

# SMALLS ROAD PUBLIC SCHOOL

DEVELOPMENT APPLICATION - 3B SMALLS RD, RYDE



@ A1  
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 A ISSUES 29/09/17

DATE

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**CONRAD GARGETT** | ANCHER MORTLOCK WOOLLEY

INTERNAL PROJECT No:  
16321

CLIENT / APPLICANT

**NSW GOVERNMENT** | Education

PROJECT MANAGER

**coffey**  
A TETRA TECH COMPANY

PROJECT  
DoEAMD-16-14 Smalls Road, Ryde Public School

DRAWING  
Cover Sheet

A1 SCALE

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV:  
SR - 01 -SD -AR -000 - A

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Approved Application No. SSD

granted on the 02 NOV 2018

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Sheet No. 1 of 43

Drawing List - Drawing Series (DA)				
Sheet Number	Sheet Name	Current Revision	Revision Description	Current Revision Date
000	Cover Sheet	A	DA ISSUE	29/09/17
1001	Site Analysis & Context Plan	B	DA ISSUE	29/09/17
1002	Streetscape Character Analysis	A	DA ISSUE	29/09/17
1003	Existing Site & Demolition Plan	E	DA ISSUE	18/10/17
1004	Proposed Site Plan	P	DA ISSUE	29/09/17
2100	Ground Floor Plan	L	DA ISSUE	29/09/17
2110	Level One Plan	L	DA ISSUE	29/09/17
2120	Level Two Plan	L	DA ISSUE	29/09/17
2130	Roof Plan	C	DA ISSUE	29/09/17
2903	Shadow Diagram	B	DA ISSUE	29/09/17
2920	ARTIST IMPRESSION - SMALLS RD ENTRY	A	DA ISSUE	29/09/17
2921	ARTIST IMPRESSION - SOUTH ELEVATION	A	DA ISSUE	29/09/17
2923	VIEW ANALYSIS	A	DA ISSUE	18/10/17
2924	VIEW ANALYSIS	A	DA ISSUE	18/10/17
3000	Elevations	C	DA ISSUE	29/09/17
3010	Signage Details	A	DA ISSUE	29/09/17
3100	Sections	F	DA ISSUE	29/09/17





Context Analysis



Site Analysis

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coffey  
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 DoEAMD-16-14 Smalls Road, Ryde Public School

DRAWING  
 Site Analysis & Context Plan



A1 SCALE



**SMALLS ROAD**



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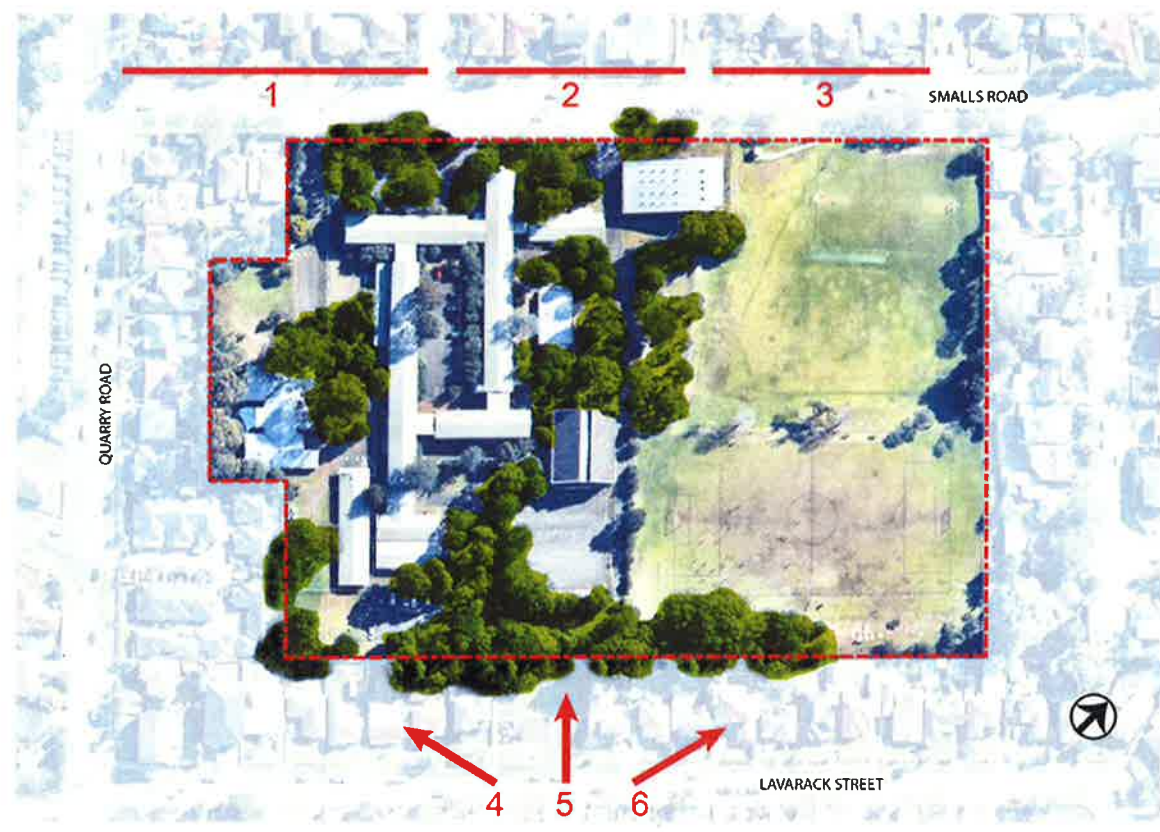
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Sheet No. 3 of 43

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**LAVARACK ROAD**



**HENRY DURANT PARK**



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 A DA ISSUE 29/01/17

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DRAWING  
 Streetscape Character Analysis

AT SCALE

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV  
 SR - 01 -SD -AR - 1002 -A



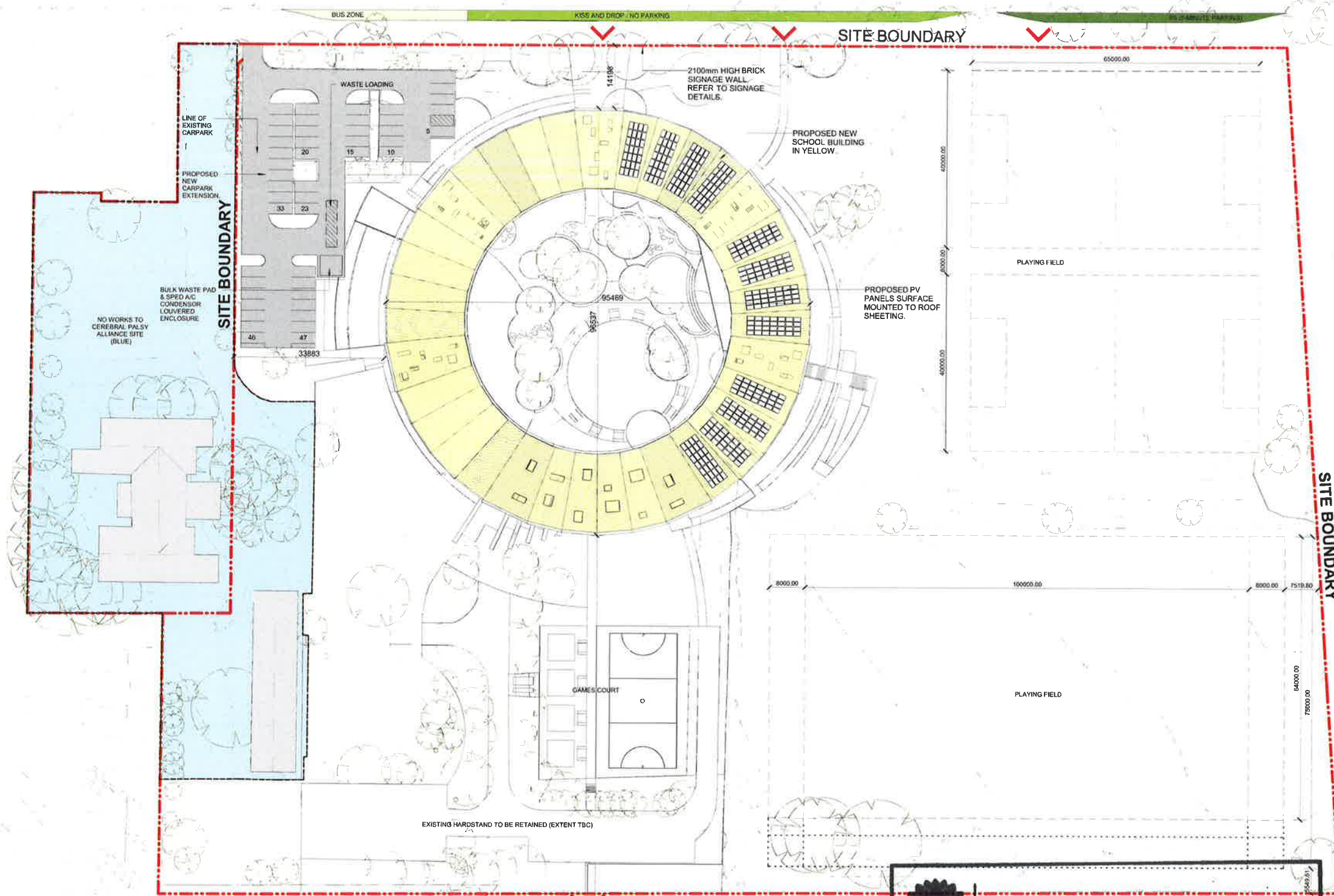




QUARRY ROAD

SMALLS ROAD

LARARACK ROAD



SCALE 1:1 @ A1

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REV	DESCRIPTION	DATE	APPD
A	For Information	11/05/17	
B	For Information	19/05/17	
C	For Costing	17/05/17	
D	For Information	19/06/17	
E	For Costing	19/05/17	
F	For Information	30/06/17	
G	For Information	21/07/17	
H	For Information	24/07/17	
I	For Information	26/07/17	
J	For Information	27/07/17	
K	Parting and Dropoff	15/08/17	
L	Parting and Dropoff	23/08/17	
M	Consultant Issue	13/09/17	
N	Revised Carpark Layout	19/09/17	
O	PRG Meeting	21/09/17	
P	DA ISSUE	29/09/17	

DATE

ARCHITECT



INTERNAL PROJECT No: 16321

CLIENT / APPLICANT



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PROJECT DoEAMD-16-14 Smalls Road, Ryde Public School

DRAWING Proposed Site Plan

A1 SCALE 1: 500

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV: SR - 01 -SD -AR -1004 -P

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Sheet No. **5** of **43**





SITE BOUNDARY

GATE

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SCALE 1:1 @ A1 mm						
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mail@conradgargett.com.au ABN 49 325 121 350						
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NOMINATED ARCHITECT BRUCE WOLFE NSW Reg 1969						
REV	DESCRIPTION	DATE	APPD			
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F	For Information	30/06/17				
G	For Information	21/07/17				
H	For Information	24/07/17				
I	For Information	27/07/17				
J	Consultant Issue	12/08/17				
K	PRG Meeting	21/08/17				
L	DA ISSUE	29/09/17				

SITE BOUNDARY

PROPOSED EXTENSION TO EXISTING CARPARK

34712

PROPOSED LANDSCAPED COURTYARD. REFER TO LANDSCAPE DRAWINGS:

Assembly Area  
AHD 74000

AHD 73000

AHD 73000

AHD 73000

AHD 73000

AHD 73750

AHD 74000

DATE:

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INTERNAL PROJECT No:  
16321

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PROJECT  
DoEAMD-16-14 Smalls Road, Ryde Public School

DRAWING  
Ground Floor Plan

A1 SCALE  
1 : 200

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV:  
SR - 01 -SD -AR -2100 -L

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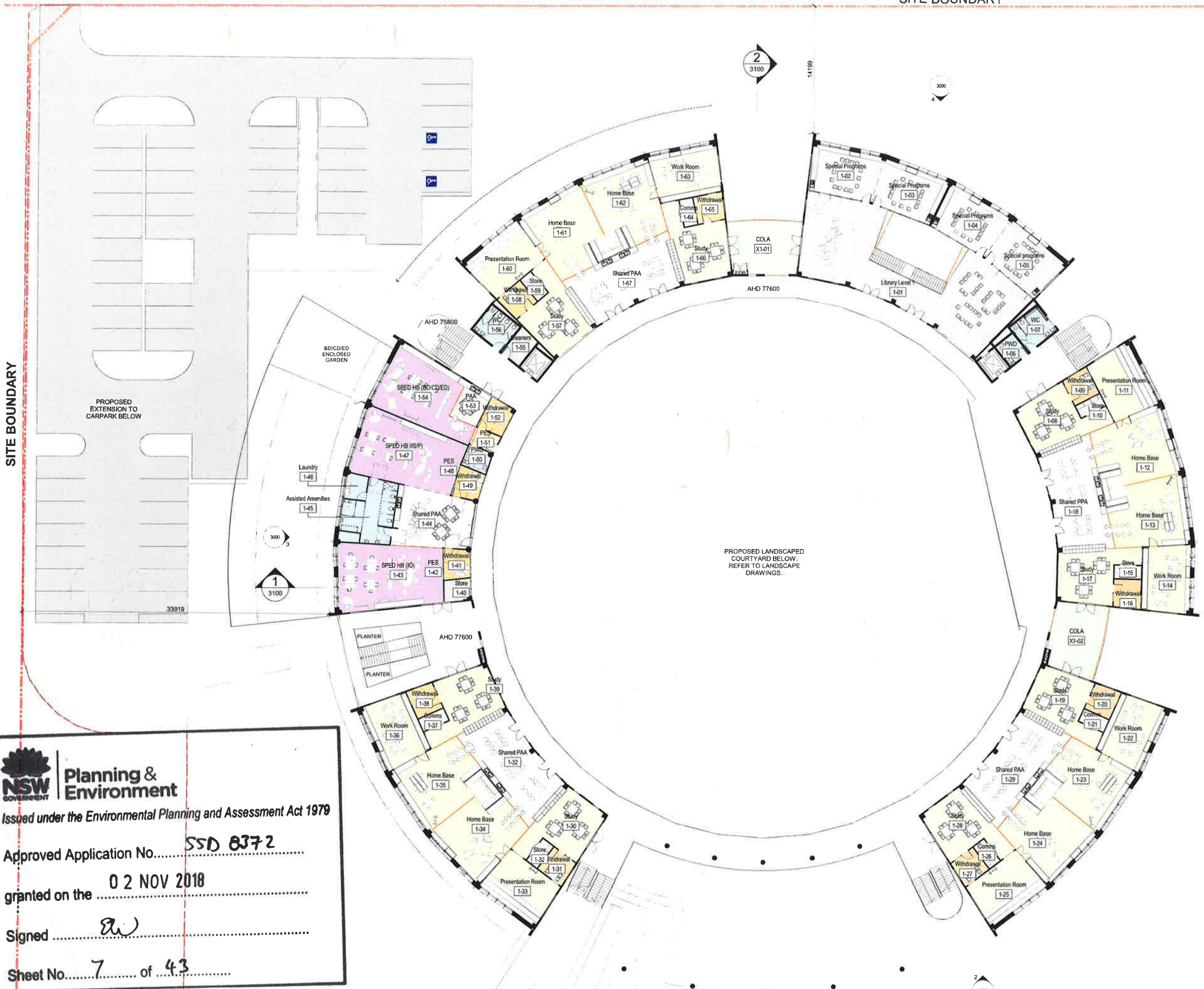
PLAYING FIELD



SITE BOUNDARY

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REV	DESCRIPTION	DATE	APPD
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B	For Information	1505/17	
C	For Coating	1705/17	
D	For Information	1805/17	
E	For Coating	1905/17	
F	For Information	3006/17	
G	For Information	2107/17	
H	For Information	2407/17	
I	For Information	2707/17	
J	Consultant Issue	1209/17	
K	PRG Meeting	2109/17	
L	DA ISSUE	2909/17	



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INTERNAL PROJECT No. **16321**

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PROJECT MANAGER

**coffey**  
A TETRA TECH COMPANY

PROJECT  
**DoEAMD-16-14 Smalls Road, Ryde Public School**

DRAWING  
**Level One Plan**

A1 SCALE  
**1 : 200**

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV  
**SR - 01 -SD -AR -2110 -L**



SITE BOUNDARY

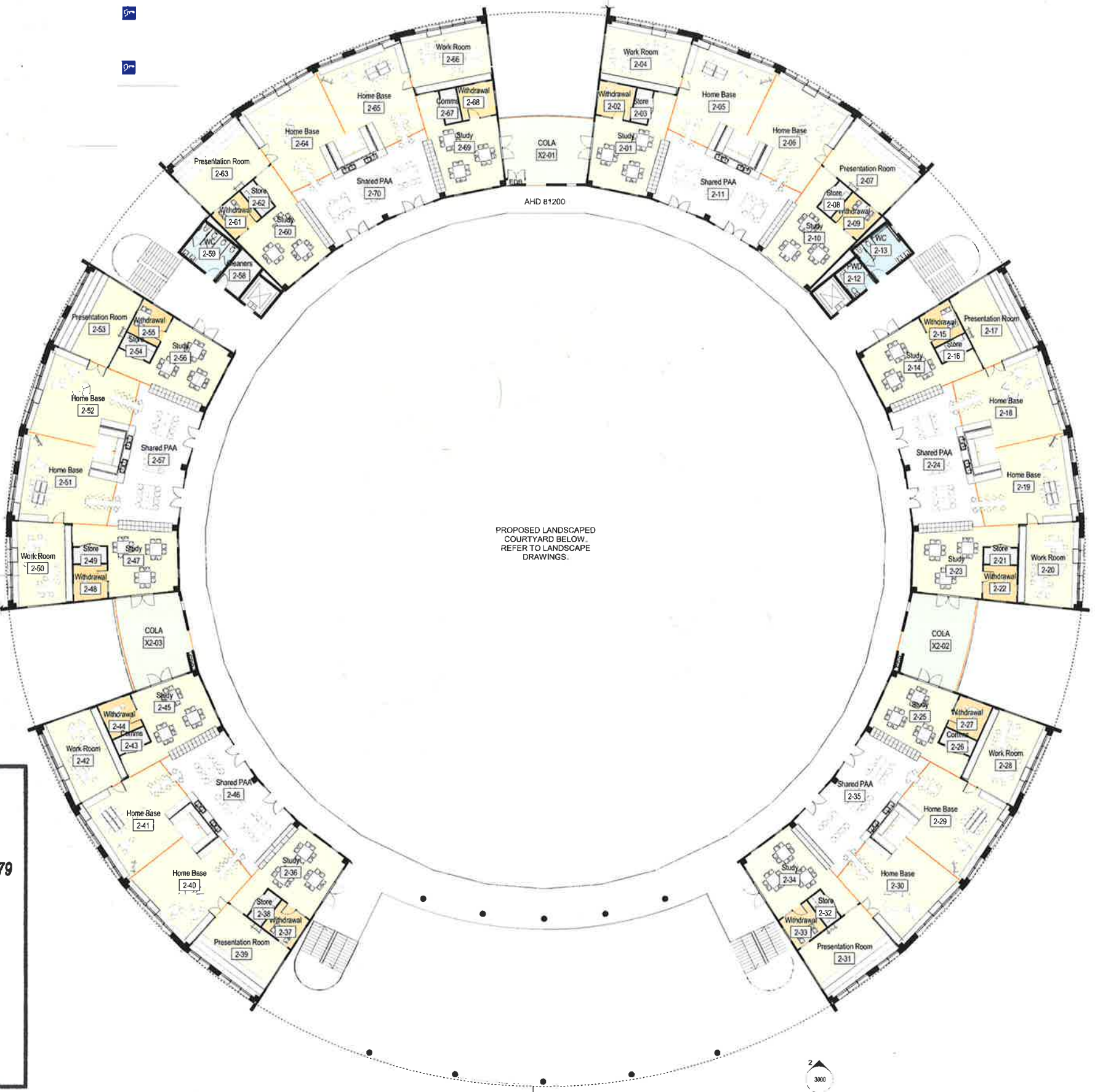
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REV	DESCRIPTION	DATE	APPRO
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F	For Information	20/01/17	
G	For Information	21/01/17	
H	For Information	22/01/17	
I	For Information	23/01/17	
J	Cons.Arch Base	23/01/17	
K	PRC Meeting	24/01/17	
L	DA ISSUE	26/01/17	

SITE BOUNDARY

PROPOSED EXTENSION TO CARPARK BELOW

PROPOSED LANDSCAPED COURTYARD BELOW. REFER TO LANDSCAPE DRAWINGS.



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**coffey**  
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PROJECT **DoEAMD-16-14 Smalls Road, Ryde Public School**

DRAWING **Level Two Plan**

A1 SCALE **1 : 200**

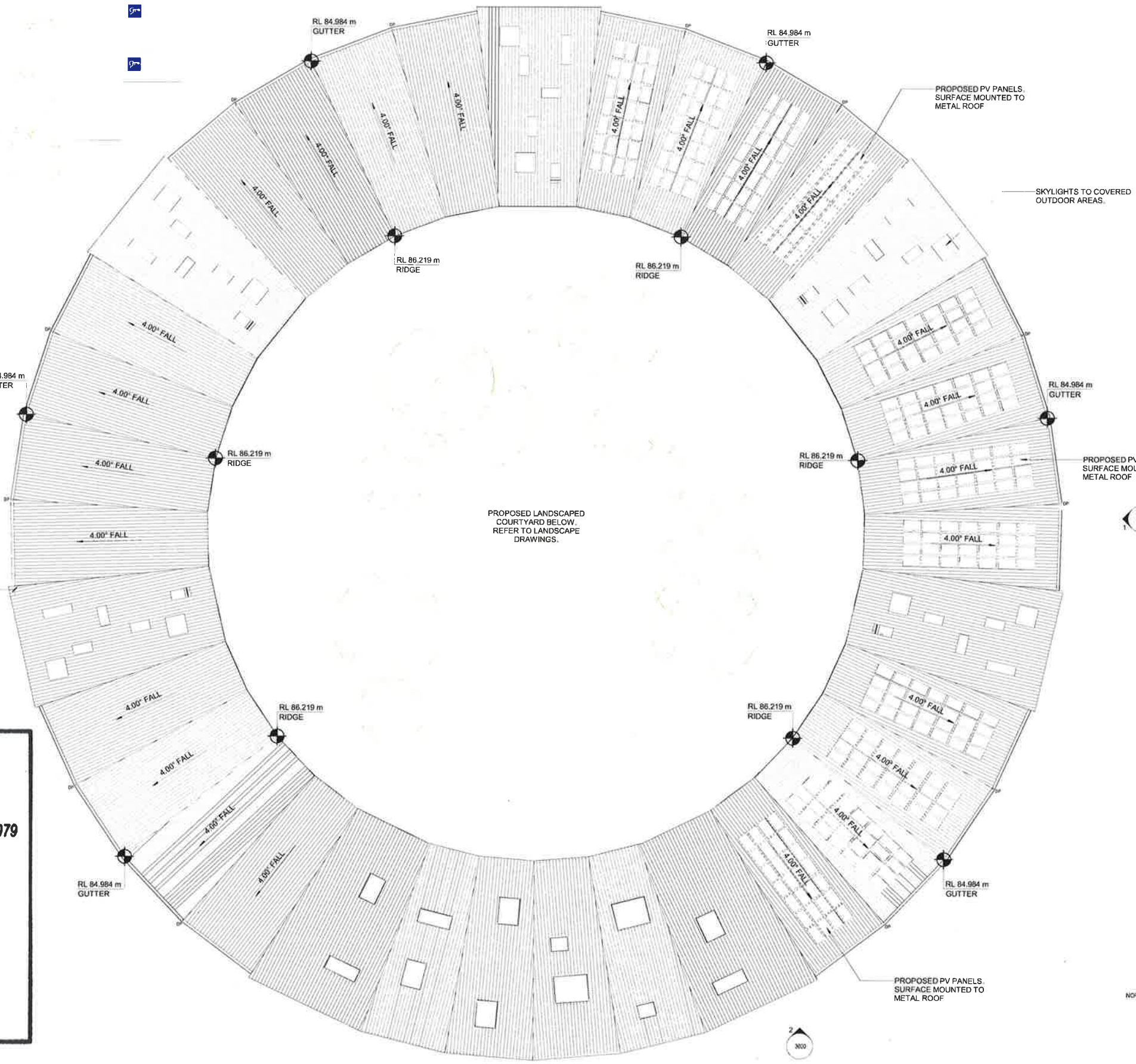
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 REV DESCRIPTION DATE APPD  
 A For Information 290717 130617  
 B Consultant Issue 130617  
 C DA ISSUE 290817

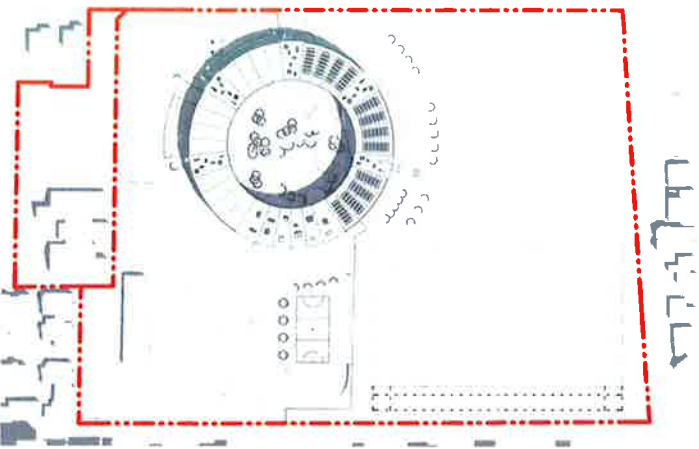
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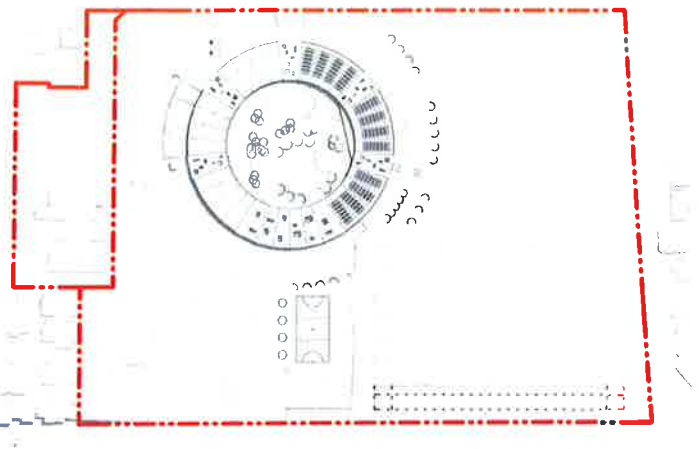
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 PROJECT MANAGER  
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 A TETRA TECH COMPANY  
 PROJECT  
**DoEAMD-16-14 Smalls Road, Ryde Public School**  
 DRAWING  
**Roof Plan**  
 A1 SCALE  
**1:200**  
 SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV  
**SR - 01 - SD - AR - 2130 - C**

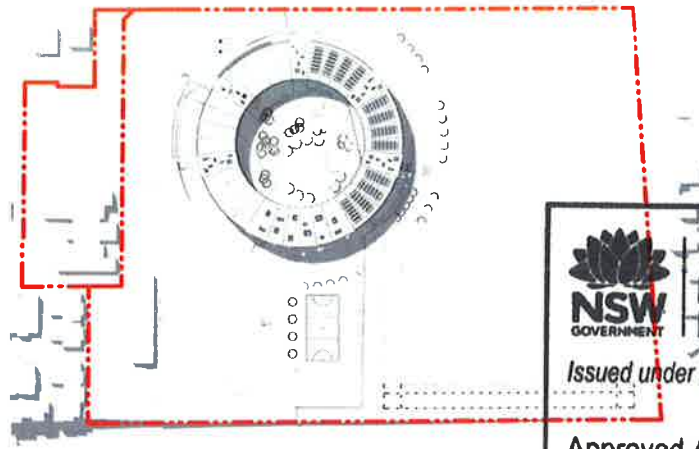




2 Shadow Diagram - Summer Solstice 9am  
 1:1700

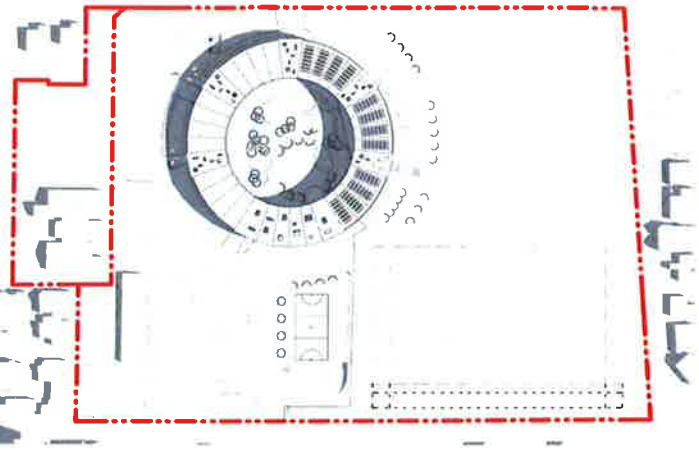


3 Shadow Diagram - Summer Solstice 12pm  
 1:1700

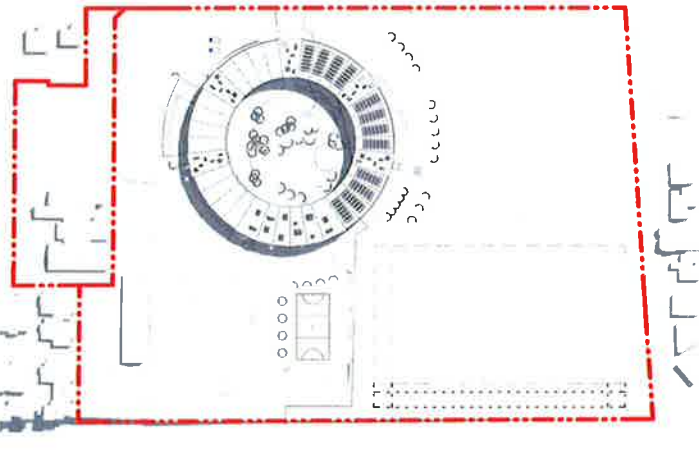


1 Shadow Diagram - Summer Solstice 3pm  
 1:1700

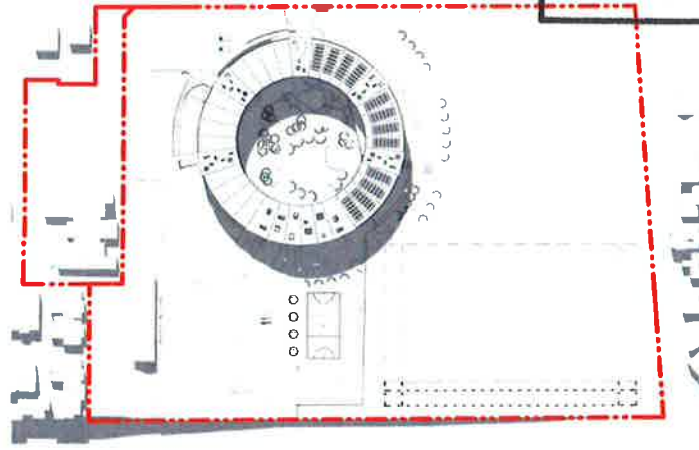
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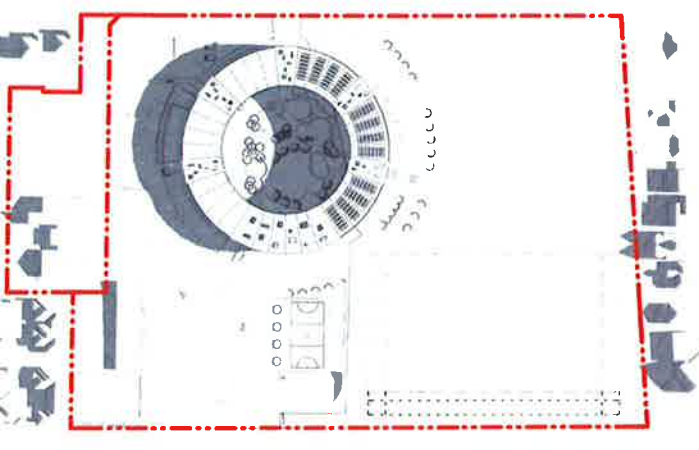
9 Shadow Diagram - Spring Equinox 9am  
 1:1700



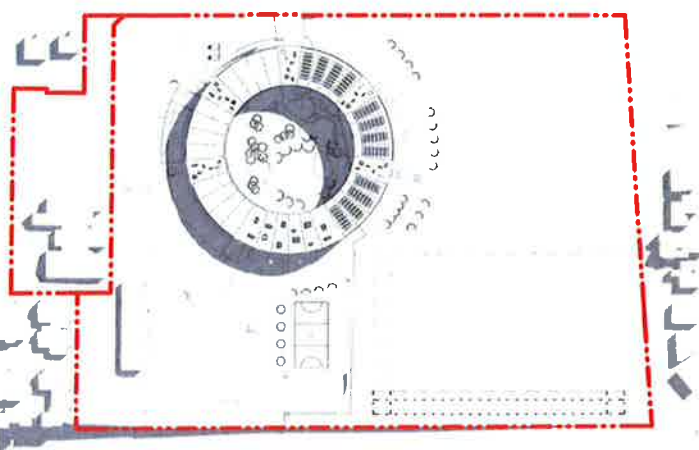
8 Shadow Diagram - Spring Equinox 12pm  
 1:1700



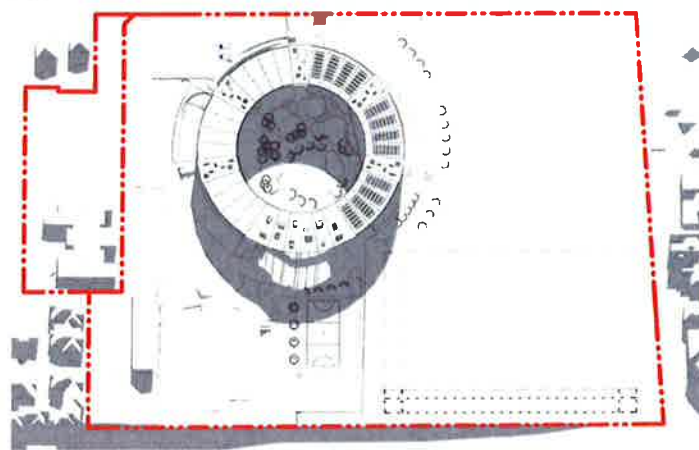
7 Shadow Diagram - Spring Equinox 3pm  
 1:1700



5 Shadow Diagram - Winter Solstice 9am  
 1:1700



6 Shadow Diagram - Winter Solstice 12pm  
 1:1700



4 Shadow Diagram - Winter Solstice 3pm  
 1:1700

DATE

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INTERNAL PROJECT No. 16321

CLIENT / APPLICANT

**NSW GOVERNMENT** Education

PROJECT MANAGER

**coffey**  
 A TETRA TECH COMPANY

PROJECT  
 DoEAMD-16-14 Smalls Road, Ryde Public School

DRAWING  
 Shadow Diagram

A1 SCALE  
 1:1700

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No. REV.  
 SR - 01 - SD - AR - 2903 - B







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PROJECT  
 DoEAMD-16-14 Smalls Road, Ryde Public School

DRAWING  
 ARTIST IMPRESSION - SMALLS RD ENTRY

A1 SCALE

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV  
 SR - 01 -SD -AR -2920 -A

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PROJECT MANAGER



PROJECT  
 DoEAMD-16-14 Smalls  
 Road, Ryde Public  
 School

DRAWING  
 ARTIST IMPRESSION -  
 SOUTH ELEVATION



A1 SCALE

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No REV  
 SR - 01 -SD -AR -2921 -A

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Sheet No... 12 ..... of ..... 43 .....





1 North East Elevation  
2100 1:200



2 South East Elevation  
2100 1:200



3 South West Elevation  
2100 1:200



4 North West Elevation  
2100 1:200

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DRAWING  
Elevations

A1 SCALE  
1:200



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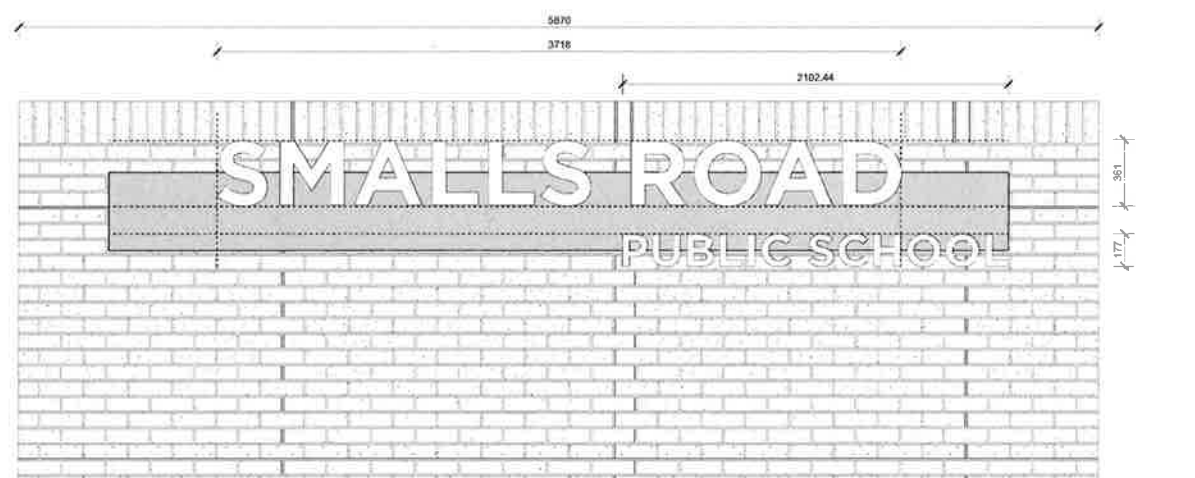
**coffey**  
 A TETRA TECH COMPANY

PROJECT  
**DoEAMD-16-14 Smalls Road, Ryde Public School**

DRAWING  
**Signage Details**

A1 SCALE  
**1:20**

SCHOOL ID BLDG ID STAGE DISCIPLINE DRAWING No: REV:  
**SR - 01 -SD -AR -3010 -A**



**1** Signage - Entry  
 1:20



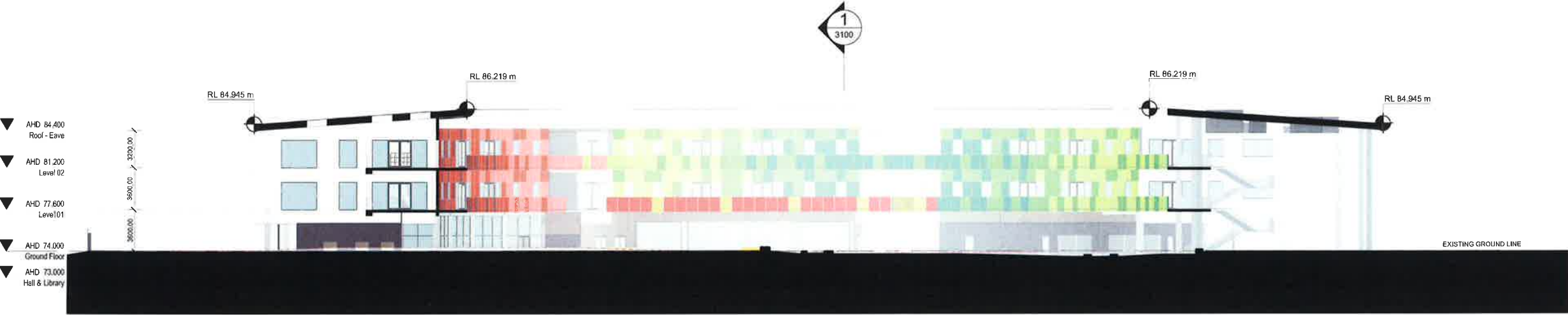


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REV	DESCRIPTION	DATE	APPD
A	For Information	1803 17	
B	For Information	1606 17	
C	For Information	2707 17	
D	Construction Issue	1209 17	
E	Proc. Meeting	2109 17	
F	DRAWING	2909 17	



**1 BUILDING SECTION 1**  
 2100 1:200



**2 BUILDING SECTION 2**  
 2100 1:200

DATE

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**16321**

CLIENT / APPLICANT

**NSW GOVERNMENT | Education**

PROJECT MANAGER

**coffey**  
 A TETRA TECH COMPANY

PROJECT  
 DoEAMD-16-14 Smalls  
 Road, Ryde Public  
 School

DRAWING  
 Sections

A1 SCALE  
 1:200

SCHOOL ID BLOGID STAGE DISCIPLINE DRAWING No. REV.  
 SR - 01 -SD -AR -3100 -F

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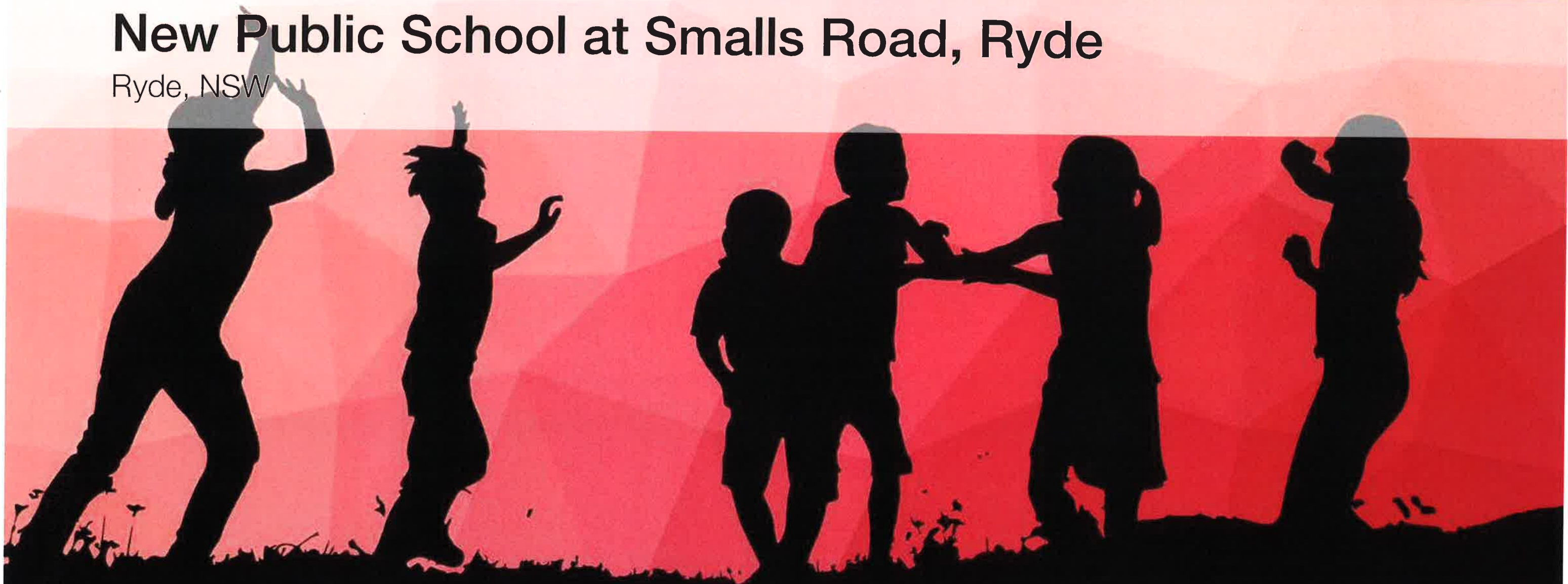
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Sheet No. 16 of 43

# New Public School at Smalls Road, Ryde

Ryde, NSW



Landscape DA Package

ISSUE A

29/09/2017

CONRAD GARGETT

ANCHER MORTLOCK WOOLLEY



Education





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- LA 003 Design Rationale
- LA 004 Learning Experiences
- LA 005 Design Inspiration
- LA 006 Landscape Design Intent
- LA 007 Landscape Masterplan
- LA 008 Level Diagram
- LA 009 Circulation and Functional Diagram
- LA 010 Existing Trees to be Retained
- LA 011 Design Inspiration - Character Areas
- LA 012 Design Inspiration - Character Style
- LA 013 Landscape Concept - Hardscape
- LA 014 Landscape Concept - Softscape
- LA 015 Material Palette - Hardscape
- LA 016 Material Palette - Softscape

## CONRAD GARGETT

### Brisbane Studio

Level 26 / 240 Queen Street  
Brisbane Qld 4000

GPO Box 170 Brisbane Qld  
4001 Australia

Telephone +61 7 3229 3555  
Facsimile +61 7 3221 7878  
mail@conradgargett.com.au  
www.conradgargett.com.au

Revision	Description	Issue Date	Prepared By	Approved By
A	Preliminary Issue	29/09/2017	Megan Randersen	Katharina Niebauer-Walker

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# PROJECT OVERVIEW

In response to projected enrolment growth in the local area, Smalls Road School is a new Kindergarten to Year 6 public school located on Smalls Road, Ryde. The School will have space for up to 1000 students. The school will deliver new future focused learning spaces, a new hall, library and covered outdoor learning areas.

## THE LANDSCAPE DESIGN LENS

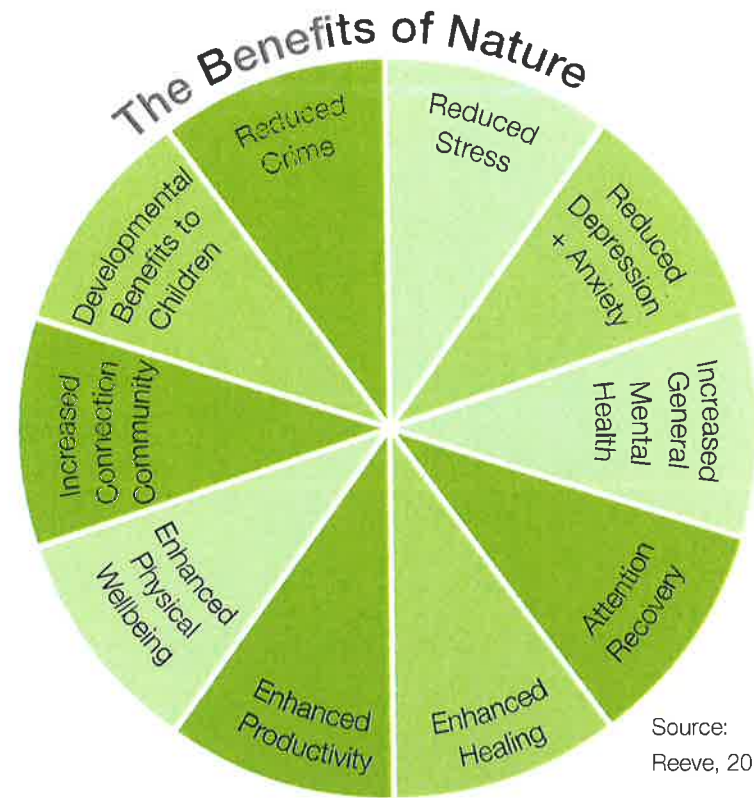


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Sheet No. 18 of 43



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 wellbeing of children and staffs, forms integral part of teaching and learning, and reinforces positive behavior among children / learners such as spaces for reflection and taking time-out.

**ENGAGE** learners and staff in preserving the school's native bush and green environment by providing a place that showcase the natural environment.









# DESIGN INSPIRATION

## SYDNEY LANDSCAPE AS A LEARNING ENVIRONMENT

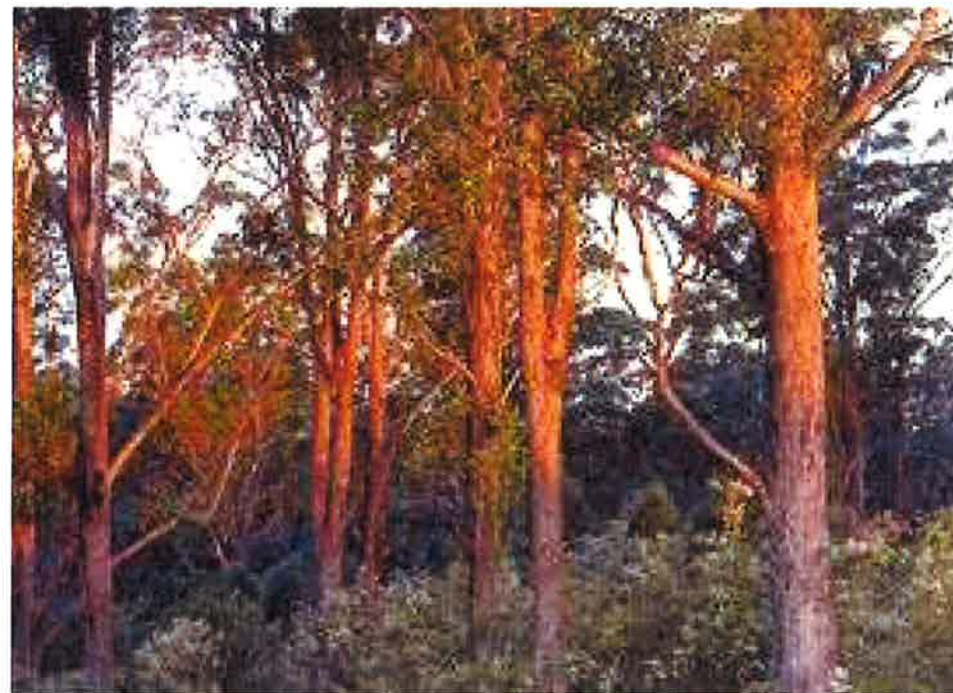
"For tens of thousands of years, the lives and sense of cultural identity of Indigenous Australians were inextricably linked to the land, its forms, flora and fauna. Today, the identity of all Australians is shaped by a relationship with the natural environment."

(<http://www.australia.gov.au/about-australia/our-country/our-natural-environment>)

Landscape Spaces as windows to....



SYDNEY BASIN



FORESTS & WOODLANDS



GRASSLANDS

Creating a learning journey through the landscapes that forms the Sydney Basin...


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# LANDSCAPE DESIGN INTENT

Open grassed area / activity lawn for varied play activities and programs



Playful, interactive and nature-based play areas to invite discovery, imagination and physical activities



Create flexible landscape spaces that cater various activities such as play, outdoor learning, assembly, meeting, gathering or areas for time-out for students, staffs and visitors to enjoy.

Provide nature-based landscape spaces that will provide students opportunities to explore and experience the natural environment such as soil, water, plants and habitats. Create spaces that will provide students access to fresh air and sunlight.



Terraced Seating Area to complement level change and to cater assemblies and gatherings




Small group seating areas and edges



Seasonal interest through flowering trees and shrubs

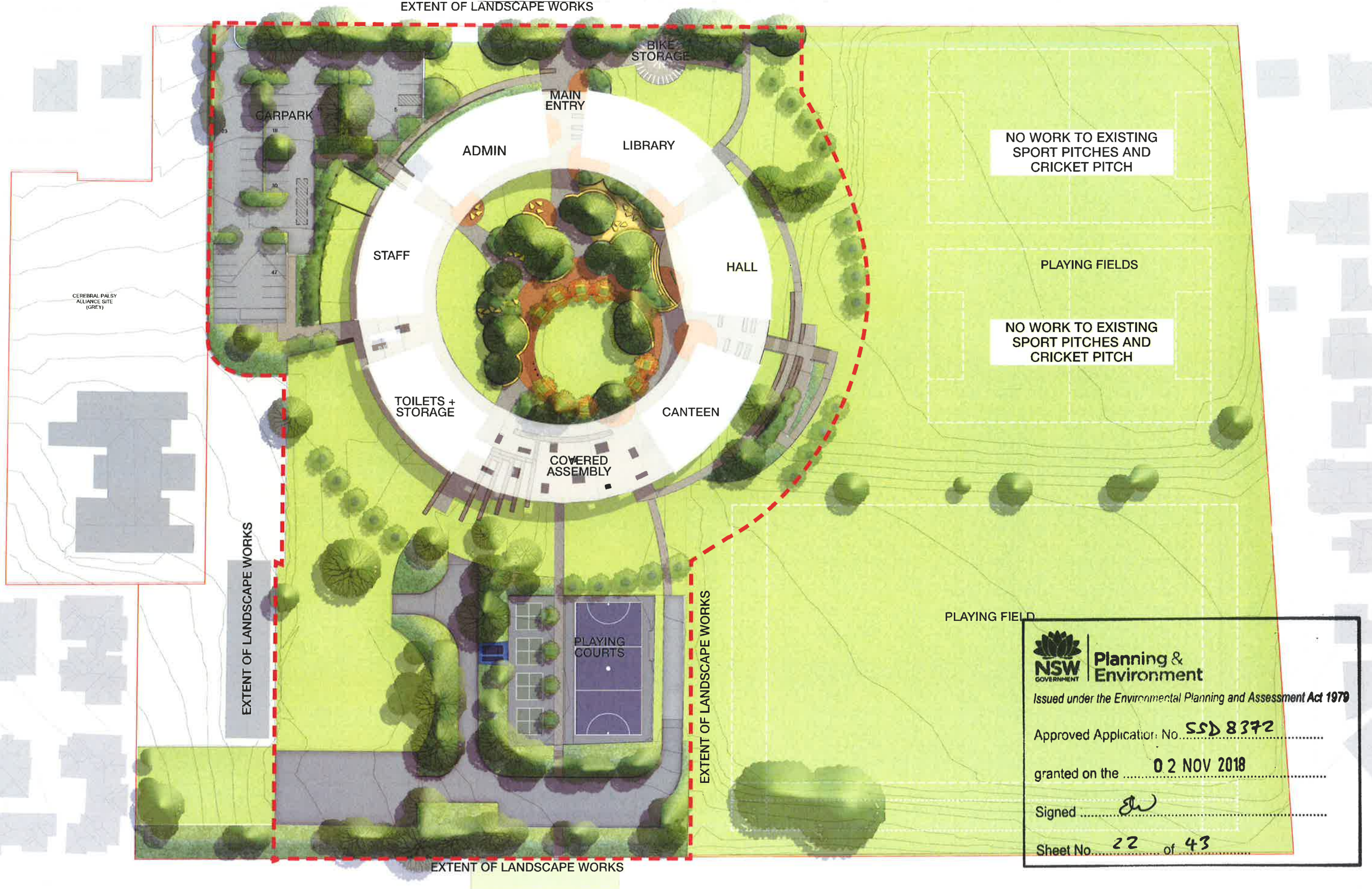



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# SMALLS ROAD

EXTENT OF LANDSCAPE WORKS



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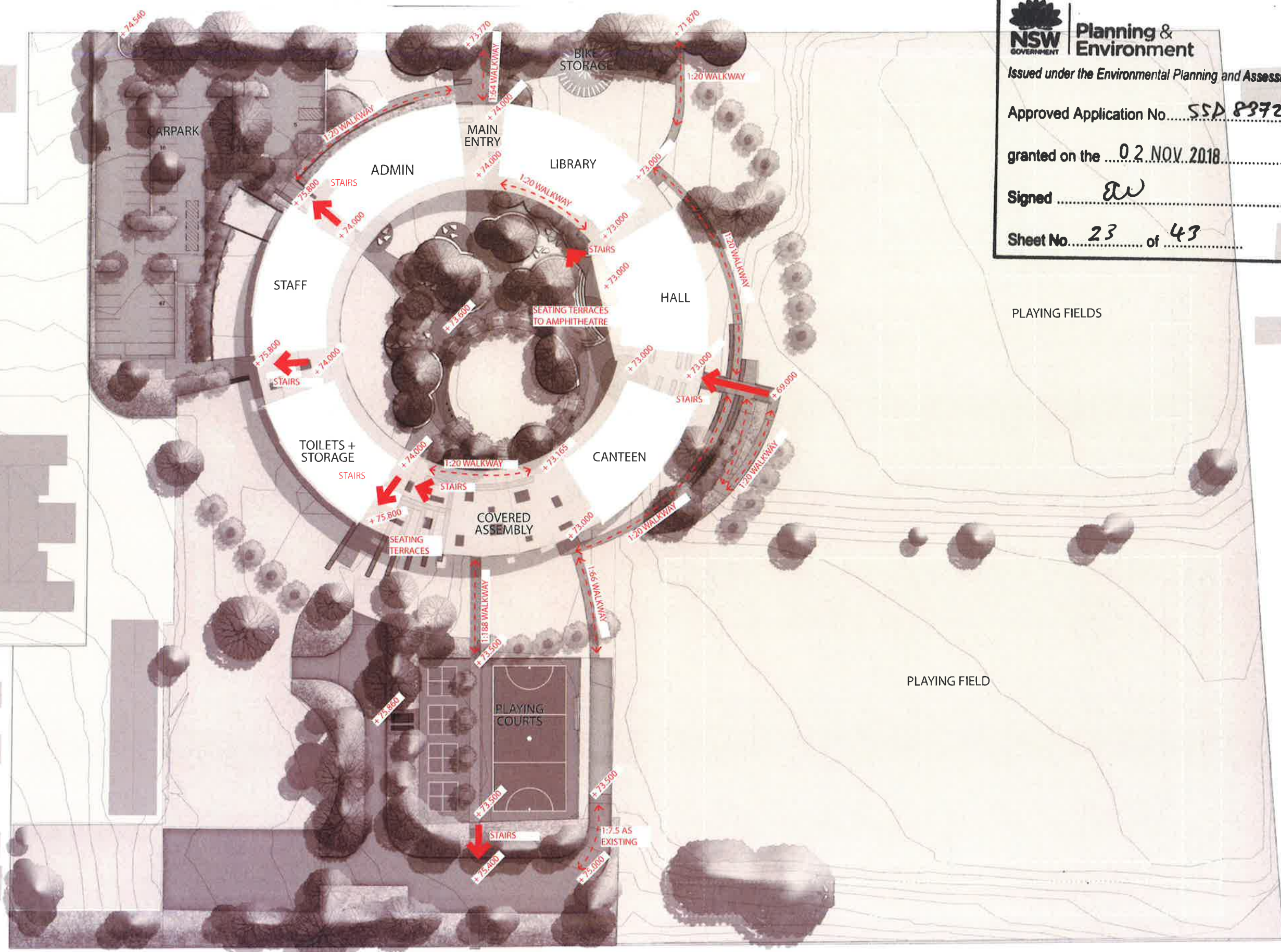
granted on the **02 NOV 2018**

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Sheet No. **22** of **43**



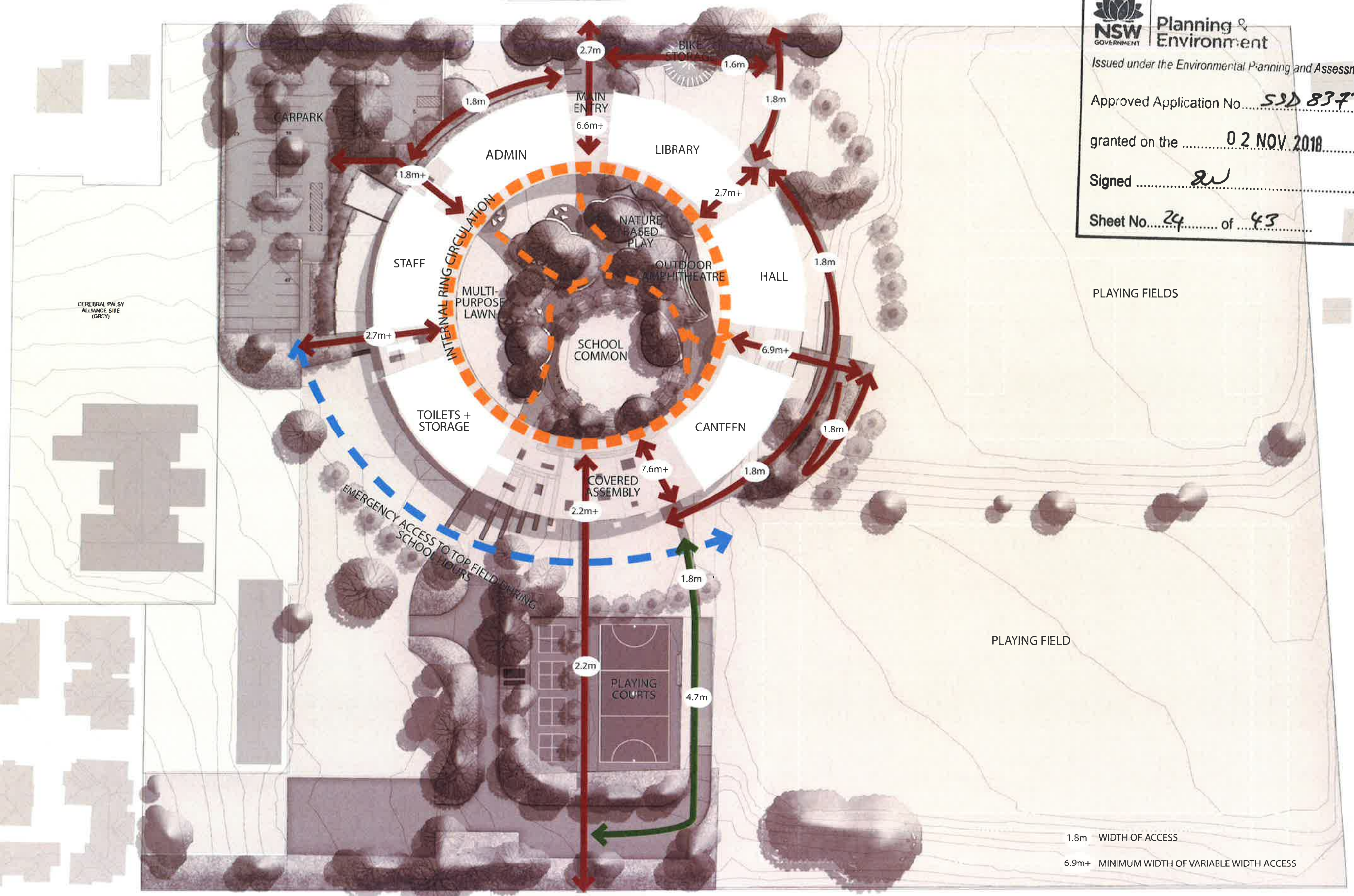

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SMALLS ROAD

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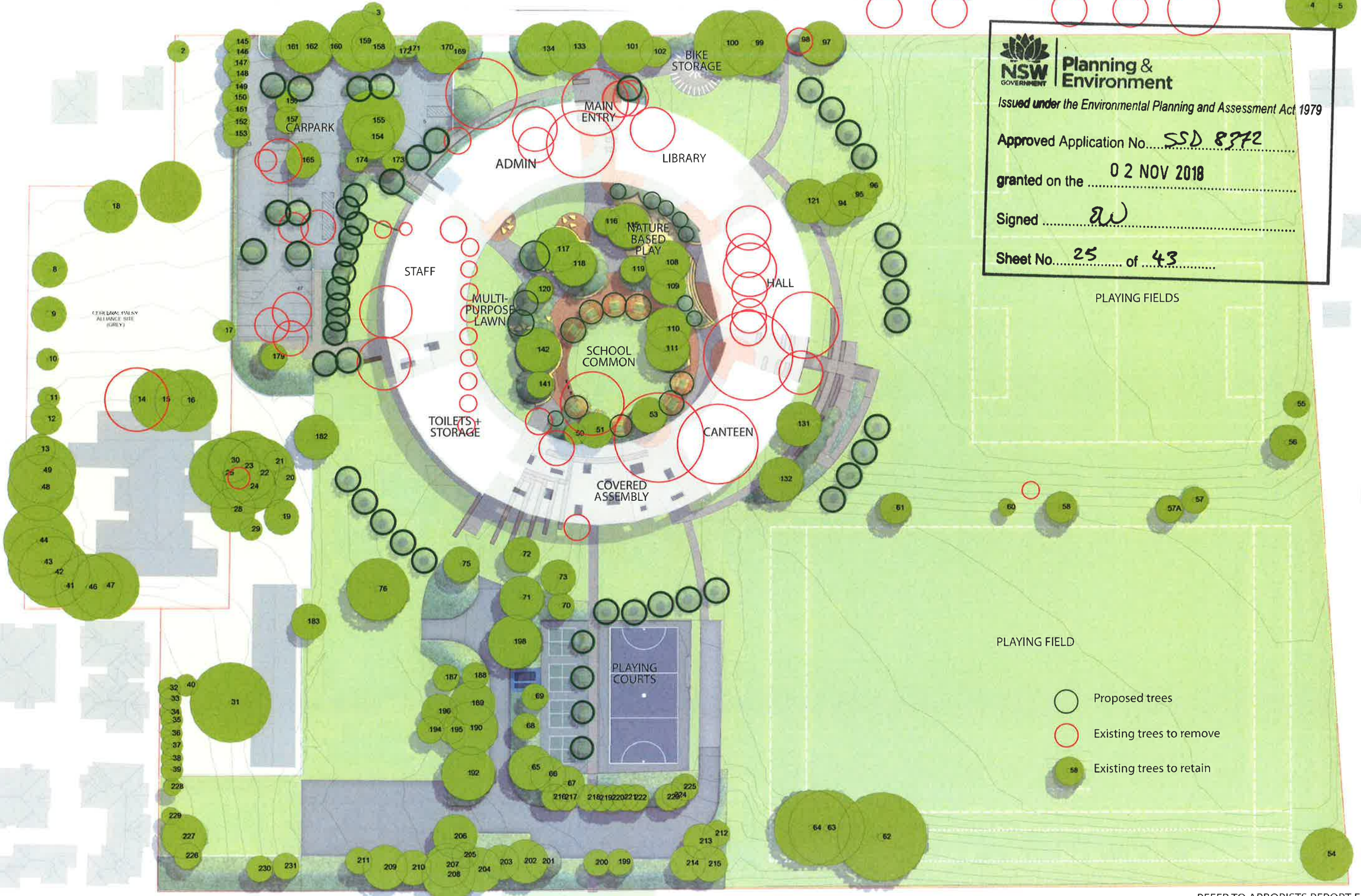


1.8m WIDTH OF ACCESS  
 6.9m+ MINIMUM WIDTH OF VARIABLE WIDTH ACCESS



SMALLS ROAD

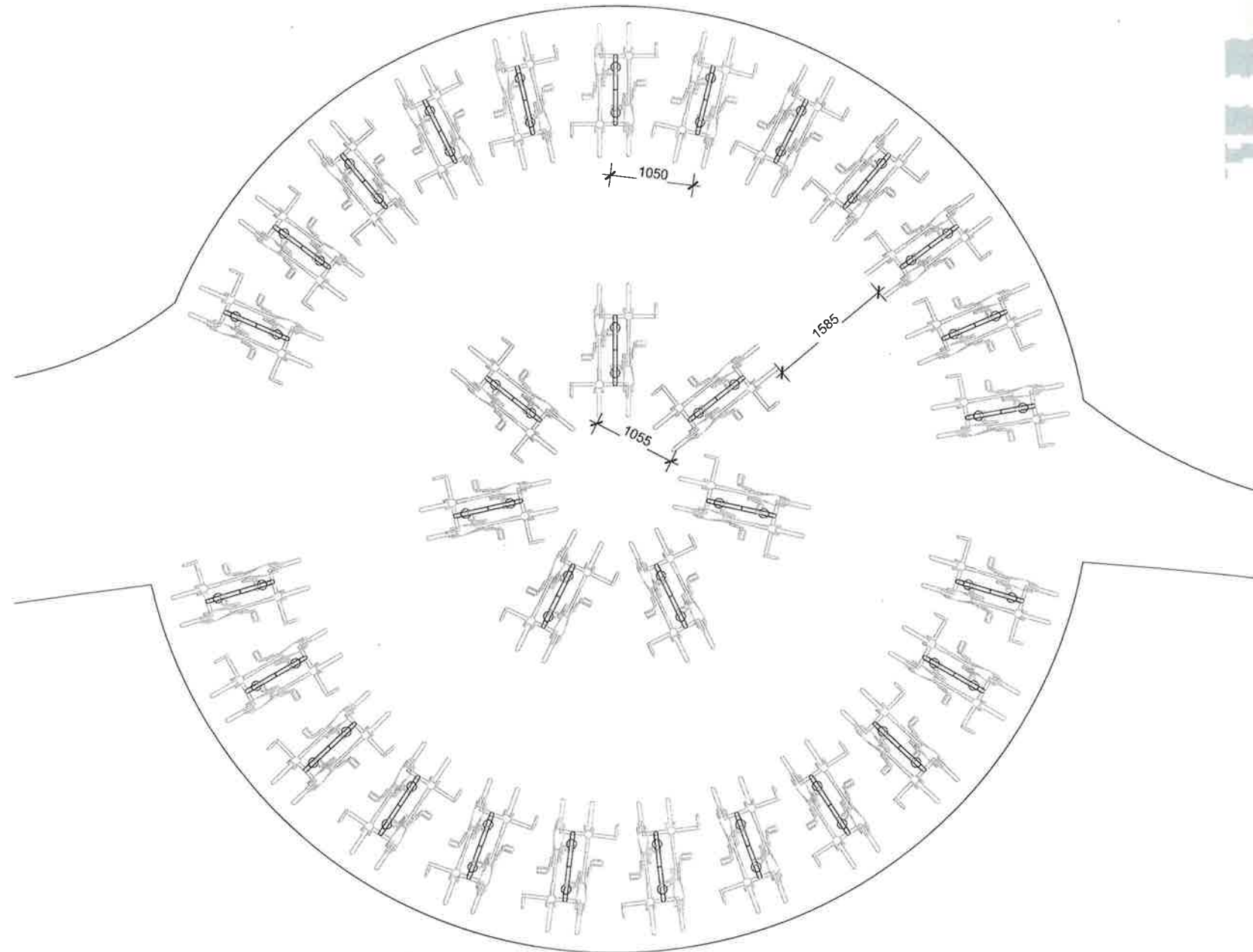
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- Proposed trees
- Existing trees to remove
- Existing trees to retain

REFER TO ARBORISTS REPORT FOR CLARIFICATION OF TREES TO BE REMOVED, TYPE AND LOCATION






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**GENERAL NOTES**

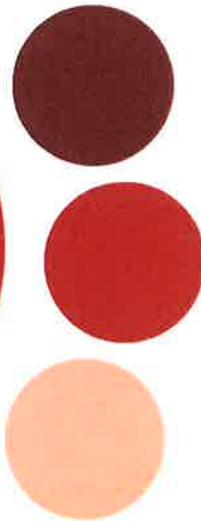
- This bike parking layout will provide for a minimum of 60 bicycles, as required by the EFSG guidelines - based on 1200 students and 1 park per 20 students.







SYDNEY BASIN



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MATERIALS SELECTION



NATURAL ELEMENTS



SILVER FOLIAGE



TEXTURES



RED FLOWERING PLANTS



YELLOW FLOWERING PLANTS







**SANDSTONE SEATING BOULDERS**

**NATURE BASED PLAY**

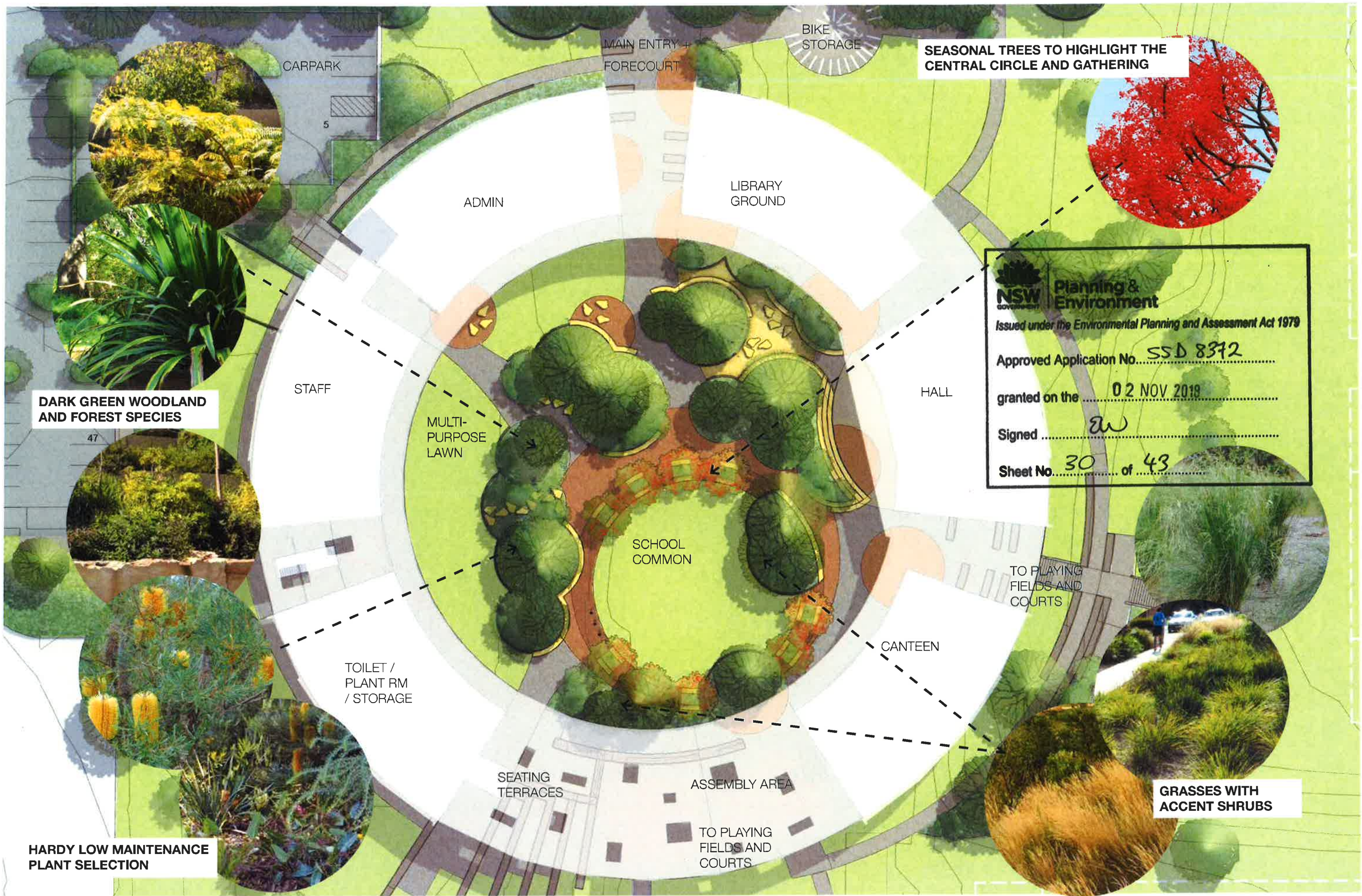

**NSW** Government  
**Planning & Environment**  
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 HALL  
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**TERRACE SEATING**

**SANDSTONE TERRACES TO MITIGATE LEVEL CHANGES / RETAIN EXISTING TREES AND CREATE INFORMAL GATHERING AND SEATING AREAS**

**CONCRETE TERRACES AND SEATING AT ENTRIES AND ASSEMBLY AREAS**





SEASONAL TREES TO HIGHLIGHT THE CENTRAL CIRCLE AND GATHERING

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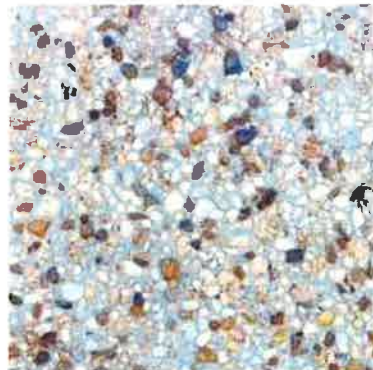
DARK GREEN WOODLAND AND FOREST SPECIES

GRASSES WITH ACCENT SHRUBS

HARDY LOW MAINTENANCE PLANT SELECTION



PAVING



**EXPOSED AGGREGATE**  
Aggregate: 'Honey Red'  
Finish: Light exposed  
Full depth concrete colour varies  
Supplier: Hanson or equivalent



**EXPOSED AGGREGATE**  
Aggregate: 'Haleys Comet'  
Finish: Light exposed  
Full depth concrete colour varies  
Supplier: Hanson or equivalent



**FULL DEPTH COLOURED CONCRETE**  
Colour: CCS CANVAS



**FULL DEPTH COLOURED CONCRETE**  
Colour: CCS SUNDANCE



**FULL DEPTH COLOURED CONCRETE**  
Colour: CCS CHEROKEE



EXAMPLE OF USE



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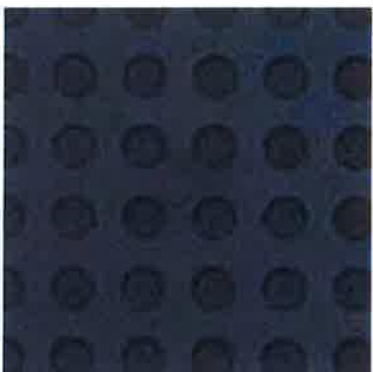
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Signed *SW*

Sheet No. **47** of **47**

PAVING



**TACTILE INDICATORS**  
300mm x 300mm x 40mm  
Type: Precast concrete paver  
Colour: Black  
Supplier: Chelmsstone or equivalent



**SANDSTONE CRAZY PAVE**

SOFTFALL



**SAND**



**BARK**

EDGES



**GARDEN EDGE**  
150mm x 150mm  
Plain Grey Concrete

WALLS AND SEATS



random boulder seats



Sawn sandstone blocks

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



2600mm (L) x 720mm (H) x 1780mm (D) -  
Frame: Black Powder Coated Steel,  
Cladding: Black Powder Coated Steel,  
Slats: Select Timber Hardwood  
Supplier: MOS or equivalent



600mm (W) x 1240mm (H) x 605mm (D) -  
Cladding: Black Powder Coated Steel,  
Chute and Cover: Black Powder Coated Steel  
Slats: Select Timber Hardwood  
Supplier: MOS or equivalent



TREES



Banksia integrifolia  
COAST BANKSIA  
3.5m Height x 2.0m Spread



Lophostemon confertus  
BRUSH BOX  
4.5m Height x 2.5m Spread



Syncarpia glomulifera  
TURPENTINE TREE  
5m Height x 3m Spread



Syzigium australe  
BRUSH CHERRY  
3.5m Height x 2.0m Spread



Brachychiton acerifolius  
FLAME TREE  
5m Height x 3m Spread



Alloxylon flammeum  
TREE WARATAH  
6m Height x 3m Spread



Banksia robur  
SWAMP BANKSIA  
2.5m Height x 2.0m Spread

SHRUBS



Banksia spinulosa  
HAIRPIN BANKSIA  
200mm min. pot size



Doryanthes excelsa  
GYMEA LILY  
200mm min. pot size



Westringia fruticosa  
COASTAL ROSEMARY  
200mm min. pot size



Lomandra longifolia  
MAT-RUSH  
140mm min. pot size



Themeda australis  
KANGAROO GRASS  
140mm min. pot size



Chrysocephalum apiculatum  
YELLOW BUTTONS  
140mm min. pot size



Isolepis nodosa  
CLUB RUSH  
140mm min. pot size



Myoporum ellipticum  
CREEPING BOOBIALLA  
140mm min. pot size

GROUNDCOVERS AND TURF



Viola hederacea  
NATIVE VIOLET  
140mm min. pot size



Cynodon dactylon  
GREEN COUCH



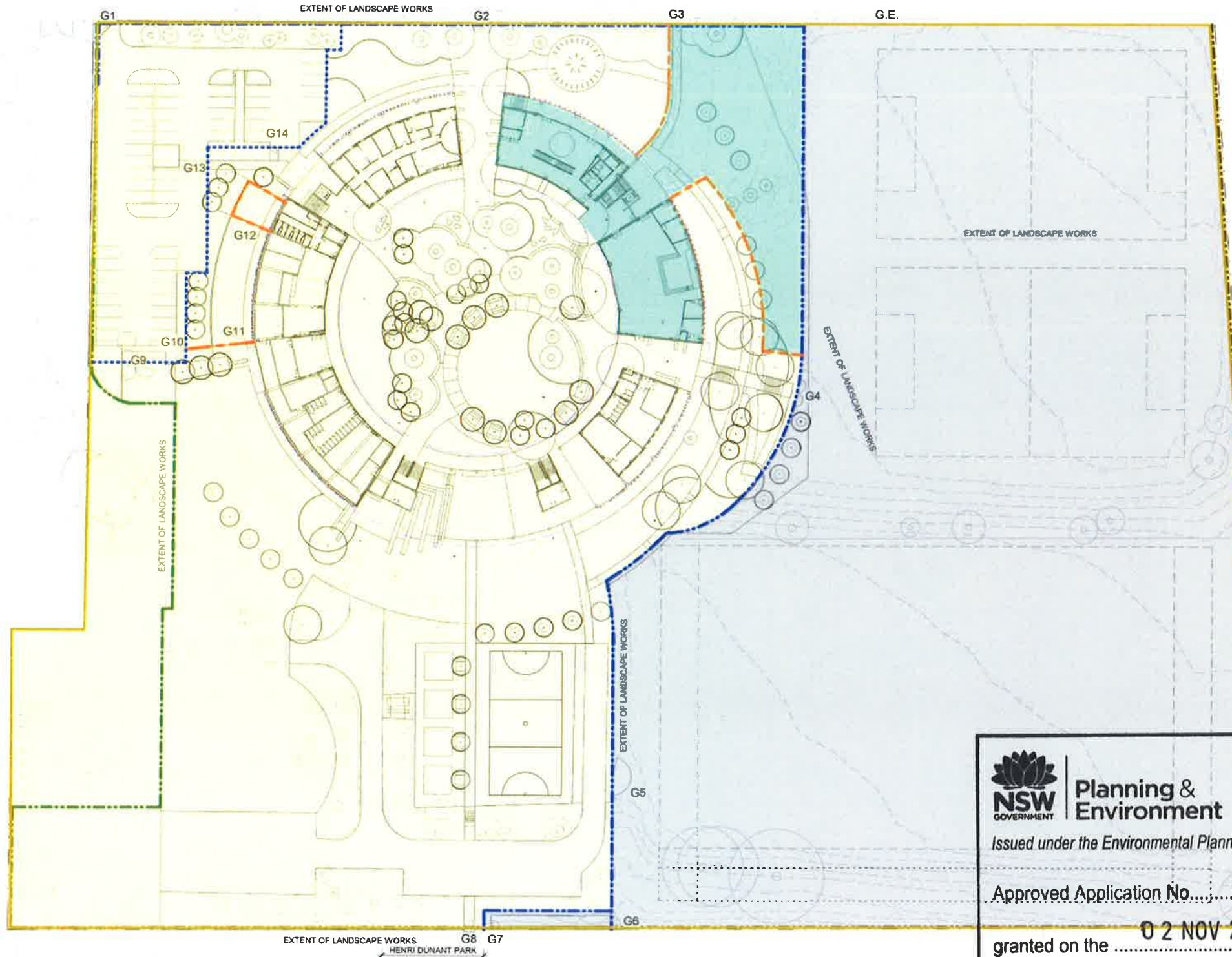
Stenotaphrum secundatum  
BUFFALO GRASS (for shaded area)

GENERAL PLANTING NOTES

- Provide low maintenance planting with minimal water requirements
- Retain and protect existing trees where possible
- Provide low planting where sight lines are to be maintained (CPTED)
- Reflect the existing landscape character
- Improve school amenity and microclimates
- Provide screening and buffer planting where required

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 Sheet No. **32** of **47**





- SITE BOUNDARY
- 2100mm high tubular steel fence and gates, refer to architect's documentation for specification and detail
- 2100mm high timber paling fence and gates, refer to architect's documentation for specification and detail
- 1800mm high tubular steel fence and gates, refer to architect's documentation for specification and detail
- 1000mm tubular steel fence and gates refer to architect's documentation for specification and detail
- Existing weldmesh fence to remain. All barbed wire to be removed and all panels made good. refer to architect's documentation for specification and detail

- G1 Controlled vehicle access
- G2 Pedestrian gate - front of school
- G3 Pedestrian gate - secondary & after hour access
- G4 Internal gate - pedestrian access to ovals
- G5 Internal gate vehicle access to ovals
- G6 Internal gate after hours pedestrian access to fields
- G7 Pedestrian gate after hour access to fields
- G8 Pedestrian gate
- G9 Internal vehicle gate
- G10 Internal pedestrian gate
- G11 Internal pedestrian gate
- G12 Internal pedestrian gate
- G13 Internal pedestrian gate
- G14 Internal pedestrian gate
- G.E Existing access to oval

Revision	REV	DESCRIPTION	DATE	APPD
A		Detail Design	02/03/18	KMW

Client / Applicant

Project Manager

A TETRA TECH COMPANY

Project

**DoEAMD-16-14 Smalls Road, Ryde Public School**

Drawing

**Fence Layout**

**PRELIMINARY**

A1 Scale 1 : 500  
 Project 16/321  
 Drawing L 0015  
 Status DD  
 Issue A

Details

Copyright Conrad Gargett ACN 010 350 623 ABN 49 325 21 350  
 Do not scale this drawing and verify all dimensions and levels on site.  
 Homestead Architect Lawrence Toole NSW Reg 10256  
 01891 40 90

- SCHOOL ACCESS
- SCHOOL AFTER HOUR ACCESS
- COMMUNITY AFTER HOUR ACCESS

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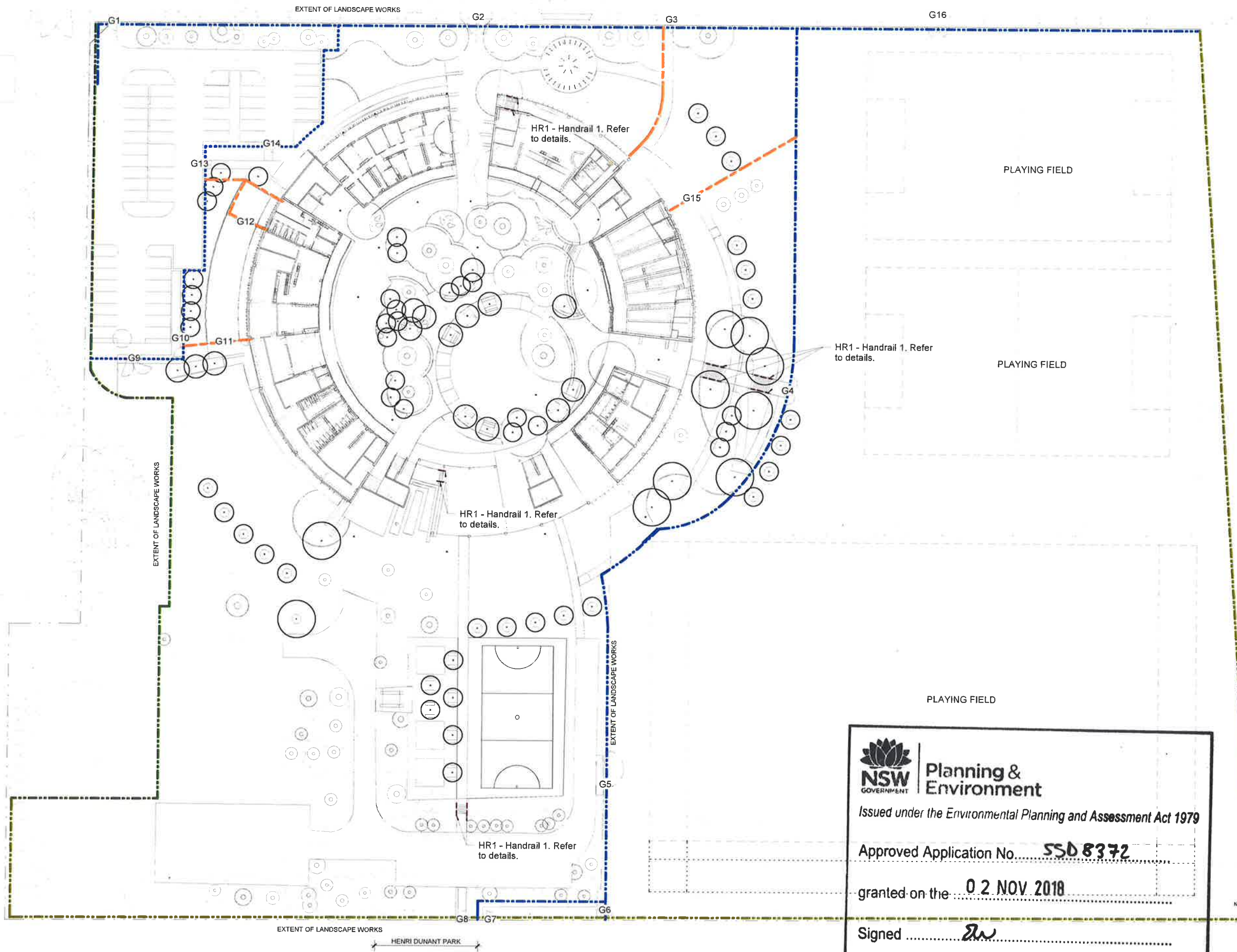
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# SMALLS ROAD



10 0 10 20 30 40 50  
SCALE 1:1 @ A1  
© CONRAD GARGETT  
mail@conradgargett.com.au ABN 49 325 121 350  
DO NOT SCALE DRAWING & VERIFY ALL DIMENSIONS AND LEVELS ON SITE  
CONRAD GARGETT ARCHITECT LANDSCAPE TOPOGRAPHY & SURVEY

REV	DESCRIPTION	DATE	APPD
A	Internal Issue	14/03/18	KGW
B	50% Tender Issue	15/03/18	KGW
C	SSDA Response	03/04/18	JM

--- SITE BOUNDARY  
--- EXTENT OF WORKS

- 2100mm high tubular steel fence and gates, refer to architect's documentation for specification and detail
- 2100mm high timber paling fence and gates, refer to architect's documentation for specification and detail
- 1800mm high tubular steel fence and gates, refer to architect's documentation for specification and detail
- 1200mm tubular steel fence and gates, refer to architect's documentation for specification and detail
- Existing weldmesh fence to remain. All barbed wire to be removed and all panels made good, refer to architect's documentation for specification and detail

- G1 Controlled vehicle access
- G2 Pedestrian gate - front of school
- G3 Pedestrian gate - secondary & after hour access
- G4 Internal gate - pedestrian access to ovals
- G5 Internal gate vehicle access to ovals
- G6 Internal gate after hours pedestrian access to fields
- G7 Pedestrian gate after hour access to fields
- G8 Pedestrian gate
- G9 Internal vehicle gate
- G10 Internal pedestrian gate
- G11 Internal pedestrian gate
- G12 Internal pedestrian gate
- G13 Internal pedestrian gate
- G14 Internal pedestrian gate
- G15 Internal pedestrian gate
- G16 Pedestrian & Vehicle Gate - access to ovals

## PRELIMINARY

ARCHITECT  
**Conrad Gargett**

INTERNAL PROJECT No:  
**16/321**  
CLIENT / APPLICANT

**NSW GOVERNMENT** Education School Infrastructure

PROJECT MANAGER  
**coffey**  
A TETRA TECH COMPANY

PROJECT  
DoEAMD-16-14 Smalls Road,  
Ryde Public School

DRAWING  
Fence Layout

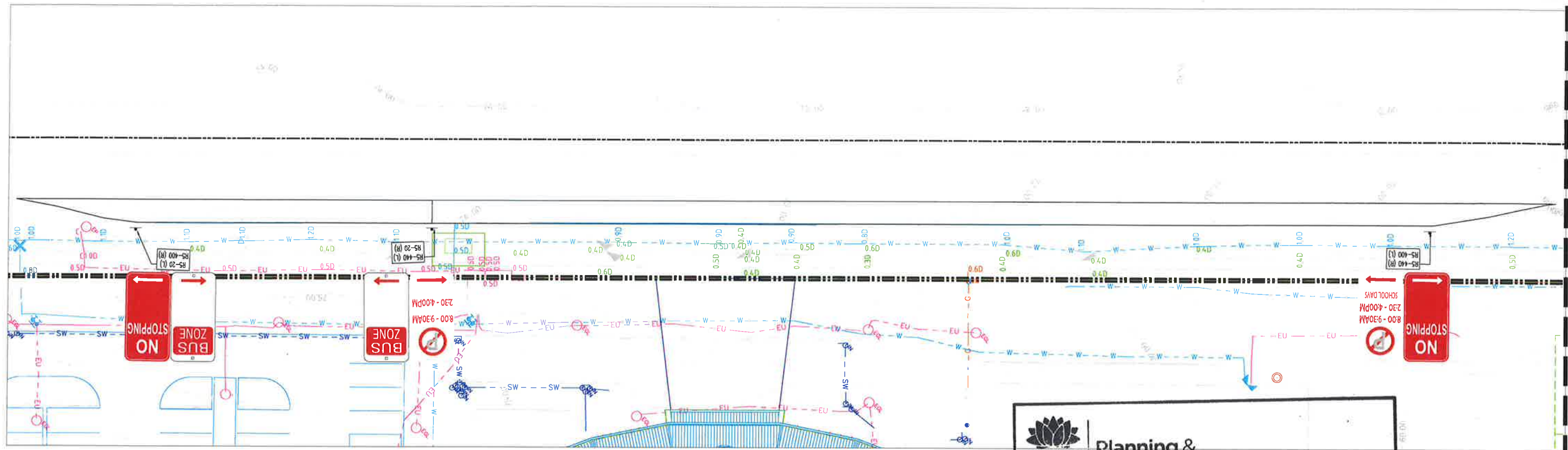
A1 SCALE  
As indicated

DATE:  
03/04/18

SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV  
SR - 01 - DD - LA - DR - 0015 - C

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FOR CONTINUATION REFER BELOW

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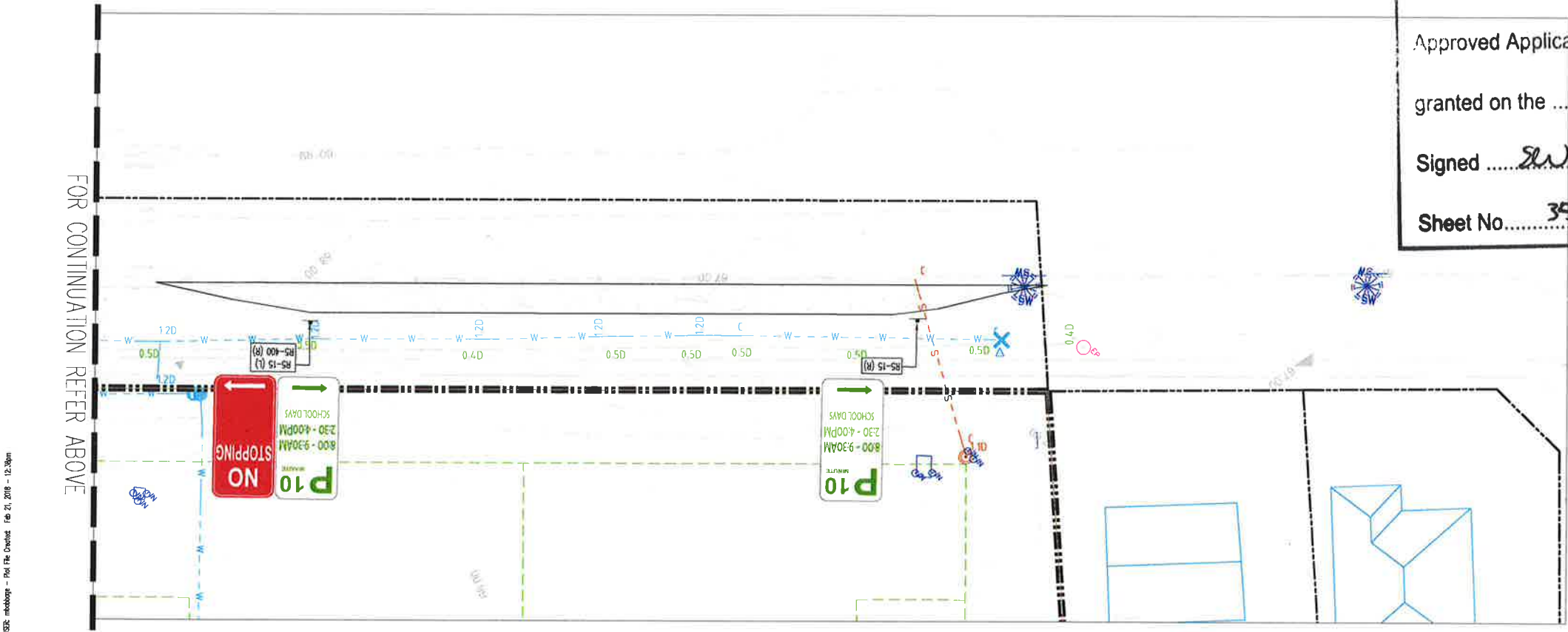
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PLAN INDICATIVE OF SIGNAGE TYPES AND RESTRICTIONS ONLY

CIVIL ENGINEER TO CONFIRM KERB ALIGNMENT AND SIGNPOST LOCATIONS



FOR CONTINUATION REFER ABOVE

Filename: TTW.dwg - USSE: maboye - Ref: P16 Created: Feb 21, 2018 - 12:38pm

A1 1 2 3 4 5 6 7 8 9 10

<b>PRELIMINARY</b> Rev Description Eng Draft Date		Architect <b>Conrad Gargett</b> SUITE C3 18 / 22-36 MOUNTAIN STREET ULTIMO NSW 2007		Traffic Engineer <b>TTW Taylor Thomson Whitting</b> 612 9439 7288   46 Chandos Street St Leonards NSW 2065		Project <b>SMALLS ROAD PUBLIC SCHOOL</b>		Sheet Subject <b>DROP-OFF AND PICK-UP BAY PROPOSED RESTRICTIONS SIGNAGE PLAN</b>		Scale: A1 1:100, 1:20 Drawn: MB Authorised:	
Job No: 161375 Drawing No: T01 Revision: P1										Job No: 161375 Drawing No: T01 Revision: P1 Plot File Created: Feb 21, 2018 - 12:38pm	

**PRELIMINARY**



**IMPORTANT NOTES**

**PROJECT DATUMS**

The data contained in this electronic file is based on Map Grid of Australia (MGA) Coordinates and on Australian Height Datum (AHD). The project coordinate system is plane based (ground scale). The MGA and AHD datum point is PM 48969 (E=325374.861, N=6258767.758, Accuracy B/2, RL 79.40 Accuracy E/5) located in Bridge Road.

**PROJECT SITE BOUNDARIES AND DP DISCREPANCIES**

The boundaries of the subject land shown hereon have been compiled from Deposited Plans on Public Record and are subject to a full boundary survey. The age of the various Deposited Plans varies and boundary discrepancies exist between some of the respective Plans.

The boundaries are suitable for Master Planning of the Project Site.

However, when detailed development is planned and undertaken, or if improvements are proposed within 0.5m of the boundaries shown on this plan, a full boundary survey should be commissioned to confirm the discrepancies and then to prepare a Plan of Survey suitable for registration by LPI NSW documenting the discrepancies.

**VIEW ASSOCIATED 3D CAD FILES AND INFORMATION**

This project mapping has been designed to be viewed in multiple CAD layers and multiple CAD files. The CAD files will allow interrogation of the information independent of scale restrictions (including near title dimensions). The digital CAD files are generally in 3D and consequently queries of features and dimensions between points may produce slope distances rather than horizontal distances.

**CONTOURS**

The major contour interval on this plan is 1.0m, minor interval is 0.5m. Contours are a calculated indication of landform only. Spot Reduced Levels (RLs) should be used in preference to contours.

**BUILDING INFORMATION**

The building footprints shown on this plan are at ground level. Building footprints at different levels may vary. Roof ridges, gutters and eave heights have been obtained by an indirect method and are accurate to ±0.05m.

**NOTES TO ACCOMPANY DATA**

These notes are an integral part of the digital data file and should be read with the data file and must not be removed from the data file.

For reasons of plan presentation, not all of the information can be shown on this plan. Please refer to accompanying digital data for all survey information and attributes.

**NOTES ON UNDERGROUND SERVICES**

Quality level classifications reflect the precision and accuracy of utility location and attribute information pursuant to AS5488-2013: classification of subsurface utility information. All surface indicators that have been surveyed by conventional methods (where accessible and visible) and are categorised Class A (the highest standard). All other underground service routes shown on this plan have been located to quality Category B unless noted otherwise.

Where possible in the field, depths to individual services were obtained and recorded. The level recorded in this plan is the surface level above the utility - the depth is shown as a textural notation. Hence, the attribute "600 C" indicates a location quality of Class C with a depth to the utility of 600mm.

**LEGEND**

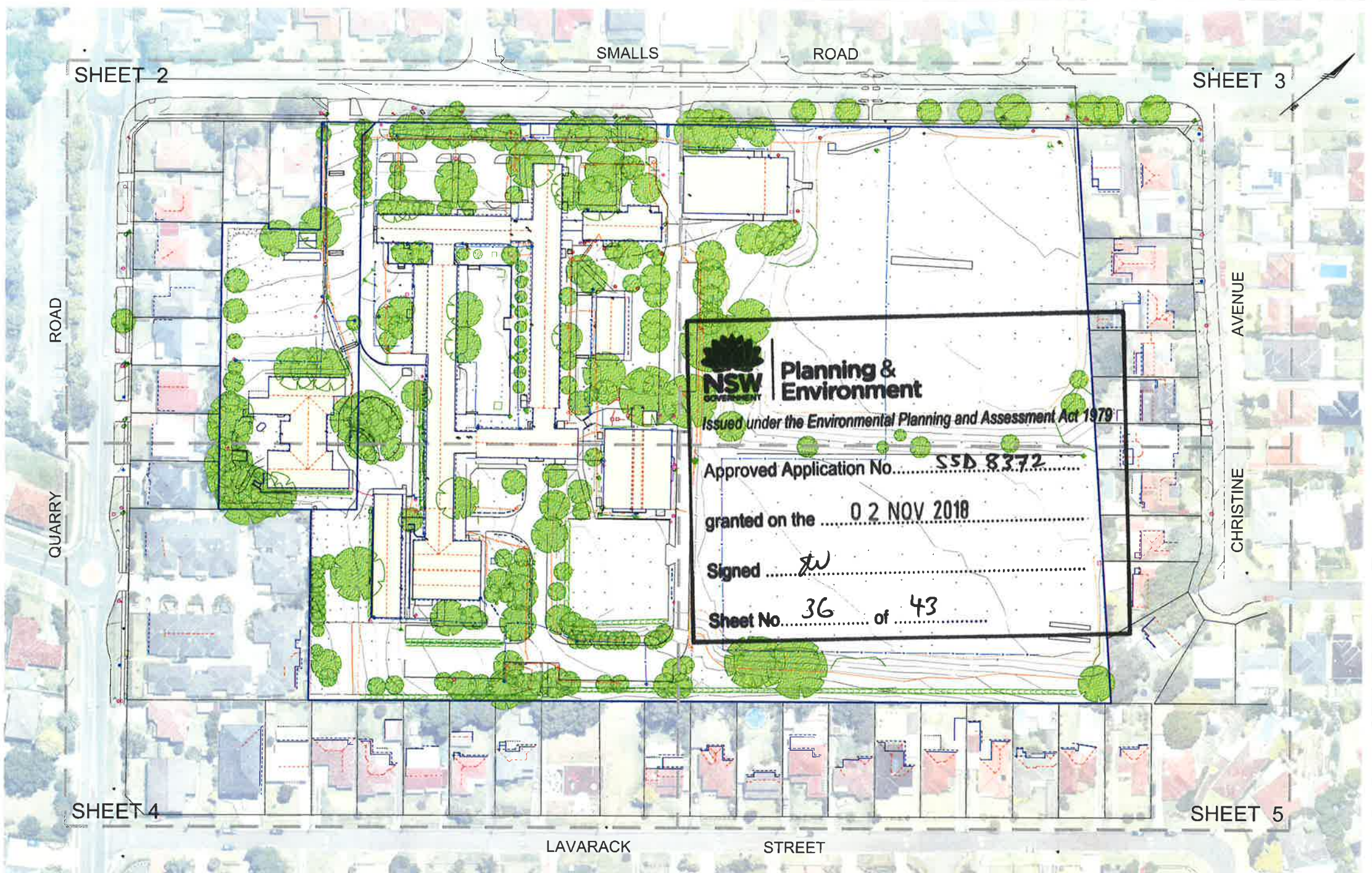
- PERMANENT MARK
- BENCH MARK
- FLAG POLE
- SIGN
- WALL BOX
- BOUNDARY
- ELECTRIC
- ELEC CABLE JUNCTION BOX
- ELEC CABLE MARKER
- ELEC PILLAR
- ELEC STAY POLE
- ELEC POLE LIGHT
- ELEC DISTRIBUTION FLUY
- ELEC GARDEN LIGHT
- ELEC POWER POLE
- ELEC POWER POLE & LIGHT
- SEWER
- SEWER LAMPPOST COVER
- SEWER VENT PIPE
- SEWER MANHOLE
- STORM WATER
- INVERT OF OPS
- SLUMP ALLEY
- UTILITY PIT
- DRAINAGE JUNCTION BOX
- DRAIN MANHOLE
- DRAIN KERB OUTLET
- WATER
- FIRE HYDRANT
- WATER MARKER
- WATER HYDRANT
- WATER STOP VALVE
- WATER METER
- WATER TAP
- WATER AIR VALVE
- GAS
- GAS MARKER (HP)
- GAS MARKER
- GAS METER
- GAS VALVE BOX
- COMMUNICATION
- TELEPHONE DISTRIBUTION IN AIR
- TELEPHONE PIT 1100 SD
- TELEPHONE PIT
- TWIN TELEPHONE PIT
- TRIPLE TELEPHONE PIT
- OPTICAL FIBRE PIT
- OPTIC FIBRE MANHOLE
- TELEPHONE FACED MARKER
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTRAILER
- UNKNOWN SERVICE
- GATE LID
- BUILDING LINE
- BUILDING PIER
- BUILDING WALL
- GARAGE EXTENSION
- ROAD CENTRE LINE
- KERB & CHANNEL
- DIS-DRAIN
- GRASS GULLY PIT
- DRAINAGE PIPE
- TOP OF BANK
- BOTTOM OF BANK
- FENCE
- WATER MAIN
- ELECTRIC LINE (GROUND)
- COMMUNICATIONS LINE (UNDERGROUND)
- SEWER MAIN

**On-site Tree Schedule**

Tree Number	Canopy Spread (m)	Trunk (mm)	Height (m)
1	8	300	5
2	5	300	10
3	5	300	4
4	10	300	7
5	10	300	7
6	10	300	7
7	14	1200	12
8	8	300	8
9	8	800	10
10	5	300	6
11	5	200	8
12	7	800	14
13	7	800	14
14	14	900	10
15	14	400	10
16	14	1200	9
17	5	300	8
18	12	1500	8
19	8	300	8
20	5	200	7
21	5	200	7
22	16	300	12
23	16	500	12

**PROJECT SITE CONTROL MARKS**

MARK	DESCRIPTION	COORDINATES	STATUS	
BM 1	325193.580	6258322.461	80.484	Nail in Conc.
BM 2	325195.283	6258347.015	71.112	Drill Hole in Conc.
BM 3	325209.396	6258223.586	84.495	Drill Hole in Conc.
BM 4	325272.605	6258573.496	66.670	Drill Hole in Conc.
BM 5	325240.688	6258272.311	84.155	Nail in Conc.
BM 6	325284.606	6258589.470	75.533	Drill Hole in Conc.
BM 7	324884.900	6258385.691	74.658	Nail in Conc.
BM 8	325129.986	6258687.896	67.478	Drill Hole in Conc.
BM 9	325295.639	6258442.036	76.849	Drill Hole in Conc.
PM 48975	325219.324	6258235.736	80.224	PM 48975
PM 48969	325374.861	6258767.758	79.400	PM 48969



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24	12	300	9	50	5	300	8	76	14	800	17	102	7	400	8	128	20	1000	15	154	10	400	6	180	8	300	5	206	10	400	14
25	16	500	12	51	8	300	8	77	4	400	5	103	10	500	10	129	15	400	10	155	14	500	14	181	7	200	5	207	10	400	14
26	5	200	7	52	14	600	9	78	4	300	5	104	8	300	8	130	19	400	8	156	5	200	8	182	10	500	12	208	12	400	16
27	7	300	8	53	8	300	8	79	4	300	5	105	8	300	8	131	10	400	12	157	6	300	8	183	8	300	12	209	10	300	8
28	10	700	10	54	12	700	20	80	4	200	5	106	5	300	8	132	10	400	12	158	10	500	14	184	6	400	10	210	8	400	10
29	5	200	6	55	9	400	12	81	4	200	5	107	5	300	8	133	12	500	10	159	14	1000	12	185	8	400	10	211	6	300	10
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Scale: 1:750. MGA, AHD. CONRAD GARDEN. CONTOUR & DETAIL SURVEY OVER SCHOOL SITE AT SMALLS ROAD, NORTH RYDE LOTS 1 & 2 ON DP830420. PR133183. A1. RPS.





Planning & Environment

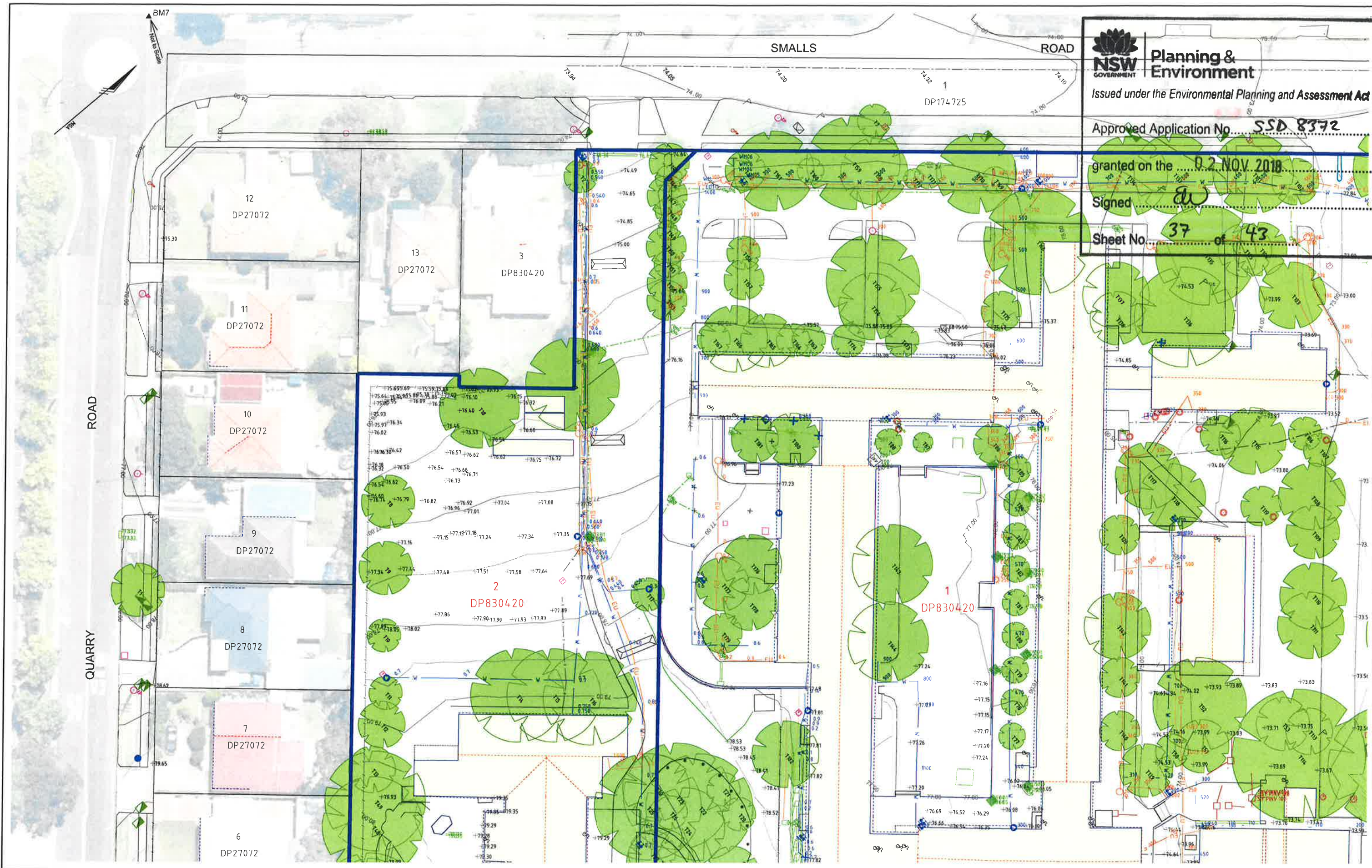
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Approved Application No. **SSD 8372**

granted on the **02 NOV 2018**

Signed *[Signature]*

Sheet No. **37** of **43**



NO	DATE	REVISION OR TASK	DRAWN	CHK	APP
A	18.10.2016	INITIAL VERSION	ST	DA	JS

HORIZ. SCALE	VERT. SCALE	NOTES
1:250	@ A1	
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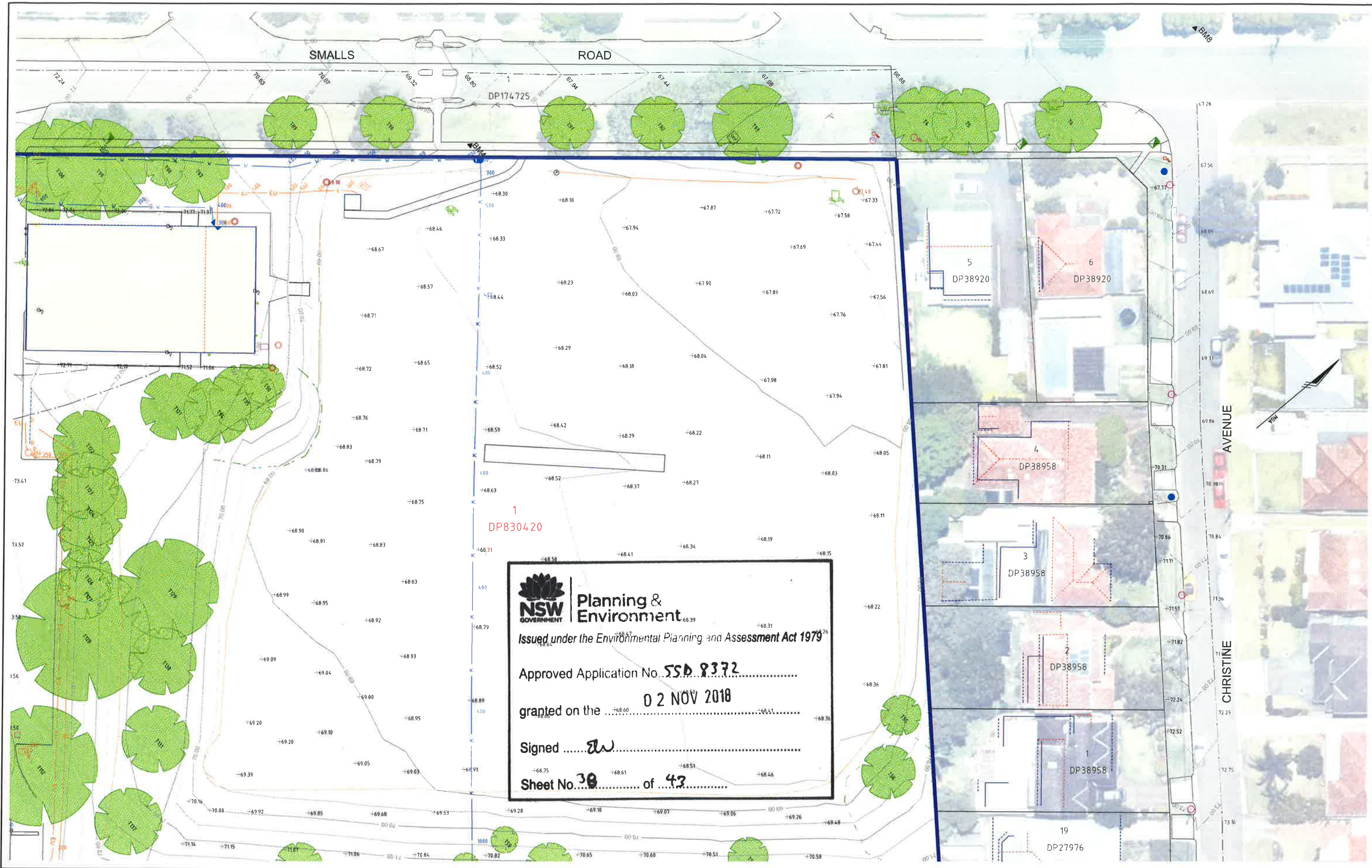
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SURVEY	RPS	14/10/2016
DRAWN	ST	DATE OF PLAN
CHECKED	DA	17/10/2016
APPROVED	JS	DATE LAST SAVED
		18.10.2016

PR133183	PR133183 School Site at Smalls Road-DET-A.dwg
----------	---

**CONTOUR & DETAIL SURVEY**  
**OVER SCHOOL SITE AT SMALLS ROAD, NORTH RYDE**  
**LOTS 1 & 2 ON DP830420**

PR133183  
  
 SHEET 2 OF 5 SHEETS  
 A1







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 Approved Application No. SSD 8372  
 granted on the 02 NOV 2018  
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 Sheet No. 38 of 43

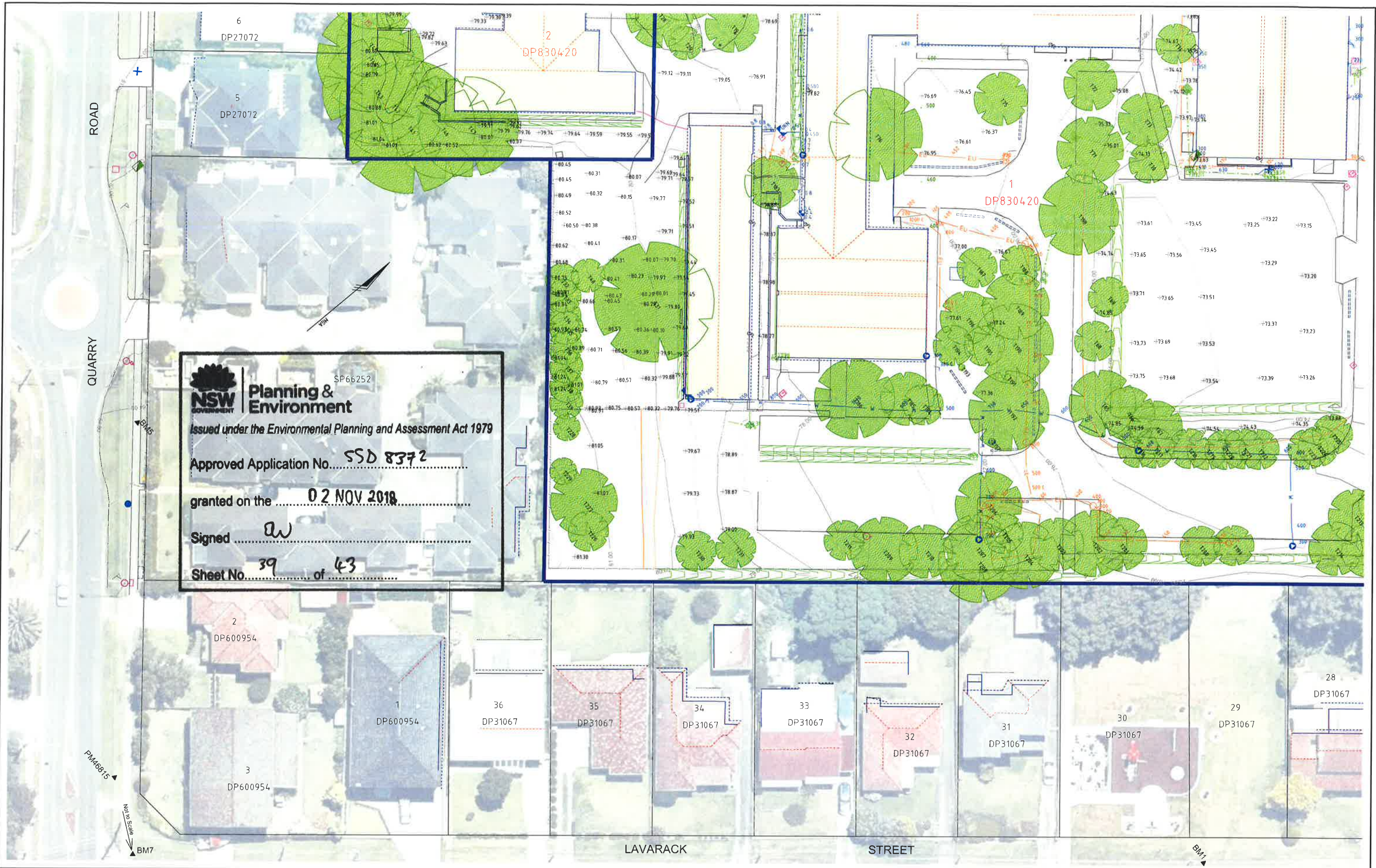
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PROJ. NO.	PM48969	PROJ. NO.	PM48969
DATE	18.10.2016	DATE	18.10.2016
VERSION	INITIAL VERSION	VERSION	INITIAL VERSION


CONRAD GARGET	DATE OF SURVEY	16/10/2016
DATE OF PLAN	17/10/2016	
DATE LAST SAVED	18.10.2016	
DATE APPROVED		

**CONTOUR & DETAIL SURVEY**  
 OVER SCHOOL SITE AT SMALLS ROAD, NORTH RYDE  
 LOTS 1 & 2 ON DP830420  
 PR133183 School Site at Smalls Road-DET-A.dwg

PR133183  
  
 3 OF 5 SHEETS  
 A1





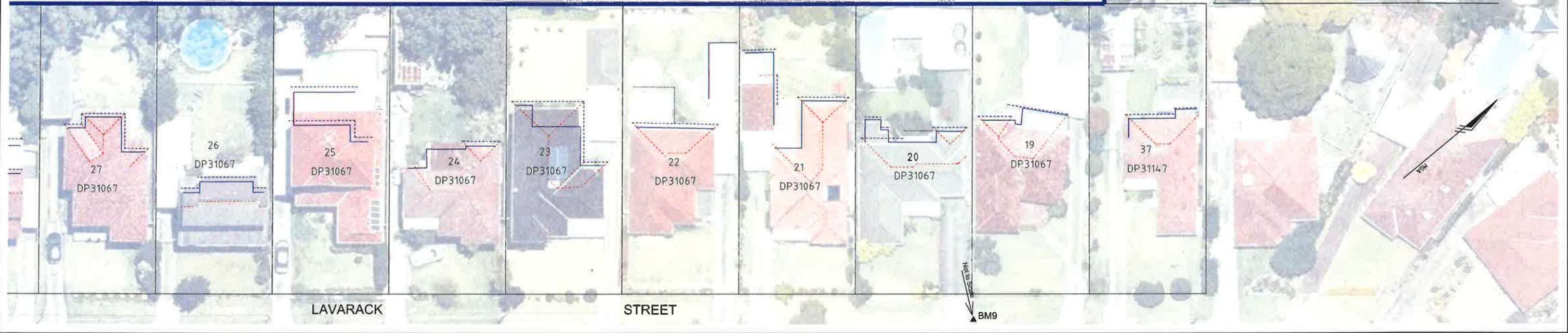

**NSW Government**  
**Planning & Environment**  
 Issued under the Environmental Planning and Assessment Act 1979  
 Approved Application No. **SSD 8372**  
 granted on the **02 NOV 2018**  
 Signed *aw*  
 Sheet No. **39** of **43**

18.10.2016 INITIAL VERSION ST DA JS SCALE: 1:250 MGA AHD PM48969 PM48969	<b>CONRAD GARRET</b> ARCHITECTS 17 YORK STREET SYDNEY NSW 2000 GPO BOX 3601 SYDNEY NSW 2001 02 9248 9800 F 02 9248 9830 www.conradgarrett.com.au	<b>CONTOUR &amp; DETAIL SURVEY</b> OVER SCHOOL SITE AT SMALLS ROAD, NORTH RYDE LOTS 1 & 2 ON DP830420 PR133183 School Site at Smalls Road-DET-A.dwg 4 of 5 sheets A1	<b>PR133183</b>  <b>A</b> <b>RPS</b>
--	--	--	--

RPS AUSTRALIA EAST PTY LTD (ABN 44 140 292 762)  
 17 YORK STREET SYDNEY NSW 2000 GPO BOX 3601 SYDNEY NSW 2001  
 02 9248 9800 F 02 9248 9830 www.rps.com.au  
 THIS IS A COLOURED PLAN REPRODUCTION IN COLOUR ONLY.

P:\PR133183 - 3 x Sydney School Sites, Fort St, Denistone East & Smalls Rd.10 - Drafting\Survey2, Detail\2016.10.18 PR133183 School Site at Smalls Road-DET-A.dwg 19.10.2016 5:46 PM





<b>PROJECT</b> CONTOUR & DETAIL SURVEY OVER SCHOOL SITE AT SMALLS ROAD, NORTH RYDE LOTS 1 & 2 ON DP830420		<b>CLIENT</b> CONRAD GARDEN		<b>DATE OF SURVEY</b> 14/10/2016 <b>DATE LAST SAVED</b> 18.10.2016 <b>DATE APPROVED</b>		<b>PROJECT NO.</b> PR133183 <b>SCALE</b> 1:250 <b>VERT. SCALE</b> @ A1 <b>COORDINATE</b> MGA <b>UNIT</b> AHD <b>ENGINER</b> PM48969 <b>DRAWN</b> PM48969		<b>NOTES</b> 1. THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.	
<b>REVISIONS</b> A 18.10.2016 INITIAL VERSION ST DA JS		<b>SCALE</b> IN METRES AT ORIGINAL REDUCTION RATIO		<b>CONRAD GARDEN</b> ENGINEER & ARCHITECT 1/100 YORK STREET SYDNEY NSW 2000 T: 02 9248 9800 F: 02 9248 9810 www.conradgarden.com.au		<b>CREATIVE PEOPLE</b> 5 of 5 SHEETS A1		<b>RPS AUSTRALIA EAST PTY LTD</b> (ABN 64 340 292 767) LEVEL 18, 11 YORK STREET SYDNEY NSW 2000 GPO BOX 4881 SYDNEY NSW 2001 T: 02 9248 9800 F: 02 9248 9810 www.rps.com.au	

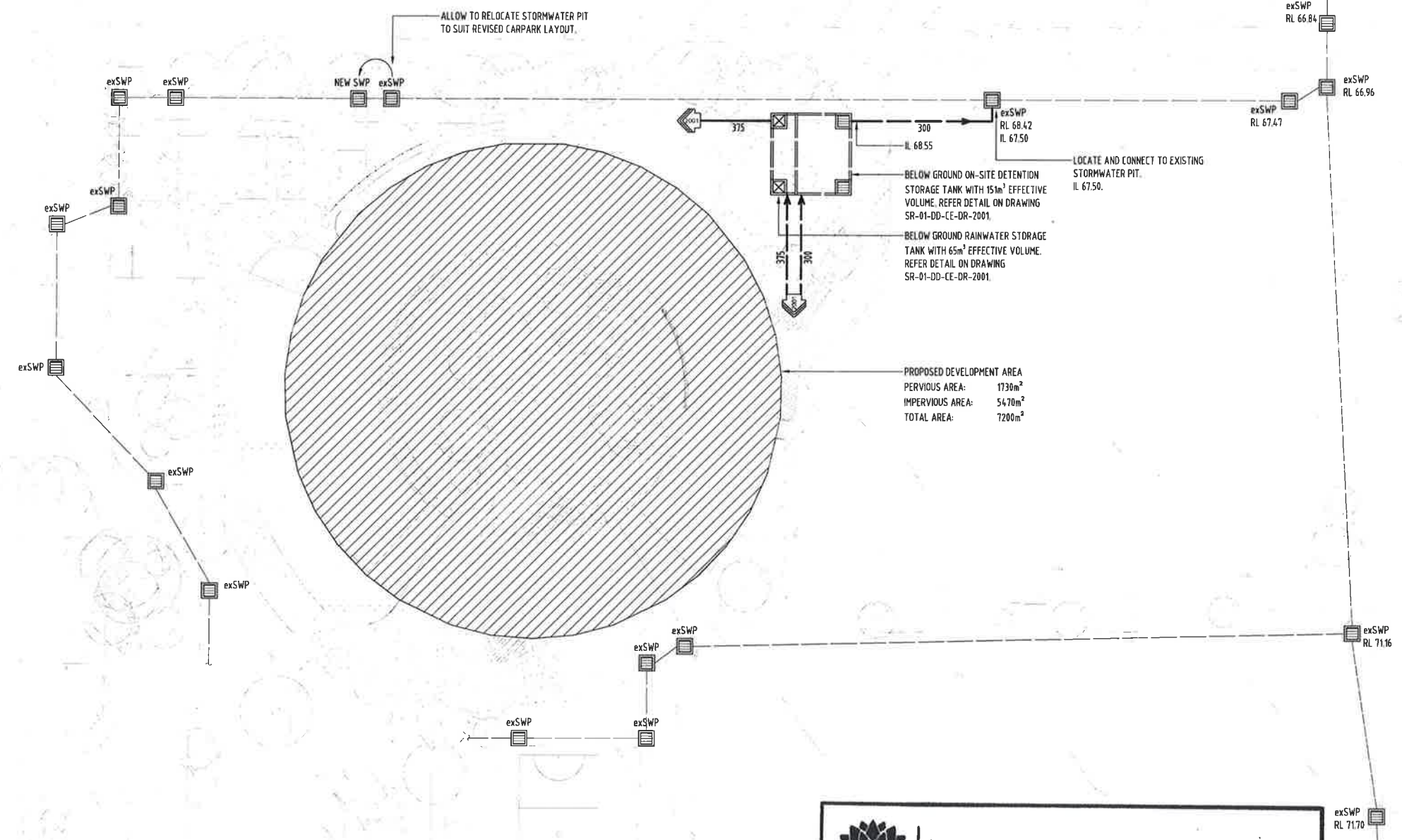


**STORMWATER NOTES:**

- ORIGIN OF LEVELS SHOWN ARE TO 'AUSTRALIAN HEIGHT DATUM' (AHD) U.N.D.
- ALL LEVELS TO BE CONFIRMED WITH ARCHITECTURAL DWGS AND SURVEY DWGS.
- ALL INLET AND OUTLET LEVELS ARE FROM BOTTOM OF THE PIPES.
- ALL EXISTING LEVELS AND FINAL LEVELS TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- CARE TO BE TAKEN WITH LEVELS ON STORM WATER LINES AND GRADES SHOWN ARE NOT TO BE REDUCED. LEVELS ARE NOT TO BE ALTERED WITHOUT THE APPROVAL OF THE DESIGNER.
- LOCATION OF THE EXISTING SERVICES IS APPROXIMATE ONLY. CONTRACTOR SHALL CHECK LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND ACCEPT FULL RESPONSIBILITY FOR THE COST OF REPAIR AND CONSEQUENCES OF ANY DAMAGE WHICH MAY OCCUR TO THESE SERVICES AS A RESULT OF CONSTRUCTION WORKS.
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EXISTING CONDITION BY THE CONTRACTOR AT COMPLETION OF THE WORK.
- ALL STORM WATER PITS TO BE PRECAST CONCRETE CONSTRUCTED AS PER LOCAL COUNCIL SPECIFICATION (STANDARD DETAILS) AND RELEVANT AUSTRALIAN STANDARD.
- SUB-SOIL DRAINAGE TO BE INSTALLED AS REQUIRED, INCLUDING BEHIND ALL RETAINING STRUCTURES, PLANTERS AND WHERE GROUND WATER IS ENCOUNTERED. SHALL BE 90mm SLOTTED UPVC PIPE WRAPPED IN CLOTH SOCK AND SURROUNDED WITH 150mm THICKNESS OF 20mm DIAMETER BLUE METAL AND SURROUNDED IN GEOTEXTILE FABRIC.
- ALL DOWNPIPES TO BE MINIMUM Ø150mm. REFER HYDRAULIC DRAWINGS FOR FINAL LOCATIONS.
- PIPEWORK SHALL BE LAID AT 1:100 MINIMUM GRADE UNLESS NOTED OTHERWISE. PIPEWORK MAY BE LAID AT STEEPER GRADES AS REQUIRED TO MEET COVER REQUIREMENTS OR AS NOMINATED BY PIPEWORK INVERT LEVELS.
- ALL EXTERNAL LEVELS TO FALL AWAY FROM BUILDING BUILDER TO ENSURE THRESHOLD REQUIREMENTS, OVERLAND FLOW PATHS TO BE MAINTAINED AROUND BUILDING TO PREVENT WATER INGRESS.
- PIPEWORK UP TO 300mm DIAMETER SHALL BE UPVC DRAINAGE WASTE GRADE WITH SOLVENT WELDED JOINTS. 375mm AND LARGER SHALL BE FRC PIPEWORK WITH RUBBER RING JOINTS.

**LEGEND:**

- DENOTES NEW STORMWATER PIPE LINE
- DENOTES EXISTING STORMWATER PIPE LINE
- DENOTES NEW SUB-SOIL PIPE LINE
- DENOTES NEW PUMP-OUT LINE
- DENOTES EXISTING LEVEL
- DENOTES PROPOSED LEVEL
- DENOTES NEW LEVEL  
RL DENOTES PROPOSED LEVEL  
INV DENOTES PIT INVERT LEVEL
- DENOTES EXIST CONTOUR LEVEL
- DENOTES NEW DOWN PIPES
- DENOTES DOWN PIPE WITH SPREADER
- DENOTES STORMWATER PIT
- DENOTES STORMWATER PIT (COVER)
- DENOTES RAIN WATER OUTLET
- DENOTES OVERFLOW POINT
- DENOTES CLEAR OUT POINT
- DENOTES LONGITUDINAL TRENCH GRATE
- DENOTES OVERLAND FLOW PATH
- DENOTES KERB INLET PIT



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GOVERNMENT

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Approved Application No. **SSD 8372**

granted on the **02 NOV 2018**

Signed

Sheet No. **41** of **43**

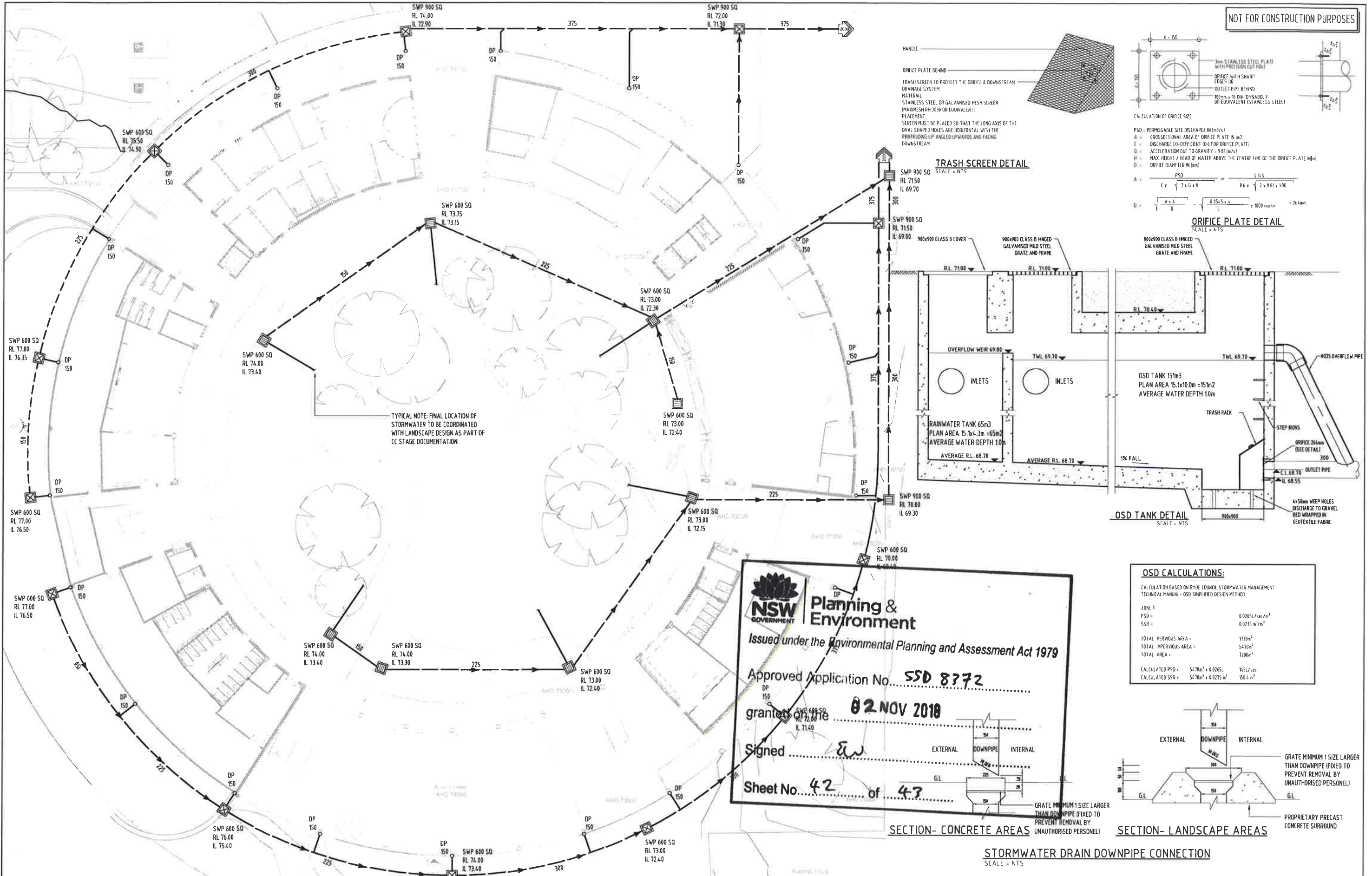
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DA	ISSUED FOR DA	27.09.17	PC	DA					

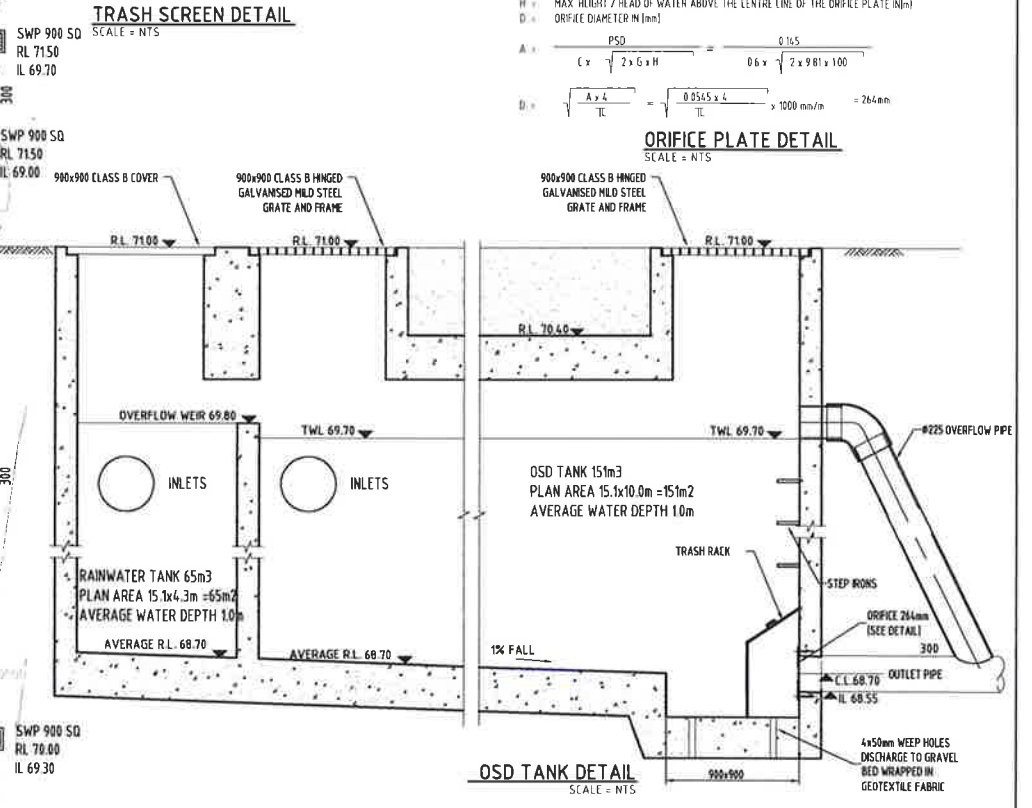
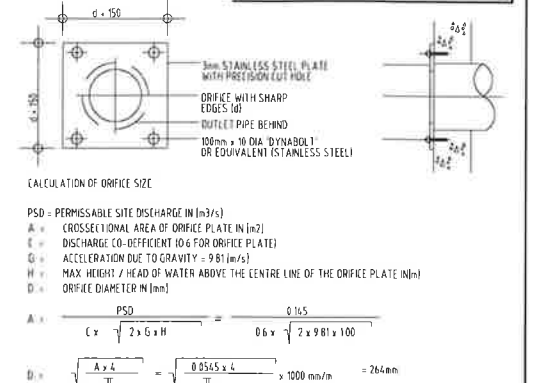
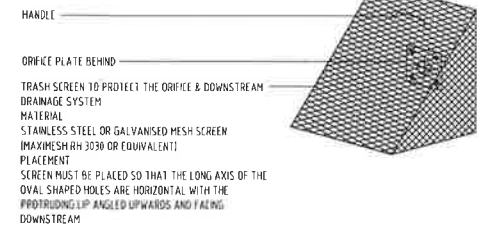
ARCHITECT	CLIENTS	PROJECT	NUMBER IN SET	MYD JOB NUMBER
CONRAD GARGET ANCHER MORTLOCK WOOLLEY	NSW Education & Communities	SECONDARY SCHOOLS RENEWAL PROGRAM GROUP 5A 38 SMALLS ROAD, RYDE PUBLIC SCHOOL	AS SHOWN	P2345
STRUCTURAL CIVIL TELECOMMUNICATIONS	MYD Consulting Engineers Pty Ltd	SITE STORMWATER PLAN	ISSUED BY	CHECKED BY
	Level 2, 19 Harris Street, Pyrmont, NSW 2009 Tel: 02 9817 2811 Fax: 02 9817 2633 Email: info@mydconsulting.com www.mydconsulting.com		PC	PM
			DRAWN BY	DATE
				27.09.17

DO NOT SCALE OFF DRAWINGS. FIGURED DIMENSIONS TO BE USED. ALL DIMENSIONS TO BE CHECKED ON SITE.





NOT FOR CONSTRUCTION PURPOSES



**OSD CALCULATIONS:**

CALCULATION BASED ON RYDE COUNCIL STORMWATER MANAGEMENT TECHNICAL MANUAL - OSD SIMPLIFIED DESIGN METHOD

ZONE 1		
PSD =	0.0265 L/sec/m <sup>2</sup>	
SSR =	0.0275 m <sup>3</sup> /m <sup>2</sup>	
TOTAL PERVIOUS AREA =	1336m <sup>2</sup>	
TOTAL IMPERVIOUS AREA =	5476m <sup>2</sup>	
TOTAL AREA =	7206m <sup>2</sup>	
CALCULATED PSD =	5476m <sup>2</sup> x 0.0265	145 L/sec
CALCULATED SSR =	5476m <sup>2</sup> x 0.0275	150.4 m <sup>3</sup>

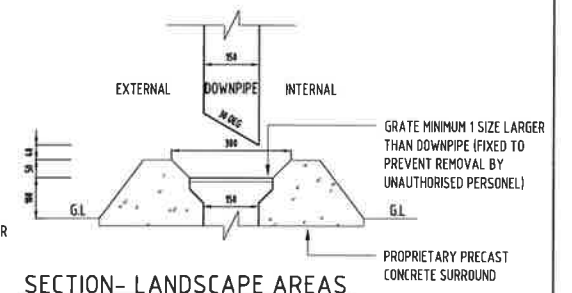
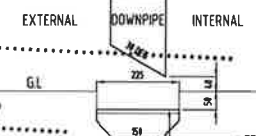
**NSW GOVERNMENT** Planning & Environment  
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Approved Application No. **SSD 8372**

granted on the **02 NOV 2018**

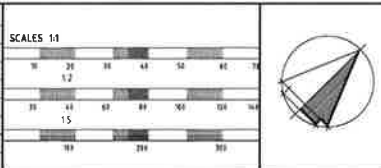
Signed *[Signature]*

Sheet No. **42** of **43**



STORMWATER DRAIN DOWNPIPE CONNECTION  
SCALE = NTS

REV	NOTES	DATE	ISSUED BY	CHECKED BY	REV	NOTES	DATE	ISSUED BY	CHECKED BY
A	PRELIMINARY ISSUE	07.08.17							
DA	ISSUED OR DA	27.09.17	PC	DD					



ARCHITECT  
**CONRAD GARGETT** ANCHER MORTLOCK WOOLLEY

**myd** MYD Consulting Engineers Pty Ltd  
Level 2, 19 Harris Street, Pyrmont, NSW 2009  
Tel: 02 9817 2811 Fax: 02 9817 2833 Email: info@mydconsulting.com www.mydconsulting.com

CLIENTS  
**NSW GOVERNMENT** Education & Communities

PROJECT SECONDARY SCHOOLS RENEWAL PROGRAM GROUP 5A 38 SMALLS ROAD, RYDE PUBLIC SCHOOL	NUMBER IN SET SCALE 1:200	MYD JOB NUMBER P2345
DRAWING TITLE SITE STORMWATER PLAN	ISSUED BY PC	CHECKED BY PM
	DRAWN BY	DATE 27.09.17



NOT FOR CONSTRUCTION PURPOSES

**EROSION & SEDIMENT CONTROL NOTES**

**MINIMUM REQUIREMENTS**  
**GENERAL**  
 PROVIDE ON SITE CONTROLS THROUGHOUT THE ENTIRE WORKS TO ENSURE MINIMUM EROSION AND SEDIMENT LOSS.  
 ENSURE LEAST DISTURBANCE TO SITE.  
 AS EACH AREA IS COMPLETED, THAT AREA IS TO BE IMMEDIATELY/PROGRESSIVELY SEEDED AND FERTILISED. SILT FENCES, STRAW BALES OR OTHER CONTROLS NEED TO BE PROVIDED UNTIL THE SITE IS STABLE. SHOULD THIS APPROACH NOT BE PRACTICAL THE PROGRESSIVE REVEGETATION OF INDIVIDUAL AREAS WILL BE REQUIRED.

WHERE THERE IS GRADE ON OTHER AREAS OF THE SITE THAT MAY LEAD TO EROSION, FURTHER APPROPRIATE TREATMENT IS TO BE LOCATED TO CONTROL EROSION i.e. STRAW BALES  
 THE PROVISION AND MAINTENANCE OF (SEDIMENT) SILT FENCES WILL BE NECESSARY DURING THE CONSTRUCTION PHASE, WHEN INSTRUCTED BY THE COUNCIL PROGRESSIVELY REMOVE INDIVIDUAL SECTIONS OF SILT FENCES FOR CLEANING. CLEANING OF FENCES TO BE CARRIED OUT DURING PERIODS OF DRY WEATHER.

**FILL AREAS**  
 RUN-OFF AND SEDIMENT LOSS FROM THE AREAS OF FILL MUST BE CONTROLLED DURING AND AFTER CONSTRUCTION. BEFORE REVEGETATION TAKES PLACE USING SILT FENCES AND OR STRAW BALES AS INSTRUCTED BY THE PROJECT MANAGER/COUNCIL TO DIRECT WATER FROM THE DISTURBED AREA. OTHER MEASURES SHALL BE CARRIED OUT AS DIRECTED BY THE COUNCIL AND/OR AS SHOWN ON THE PLANS.

**STOCK PILES**  
 THE STOCK PILE LOCATION SHOWN ON THE PLAN IS PRELIMINARY. SHOULD THE BUILDER WISH TO RELOCATE THE STOCKPILE, HE SHOULD OBTAIN APPROVAL FROM COUNCIL PRIOR TO COMMENCEMENT OF WORKS. THE BUILDER SHALL PRODUCE DRAWINGS INDICATING THE LOCATION OF STOCK PILES.

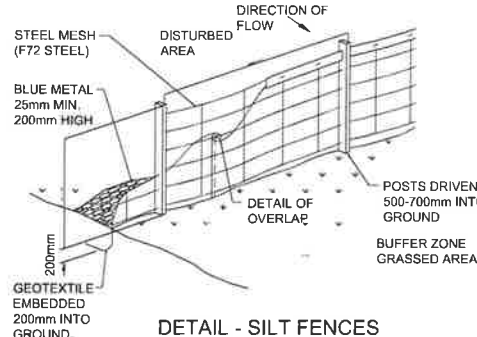
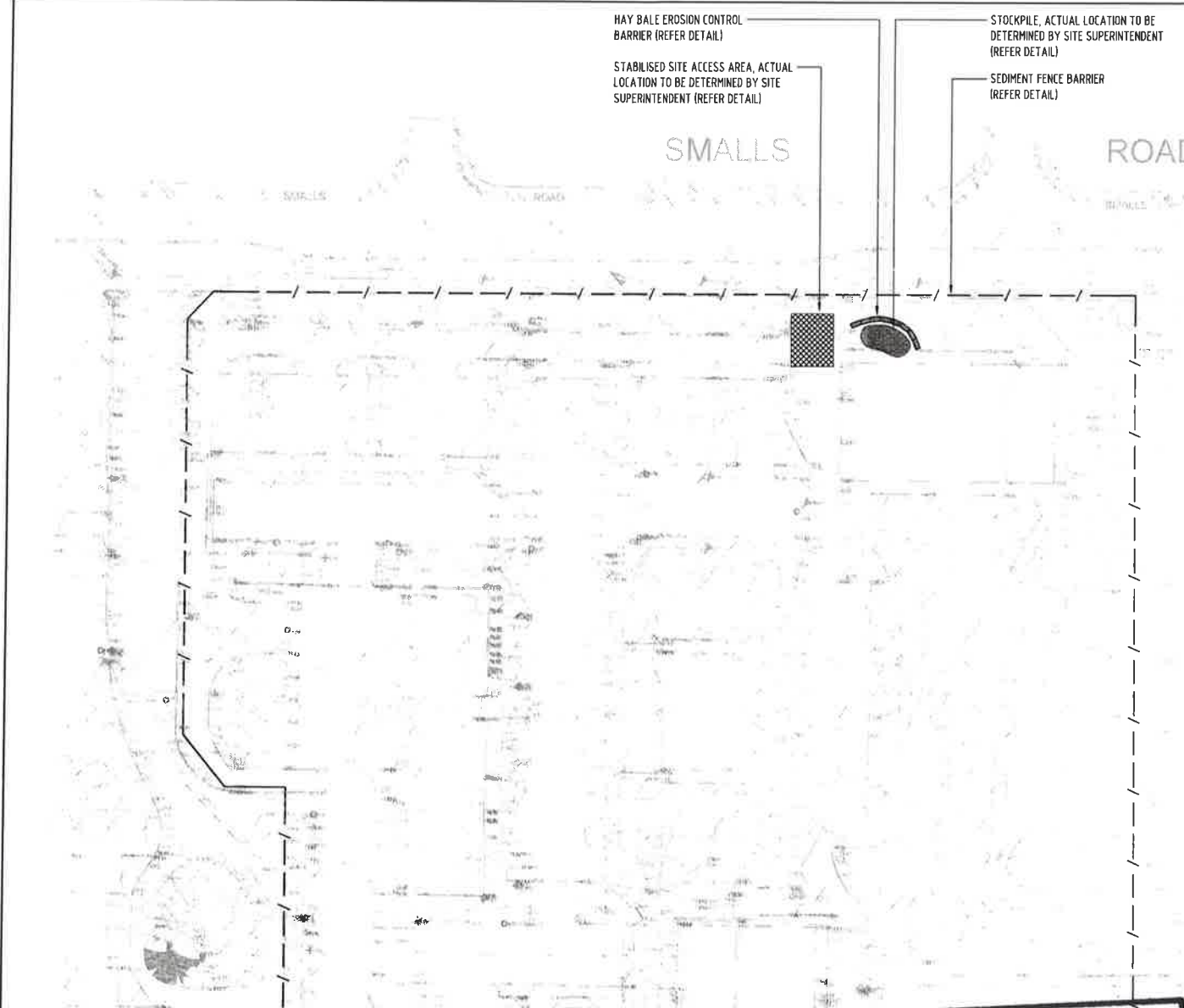
STOCK PILE SITES SHALL BE LOCATED AWAY FROM EXISTING OR PROPOSED DRAINAGE LINES OR AREAS LIKELY TO BE DISTURBED DURING CONSTRUCTION. STOCK PILE SITES SHALL NOT BE LOCATED WITHIN THE DRIP ZONE OF TREES.

STOCK PILE SITES MUST BE PROTECTED FROM EROSION AND SEDIMENT LOSS BY THE INSTALLATION OF SILT FENCES/STRAW BALES OR OTHER CONTROLS APPROVED BY COUNCIL.

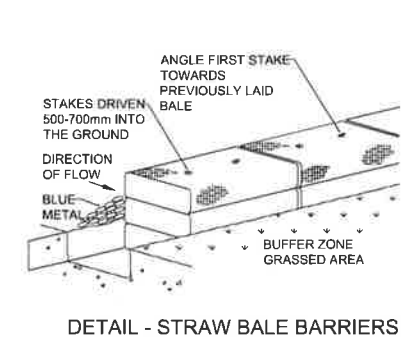
**WIND EROSION**  
 TO MINIMISE WIND EROSION DURING CONSTRUCTION, THE GROUND SURFACE SHOULD BE KEPT DAMP (NOT WET). THE SURFACE SHOULD BE LEFT IN A ROUGH CLODDY CONDITION TO INCREASE ROUGHNESS AND SLOW SURFACE WIND SPEED.

**LOCATION**  
 LOCATION OF SEDIMENT CONTROL METHODS i.e. SILT FENCES ARE SHOWN DIAGRAMMATICALLY ONLY ON DRAWING. FINAL LOCATION, EXTENT AND TYPE OF SEDIMENT CONTROL METHODS SHALL BE TO THE SATISFACTION OF COUNCIL.

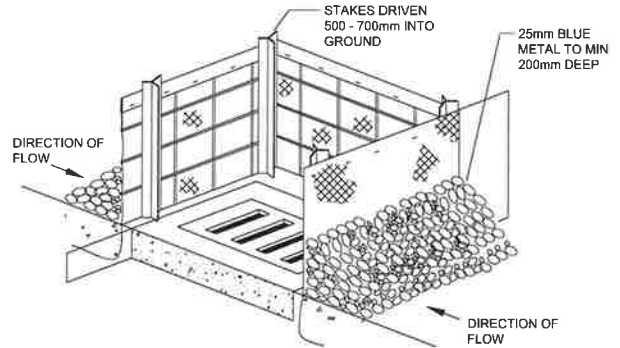
**THE CONTRACTOR, UNDER SECTION 16 OF THE CLEAN WATERS ACT, IS LIABLE FOR THE DEPOSITION OF ANY CONTAMINANTS DEPOSITED ON ROADWAYS AFTER LEAVING THE CONSTRUCTION SITE.**



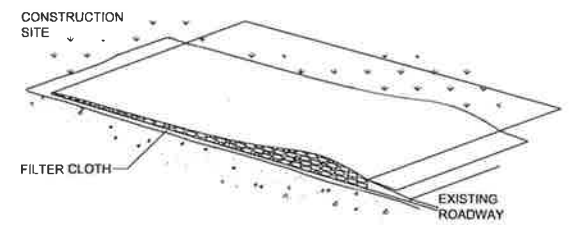
**SILT FENCES**  
**DESCRIPTION**  
 SILT FENCES ARE TEMPORARY BARRIERS MADE FROM A COMBINATION OF FILTER CLOTH AND BLUE METAL  
**USAGE**  
 SILT FENCES FILTER RUN-OFF LEAVING THE SITE TRAPPING THE SEDIMENT AND ALLOWING CLEAN FILTERED WATER TO PASS. SILT FENCES ARE TO BE PLACED ON THE CONTOUR OR SLIGHTLY CONVEX TO THE CONTOUR. IF ON THE CONTOUR, EACH END OF THE FENCE SHOULD BE TURNED UP TO CREATE A 'STILLING POND' UP SLOPE OF THE FENCE. WHERE POSSIBLE, A SILT FENCE SYSTEM SHOULD BE NO LONGER THAN ABOUT 20 METRES. THEY SHOULD NOT INTERCEPT LARGE CONCENTRATED OR CHANNELISED FLOWS.  
**INSTALLATION**  
 THE AREA BELOW A SILT FENCE MUST BE UNDISTURBED ON STABILISED GROUND.  
**MAINTENANCE**  
 SILT FENCES REQUIRE REGULAR MAINTENANCE. TRAPPED SEDIMENTS SHOULD BE REMOVED, PICKETS STRAIGHTENED, FILTER CLOTH RESECURED AND TIGHTENED AND BLUE METAL REPLACED WHEN HEAVILY CONTAMINATED WITH SILT.  
**NOTE**  
 FILTER FABRIC SHALL BE EQUIVALENT TO 'GEOLAB' AND BE CAPABLE OF INTERCEPTING SILT PARTICLES DOWN TO 2 MICRON IN SIZE.



**STRAW BALE BARRIERS**  
**DESCRIPTION**  
 A TEMPORARY BARRIER OF STRAW BALES PLACED AROUND THE PERIMETER OF A DISTURBED AREA.  
**USAGE**  
 STRAW BALE BARRIERS ARE USED TO DESILT CONTAMINATED WATER  
**INSTALLATION**  
 STRAW BALES ARE ONLY EFFECTIVE ON SITES OF LESS THAN HALF A HECTARE. THE BALES SHOULD BE PLACED LENGTHWISE IN 100mm DEEP TRENCHES WITH THEIR BINDING ROPE HORIZONTAL TO THE GROUND.  
 THE BALES SHOULD BE CONNECTED AND ANCHORED TO THE GROUND BY DRIVING TWO STAR PICKETS OR POSTS THROUGH EACH BALE. THE FIRST STAKE MUST BE DRIVEN TOWARDS THE ADJOINING BALE AT A 45° ANGLE TO FORCE THE BALES TOGETHER.  
**MAINTENANCE**  
 AFTER RAINFALL STRAW BALE BARRIERS SHOULD BE INSPECTED AND SEDIMENT REMOVED. DAMAGED BALES SHOULD BE REPAIRED OR REPLACED. BALES HAVE A LIFE EXPECTANCY OF THREE TO SIX MONTHS.  
**NOTE**  
 THE LOCATION OF STRAW BALES ON THE ABOVE SITE PLAN IS DIAGRAMMATIC ONLY. THE REQUIREMENT FOR THE USAGE OF STRAW BALES IS TO BE AS A SUPPLEMENTARY MEASURE TO ASSIST THE SILT FENCES. FINAL LOCATIONS AND EXTENT OF STRAW BALES TO BE DETERMINED BY THE COUNCIL.



**DETAIL: STORM INLET SEDIMENT TRAP**  
**STORM INLET SEDIMENT TRAP**  
**DESCRIPTION**  
 THESE ARE TEMPORARY DE-SILTING STRUCTURES.  
**USAGE**  
 SUCH SEDIMENT TRAPS ARE USED AT STORMWATER INLETS AND OUTLETS, CULVERT ENTRIES AND POINTS WHERE RUN-OFF FROM DISTURBED CATCHMENTS SUCH AS CONSTRUCTION SITES IS DISCHARGED.  
**GENERAL REQUIREMENTS**  
 SEDIMENT TRAPS ARE BUILT FROM STRAW BALES, WASHED GRAVEL, GABIONS OR SANDBAGS (OR SARLON TYPE MATERIALS) FILLED WITH BLUE METAL. THE CHOICE OF MATERIAL OR TYPE OF STRUCTURE DEPENDS ON THE SIZE OF THE DRAINAGE AREA AND THE PHYSICAL STRUCTURE SURROUNDING THE SEDIMENT TRAP. CONSTRUCTION MATERIALS TO BE CONFIRMED BY COUNCIL.  
**MAINTENANCE**  
 SEDIMENT TRAPS SHOULD BE REGULARLY MAINTAINED AND RESTORED TO THEIR ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO HALF OF THE DESIGNED CAPACITY. THE OUTLET SHOULD BE CONSTRUCTED AND MAINTAINED TO ENSURE EROSION DOES NOT OCCUR. MAINTENANCE PROGRAM SHALL BE AS REQUESTED BY COUNCIL.



**DETAIL - SHAKE DOWN AREA/ACCESS STABILISATION**  
**SHAKE DOWN AREAS/ACCESS STABILISATION**  
**DESCRIPTION**  
 STABILISED ACCESS SHALL BE A BED OF AGGREGATE ON FILTER CLOTH. GRADE THE ENTRANCE SO THAT IT IS AT LEAST 15 METRES LONG WITH A MINIMUM WIDTH OF 3 METRES FOR A ONE WAY ENTRANCE AND 6 METRES FOR A TWO WAY ENTRANCE. PLACE FILTER CLOTH OVER THE ENTIRE AREA AND COVER IT WITH 150mm MINIMUM THICKNESS OF 50mm AGGREGATE RIVER GRAVEL OR A RECYCLED OR RECLAIMED CONCRETE EQUIVALENT.  
**USAGE**  
 SUCH STRUCTURES SHALL BE USED AT ALL POINTS WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE THE SITE AND EXISTING ROADWAYS.  
**TREATMENT/MAINTENANCE**  
 SURFACE WATER FLOWING TO THE ENTRANCE MUST BE PIPED UNDER THE ENTRANCE, OR A BERM CONSTRUCTED TO DIRECT SURFACE FLOW AWAY FROM THE ROAD.  
 ALL DEPOSITS ARE TO BE REGULARLY CLEARED FROM SITE ACCESS.  
 THE DRAWBAR, TAILGATE ETC OF ANY VEHICLE INVOLVED IN THE TRANSPORT OF GRAVEL ETC TO A CONSTRUCTION SITE MUST BE MANUALLY CLEANED OF MATERIAL BEFORE THE VEHICLE LEAVES THE SITE.  
 SHOULD THE MATERIAL BE DEPOSITED ON THE ROADWAY ETC, SUCH MATERIAL SHALL BE SWEEPED AND REMOVED FROM THE ROADWAY.

**NSW GOVERNMENT Planning & Environment**  
 Issued under the Environmental Planning and Assessment Act 1979  
 Approved Application No. **SSD 8372**  
 granted on the **02 NOV 2018**  
 Signed *[Signature]*  
 Sheet No. **43** of **43**

REV.	NOTES	DATE	ISSUED BY	CHECKED BY	REV.	NOTES	DATE	ISSUED BY	CHECKED BY
A	PRELIMINARY ISSUE	07.08.17							
DA	ISSUED FOR DA	27.09.17	PC	DA					

SCALES 1:1	0 20 40 60 80 100 120 140 160 180 200 300
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ARCHITECT	CONRAD GARGETT ANCHER MORTLOCK WOOLLEY
CLIENTS	NSW GOVERNMENT Education & Communities
PROJECT	SECONDARY SCHOOLS RENEWAL PROGRAM GROUP 5A 38 SMALLS ROAD, RYDE PUBLIC SCHOOL
NUMBER IN SET	1500
HYD JOB NUMBER	P2345
SHEET NUMBER	SR-01-DD-CE-DR-2100-DA
DRAWING TITLE	EROSION & SEDIMENT CONTROL PLAN
ISSUED BY	PC
CHECKED BY	PH
DATE	27.09.17

DO NOT SCALE OFF DRAWINGS  
 FIGURED DIMENSIONS TO BE USED. ALL DIMENSIONS TO BE CHECKED ON SITE