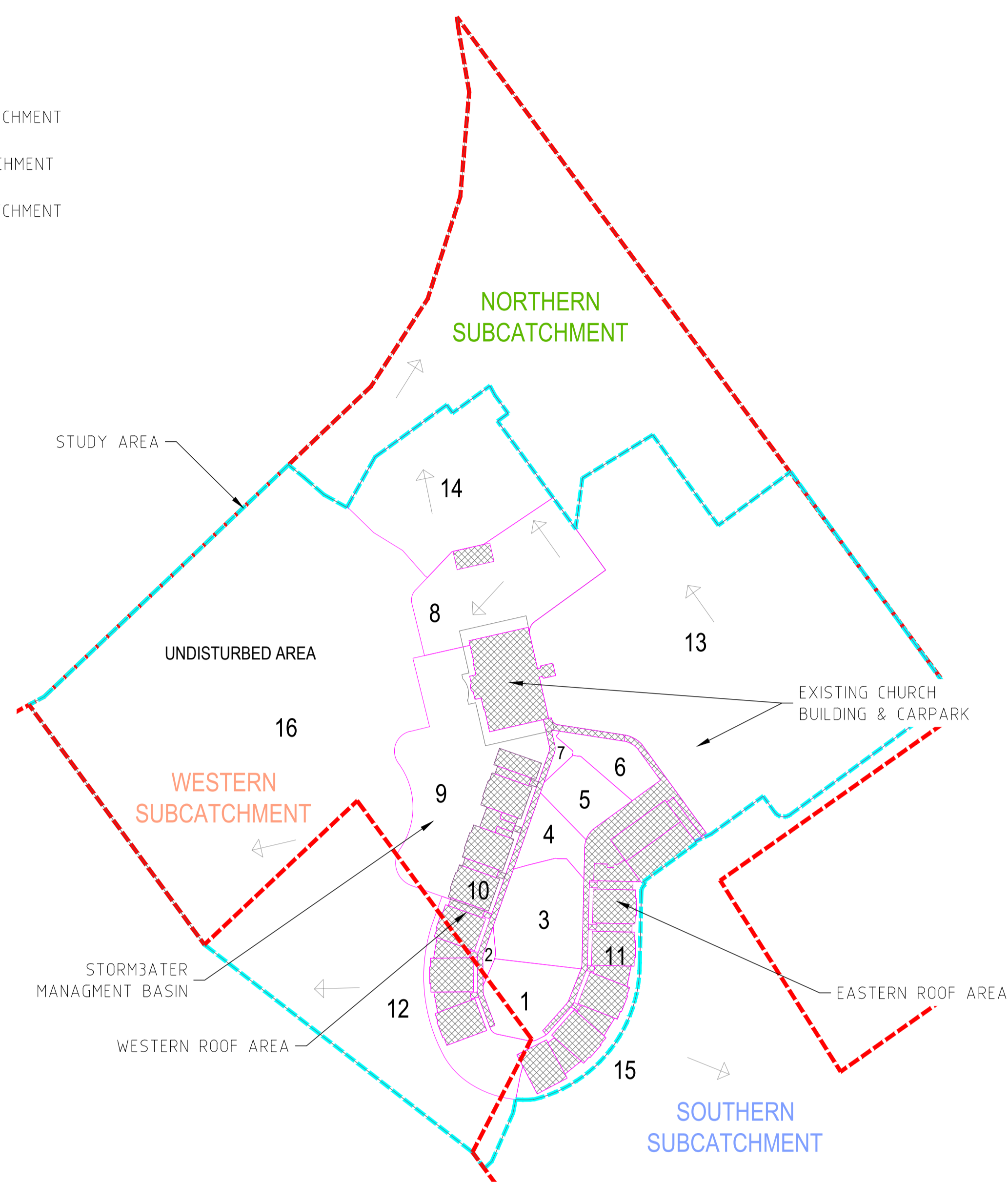


LEGEND

	NORTHERN NATURAL SUBCATCHMENT
	WESTERN NATURAL SUBCATCHMENT
	SOUTHERN NATURAL SUBCATCHMENT



EXISTING CATCHMENT AREAS
1:2000@A1



PROPOSED CATCHMENT AREAS
1:2000@A1

CATCHMENT AREAS & IMPERVIOUS RATIOS

Catchment	Area [sqm]	Imper %	Runoff C	5% AEP [l/s]	Runoff C	1% AEP [l/s]
1	1656	50%	0.64	55	0.73	84
2	114	100%	0.95	8	1.00	11
3	2418	50%	0.64	77	0.73	116
4	894	50%	0.64	32	0.73	48
5	1162	50%	0.64	41	0.73	63
6	957	50%	0.64	34	0.73	52
7	155	100%	0.95	10	1.00	15
8	4553	80%	0.82	185	0.94	282
9	5503	80%	0.82	223	0.94	341
10	6308	100%	0.95	285	1.00	398
11	5332	100%	0.95	250	1.00	351
12	1593	50%	0.64	53	0.73	80
14	6121	20%	0.46	127	0.53	196
15	987	35%	0.55	30	0.63	46

BASED ON RATIONAL METHOD FOR A QUICK REFERENCE ON POSSIBLE FLOWS

LEGEND

3	CATCHMENT ID
	STORMWATER DRAINAGE DIRECTION

HYDROLOGY

Parameters		Annual Exceedance Probability						
		1EY	50%	20%	10%	5%	2%	1%
EXISTING CATCHMENT SCENARIO		11.05-ha @ 10% Impervious						
Northern Subcatchment	1.0-ha cum/s	0.04	0.07	0.16	0.22	0.30	0.60	0.84
Western Subcatchment	9.6-ha cum/s	0.30	0.52	1.18	1.55	1.91	2.30	2.62
Southern Subcatchment	0.5-ha cum/s	0.03	0.05	0.10	0.14	0.17	0.19	0.23
DEVELOPED CATCHMENT SCENARIO		11.05-ha @ 22% Impervious						
Northern Subcatchment	0.6-ha cum/s	0.03	0.06	0.12	0.16	0.20	0.24	0.28
Western Subcatchment Basin Inlet	cum/s	0.64	0.88	1.66	2.19	2.67	3.29	3.84
Western Subcatchment with Basin	10.3-ha cum/s	0.1	0.49	1.06	1.40	1.75	2.23	2.53
Estimated Basin TWL	AHD	109.14	109.15	109.23	109.27	109.34	109.46	109.55
Southern Subcatchment	0.1-ha cum/s	0.01	0.02	0.03	0.03	0.04	0.05	0.06

* DRAINS calculations include the provision of extended detention and detention storage within the Stormwater Management Basin as presented in 'Stormwater Management and Flood Risk Assessment Report for 381 St Andrews Rd, Varroville'.

STORMWATER TREATMENT STRATEGY - MUSIC RESULTS

PROPOSED DEVELOPED CATCHMENT - STAGES 2 TO 5
 DEVELOPED SUBCATCHMENT AREA - 38,644sqm @ 46% IMPERVIOUS
 CONTRIBUTING CATCHMENTS INTO BASIN 24,499sqm @ 55% IMPERVIOUS
 RAINWATER TANK - 175KL PLUMBED TO TOILET FLUSHING & IRRIGATION.
 BIORETENTION FILTER AREA 1226sqm @ 5% OF IMPERVIOUS CATCHMENT
 POLLUTION PARAMETER REDUCTIONS - FLOW 11%, TSS 89%, TP 75%, TN 57% GP 100%

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PROJECT: NEW EDUCATIONAL FACILITY & AMENITIES
 381 ST ANDREWS RD, VARROVILLE

TITLE: CATCHMENT PLAN & HYDROLOGY

CLIENT: SAINT SAVA COLLEGE

DRAWING No. 8035C02-601B SHT 5/5 DRAWN-DESIGN-VERIFY SS-DS-DS

DEVELOPMENT APPLICATION SUBMISSION