

PROPOSED CHILD CARE CENTRE

7 YATES AVENUE, DUNDAS VALLEY, 2117  
LOT 599 DP 36700 | PARRAMATTA COUNCIL



REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22



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PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
COVER PAGE

PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
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# PROPOSED CHILD CARE CENTRE

7 YATES AVENUE, DUNDAS VALLEY, 2117  
LOT 599 DP 36700 | PARRAMATTA COUNCIL

## COMPLIANCE TABLE

ITEM		PROPOSED	STANDARD	COMPLIANCE	
A	SITE AREA		1,279.3 m²	-	-
B	SETBACK				
		FRONT	7.6 m	5.5 m	YES
		REAR	10.900 m	-	
		SIDE	2.0 m	0.9 m	YES
C	GROSS FLOOR AREA				
		LOWER GROUND FLOOR	73 m²	-	
		GROUND FLOOR	363 m²	-	
		FIRST FLOOR	436 m²	-	
D	FSR		436m² 0.34 : 1	0.50 : 1	YES
E	HEIGHT		8.0m	9.0 m	YES
F	LANDSCAPE AREA		735m² 58%	-	
G	DEEP SOIL		419m² 32%	-	
H	CHILDCARE				
		NUMBER OF CHILDREN			
		0-2 YEARS	8 KIDS	-	YES
		2-3 YEARS	25 KIDS	-	YES
		3-5 YEARS	50 KIDS	-	YES
		TOTAL NO.	83 KIDS	-	YES
		NUMBER OF TEACHERS			
		0-2 YEARS	2 TEACHERS	1:4 KIDS	YES
		2-3 YEARS	5 TEACHERS	1:5 KIDS	YES
		3-5 YEARS	5 TEACHERS	1:10 KIDS	YES
		TOTAL NO.	12 TEACHERS	-	YES
		INDOOR PLAY AREA			
		0-2 YEARS	26 m²	3.25 m² / KID	YES
		2-3 YEARS	81.25 m²	3.25 m² / KID	YES
		3-5 YEARS	162.5 m²	3.25 m² / KID	YES
		TOTAL AREA	269.75 m²	3.25 m² / KID	YES
		OUTDOOR PLAY AREA			
		TOTAL AREA	581 m²	7 m² / KID	YES
		H	CAR PARKING		
		DISABLED	1 SPACE	-	
		TEACHERS	12 SPACES	-	
		VISITORS	9 SPACES	-	
		TOTAL CAR SPACES	22 SPACES	21 SPACES	YES

## SHEET LIST

00	COVER PAGE
01	COMPLIANCE TABLE
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03	SITE ANALYSIS PLAN
04	DEMOLITION PLAN
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19	CALCULATION PLAN - GROUND FLOOR
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22	CALCULATION PLAN 3-5 INDOOR PLAY AREA
23	SOLAR STUDY PLAN - GROUND FLOOR
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26	ACCESS DETAIL - LOWER GROUND FLOOR
27	ACCESS DETAIL - GROUND FLOOR
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29	NOTIFICATION ELEVATION

## LOCATION PLAN

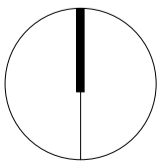


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01

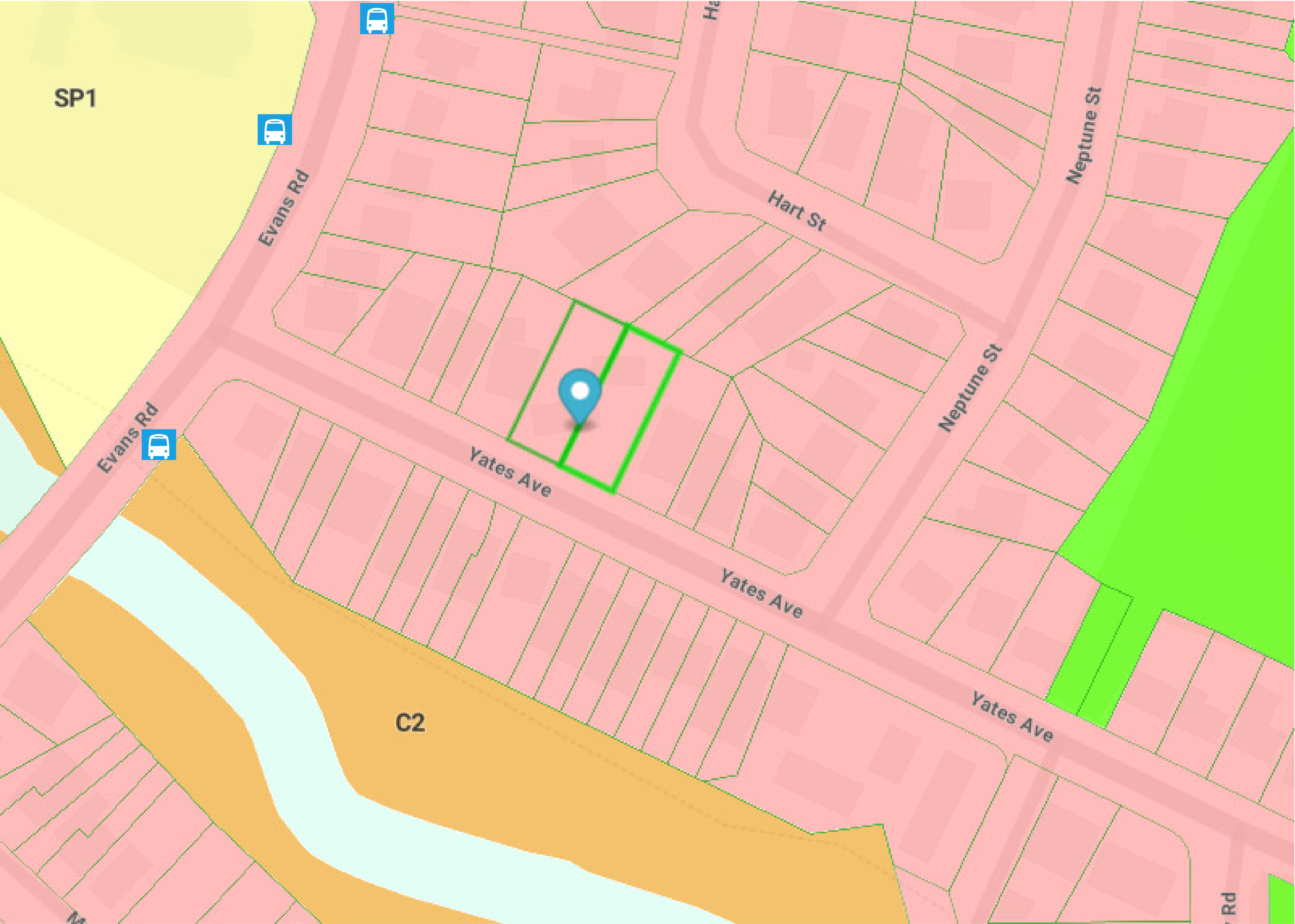
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




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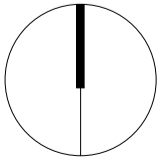
KEY

BUS STOP		SP1 SPECIAL ACTIVITIES EDUCATIONAL ESTABLISHMENT & PLACE OF WORSHIP	
R2 LOW DENSITY RESIDENTIAL		W1 NATURAL WATERWAYS	
R3 MEDIUM DENSITY RESIDENTIAL		RE1 PUBLIC RECREATION	



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1 SITE ANALYSIS PLAN  
1 : 100

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YATES

AVENUE



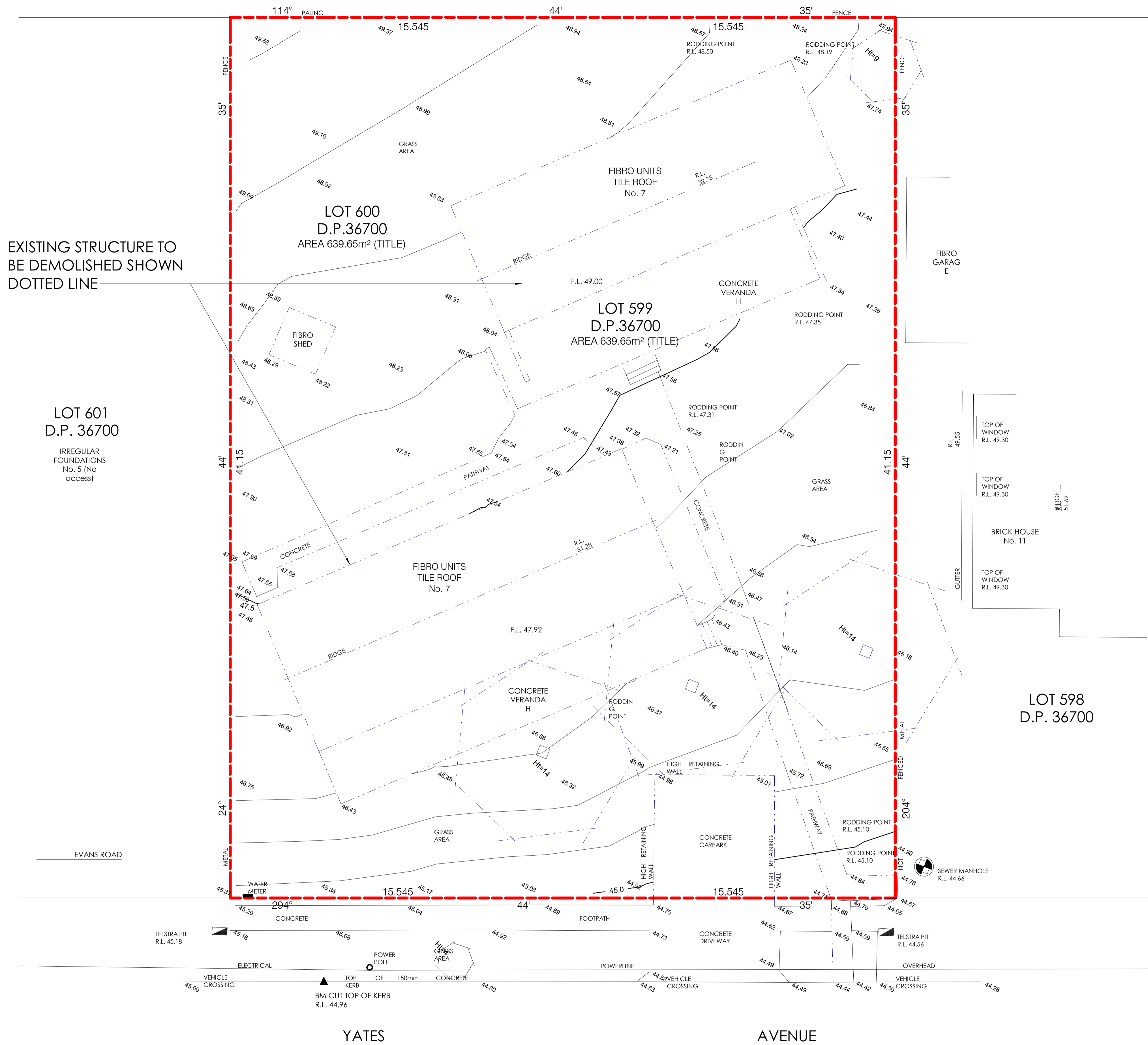
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1 DEMOLITION PLAN  
1 : 100

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KEY

SITE BOUNDARY



DEMOLISHED



CIRCULATION SPACE



EXISTING STRUCTURE



PROPOSED STRUCTURE



AREA CALC.



0 - 2 INDOOR PLAY AREA



2 - 3 INDOOR PLAY AREA

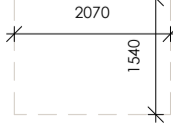


3 - 5 INDOOR PLAY AREA



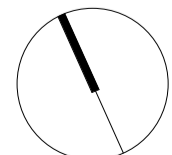
NOTE

RECESSED FLOOR TRACKS TO BE USED  
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DEMOLITION PLAN

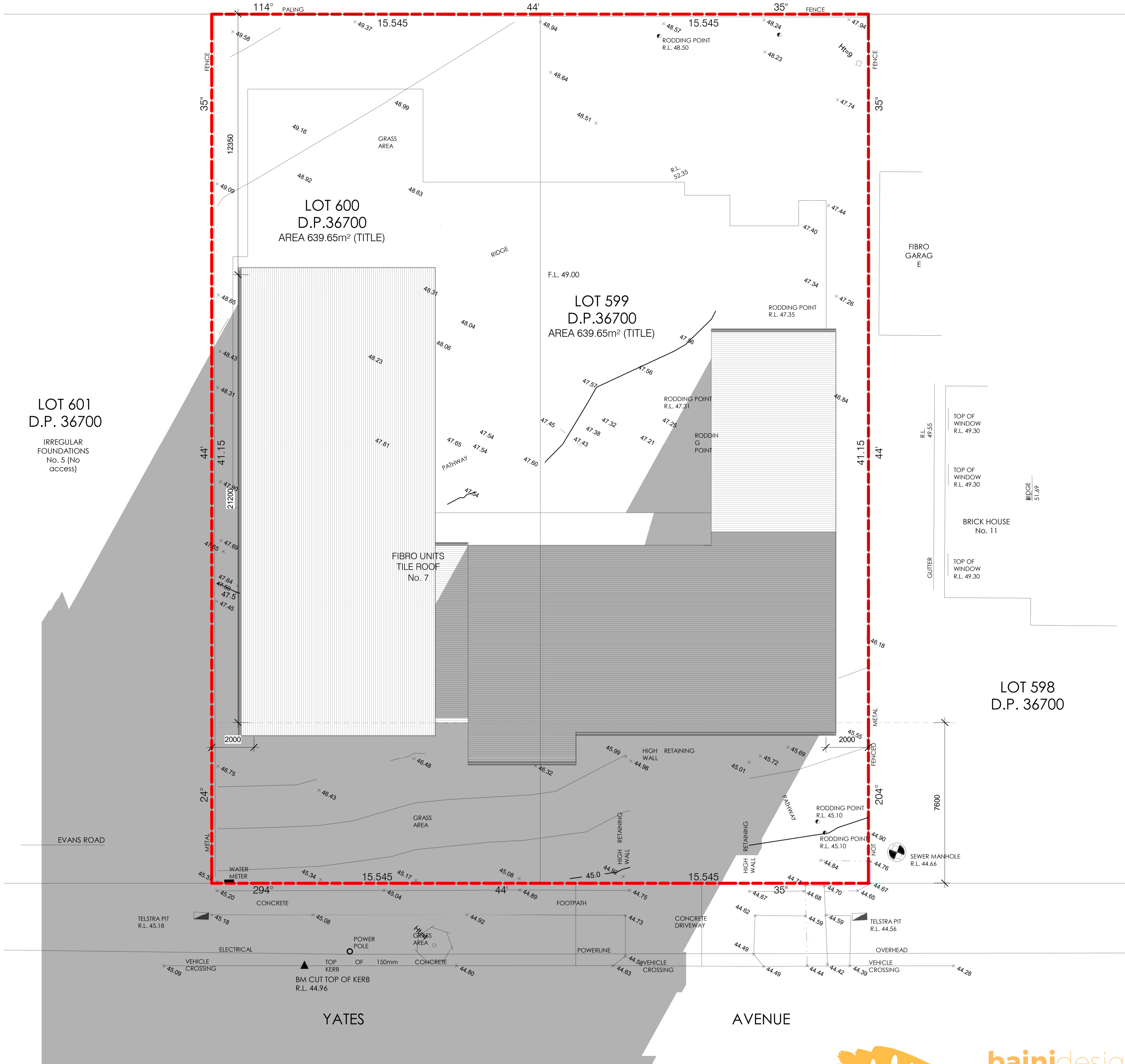


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1 9 AM SHADOW DIAGRAM  
1 : 100

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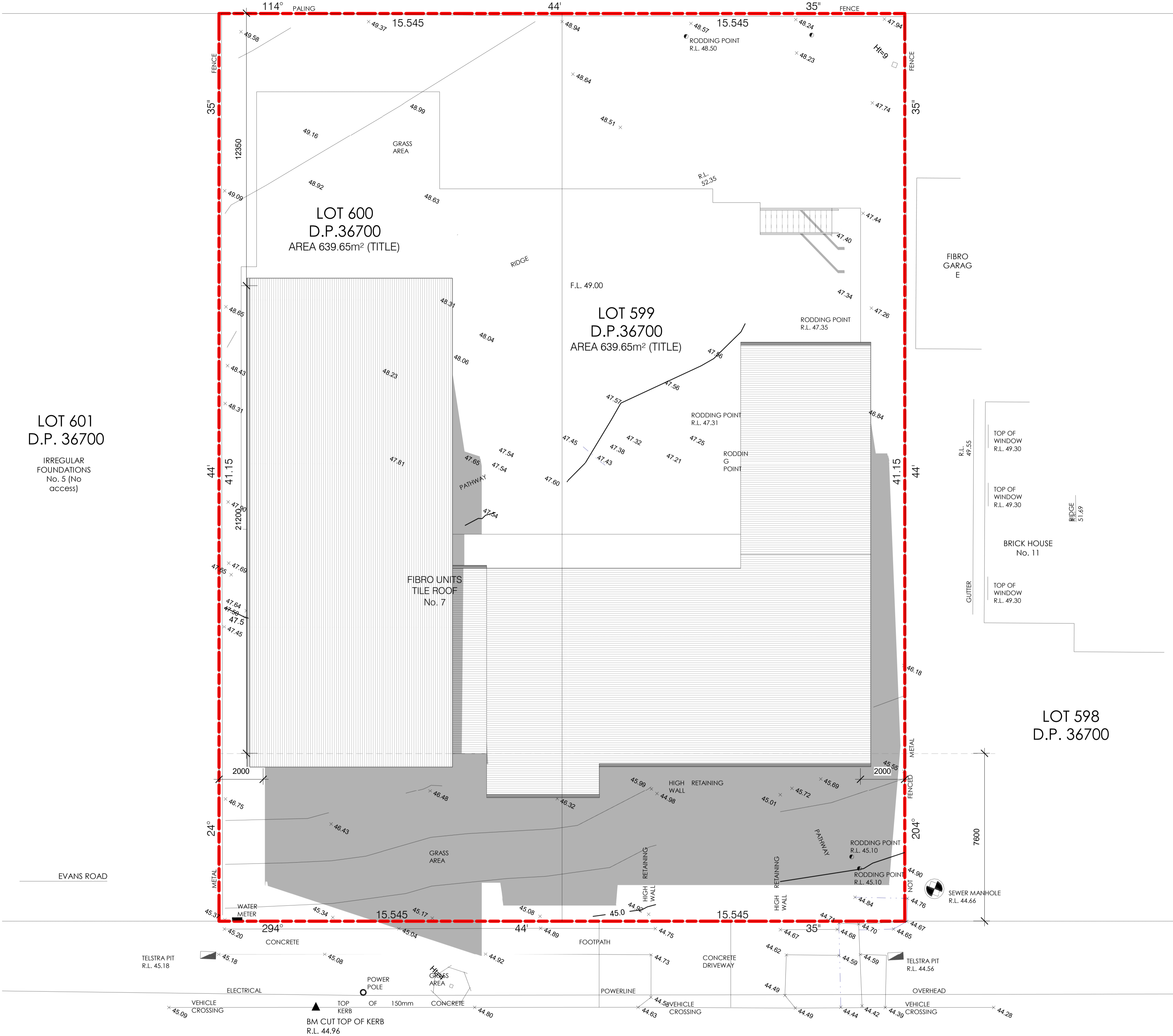
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9 AM SHADOW DIAGRAM

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1 12 PM SHADOW DIAGRAM  
1 : 100

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YATES

AVENUE



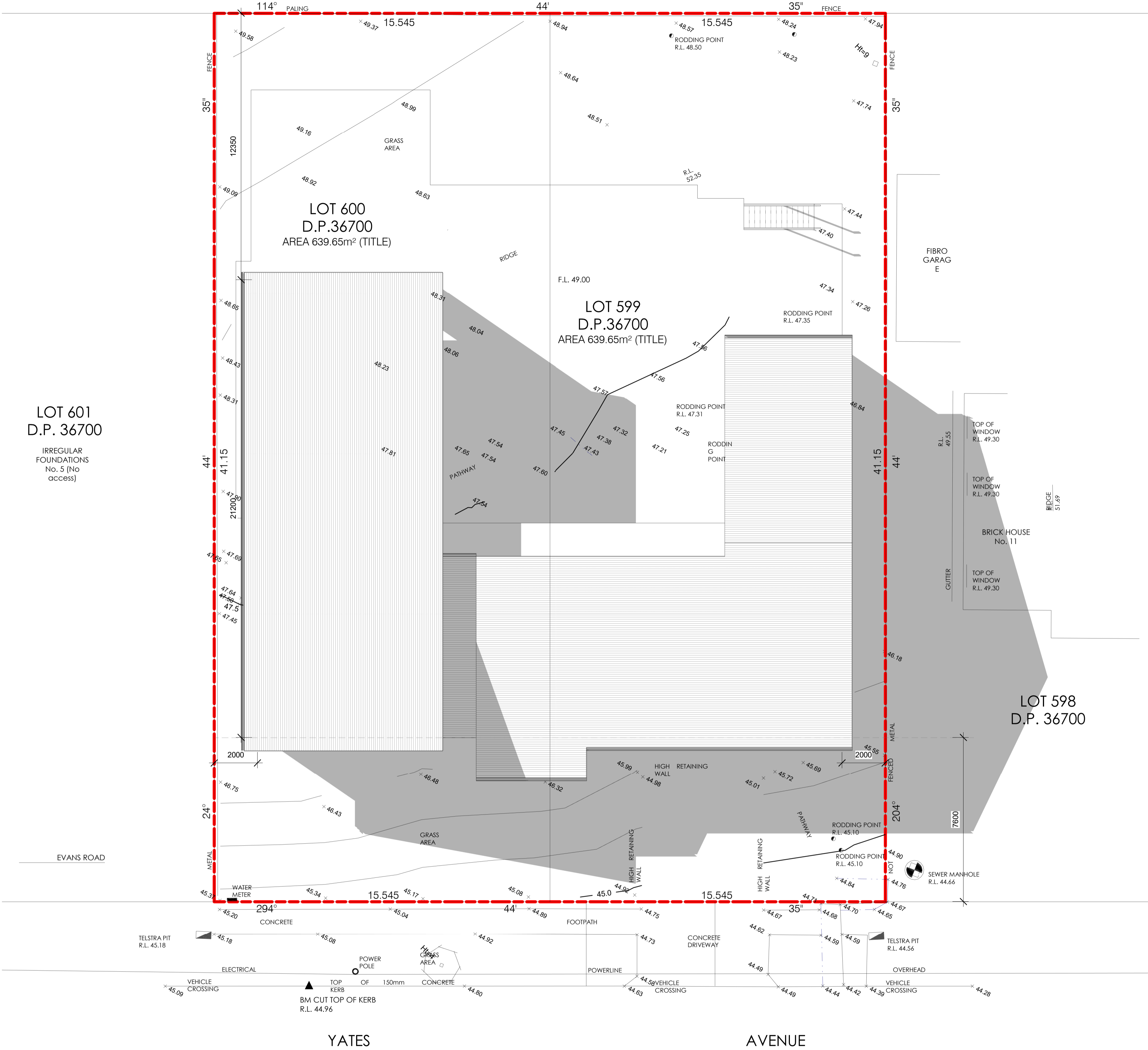
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12 PM SHADOW DIAGRAM

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1 3 PM SHADOW DIAGRAM  
1 : 100

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YATES AVENUE



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DRAWING TITLE  
3 PM SHADOW DIAGRAM

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1 Site Plan  
1 : 100

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KEY

SITE BOUNDARY



DEMOLISHED



CIRCULATION SPACE



EXISTING STRUCTURE



PROPOSED STRUCTURE



AREA CALC.



0 - 2 INDOOR PLAY AREA



2 - 3 INDOOR PLAY AREA

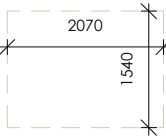


3 - 5 INDOOR PLAY AREA



NOTE

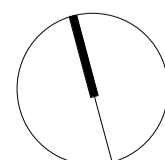
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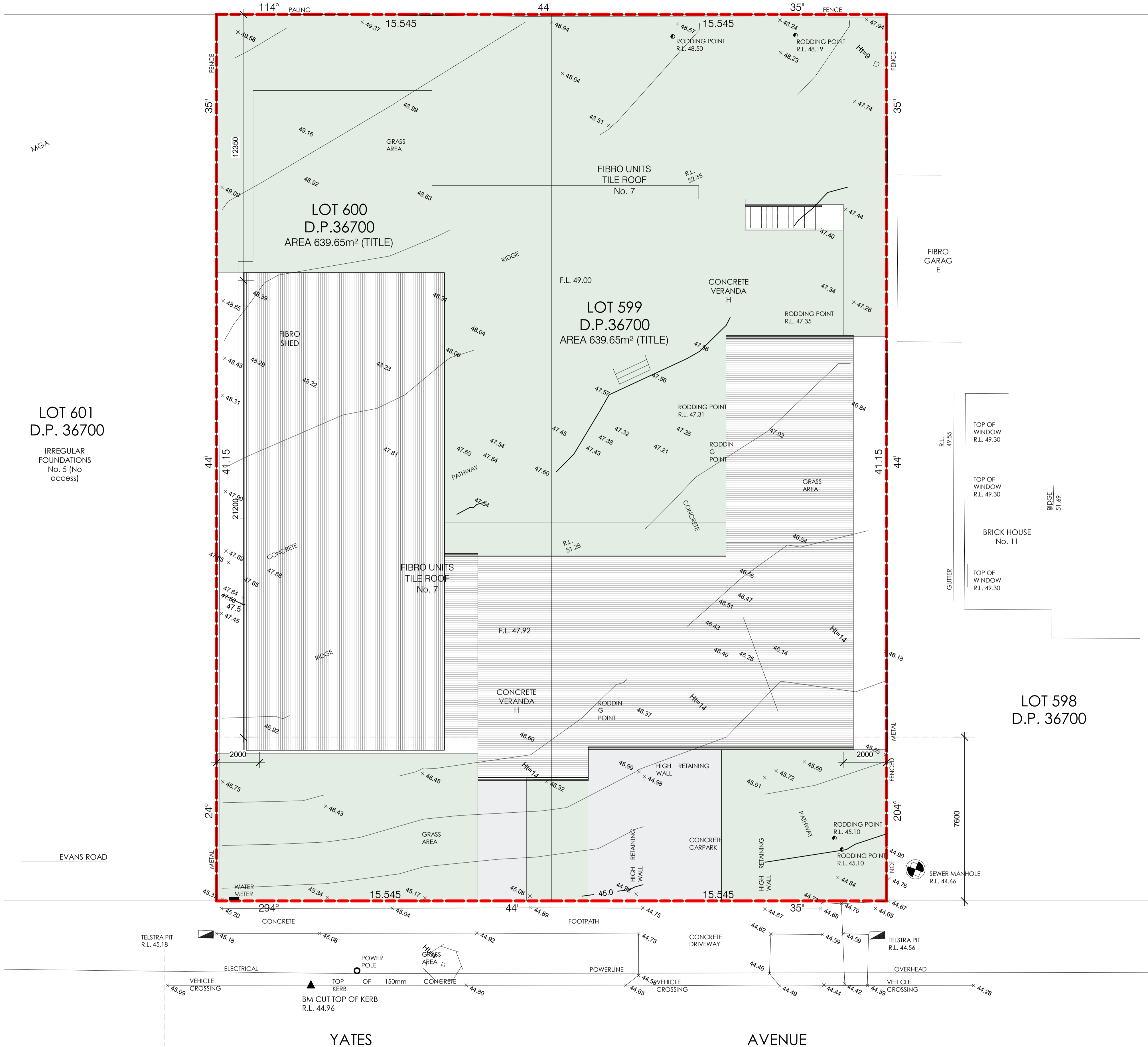
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SITE PLAN



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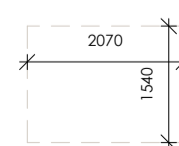
1 LOWER GROUND FLOOR  
1 : 100

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KEY	
SITE BOUNDARY	- - - - -
DEMOLISHED	- - - - -
CIRCULATION SPACE	

EXISTING STRUCTURE		0 - 2 INDOOR PLAY AREA	
PROPOSED STRUCTURE		2 - 3 INDOOR PLAY AREA	
AREA CALC.		3 - 5 INDOOR PLAY AREA	

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DRAWING TITLE  
LOWER GROUND FLOOR

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1 GROUND FLOOR  
1 : 100

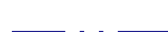
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SITE BOUNDARY



DEMOLISHED



CIRCULATION SPACE



EXISTING STRUCTURE



PROPOSED STRUCTURE



AREA CALC.



0 - 2 INDOOR PLAY AREA



2 - 3 INDOOR PLAY AREA

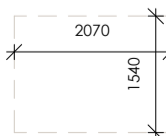


3 - 5 INDOOR PLAY AREA



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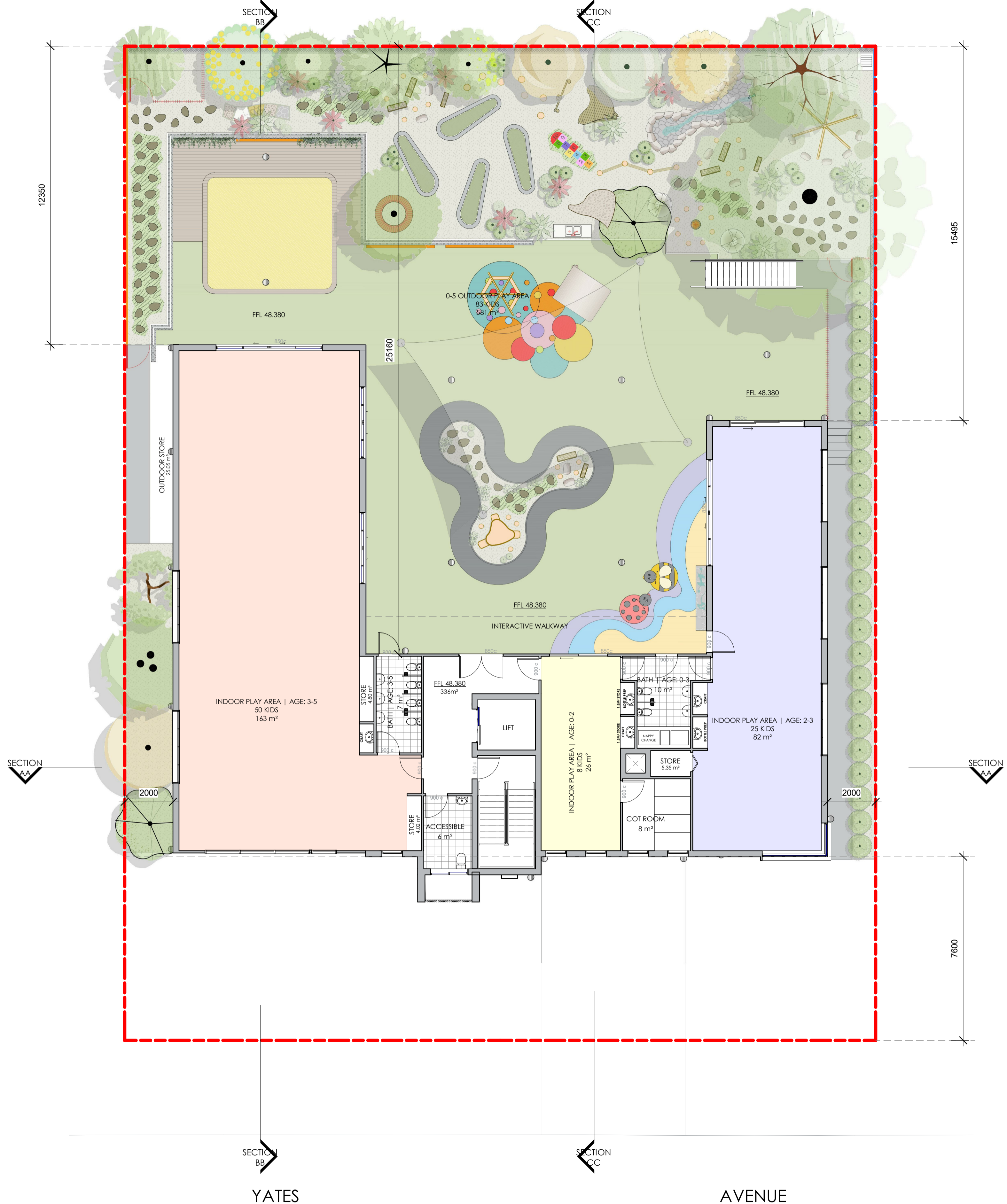


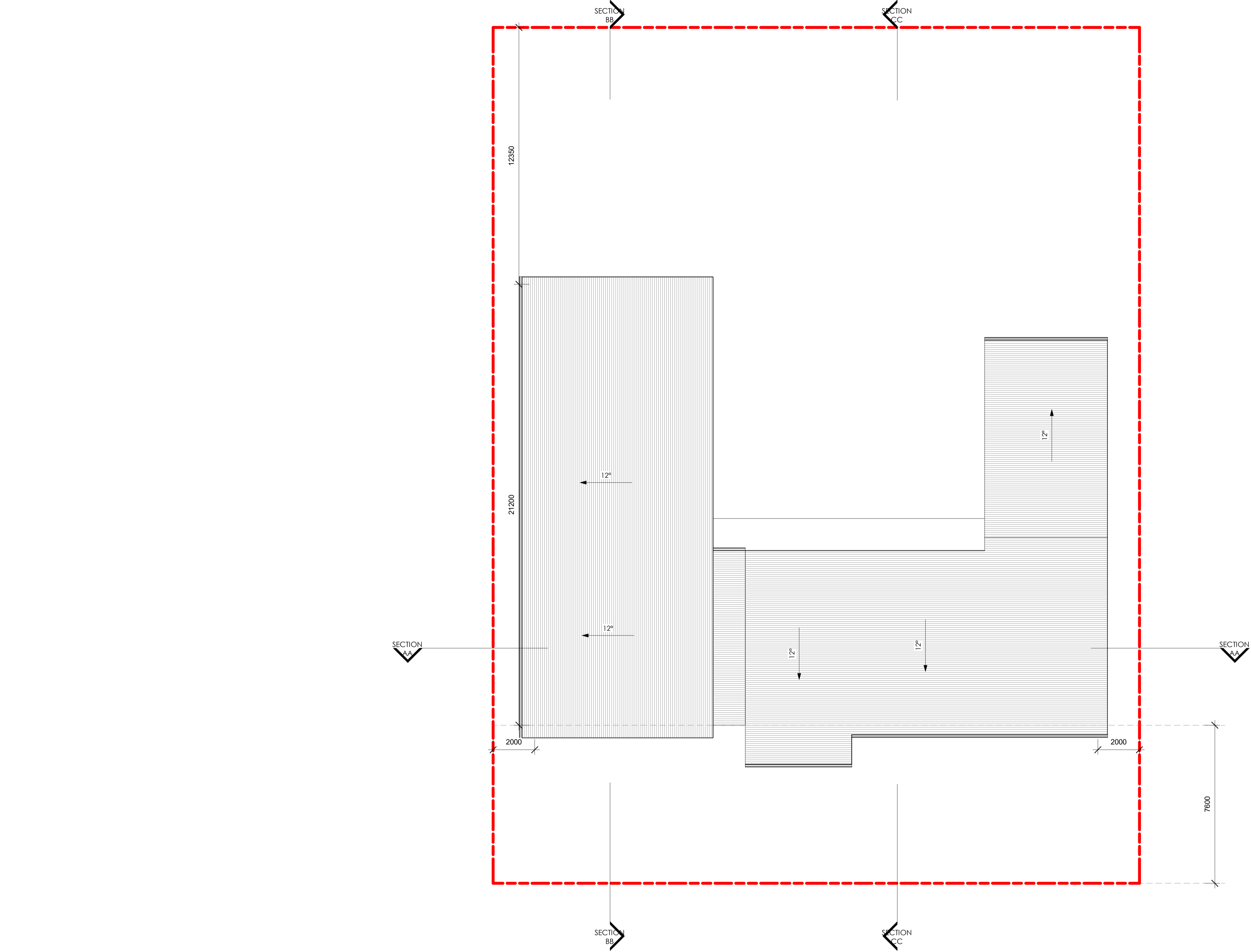
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GROUND FLOOR

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1 ROOF PLAN  
1 : 100

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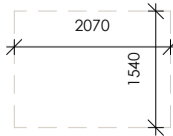
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DEMOLISHED	- - - - -
CIRCULATION SPACE	▨

EXISTING STRUCTURE	■
PROPOSED STRUCTURE	■
AREA CALC.	▨

0 - 2 INDOOR PLAY AREA	▨
2 - 3 INDOOR PLAY AREA	▨
3 - 5 INDOOR PLAY AREA	▨

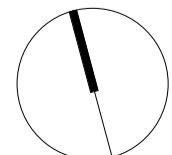
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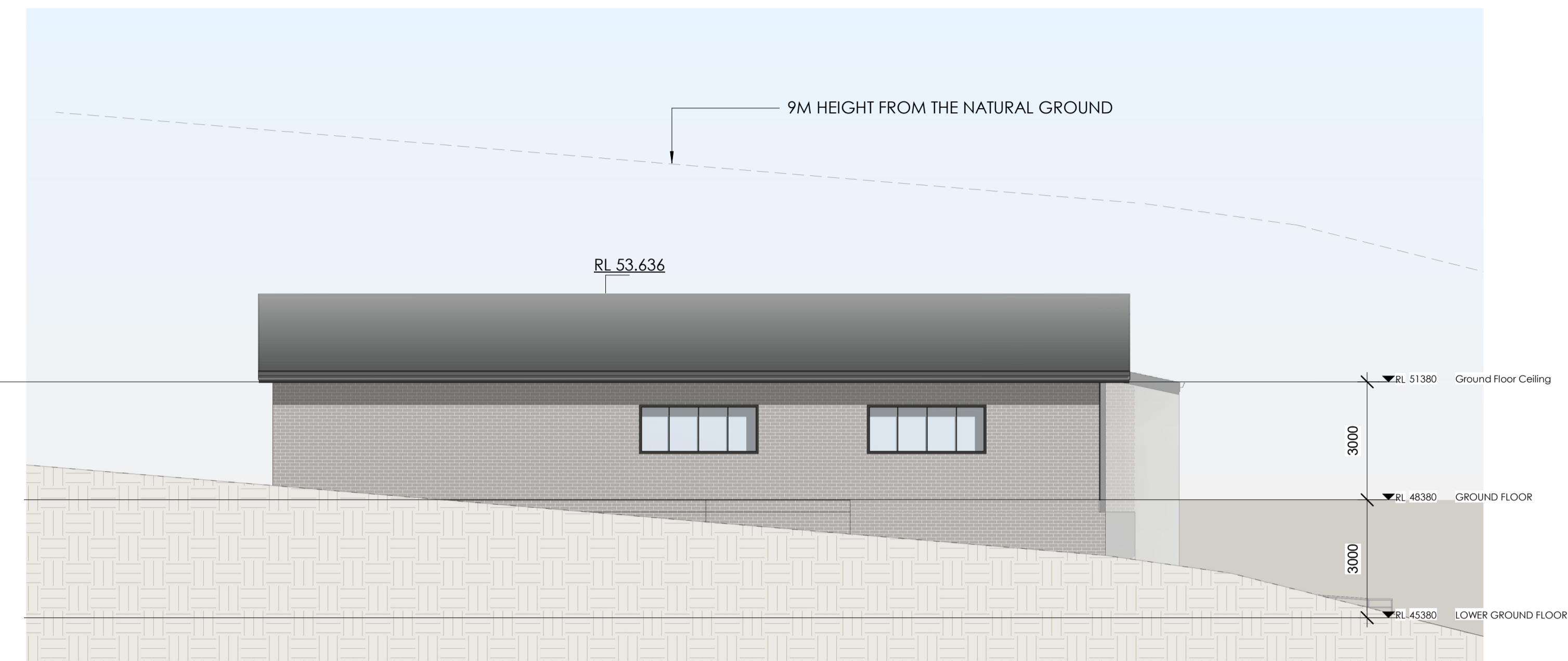
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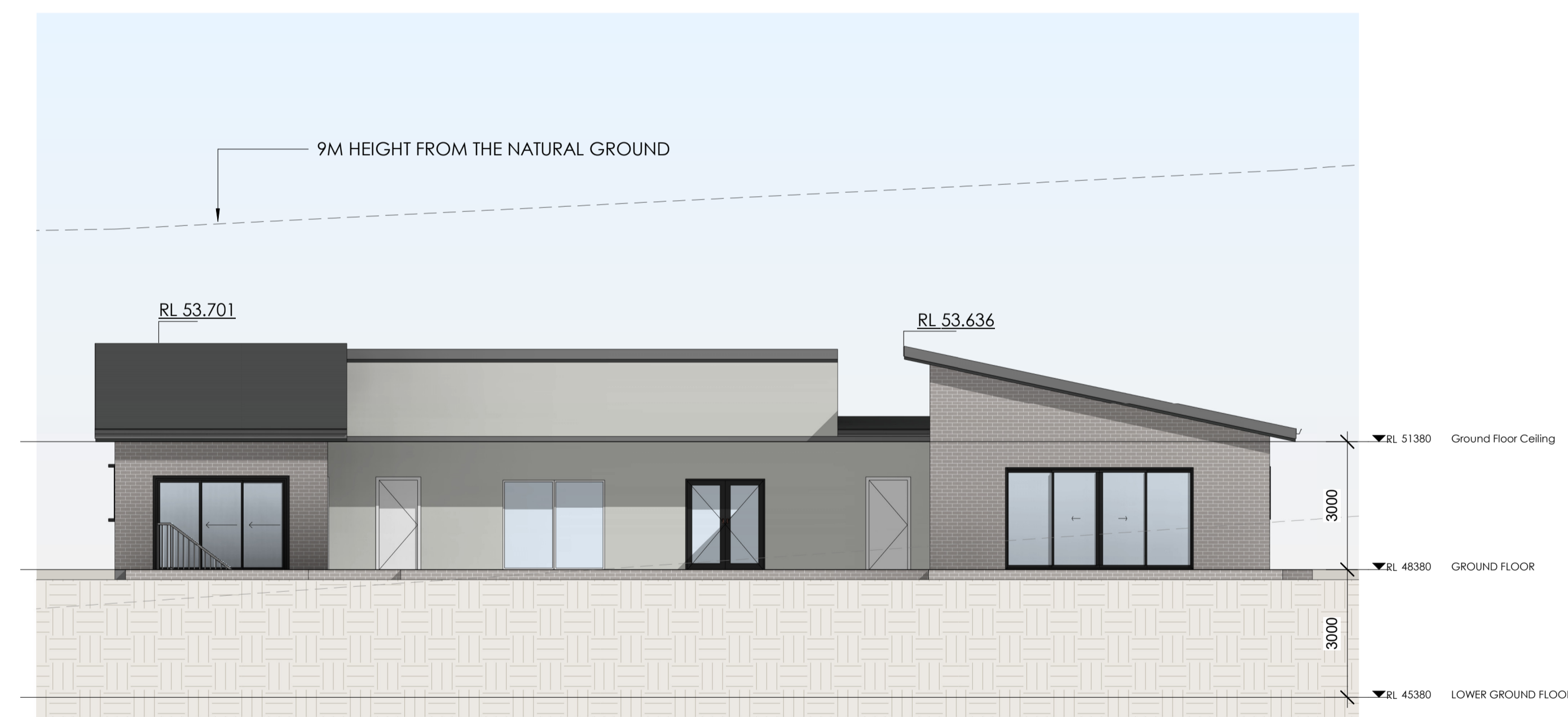
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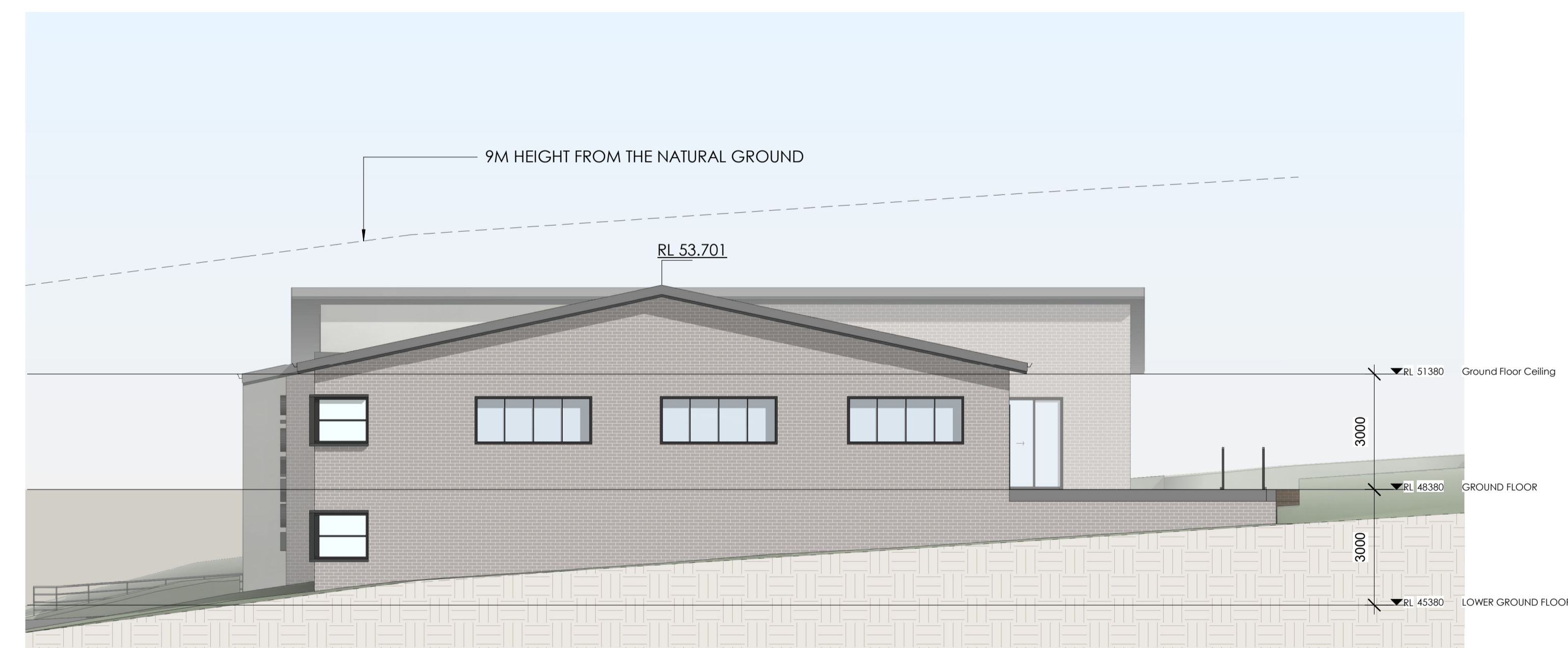
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2 WEST ELEVATION  
1 : 100



3 NORTH ELEVATION  
1 : 100



4 EAST ELEVATION  
1 : 100

REV	DESCRIPTION	DATE
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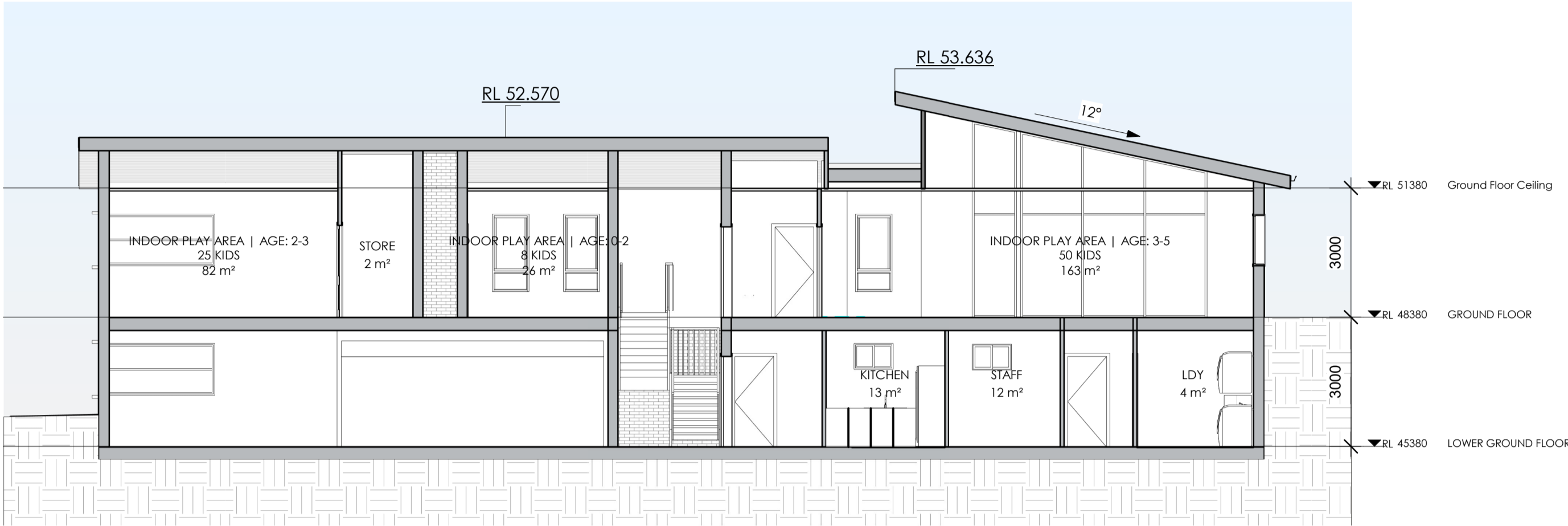
+61 2 9188 8250  
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info@bainidesign.com.au  
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PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
ELEVATIONS

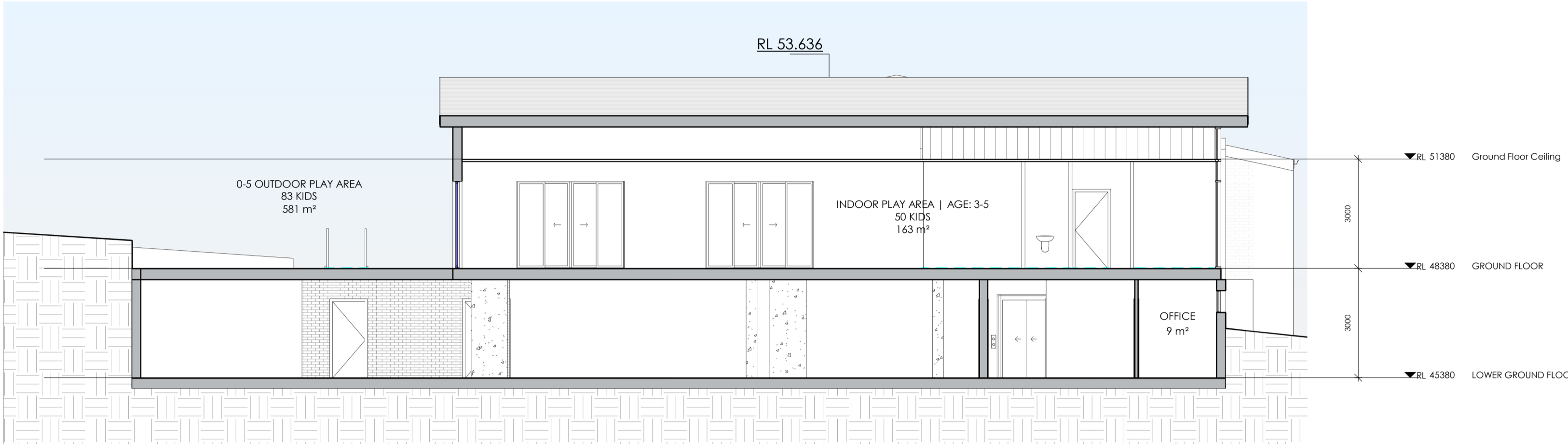
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DRAWING NUMBER  
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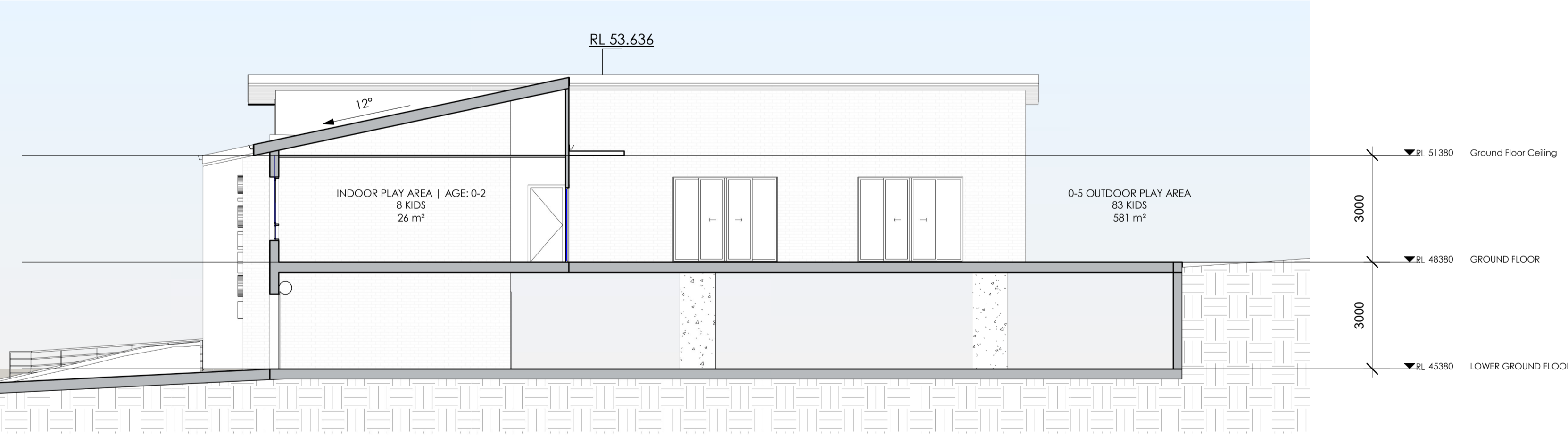
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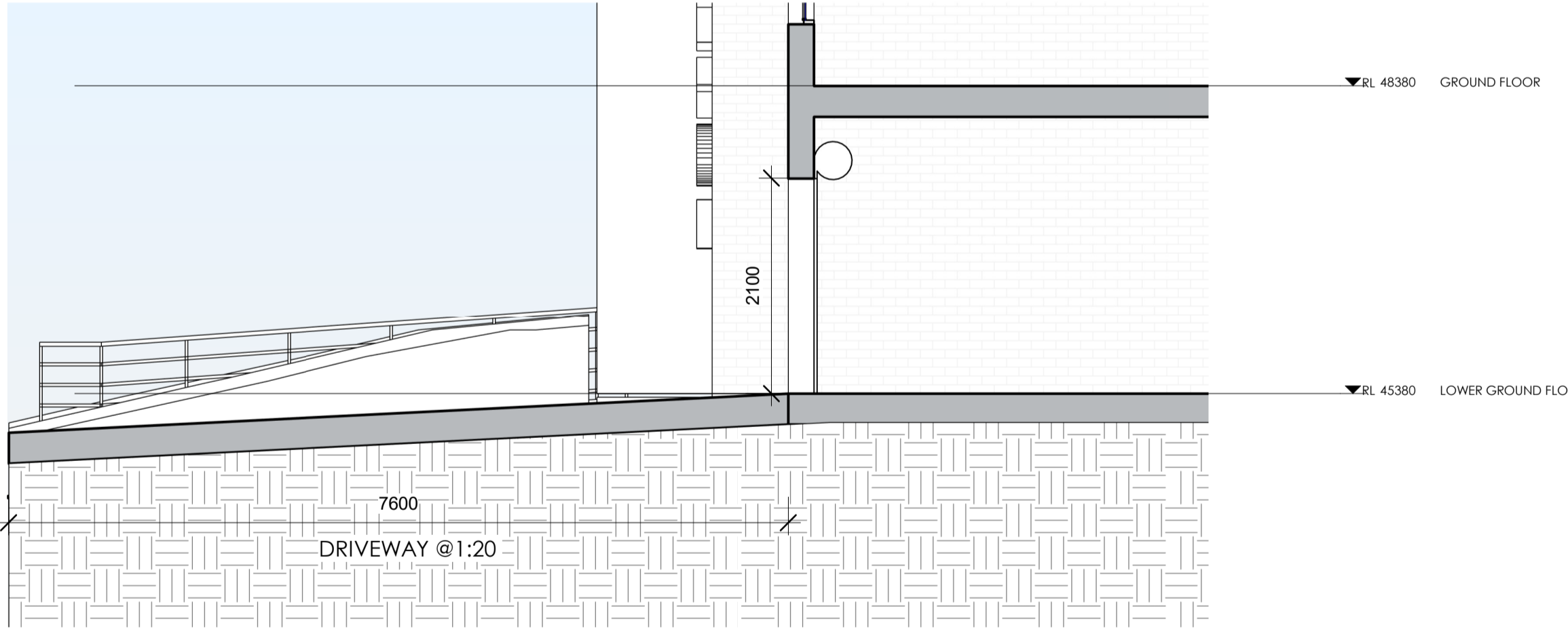
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2 SECTION BB  
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3 SECTION CC  
1 : 100



4 DRIVEWAY SECTION  
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REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
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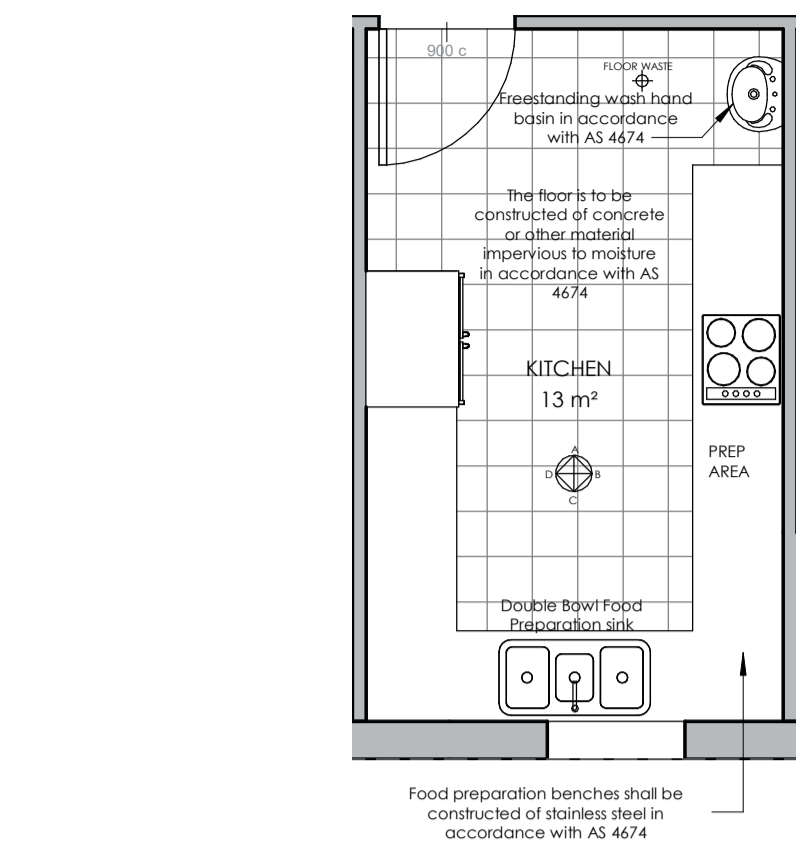
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SECTIONS

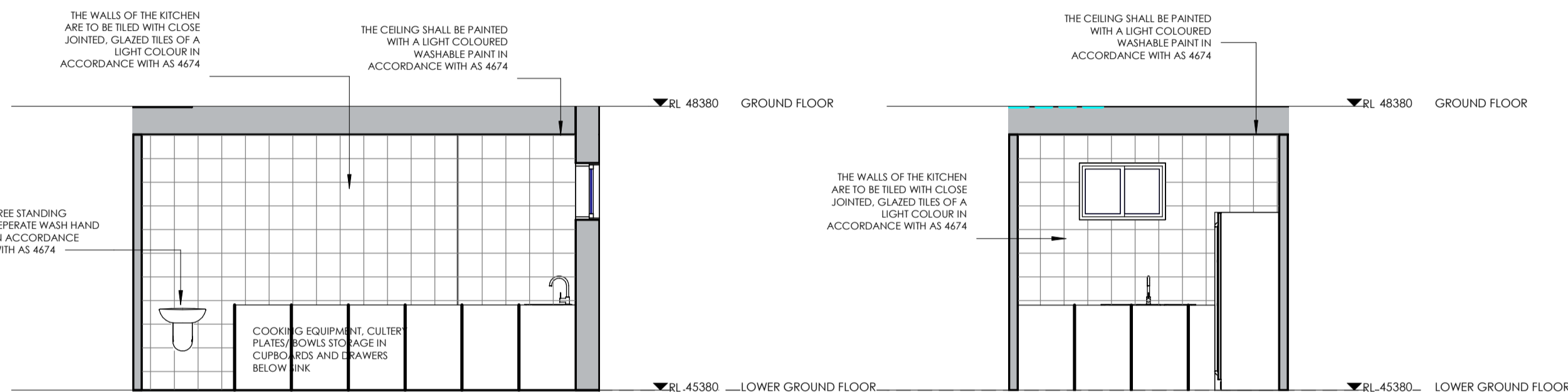
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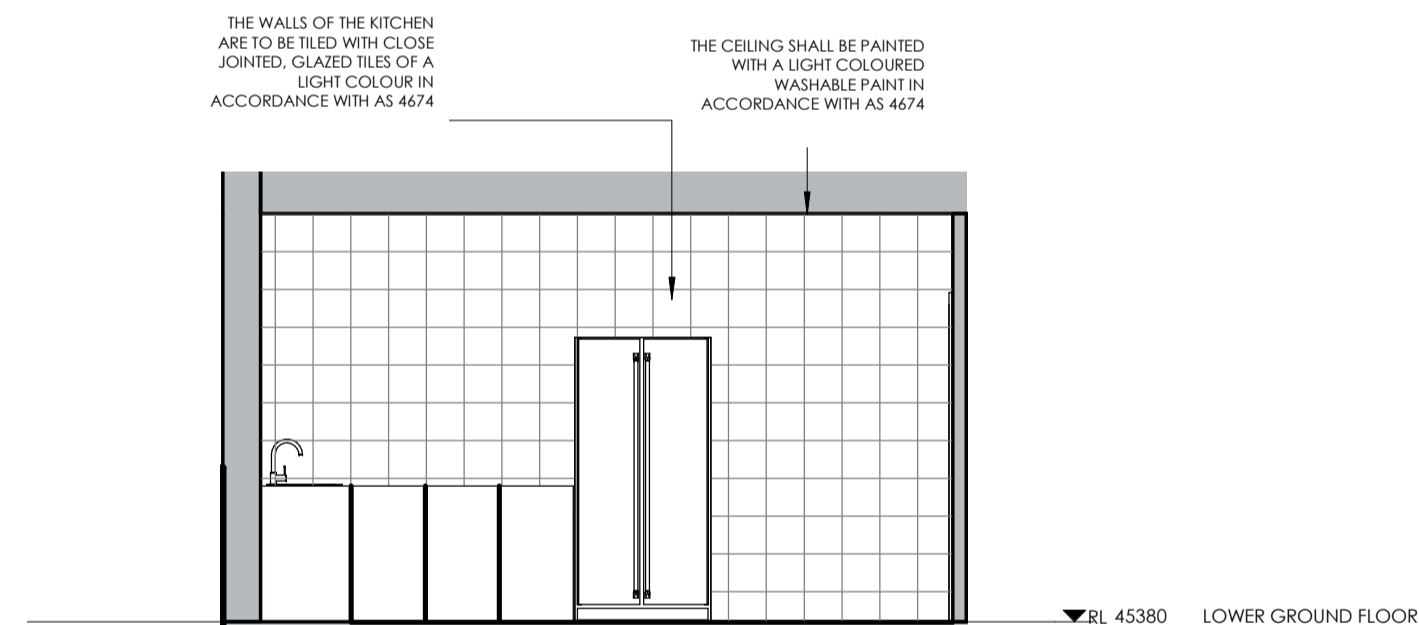
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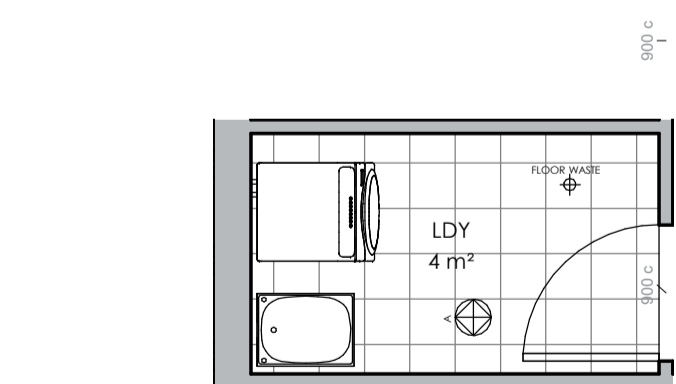
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1 : 50



2 KITCHEN ELEVATION B  
1 : 50

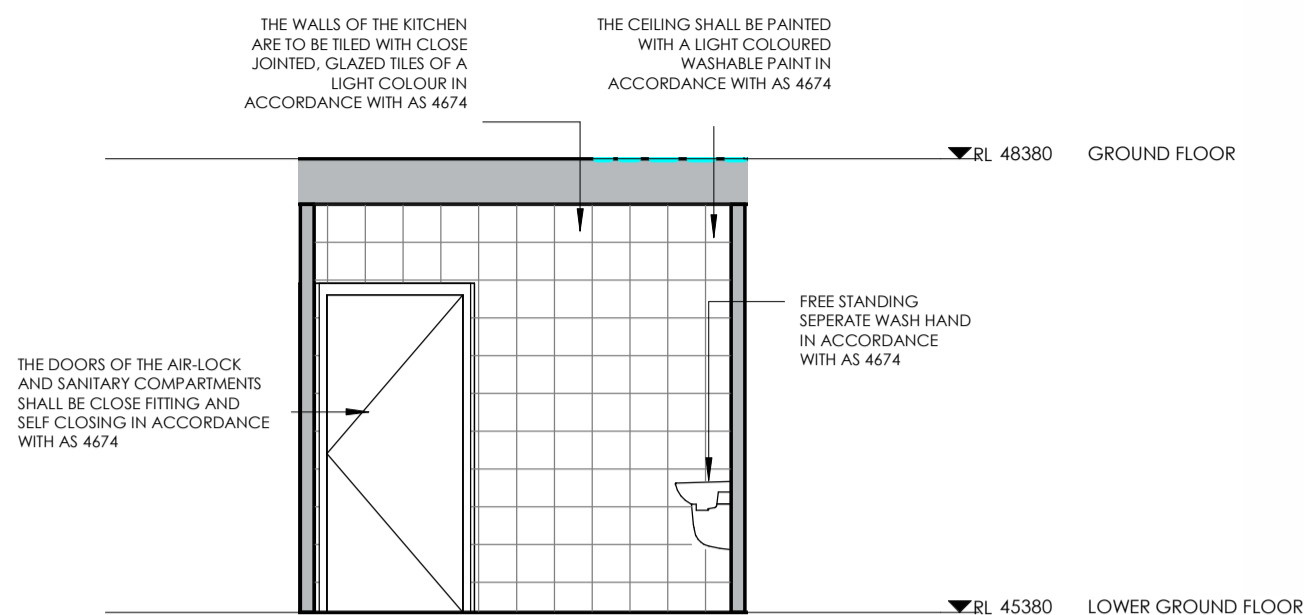


4 KITCHEN ELEVATION D  
1 : 50

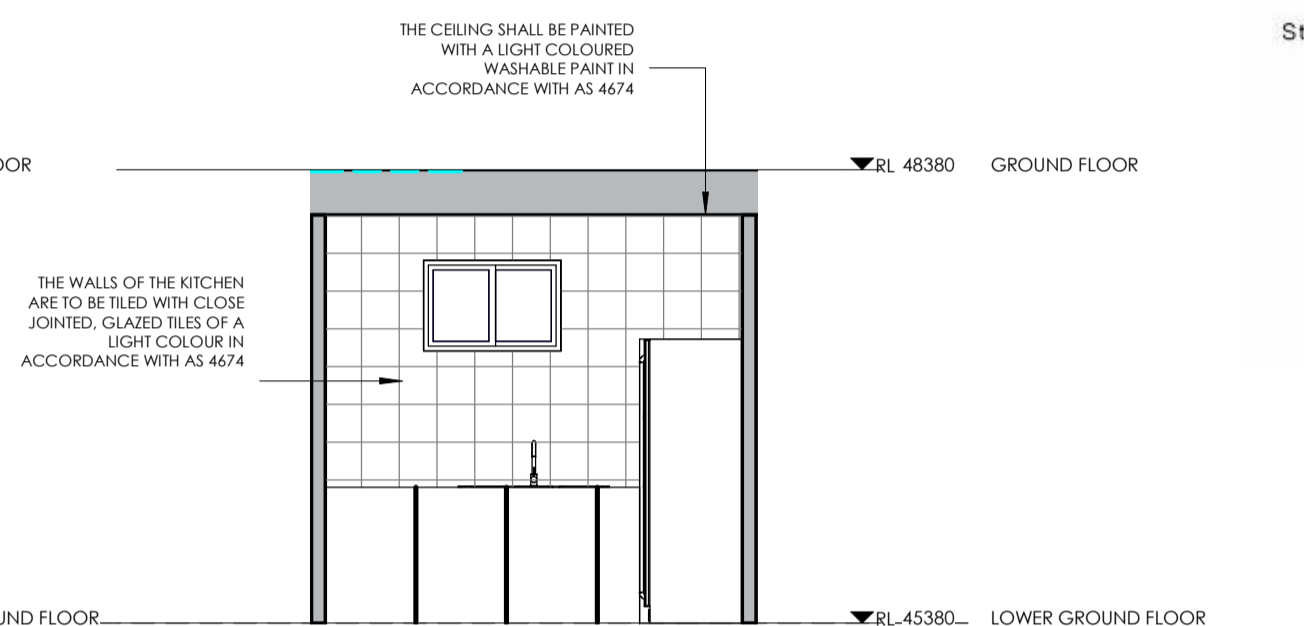


7 LAUNDRY DETAIL  
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REV	DESCRIPTION	DATE
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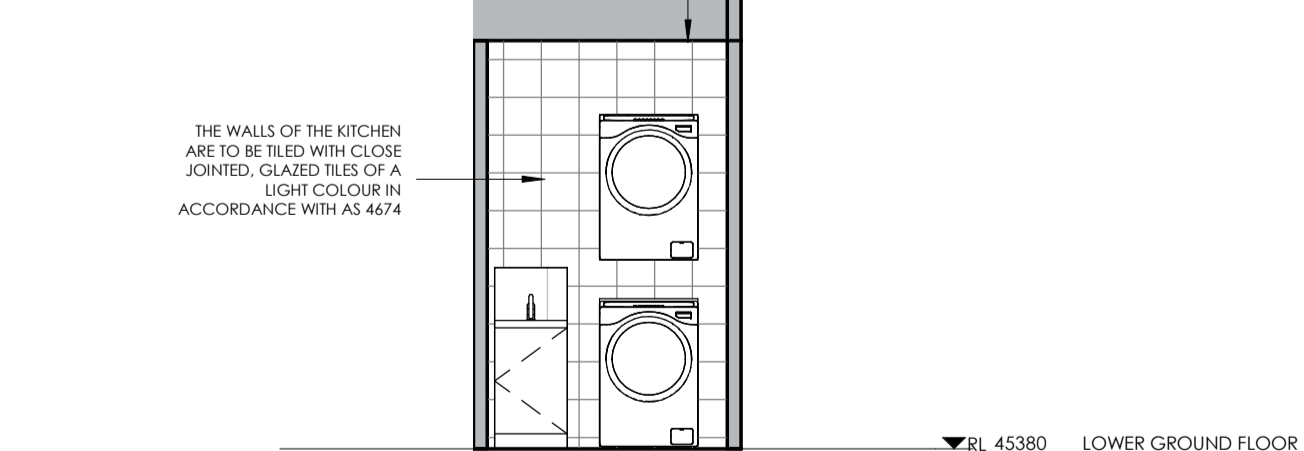
1 KITCHEN ELEVATION A  
1 : 50



3 KITCHEN ELEVATION C  
1 : 50



4 KITCHEN ELEVATION D  
1 : 50



6 LAUNDRY ELEVATION A  
1 : 50

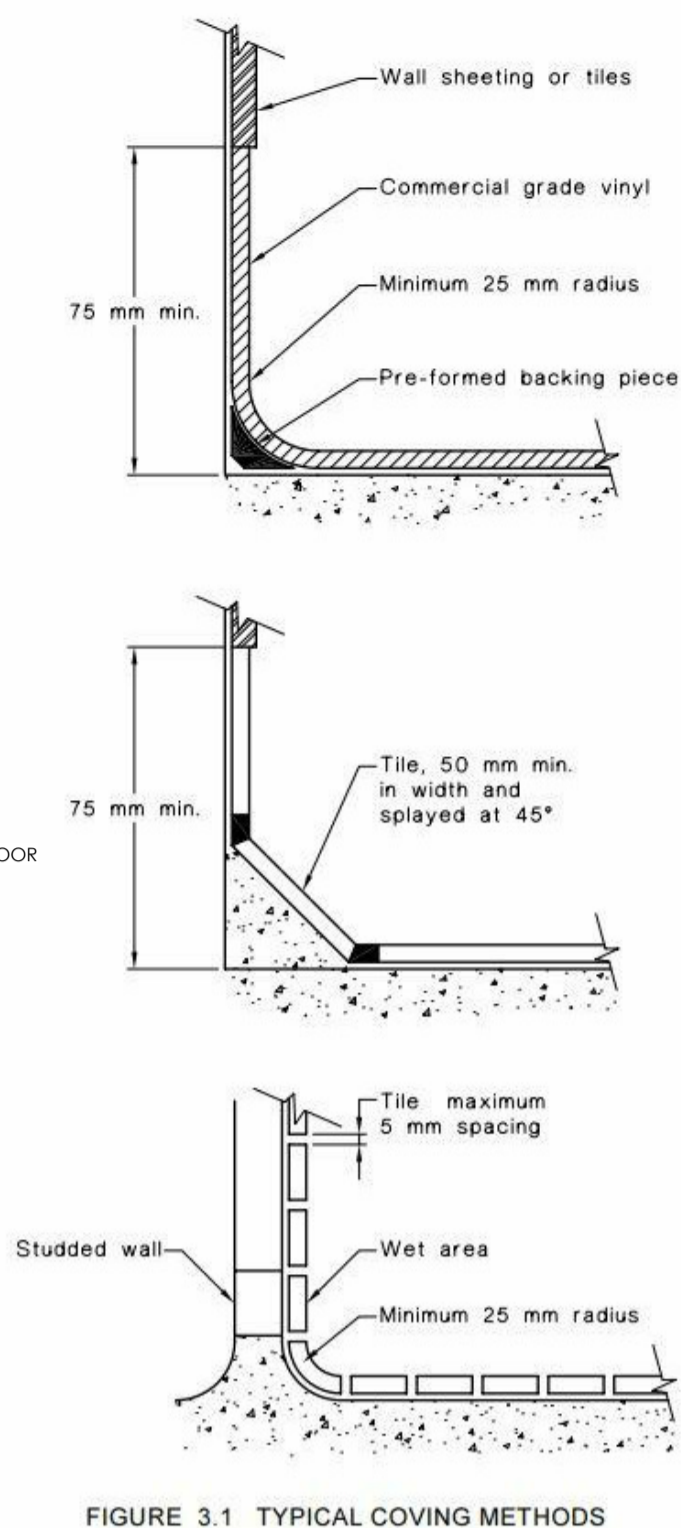


FIGURE 3.1 TYPICAL COVING METHODS

## FOOD TO BE PROVIDED

(As per **Caring for Children Birth to 5 years** (Food, Nutrition and Learning Experiences) NSW GOVT HEALTH)

Table 3 – Daily food amounts for children (2 to 5 years)<sup>1</sup>.

Food Group and Serve Sizes	Minimum number of serves while in care for 8 hours	Comments
<b>Vegetables and legumes/beans</b>  <b>Each of the following foods is <u>one</u> serve:</b> ½ cup cooked vegetables ½ cup cooked dried, canned beans, peas or lentils 1 cup salad vegetables ½ medium potato or sweet potato 1 medium tomato	2	<ul style="list-style-type: none"> <li>Include different types and colours.</li> <li>Fresh, frozen and canned varieties can be used.</li> <li>Choose canned varieties with no added salt.</li> </ul>
<b>Fruit</b>  <b>Each of the following foods is <u>one</u> serve:</b> 1 medium (150g) piece of fruit e.g. apple, banana, orange or pear 2 small apricots, kiwi fruits or plums 1 cup diced or canned fruit (no added sugar) 30g dried fruit e.g. 4 dried apricot halves	1	<ul style="list-style-type: none"> <li>Serve fresh fruit rather than juice.</li> </ul>
<b>Wholegrain cereal foods and breads</b>  <b>Each of the following foods is <u>one</u> serve:</b> 1 slice of bread ½ a bread roll ¾ cup wheat cereal flakes ½ cup cooked rice ½ cup cooked pasta 3 crispbread biscuits 1 crumpet 1 English muffin 1 scone	2	<ul style="list-style-type: none"> <li>Include a variety – breads, cereals, rice, pasta, noodles, polenta, couscous, oats, quinoa and barley.</li> <li>Choose wholegrain or wholemeal varieties and when available varieties with added iron.</li> </ul>
<b>Lean meat and poultry, fish, eggs, tofu, seeds and legumes</b>  <b>Each of the following foods is <u>one</u> serve:</b> 65g cooked lean meats - beef, lamb, veal, pork, goat, kangaroo (90-100g raw) 80g cooked lean poultry or turkey (100g raw) 100g cooked fish (115g raw) 1 small can fish 2 large eggs 1 cup cooked or canned legumes/beans 170g tofu	¾	<ul style="list-style-type: none"> <li>Trim fat from meat where possible.</li> </ul>
<b>Milk, yoghurt, cheese and alternatives</b>  <b>Each of the following foods is <u>one</u> serve:</b> 1 cup milk 2 slices of cheese (40g) 200g yoghurt 120g ricotta cheese 1 cup soy milk with at least 100mg of added calcium per 100ml	1	<ul style="list-style-type: none"> <li>Serving milk at morning and afternoon tea may be an easy and reliable way to meet this requirement.</li> <li>Choose mostly reduced fat varieties.</li> </ul>

**Note:** If a child is in care for more than eight hours extra meals and/or midmeals (i.e. breakfast or late afternoon tea) should be provided.

## Child Care Centre Kitchen

The premises are to be constructed and fitted out strictly in accordance with the Australian/New Zealand Food Safety Standards Code 3.2.3 'Food Premises & Equipment' and Australian Standard 4674.2004 Design, Construction & Fit Out of Food Premises.

### Fitout of Food Preparation Area

A rigid smooth faced impervious ceiling shall be provided over the food preparation, cooking and serving areas. The surface finish shall be free of open joints, cracks, crevices or openings with the intersection of the walls and ceiling being tight jointed, sealed and dustproof.

The ceiling shall be painted with a light coloured washable paint.

All fluorescent light fittings shall be fitted with a smooth faced diffuser. Lighting shall be either:  
 - recessed so that the diffuser is flush with the ceiling or  
 - designed to ensure that no horizontal surface exists which would allow dust & grease to accumulate.

The floor is to be constructed of concrete or other material impervious to moisture, finished to a smooth trowelled finish, coved at the intersections with the walls and graded and drained to approved sewerage connections.

Coving is to be provided between all walls and the floor and between the floor and all fitting. This can be achieved by coving tiles, cement render, or by turning vinyl flooring up the walls. In this case a fillet or backing piece is required to support the cove.

Floor to be constructed of material impervious to water, non slip and graded and drained to floor waste.

The walls in the kitchen are to constructed of cement rendered bricks, blocks or concrete finished to a smooth, steel trowelled surface, coved to the floor, and where not tiled, painted with a light coloured gloss paint. Unrendered brick or block work is not permitted.

The walls of the kitchen are to be tiled with close jointed, glazed tiles of a light colour to a height of 2 metres.

The walls of the kitchen are to be tiled with close jointed, glazed tiles of a light colour to a height of 450mm above all sinks, tubs, draining boards, wash hand basins and preparation benches.

All walls where not tiled shall be cement rendered to a smooth surface and painted with a light coloured washable paint.

Refrigeration, frozen food cabinets, cooking appliances, equipment, fitting, cupboards, and cabinets are to be supported on one of the following systems:  
 Wheels or casters which allow the fully loaded fitting to be easily moved  
 Legs which provide a min. 150mm clearance from the floor to the underside of the fitting.

All shelving being installed on approved metal brackets and kept at least 25mm clear off wall.

Food preparation benches shall be constructed of stainless steel.

The top and exposed edges of all benches, counters and shelving shall be finished in a smooth and non absorbent material free of joints.

All service pipes, condensate pipes and electrical conduits must be sealed into the walls, floors or plinths.

All service pipes, condensate pipes and electrical conduits which are not capable of being concealed within the walls shall be mounted on brackets so as to provide at least 25mm clearance between the pipe and adjacent (wall) vertical surface and 100mm between the pipe and adjacent (floor) horizontal surface.

A freestanding wash hand basin is to be provided in an approved position in the kitchen/food preparation area connected to both hot and cold water at a minimum temperature of 40°C through a single outlet, as required by Clause 14 (1) and (2) of the Australian New Zealand Food Standards Code Food Safety Standard 3.2.3. Provide and maintain dispensable soap and single use towels or other suitable hand drying facilities near the wash hand basin.

All openings in the walls, floors and ceiling and all external doors and windows must be vermin proof.

All windows and doors to the external air are to be provided with fly screens.

A kitchen exhaust hood is to be provided above all appliances of heating capacity greater than 8KW in accordance with AS 1668 Part 2. A test certificate shall be submitted to the Principal Certifying Authority with application for an Occupation Certificate.

The doors of the air-lock and sanitary compartments must be close fitting and self closing.

A liquid soap dispenser and paper towel dispenser must be provided above or adjacent to the hand basin.

Washing facilities must be provided and comply with the Food Premises Code.

Not less than 300 lux of light will be available on all surfaces where food is prepared, or utensils are washed and sterilised in accordance with SA 1680.



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ACCREDITATION NUMBER: 6607

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7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
KITCHEN AND LAUNDRY DETAIL

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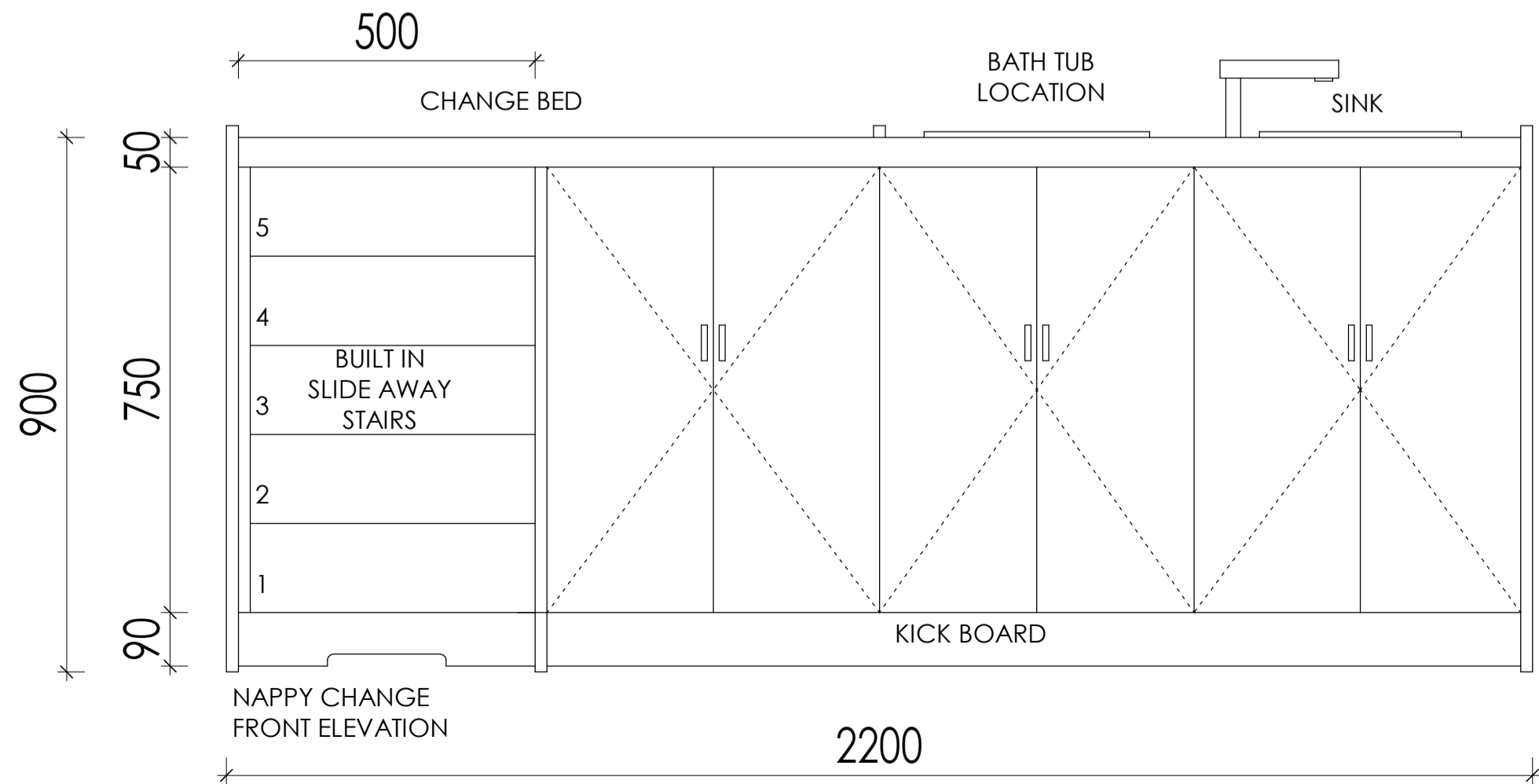
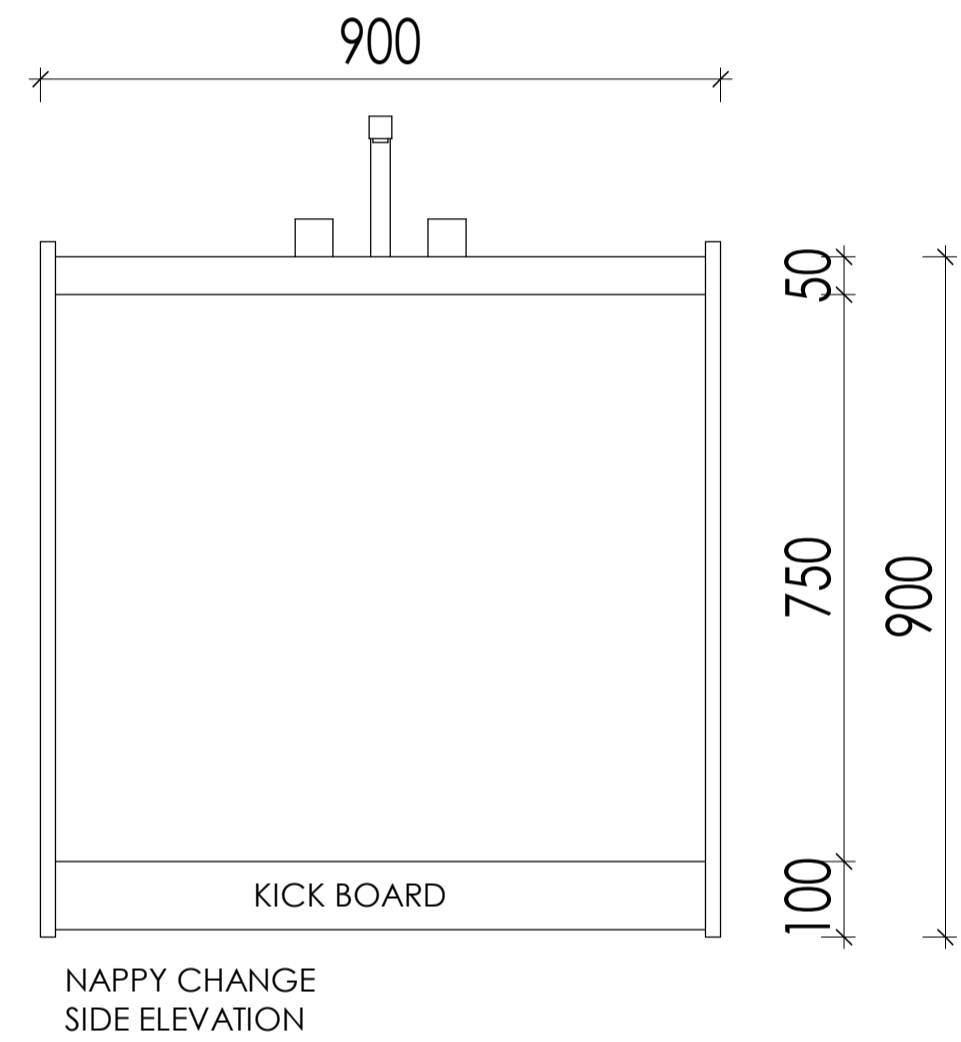
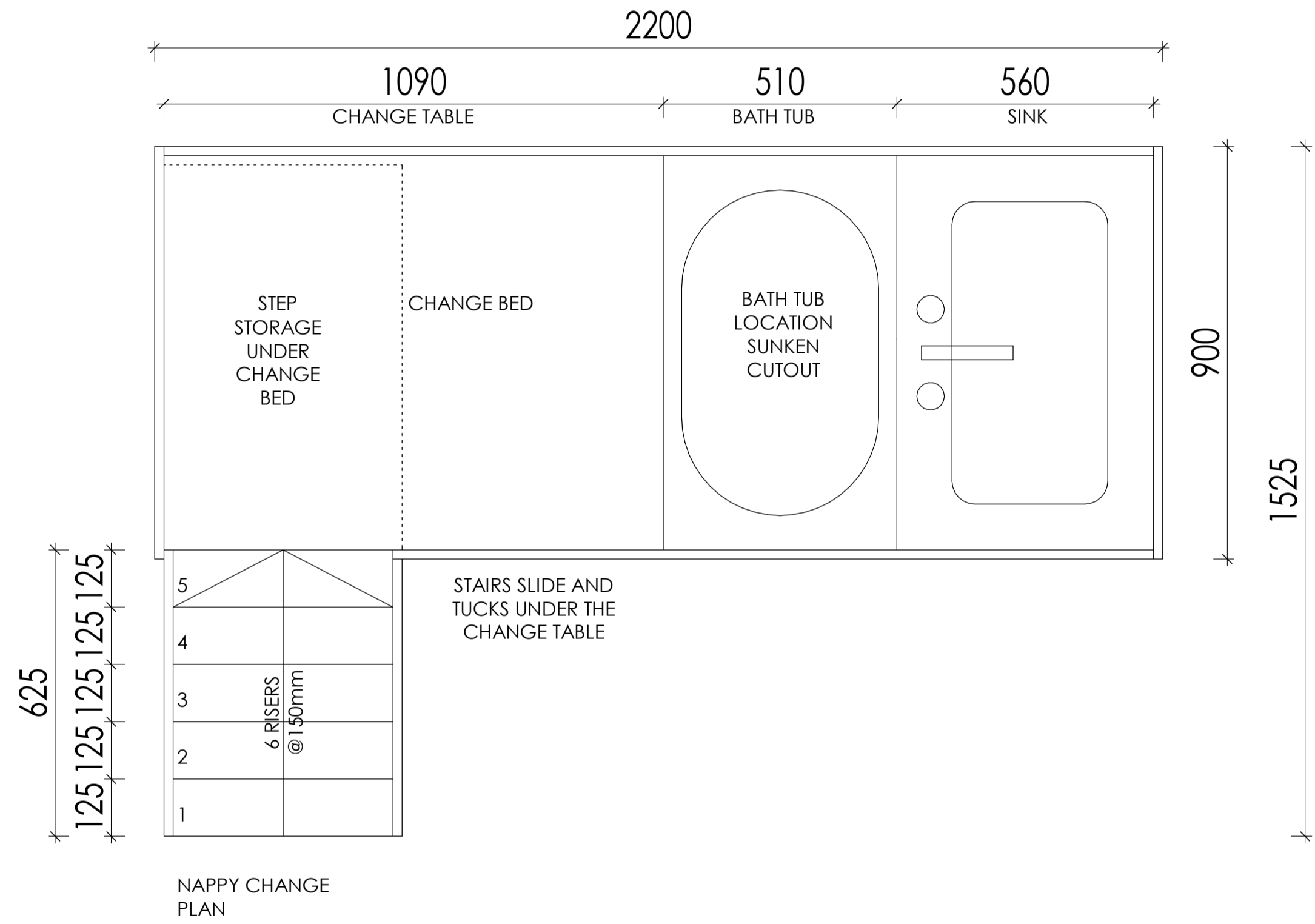
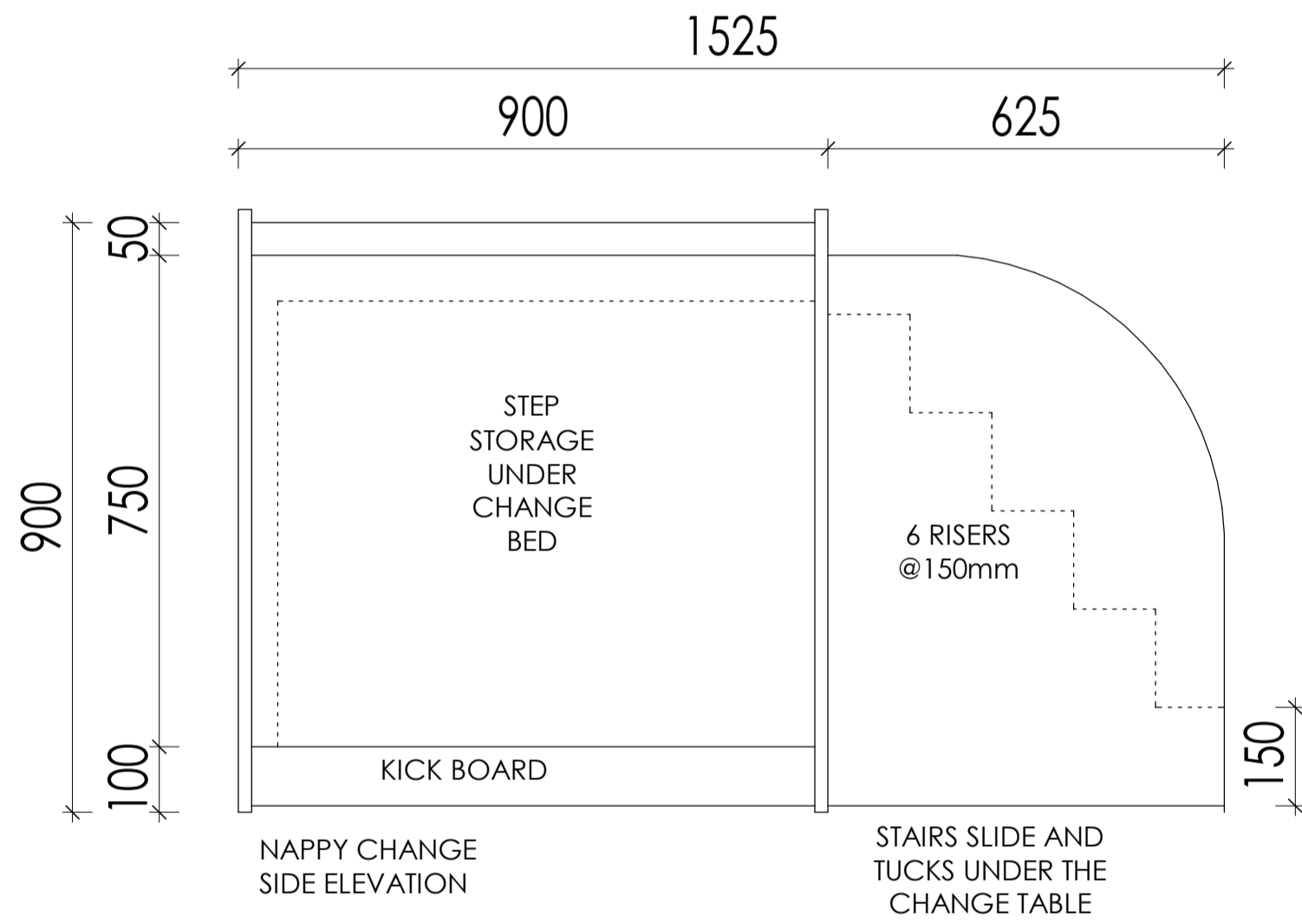
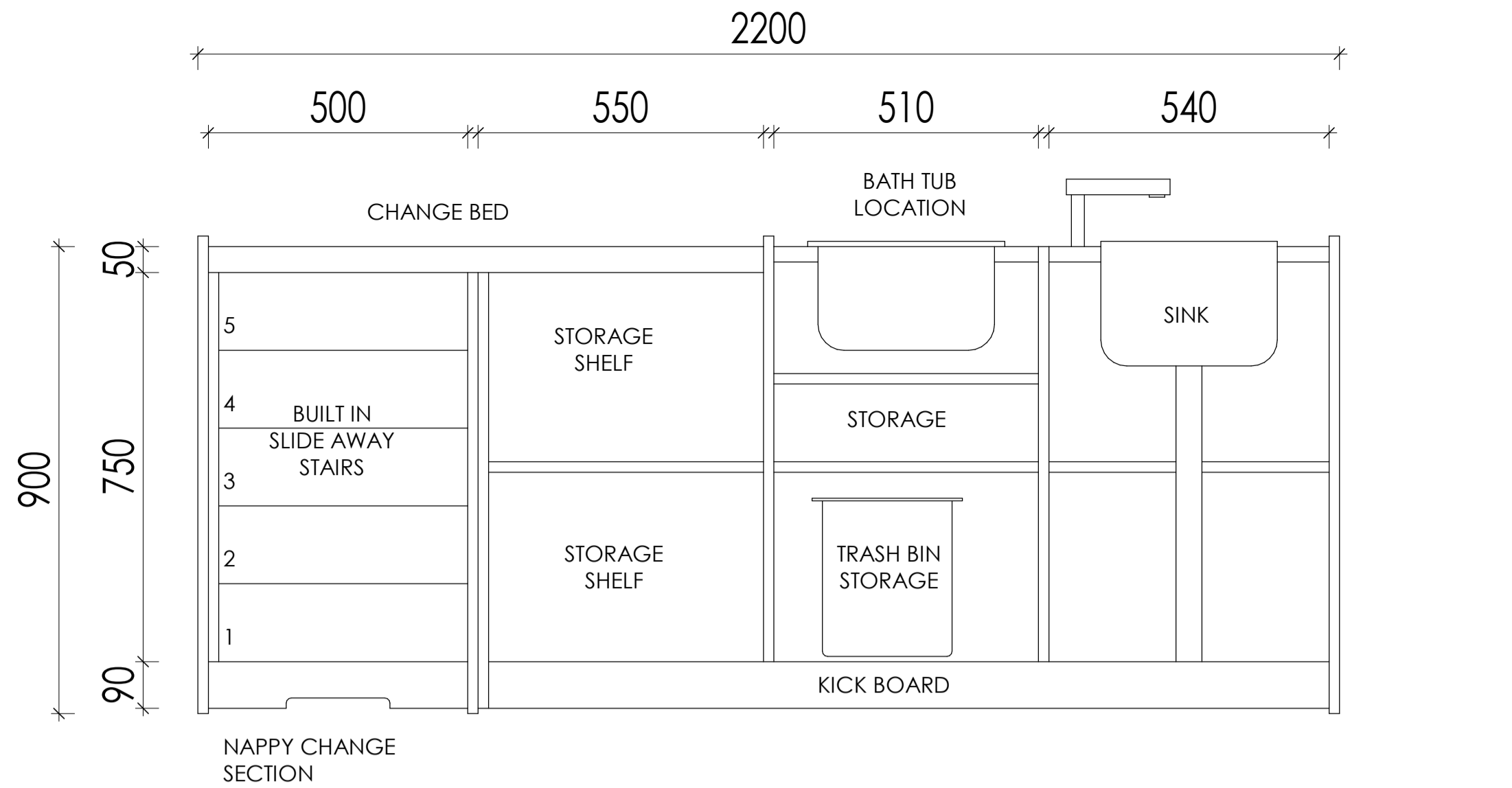
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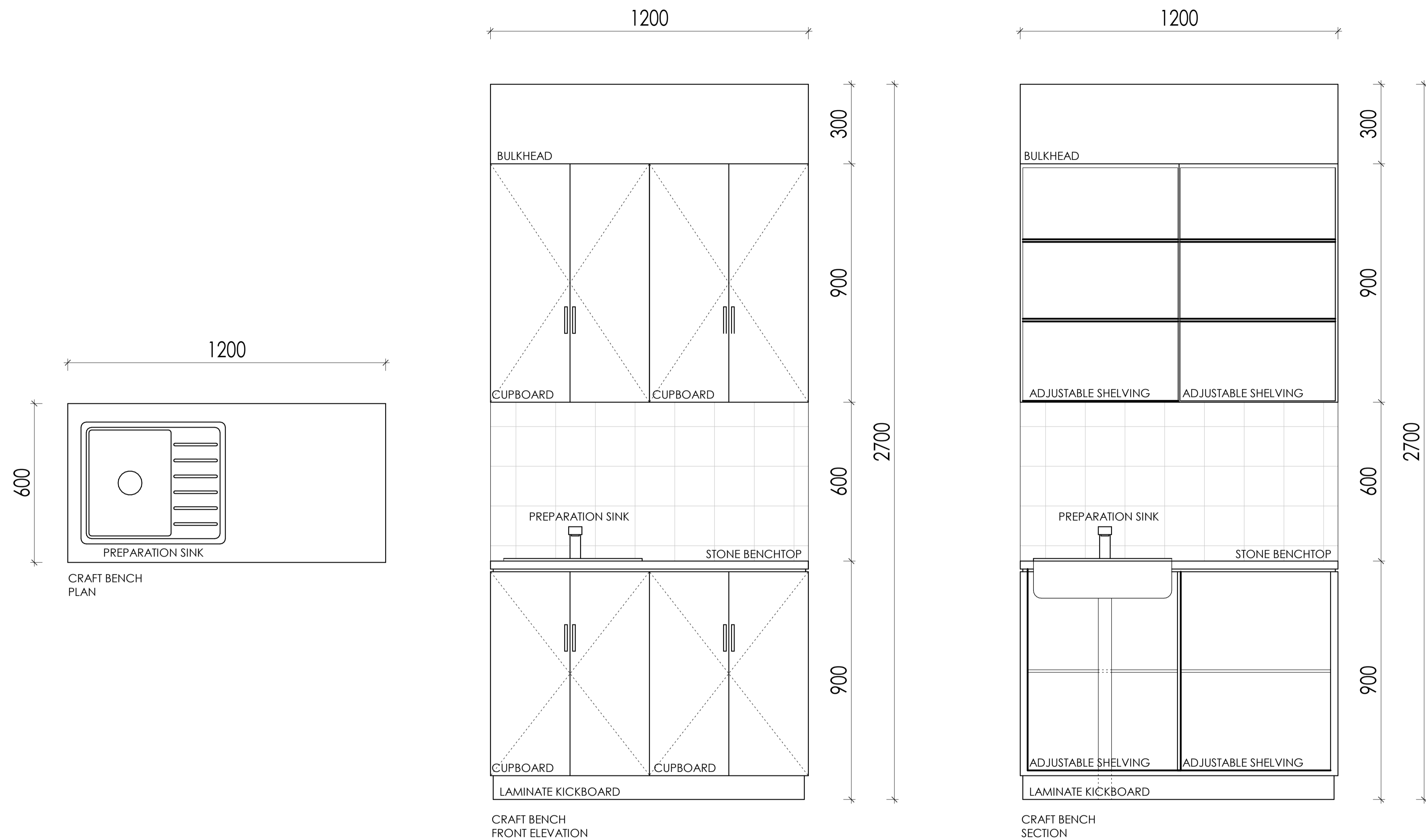
1 TYPICAL NAPPY CHANGE  
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A	PRE-DA SUBMISSION	18/10/21
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1 TYPICAL CRAFT BENCH DETAIL  
1 : 10

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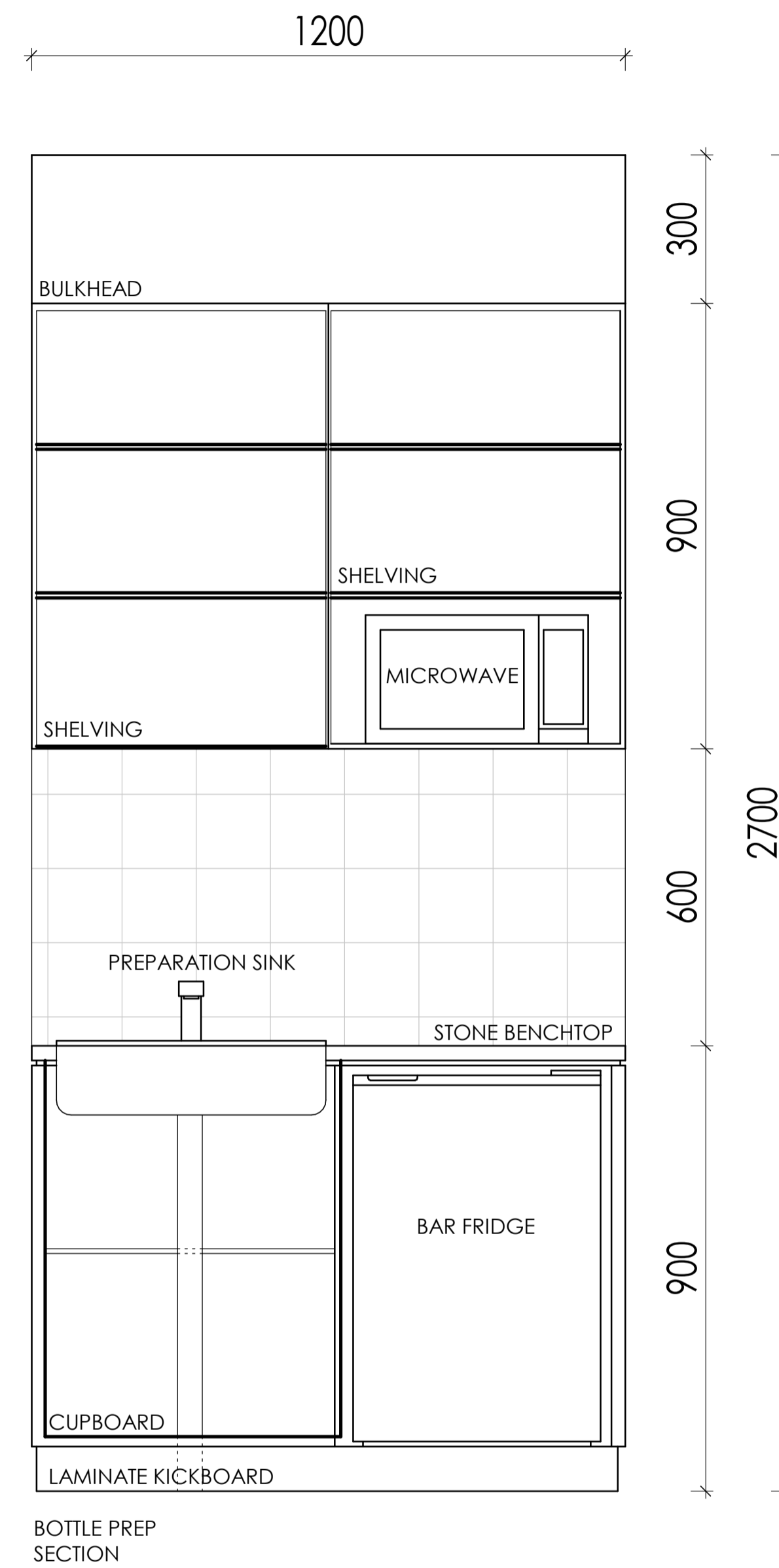
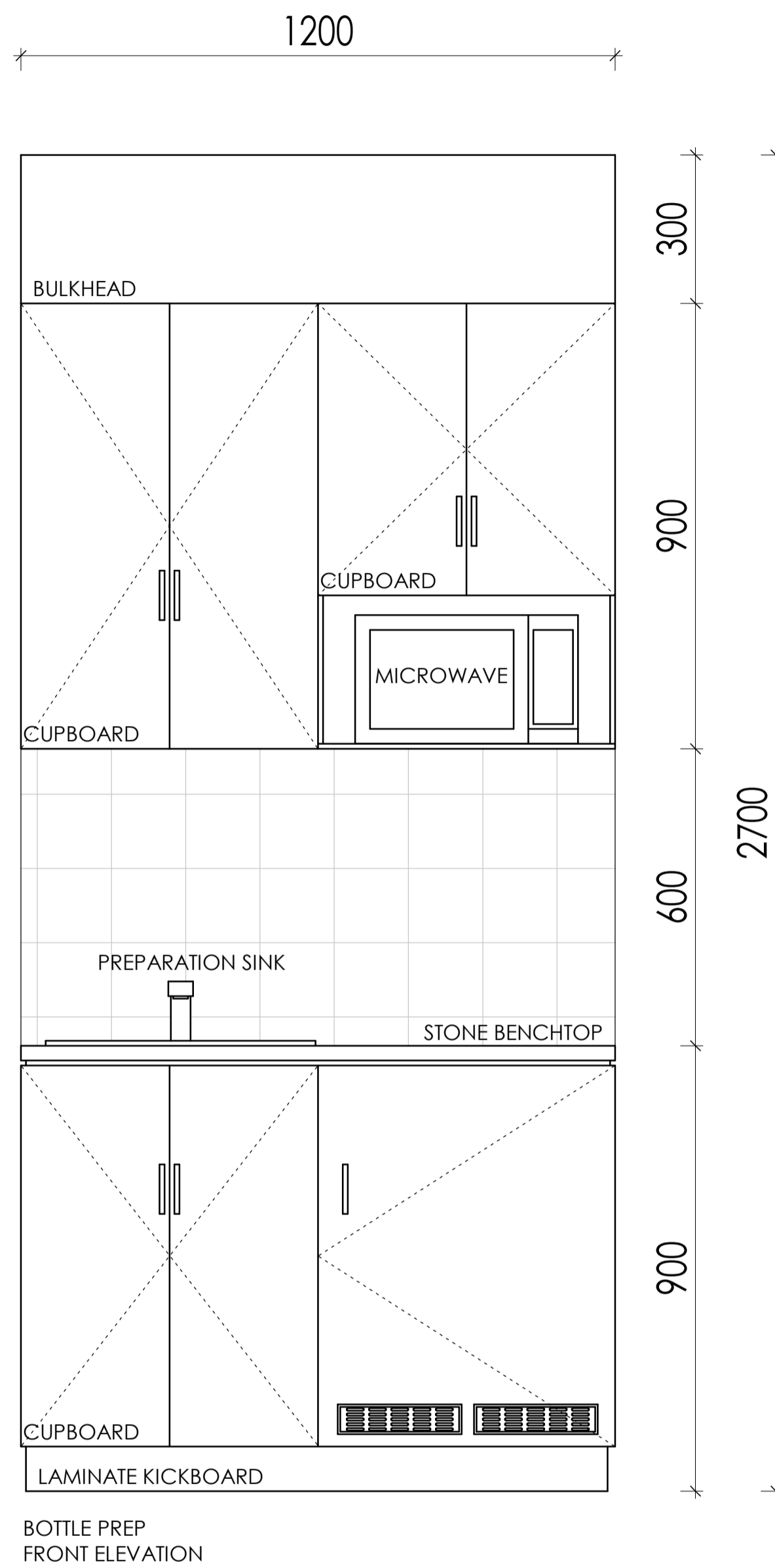
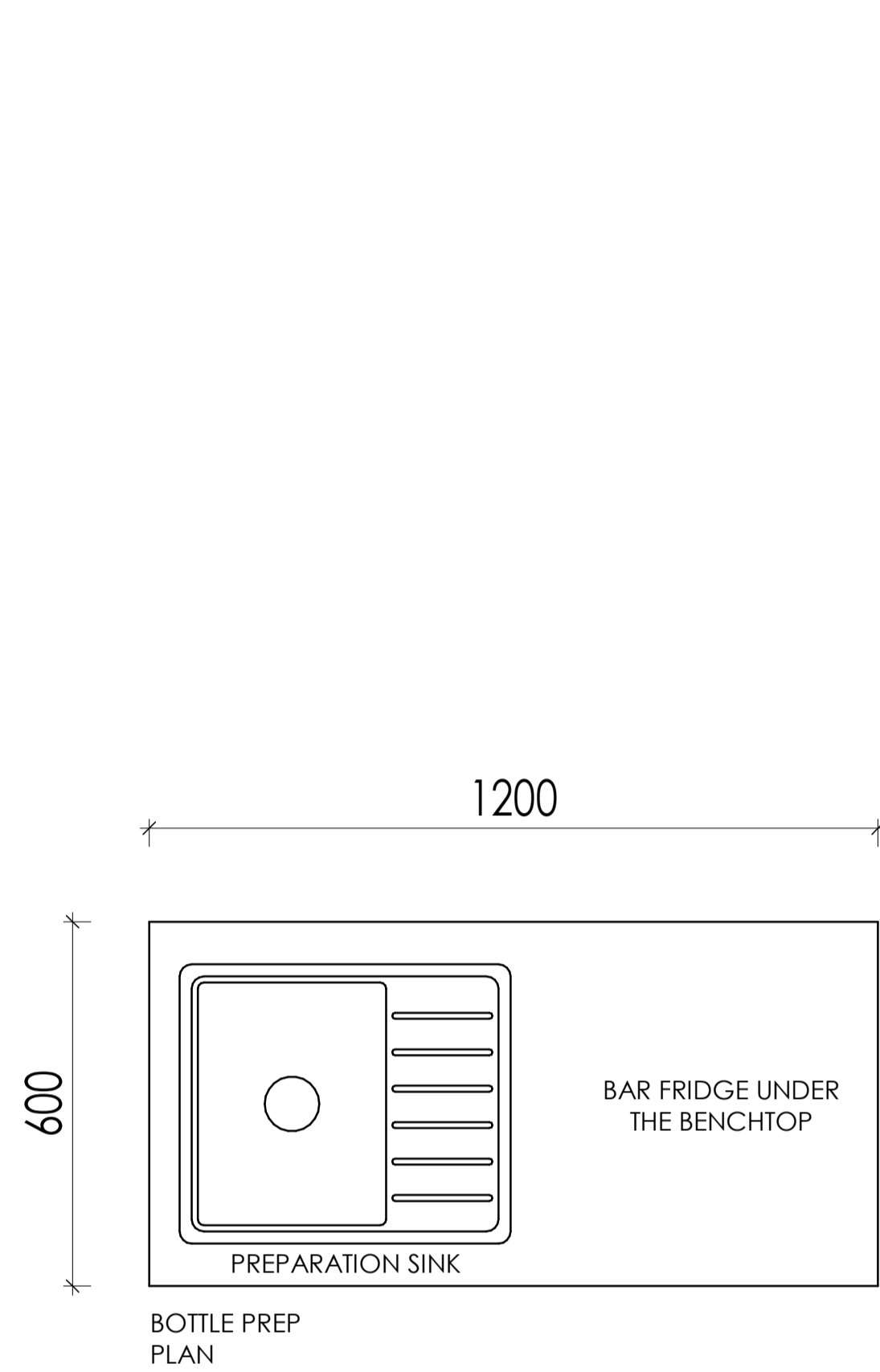
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CRAFT BENCH DETAIL

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1 TYPICAL BOTTLE PREP DETAIL  
1 : 10

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DRAWING TITLE  
BOTTLE PREP DETAIL

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NOMINATED ARCHITECT BEN VITALE REG NO. 8977

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NOTE: ALL FINISHES ARE SUBJECT TO AVAILABILITY

SCHEDULE OF MATERIALS AND FINISHES

REFERENCE	ELEMENT	MATERIAL	FINISH / SPECIFICATION
01	EXTERNAL WALL	FACE BRICK	PGH ALTITUDE MATTERHORN OR SIMILAR
02	EXTERNAL WALL	RENDER AND PAINT	DULUX SILVER TEA SET OR SIMILAR
03	LOUVRE	ALUMINIUM	COLORBOND MONUMENT OR SIMILAR
04	WINDOWS & DOORS	GLASS SET IN POWDER COATED ALUMINIUM FRAME	DULUX BLACK MATT OR SIMILAR
05	ROOF	COLORBOND	COLORBOND MONUMENT OR SIMILAR
06	GARAGE	COLORBOND	COLORBOND MONUMENT OR SIMILAR

REV	DESCRIPTION	DATE
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PROJECT TITLE PROPOSED CHILDCARE CENTRE 7 Yates Avenue, Dundas Valley, 2117			
DRAWING TITLE SCHEDULE OF FINISHES			
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1 CALCULATION PLAN - GROUND FLOOR  
1 : 100

REV	DESCRIPTION	DATE
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KEY

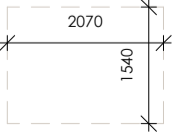
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DEMOLISHED	- - - - -
CIRCULATION SPACE	▨

EXISTING STRUCTURE	■
PROPOSED STRUCTURE	■
AREA CALC.	▨

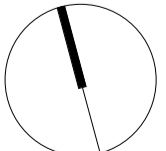
0 - 2 INDOOR PLAY AREA	■
2 - 3 INDOOR PLAY AREA	■
3 - 5 INDOOR PLAY AREA	■

NOTE

RECESSED FLOOR TRACKS TO BE USED FOR ALL EXTERNAL SLIDING DOORS  
ALL DOORS TO BE 850mm CLEAR  
MIN CIRCULATION SPACE TO BE PROVIDED PER BELOW



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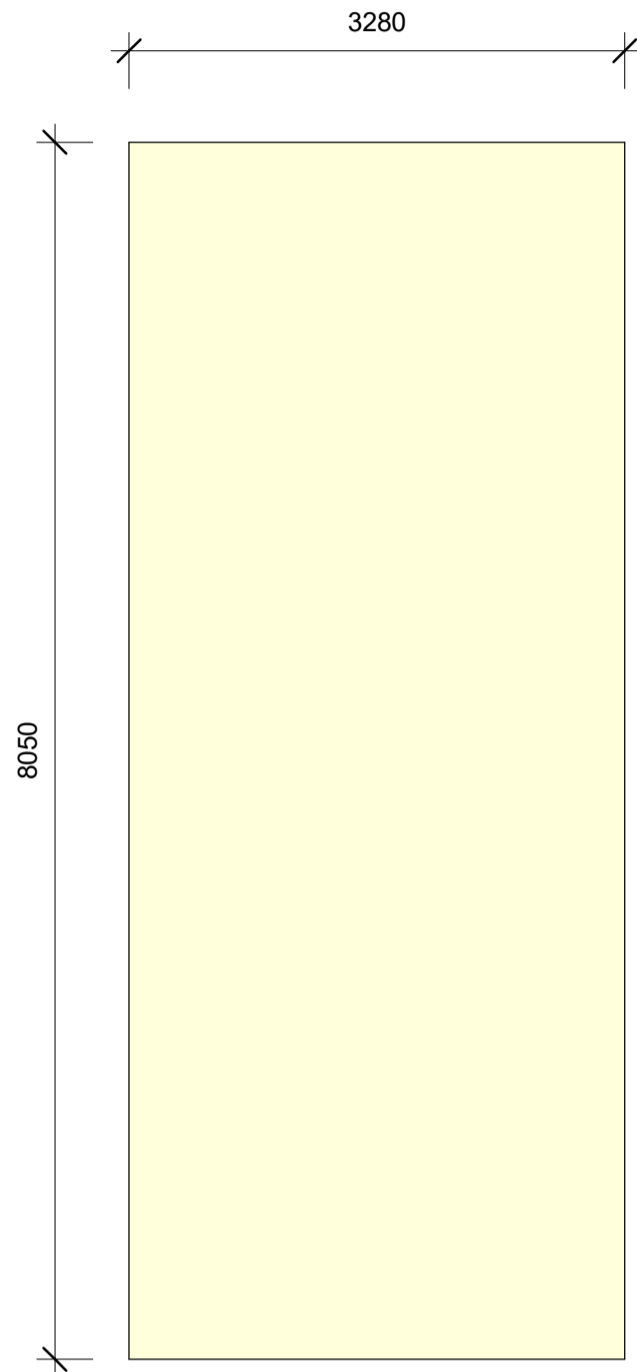
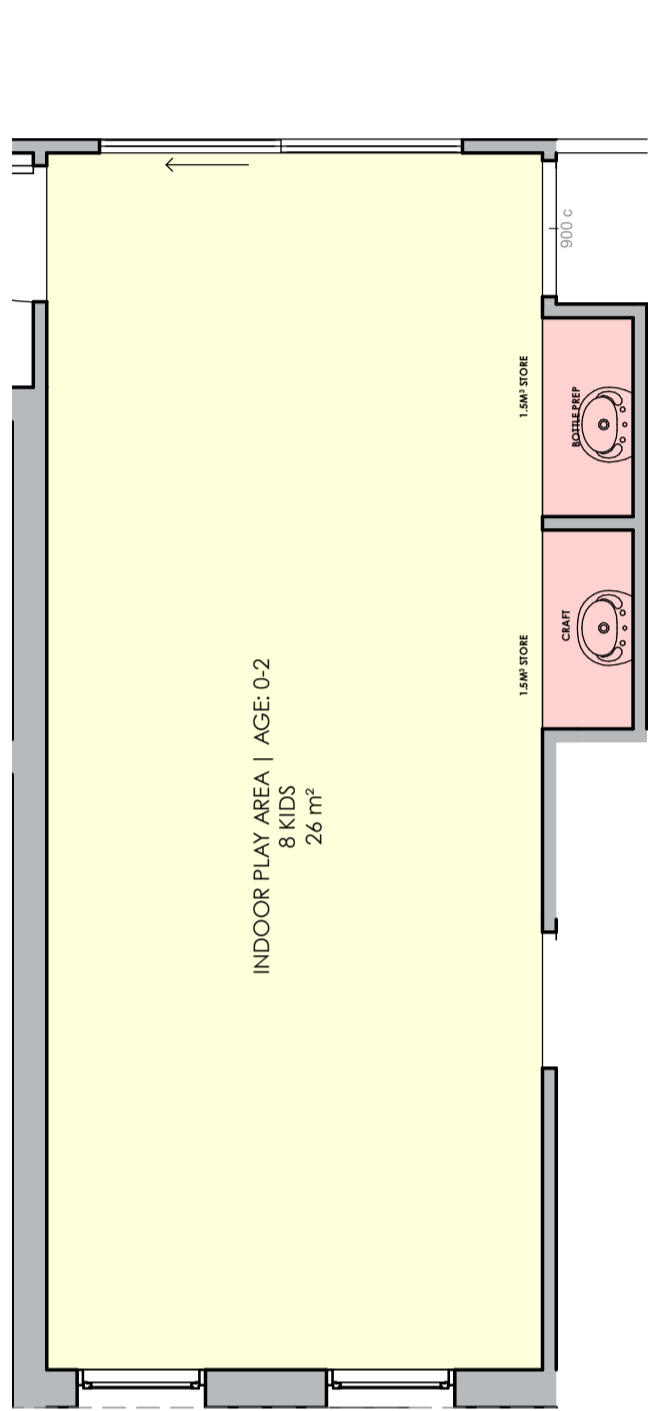
PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
22005	19	CB
SCALE @ A1	CHECKED BY	
1 : 100	CB	

Name	Area
OFFICE	9 m <sup>2</sup>
KITCHEN	13 m <sup>2</sup>
STAFF	12 m <sup>2</sup>
ACC. WC	6 m <sup>2</sup>
OUTDOOR STORE	8 m <sup>2</sup>
0-5 OUTDOOR PLAY AREA	581 m <sup>2</sup>
INDOOR PLAY AREA   AGE: 2-3	82 m <sup>2</sup>
INDOOR PLAY AREA   AGE: 0-2	26 m <sup>2</sup>
INDOOR PLAY AREA   AGE: 3-5	163 m <sup>2</sup>
STORE	2 m <sup>2</sup>
STORE	1 m <sup>2</sup>
BATH   AGE: 0-3	10 m <sup>2</sup>
COT ROOM	8 m <sup>2</sup>
BATH   AGE: 3-5	7 m <sup>2</sup>
STORE	2 m <sup>2</sup>
ACCESSIBLE	6 m <sup>2</sup>
LDY	4 m <sup>2</sup>
WASTE	10 m <sup>2</sup>
SERVICES	8 m <sup>2</sup>

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PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
CALCULATION PLAN - GROUND FLOOR

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- UNEMCUMBERED INDOOR PLAY SPACE
- EMCUMBERED INDOOR PLAY SPACES

SPACES	SQM
CRAFT BENCH/ BOTTLE PREP	1.58m²
INDOOR STORE	1.58m²
EMCUMBERED AREA	3.16m²
INDOOR PLAY AREA	26m²
TOTAL: 29.16m²	

1

CALCULATION PLAN- 0-2 INDOOR PLAY AREA

1 : 50

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22

KEY

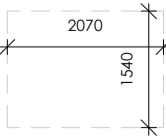
- SITE BOUNDARY
- DEMOLISHED
- CIRCULATION SPACE

- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- AREA CALC.

- 0 - 2 INDOOR PLAY AREA
- 2 - 3 INDOOR PLAY AREA
- 3 - 5 INDOOR PLAY AREA

NOTE

RECESSED FLOOR TRACKS TO BE USED FOR ALL EXTERNAL SLIDING DOORS  
ALL DOORS TO BE 850mm CLEAR  
MIN CIRCULATION SPACE TO BE PROVIDED PER BELOW



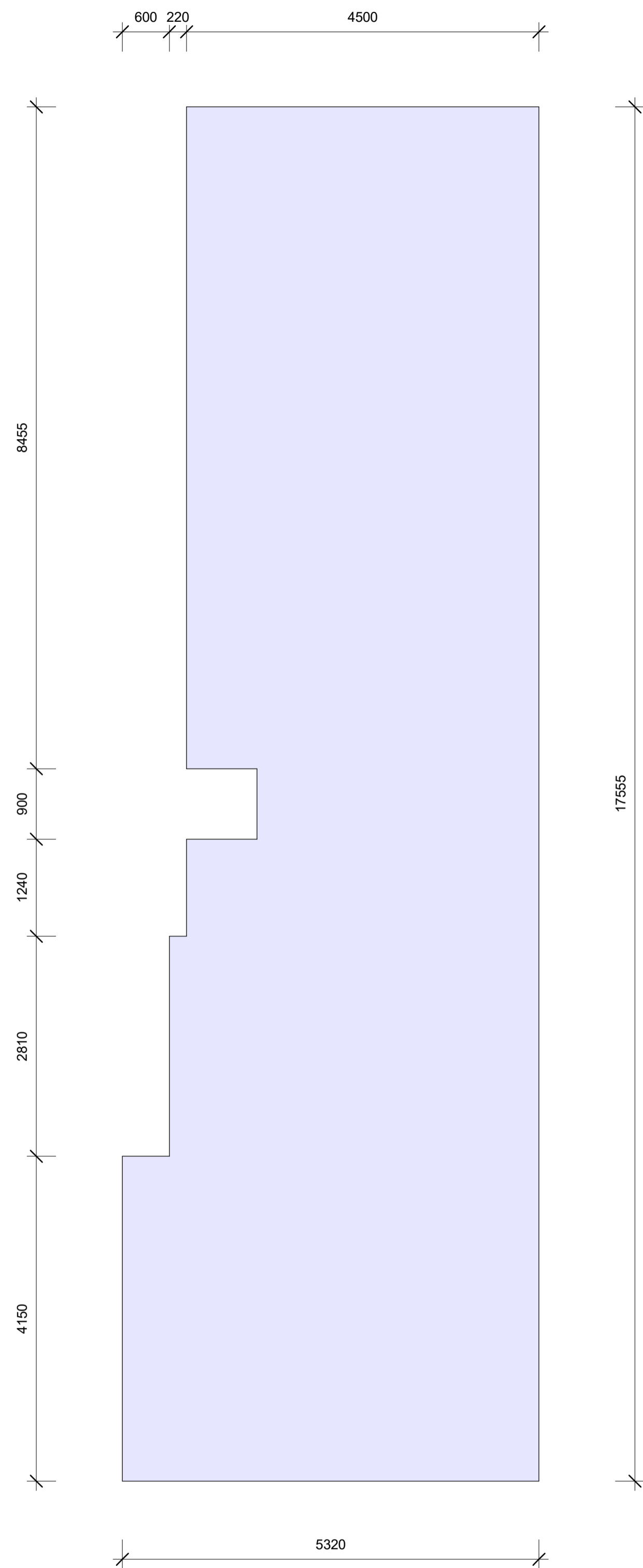
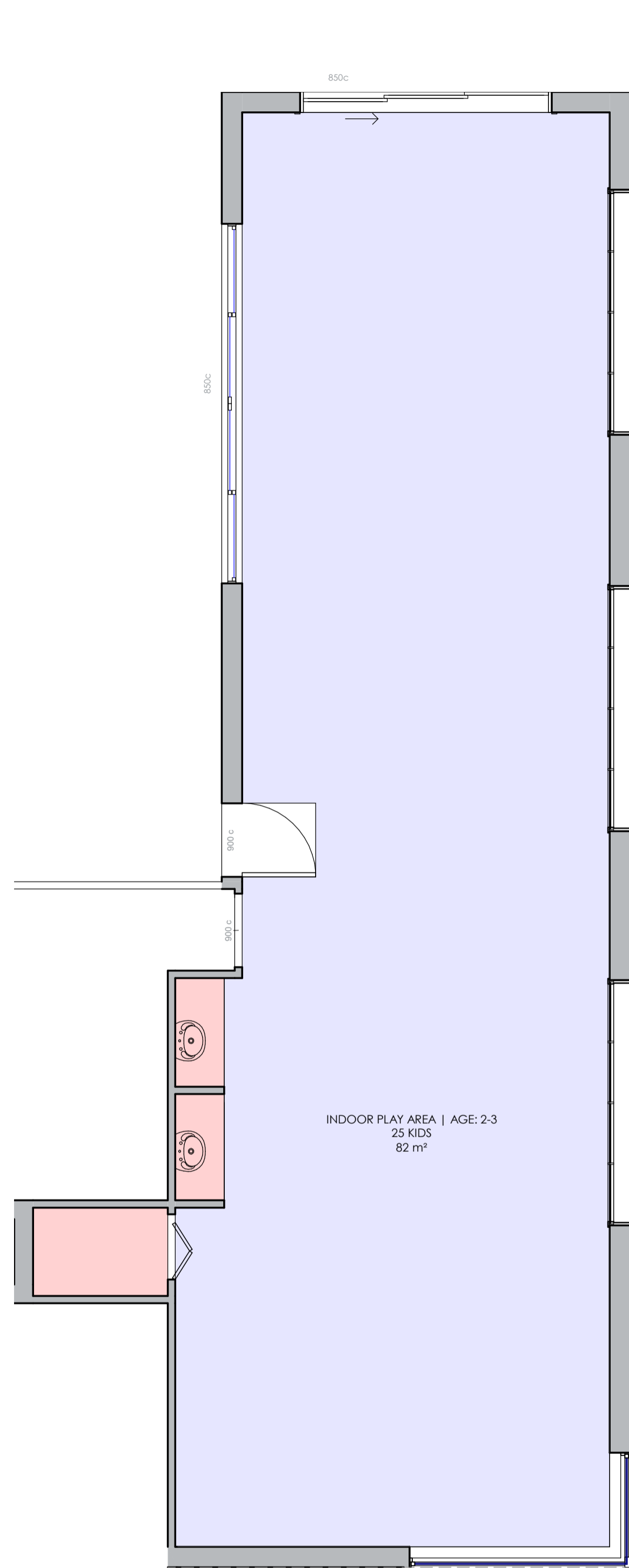
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18 Villiers St, Parramatta, NSW, 2150  
PO BOX 2402, North Parramatta, NSW, 1750

PROJECT TITLE			
PROPOSED CHILDCARE CENTRE			
7 Yates Avenue, Dundas Valley, 2117			
DRAWING TITLE			
CALCULATION PLAN 0 - 2 INDOOR PLAY AREA			

PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
	20	CB
22005	SCALE @ A1	CHECKED BY
	As indicated	CB

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FOR DA APPROVAL



- UNEMCUMBERED INDOOR PLAY SPACE
- EMCUMBERED INDOOR PLAY SPACES

SPACES	SQM
CRAFT BENCH/ BOTTLE PREP	1.6m <sup>2</sup>
INDOOR STORE	1.78m <sup>2</sup>
EMCUMBERED AREA	3.38m <sup>2</sup>
INDOOR PLAY AREA	82m <sup>2</sup>
TOTAL: 85.38m <sup>2</sup>	

# 1 CALCULATION PLAN- 2-3 INDOOR PLAY AREA

1 : 50

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22

## KEY

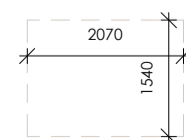
- SITE BOUNDARY
- DEMOLISHED
- CIRCULATION SPACE

- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- AREA CALC.

- 0 - 2 INDOOR PLAY AREA
- 2 - 3 INDOOR PLAY AREA
- 3 - 5 INDOOR PLAY AREA

## NOTE

RECESSED FLOOR TRACKS TO BE USED FOR ALL EXTERNAL SLIDING DOORS  
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MIN CIRCULATION SPACE TO BE PROVIDED PER BELOW



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PROJECT TITLE	PROPOSED CHILDCARE CENTRE
	7 Yates Avenue, Dundas Valley, 2117
DRAWING TITLE	CALCULATION PLAN 2-3 INDOOR PLAY AREA

PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
22005	21	CB
SCALE @ A1	CHECKED BY	
As indicated	CB	

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1

CALCULATION PLAN- 3-5 INDOOR PLAY AREA

1 : 50

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22

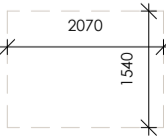
KEY

SITE BOUNDARY	<div></div>	EXISTING STRUCTURE	<div></div>
DEMOLISHED	<div></div>	PROPOSED STRUCTURE	<div></div>
CIRCULATION SPACE	<div></div>	AREA CALC.	<div></div>

0 - 2 INDOOR PLAY AREA	<div></div>
2 - 3 INDOOR PLAY AREA	<div></div>
3 - 5 INDOOR PLAY AREA	<div></div>

NOTE

RECESSED FLOOR TRACKS TO BE USED FOR ALL EXTERNAL SLIDING DOORS  
ALL DOORS TO BE 850mm CLEAR  
MIN CIRCULATION SPACE TO BE PROVIDED PER BELOW

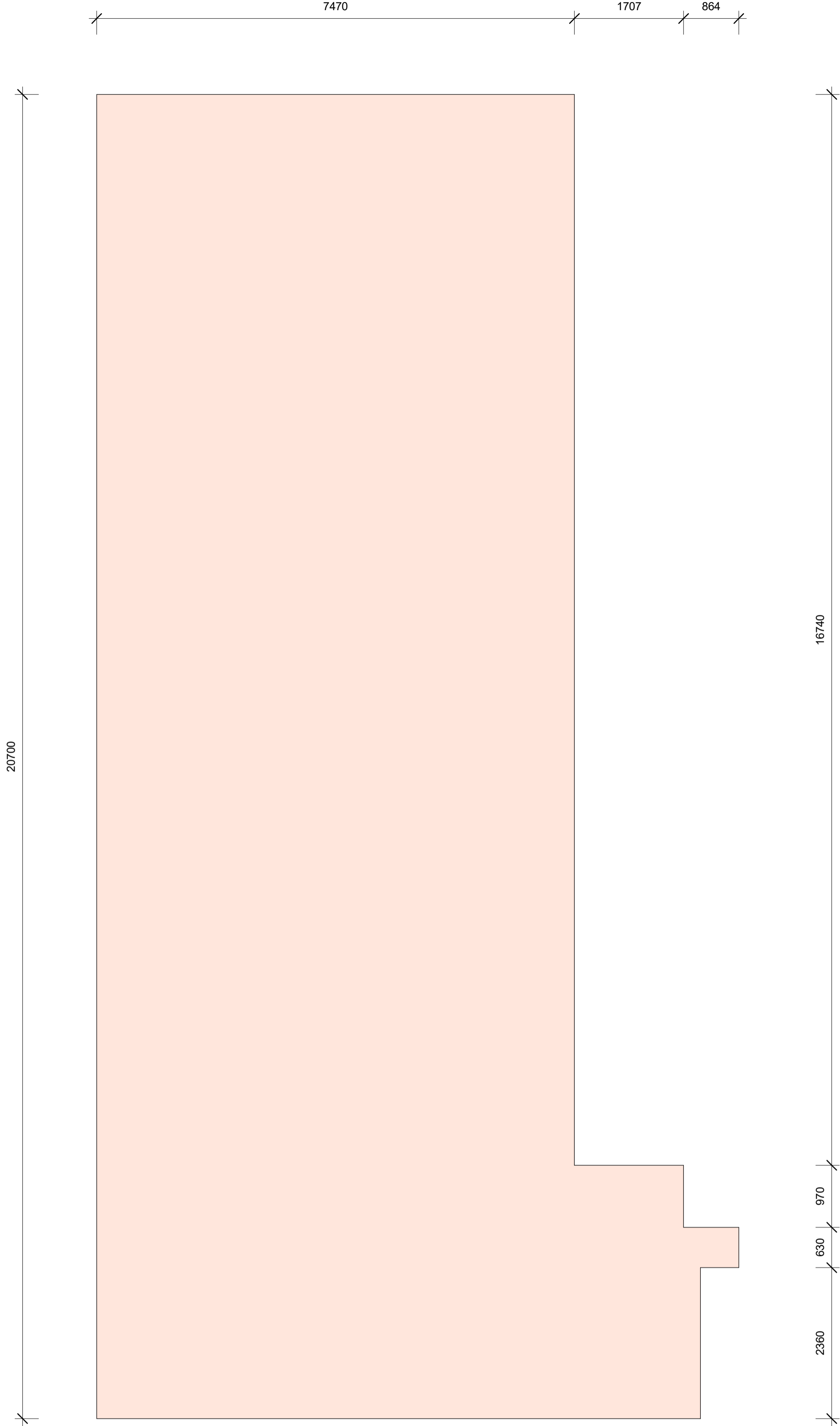
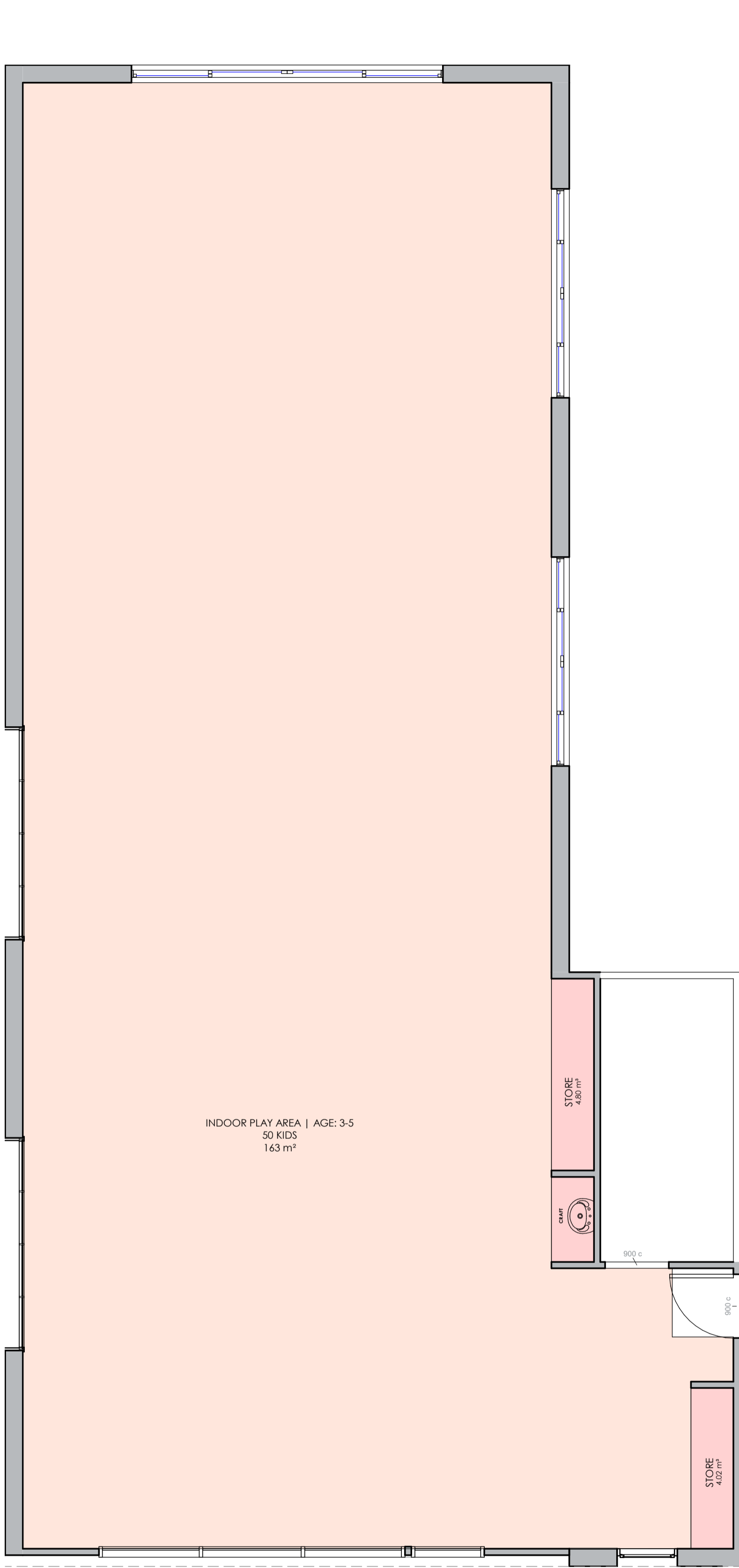


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PROJECT TITLE	PROPOSED CHILDCARE CENTRE
	7 Yates Avenue, Dundas Valley, 2117
DRAWING TITLE	CALCULATION PLAN 3-5 INDOOR PLAY AREA

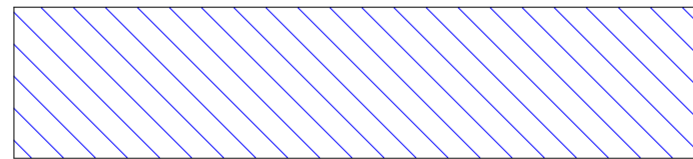
PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
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22005	SCALE @ A1	CHECKED BY
	As indicated	CB

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<div></div>	UNEMCUMBERED INDOOR PLAY SPACE
<div></div>	EMCUMBERED INDOOR PLAY SPACES

SPACES	SQM
CRAFT BENCH/ BOTTLE PREP	0.72m²
INDOOR STORE	2.96m²
EMCUMBERED AREA	3.68m²
INDOOR PLAY AREA	163m²
TOTAL: 166.68m²	



SHADING DEVICES

TOTAL GROUND FLOOR OUTDOOR PLAY AREA: 581m<sup>2</sup>

TOTAL GROUND FLOOR SHADING AREA: 210m<sup>2</sup>

PERCENTAGE OF SHADING AREA: 36%

1 SOLAR STUDY PLAN-GROUND FLOOR  
1 : 100

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22

KEY

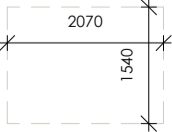
SITE BOUNDARY	- - - - -
DEMOLISHED	- - - - -
CIRCULATION SPACE	

EXISTING STRUCTURE	
PROPOSED STRUCTURE	
AREA CALC.	

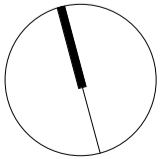
0 - 2 INDOOR PLAY AREA	
2 - 3 INDOOR PLAY AREA	
3 - 5 INDOOR PLAY AREA	

NOTE

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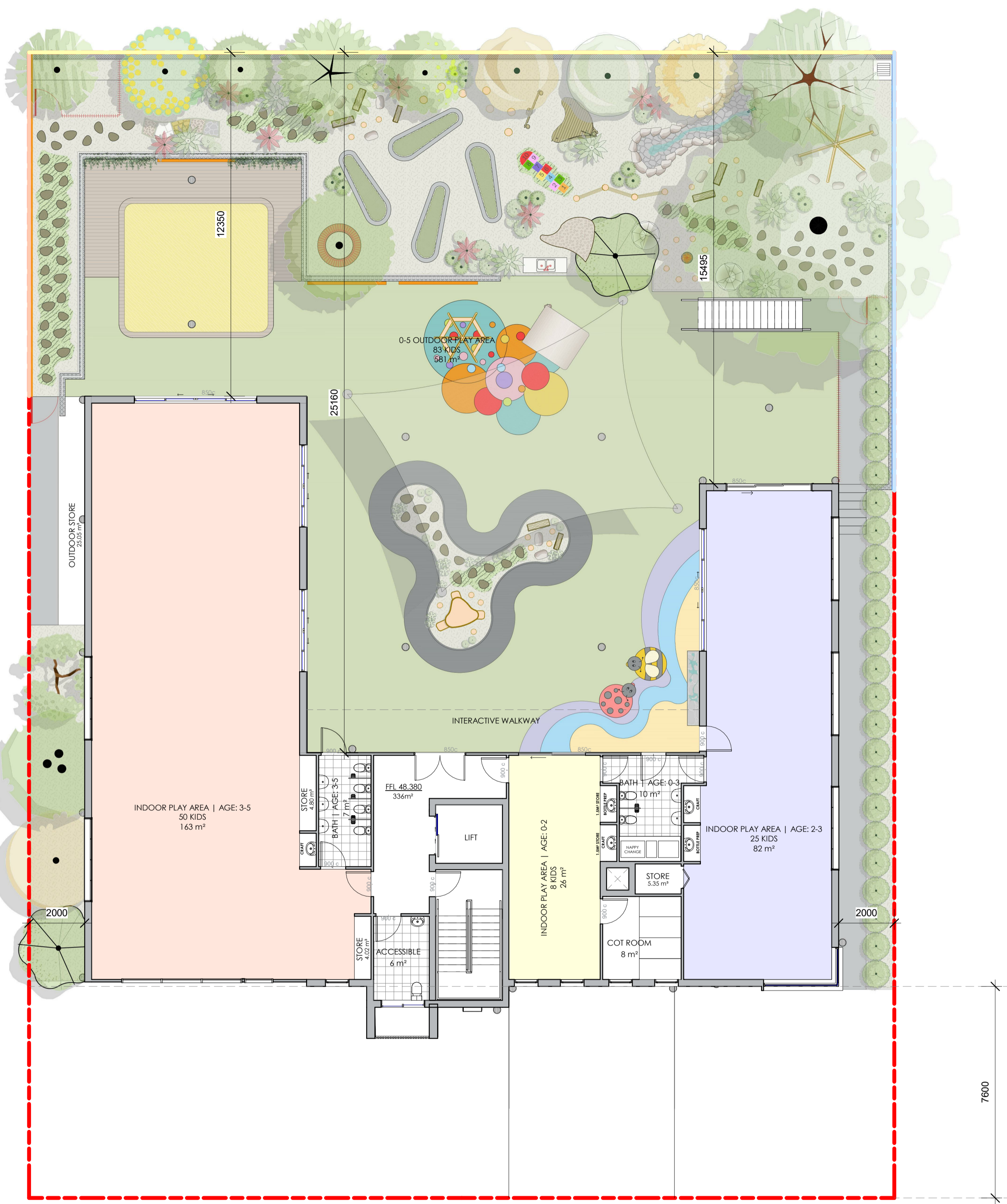
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SCALE @ A1	CHECKED BY	
1 : 100	CB	

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FOR DA APPROVAL



1 FENCING DETAIL - GROUND FLOOR  
1 : 100

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22

KEY

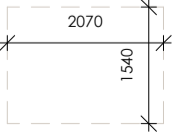
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DEMOLISHED	- - - - -
CIRCULATION SPACE	▨

EXISTING STRUCTURE	■
PROPOSED STRUCTURE	■
AREA CALC.	▨

0 - 2 INDOOR PLAY AREA	■
2 - 3 INDOOR PLAY AREA	■
3 - 5 INDOOR PLAY AREA	■

NOTE

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KEY : ACOUSTIC BARRIER & FENCE HEIGHTS

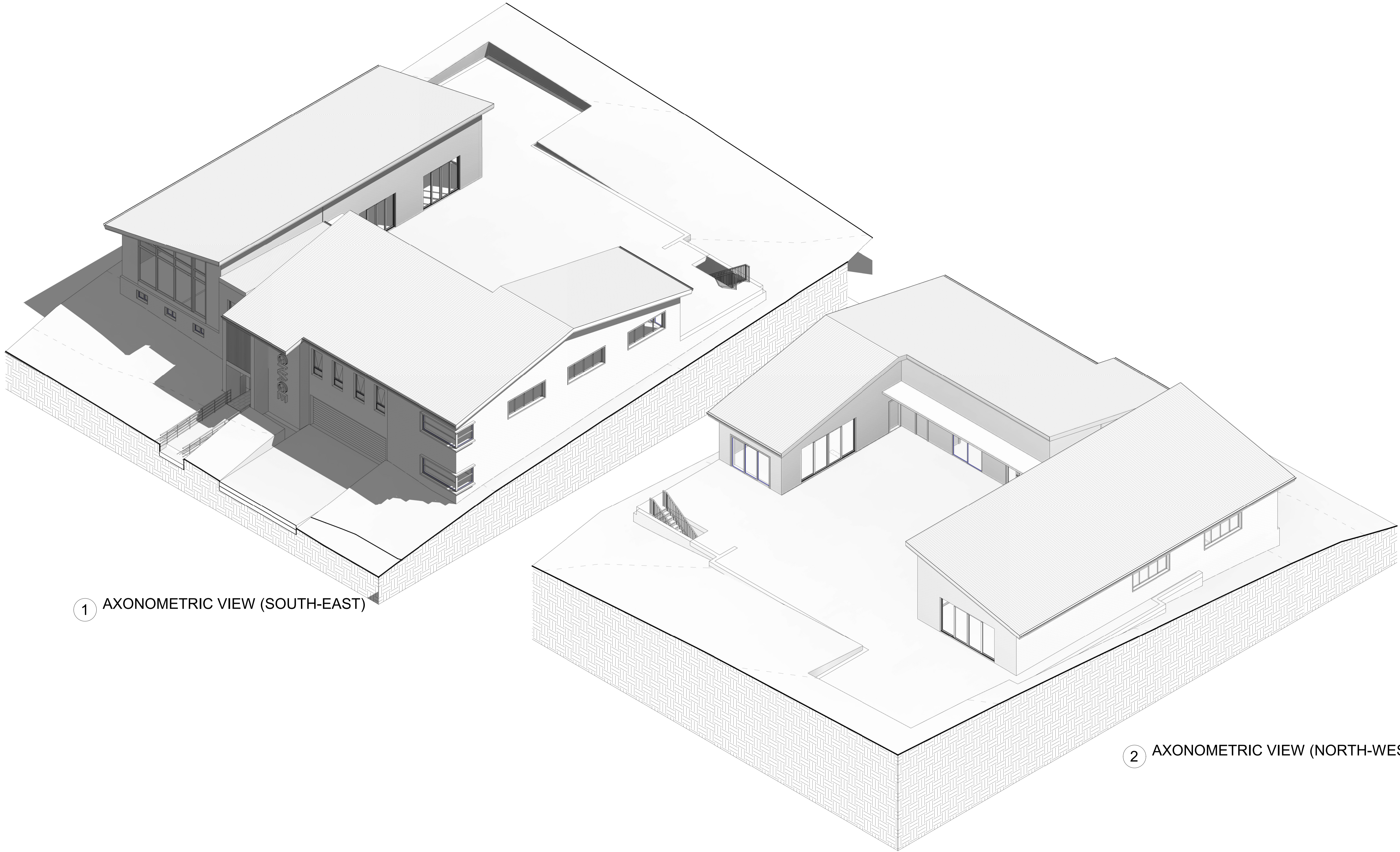
2.1m BARRIER FENCE	—
2.2m BARRIER FENCE	—
2.6m BARRIER FENCE	—

FOR DA APPROVAL

PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
FENCING DETAILS - GROUND FLOOR

PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
22005	24	CB
SCALE @ A1	CHECKED BY	
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1 AXONOMETRIC VIEW (SOUTH-EAST)

2 AXONOMETRIC VIEW (NORTH-WEST)

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22



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bdaa

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PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
3D PERSPECTIVES

**FOR DA APPROVAL**

PROJECT NUMBER  
DRAWING NUMBER  
DRAWN BY  
CHECKED BY

22005  
25  
CB  
SCALE @ A1  
CB

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KEY

SITE BOUNDARY

DEMOLISHED

CIRCULATION SPACE

## EXISTING STRUCTURE

### PROPOSED STRUCTURE

AREA CALC.

0 - 2 INDOOR PLAY AREA

2 - 3 INDOOR PLAY AREA

3 - 5 INDOOR PLAY AREA

NOTE

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FOR ALL EXTERNAL SLIDING DOORS  
ALL DOORS TO BE 850mm CLEAR  
MIN CIRCULATION SPACE TO BE  
PROVIDED PER BELOW



**baini**design  
bdaa BUILDING DESIGNERS ASSOCIATION OF AUSTRALIA  
ACCREDITATION NUMBER: 6607

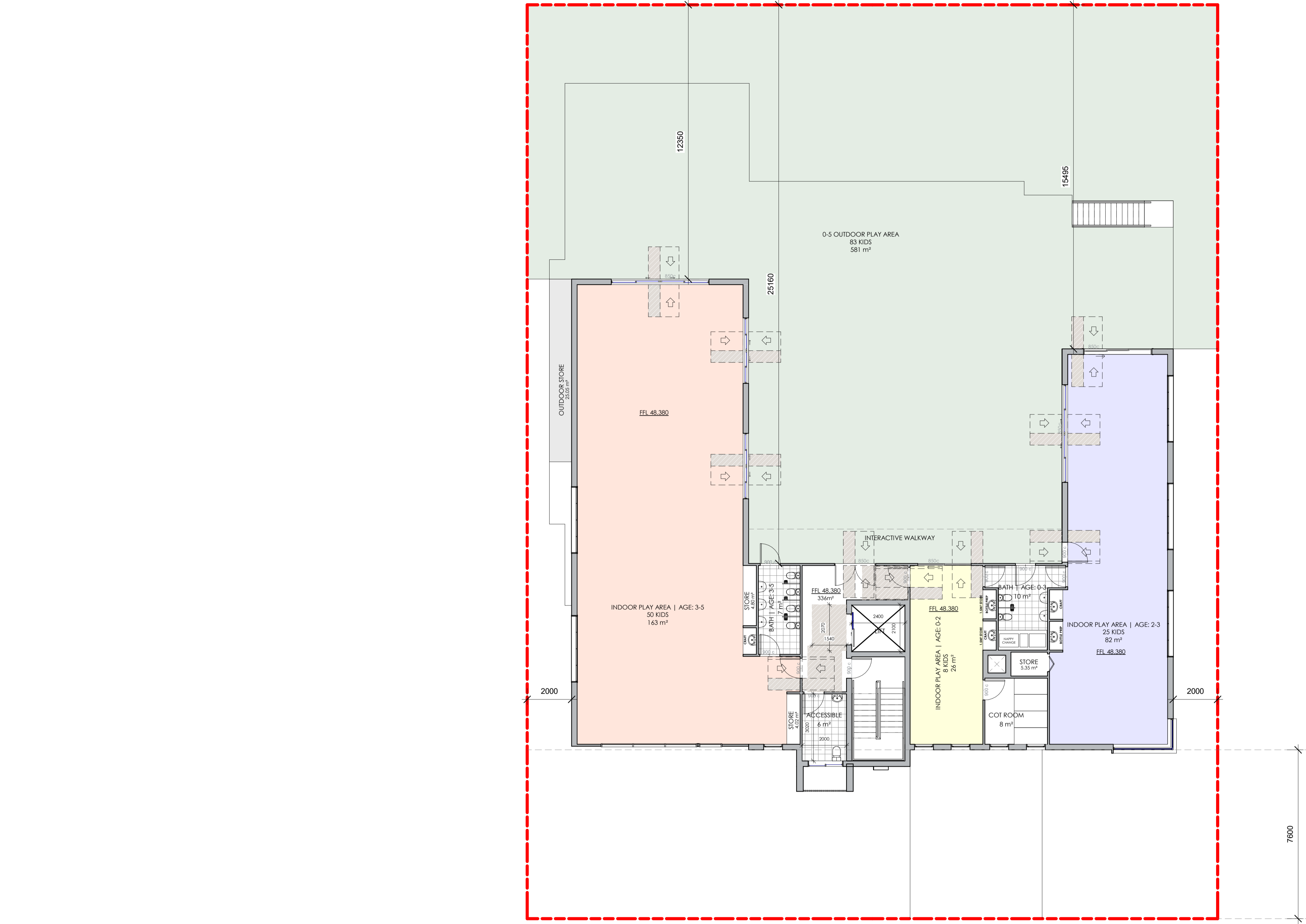
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1B Villiers St, Parramatta, NSW, 2150  
PO BOX 2402, North Parramatta, NSW, 1750

PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117

DRAWING TITLE  
ACCESS DETAIL - LOWER GROUND FLOOR

PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
22005	26	CB
	SCALE @ A1	CHECKED BY
	1 : 100	CB

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1 ACCESS DETAIL - GROUND FLOOR  
1 : 100

REV	DESCRIPTION	DATE
A	PRE-DA SUBMISSION	18/10/21
B	DA SUBMISSION	06/10/22

KEY

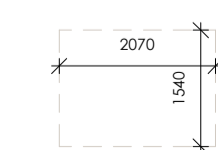
SITE BOUNDARY	- - - - -
DEMOLISHED	- - - - -
CIRCULATION SPACE	///

EXISTING STRUCTURE	■
PROPOSED STRUCTURE	■
AREA CALC.	///

0 - 2 INDOOR PLAY AREA	■
2 - 3 INDOOR PLAY AREA	■
3 - 5 INDOOR PLAY AREA	■

NOTE

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PROJECT TITLE  
PROPOSED CHILDCARE CENTRE  
7 Yates Avenue, Dundas Valley, 2117  
DRAWING TITLE  
ACCESS DETAIL - GROUND FLOOR


PROJECT NUMBER	DRAWING NUMBER	DRAWN BY
22005	27	CB
SCALE @ A1	CHECKED BY	
1 : 100	CB	

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CLIENT

**M GROUP INVEST PTY LTD**

PROJECT

**CHILDCARE CENTRE**  
**7 YATES DRIVE, DUNDAS VALLEY**

---

DRAWING NO:

**L-03**

SCALE

**1:100@A1**

ISSUE

**A**

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DRAWN

**DB**

CHECKED


**RS**

DATE

**05-10-22**

DRAWING

**ELEVATIONS**





STORMWATER

CIVIL

FLOODING

STRUCTURAL

REMEDIAL

20220268



REVISION 02

# PROPOSED STORMWATER DRAINAGE PLANS

Proposed Stormwater Development  
7 Yates Avenue Dundas Valley 2117

Reference  
20220268-DA-SW-DWG-02


Client  
Joe Madrajat

Architect  
Baini Design



Drawing Register		
Number	Name	Revision
S100	Cover Sheet	02
S101	Specifications Sheet	02
S200	Basement Plan	02
S201	Ground Floor Plan	02
S202	Roof Plan	02
S300	Details Sheet 1 of 3	02
S301	Details Sheet 2 of 3	02
S302	Details Sheet 3 of 3	02
S400	Erosion and Sediment Control Plan	02
S500	Music Catchment Plan	02
S501	Music Report	02
S600	Grading Plan	02
S601	Bulk Earthwork Plan	02

DBYD DECLARATION



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

SERVICES NOTE

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

ABBREVIATIONS	
O or DIA	DIAMETER
CO	CLEAR OUT
DDO	DISH DRAIN OUTLET
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
IL	INVERT LEVEL
KIP	KERB INLET PIT
NGL	NATURAL GROUND LEVEL
OFF	OVERLAND FLOWPATH
OSD	ON-SITE DETENTION
RCP	REINFORCED CONCRETE PIPE
RL	REDUCED LEVEL
RWT	RAINWATER TANK
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
TOK	TOP OF KERB
TOW	TOP OF WALL
uPVC	UNPLASTICISED POLYVINYL CHLORIDE

- General Notes
1. All work shall be carried out in accordance with council's requirements, building code of Australia, NSW code of practice and the to the relevant service codes.

2. These drawings shall be read in conjunction with all architectural and other consultants' drawings and specifications and with such other written instructions as may be issued during the course of the contract. All discrepancies shall be referred to the superintendent for decision before proceeding with the work.

3. All dimensions shown on the drawings are in millimeters (u.n.o.). Dimensions shall not be obtained by scaling of these drawings. Use figured dimensions only.

4. Benchmarks have been established where indicated on the drawings. ALL Levels are to Australian height datum A.H.D.). The contractor shall undertake all necessary survey work to ensure that the works are constructed to design line and level.

5. Setting out dimensions and levels shown on the drawings shall be verified by the contractor.

6. ALL materials shall be in accordance with the requirements of the relevant codes and the by-laws and ordinances of the relevant building authorities.

7. It is the contractor's responsibility to provide all safety fences, warning signs, traffic diversions and the like during construction. All works to comply with work health and safety requirements and other relevant authority safety requirements.

8. No trees shall be removed, cutback or relocated without the written instruction from the superintendent.

9. Where new works about existing the contractor shall ensure that a smooth even profile, free from abrupt changes is obtained.

10. All works shall be carried out in accordance with the details shown on the drawings and these specifications.

11. Design Levels given are to finished surface level and inclusive of topsoil. (topsoil depth varies)

12. The contractor shall arrange all survey set out to be carried out by a registered surveyor.

13. Care is to be taken when excavating near existing services. No mechanical excavations are to be undertaken over telecommunications or electrical services. Hand excavate in these areas.

14. The locations of underground services shown on the drawing have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.

15. The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment after installation.

16. Deboke Engineering Consultants do not guarantee that the services information shown on the drawing shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

17. It is the contractor's responsibility to obtain from the utility services authorities a current copy of underground services search for the location of all existing services prior to commencement of any work and notify any conflict with the drawings immediately. Clearance shall be obtained from the relevant regulatory authority. Contractor to keep copy of underground services search on site at all times. Any damages to services or services adjustments shall be carried out by the contractor or relevant authority at the contractor's expense.

18. Visit the site before submitting the final tender price to assess 'on site' conditions. Failure to do so will forfeit any claim for not being aware of conditions affecting the tender.

19. The contractor shall prepare accurate work-as-executed drawings following the completion of all works.

20. It is the contractor's responsibility to have in place & maintain traffic facilities at all times during construction.

21. Contractor to provide workshop coordinated drawings prior to commencing works on site. Workshop drawings to be reviewed and approved by design engineer.

- Erosion and Sediment Control Notes
1. Before earthworks can commence the erosion & sediment control measures must be in place.

2. During the construction period, these control measures will need to be inspected & maintained regularly, especially after storm events, by the contractor.

3. All work is to be carried out to prevent erosion, contamination & sedimentation of the storage site, surrounding areas & drainage systems.

4. Minimize disturbed area covered with natural vegetation. Only those areas directly required for construction are to be disturbed.

5. Install erosion/sediment control measures prior to commencement of construction or excavation operations.

6. Provide silt fence/straw bale barriers to the low side of all exposed earth excavations. Tie sediment fencing material to cyclone wire security fence. Sediment control fabric shall be an approved material (eg. Humes propex silt stop) standing 300mm above ground & extending 150mm below ground.

7. Isolate existing stormwater pits with straw bales or silt traps to filter all incoming flows.

8. Do not stockpile excavated material on the roadway.

9. Divert clean water from undisturbed areas around the working areas.

10. Construction entry/exit shall be via the location noted on the drawing. Contractor shall ensure all droppable soil & sediment is removed prior to construction traffic exiting site. Contractor shall ensure all construction traffic entering and leaving the site do so in a forward direction.

11. Treat the stormwater runoff with suspended solids so the discharge water quality to council stormwater drainage system has a maximum concentration of suspended solids that does not exceed 50 milligrams per litre in accordance with the protection of the environment operation act (poee 1997) and shall be approved by local council.

12. Adopt temporary measures as may be necessary for erosion & sediment control, including but not limited to the following:-  
-Drains: temporary drains and catch drains.  
-Spreader banks or other structures: to disperse concentrated runoff.  
-Silt traps: construction and maintenance of silt traps to prevent discharge of scoured material to downstream areas.

13. After rain, inspect, clean, and repair if required, temporary erosion & sediment control measures.

14. Remove temporary erosion & sediment control measures when they are no longer required.

15. Comply with the requirements of Landcom's Managing Urban Stormwater - Soil and Construction 'The Blue Book' latest edition

16. The erosion & sediment control plan provided is only indicative. The contractor should prepare a detailed ESCP suitable for the specific site conditions

- Stormwater Notes
1. Contractor must verify all dimensions & existing levels, services & structures on site prior to commencement of work.

2. Plans to be read in conjunction with approved Architectural, Landscape, Structural, Hydraulic, & other services drawings & specifications. If any discrepancies exist between the drawings, the builder shall report the discrepancies to the engineer prior to commencement of any works.

3. Where subsoil drainage lines pass under floor slabs & vehicular pavements, slotted uPVC sewer grade pipe shall be used.

4. Charged lines to be sewer grade & sealed.

5. All pipes to have min 150mm cover if located within property.

6. All pits in driveways to be concrete & all pits in landscaped areas may be plastic.

7. Pits less than 600mm deep may be brick, precast or concrete.

8. All balconies & roofs to be drained & to have safety overflows in accordance with relevant Australian standards.

9. All grates to have child proof locks.

10. All drainage works to avoid tree roots.

11. Council's issued footway design levels to be incorporated into the finished levels once issued by council.

12. All works shall be in accordance with NCC BCA 2019 & A.S.3500.3.

13. Care to be taken around existing sewer. Structural advice required for sewer protection against additional loading from new pits, pipes, retaining walls & OSD basin water levels.

14. All ø300 drainage pipes & larger shall be class 2 approved spigot & socket RCP pipes with rubber ring joints (U.N.O.). All drainage pipes up to & including ø225 shall be sewer grade uPVC with solvent weld joints (U.N.O.).

15. All pipe junctions, bends & tapers up to & including ø450 shall be via purpose made fittings.

16. Contractor to supply & install all fittings including various pipe adaptors to ensure proper connection between dissimilar pipe work.

17. All connections to existing drainage pits shall be made in accordance with the NCC BCA 2019 and relevant Australian Standards. The internal wall of the pit at the point of entry shall be cement rendered to ensure a smooth finish.

18. Bedding shall be type H1 (U.N.O.), in accordance with current relevant Australian standards.

19. Where stormwater lines pass under floor slabs, sewer grade rubber ring joints are to be used.

20. All pipes in covered balconies to be ø65 uPVC cast in concrete slab.

21. Ø65 PVC @ min 1.0% Ø90 PVC @ min 1.0% Ø100 PVC @ min 1.0% Ø150 PVC @ min 1.0% Ø225 PVC @ min 0.5% Ø300 PVC @ min 0.4% Unless Noted Otherwise

22. Contractor to provide a break / open void in rail / balustrade for stormwater emergency overflow.

23. All enclosed areas/planter boxes be fitted with floor wastes.

24. Downpipes to be checked by architect & plumber prior to construction.

25. Provide 3.0m length of ø100 subsoil drainage pipe wrapped in fabric sock, at upstream end of each pit.

26. All the cleaning eyes (or inspection eyes) for the underground pipes must be taken up to the finished ground level for easy identification & maintenance purposes.

27. All sub-soil drainage shall be provided with a filter sock. The subsoil drainage shall be installed in accordance with details to be provided by the landscape architect.

28. Prior to commencing any works, the builder shall ensure that the invert levels of where the site stormwater system connects into the council's kerb/drainage system matched the design levels. Any discrepancies shall be reported to the design engineer immediately.

29. For stormwater drainage pipes that exceed 1:5 grade, reinforced concrete anchor blocks shall be installed. Anchor blocks to be constructed to specifications set out in AS3500.3-2003 section 8.10

30. Existing services shown in approximate locations only. Confirm exact locations and depths on site prior to commencing work.

31. Coordinate the installation of new services with all new & existing services & structural provisions as determined on site.

32. All pipework is to be tested in accordance with the requirements as set out in AS3500.3-2003. All in-ground pipework to be inspected by the superintendent under test conditions prior to backfilling. Backfilling and bedding to AS3500.3-2003.

33. Pipes shall be true to grades shown and aligned so that the centre of the inlet pipe intersects with the centre of the outlet pipe at the downstream face of the pit.

34. Lay and joint all pipes in accordance with the manufacturer's recommendations and AS3725-2007 'design for installation of buried concrete pipes'.

35. Allow to test all pipes and pits to local authority's requirements.

36. Excavate trenches and stockpile all material for inspection with regard to reuse for trench backfill. Remaining material to be removed from site.

37. Backfill pipes with imported fill. Provide 200mm side support and 150mm overlay above pipe crown. Trench fill above the embedment zone to the underside of the road pavement or the footway shall be as follow:-

Under roadway  
Trench fill material shall consist of imported fill as specified herein of either high grade compaction sand or approved crushed road gravel conforming to T&NSW QA specification 3051 or similar.

Other than roadway  
Trench material excavated shall consist of select fill as specified herein and shall not contain more than 20% of stones of size between 25mm and 75mm and none larger than 75mm. Prior to use of the excavated material it shall be inspected and approved by the engineer.

38. Compact bedding, Embedment and trench fill materials as follow:-  
Embedment:-  
For granular fill material (non-cohesive soil) e.g. Coarse aggregate fill, the density index (id) shall be not less than 70%.  
Trench fill:-  
For granular material (non cohesive soils). The density index (id) shall be not less than 70%. For non-granular fill material (cohesive soils), the dry density ratio (rd) shall be not less than 95%.

39. Existing services  
Utility information shown on the plans is not intended to depict more than the presence of any services. Actual Locations should be verified by hand excavation prior to construction.

40. The contractor shall allow for the capping off, excavation and removal (if required) of all existing services in areas affected by the works.

41. The contractor shall ensure that services to all buildings not affected by the works are not disrupted at all times. The contractor shall construct temporary services to maintain existing supply to buildings remaining where required. Once the works are complete and commissioned the contractor shall remove all such temporary services and make good all disturbed areas.

42. Existing pipes which form no part of the drainage system shall be removed or sealed as indicated on the plans.

43. Where downpipes pass under floor slabs, sewer grade uPVC with rubber ring joints are to be used.

44. Minimum grade to drainage pipes to be 1% (U.N.O.), min. Size 100mm diameter (U.N.O.).

45. Pipe installation under trafficable areas shall be in accordance with concrete pipe association of Australia publication "concrete pipe selection & installation" type HS3 support.

46. Equivalent strength FRC pipes may be used subject to authority approval.

47. Minimum pipe cover to be 600mm under trafficable areas and 300mm elsewhere (U.N.O.).

48. Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.

49. Provide cleaning eyes to all downpipes not directly connected to pits.

50. Stormwater drainage connections to council's system shall be to the requirements and the satisfaction of the local council.

51. Drainage pits  
Pits deeper than 1200mm to be fitted with step irons at 300 centres to AS1657-2013 'fixed platforms, walkways, stairways and ladders - design, construction and installation'.

52. All exposed edges to be rounded with 20mm radius, or chamfered 20mm x 20mm.

53. Pit reinforcement - mesh SL82 lap to be 400mm min. Clear cover 40 mm. Cast against blinding or formwork. Corner returns may be fabric or equivalent bars.

54. Benching to be half outgoing pipe depth. Concrete for benching to be 20mpa mass concrete.

55. Approved precast pits may be used.

56. 100mm diameter hole for subsoil drainage outlet to be located 100mm above invert of all inlet pipes. Subsoil drainage to extend for a distance of 3m upstream of pit (at each inlet trench) with the upstream end sealed.

57. Pit grate, frames and solid covers shall be Class B in non traffic areas and Class D in trafficable areas in accordance with AS3996.

58. Maximum front entry pipe:-  
a. Straight entry - Ø750  
b. Skew entry 45° - Ø525

59. Subsoil drainage  
Subsoil pipes shall be laid at a min grade of 0.5% (U.N.O.).

60. Additional subsoil drainage shall be laid to suit site conditions and groundwater presence as directed.

61. Subsoil pipes shall be laid behind kerbs in cut areas of the site.

62. Grates to pits in footpath areas shall be heel safe complying with the disabled access code

63. Contractor to provide workshop coordinated drawings prior to commencing works on site. Workshop drawings to be reviewed and approved by design engineer.

64. All external area to have a minimum 1% fall to outlets provided.

65. Provide overflows to all areas to architect's specifications.

66. All rainwater outlets to open areas shall be SPS TRUFLO type TIA100F unless noted otherwise. Do not install balcony outlets or similar in areas subject to direct rainfall.
- Legend

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>

>

RAINWATER TANK LINES

>

>

>

STORMWATER LINE

>

>

>

BYPASS LINE

SSD

SSD

SSD

SUBSOIL LINE

SWRM

SWRM

SWRM

STORMWATER RISING MAIN

HL

HL

HL

HIGH LEVEL STORMWATER LINE

OF

OF

OF

OVERFLOW LINE

e

e

e

EXISTING STORMWATER LINE

SW

SW

SW

AUTHORITY STORMWATER LINE

S

S

S

AUTHORITY SEWER LINE

W

W

W

AUTHORITY WATER LINE

G

G

G

AUTHORITY GAS LINE

E

E

E

AUTHORITY ELECTRICITY LINE

UE

UE

UE

AUTHORITY UNDERGROUND ELECTRICITY LINE

FO

FO

FO

AUTHORITY FIBRE OPTIC LINE

TEL

TEL

TEL

AUTHORITY COMMS LINE

FENCE LINE

GRATED SURFACE INLET PIT

JUNCTION PIT

KERB INLET PIT

EXISTING KERB INLET PIT

eTEL

EXISTING TELSTRA PIT

eHYD

EXISTING HYDRANT

eSV

EXISTING STOP VALVE

ePP

EXISTING POWER POLE

eSMH

EXISTING SEWER MANHOLE

OFF

OVERLAND FLOW PATH

RWO

RAINWATER OUTLET

CO

CLEAR OUT POINT

CAPPING

DOWNPIPE DROP

DP

DOWNPIPE

FSL

SPOT LEVELS

▲

BENCHMARK

	Project No. 20220268-DA-SW-DWG-02	Drawing No. S101	Rev.	Description	Design	Date		Joe Madrajat	Project Proposed Stormwater Development	Drawn	JP	Designed	HJ	Discipline	Consultant	Reference	Revision	Date	 <div>E admin@deboke.com.au W deboke.com.au A 65 Blaxcell Street, Granville 2142</div> <div>COPYRIGHT This drawing and the information shown hereon is the property of deboke engineering consultants and may not be used for any purposes than for which supplied.</div>				
	Title Specifications Sheet	02	Issued For DA	HJ	17-08-2022	Reviewed				AA	Date	17-08-2022	Architect							Baini Design	----	2	31.05.2022
	Scale	01	Issued For DA	HJ	22-07-2022	Approved				AA	Date	17-08-2022	Surveyor							Unknown Surveyor	0621	A	07.03.2021
													Landscape							Baini Design	----	----	18.08.2022
													Geotechnical										
													Structural										
													Hydraulic/Fire										
													Mechanical										



# General Notes

SITE IS LOCATED IN CITY OF PARRAMATTA COUNCIL.

SITE AREA = 1279.35m<sup>2</sup>

SITE IS GOVERNED BY UPRCT HANDBOOK.

SITE IS LOCATED WITHIN PARRAMATTA CITY COUNCIL AREA, AND PONDS CREEK CATCHMENT, THEREFORE:

SSR = 330m<sup>3</sup>/ha  
PSD = 130L/s/ha

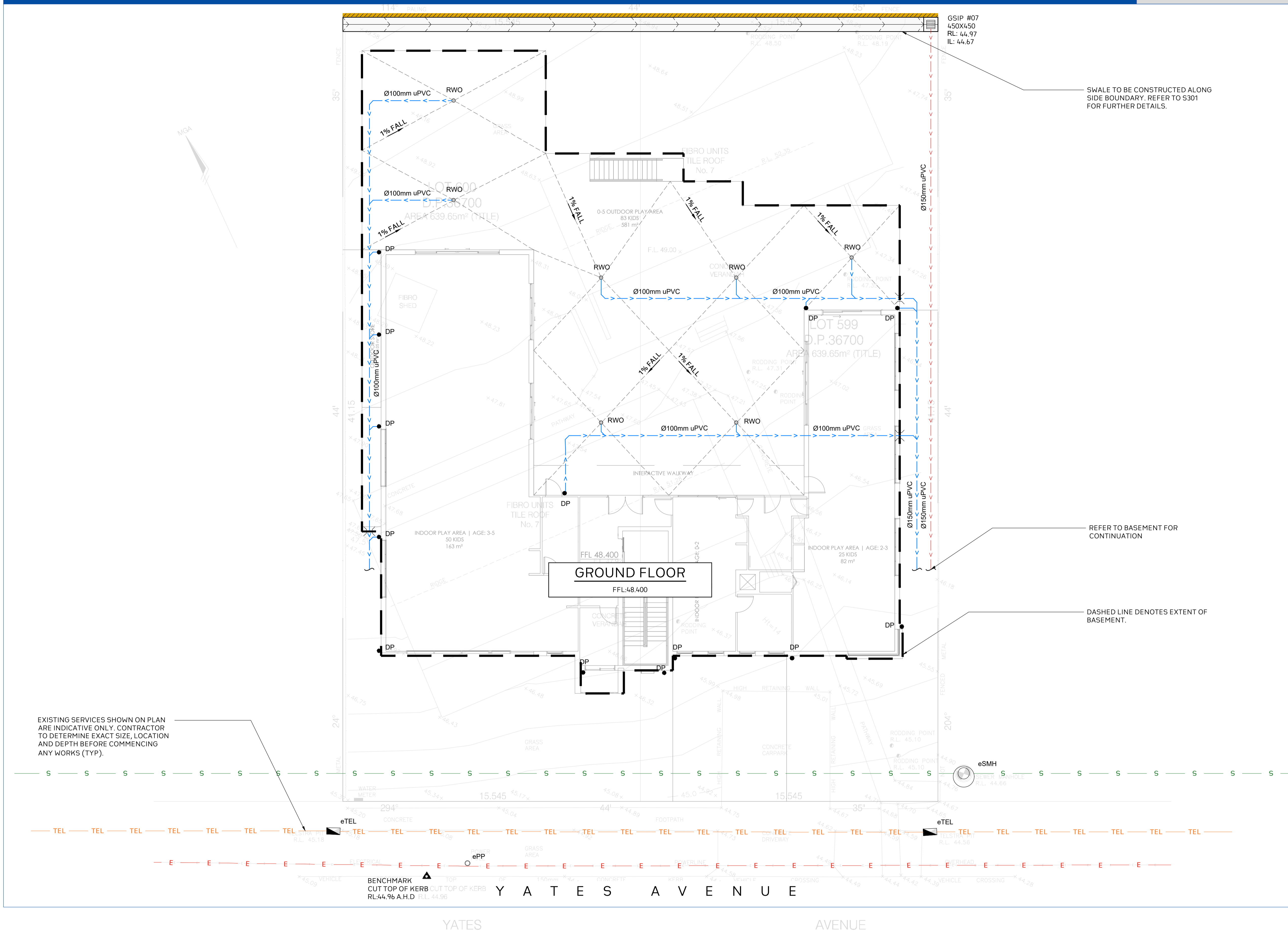
LOT'S CREATED AS A RESULT OF A SUBDIVISION AFTER 1991. THEREFORE OSD IS REQUIRED FOR ALL PROPOSED LOTS, IN ACCORDANCE TO THE CITY OF PARRAMATTA DEVELOPMENT ENGINEERING DESIGN GUIDELINES.

ALL DOWNPIPES SHOWN ON PLAN ARE Ø100mm uPVC U.N.O.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

1:100



deboke

CIVIL

Project No.  
20220268-DA-SW-DWG-02

Drawing No.  
S201

Title  
Ground Floor Plan

Scale

0m

1

2

3

4

5

SCALE 1:100 ON ORIGINAL SIZE

baini

design

Architect

Joe Madrajat

Client

Project

Proposed Stormwater Development

Application

Development Application

Address

7 Yates Avenue Dundas Valley 2117

LGA

CITY OF PARRAMATTA Council

Drawn

JP

Designed

HJ

Reviewed

AA

Date

17-08-2022

Approved

AA

Date

17-08-2022

Andrew Arida

B.E Civil/Structural

MIEAust (NO: 5579488)

Professional Engineer (PRE0000268)

Design Practitioner (DEP0000455)

Arida

Discipline

Consultant

Reference

Revision

Date

Architect

Baini Design

----

2

31.05.2022

Surveyor

Unknown Surveyor

0621

A

07.03.2021

Landscape

Baini Design

----

----

18.08.2022

Geotechnical

Structural

Hydraulic/Fire

Mechanical

deboke

ENGINEERING CONSULTANTS

E admin@deboke.com.au

W deboke.com.au

A 65 Blaxcell Street, Granville 2142

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Roof Notes

DOWNPIPES SHOWN ON PLAN ARE TO BE Ø100mm uPVC U.N.O. (TYP).

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION (TYP).

LYSAGHT® gutter areas and downpipes.

Minimum standard downpipe sizes to suit gutters (gutter gradient ≥ 1:500)

	Slotted	Effective # cross section	Round (diameter)	Rectangular or square
	YES/NO	mm²	mm	mm
Quad Hi-front	YES	5255	90	100x50
	NO	5809	90	100x50
Quad Lo-front	NO	6165	90	100x50
SHEERLINE®	YES	7600	100	100x75
	NO	8370	§	100x75
TRIMLINE®	YES	6244	90	100x50
	NO	7800	100	100x75
150 HaLF Round	YES	4675	90	100x50
	NO	7042	100	100x75
150 HaLF Round Flat Back	YES	4602	90	100x50
	NO	7042	100	100x75
Half Round 100	NO	4300	75	100x50*
HaLF Round 125	NO	6300	90	100x50'
Half Round 150	NO	9200	§	100x75*
HaLF Round 200	NO	14500	§	§
HaLF Round 250	NO	24500	§	§
HaLF Round 300	NO	35300	§	§

# Values calculated in accordance with AS/NZS 3500.3.  
§ Non standard downpipe and nozzle/pop is required.  
\* Non standard nozzle/pop is required to suit rectangular downpipe.

ROOF PLAN

1:100

DASHED LINE DENOTES EXTENT OF GROUND FLOOR.

DENOTES DOWNPIPE DROP (TYP).

ALL DOWNPIPES ARE TO BE Ø100mm uPVC U.N.O. (TYP).

DENOTES HIGH POINT IN EAVES GUTTER (TYP).

DENOTES DIRECTION OF FALL IN EAVES GUTTER (TYP).

Downpipe And Eaves Gutters									
Catchment	Area (m²)	Slope (DEG)	Type	Runoff (L/s)	Suggested DP	Number Required	Gutter Area (mm²)	Minimum Gutter Width (mm)	Minimum Gutter Depth (mm)
1	203.115	12.0	LYSAGHT SHEERLINE® - NOT SLOTTED	11.47	Ø100mm	5	7901	125	65
2	12.929	12.0	LYSAGHT SHEERLINE® - SLOTTED	0.84	Ø100mm	1	3720	85	45
3	52.837	12.0	LYSAGHT SHEERLINE® - SLOTTED	3.08	Ø100mm	2	5767	105	55
4	112.493	12.0	LYSAGHT SHEERLINE® - SLOTTED	6.43	Ø100mm	3	7504	120	65
5	55.917	12.0	LYSAGHT SHEERLINE® - SLOTTED	3.13	Ø100mm	2	5849	110	55

Project No. 20220268-DA-SW-DWG-02  
Title Roof Plan

Scale 0m 1 2 3 4 5  
SCALE 1:100 ON ORIGINAL SIZE

Rev. Description Design Date

02 Issued For DA HJ 17-08-2022

01 Issued For DA HJ 22-07-2022

Architect

Joe Madrajat

Client

Project Proposed Stormwater Development.

Application Development Application

Address 7 Yates Avenue Dundas Valley 2117

LGA CITY OF PARRAMATTA Council

Drawn JP

Reviewed AA

Approved AA

Designed HJ

Date 17-08-2022

Date 17-08-2022

Andrew Arida  
B.E Civil/Structural  
MIEAust (NO: 5579488)  
Professional Engineer (PRE0000268)  
Design Practitioner (DEP0000455)

Discipline Consultant Reference Revision Date

Architect Baini Design ---- 2 31.05.2022

Surveyor Unknown Surveyor 0621 A 07.03.2021

Landscape Baini Design ---- ---- 18.08.2022

Geotechnical

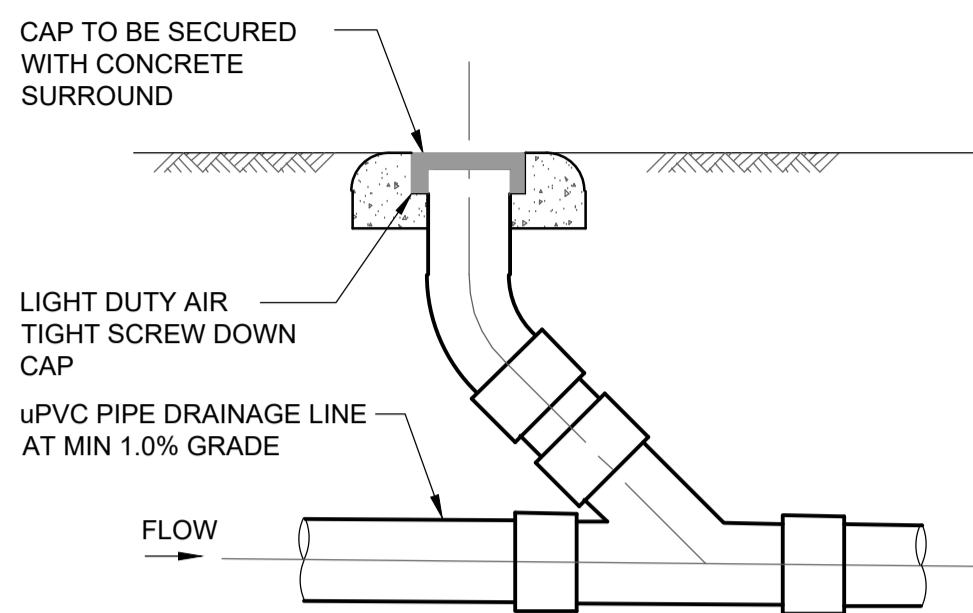
Structural

Hydraulic/Fire

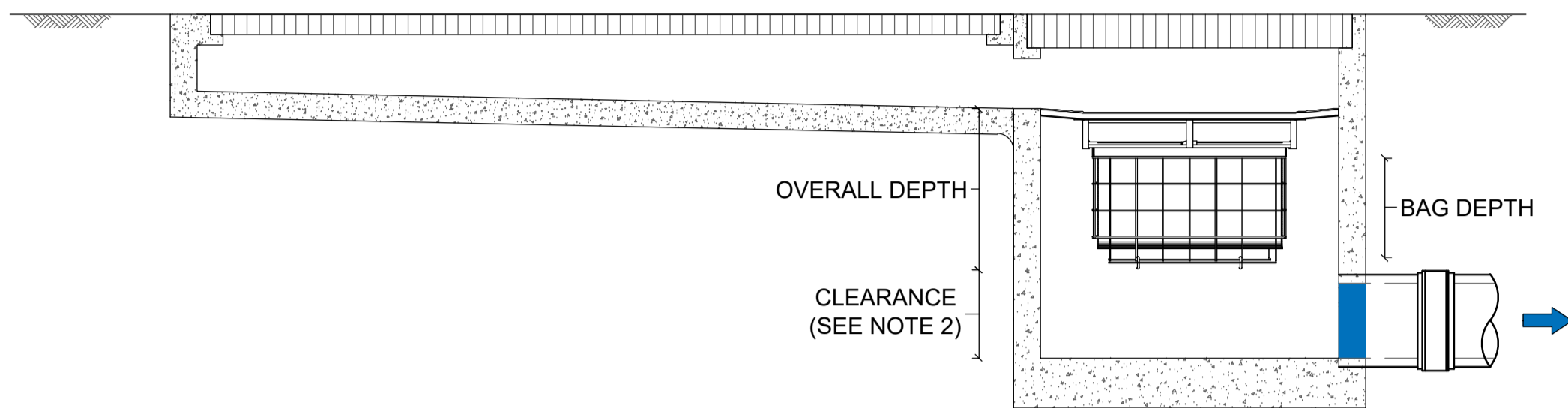
Mechanical

E admin@deboke.com.au  
W deboke.com.au  
A 65 Blaxcell Street, Granville 2142

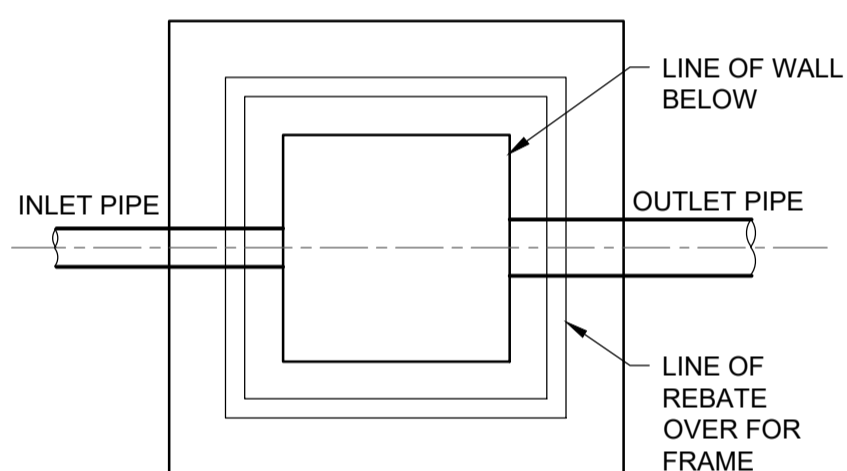
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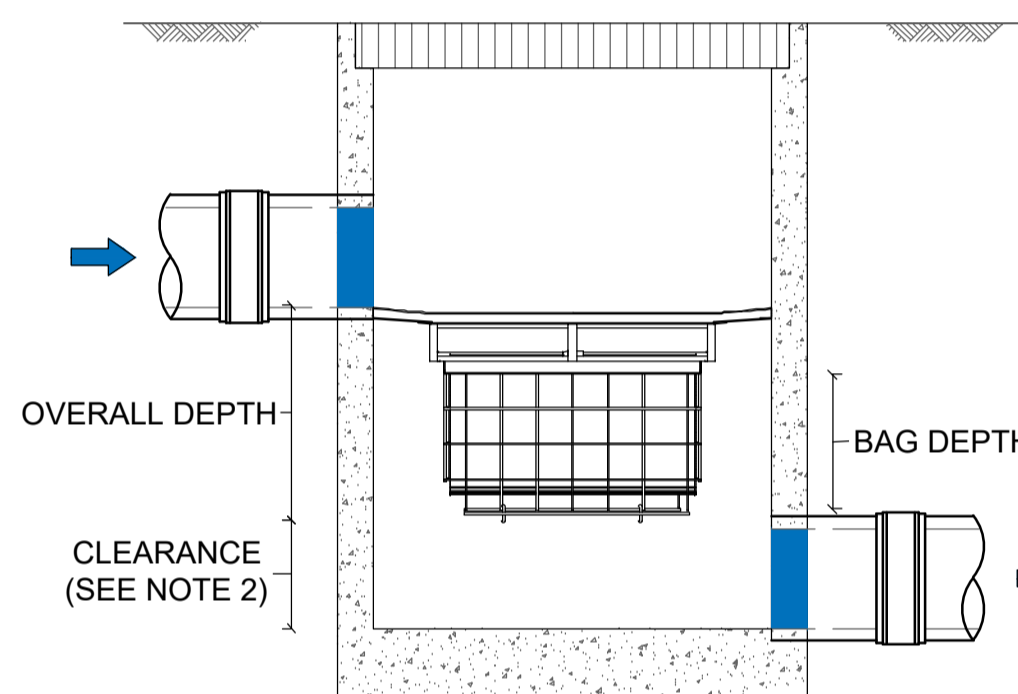
**CLEANING EYE**  
SCALE 1:20



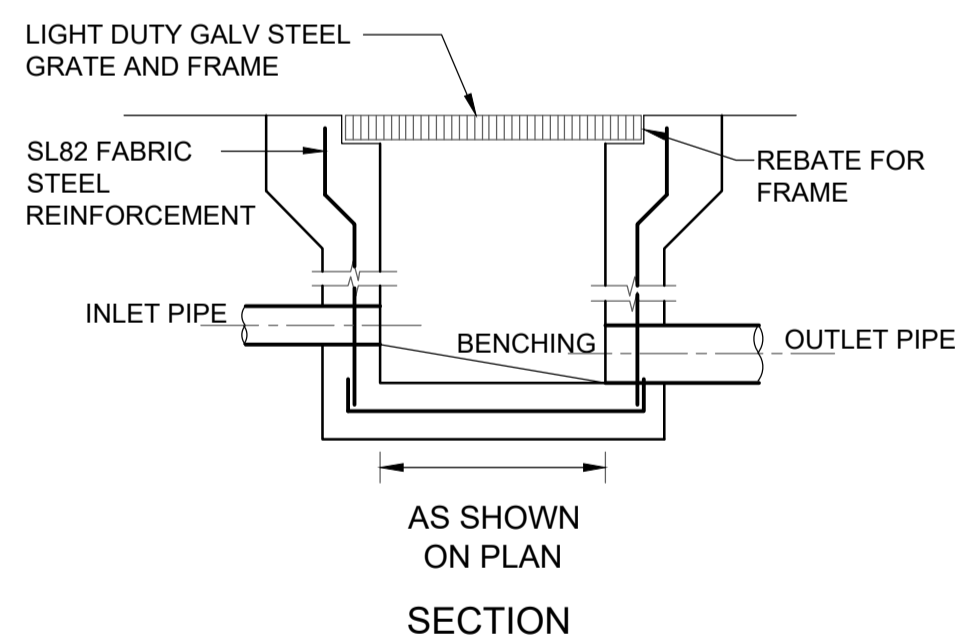
**STORMWATER PIT WITH  
OCEANGUARD BASKET - DETAIL A**  
NOT TO SCALE



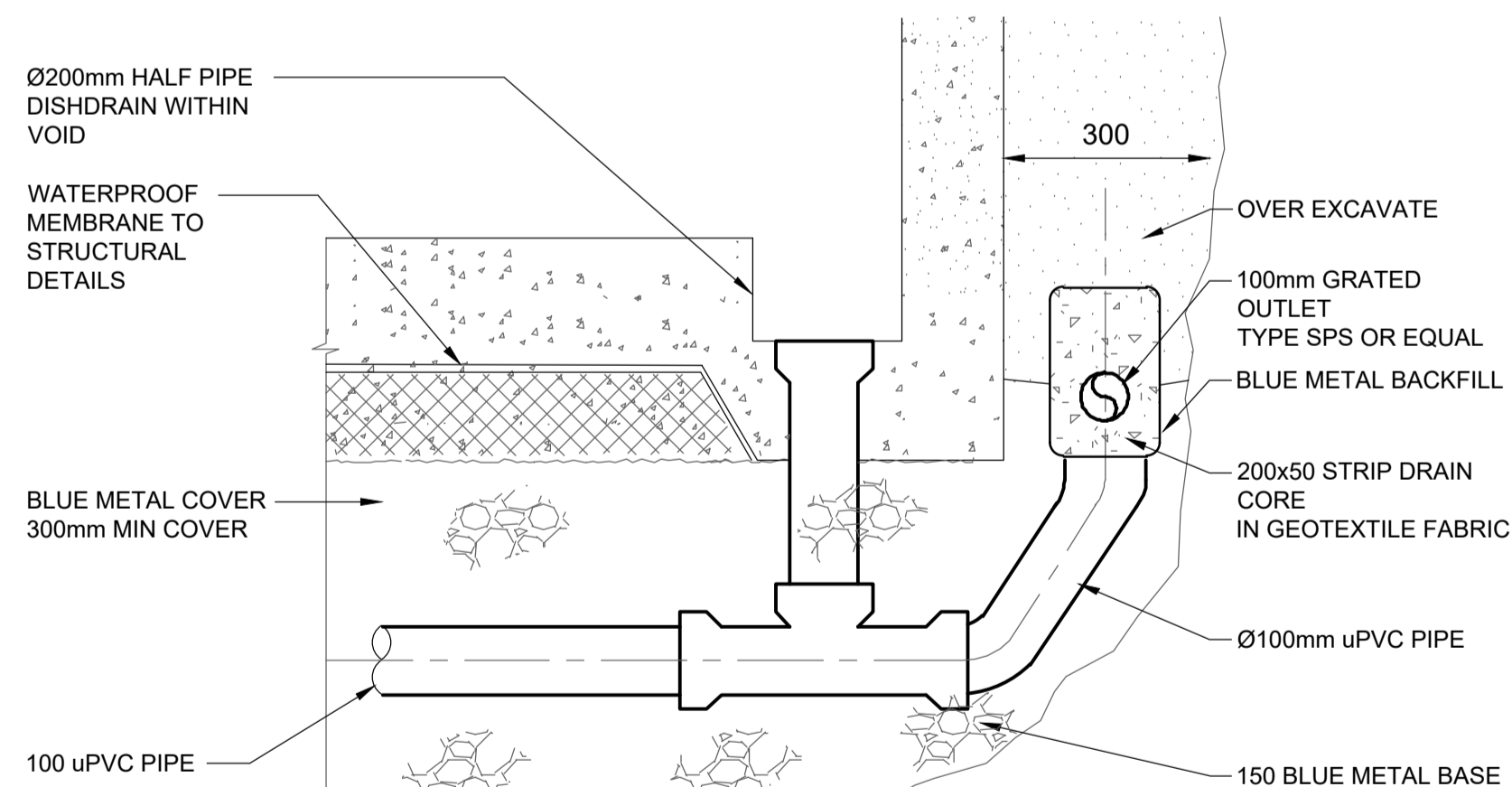
**PLAN WITHOUT GRATE**



**STORMWATER PIT WITH  
OCEANGUARD BASKET - DETAIL B**  
NOT TO SCALE



**STORMWATER PIT**  
SCALE 1:20

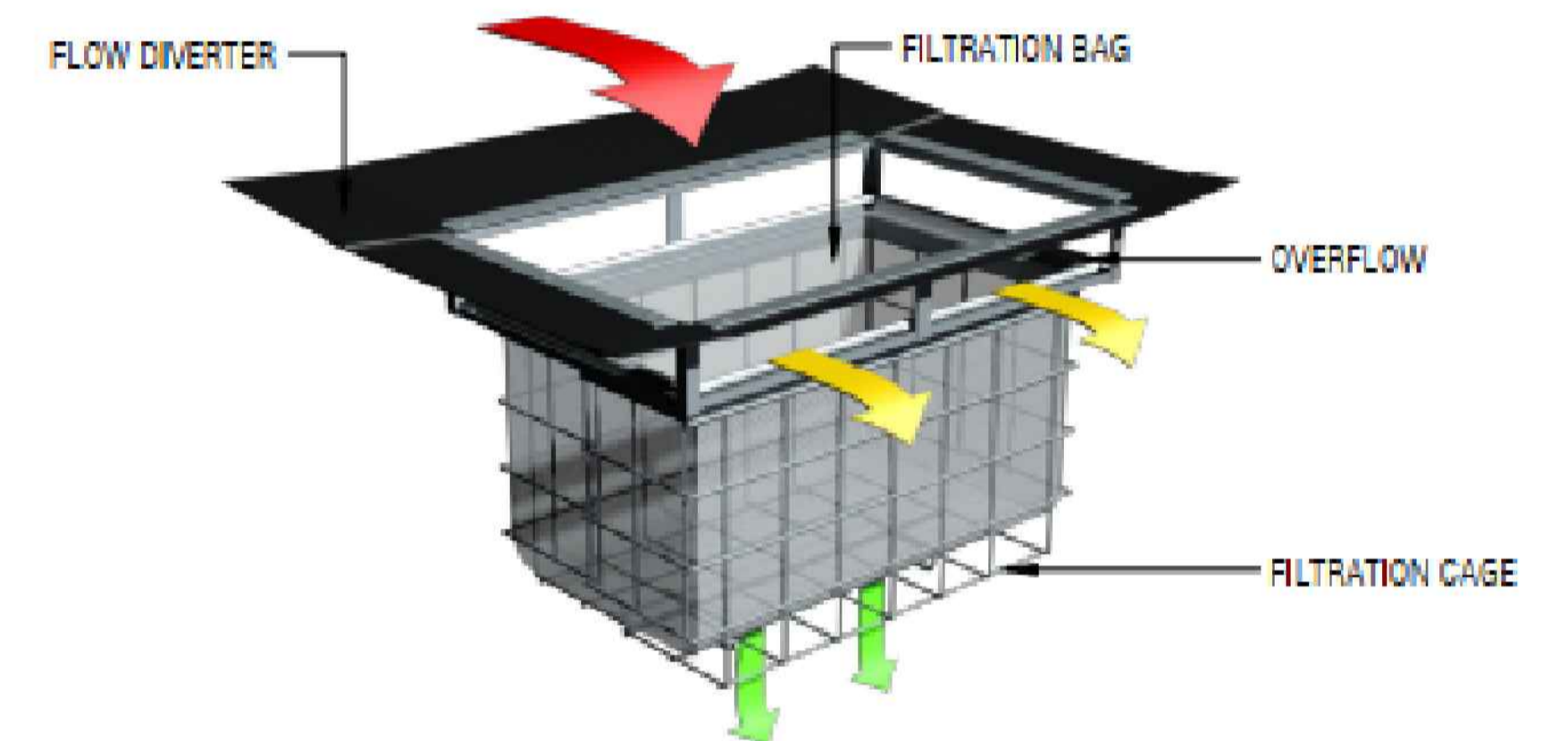


**PERIMETER WALL  
SUBSOIL DRAINAGE**  
SCALE 1:10

PLAN ID	MAXIMUM PIT PLAN DIMENSIONS
S	450mm x 450mm
M	600mm x 600mm
L	900mm x 900mm
XL	1200mm x 1200mm

DEPTH ID	BAG DEPTH	OVERALL DEPTH
1	170	270
2	300	450
3	600	700

PLAN ID		DEPTH ID		
		1	2	3
S		■		
M		■	■	
L		■	■	■
XL		■	■	■

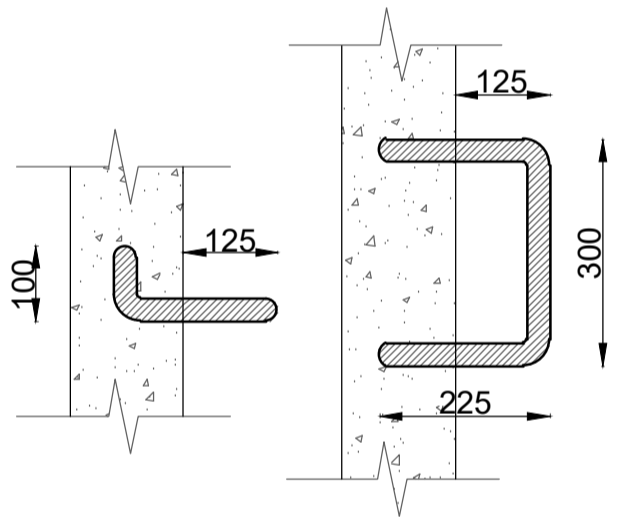
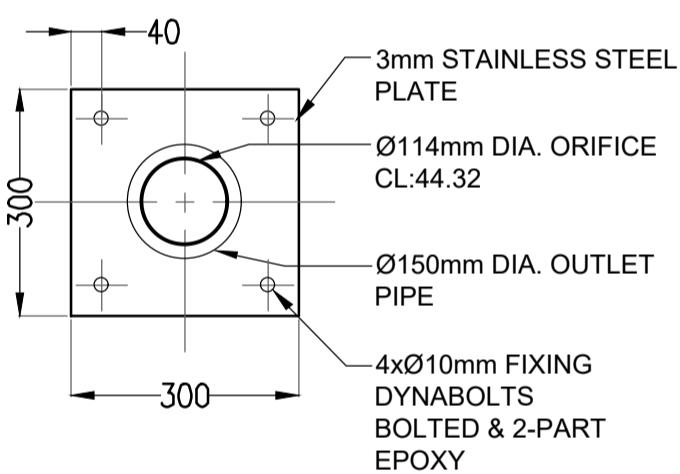
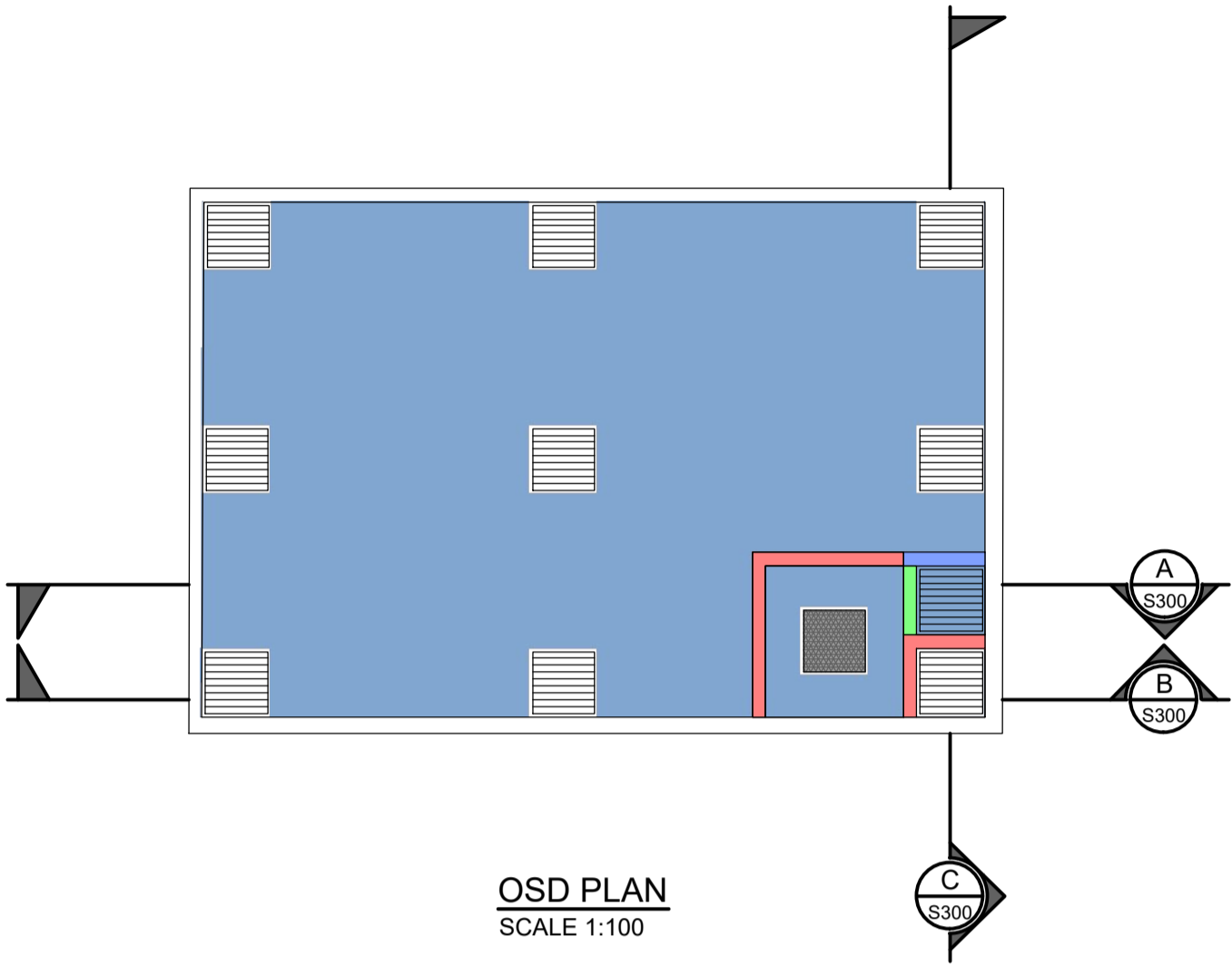


#### GENERAL NOTES

1. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
2. CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
3. OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
4. DRAWINGS NOT TO SCALE.

On-Site Detention Calculation

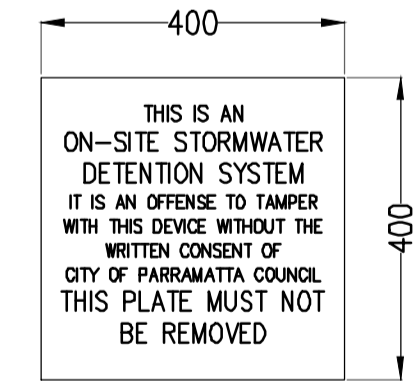
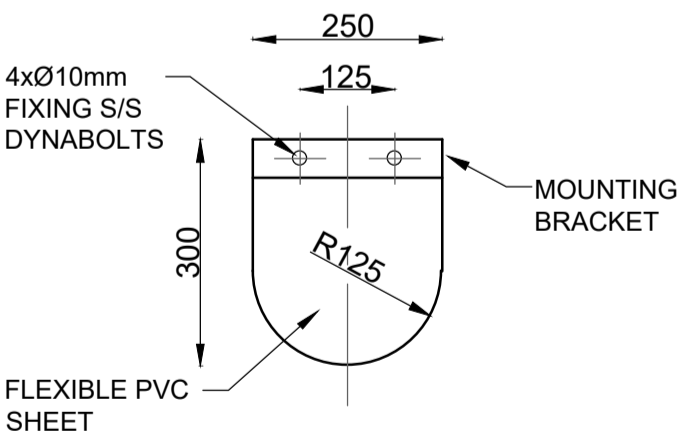
Project Number:	20220268-DA-SW-DWG-02	
Site Address:	7 Yates Avenue Dundas Valley 2117	
Designer:	Han Jiang	
Phone:	0432 225 833	
OSD Location:	Subiaco Creek Catchment	
SSR: 330	UNIT 1	
PSD: 130		
Site Area (ha):	0.128	
Basic Storage Volume (m³):	42.22	
Basic Discharge (L/s):	16.63	
Area Bypassing OSD (m²):	0.00	0.00%
Area of Site to Storage (ha):	0.128	
Percentage of Site (%):	100.00	
Storage per ha of Contributing Area (m³/ha)	330.00	
Volume/PSD Adjustment	130.10	
PSD for site (L/s):	16.64	
Maximum Head to Orifice Centre (m):	0.350	
Calculated Orifice Diameter (m):	0.114	
Maximum discharge (L/s):	16.64	
Head for high early discharge (m):	0.250	
High Early Discharge (L/s):	14.07	84.52%
Mean Discharge (L/s):	15.36	
Average Discharge per Hectare (L/s/ha):	120.03	
Final Site Storage Ratio	351.67	
Site Storage Volume (m³):	44.99	
Rainwater Tank Offset Volume (m³):	0	
Final Storage Volume Required (m³):	44.99	
Volume Provided (m³):	53.04	118%



ORIFICE PLATE  
SCALE 1:20

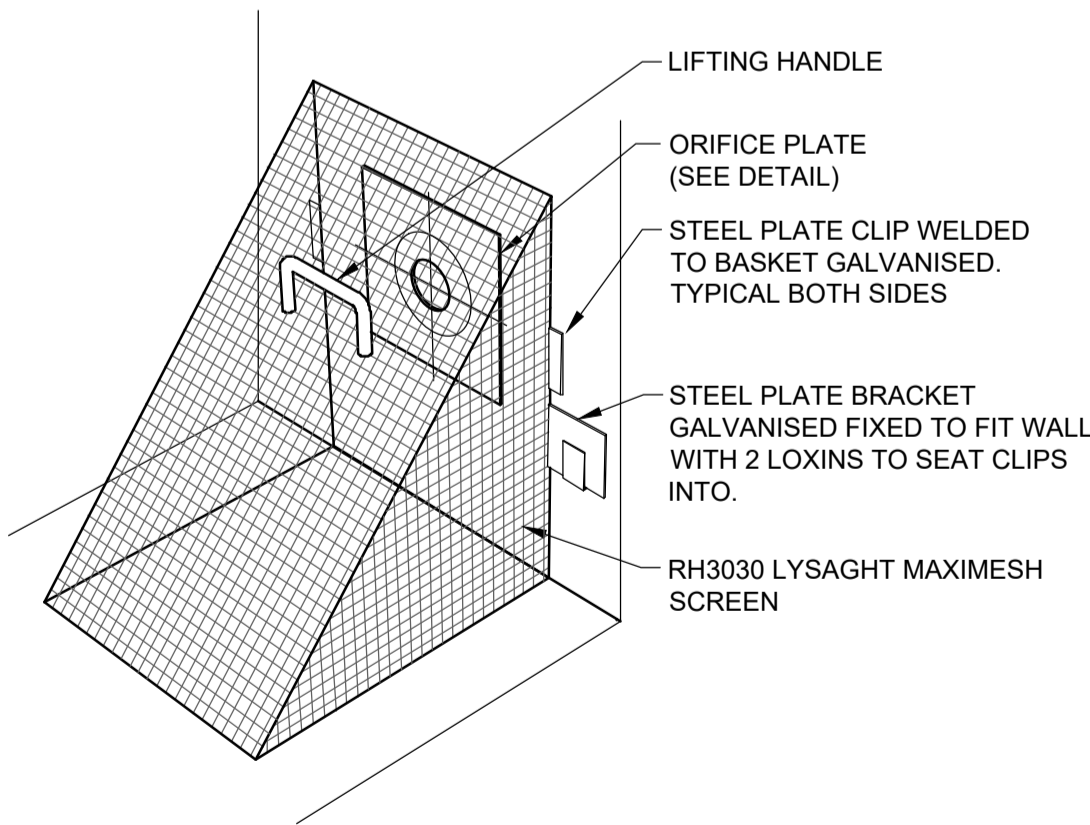
CONFINED SPACE SIGN  
SCALE 1:10

STEP IRON  
SCALE 1:10

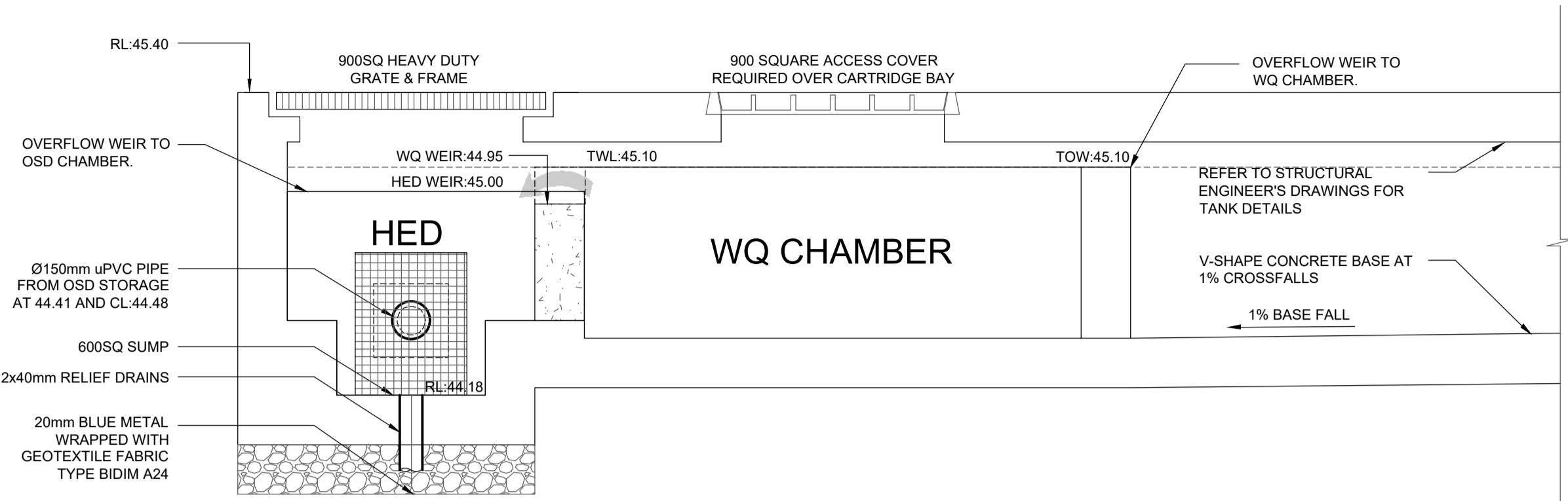


FLAP VALVE  
SCALE 1:10

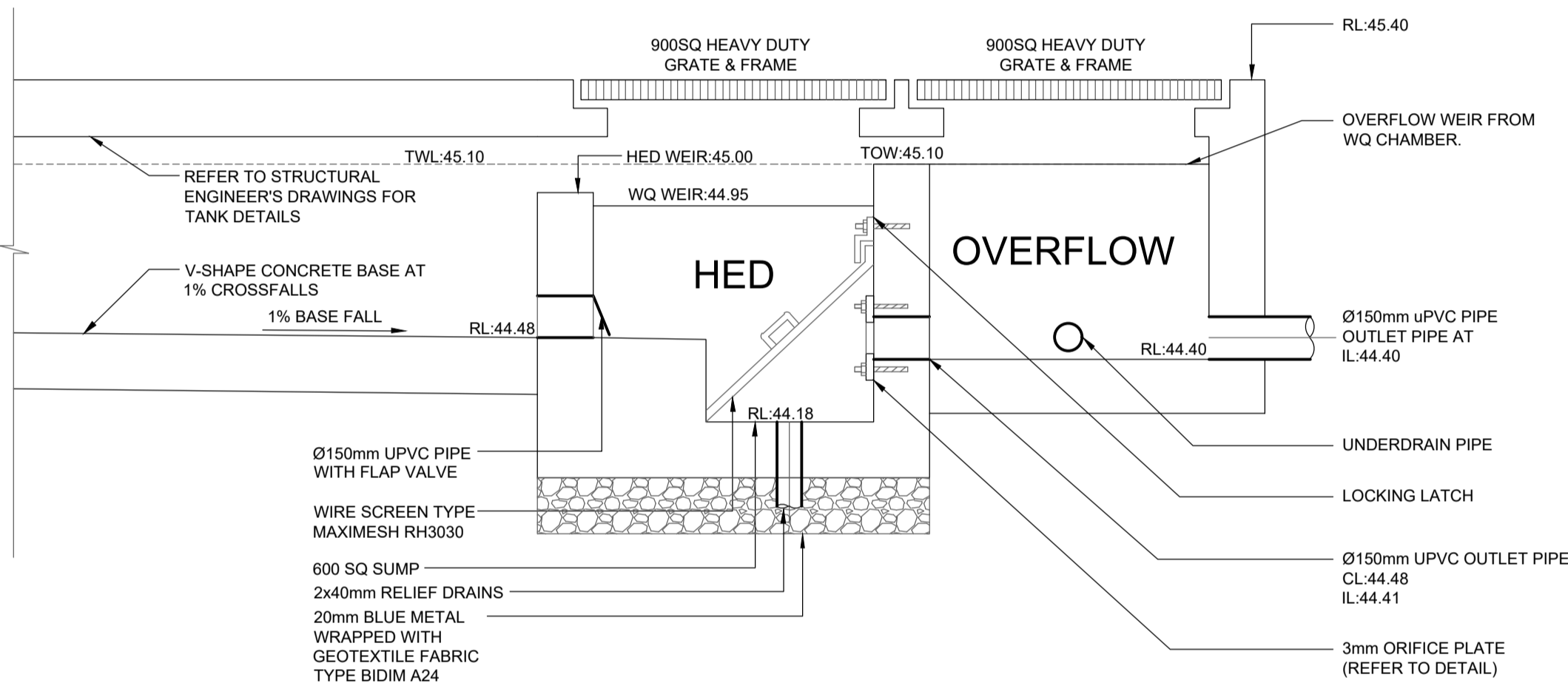
OSD SIGN  
SCALE 1:10



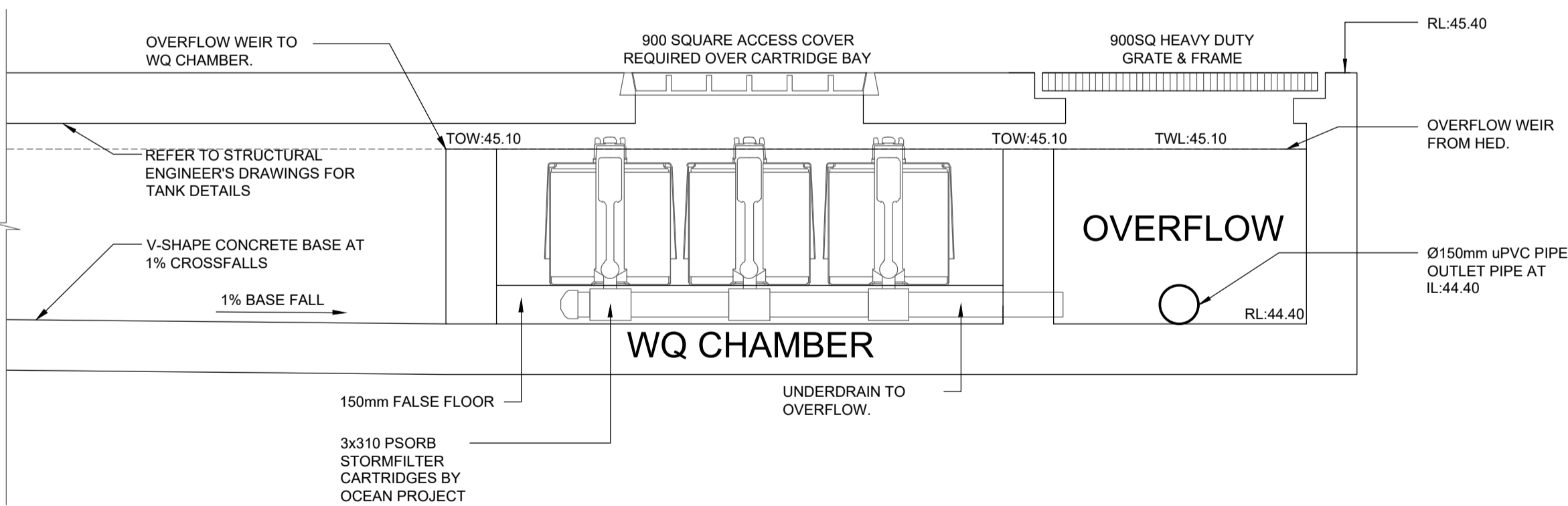
DEBRIS SCREEN  
NOT TO SCALE



OSD SECTION A  
SCALE 1:20

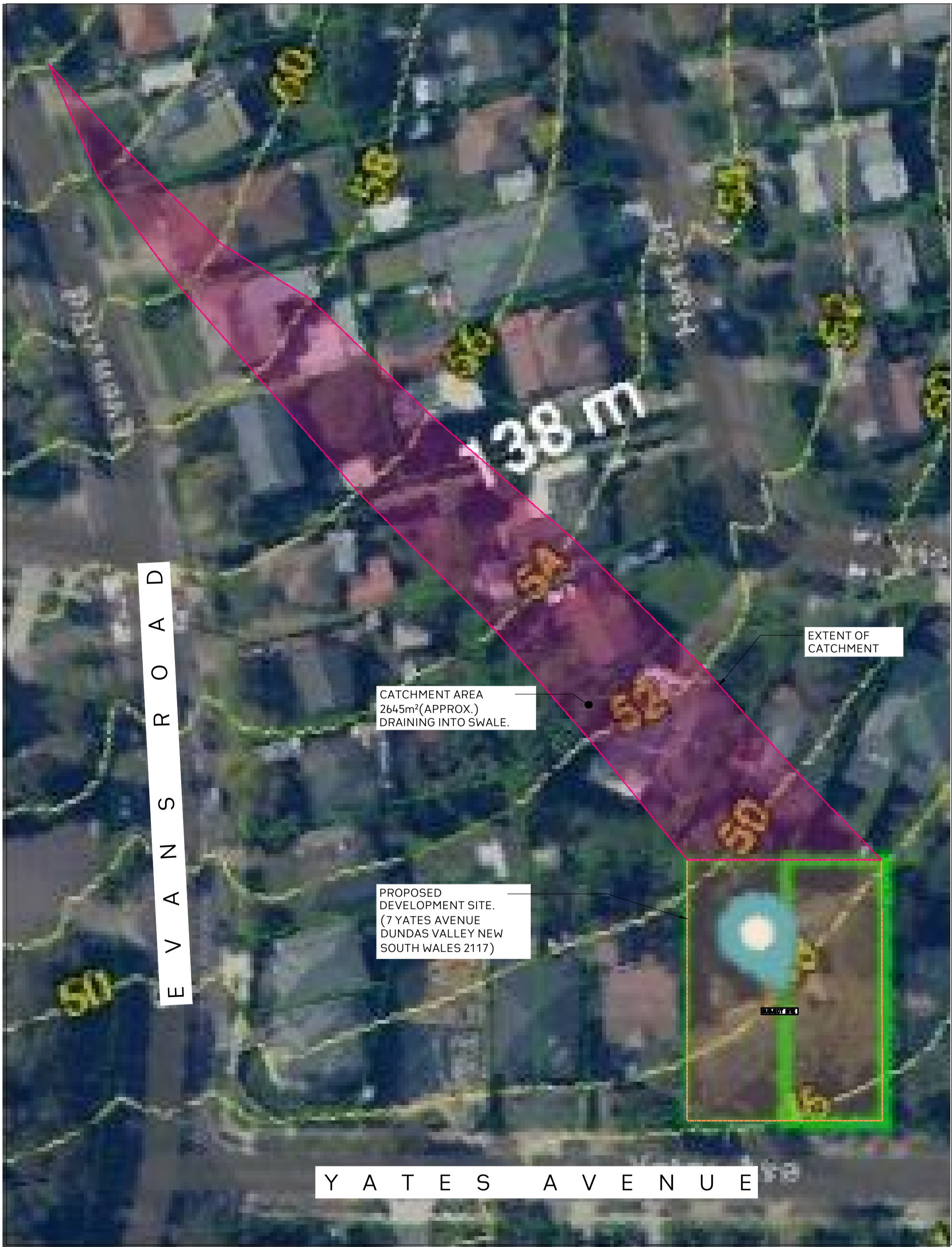


OSD SECTION B  
SCALE 1:20

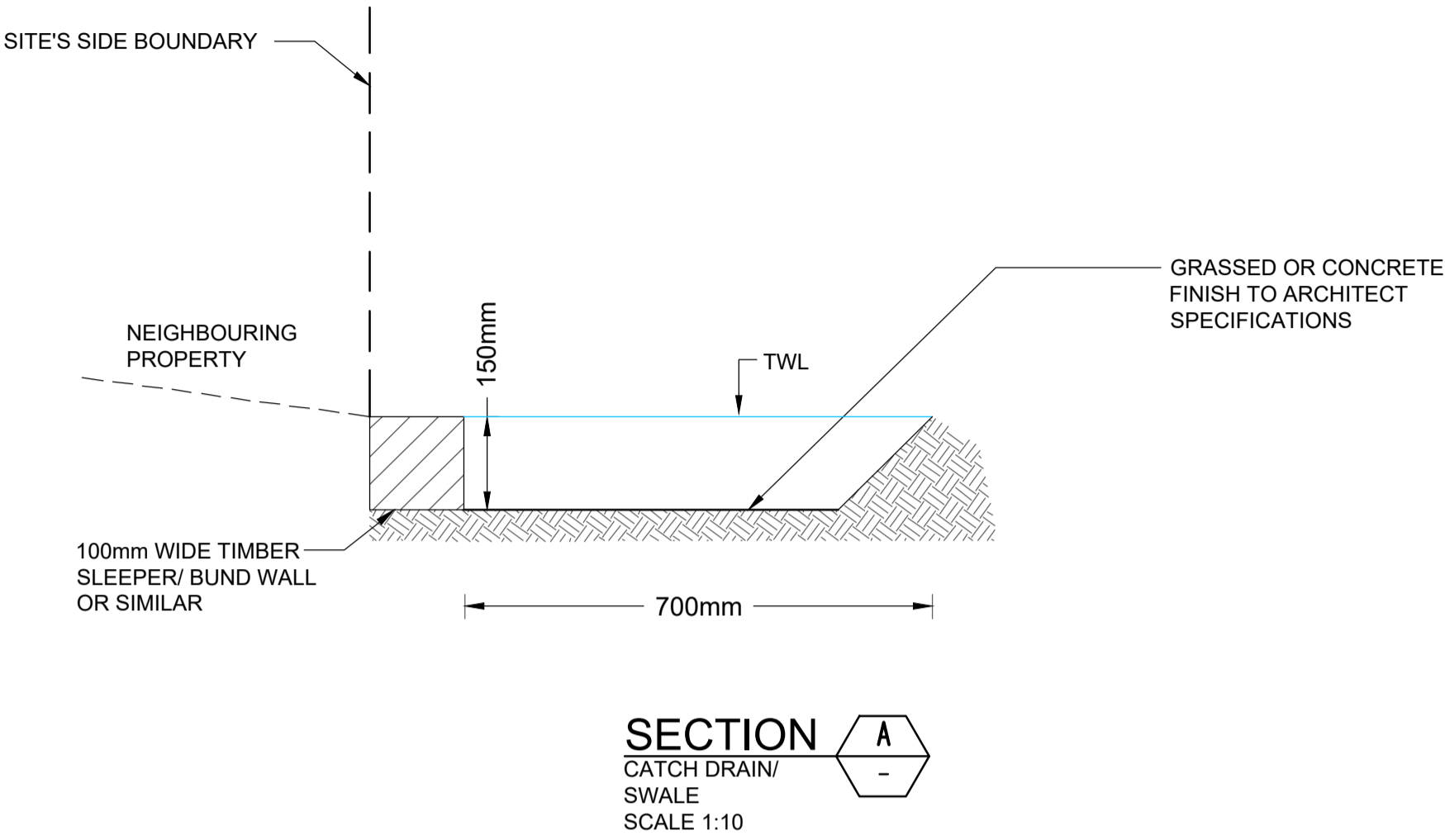


OSD SECTION C  
SCALE 1:20

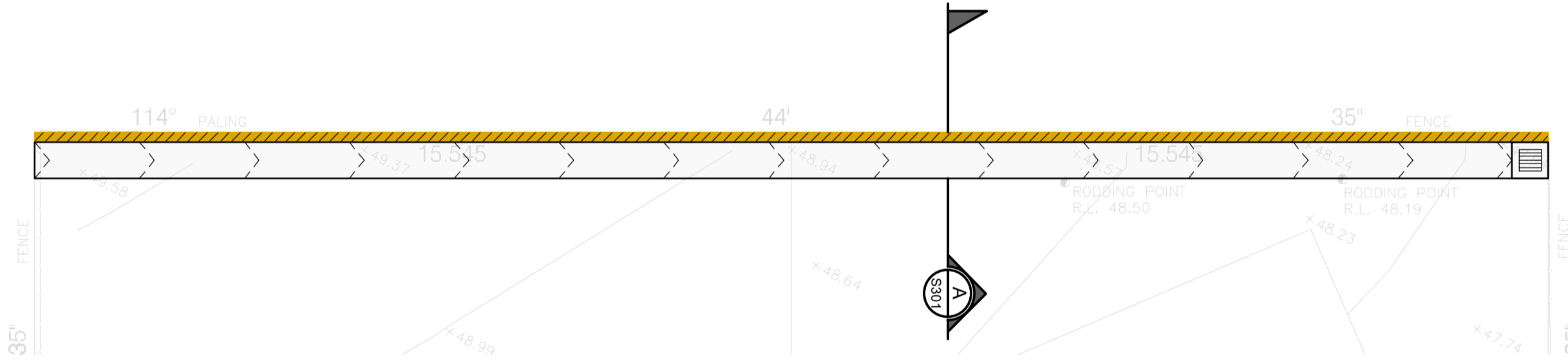
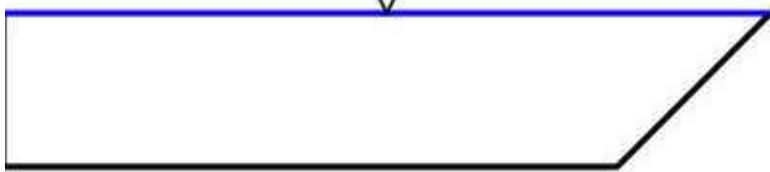
	Project No. 20220268-DA-SW-DWG-02	Drawing No. S301	<table><tr><th>Rev.</th><th>Description</th><th>Design</th><th>Date</th></tr><tr><td>02</td><td>Issued For DA</td><td>HJ</td><td>17-08-2022</td></tr><tr><td>01</td><td>Issued For DA</td><td>HJ</td><td>22-07-2022</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	Rev.	Description	Design	Date	02	Issued For DA	HJ	17-08-2022	01	Issued For DA	HJ	22-07-2022																		Joe Madrajat	Project Proposed Stormwater Development	Drawn	JP	Designed	HJ	<table><tr><th>Discipline</th><th>Consultant</th><th>Reference</th><th>Revision</th><th>Date</th></tr><tr><td>Architect</td><td>Baini Design</td><td>----</td><td>2</td><td>31.05.2022</td></tr><tr><td>Surveyor</td><td>Unknown Surveyor</td><td>0621</td><td>A</td><td>07.03.2021</td></tr><tr><td>Landscape</td><td>Baini Design</td><td>----</td><td>----</td><td>18.08.2022</td></tr><tr><td>Geotechnical</td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>Structural</td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>Hydraulic/Fire</td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>Mechanical</td><td> </td><td> </td><td> </td><td> </td></tr></table>	Discipline	Consultant	Reference	Revision	Date	Architect	Baini Design	----	2	31.05.2022	Surveyor	Unknown Surveyor	0621	A	07.03.2021	Landscape	Baini Design	----	----	18.08.2022	Geotechnical					Structural					Hydraulic/Fire					Mechanical				
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CATCHMENT PLAN  
SCALE 1:500



Inputs				Results			
Flow area				0.1012	m²		X
Wetted perimeter				0.9621	m		X
Hydraulic radius				0.1052	m		X
Velocity, v				1.6614	m/s		X
Flow, Q (See notes)				168.2154	l/s		X
Velocity head, h <sub>v</sub>				0.1407	m		X
Top width, T				0.7500	m		X
Froude number, F				1.44			X
Average shear stress (tractive force), tau				51.5967	N/m²		X
n for design rock size per Strickler				0.0323			X
n for design rock size per Blodgett				0.0779			X
n for design rock size per Bathurst				0.0360			X
Blodgett vs. Bathurst				Bathurst			X
Required bottom angular rock size, D50 (Isbash & MC) ?				0.1048	m		X
Required side slope 1 angular rock size, D50 (Isbash & MC) ?				1711178871979705.2500	m		X
Required side slope 2 angular rock size, D50 (Isbash & MC) ?				0.1482	m		X
Required angular rock size, D50 (Maynard, Ruff, and Abt 1989)				0.1564	m		X
Required angular rock size, D50 (Searcy 1967)				0.0607	m		X



SWALE PLAN  
SCALE 1:100

## Swale Calculations

THIS SITE CURRENTLY ACCEPTS LOCAL OVERLAND FLOW FROM UPSTREAM PROPERTIES.

TOTAL CONTRIBUTING CATCHMENT AREA = 2645m²

USING RATIONAL METHOD,  $Q = CIA/3600$

WHERE;

$C = 0.95$  (ASSUMING 70% IMPERVIOUS - CONSERVATIVE)  
 $I = 239\text{mm/hr}$  (100yr ARI, 5min DURATION)  
 $A = 2645\text{m}^2$

THEREFORE;

$Q = 166.82\text{L/s}$  (100yr)

SWALE DIMENSIONS

USING;

$W = 0.8\text{m}$   
 $D = 0.11\text{m}$   
 $n = 0.030$  (CONSERVATIVE)  
 $S = 0.01\text{m/m}$  (1% SLOPE)  
 $Q = 57.27\text{L/s}$ , THEREFORE O.K.

SWALE NOTES:

SWALE'S HAVE BEEN DESIGNED WITH DIMENSIONS REQUIRED FOR RECTANGULAR SECTION.

CONSTRUCTION OF SWALE TO INCORPORATE BATTERS AT MAXIMUM SLOPE 1:4 (INSTEAD OF BUND WALL, WHERE ACHIEVABLE) TO INCREASE SWALE CAPACITY AND FOR A MORE CONSERVATIVE AND AESTHETIC DESIGN.

## Overland Flow Notes

THE SITE SLOPES FROM NORTH TO SOUTH.

POSSIBLE OVERLAND FLOW MAY ENTER THE SITE FROM NORTHERN SIDE. THEREFORE SWALE HAS BEEN PROPOSED AS PER COUNCIL'S RECOMMENDATION.

1% AEP STORM EVENT HAS BEEN CONSIDERED ESTIMATING GENERATED OVERLAND FLOW.

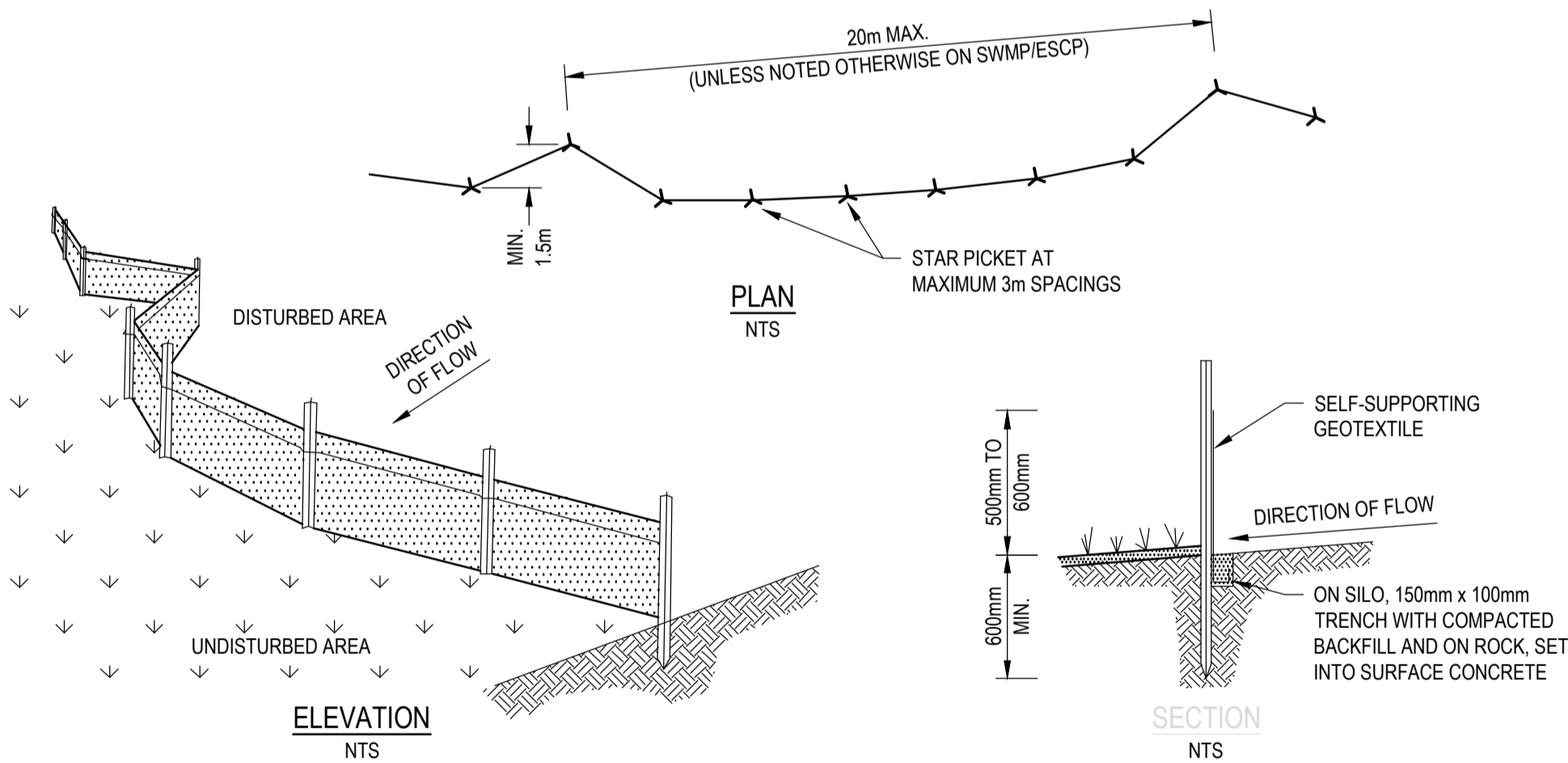
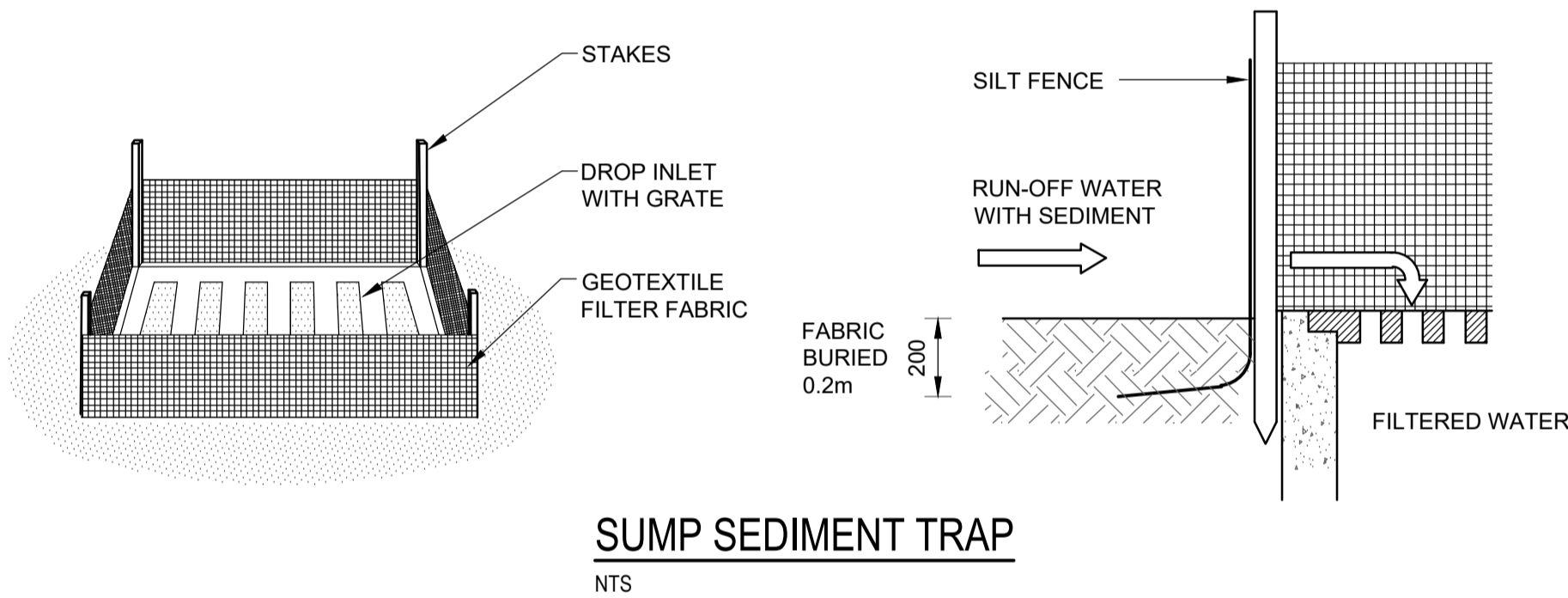
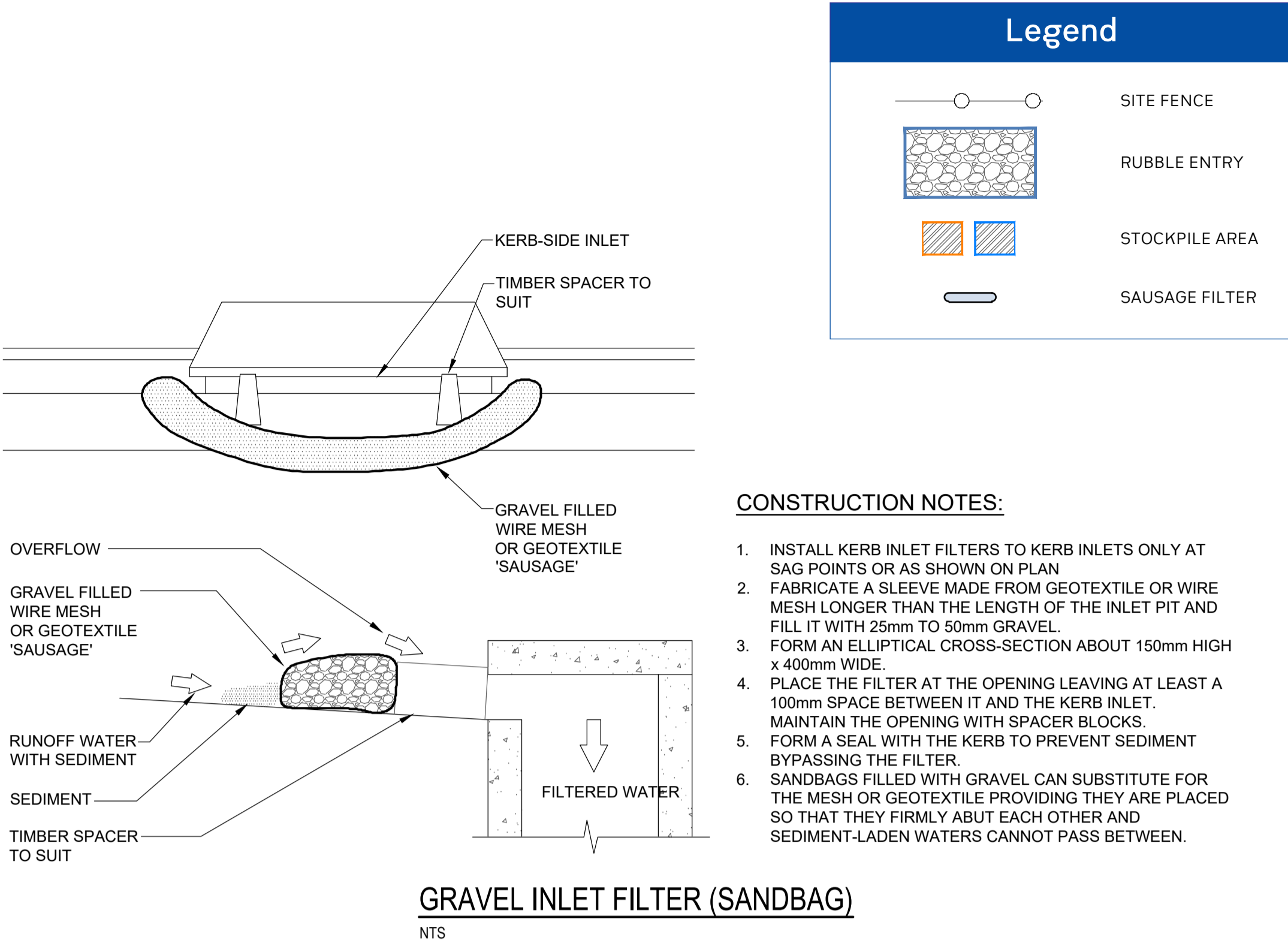
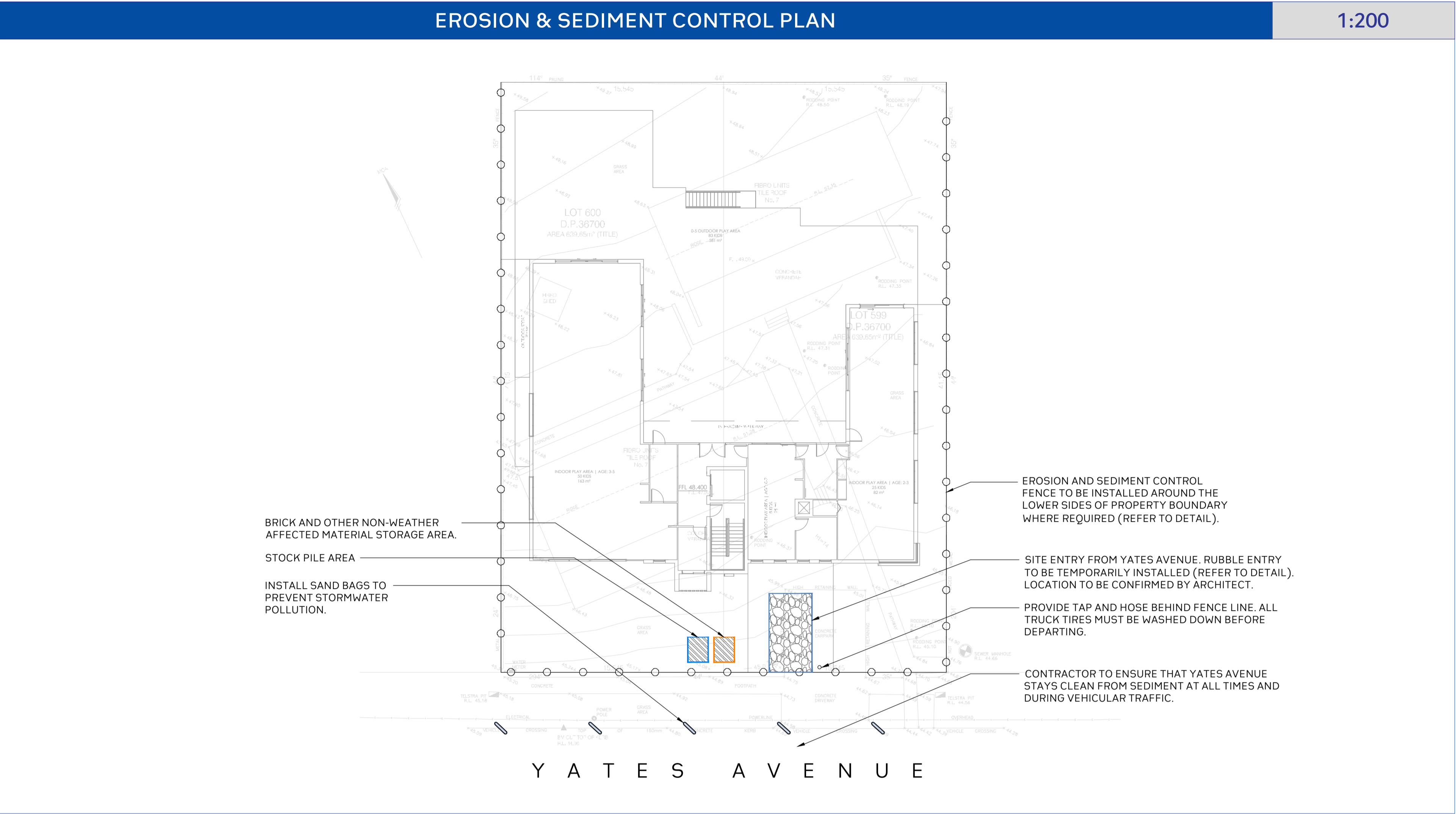
PROPOSED SWALE IS TO ENSURE OVERLAND FLOW DOES NOT ENTER ON SITE DETENTION SYSTEM AND DOES NOT IMPEDE ON ADJOINING PROPERTIES.

	Project No. 20220268-DA-SW-DWG-02	Drawing No. S302	<table><tr><th>Rev.</th><th>Description</th><th>Design</th><th>Date</th></tr><tr><td>02</td><td>Issued For DA</td><td>HJ</td><td>17-08-2022</td></tr><tr><td>01</td><td>Issued For DA</td><td>HJ</td><td>22-07-2022</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	Rev.	Description	Design	Date	02	Issued For DA	HJ	17-08-2022	01	Issued For DA	HJ	22-07-2022																					  Joe Madrajat        Architect	Project Proposed Stormwater Development.  Application Development Application  Address 7 Yates Avenue Dundas Valley 2117  LGA CITY OF PARRAMATTA Council	Drawn	JP	Designed	HJ	<table><tr><th>Discipline</th><th>Consultant</th><th>Reference</th><th>Revision</th><th>Date</th></tr><tr><td>Architect</td><td>Baini Design</td><td>----</td><td>2</td><td>31.05.2022</td></tr><tr><td>Surveyor</td><td>Unknown Surveyor</td><td>0621</td><td>A</td><td>07.03.2021</td></tr><tr><td>Landscape</td><td>Baini Design</td><td>----</td><td>----</td><td>18.08.2022</td></tr><tr><td>Geotechnical</td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>Structural</td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>Hydraulic/Fire</td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>Mechanical</td><td> </td><td> </td><td> </td><td> </td></tr></table>	Discipline	Consultant	Reference	Revision	Date	Architect	Baini Design	----	2	31.05.2022	Surveyor	Unknown Surveyor	0621	A	07.03.2021	Landscape	Baini Design	----	----	18.08.2022	Geotechnical					Structural					Hydraulic/Fire					Mechanical				
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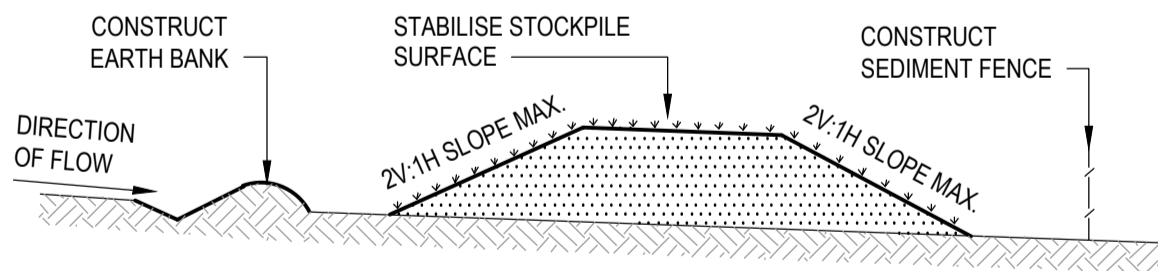


#### GENERAL CONSTRUCTION NOTES

- CONSTRUCTION SEDIMENT FENCES AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE
- DIVE 1.5m LONG STAR PICKETS INTO GROUND, 3m APART
- DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED
- BACKFILL TRENCH OVER BASE OF FABRIC
- FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP

#### SEDIMENT FENCE

NTS

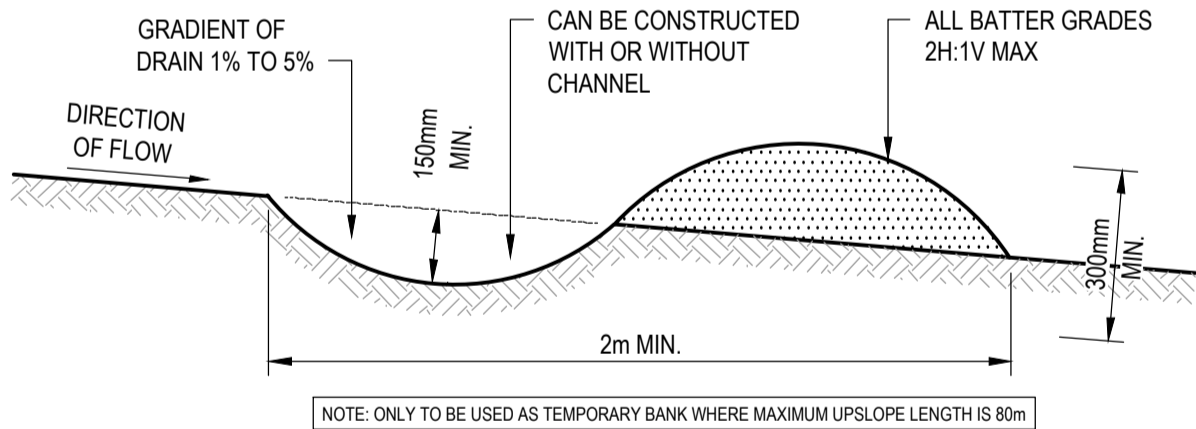


#### GENERAL CONSTRUCTION NOTES

- LOCATE STOCKPILE AT LEAST 5m FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS
- CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND
- WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT
- REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP
- CONSTRUCT EARTH BANK ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE 1 TO 2m DOWNSLOPE OF STOCKPILE

#### STOCKPILES

NTS

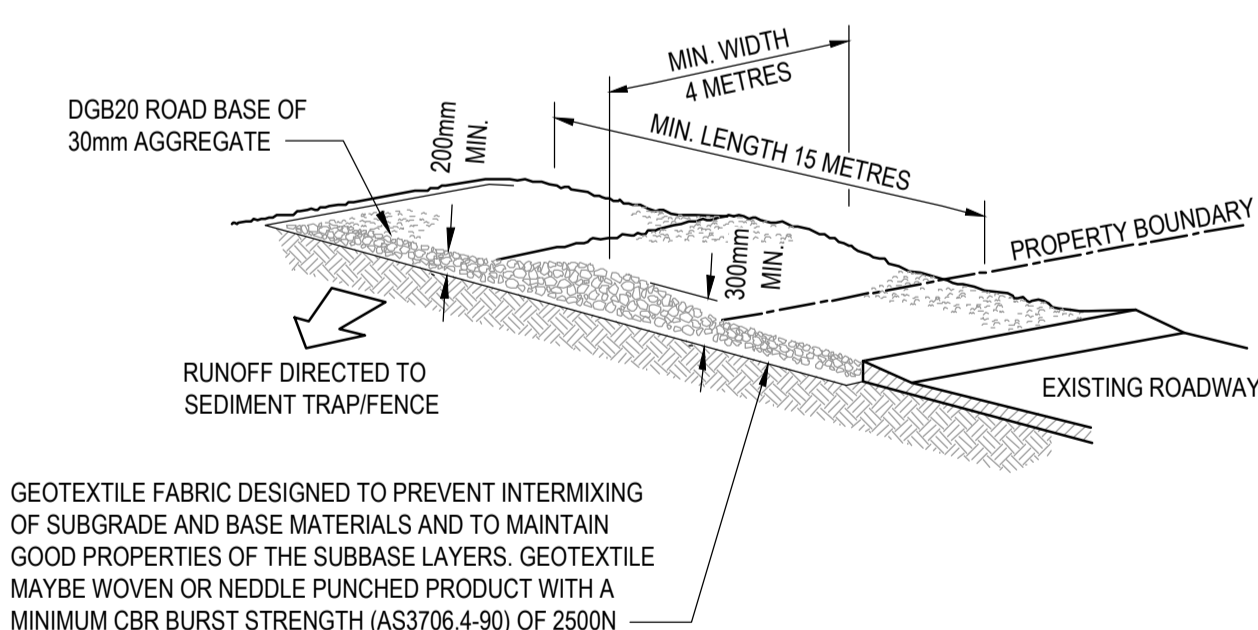


#### GENERAL CONSTRUCTION NOTES

- CONSTRUCT WITH GRADIENT OF 1% TO 5%
- AVOID REMOVING TREES AND SHRUBS IF POSSIBLE
- DRAINS TO BE CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED
- EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE
- PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION
- ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR
- DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED
- COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS
- EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDED NORMAL FLOW

#### EARTH BANK (LOW FLOW)

NTS



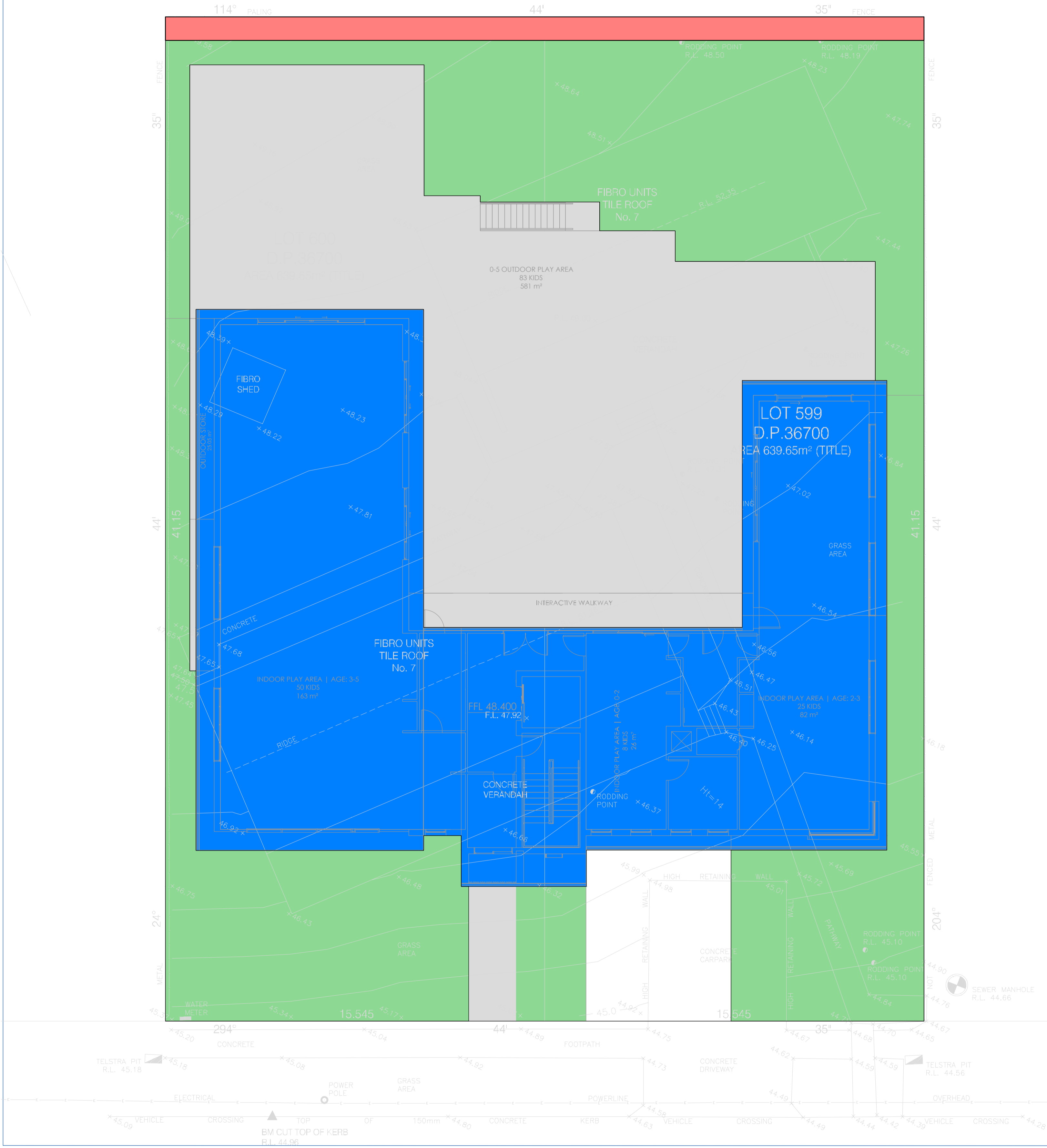
#### STABILISED SITE ACCESS CONSTRUCTION NOTES:

- STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- COVER THE AREA WITH NEEDLE - PUNCHED GEOTEXTILE.
- CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
- ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO SEDIMENT FENCE.

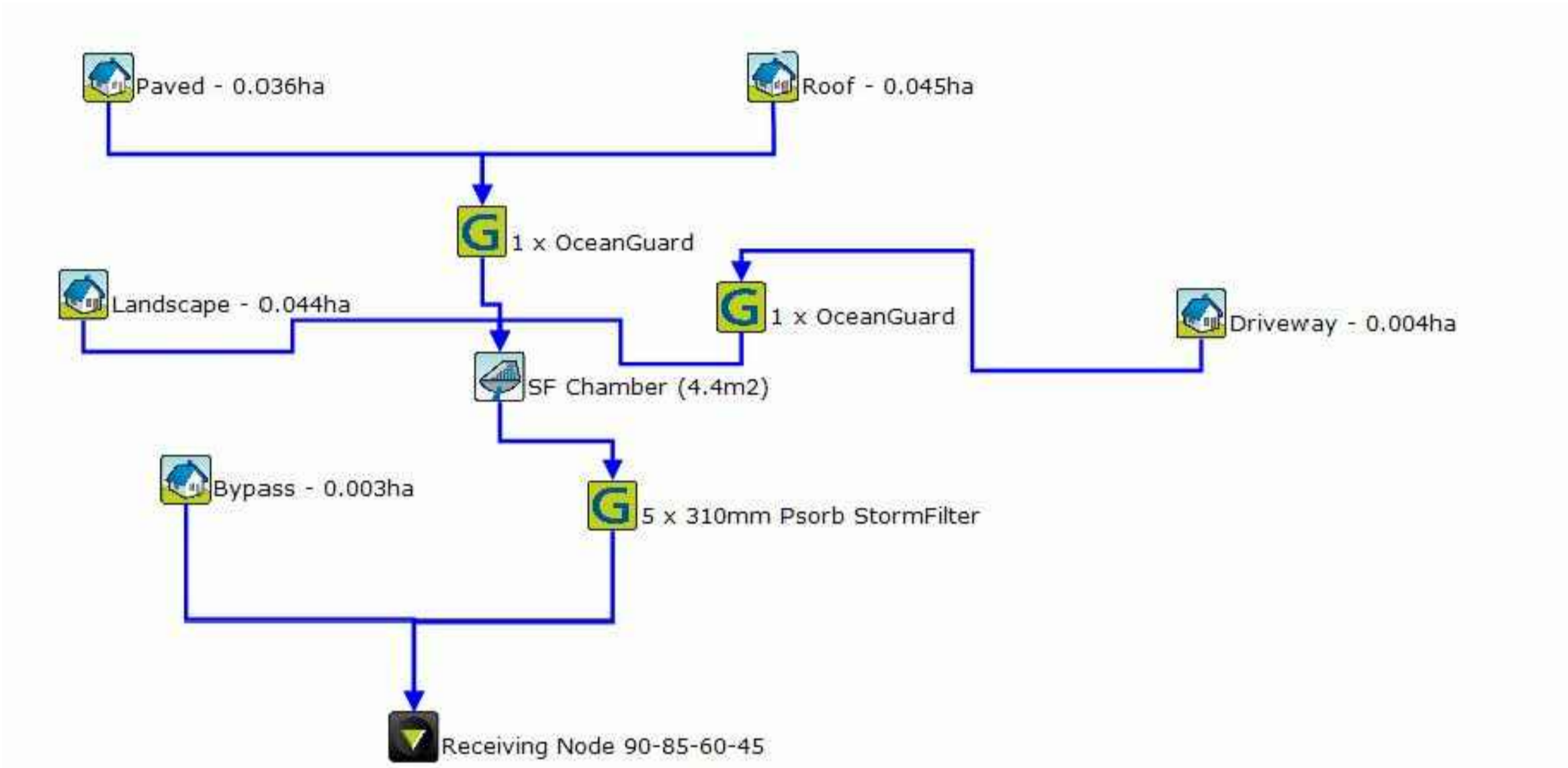
#### STABILISED SITE ACCESS

NTS

	Project No. 20220268-DA-SW-DWG-02	Drawing No. S400	Rev.	Description	Design	Date		Joe Madrajat	Project Proposed Stormwater Development.	Drawn	JP	Designed	HJ	Discipline	Consultant	Reference	Revision	Date	 E admin@deboke.com.au W deboke.com.au A 65 Blaxcell Street, Granville 2142  COPYRIGHT This drawing and the information shown hereon is the property of deboke engineering consultants and may not be used for any purposes than for which supplied.
	Title Erosion and Sediment Control Plan		02	Issued For DA	HJ	17-08-2022				Reviewed	AA	Date	17-08-2022	Architect	Baini Design	----	2	31.05.2022	
	Scale  SCALE 1:200 ON ORIGINAL SIZE		01	Issued For DA	HJ	22-07-2022				Approved	AA	Date	17-08-2022	Surveyor	Unknown Surveyor	0621	A	07.03.2021	
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									Address 7 Yates Avenue Dundas Valley 2117						Structural				
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															Mechanical				



PROPOSED SITE		
TERRAIN	AREA (m²)	PERCENTAGE (%)
PAVED AREA DRAINING TO BIO-RETENTION	355.210	27.765
DRIVEWAY AREA DRAINING TO BIO-RETENTION	41.657	3.256
ROOF AREA DRAINING TO BIO-RETENTION	446.887	34.931
LANDSCAPED AREA DRAINING TO BIO-RETENTION	406.063	31.740
AREA BYPASSING BIO-RETENTION	29.536	2.309
TOTAL	1279.35	100.000



(1) Scenario 1 : Treatment Train Effectiveness : Receiving Node 90-85-60-45

	Sources	Residual Load	% Reduction
Flow (ML/yr)	0.8341	0.8341	-0.0006492
Total Suspended Solids (kg/yr)	87.04	11.85	86.39
Total Phosphorus (kg/yr)	0.1898	0.04869	74.34
Total Nitrogen (kg/yr)	1.786	0.8261	53.73
Gross Pollutants (kg/yr)	18.47	0	100

Project No. 20220268-DA-SW-DWG-02  
Title Music Catchment Plan  
Drawing No. S500  
Scale 1:100 ON ORIGINAL SIZE

Rev.	Description	Design	Date
02	Issued For DA	HJ	17-08-2022
01	Issued For DA	HJ	22-07-2022

Joe Madrajat  
Architect

Client

Project Proposed Stormwater Development  
Application Development Application  
Address 7 Yates Avenue Dundas Valley 2117  
LGA CITY OF PARRAMATTA Council

Drawn	JP	Designed	HJ
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Andrew Arida  
B.E Civil/Structural  
MIEAust (NO: 5579488)  
Professional Engineer (PRE0000268)  
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MUSIC-link Report

Project Details		Company Details			
Project:	20220268_MM01	Company:	Deboke Engineering Consultants Pty Ltd		
Report Export Date:	08/09/2022	Contact:	Andrew Arida		
Catchment Name:	Receiving Node 90-85-60-45	Address:	17 William Street, Ryde NSW		
Catchment Area:	0.1279353ha	Phone:	0432 225 833		
Impervious Area*:	65.9516177317754%	Email:	andrew@deboke.com.au		
Rainfall Station:					
Modelling Time-step:	Six minutes				
Modelling Period:	01/01/88 - 31/12/1997 11:00:00 PM				
Mean Annual Rainfall:	899.874mm				
Evapotranspiration:	1170.579mm				
MUSICX Version:	1.1.0.11940 (5.0.3.11940)				
MUSIC-link data Version:	3.8				
Study Area:	City of Paramatta				
Scenario:	City of Paramatta - stormwater quality assessment				
* takes into account area from all source nodes that link to the chosen reporting node, excluding Import Data Nodes					
Treatment Train Effectiveness		Treatment Nodes		Source Nodes	
Node:	Reduction	Node Type	Number	Node Type	Number
Flow	-0.001%	Generic Treatment Nodes	3	Urban_Roof Nodes	1
TSS	86.389%	Sedimentation Basin Nodes	1	Urban_Mixed Nodes	1
TP	74.343%			Urban_SealedRoad Nodes	1
TN	53.733%			Urban_RevegetatedLand Nodes	2
GP	100%				
Comments					
The 'SF Chamber' node has been modified to represent the below ground filtration chamber. Default 'K' values have been manually adjusted to 1 in order to eliminate any performance from the actual tank, which would already be accounted for in the Filter Generic Node Target Elements/Transfer Functions. This must be adjusted for any proprietary filter using this method of modelling. Not doing this would represent a duplication of the chamber attenuation effect. (For any questions, please Contact Ocean Protect on 1300 354 722).					

NOTE: A successful self-validation check of your model does not constitute an approved model by City of Paramatta  
MUSIC-link now in MUSICX by eWater – leading software for modelling stormwater solutions



Passing Parameters					
Node Type	Node Name	Parameter	Min	Max	Actual
Generic	1 x OceanGuard	High Flow Bypass	None	99	0.02 m³/s
Generic	1 x OceanGuard	High Flow Bypass	None	99	0.02 m³/s
Generic	5 x 310mm Psorb StormFilter	High Flow Bypass	None	99	0.002 m³/s
Receiving	Receiving Node 90-85-60-45	Flow Reduction	None	None	-0.001 %
Receiving	Receiving Node 90-85-60-45	GP Reduction	90	None	100 %
Receiving	Receiving Node 90-85-60-45	TN Reduction	45	None	53.733 %
Receiving	Receiving Node 90-85-60-45	TP Reduction	60	None	74.343 %
Receiving	Receiving Node 90-85-60-45	TSS Reduction	85	None	86.389 %
Sedimentation	SF Chamber (4.4m2)	% Reuse Demand Met	None	None	0 %
Sedimentation	SF Chamber (4.4m2)	ExfiltrationRate	0	0	0 mm/h
Sedimentation	SF Chamber (4.4m2)	ExtendedDetentionDepth	0.25	1	0.39 m
Sedimentation	SF Chamber (4.4m2)	High Flow Bypass Out	None	None	0 ML/y
Urban_Mixed	Paved - 0.036ha	Impervious Area	None	None	0.036 ha
Urban_Mixed	Paved - 0.036ha	Pervious Area	None	None	0 ha
Urban_Mixed	Paved - 0.036ha	Total Area	None	None	0.036 ha
Urban_RevegetatedLand	Bypass - 0.003ha	Impervious Area	None	None	0 ha
Urban_RevegetatedLand	Bypass - 0.003ha	Pervious Area	None	None	0.003 ha
Urban_RevegetatedLand	Bypass - 0.003ha	Total Area	None	None	0.003 ha
Urban_RevegetatedLand	Landscape - 0.044ha	Impervious Area	None	None	0 ha
Urban_RevegetatedLand	Landscape - 0.044ha	Pervious Area	None	None	0.041 ha
Urban_RevegetatedLand	Landscape - 0.044ha	Total Area	None	None	0.041 ha
Urban_Roof	Roof - 0.045ha	Impervious Area	None	None	0.045 ha
Urban_Roof	Roof - 0.045ha	Pervious Area	None	None	0 ha
Urban_Roof	Roof - 0.045ha	Total Area	None	None	0.045 ha
Urban_SealedRoad	Driveway - 0.004ha	Impervious Area	None	None	0.004 ha
Urban_SealedRoad	Driveway - 0.004ha	Pervious Area	None	None	0 ha
Urban_SealedRoad	Driveway - 0.004ha	Total Area	None	None	0.004 ha
Only certain parameters are reported when they pass validation					

NOTE: A successful self-validation check of your model does not constitute an approved model by City of Paramatta  
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Failing Parameters					
Node Type	Node Name	Parameter	Min	Max	Actual
Sedimentation	SF Chamber (4.4m2)	Nitrogen Parameters.K	500	500	1 m/y
Sedimentation	SF Chamber (4.4m2)	Notional Detention Time	8	12	0.155 h
Sedimentation	SF Chamber (4.4m2)	Phosphorus Parameters.K	6000	6000	1 m/y
Sedimentation	SF Chamber (4.4m2)	Total Suspended Solids Parameters.K	8000	8000	1 m/y
Only certain parameters are reported when they pass validation					

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Project No.  
20220268-DA-SW-DWG-02  
Drawing No.  
S501  
Title  
Music Report

Scale  
0m 1 2 3 4 5  
SCALE 1:100 ON ORIGINAL SIZE

Rev.	Description	Design	Date
02	Issued For DA	HJ	17-08-2022
01	Issued For DA	HJ	22-07-2022

baini design

Architect

Joe Madrajat

Client

Project  
Proposed Stormwater Development  
  
Application  
Development Application  
  
Address  
7 Yates Avenue Dundas Valley 2117  
  
LGA  
CITY OF PARRAMATTA Council

Drawn	JP	Designed	HJ
Reviewed	AA	Date	17-08-2022
Approved	AA	Date	17-08-2022
Andrew Arida B.E Civil/Structural MIEAust (NO: 5579488) Professional Engineer (PRE0000268) Design Practitioner (DEP0000455)			

Discipline	Consultant	Reference	Revision	Date
Architect	Baini Design	----	2	31.05.2022.
Surveyor	Unknown Surveyor	0621	A	07.03.2021
Landscape	Baini Design	----	----	18.08.2022
Geotechnical				
Structural				
Hydraulic/Fire				
Mechanical				



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Project No.  
20220268-DA-SW-DWG-02

Drawing No.  
S600

Title  
Grading Plan

Scale  
0m 1 2 3 4 5  
SCALE 1:100 ON ORIGINAL SIZE

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## General Notes

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL AND RELEVANT AUTHORITIES SPECIFICATIONS AND DETAILS.

BULKING FACTORS ARE NOT CONSIDERED IN THE EARTHWORK MODEL AND VOLUME CALCULATION.

ALL DETAILED EARTHWORKS ARE NOT CONSIDERED SUCH AS FOOTINGS, SERVICE TRENCH AND RETAINING WALLS IN THE EARTHWORK MODEL AND VOLUME CALCULATION.

BULK EARTHWORKS PLAN ARE BASED ON THE FINISHED LEVELS, THE PAVEMENT / SLAB THICKNESS ARE NOT CONSIDERED.

APPROXIMATE BULK EARTHWORK VOLUMES AS FOLLOWS:

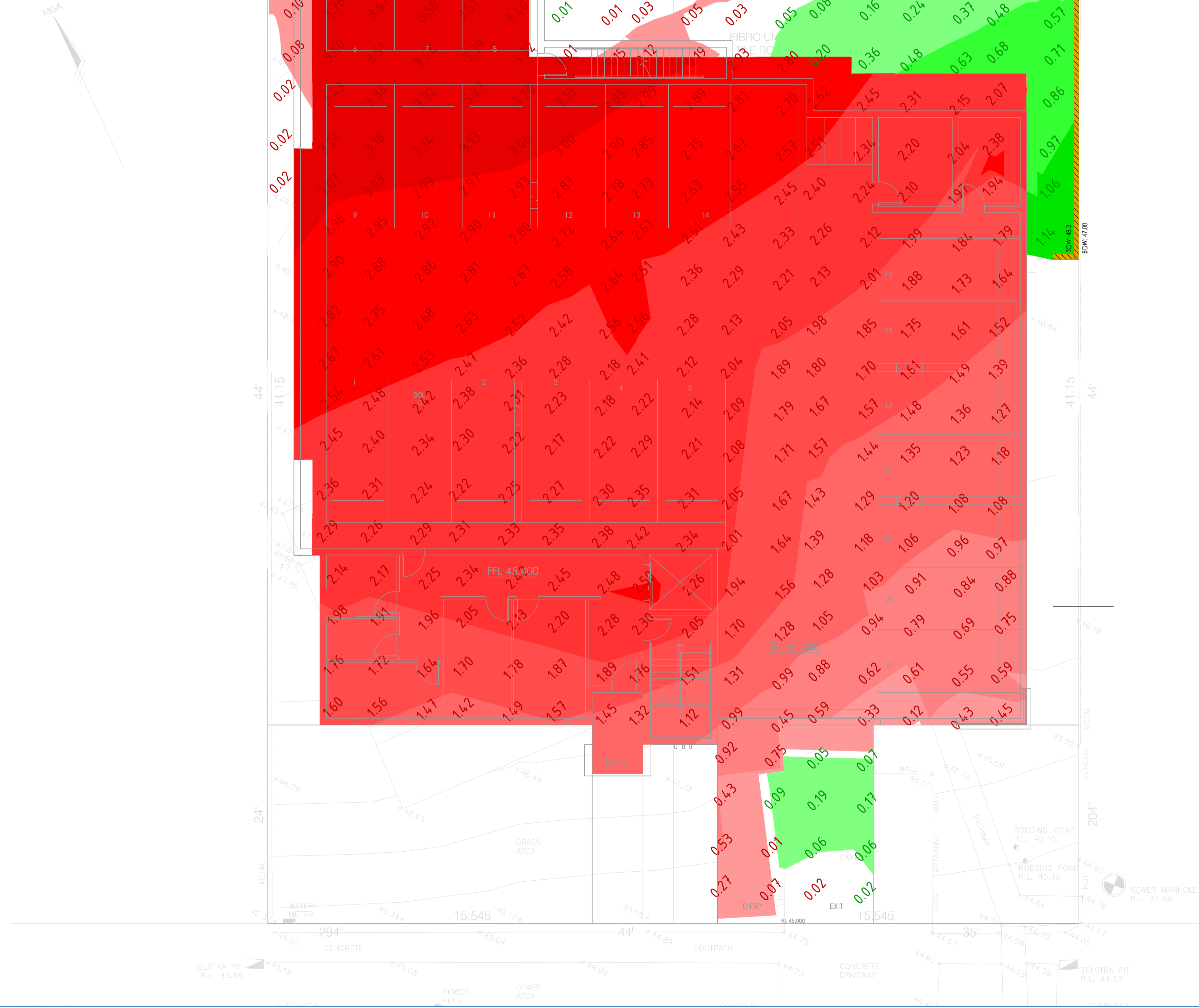
CUT :	1657.175m <sup>3</sup>
FILL :	35.335m <sup>3</sup>
NET (CUT) :	1621.84m <sup>3</sup>

BULKING FACTORS ARE NOT CONSIDERED IN THE EARTHWORK MODEL AND VOLUME CALCULATION.

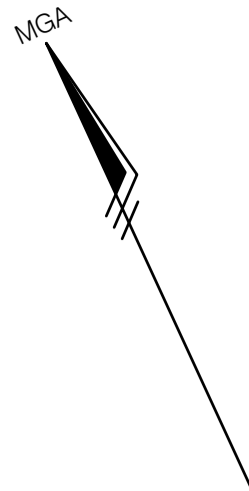
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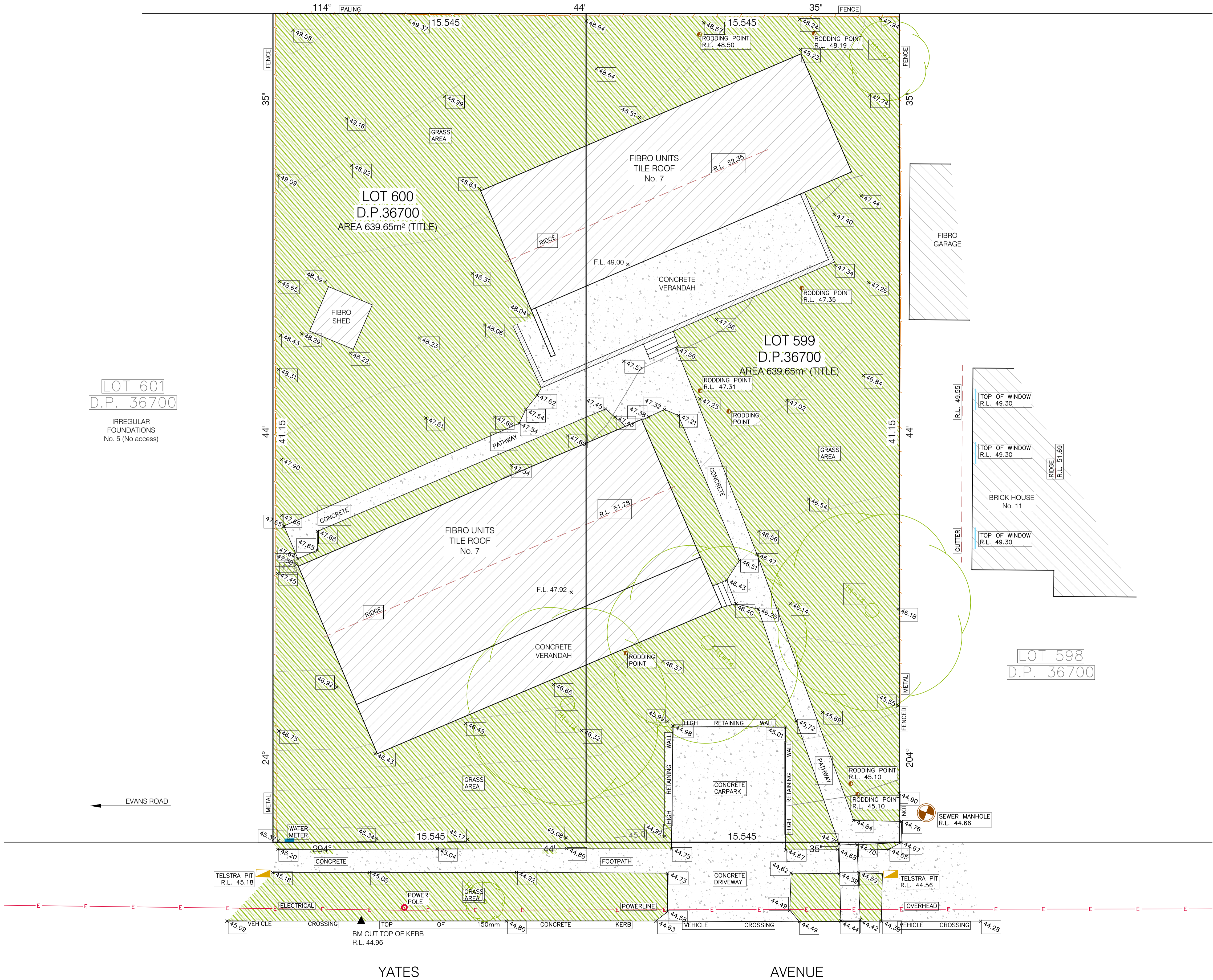
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)	2D Area (m²)	Volume (m³)
1	Blue	-99.000	-3.000	112.7	4.96
2		-3.000	-2.500	129.8	88.3
3		-2.500	-2.000	248.7	186.2
4		-2.000	-1.500	125.6	277.5
5		-1.500	-1.000	95.5	331.5
6		-1.000	-0.500	79.5	377.6
7		-0.500	-0.050	97.4	376.4
8		0.050	0.500	78.2	44.0
9		0.500	1.000	51.1	18.5
10		1.000	99.000	13.5	1.4



	<b>Project No.</b> 20220268-DA-SW-DWG-02	<b>Drawing No.</b> S601	<table border="1"> <thead> <tr> <th>Rev.</th> <th>Description</th> <th>Design</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>02</td> <td>Issued For DA</td> <td>HJ</td> <td>17-08-2022</td> </tr> <tr> <td>01</td> <td>Issued For DA</td> <td>HJ</td> <td>22-07-2022</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev.	Description	Design	Date	02	Issued For DA	HJ	17-08-2022	01	Issued For DA	HJ	22-07-2022														Joe Madrajat	Architect	Client	<b>Project</b> Proposed Stormwater Development	<b>Application</b> Development Application	<b>Address</b> 7 Yates Avenue Dundas Valley 2117	<b>LGA</b> CITY OF PARRAMATTA Council	<table border="1"> <thead> <tr> <th>Drawn</th> <th>JP</th> <th>Designed</th> <th>HJ</th> </tr> </thead> <tbody> <tr> <td>Reviewed</td> <td>AA</td> <td>Date</td> <td>17-08-2022</td> </tr> <tr> <td>Approved</td> <td>AA</td> <td>Date</td> <td>17-08-2022</td> </tr> </tbody> </table>	Drawn	JP	Designed	HJ	Reviewed	AA	Date	17-08-2022	Approved	AA	Date	17-08-2022	<table border="1"> <thead> <tr> <th>Discipline</th> <th>Consultant</th> <th>Reference</th> <th>Revision</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Architect</td> <td>Baini Design</td> <td>----</td> <td>2</td> <td>31.05.2022</td> </tr> <tr> <td>Surveyor</td> <td>Unknown Surveyor</td> <td>0621</td> <td>A</td> <td>07.03.2021</td> </tr> <tr> <td>Landscape</td> <td>Baini Design</td> <td>----</td> <td>----</td> <td>18.08.2022</td> </tr> <tr> <td>Geotechnical</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>Structural</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>Hydraulic/Fire</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>Mechanical</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Discipline	Consultant	Reference	Revision	Date	Architect	Baini Design	----	2	31.05.2022	Surveyor	Unknown Surveyor	0621	A	07.03.2021	Landscape	Baini Design	----	----	18.08.2022	Geotechnical					Structural					Hydraulic/Fire					Mechanical					 <p>           E admin@deboke.com.au            W deboke.com.au            A 65 Blaxcell Street, Granville 2142         </p> <p>           COPYRIGHT            This drawing and the information shown hereon is the property of deboke engineering consultants and may not be used for any purposes than for which supplied.         </p>
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CLIENT: YOUSSEF MOUSSA	PROJECT: No. 7 YATES AVENUE, DUNDAS VALLEY	LAND: LOT 599 & 600 PLAN No: DP 36700 TITLE: 599/36700 600/36700 LGA: PARRAMATTA PARISH: FIELD OF MARS COUNTY: CUMBERLAND		DATE OF SURVEY: 05.03.2021 DATE OF PLAN: 07.03.2021	SCALE: 1:100
					SHEET: 1 OF 1
				ISSUE: A	DATUM: A.H.D
					ORIGINAL SIZE: A1
JOB: 0621	PROJECT NAME: DETAIL & LEVEL SURVEY	SURVEYOR: CE	DRAWN BY: PL		



Notes:

No boundary survey has been undertaken. Bearings and dimensions are from title only and are subject to confirmation by boundary survey.

Bearings relate to MGA grid north taken from DP 1240211.

Dimensions and area(s) shown are approximate only and are subject to confirmation by boundary survey.

Services shown are indicative only. Positions are based on surface indicator(s) located during field survey. Confirmation of the exact position should be made to the relevant authorities prior to any excavation work. Other services may exist which are not shown.

Levels are based on Australian Height Datum (AHD) using SSM 168388 with a reduced level R.L. 46.80 Class D

Ridge, Eave, Gutter, Parapets, Windows & Doors heights have been obtained by an indirect method and are accurate to ± 0.05m.

Adjoining buildings have been plotted for diagrammatic purposes only.

Contours are an indication of landform and should not be taken in preference to spot levels shown.

Contour interval 0.5m