

DEVELOPMENT APPLICATION

ROSEHILL PUBLIC SCHOOL

Drawing List - Drawing Series						
Sheet Number	Sheet Name	Current Revision	Revision Description	Current Revision Date	Current Revision Issued	Approved By
0001	Cover Sheet	4	Issued for DA	22.09.17	No	JS
0002	Room Schedules	1	Issued for DA	22.09.17	No	JS
1000	Location Plan	4	Issued for DA	22.09.17	No	JS
1001	Site Analysis Plan	2	Issued for DA	22.09.17	No	JS
1002	Existing Site Plan	1	Issued for DA	22.09.17	No	JS
1003	Proposed Site Plan	4	Issued for DA	22.09.17	No	JS
1006	Open Play Space	1	Issued for DA	22.09.17	No	JS
1007	Streetscape Elevations	1	Issued for DA	22.09.17	No	JS
1008	Photographic Record	1	Issued for DA	22.09.17	No	JS
2000	Demolition Plan - Administration Building	1	Issued for DA	22.09.17	No	JS
2100	Ground Floor - School	1	Issued for DA	22.09.17	No	JS
2101	Level 1 - School	1	Issued for DA	22.09.17	No	JS
2102	Level 2 - School	1	Issued for DA	22.09.17	No	JS
2103	Roof - School	0	Issued for DA	22.09.17	No	JS
2104	Ground Floor - Admin	1	Issued for DA	22.09.17	No	JS
2105	Roof Plan - Admin	1	Issued for DA	22.09.17	No	JS
3001	East & North Elevations	6	Issued for DA	22.09.17	No	JS
3002	South & West Elevation	6	Issued for DA	22.09.17	No	JS
3003	Elevations - Administration Refurbishment	1	Issued for DA	22.09.17	No	JS
3500	Sections	1	Issued for DA	22.09.17	No	JS
3501	Sections - Administration	1	Issued for DA	22.09.17	No	JS
3600	Shadow Diagrams	0	Issued for DA	22.09.17	No	JS
8000	3D Perspectives	4	Issued for DA	22.09.17	No	JS
8001	3D Render	2	Issued for DA	22.09.17	No	JS

Grand total: 24



DA ISSUE



Education



PROJECT
Rosehill PS

INTERNAL PROJECT No:
16458

DATE:
22.09.17

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DRAWING
Cover Sheet

REV	DESCRIPTION	DATE	APPRO
0	Pre DA Meeting	17.07.17	KGS
1	Issue for PRG Sign Off	02.08.17	KGS
2	Issue for Review	15.08.17	KGS
3	Issue for CD Review	22.09.17	JS
4	Issued for DA	22.09.17	JS

SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:
RH - 01 -SD -AR -DR -0001 -4

Room Schedule							
stwwwt	Name	Level	Area	Briefed Area	Differential	Comments	TSG Approval
G01	Staff Room	Ground Floor	83 m²				
G02	Staff Annexe	Ground Floor	38 m²				
G03	Interview	Ground Floor	15 m²	13 m²	2 m²		
G04	Interview	Ground Floor	15 m²	13 m²	2 m²		
G06	Deputy	Ground Floor	26 m²	26 m²	0 m²		
G07	Printing	Ground Floor	17 m²				
G08	Switch	Ground Floor	11 m²				
G09	Cleaners	Ground Floor	5 m²				
G11	WC	Ground Floor	18 m²				
G12	WC	Ground Floor	18 m²				
G13	WC	Ground Floor	7 m²				
G14	Comms	Ground Floor	6 m²				
G16	Practical Activities	Ground Floor	24 m²				
G17	Home Base	Ground Floor	67 m²	66 m²	1 m²		
G18	Withdrawal	Ground Floor	12 m²				
G19	Home Base	Ground Floor	65 m²	66 m²	-1 m²		
G21	Home Base	Ground Floor	65 m²	66 m²	-1 m²		
G22	Withdrawal	Ground Floor	12 m²				
G23	Home Base	Ground Floor	67 m²	66 m²	1 m²		
G24	Practical Activities	Ground Floor	41 m²				

Ground Floor: 20

101	WC	Level 01	18 m²				
103	WC	Level 01	7 m²				
104	Comms	Level 01	6 m²				
106	Practical Activities	Level 01	22 m²				
107	Home Base	Level 01	71 m²	66 m²	5 m²		
109	Home Base	Level 01	69 m²	66 m²	3 m²		
113	Home Base	Level 01	71 m²	66 m²	5 m²		
116	Cleaners	Level 01	4 m²				
117	Practical Activities	Level 01	22 m²	12 m²	10 m²		
118	Home Base	Level 01	66 m²	66 m²	0 m²		
121	Home Base	Level 01	67 m²	66 m²	1 m²		
123	Home Base	Level 01	66 m²	66 m²	0 m²		
124	Practical Activities	Level 01	18 m²	12 m²	6 m²		
202	WC	Level 01	21 m²				
208	Withdrawal	Level 01	12 m²				
211	Home Base	Level 01	69 m²				
212	Withdrawal	Level 01	12 m²				
214	Practical Activities	Level 01	39 m²				
219	Withdrawal	Level 01	9 m²				
222	Withdrawal	Level 01	9 m²				

Level 01: 20

Room Schedule							
stwwwt	Name	Level	Area	Briefed Area	Differential	Comments	TSG Approval
201	WC	Level 02	18 m²				
203	WC	Level 02	7 m²				
204	Comms	Level 02	6 m²	6 m²	0 m²		
206	Practical Activities	Level 02	24 m²				
207	Home Base	Level 02	71 m²				
209	Home Base	Level 02	69 m²				
213	Home Base	Level 02	71 m²	66 m²	5 m²		
216	Cleaners	Level 02	4 m²				
217	Practical Activities	Level 02	22 m²	9 m²	13 m²		
218	Home Base	Level 02	66 m²	65 m²	1 m²		
221	Home Base	Level 02	67 m²	65 m²	2 m²		
223	Home Base	Level 02	66 m²	65 m²	1 m²		
224	Practical Activities	Level 02	18 m²	12 m²	6 m²		

Level 02: 13

DA ISSUE



DA ISSUE



SITE ACCESS ANALYSIS



WIND ANALYSIS



SUN ANALYSIS



1 Existing Site Plan
1:500



1 Proposed Site Plan
1:500

PROJECT BACKGROUND

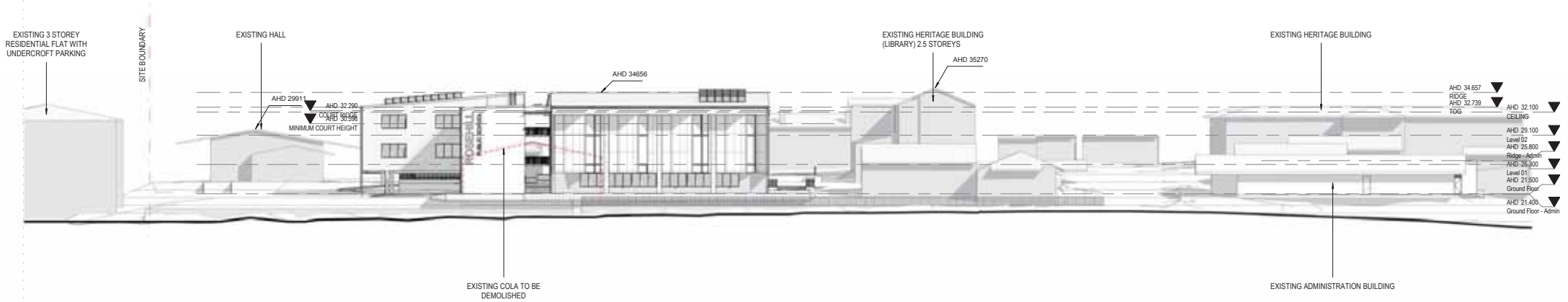
Existing No. of Students : 667
Proposed school student capacity: 874
Proposed new teaching space: 18



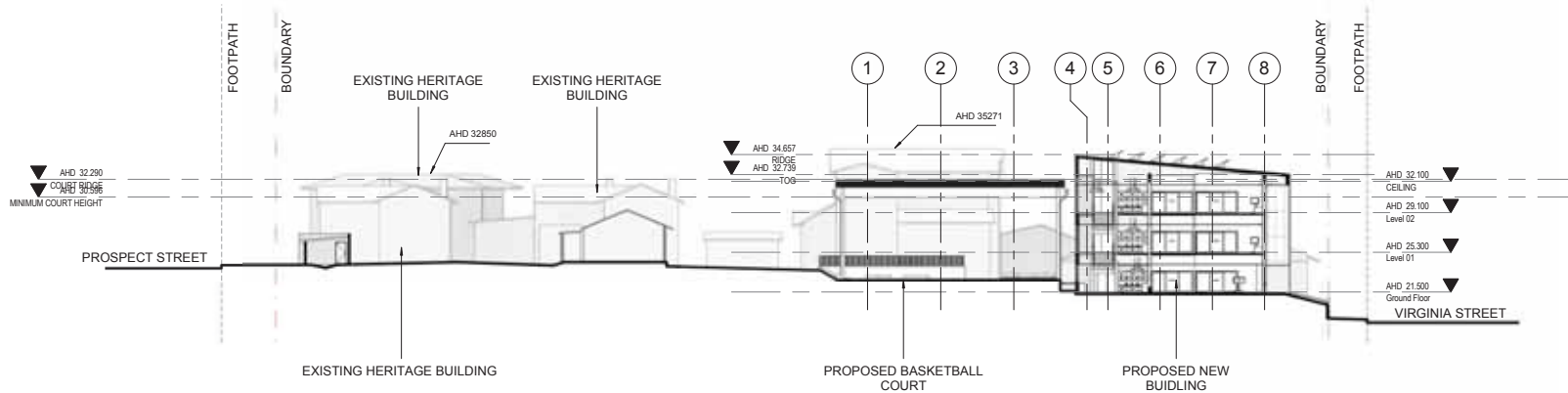
Note:
Total area of existing open play space
9985.51sqm / 667 current students
= 14.97sqm per student

9985.51sqm / 874 proposed students
= 11.43sqm per student

1 Open Play Space Diagram
1:500



1 Virginia Street - Streetscape Elevation



2 North South Site Section

DA ISSUE



View of existing canteen in the middle, existing heritage building on the right and left is general learning classrooms to be retained.



View of the existing heritage library, proposed new building and basketball court location.



View of the general learning buildings seen on site.



View of site for the proposed new building and basketball court, existing playground to be relocated.

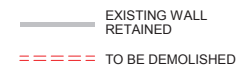


View from existing covered outdoor learning area looking towards site for the new building and existing basketball court. This COLA will be removed as part of the new building works.



View from existing hall looking towards the site for the new building and basketball court. This image also shows the oval and covered basketball court which will be relocated to the new building forecourt.

DA ISSUE

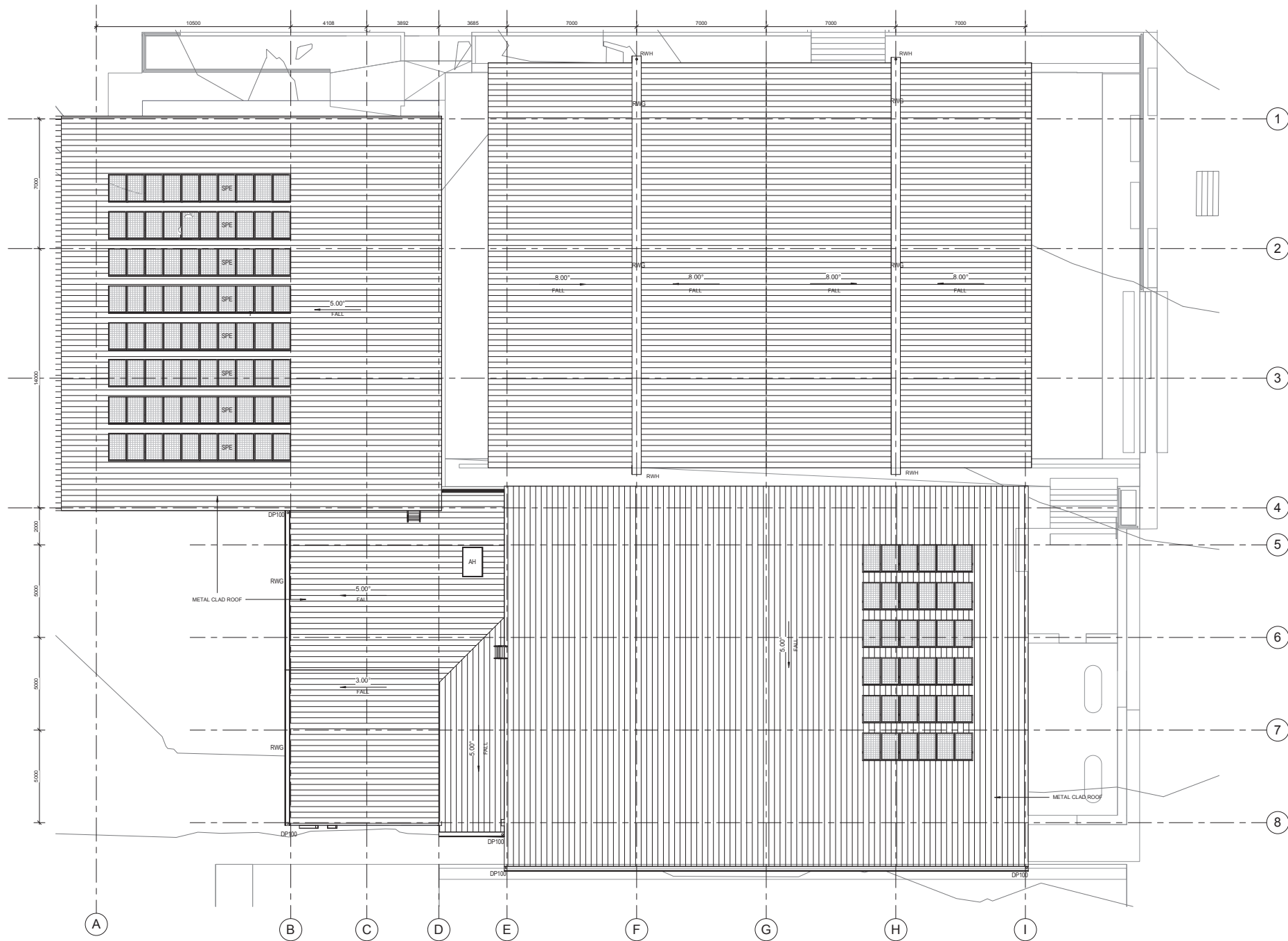


 Demolition Legend
1:100



1 Rosehill Level 1 - School
1007 1:100





MATERIAL LEGEND	
CFC	Compressed Fibre Sheet
BRK	Face Brickwork
MWC	Metal Wall Cladding
GCW	Glazed Curtain Wall
CONC	Concrete Columns
RWG	Rainwater Gutter
RAH	Roof Access Hatch
SUN1	Perforated Metal Sunshade - Colour 1
SUN2	Perforated Metal Sunshade - Colour 2
RS	Roller Shutter
DP	Metal Down Pipe
MRS	Metal Roof Sheet

NOTE: Refer to finishes schedule

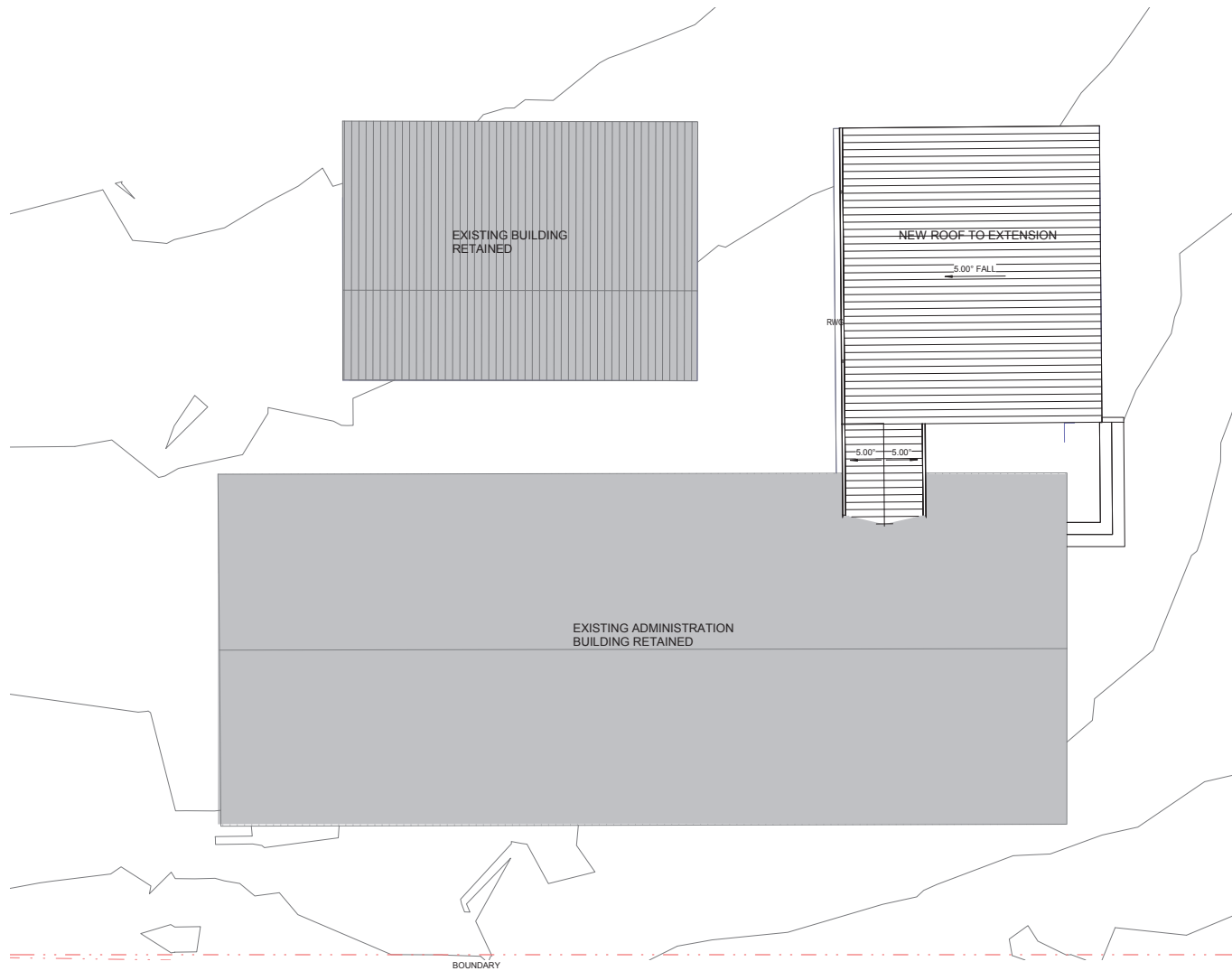
1 D - Roof - School
1:100

DA ISSUE



1 E - Ground Floor - Admin
1007 1:100

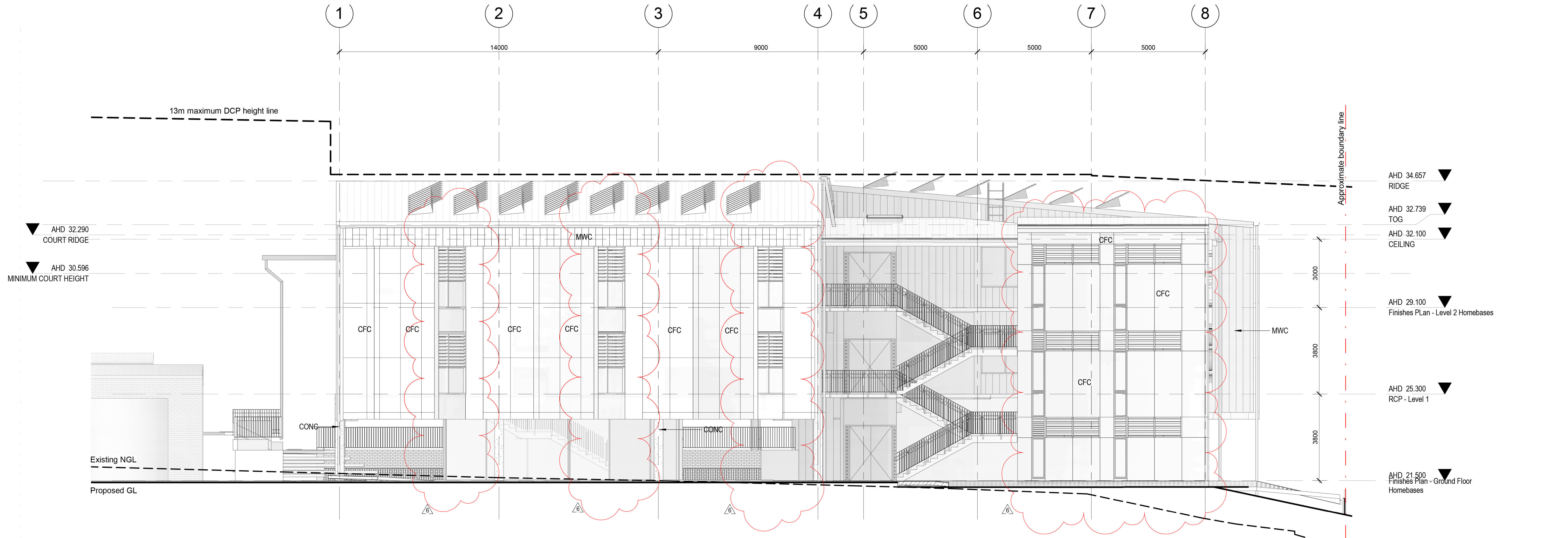
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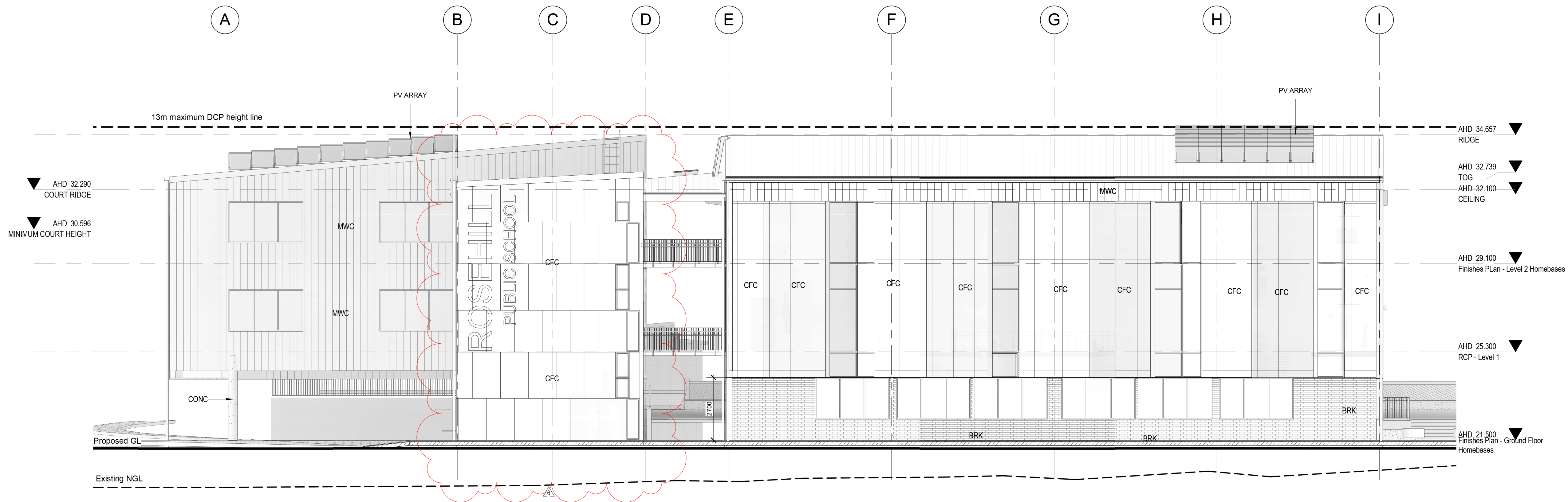
1 F - Roof - Admin
1007 1:100



NOTE: Refer to finishes schedule



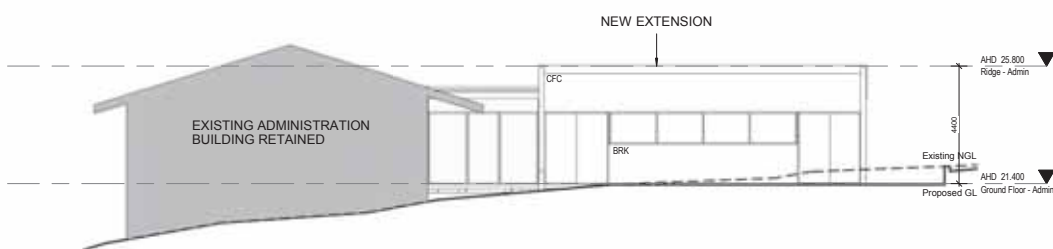
2 West Elevation
1:100



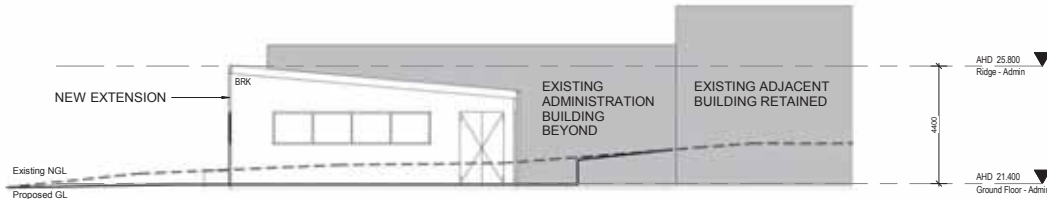
1 South Elevation
1:100

MATERIAL LEGEND	
CFC	Compressed Fibre Sheet
BRK	Face Brickwork
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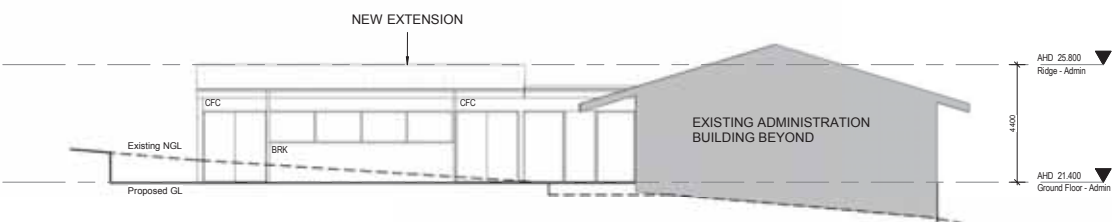
NOTE: Refer to finishes schedule



1 Admin - East Elevation
2104 1:100



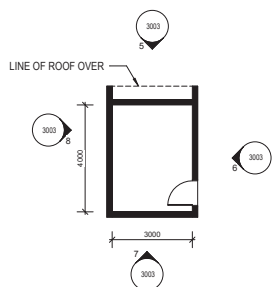
2 Admin - North Elevation
2104 1:100



3 Admin - West Elevation
2104 1:100

MATERIAL LEGEND	
CFC	Compressed Fibre Sheet
BRK	Face Brickwork
MWC	Metal Wall Cladding
GCW	Glazed Curtain Wall
CONC	Concrete Columns
RWG	Rainwater Gutter
RAH	Roof Access Hatch
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SUN2	Perforated Metal Sunshade - Colour 2
RS	Roller Shutter
DP	Metal Down Pipe
MRS	Metal Roof Sheeting

NOTE: Refer to finishes schedule



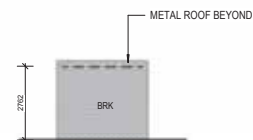
4 Hydrant Pump Enclosure
1003 1:100



5 Pump Enclosure - North Elevation
3003 1:100



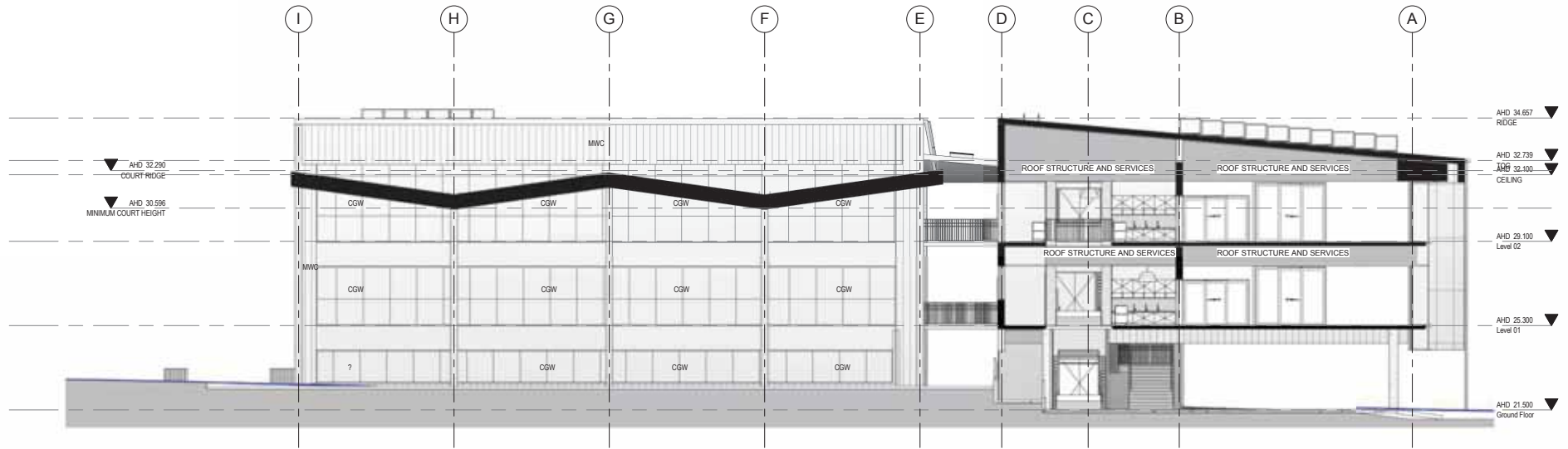
6 Pump Enclosure - East Elevation
3003 1:100



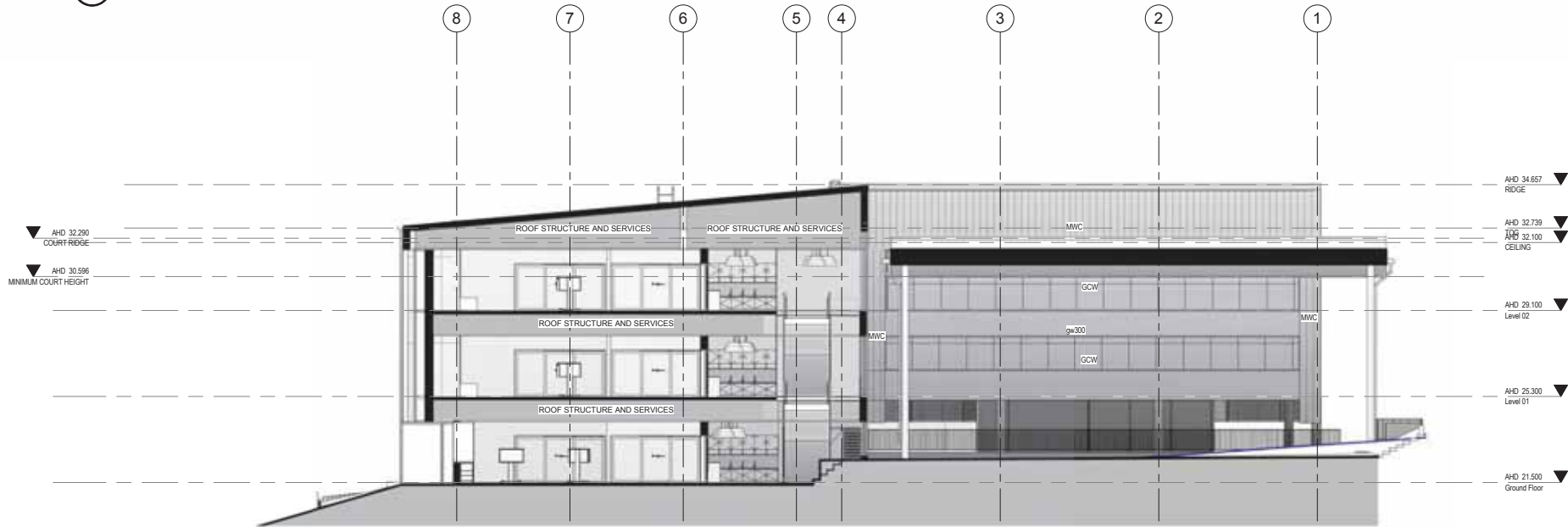
7 Pump Enclosure - South Elevation
3003 1:100



8 Pump Enclosure - West Elevation
3003 1:100



1 Section 1
2100 1:100

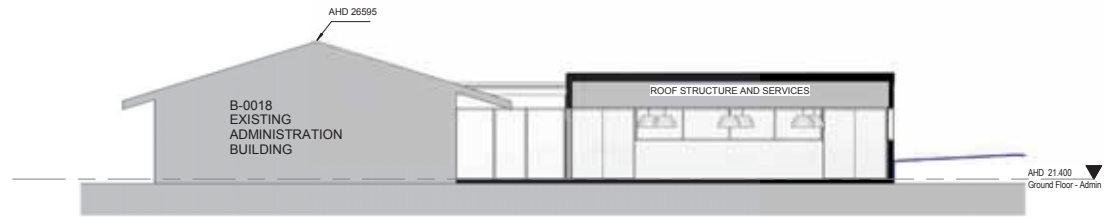


2 Section 2
2100 1:100

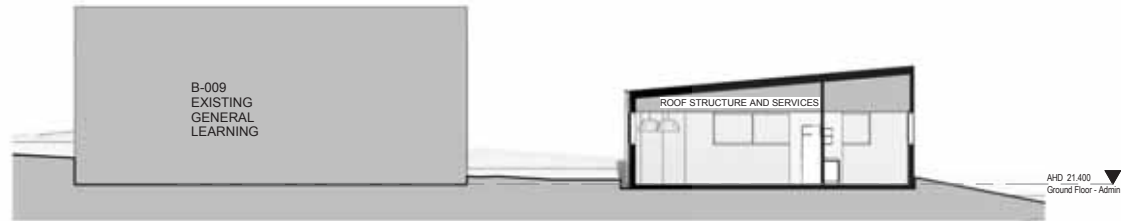
MATERIAL LEGEND	
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MRS	Metal Roof Sheetting

NOTE: Refer to finishes schedule

DA ISSUE



2 Section 7
2104 1:100



1 Section 6
2104 1:100

DA ISSUE

SHADOW TESTING FROM 9AM - 3PM ON WINTER SOLSTICE

Note: No over-shadow on neighbouring properties is recording from 9am to 3pm on Winter Solstice



1 Shadow Testing - 21 June 9am



2 Shadow Testing - 21 June 10am



3 Shadow Testing - 21 June 11am



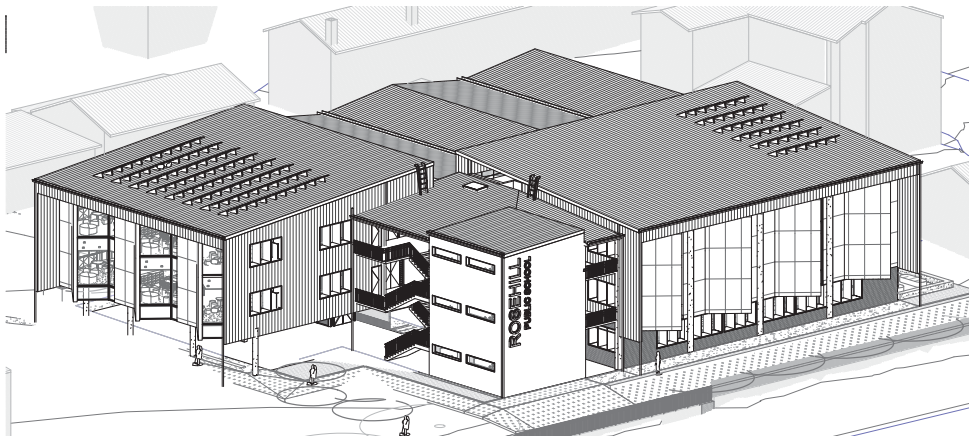
4 Shadow Testing - 21 June 1pm



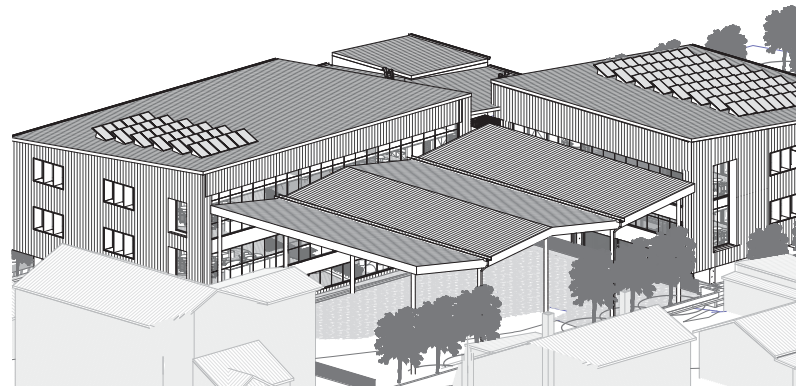
5 Shadow Testing - 21 June 2pm



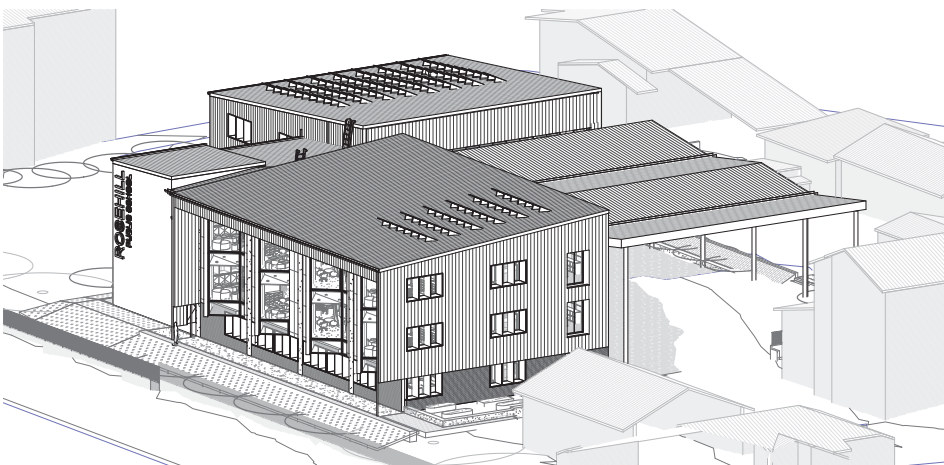
6 Shadow Testing - 21 June 3pm



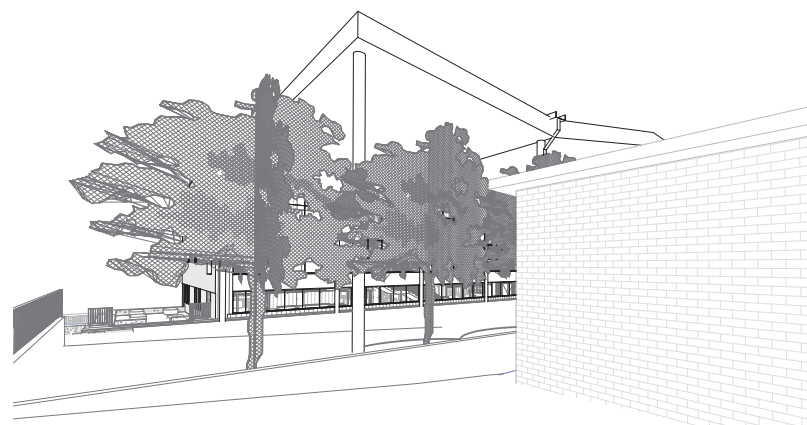
AXONOMETRIC VIEW FROM SOUTH WEST



AXONOMETRIC VIEW FROM NORTH EAST






AXONOMETRIC VIEW FROM SOUTH EAST



PERSPECTIVE VIEW FROM NORTH EAST TO BASKETBALL COURT

DA ISSUE

<div>CLIENT</div> <div>NSW GOVERNMENT</div> <div>Education</div>		<div>PROJECT MANAGER</div> <div>blueVisions certainty. innovation. excellence</div>	<div>ARCHITECT</div> <div>CONRAD GARGETT ANCHER MORTLOCK WOOLLEY</div>	<div>PROJECT</div> <div>Rosehill PS</div> <div><div>INTERNAL PROJECT No: 16458</div><div>DATE: 22.09.17</div></div> <div><div>© CONRAD GARGETT ANCHER MORTLOCK WOOLLEY mail@conradgargett.com.au ABN 49 325 121 350 DO NOT SCALE DRAWING & VERIFY ALL DIMENSIONS AND LEVELS ON SITE NOMINATED ARCHITECT: BRUCE WOLFE NSW Reg. 1889</div></div>	<div>DRAWING</div> <div>3D Perspectives</div>	<div>REV</div> <div><table><tr><th>REV</th><th>DESCRIPTION</th><th>DATE</th><th>APPRO</th></tr><tr><td>0</td><td>Issued for Information</td><td>30.08.17</td><td>JS</td></tr><tr><td>1</td><td>Pre DA Meeting</td><td>17.07.17</td><td>KGS</td></tr><tr><td>2</td><td>For Review</td><td>27.07.17</td><td>RH</td></tr><tr><td>3</td><td>Issue for Review</td><td>15.05.17</td><td>KGS</td></tr><tr><td>4</td><td>Issued for DA</td><td>22.09.17</td><td>JS</td></tr></table></div>	REV	DESCRIPTION	DATE	APPRO	0	Issued for Information	30.08.17	JS	1	Pre DA Meeting	17.07.17	KGS	2	For Review	27.07.17	RH	3	Issue for Review	15.05.17	KGS	4	Issued for DA	22.09.17	JS	<div>© A1</div> <div><div>SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:</div><div>RH - 01 -SD -AR -DR -8000 -4</div></div>
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The background of the entire page is a green geometric pattern of various triangles. In the upper right, a solid black circle represents a ball. Below it, the silhouettes of six children are shown in various playful poses, reaching up towards the ball. The children are positioned across the lower half of the page, with some on the left and others on the right. The overall scene is set against the green geometric background.

Rosehill Public School

LANDSCAPE ARCHITECTURAL PACKAGE

Landscape Schematic Design (DA Lodgement)
ISSUE D

CONRAD
GARGETT

ANCHER
MORTLOCK
WOOLLEY



Education

CONRAD GARGETT

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Nominated Architect: Bruce Wolfe NSW Reg. 6969

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LA002 Learning Experiences

LA003 Landscape Design Intent

LA004 Landscape Finishes Schedule

LA005 Landscape Master Plan

LA006 Landscape Surface Finishes Plan - Sheet 1

LA007 Landscape Surface Finishes Plan- Sheet 2

LA008 Landscape Surface Finishes Plan- Sheet 3

LA009 Landscape Sections - Sheet 1

LA010 Materials Palette - Hardscape

LA011 Materials Palette - Softscape

Revision	Description	Issue Date	Prepared By	Approved By
A	Preliminary Schematic Design	13/07/2017	Simon Lacey	Katharina Nieberler-Walker
B	Preliminary Development Application	01/08/2017	Simon Lacey	Katharina Nieberler-Walker
C	For DoE Sign Off	03/08/2017	Simon Lacey	Katharina Nieberler-Walker
D	DA Issue	08/09/2017	Simon Lacey	Katharina Nieberler-Walker

This report is produced by CONRAD GARGETT for NSW Education.

School Background

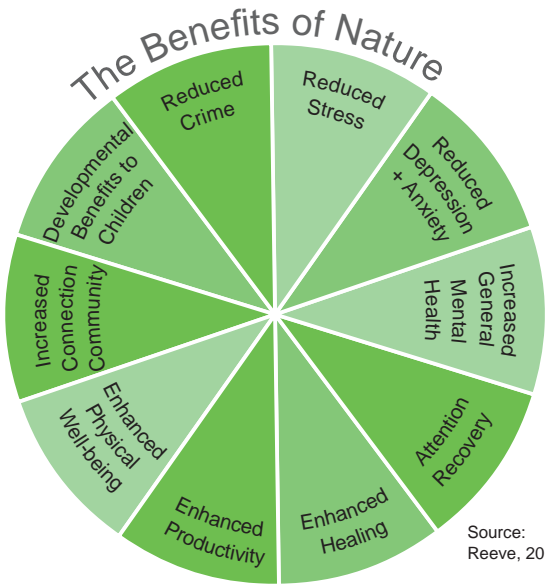
Rosehill Public School is located in Sydney's western suburbs five kilometres from the Parramatta CBD and has close associations with Sydney's early days. The school is located near the site of Sydney's first farm established by James Ruse in 1789 and the original school building erected in 1886 is still in use as a library.

Today, the school serves the suburbs of Harris Park, North Granville and East Parramatta, all of which are characterised by high density residential development. 84% of the children attending the school are from non-English speaking backgrounds (N.E.S.B.) with many claiming Rosehill as their first Australian school. The school places a heavy emphasis on teaching the basic skills of literacy and numeracy and early intervention is seen as a key factor in catering for the special needs of children attending the school.

Rosehill Public School provides opportunities that promote and celebrate diversity in teacher, student and community leadership. Quality teaching and learning is the uncompromising focus of the school and teachers are actively engaged in best practice professional learning.

The school parents and broader community highly value education and opportunities for student leadership and the school has a very committed and hard-working P&C and supportive community, who complement the educational and cultural experiences at the school and beyond.

<http://www.rosehill-p.schools.nsw.edu.au/our-school>
<https://www.myschool.edu.au/SchoolProfile/Index/105170/RosehillPublicSchool/41803/2016>



THE LANDSCAPE DESIGN LENS



The intent of the design is to create a landscape that will provide both a PLACE FOR LEARNING and a PLACE FOR NATURE for all staff, students, teachers, guardians and visitors.

DESIGN OBJECTIVE - "C.A.R.E."

- CREATE** landscape spaces that encourage interaction and communication among children and that is conducive to meeting or gathering for learners and staffs of different ages, social and cultural background.
- ACTIVATE** multi-functional and flexible spaces that can accommodate varied functions and activities that will allow children to explore, engage and reach beyond their comfort zone.
- REMAKE** outdoor learning environments that enhance the well-being of children and staffs, forms integral part of teaching and learning, and reinforces positive behaviour among children / learners such as spaces for reflection and taking time-out.
- ENGAGE** learners and staffs in preserving the school's native bush and green environment by providing a place that showcase the natural environment.



CLIENT	PROJECT MANAGER	ARCHITECT	DRAWING	DATE	REV	DESCRIPTION	DATE	APPD	DRAWING NUMBER-REV
			Rosehill Public School Prospect St, Rosehill NSW	SEPTEMBER 2017	A	Preliminary SD	13/07/17	KNW	RH-01-SD-LA-DR-0001-D
		ANCHER MORTLOCK WOOLLEY	INTERNAL PROJECT No: 16 458		B	Pre DA	01/08/17	KNW	
					C	DoE Sign off	03/08/17	KNW	
					D	DA Issue	08/09/17	KNW	

Learning Experiences

OPPORTUNITIES FOR MANY THINGS

DISCOVERY
STIMULATING
PARTICIPATION
RELAXATION
GEOGRAPHY
GEOMETRY
CALCULATIONS
ACADEMICS
CULTURE
TECHNOLOGY
RESOURCES
MAPPING
DIGITAL MEDIA
ARTS
AMENITY
INCLUSIVE
TIME OF DAY
NUMBERS
WELL-BEING
SOCIAL SKILLS
POETRY
EXPERIMENTS
SPORTS
COMMUNITY EVENTS
DIMENSIONS
OUTDOOR ACTIVITIES
PASSIVE AND ACTIVE RECREATION
COLOUR
HABITAT
REFUGE
ANIMALS AND PLANTS
APPRECIATION
MUSIC & DANCE
EXPRESSION



CLIENT	PROJECT MANAGER	ARCHITECT	DRAWING	DATE	NORTH	DRAWING	REV	DESCRIPTION	DATE	APPD	DRAWING NUMBER-REV
NSW GOVERNMENT Education	blueVisions certainty. innovation. excellence	CONRAD GARGETT ANCHER MORTLOCK WOOLLEY	Rosehill Public School Prospect St, Rosehill NSW INTERNAL PROJECT No: 16 458	SEPTEMBER 2017		Learning Experiences	A	Preliminary SD	13/07/17	KNW	
							B	Pre DA	01/08/17	KNW	
							C	DoE Sign off	03/08/17	KNW	
							D	DA Issue	08/09/17	KNW	
											RH-01-SD-LA-DR-0002-D

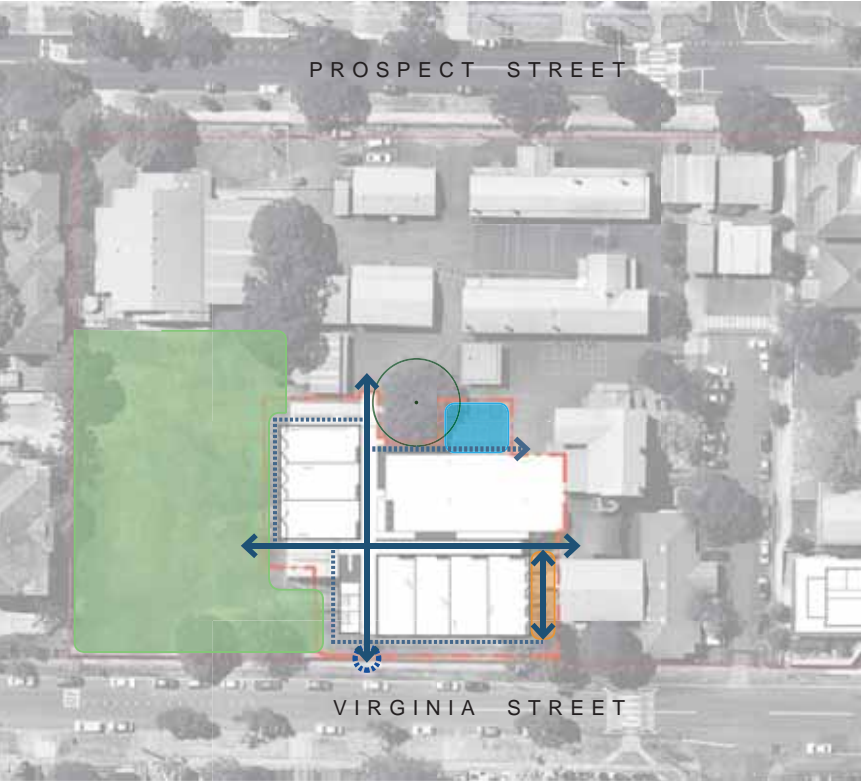
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Landscape Design Intent

Design intent for Rosehill Public School is to create and explore an environment that offers teaching staff and students with flexible spaces that best meet teaching, learning and play requirements.

Key areas of focus within the proposed design include a plaza space that creates a sense of place that fosters what the values that Rosehill Public School promotes.

The central plaza and central lawn will be functional, practical and adaptable to outdoor learning whilst overlooking and connecting to Play areas and 'green space' .



PA1

PA2

PA4

T1

ASTRO

P1

P2c

P4a

TGSI1

P3

SF1

SF2

SF3

SF4

ST1

Materials Schedule - Edging				
CODE	Edge Type	Supplier (or approved equivalent)	Size	Colour
CE	CE - Concrete Edge	N/A	150mm X 150mm formed concrete garden edge - 25MPa	Concrete Edge

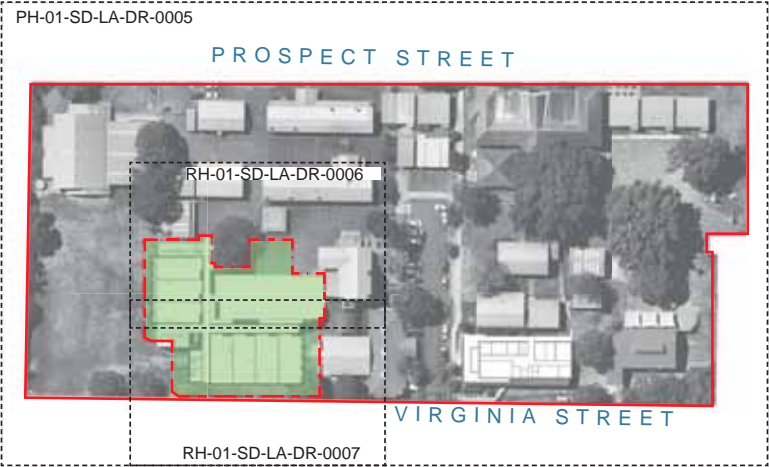
Materials Schedule - Walls and Fencing		
Type	Symbol	Description
Cricket Net Fence	NETS	Black posts and Black Wire Cricket Nets
Seat Wall 1	SW1	2000x500x500mm Sandstone blocks
W3 - In Situ Concrete Wall	W3	Insitu off form concrete wall class 2 finish
W5 - Brick Wall	W5	Brick veneer to concrete retaining wall, colour to match architecture

Legend Schedule - Site Improvements			
Type	Description	Dimensions	Reference
BAL1	Balustrade	HDG palicade balustrade with kerb rail 1100high, infill 16mm rods @ 100mm ctrs., 75x12mm posts @ 1000 ctrs., SHS 75x75mm kerb rail	Details 1, 2, 3, 5 LA0503
HA1	Handrail	HDG CHS fixed to balustrade posts / wall as detailed	Details 2-5 LA0503
	Raised Garden Bed	'Waterplex Slimline' garden bed, lined corrugated Bluescope galvanised steel with bottom panel and 2no drainage outlets	To supplier detail

Materials Schedule - Softscape				
Type	Pavement Type	Description	Mulch	Plant Stock/Turf
PA1 - Planting Type 1	Planting Type 1	Amenity Planting Areas	100mm Imported Mulch	Planting as per Planting Plans
PA2 - Veg/Herb Garden beds	Planting Type 1	Veg / Herb Garden Beds	50mm Imported - Sugar Cane Mulch	To be planted by school
PA4 - Swale Planting	Planting Type 4	Bioretention Swale	N/A	Turf
T1 - Turf 1	Turf Type 1	Amenity Turf	N/A	Wintergreen Couch

Materials Schedule - Hardscape						
Surface Finish	Type	Pavement Type	Supplier (or approved equivalent)	Size	Colour	Sealer
ASTRO	ASTRO	Cricket Pitch - Astro turf surface	N/A	Astro turf on concrete base with a rubberised surface for cricket.	White pitch marking with cricket pitch green.	N/A
P1	P1-Plain broom	Broom finished	N/A	Refer Engineer Detail	Plain grey concrete - Standard aggregate	N/A
P2c	P2c - Gothic Blue	Broom finished	N/A	Refer Engineer Detail	CCS Canvas	2 Coats - CCS Streetscape
P4a	P4a Permeable Charcoal	Permeable paver Type 2	Adbri Ecotrihex	88 x 181 x 80mm	Charcoal	NA
TGSI1	P5 Tactiles	Tactile Indicator - Unit paver	Chelmsstone	400 x 400 x 40mm	TBC	N/A
P3	P12-Coloured Asphalt	Exposed aggregate	N/A	Refer Engineer Detail	Mexphalte C with Abilox pigment colour 'Light Red'	N/A
SF1	RM1-Blue	Play soft fall	N/A	Refer Detail	Blue	N/A
SF2	RM2-Red	Play soft fall	N/A	Refer Detail	Red	N/A
SF3	RM3-Green	Play soft fall	N/A	Refer Detail	Green	N/A
SF4	RM4-Yellow	Play soft fall	N/A	Refer Detail	Yellow	N/A
ST1	ST1-Plain broom	Broom finished Stair	N/A	Refer Engineer Detail	Plain grey concrete - Standard aggregate / Formed riser and Broom Finish Tread	N/A

Key Plan

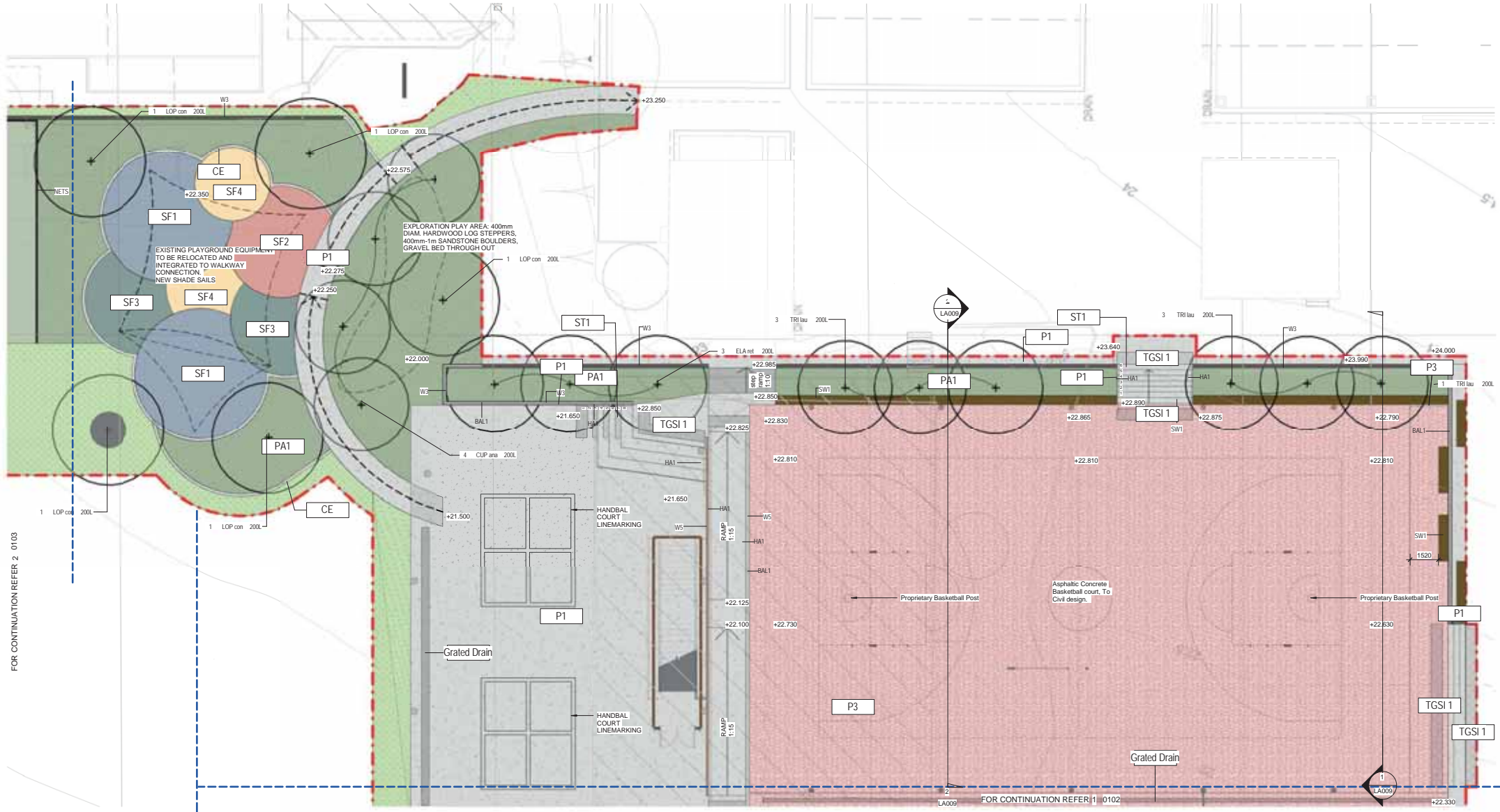




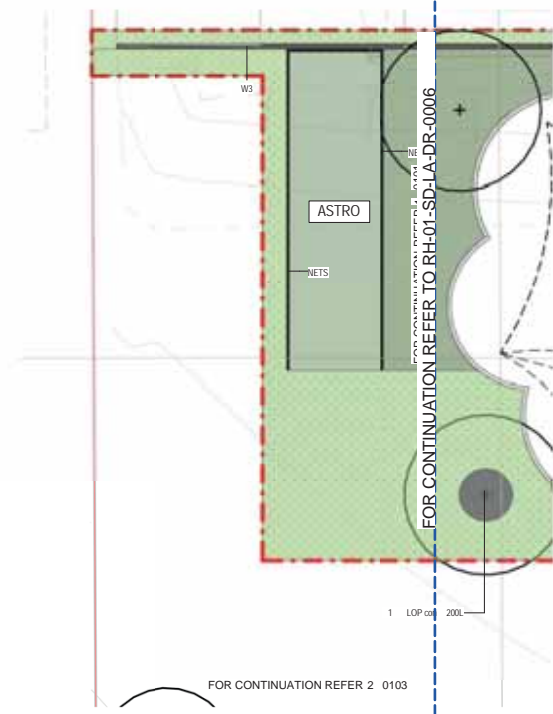
LEGEND

- 1 Formalised entry on Virginia Street with new planting to street frontage
- 2 Covered walkway
- 3 Informal gathering/learning space
- 4 Seating and gathering interface between buildings
- 5 Relocated handball courts
- 6 Relocated existing play equipment
- Landscape Scope of Work
- Property Boundary

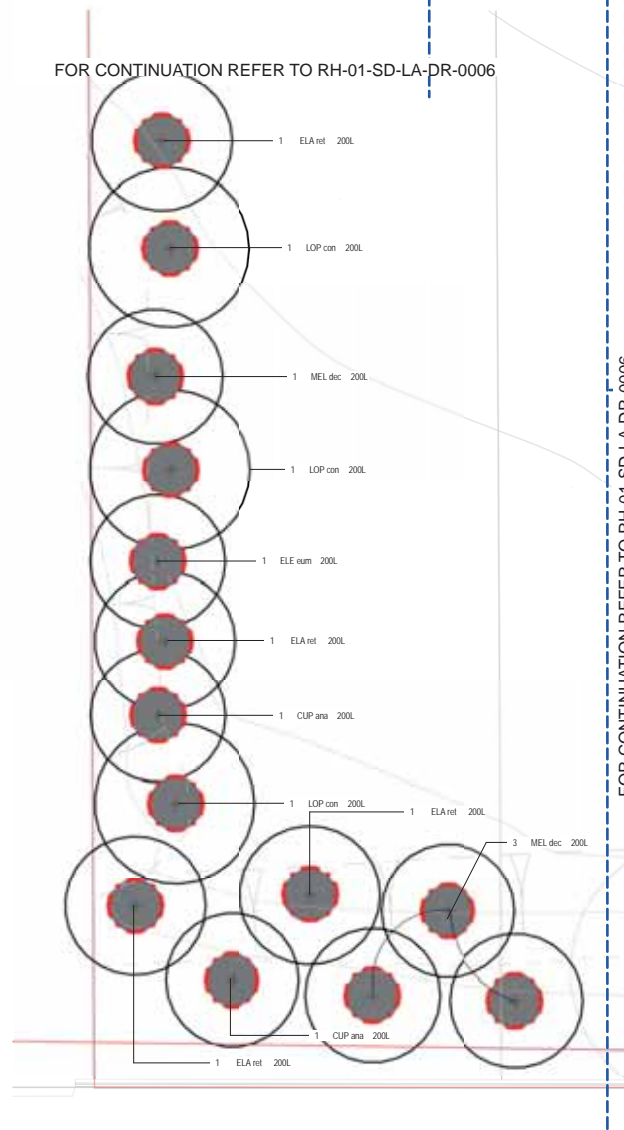
CLIENT	PROJECT MANAGER	ARCHITECT	DRAWING			NORTH	DRAWING	REV	DESCRIPTION	DATE	APPD	2.5 0 2.5 5 7.5 10 12.5m SCALE: 1:250 (A1) / 1:500 (A3)
			Rosehill Public School Prospect St, Rosehill NSW	INTERNAL PROJECT No: 16 458	DATE SEPTEMBER 2017		Landscape Master Plan	A	Preliminary SD	13/07/17	KNW	DRAWING NUMBER-REV RH-01-SD-LA-DR-0005-D
								B	Pre DA	01/08/17	KNW	
								C	DoE Sign off	03/08/17	KNW	
								D	DA Issue	08/09/17	KNW	
<p>© CONRAD GARGETT ANCHER MORTLOCK WOOLLEY mail@conradgargett.com.au ABN 49 325 121 350 DO NOT SCALE DRAWING & VERIFY ALL DIMENSIONS AND LEVELS ON SITE NOMINATED ARCHITECT: BRUCE WOLFE NSW Reg. 6989</p>												



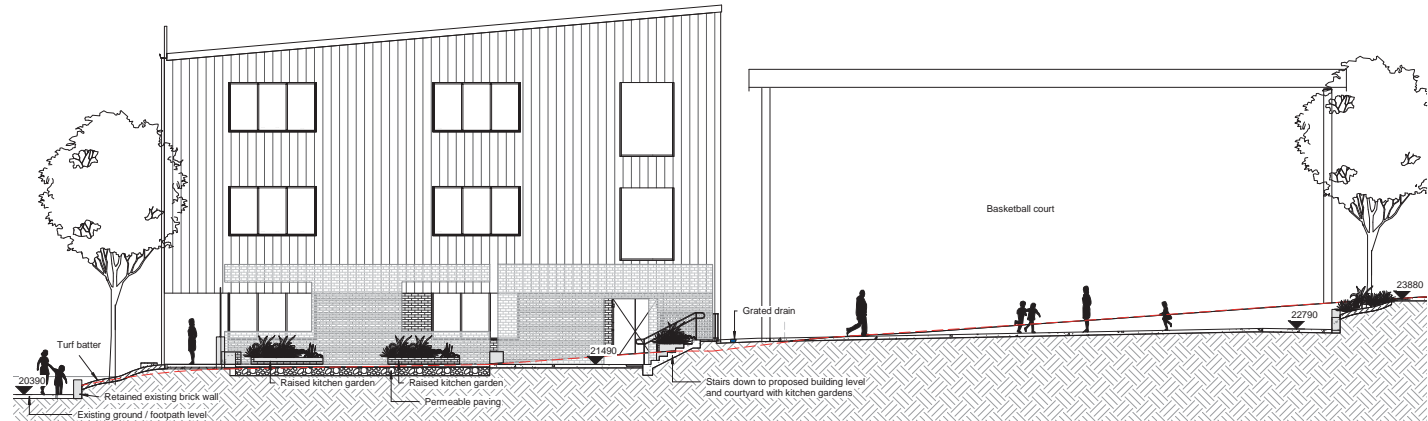
FOR CONTINUATION REFER TO RH-01-SD-LA-DR-0007



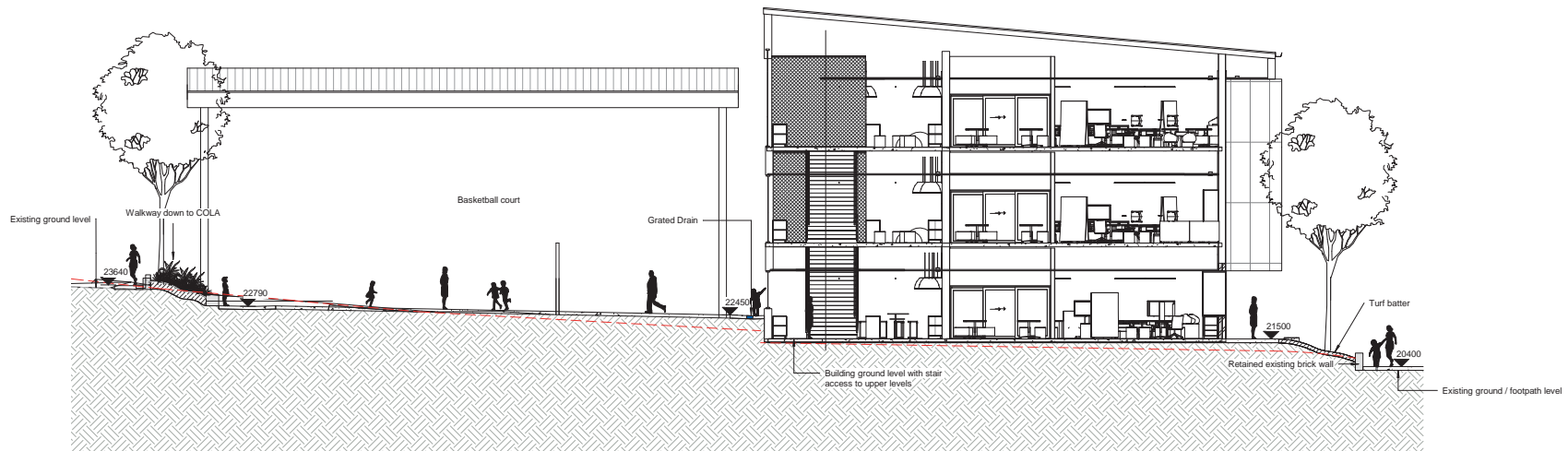
1 L 0100 Surface Finishes Plan - Sheet 3 Blow Up Area 1
1:100



2 L 0100 Surface Finishes Plan - Sheet 3 Blow Up Area 2
1:100



1 Section - Landscape Long Section 1
1:100



2 Section - Landscape Long Section 2
1:100

PAVING

P1



PLAIN GREY CONCRETE (P1)
Colour: Portland Grey
Broom Finish

P2b



FULL DEPTH COLOURED CONCRETE (P2c)
Colour: CCS Gothic Blue
Broom Finish

P2g



FULL DEPTH COLOURED CONCRETE (P2g)
Colour: CCS Kakadu
Broom Finish

P4a



PERMEABLE UNIT PAVERS (P4a)
88mm x 181mm x 80mm
Type: 'Ecotrihex' paver with gravel infill
Colour: Oatmeal
Supplier: Adbri Masonry

TGSI



TACTILE INDICATORS
300mm x 300mm x 40mm
Type: Pre-cast concrete paver
Colour: Black
Supplier: Chelmstone or equivalent

TGSI



TACTILE INDICATORS
300mm x 300mm x 40mm
Type: Pre-cast concrete paver
Colour: Ivory
Supplier: Chelmstone or equivalent

WALLS



CONCRETE SEATING WALLS
350mm (H) x 600mm (D) Length varies
Insitu off form concrete
Colour: Portland grey

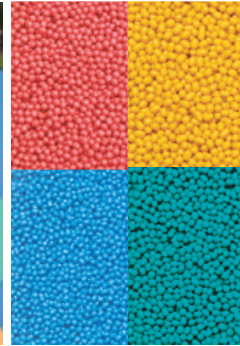


RAISED GARDEN BEDS
Corrugated iron vegetable garden beds
400mm (H) x 1200mm (D) Length varies
Colour: Galvanised Steel
Supplier: TBC

PLAY AREA



KIDS PLAY AREA
Rubberised softfall (Playsoft - Red, Blue, Yellow, Green)



FURNITURE



2600mm (L) x 755mm (H) x 620mm (D)
Frame: Black Powder Coated Steel,
Cladding: Black Powder Coated Steel,
Slats: Select Timber Hardwood
Supplier: MOS or equivalent

EDGES



150mm x 150mm
Plain Grey Concrete

TREES

CUP ana



Cupaniopsis anacardioides
TUCKEROO
15m x 5-10m
Mature height and spread
Container Size at install: 200Ltr

ELE eum



Elaeocarpus eumundi
EUMUNDI QUANDONG
10m x 4m
Mature height and spread
Container Size at install: 200Ltr

ELA ret



Elaeocarpus reticulatus
BLUEBERRY ASH
10m x 4m
Mature height and spread
Container Size at install: 200Ltr

EUC sid



Eucalyptus sideroxylon
MUGGA IRON BARK
20m x 8m
Mature height and spread
Container size ad install: 200L

LOP con



Lophostemon confertus
BRUSH BOX
15m x 5-10m
Mature height and spread
Container Size at install: 200Ltr

MEL dec



Melaleuca decora
WHITE CLOUD TREE
10m x 4m
Mature height and spread
Container Size at install: 200Ltr

TRI lau



Tristaniopsis laurina
WATER GUM
15m x 5-10m
Mature height and spread
Container Size at install: 200Ltr

SHRUBS/GRASSES



Banksia spinulosa
HAIRPIN BANKSIA
200mm min. pot size



Callistemon viminalis 'Little John'
DWARF BOTTLEBRUSH
200mm min. pot size



Cyathea cooperi
TREE FERN
45L min. pot size



Doryanthes excelsa
GYMEA LILY
200mm min. pot size



Hardenbergia violacea
FALSE SARSPARILLA
200mm min. pot size
4 per square metre



Lomandra longifolia
MAT-RUSH
140mm min. pot size
3 per square metre



Pennisetum alopecuroides
'Nafay' FOXTAIL GRASS
140mm min. pot size
4 per square metre



Phormium tenax 'Flamin'
Purple New Zealand Flax
140mm min. pot size
3 per square metre

GROUND COVERS



Brachyscome multifida
CUT LEAF DAISY
140mm min. pot size
4 per square metre



Cissus antarctica
KANGAROO VINE
140mm min. pot size
4 per square metre



Eremophila glabra prostrata
'Blue Horizon' EMU BUSH
140mm min. pot size
4 per square metre



Hibbertia scandens
TWINING GUINEA FLOWER
140mm min. pot size
4 per square metre



Myoporum ellipticum
COASTAL BOOBIALLA
140mm min. pot size
4 per square metre



Viola hederacea
NATIVE VIOLET
140mm min. pot size
4 per square metre

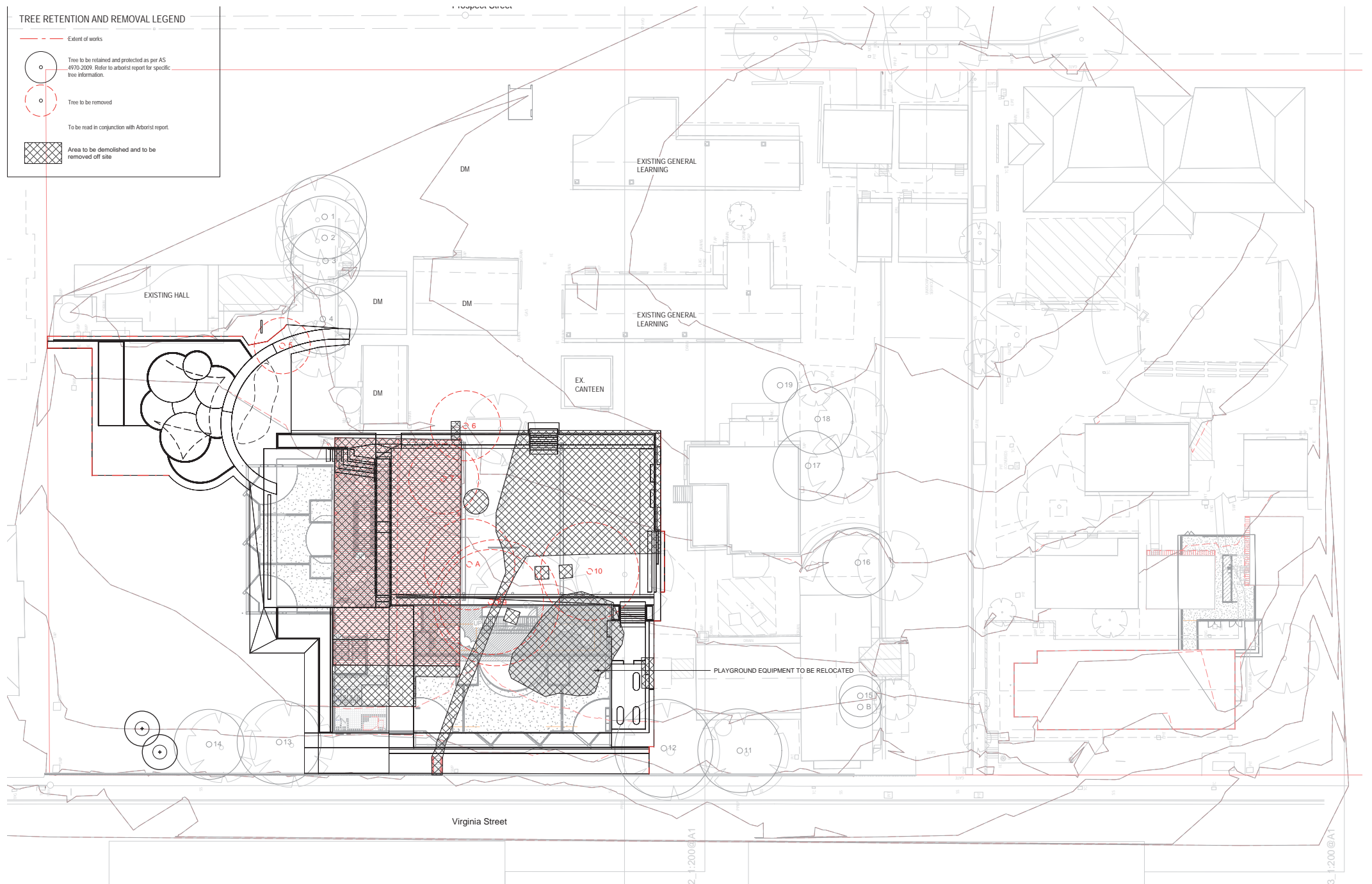
CLIMBERS

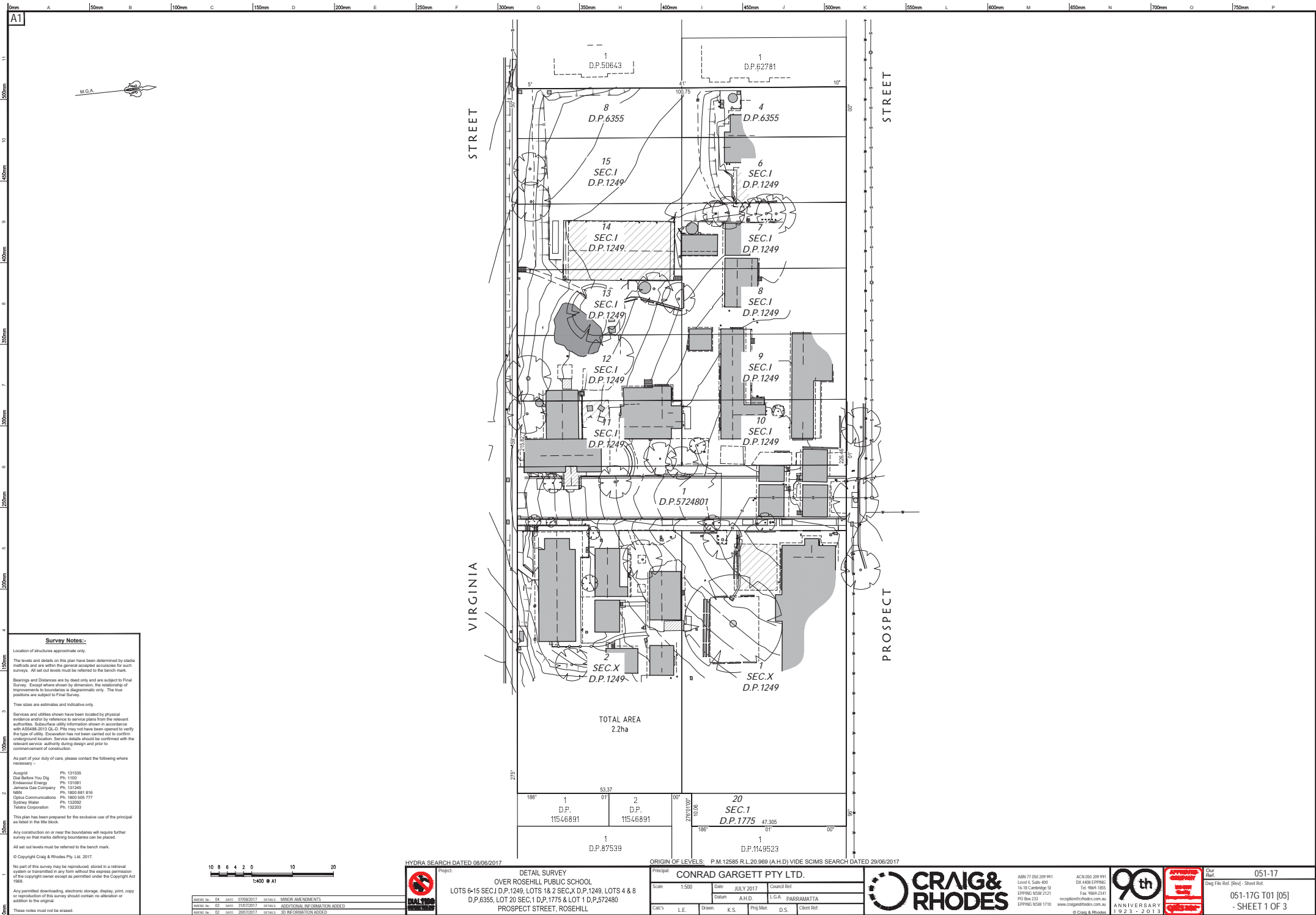


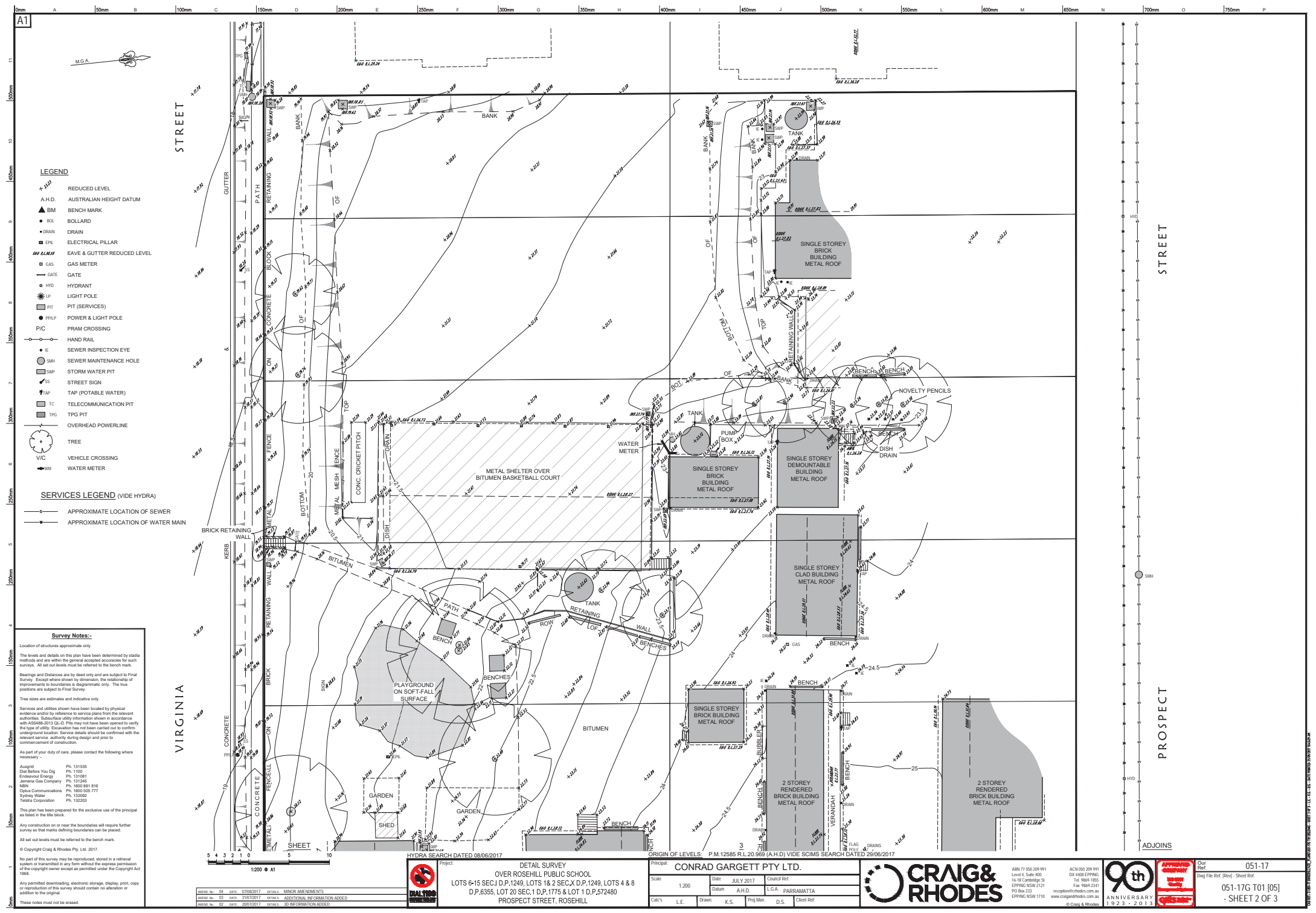
Pandorea pandorana
WONGA WONGA VINE
140mm min. pot size

TREE RETENTION AND REMOVAL LEGEND

- Extent of works
- Tree to be retained and protected as per AS 4970:2009. Refer to arborist report for specific tree information.
- Tree to be removed
- To be read in conjunction with Arborist report.
- Area to be demolished and to be removed off site







- LEGEND**
- REDUCED LEVEL
 - A.H.D. AUSTRALIAN HEIGHT DATUM
 - BM BENCH MARK
 - BOL BOLLARD
 - DRAIN
 - EPL ELECTRICAL PILLAR
 - EAVE & GUTTER REDUCED LEVEL
 - GAS METER
 - GATE
 - HYD HYDRANT
 - LP LIGHT POLE
 - PT PIT (SERVICES)
 - PPPL POWER & LIGHT POLE
 - P/C PRAM CROSSING
 - HAND RAIL
 - SEWER INSPECTION EYE
 - SEWER MAINTENANCE HOLE
 - STORM WATER PIT
 - SS STREET SIGN
 - TAP (POTABLE WATER)
 - TC TELECOMMUNICATION PIT
 - TPG PIT
 - OVERHEAD POWERLINE
 - TREE
 - V/C VEHICLE CROSSING
 - WM WATER METER
- SERVICES LEGEND (VIDE HYDRA)**
- APPROXIMATE LOCATION OF SEWER
 - APPROXIMATE LOCATION OF WATER MAIN

Survey Notes:-

Location of structures approximate only.

The levels and details on this plan have been determined by static methods and are within the general accepted accuracies for such surveys. All set out levels must be referred to the bench mark.

Boundaries and Distances are by deed only and are subject to Final Survey. Except where shown by dimension, the relationship of improvements to boundaries is diagrammatic only. The true positions are subject to Final Survey.

Tree sizes are estimates and indicative only.

Services and utilities shown have been located by physical evidence and/or by reference to service plans from the relevant authorities. Subsurface utility information shown in accordance with AS4846:2013 (S.U.I.) may not have been opened to verify the type of utility. Excavation has not been carried out to confirm underground location. Service details should be confirmed with the relevant service authority during design and prior to commencement of construction.

As part of your duty of care, please contact the following where necessary:-

Augstid	Ph. 131535
Die Before You Dig	Ph. 1300
Endeavour Energy	Ph. 131081
Jemena Gas Company	Ph. 131245
NBN	Ph. 1800 881 816
Optus Communications	Ph. 1800 688 777
Sydney Water	Ph. 132002
Telstra Corporation	Ph. 132203

This plan has been prepared for the exclusive use of the principal as listed in the title block.

Any construction on or near the boundaries will require further survey so that marks defining boundaries can be placed.

All set out levels must be referred to the bench mark.

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REVISION	DATE	DESCRIPTION	BY	CHKD
1	07/06/2017	DETAILS		
2	07/06/2017	DETAILS		
3	07/06/2017	DETAILS		
4	07/06/2017	DETAILS		
5	07/06/2017	DETAILS		
6	07/06/2017	DETAILS		
7	07/06/2017	DETAILS		
8	07/06/2017	DETAILS		
9	07/06/2017	DETAILS		
10	07/06/2017	DETAILS		

HYDRA SEARCH DATED 08/06/2017

ORIGIN OF LEVELS: P.M. 12585 R.L. 20.969 (A.H.D.) VIDE SCIMS SEARCH DATED 20/06/2017

Project: CONRAD GARGETT PTY LTD.

Scale: 1:200

Date: JULY 2017

Datum: A.H.D.

Calcs: L.E.

Drawn: K.S.

Proj Mgr: D.S.

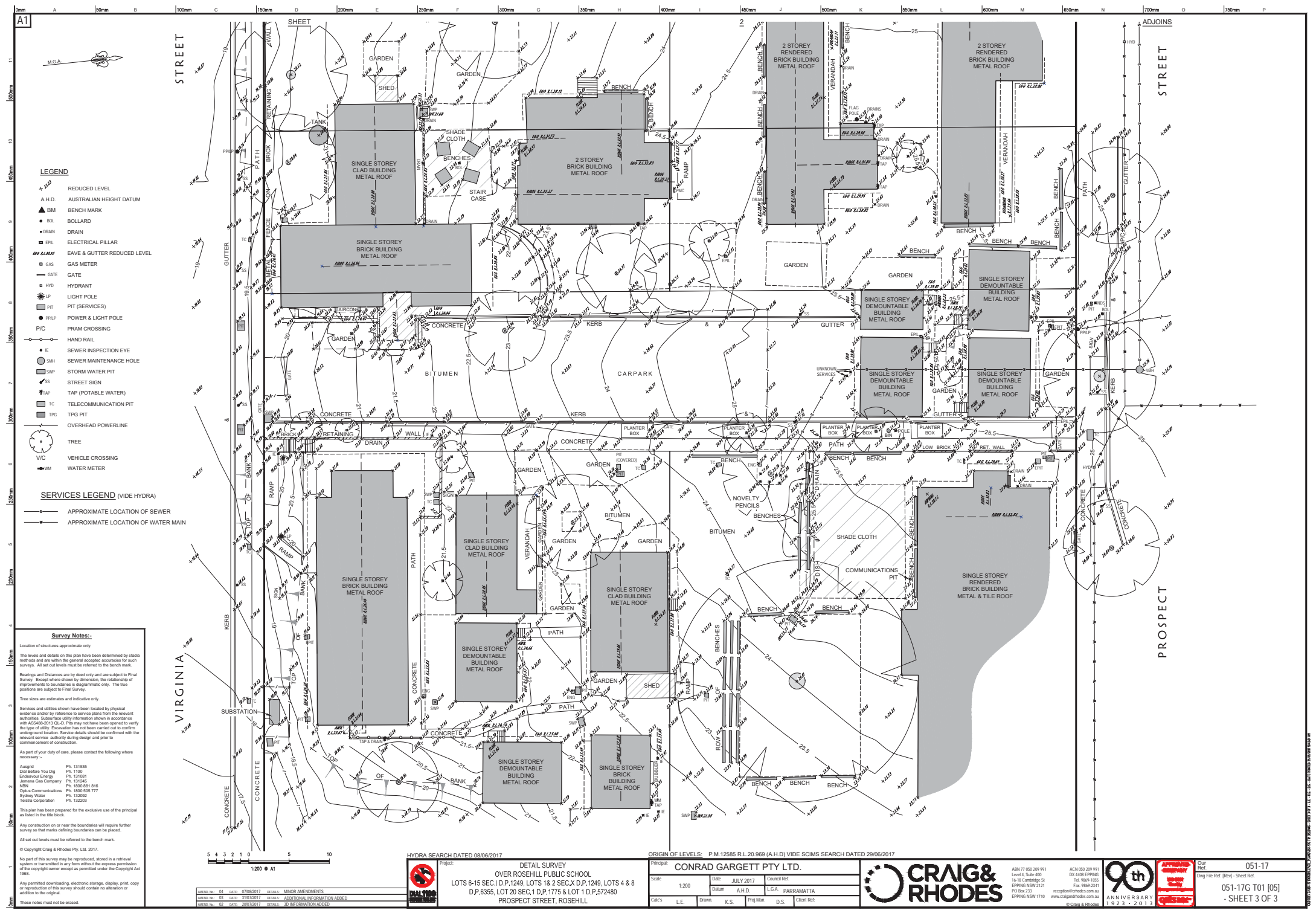
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PARRAMATTA NSW 2120
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Fax: 06 969 2511
ncorp@ncorp.com.au
www.ncorp.com.au

80th
ANNIVERSARY
1923 - 2013

Our Sheet: 051-17
Day File Ref: [Redacted] - Sheet Ref.
051-17G T01 [05]
- SHEET 2 OF 3



Survey Notes:-
Location of structures approximate only.
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Tree sizes are estimates and indicative only.
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As part of your duty of care, please contact the following where necessary:-
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Endeavour Energy Ph: 131581
Jemena Gas Company Ph: 131245
NBN Ph: 1800 881 816
Optus Communications Ph: 1800 688 777
Sydney Water Ph: 132092
Telstra Corporation Ph: 132203
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REVISION	DATE	BY	REASON	APPROVED
001	07/08/2017	CONRAD GARRETT PTY LTD.	INITIAL SURVEY	
002	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
003	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
004	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
005	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
006	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
007	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
008	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
009	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	
010	07/08/2017	CONRAD GARRETT PTY LTD.	REVISIONS	

HYDRA SEARCH DATED 08/06/2017
PROJECT
DETAIL SURVEY
OVER ROSEHILL PUBLIC SCHOOL
LOTS 6-15 SEC 1 D.P.1249, LOTS 18 & 2 SEC 2 D.P.1249, LOTS 4 & 8
D.P.6355, LOT 20 SEC 1 D.P.1775 & LOT 1 D.P.572480
PROSPECT STREET, ROSEHILL
ORIGINAL OF LEVELS: P.M.12585 R.L.20.969 (A.H.D.) VIDE SCIMS SEARCH DATED 20/06/2017
Principal: CONRAD GARRETT PTY LTD.
Scale: 1:200
Date: JULY 2017
Datum: A.H.D.
L.G.A.: PARRAMATTA
Calcs: L.E.
Drawn: K.S.
Proj Mgr: D.S.
Client Ref:

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1923 - 2013

Our Ref: 051-17
Drawing Ref: [Redacted] - Sheet Ref.
051-17G T01 [05]
- SHEET 3 OF 3

ROSEHILL PUBLIC SCHOOL

PROSPECT STREET, GRANVILLE

DRAWING LIST - CIVIL

RH-01-SD-DR-0002	CIVIL NOTES SHEET
RH-01-SD-DR-0003	OSD TANK SECTION AND DETAILS
RH-01-SD-DR-2100	SITE STORMWATER PLAN
RH-01-SD-DR-2101	EROSION AND SEDIMENT CONTROL PLAN

PRELIMINARY

CIVIL AND DRAINAGE NOTES

C1. ALL LEVELS ON STRUCTURAL/CIVIL DRAWINGS ARE TO DATUM NOMINATED BY PROJECT SURVEYOR.
REFER SURVEY DRAWINGS FOR EXISTING BOUNDARIES, LEVELS ETC.
ALL LEVELS ARE IN METRES. ALL EXISTING LEVELS SHOWN ARE TO BE CONFIRMED ON SITE.

C2. PAVEMENT LEVELS ARE FINISHED LEVELS THROUGHOUT.

C3. ANY EXISTING PAVEMENT, KERB AND CHANNEL, KERB OR THE LIKE THAT IS DAMAGED DURING CONSTRUCTION IS TO BE REINSTATE TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE RELEVANT AUTHORITY PRIOR TO THE COMPLETION OF WORKS.

C4. ALL EARTH BATTERS ARE TO BE IN THE RATIO OF 1 TO 4 OR LESS UNLESS NOTED OTHERWISE.
BATTERS ARE TO BE KEPT A MINIMUM 1 METRE FROM BUILDINGS, ROADS, WALLS AND THE LIKE.

C5. SUBGRADE PREPARATION:
ALL VEGETATION, TOP SOIL AND FILL MATERIAL SHALL BE REMOVED FROM THE PAVEMENT AREA AND EXTENDING 300mm PAST THE EDGE OF THE PAVEMENT TO EXPOSE THE SUBGRADE MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT.
THE SUBGRADE (PRIOR TO ANY FILL OR PAVEMENT BEING PLACED) SHALL BE PROOF ROLLED IN THE PRESENCE OF THE PROJECT GEOTECHNICAL ENGINEER (OR RELEVANT AUTHORITY) AND BE APPROVED TO HAVE A MINIMUM CBR OF 3% UNLESS NOTED OTHERWISE. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE BETWEEN 90% AND 120% OF O.M.C.

C6. ANY SOFT SPOTS ENCOUNTERED SHALL BE EXCAVATED AND REPLACED WITH COMPACTED FILL IN LAYERS NOT GREATER THAN 150mm THICK TO A MINIMUM DENSITY OF 98% S.D.D MEASURED IN ACCORDANCE WITH AS 1289.5.2.1.
THE MATERIAL TO BE USED AS FILL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
THE CLIENT IS TO BE ADVISED OF ANY VARIATION WORKS RELATING TO SUBGRADE PREPARATION PRIOR TO PROCEEDING WITH ANY REMEDIAL WORKS.

C7. ALL DRAINAGE, WORKMANSHIP AND MATERIALS TO COMPLY WITH:
AS 3300.2:2015 (STORMWATER DRAINAGE)
AS 3302:2011 (RESIDENTIAL SLABS AND FOOTINGS)
RMS STANDARD DRAWINGS AND SPECIFICATIONS.
RELEVANT AUTHORITY AS APPLICABLE.

C8. FINISHED SURFACES ADJACENT TO BUILDINGS ARE TO FALL 50mm MIN AWAY FROM BUILDING FOR THE FIRST METRE.

C9. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND IDENTIFY ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION.

C10. PRIOR TO COMMENCING WORK THE CONTRACTOR IS TO ENSURE THAT ALL NECESSARY INVESTIGATION IS UNDERTAKEN TO ENSURE THAT THE WORKS CAN BE CONSTRUCTED AS DESIGNED.
IF THE WORK CANNOT BE CARRIED OUT AS SHOWN THE CLIENT IS TO BE NOTIFIED IMMEDIATELY.

C11. REFER TO ARCHITECTS DRAWINGS FOR CONSTRUCTION LEVELS.
REFER ANY DISCREPANCIES TO THE ARCHITECT.

C12. ALL EXISTING UNDERGROUND SERVICES ARE TO BE LOCATED PRIOR TO ANY EXCAVATION AND NO EXISTING SERVICE SHALL BE DISCONNECTED OR DISTURBED WITHOUT THE APPROVAL OF THE CLIENT OR RESPONSIBLE AUTHORITY.

C13. ALL PIT COVERS TO COMPLY WITH AS3300.3:2015 STORMWATER AND DRAINAGE AND AS3396:2006 ACCESS COVERS AND GRATES: BUILDER TO CONFIRM ALL PIT COVER TYPES AND FINISH WITH THE ARCHITECT AND/OR SUPERINTENDENT AND ENSURE FIT FOR PURPOSE PRIOR TO ORDERING.

C14. STORMWATER DRAINS SUSPENDED UNDER SLABS OR ALONG WALLS SHALL BE TO APPROVED DETAILS.

C15. ANY MISALIGNMENTS THAT MAY BE SOLVED BY CORRELLING OF PIT WALLS MAY ONLY BE CARRIED OUT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

C16. ALL DOWNPIPE COLLECTOR PIPES SHALL MATCH DOWNPIPE SIZE (100 DIA MIN) AT A GRADE OF 1 IN 100 UNLESS NOTED OTHERWISE.

ALL PIPE JOINTS SHALL BE MADE WITH A 45° JOINT.

C17. CLASS OF PIPES:
(a) CONCRETE PIPES (PC)
SHALL CONFORM TO AS 1342 'PRECAST CONCRETE DRAINAGE PIPES' AND SHALL BE CLASS 2 PIPE WITH SPOOT AND SOCKET RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
ALL CONCRETE PIPES UNDER PAVEMENTS TO BE CLASS 4

(b) FIBRE REINFORCED CEMENT PIPES (FRC)
SHALL CONFORM TO AS 1342 'PRECAST CONCRETE DRAINAGE PIPES' AND SHALL BE TESTED TO THE REQUIREMENTS OF AS 1712 APPENDIX Y 'ASBESTOS CEMENT SEWER PIPES'.
ALL FRC PIPES SHALL BE CLASS X WITH ADOCL 'Y' RING JOINTS.
FOR PIPE SIZES GREATER THAN 300mm ALTERNATIVE JOINTING MAY BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.

(c) UNPLASTICISED PVC PIPES (UPVC)

(1) WITHIN PROPERTY:
ALL UPVC PIPES SHALL CONFORM TO AS 2032 'CODE PRACTISE FOR THE INSTALLATION OF UPVC PIPES' PART 7 AND SHALL BE CLASS 6 SEWER QUALITY OR HEAVY DUTY STORMWATER DEPENDING ON APPLICATION.
ALL JOINTING PROCEDURES SHALL CONFORM TO AS 2032 PART 3 AND SHALL BE EITHER SOLVENT WELDED OR RUBBER RING JOINTS.

(2) WITHIN ROAD RESERVE:

ALL UPVC PIPES SHALL CONFORM TO AS 1260 'UNPLASTICISED P.V.C (UPVC) PIPES AND FITTING FOR SEWERAGE APPLICATIONS' PARTS 1 TO 5 AND SHALL BE CLASS S.H PIPES

C18. COVER DETAILS.

LOCATION	MINIMUM PIPE COVER	
	CAST IRON DUCTILE IRON GALVANIZED STEEL	OTHER AUTHORISED PRODUCTS
1. NOT SUBJECT TO VEHICULAR LOADING a) WITHOUT PAVEMENT i) FOR SINGLE DWELLING ii) FOR OTHER THAN ITEM b) WITH PAVEMENT OF BRICK OR UNREINFORCED CONCRETE	NIL NIL NIL	100 300 50+
2. SUBJECT TO VEHICULAR LOADING a) OTHER THAN ROADS i) WITHOUT PAVEMENT ii) REINFORCED CONCRETE FOR HEAVY VEHICULAR LOADING b) BRICK OR UNREINFORCED CONCRETE FOR LIGHT VEHICULAR LOADING	300 NIL+	450 100+
3. SUBJECT TO CONSTRUCTION EQUIPMENT LOADING OR IN EMBANKMENT CONDITIONS a) SEaled b) UNSEaled	300 300	500# 500#
3. SUBJECT TO CONSTRUCTION EQUIPMENT LOADING OR IN EMBANKMENT CONDITIONS	300	500#

INCLUDES A DEPTH OF OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK + BELOW THE UNDERSIDE OF THE PAVEMENT
+ SUBJECT TO COMPLIANCE WITH AS 1762 ASINZS 2566.1, AS 3725 OR 4060 FOR SITE STORMWATER UNDER BUILDINGS.
a) THE THICKNESS OF OVERLAY BETWEEN THE TOP OF THE PIPE AND THE UNDERSIDE OF A REINFORCED CONCRETE SLAB SHALL BE NOT LESS THAN 25mm AND
b) THERE SHALL BE ADEQUATE PROTECTION FROM MECHANICAL DAMAGE WHERE MINIMUM COVER REQUIREMENTS CANNOT BE ACHIEVED THE PIPE SHALL BE ENCASED WITH A MINIMUM OF 100mm THICK CONCRETE (c=20MPa)

C19. WHERE A DRAIN IS LAID PARALLEL TO A FOOTING IT IS TO BE LOCATED SUCH THAT THE BASE OF ANY OF THE TRENCH IS NOT BELOW THE LINE OF INFLUENCE OF THE FOOTING WHICH IS 1H : 1V IN CLAY OR 2H : 1V IN SAND SOILS.

C20. ALL DRAINAGE EXCAVATIONS ARE TO BE BACKFILLED WITH A SUITABLE APPROVED MATERIAL UNDER SEALED PAVEMENTS AND BUILDING SLABS. THIS SHALL BE DOB20 BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY OF NOT LESS THAN 95% OF THE MODIFIED COMPACTION TEST AS 1289.5.2.1

C21. CONCRETE FOR KERBS SHALL BE 32MPa STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS 1379-1991.

C22. ALL PIPING THAT PENETRATES A FOOTING/STRUCTURE IS TO BE LAGGED WITH A COMPRESSIBLE MATERIAL, 50mm MINIMUM.

C23. CONTRACTOR / BUILDER IS TO COMPLETE ALL LINE MARKINGS AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS UNLESS NOTED OTHERWISE.

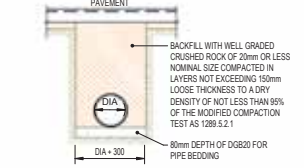
C24. REFER TO ARCHITECT FOR SET OUT OF LINE MARKING.
ALL LINE MARKING TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AUTHORITY REQUIREMENT OR VICROADS SPECIFICATIONS.

C25. CONTRACTOR / BUILDER SHALL ALLOW FOR AND OBTAIN ALL NECESSARY AUTHORITY APPROVALS AND PERMITS.

C26. UNLESS NOTED OTHERWISE, ALL PAVEMENT CONSTRUCTION TO FOLLOW THE RELEVANT VICROADS OR LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.

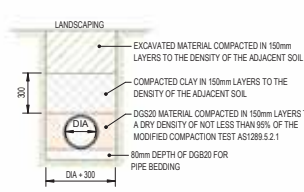
DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS (mm)		
	RECTANGULAR WIDTH	LENGTH	CIRCULAR DIAMETER
<600	450	450	600
>600 <800	600	600	900
>800 <1200	600	900	1000
>1200	900	900	1000

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS



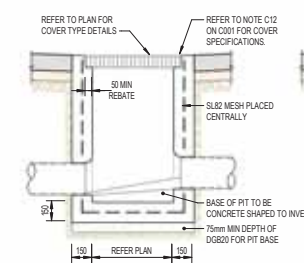
PIPE LAYING DETAIL - PAVED AREAS

NOTES:
1. IN REACTIVE SOILS OR WHERE TRENCH IS NEAR FOUNDATIONS, CLAY OR IMPERVIOUS MATERIAL SHALL BE USED AS BACKFILL, WHERE POSSIBLE, MAINTAIN 15mm HORIZONTAL CLEARANCE FROM BUILDINGS.
2. FOR REINFORCED CONCRETE PIPES IF DIAMETER GREATER THAN 300mm, USE A BEDDING DEPTH OF 100mm OF 20mm OR LESS NOMINAL SIZE DOB20.
3. ALL TRENCHES OVER 1.5m DEPTH TO BE IN ACCORDANCE WITH THE CH&S (CONFINED SPACES) REGULATIONS AND THE CODE OF PRACTISE FOR CONFINED SPACES.



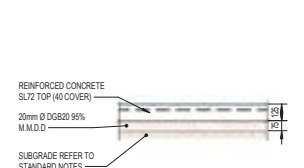
PIPE LAYING DETAIL - LANDSCAPE AREAS

NOTES:
1. IN REACTIVE SOILS OR WHERE TRENCH IS NEAR FOUNDATIONS, CLAY OR IMPERVIOUS MATERIAL SHALL BE USED AS BACKFILL, WHERE POSSIBLE, MAINTAIN 15mm HORIZONTAL CLEARANCE FROM BUILDINGS.
2. FOR REINFORCED CONCRETE PIPES IF DIAMETER GREATER THAN 300mm, USE A BEDDING DEPTH OF 100mm OF 20mm OR LESS NOMINAL SIZE DOB20.
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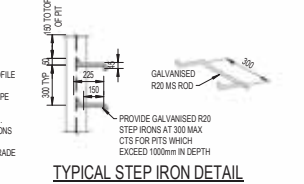
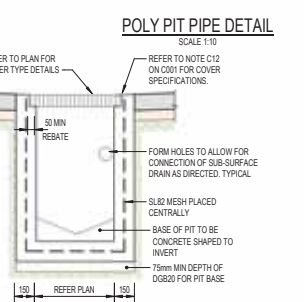
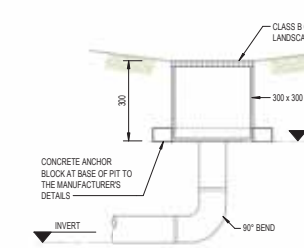
GRADED PIT DETAIL (JUNCTION PIT SIMILAR)

NOTES:
1. ALL GRATED LIDS ARE TO BE FABRICATED TO SUIT INVERT PROFILE OF PAVEMENT OR ROAD.
2. ALL JUNCTION PIT LIDS TO BE CAST IRON, CONCRETE INFILL TYPE UNLESS NOTED OTHERWISE.
3. REFER TO PIT SCHEDULE OR PLAN FOR TYPE AND DIMENSIONS.
4. FOR PITS GREATER THAN 1000mm IN DEPTH, PROVIDE STEP IRONS AT 300mm CTS AS PER DETAIL ON THIS DRAWING.
5. CONCRETE TO BE NORMAL CLASS 32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379 EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
6. TYPICAL PIT DETAIL ONLY. REFER RELEVANT AUTHORITY STANDARD DRAWINGS FOR FURTHER INFORMATION.

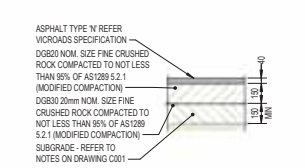


LIGHT DUTY CONCRETE PROFILE DETAIL

NOTES:
1. CONCRETE STRENGTH = 32MPa UNO.
2. ALL PAVING SLABS TO HAVE RE-ENTRANT REINFORCEMENT AS PER STANDARD RE-ENTRANT BAR REINFORCEMENT DETAILS.
3. LOCATE JOINTS AT 4000 MAX CTS.
4. SAWCUTS ARE TO BE MADE 24 HOURS OF SLAB BEING POURED.
5. IF THE SLAB IS TO BE POURED IN MORE THAN ONE STAGE, THEN A DOWEL JOINT SHALL BE PROVIDED AT THE CONSTRUCTION JOINTS 24 HOURS TO ELAPSE BETWEEN POLES OF ADJACENT SLABS.
6. SLAB SUB-GRADE TO BE PROOF ROLLED TO ENSURE MIN CBR 3. ANY SOFT SPOT TO BE DUG OUT AND REPLACED WITH CRUSHED ROCK COMPACTED 150mm LAYERS.
7. MIN 40mm COVER FOR REINFORCEMENT.
8. CONCRETE TO HAVE STRENGTH < 32MPa UNLESS NOTED OTHERWISE.



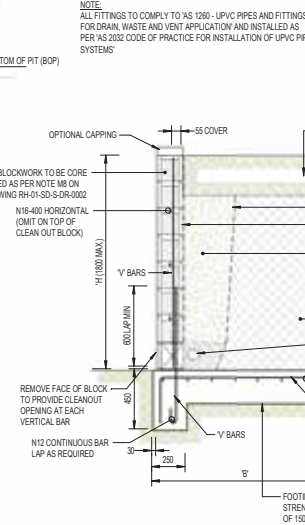
TYPICAL STEP IRON DETAIL



MEDIUM DUTY ASPHALT PAVEMENT DETAIL

NOTES:
1. ALL FITTINGS TO COMPLY TO AS 1260 - UPVC PIPES AND FITTINGS FOR DRAIN, WASTE AND VENT APPLICATION AND INSTALLED AS PER AS 2032 CODE OF PRACTICE FOR INSTALLATION OF UPVC PIPE SYSTEMS.

FLOOR WASTE / INSPECTION OPENING DETAIL



RW1 BLOCK RETAINING WALL DETAIL - 1.8m MAX HIGH

HEIGHT 'H'(mm)	BASE 'B'(mm)	BLOCK TYPE	'V' BARS	'X' BARS
1200	1000	190 'Y' BLOCKS	N16-400	N16-300
1800	1400	190 'Y' BLOCKS	N20-400	N16-300

NOTE:
1. BLOCK RETAINING WALLS HAVE BEEN DESIGNED FOR 90% SURCHARGE.
2. ALL BLOCK WALLS TO BE CORED FILLED WITH 20MPa CONCRETE, 10mm MAX AGGREGATE SIZE, 250mm SLUMP.
3. STARTER BARS TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCEMENT.
4. LAP HORIZONTAL BARS 600 UNO.

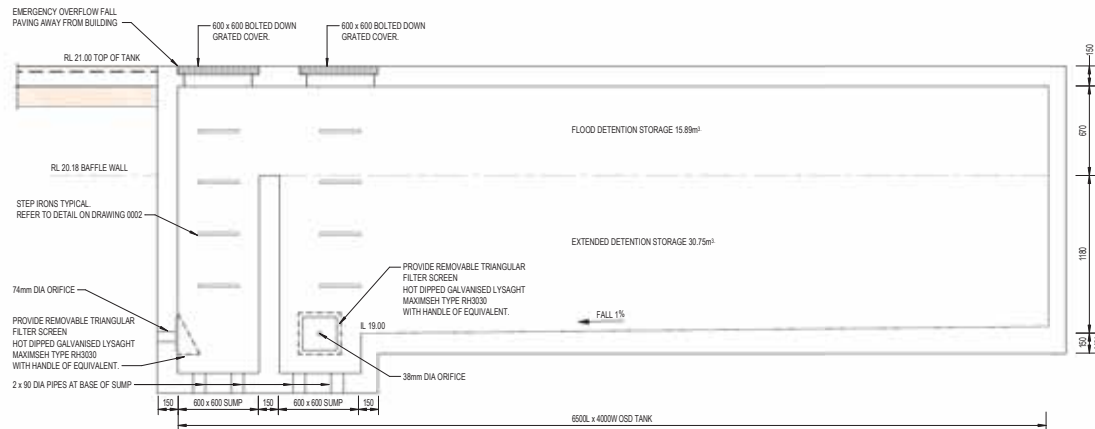
EXISTING	NEW	ITEM
ES.99	P99.99	LEVEL
ES.99	TK99.99	TOP OF KERB LEVEL
EW.99	TW99.99	TOP OF WALL LEVEL
EP.99	TP99.99	TOP OF PIT LEVEL
EL.99	IL99.99	INVERT LEVEL
E99.99	P99.99	INTERMEDIATE CONTOURS
E100.00	P100.00	MAIN CONTOURS
ES.99	GRADE	STORMWATER DRAIN SHOWING DIRECTION OF FLOW
ES.99	GP	DOWNPIPE
EGP	GP	JUNCTION PIT
ESEP	SEP	GRADED PIT
EPP	GP	SIDE ENTRY PIT
ETD	SD	300 x 300 AGC HOME DRAIN OR EQUIVALENT
ESD	SD	GRADED TRENCH DRAIN
ESD	SD	SPOON DRAIN
EK	K	AGI PIPES
EKC	KC	BARRIER KERB
EKC	KC	BARRIER KERB AND CHANNEL
ERW	RW	RETAINING WALL
ES.99	GP	BUILDING FOOTPRINT



DIAL 1100 DIAL BEFORE YOU DIG

CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS

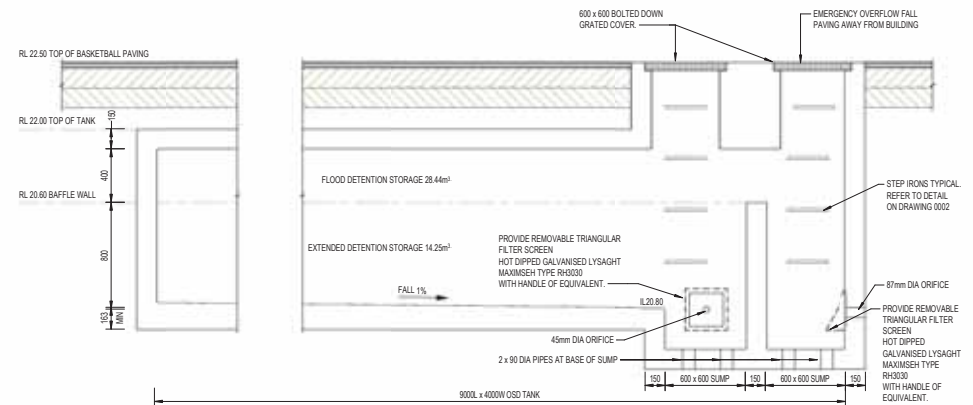
PRELIMINARY



OSD TANK 1 TYPICAL SECTION
SCALE 1:20

ON-SITE DETENTION INFORMATION
TOTAL DETENTION 46.64m³
OSD TANK STRUCTURAL DETAIL TO STRUCTURAL ENGINEERS SPECIFICATIONS

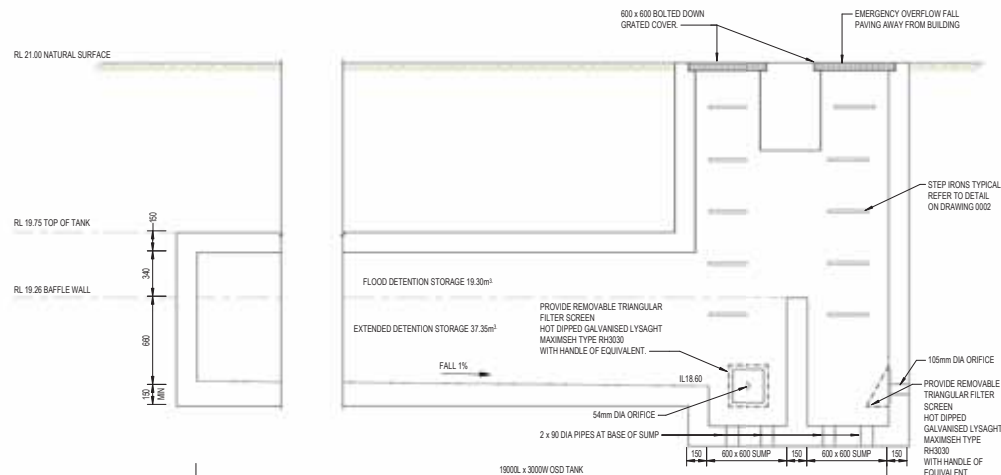
- NOTES:**
1. DETENTION CHAMBER / OUTLET CHAMBER WILL VARY ACCORDING TO PIPE SIZES USED FOR STORAGE. MINIMUM SIZE IS 600 x 600, UNLESS BAFFLE WALL HEIGHT IS < 700, THEN MINIMUM OUTLET CHAMBER CAN BE REDUCED TO 450 x 450.
 2. STORAGE PIPE SIZE WILL VARY ACCORDING TO THE VOLUME REQUIREMENTS OF THE SITE. IF REINFORCED CONCRETE OR FIBER REINFORCED CONCRETE PIPES ARE USED, THEY SHALL BE RUBBER RING JOINTED. OTHER PIPE TYPES MUST BE APPROVED BY THE COUNCIL ENGINEER.
 3. STEP IRONS (S136) SHALL BE FITTED TO PITS GREATER THAN 1000mm IN DEPTH. AS PER DETAIL ON THIS DRAWING.
 4. PITS GREATER THAN 1000mm IN DEPTH ARE TO BE REINFORCED WITH F81 SQUARE MESH, PLACED CENTRALLY IN PIT WALLS.
 5. MINIMUM ALLOWABLE ORIFICE DIAMETER SHALL BE 40mm.
 6. MEDIUM DUTY CAST IRON COVERS ARE TO BE USED IN TRAFFICABLE AREAS. ALTERNATIVE GRATE AND FRAME TOP MAY BE USED IN CERTAIN CIRCUMSTANCES AND MUST BE APPROVED BY COUNCIL ENGINEER.
 7. IF TWO OR MORE ROWS OF PIPES ARE USED FOR STORAGE, A MINIMUM GAP OF 150mm IS REQUIRED BETWEEN THE PIPES.



OSD TANK 2 TYPICAL SECTION
SCALE 1:20

ON-SITE DETENTION INFORMATION
TOTAL DETENTION 43.23m³
OSD TANK STRUCTURAL DETAIL TO STRUCTURAL ENGINEERS SPECIFICATIONS

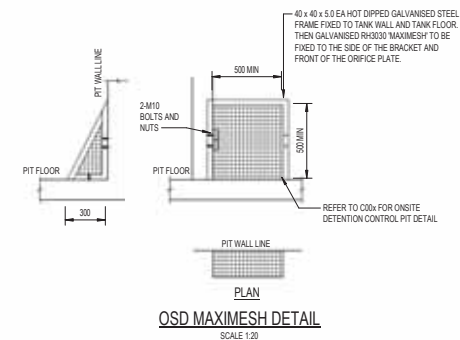
- NOTES:**
1. DETENTION CHAMBER / OUTLET CHAMBER WILL VARY ACCORDING TO PIPE SIZES USED FOR STORAGE. MINIMUM SIZE IS 600 x 600, UNLESS BAFFLE WALL HEIGHT IS < 700, THEN MINIMUM OUTLET CHAMBER CAN BE REDUCED TO 450 x 450.
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 4. PITS GREATER THAN 1000mm IN DEPTH ARE TO BE REINFORCED WITH F81 SQUARE MESH, PLACED CENTRALLY IN PIT WALLS.
 5. MINIMUM ALLOWABLE ORIFICE DIAMETER SHALL BE 40mm.
 6. MEDIUM DUTY CAST IRON COVERS ARE TO BE USED IN TRAFFICABLE AREAS. ALTERNATIVE GRATE AND FRAME TOP MAY BE USED IN CERTAIN CIRCUMSTANCES AND MUST BE APPROVED BY COUNCIL ENGINEER.
 7. IF TWO OR MORE ROWS OF PIPES ARE USED FOR STORAGE, A MINIMUM GAP OF 150mm IS REQUIRED BETWEEN THE PIPES.



OSD TANK 3 TYPICAL SECTION
SCALE 1:20

ON-SITE DETENTION INFORMATION
TOTAL DETENTION 56.65m³
OSD TANK STRUCTURAL DETAIL TO STRUCTURAL ENGINEERS SPECIFICATIONS

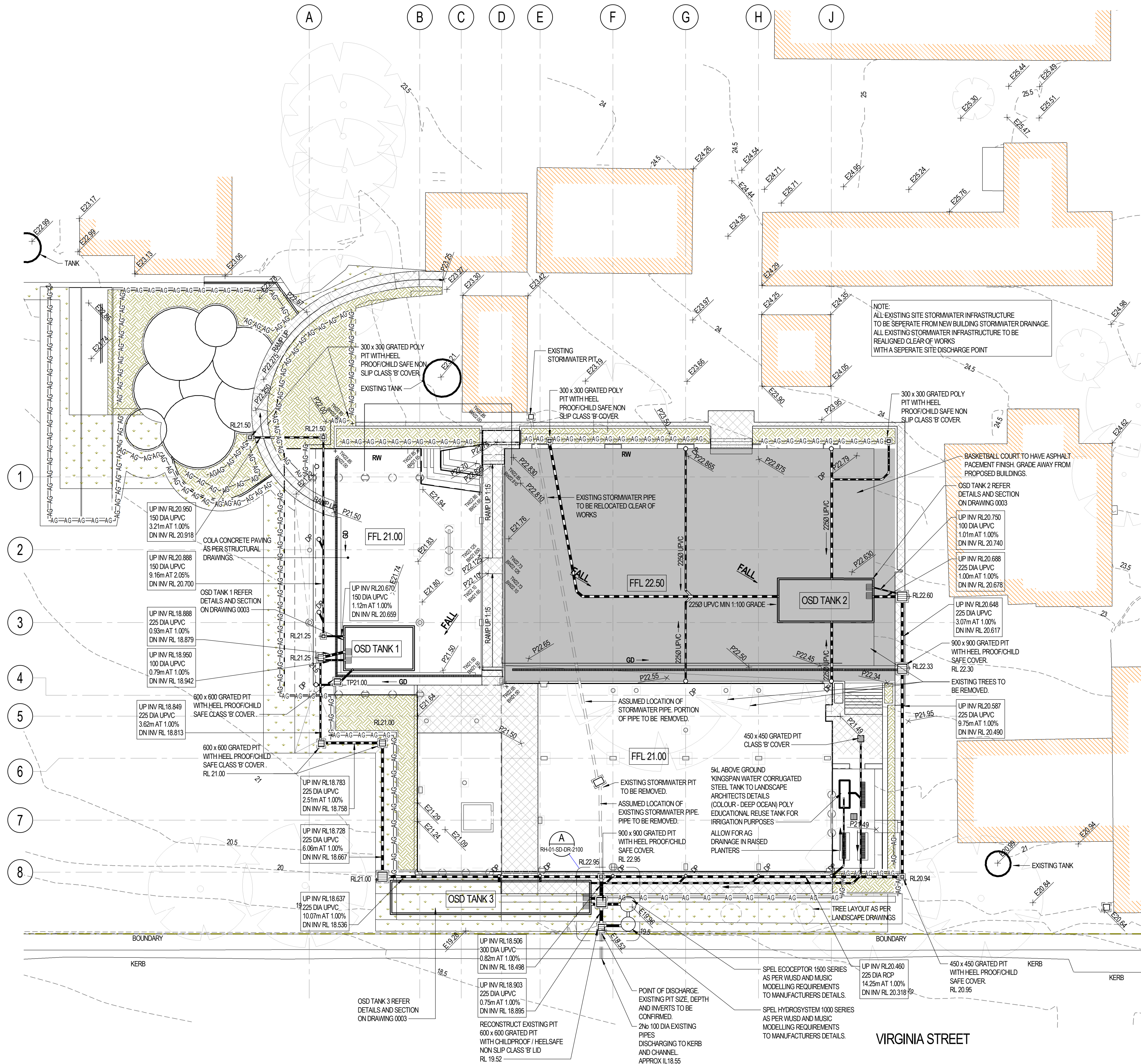
- NOTES:**
1. DETENTION CHAMBER / OUTLET CHAMBER WILL VARY ACCORDING TO PIPE SIZES USED FOR STORAGE. MINIMUM SIZE IS 600 x 600, UNLESS BAFFLE WALL HEIGHT IS < 700, THEN MINIMUM OUTLET CHAMBER CAN BE REDUCED TO 450 x 450.
 2. STORAGE PIPE SIZE WILL VARY ACCORDING TO THE VOLUME REQUIREMENTS OF THE SITE. IF REINFORCED CONCRETE OR FIBER REINFORCED CONCRETE PIPES ARE USED, THEY SHALL BE RUBBER RING JOINTED. OTHER PIPE TYPES MUST BE APPROVED BY THE COUNCIL ENGINEER.
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 5. MINIMUM ALLOWABLE ORIFICE DIAMETER SHALL BE 40mm.
 6. MEDIUM DUTY CAST IRON COVERS ARE TO BE USED IN TRAFFICABLE AREAS. ALTERNATIVE GRATE AND FRAME TOP MAY BE USED IN CERTAIN CIRCUMSTANCES AND MUST BE APPROVED BY COUNCIL ENGINEER.
 7. IF TWO OR MORE ROWS OF PIPES ARE USED FOR STORAGE, A MINIMUM GAP OF 150mm IS REQUIRED BETWEEN THE PIPES.



OSD MAXIMESH DETAIL
SCALE 1:20

- NOTES:**
1. MESH TO BE MAXIMESH RH3030 (OR EQUIVALENT) EXPANDED STEEL MESH, GALVZINC COATED.
 2. MESH TO BE AFFIXED TO 40 x 40 x 5 EA SECTION BY 2 x 10mm GALVZINCOSS NUT AND BOLT. BOLTS TO BE WELDED IN PLACE SO AS TO BE RETAINED ON ANGLE SECTION.
 3. EQUAL ANGLE SECTIONS TO BE MIN LENGTH 300mm FIXED TO PIT WALLS.

PRELIMINARY



LEGEND

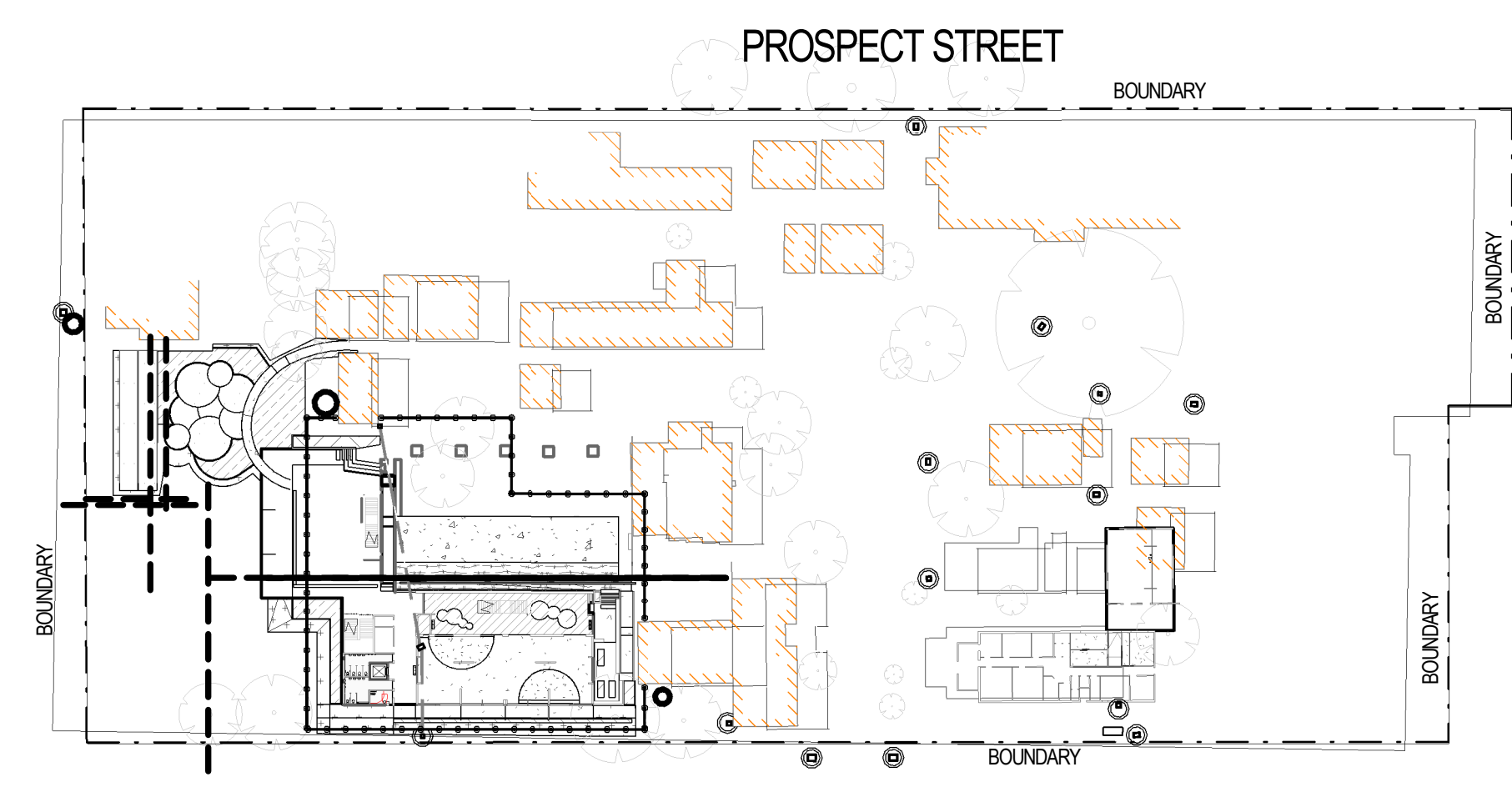
AG 1000 AGRICULTURE DRAIN

DP 1500 DOWNPIPE

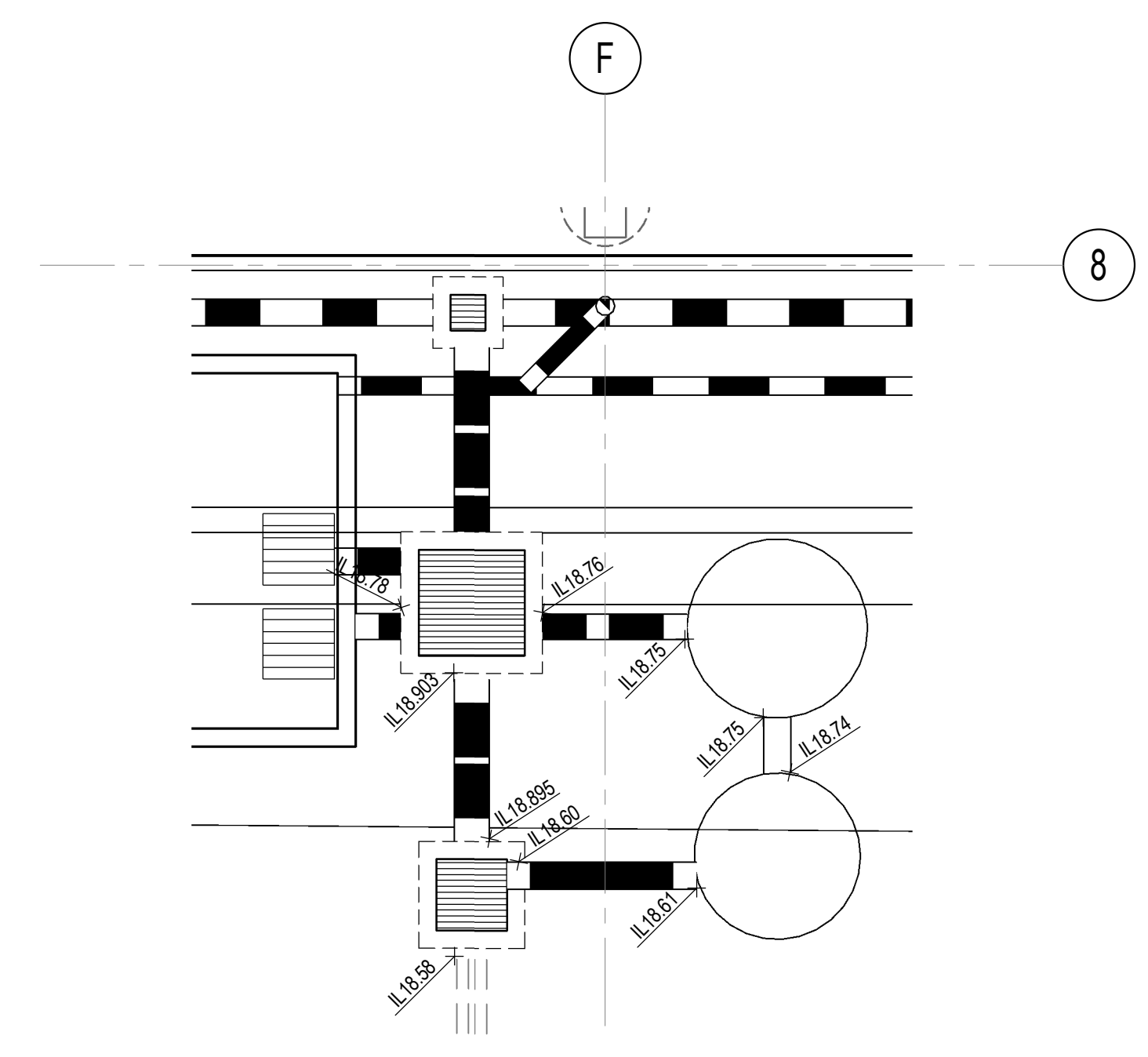
GD GRATED TRENCH DRAIN TO ARCHITECTS SPECIFICATIONS

CONCRETE PAVEMENT, REFER TO DETAIL ON 0002

ASPHALT PAVEMENT, REFER TO DETAIL ON 0002



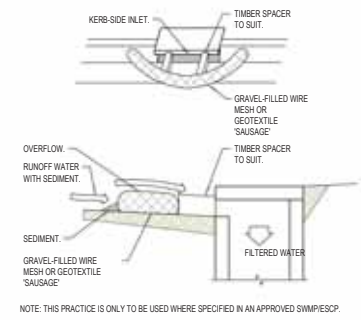
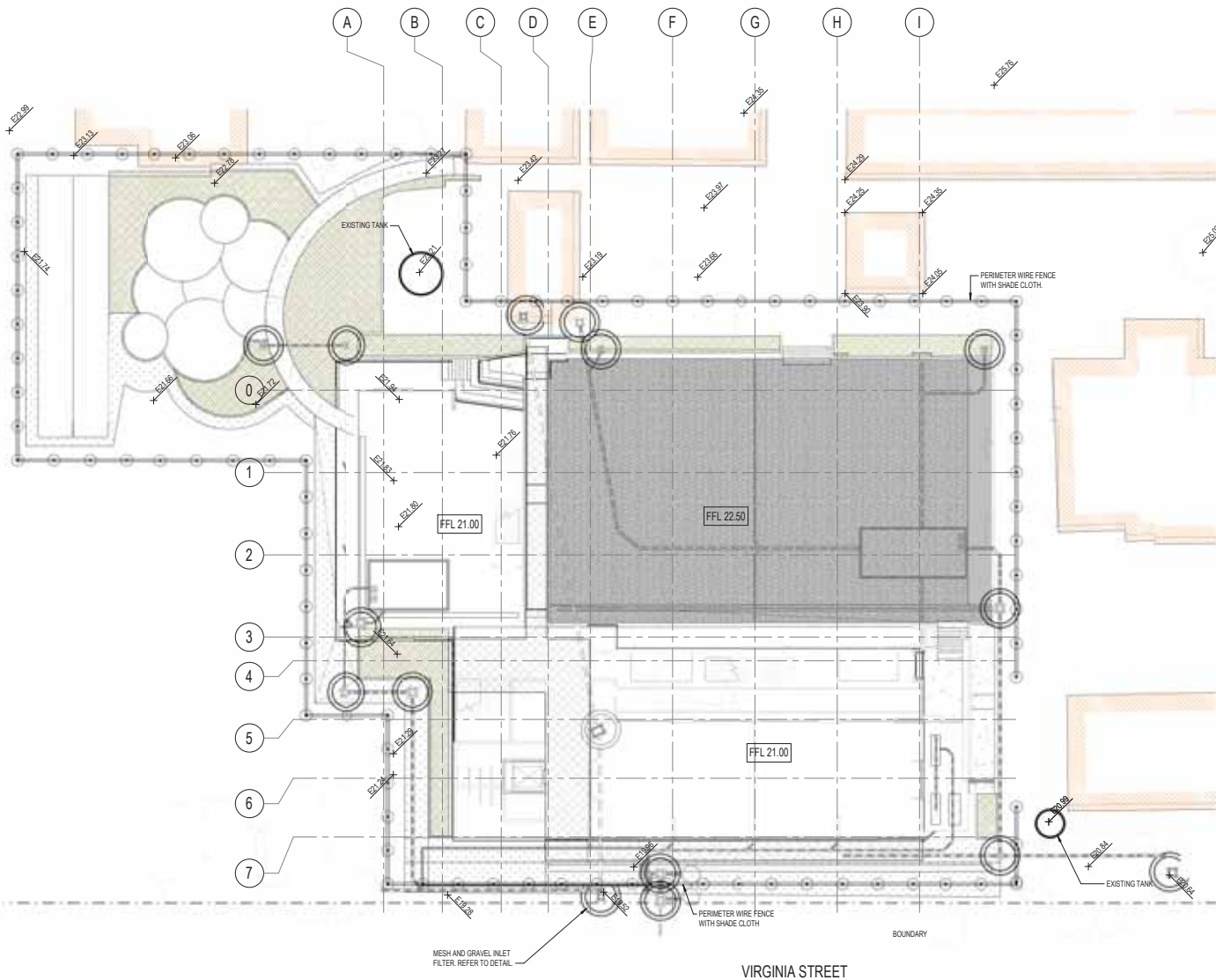
SITE KEY PLAN
SCALE 1:1000



DETAIL A
1:50
RH-01-SD-DR-2100

SITE STORMWATER PLAN
SCALE 1:200

FOR TENDER



NOTE: THIS PRACTICE IS ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT.
2. FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY.
5. MAINTAIN THE OPENING WITH SPACER BLOCKS.
6. FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER.
7. FIT TO ALL KERB INLETS AT SAG POINTS.

MESH AND GRAVEL INLET FILTER
NOT TO SCALE

SILT CONTROL NOTES:

1. THIS PLAN HAS BEEN DEVELOPED AS A GUIDE TO DEMONSTRATE THE POSSIBLE DEVICES REQUIRED UNDER A SOIL AND WATER MANAGEMENT PLAN (SWMP).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE ESTABLISHMENT ON GOING MAINTENANCE AND OPERATION OF THE SWMP IN ACCORDANCE WITH THE NSW HOUSING'S MANAGING URBAN STORMWATER DOCUMENT (BLUE BOOK).
3. PRIOR TO ANY CLEARING OR EXCAVATION OF THE PROJECT SITE, A TEMPORARY SEDIMENT TRAP ARRANGEMENT SHALL BE MADE TO ENSURE TO THE CAPTURE OF ANY WATER BORNE MATERIAL GENERATED FROM THE SITE.
4. PROVIDE SEDIMENT FENCE AS SHOWN ON PLAN.
5. PROVIDE TEMPORARY CONSTRUCTION EXIT PAD TO PREVENT TRANSMISSION OF SOIL FROM TRUCK TYRES TO PUBLIC ROADS AND DRAINAGE.
6. THE SILTATION PROTECTION DESCRIBED ABOVE SHALL BE MAINTAINED DURING THE COURSE OF CONSTRUCTION. NEWLY CONSTRUCTED PITS SHALL BE PROTECTED FROM ANY SEDIMENT ENTRY, ONCE IN PLACE, NO SILTATION PROTECTION SHALL BE REMOVED WITHOUT COUNCIL APPROVAL.
7. ALL DISTURBED AREAS ARE TO BE STABILIZED UPON COMPLETION OF THE WORKS.
8. THE BUILDER SHALL ENSURE THAT ALL SUB-CONTRACTORS, DRIVERS OF DELIVERY VEHICLES AND OTHERS INVOLVED IN THE WORKS, ARE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION OF DOWN SLOPE AREAS, DRAINS AND WATERWAYS.

PROSPECT STREET



SITE KEY PLAN
SCALE 1 : 1000

EROSION AND SEDIMENT CONTROL PLAN ZONE 1
SCALE 1 : 200