





No	AMENDMENTS	Ву	Date
Α	DA ISSUE	MT	23.02.18







ARCHITECTS INTERIORS LANDSCAPE PLANNING

OFFICE:

Suite 4.04, Level 4, No: 5 Celebration Drive BELLA VISTA NSW 2153
PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04
email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROJECT:
PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

DRAWING TITLE:
PERSPECTIVES 01

DRAWN: MT CHECKED: SIMON OCHUDZAWA MAIA #6865

DATE: 23/02/18 SCALE: AS SHOWN

PROJECT No:

047-15/16

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JNIT NUMBER	ADAPT. UNIT 1	ADAPT. UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8		UNIT 1	UNIT 2	UNIT 3	UNIT 4	ADAPT. UNIT 5	ADAPT.UI	IT 6 UN	IT 7 UNIT	8
UNIT PER FLOOR	1		1	Į į		1 1	1	1		1	1	1	1		1	1	1	1
TOTAL UNITS	8									8						-	-	- 10
AREA PER UNIT (sqm)	50	5(0 70	7	7	9 73	78	71		95	95	70	70	7	35	84	74	71
TOTAL GFA	546									644								
BALCONY AREA PER UNIT (sqm)	8	1	8 1	1	1 1	2 13	10	10		15	17	11	12		14	13	10	10
BALCONY AREA PER FLOORS (sqm)	82		1							102								
TERRACE AREA	0									0								
BEDROOMS PER UNIT	1		al .	2		al a	1 3	2	-	3	3	2	2		2	2	2	2
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UNIT NUMBER	UNIT 1	UNIT 2	UNIT 3	UNIT 4	ADAPT, UNIT 5	ADAPT. UNIT 6	UNIT 7	UNIT 8		UNIT 1	UNIT 2	UNIT 3	UNIT 4	ADAPT. UNIT 5	ADAPT. U	IIT 6 UN	IT7 UNIT	8
UNIT PER FLOOR	1		1	L :		1	1	1		1	1	1	1		1	1	1	1
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	102			- 1	1	1 :13	1 20	49	4	102		44				19		
BALCONY AREA PER FLOORS (sqm)	7																	
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UNIT NUMBER	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	ADAPT. UNIT 6			Įį.	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT			
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TOTAL UNITS	6			77		-	1 1	- 10	*	6			- 7		100		-	- 11
	73	7.	1 7.	7	8	3 75	r i	7	1	73	74	72	77		33	75		-
AREA PER UNIT (sqm)		12	1	4 /	7 8	3 /3			4		71	72	1.7	- 1	53	75		_
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BALCONY AREA PER UNIT (sqm)	14		2 1	1	1	1 12			-14	14	10000	10	12		11	12		- 6
BALCONY AREA PER FLOORS (sqm)	71									71								
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UNIT 2 BEDROOMS UNIT 3 BEDROOMS	2 36 6																	
UNIT 2 BEDROOMS UNIT 3 BEDROOMS	2 36 6																	
UNIT 2 BEDROOMS UNIT 3 BEDROOMS	2 36 6																	
UNIT 2 BEDROOMS UNIT 3 BEDROOMS	2 36 6	ALCULATION																
JNIT 2 BEDROOMS JNIT 3 BEDROOMS	2 36 6 44 STORAGE AREA CA	1000000	Storage size volume	Required (m²)	Provided					ADAPTARI	E UNIT RE	UIREMENT			GF	6.01	6,07	
JNIT 2 BEDROOMS JNIT 3 BEDROOMS	2 36 6 44 STORAGE AREA CA	Number	Storage size volume	Required (m²)		62m² x 2.55m Helel	nt = 158.1m ³			ADAPTABI	E UNIT REC	QUIREMENT			GF L1	G.01		
JNIT 2 BEDROOMS JNIT 3 BEDROOMS	2 36 6 44 STORAGE AREA Co	Number 0	4		BASEMENT 1	62m² x 2.55m Heigi	20.2.10.100								GF LI	1.05	1.06	- 1
JNIT 2 BEDROOMS JNIT 3 BEDROOMS	2 36 6 44 STORAGE AREA CADWelling Type Studio 1 BED	Number 0 2	4 6	12		62m² x 2.8m Heigh	t = 173.6m³			(ALLOCATE	20% OF TO	TAL UNIT)			GF L1 L2	1.05 2.05	1.06 2.06	
JNIT 2 BEDROOMS JNIT 3 BEDROOMS	2 36 6 44 STORAGE AREA CAD Welling Type Studio 1 BED 2 BED	0 2 36	4 6 8	12 288	BASEMENT 1		t = 173.6m³			(ALLOCATE	20% OF TO		LE UNITS		GF L1 L2 L3	1.05	1.06 2.06 3.06	1 3
JNIT 2 BEDROOMS JNIT 3 BEDROOMS	2 36 6 44 STORAGE AREA CAD Dwelling Type Studio 1 BED 2 BED 3 BED	0 2 36 6	4 6	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³			(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF t1 t2 t3 t4	1.05 2.05	1.06 2.06	2 2 3
JNIT 2 BEDROOMS JNIT 3 BEDROOMS OTAL	2 36 6 44 STORAGE AREA CAD Dwelling Type Studio 1 BED 2 BED 3 BED TOTAL	0 2 36 6 44	4 6 8	12 288	BASEMENT 1	62m² x 2.8m Heigh	t = 173.6m³			(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
JUIT 2 BEDROOMS JUIT 3 BEDROOMS TOTAL TOTAL TOTAL LOBBY AREA	2 36 6 44 STORAGE AREA CAD Dwelling Type Studio 1 BED 2 BED 3 BED	0 2 36 6 44	4 6 8	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³			(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06	
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INIT 2 BEDROOMS INIT 3 BEDROOMS OTAL OTAL OTAL LOBBY AREA LESIDENTIAL PARKING REQUIRED	2 36 6 44 STORAGE AREA CAD Dwelling Type Studio 1 BED 2 BED 3 BED TOTAL	0 2 36 6 44	4 6 8 10	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	50 50	СР	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
JUIT 2 BEDROOMS JUIT 3 BEDROOMS TOTAL TOTAL LOBBY AREA RESIDENTIAL PARKING REQUIRED RESIDENTIAL CAR SPACES PROVIDED	2 36 6 44 STORAGE AREA CAD Dwelling Type Studio 1 BED 2 BED 3 BED TOTAL	Number 0 2 36 6 44 com dwelling, 2 spaces	4 6 8 10 per 3 or more bedroom dwelling	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	50 50 9	W. Control	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
JUNIT 2 BEDROOMS JUNIT 3 BEDROOMS TOTAL TOTAL LOBBY AREA RESIDENTIAL PARKING REQUIRED RESIDENTIAL CAR SPACES PROVIDED JUSTION CAR SPACES REQUIRED	2 36 6 44 STORAGE AREA CAD Dwelling Type Studio 1 BED 2 BED 3 BED TOTAL 254 1 space per 1 or 2 bedra	Number 0 2 36 6 44 com dwelling, 2 spaces	4 6 8 10 per 3 or more bedroom dwelling	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	50	СР	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
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JUIT 2 BEDROOMS JUIT 3 BEDROOMS FOTAL FOTAL LOBBY AREA RESIDENTIAL PARKING REQUIRED RESIDENTIAL CAR SPACES PROVIDED JUISTOR CAR SPACES REQUIRED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED	2 36 6 44 STORAGE AREA Control Dwelling Type Studio 1 BED 2 BED 3 BED TOTAL 254 1 space per 1 or 2 bedre	Number 0 2 36 6 44 coom dwelling, 2 spaces for visitor parking (or p	4 6 8 10 per 3 or more bedroom dwelling	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	9 9	CP CP CP CP CP	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
JUIT 2 BEDROOMS JUIT 3 BEDROOMS FOTAL FOTAL LOBBY AREA RESIDENTIAL PARKING REQUIRED RESIDENTIAL CAR SPACES PROVIDED JUISTOR CAR SPACES REQUIRED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED JOSABLE PARKING SPACE PROVIDED	2 36 6 44 STORAGE AREA Control Dwelling Type Studio 1 BED 2 BED 3 BED TOTAL 254 1 space per 1 or 2 bedre	Number 0 2 36 6 44 coom dwelling, 2 spaces for visitor parking (or p	4 6 8 10 per 3 or more bedroom dwelling	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	9 9 9 4.4 5	CP CP CP CP	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
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UNIT 2 BEDROOMS UNIT 3 BEDROOMS TOTAL TOTAL LOBBY AREA RESIDENTIAL PARKING REQUIRED RESIDENTIAL CAR SPACES PROVIDED VISITOR CAR SPACES PROVIDED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE REQUIRED TOTAL CAR SPACES REQUIRED TOTAL CAR SPACES PROVIDED SITE AREA DEEP SOIL REQUIRED	2 36 6 44 STORAGE AREA CAD Welling Type Studio 1 BED 2 BED 3 BED TOTAL 1 space per 1 or 2 bedra 1 space per 5 dwellings 10% OFF TOTAL RESIDE	Number 0 2 36 6 44 coom dwelling, 2 spaces for visitor parking (or p	4 6 8 10 per 3 or more bedroom dwelling	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	50 9 9 4.4 5 59 59 1686.19 252.9285	CP CP CP CP CP CP CP Sqm	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF L1 L2 L3 L4 L5	1.05 2.05	1.06 2.06 3.06 4.06	
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UNIT 2 BEDROOMS UNIT 3 BEDROOMS FOTAL FOTAL LOBBY AREA RESIDENTIAL PARKING REQUIRED RESIDENTIAL CAR SPACES PROVIDED VISITOR CAR SPACES REQUIRED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE REQUIRED DISABLE PARKING SPACE PROVIDED FOTAL CAR SPACES REQUIRED FOTAL CAR SPACES PROVIDED SITE AREA	2 36 6 44 STORAGE AREA CAD Welling Type Studio 1 BED 2 BED 3 BED TOTAL 1 space per 1 or 2 bedra 1 space per 5 dwellings 10% OFF TOTAL RESIDE	Number 0 2 36 6 44 coom dwelling, 2 spaces for visitor parking (or p	4 6 8 10 per 3 or more bedroom dwelling	12 288 60	BASEMENT 1 BASEMENT 2	62m² x 2.8m Heigh 33m² x 1.8m Heigh	t = 173.6m³	50 9 9 4.4 5 59 59 1686.19 252.9285	CP CP CP CP CP CP Sqm Sqm Sqm	(ALLOCATE	20% OF TO	TAL UNIT)	LE UNITS		GF t.1 t.2 t.3 t.4 t.5	1.05 2.05	1.06 2.06 3.06 4.06	2 2 3 1

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No	AMENDMENTS	Ву	Date
Α	DA ISSUE	MT	23.02.1
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ARCHITECTS INTERIORS LANDSCAPE PLANNING

OFFICE:

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PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04
email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROJECT: PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

DRAWING TITLE:
CALCULATION TABLE

DRAWN: MT CHECKED: SIMON OCHUDZAWA MAIA #6865 DATE: 23/02/18 SCALE: AS SHOWN PROJECT No:

047-15/16





VISUAL SCALE 1:100 @ A1

0m 4m 8m 12m 16m 20

VISUAL SCALE 1:200 @ A3



ARCHITECTS INTERIORS LANDSCAPE PLANNING

OFFICE:

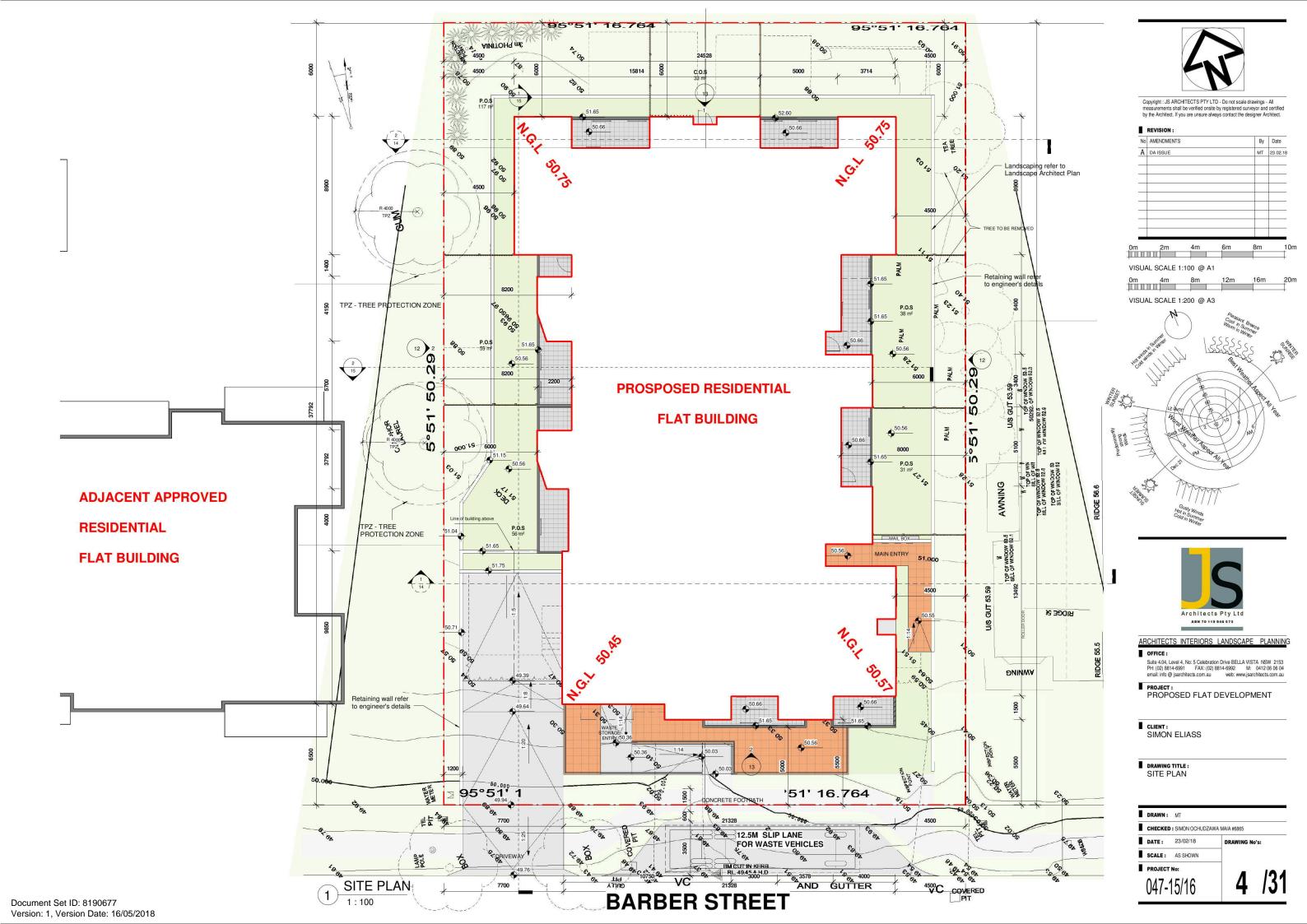
Suite 4,04, Level 4, No: 5 Celebration Drive BELLA VISTA NSW 2153 PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04 email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

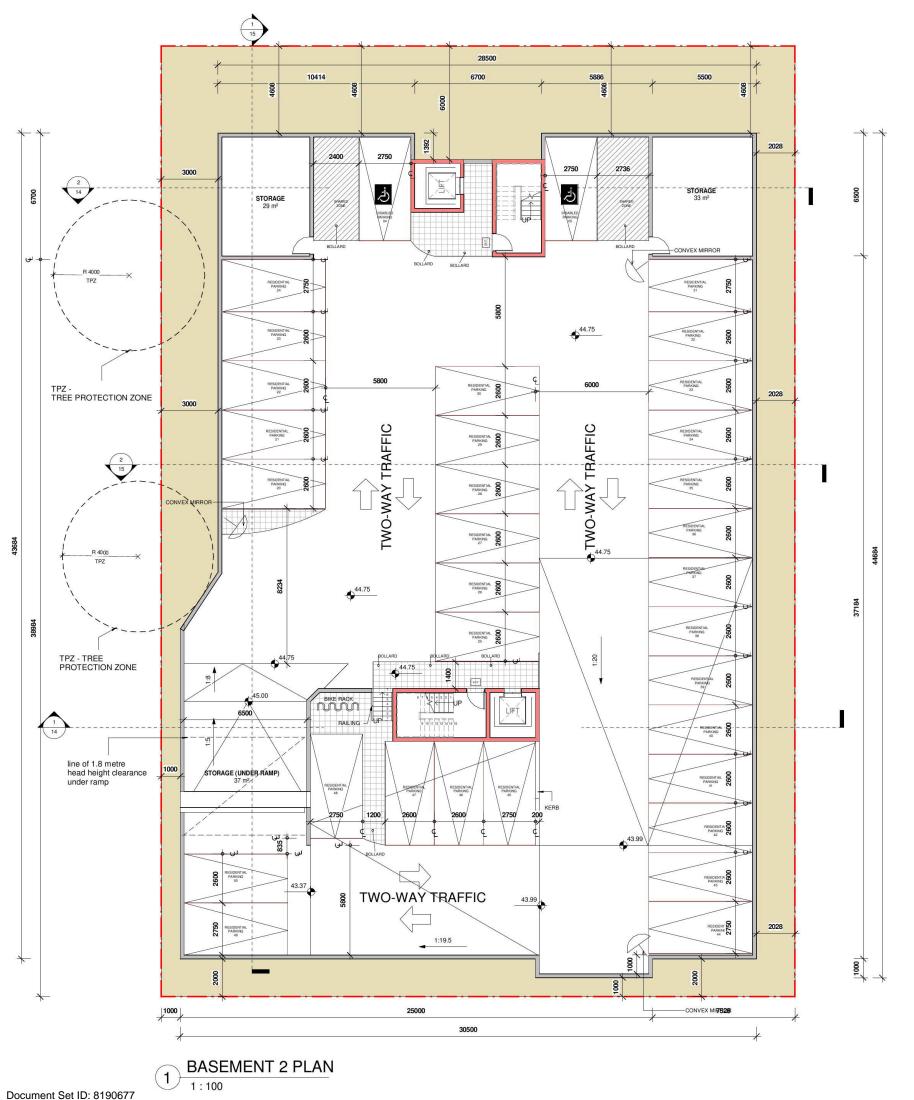
PROPOSED FLAT DEVELOPMENT

CLIENT: SIMON ELIASS

DRAWING TITLE:
DEMOLITION PLAN

I	CHECKED	: SIMON OCHUDZA	AWA MAIA #6865	
ı	DATE:	23/02/18	DRAWING N	o's:
ı	SCALE:	AS SHOWN		
	PROJECT	No:		10.4







REVISION: No AMENDMENTS A DA ISSUE MT 23.02.18

VISUAL SCALE 1:200 @ A1



OFFICE:

Suite 4.04, Level 4, No: 5 Celebration Drive BELLA VISTA NSW 2153 PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04 email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROJECT:
PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

DRAWING TITLE:
BASEMENT 2

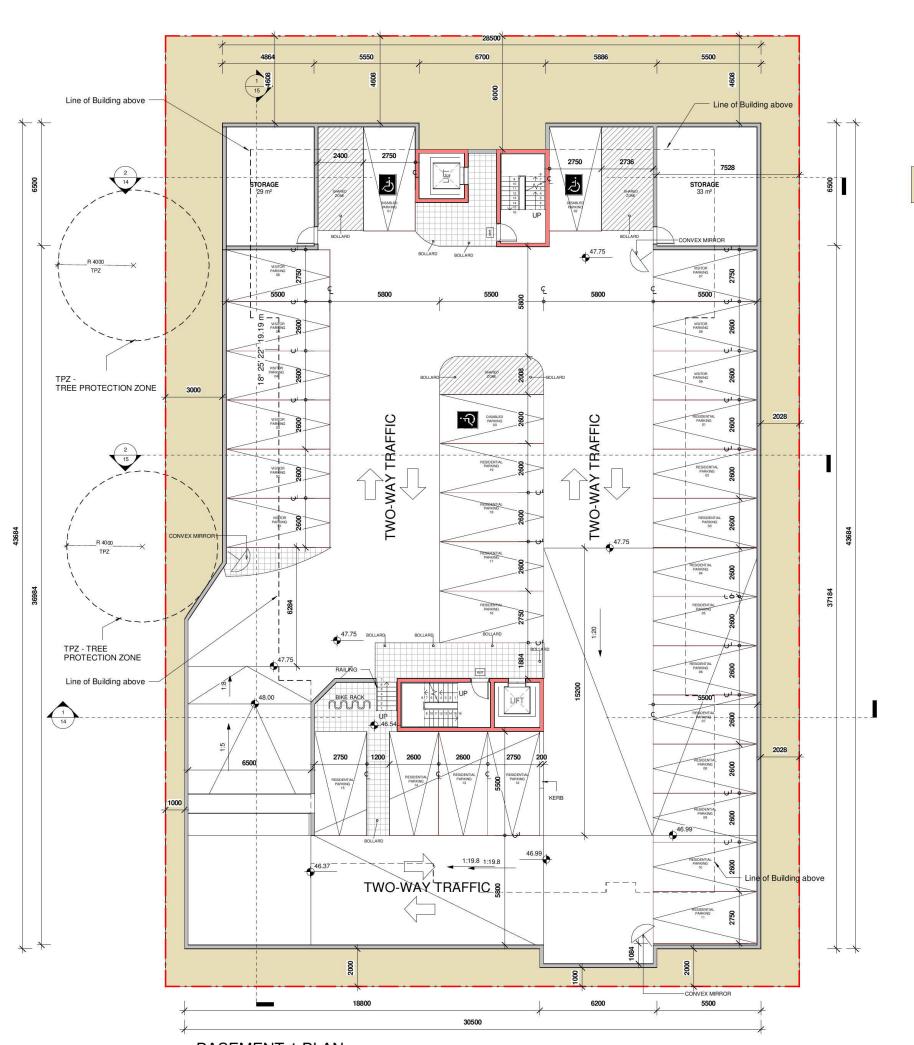
DRAWN: MT CHECKED: SIMON OCHUDZAWA MAIA #6865 DATE: 23/02/18

SCALE: AS SHOWN PROJECT No:

047-15/16

5 /31

Version: 1, Version Date: 16/05/2018





REVISION: No AMENDMENTS A DA ISSUE MT 23.02.18

VISUAL SCALE 1:200 @ A1

PROPOSED DEEP SOIL = $406.436 \text{ m}^2 / 24.10\%$

REQUIRED DEEP SOIL = 252.93 m² / 15.00 %

SITE = 1686.19 m²

ARCHITECTS INTERIORS LANDSCAPE PLANNING OFFICE:

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PROJECT:
PROPOSED FLAT DEVELOPMENT

CLIENT: SIMON ELIASS

DRAWING TITLE:
BASEMENT 1

	DRAWN:	MT	
ı	CHECKED	: SIMON OCHUDZA	WA MAIA #6865
ı	DATE:	23/02/18	DRAWING No's
ī	SCALE:	AS SHOWN	

PROJECT No: 047-15/16

6 /31

Document Set ID: 8190677 Version: 1, Version Date: 16/05/2018 **BASEMENT 1 PLAN** 1:100





0m 2m 4m 6m 8m

VISUAL SCALE 1:100 @ A1

0m 4m 8m 12m 16m 20m

VISUAL SCALE 1:200 @ A3



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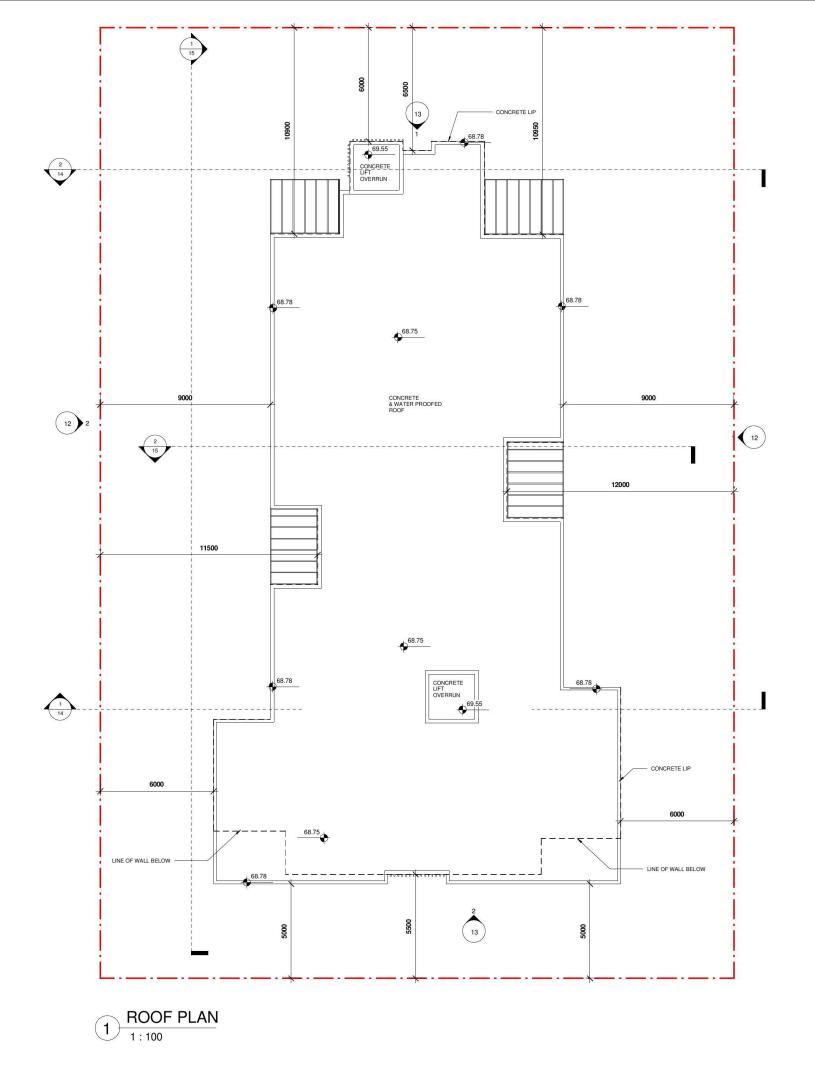
PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

047-15/16

DRAWING TITLE:
GROUND FLOOR

	DRAWN:	MT	
	CHECKED	: SIMON OCHUDZA	WA MAIA #6865
	DATE:	23/02/18	DRAWING No's:
ı	SCALE:	AS SHOWN	
ı	PROJECT	No:	



REVISION:

No	AMENDMENTS	Ву	Date
Α	DA ISSUE	MT	23.02.1

0m	2m	4m	6m	8m	10m
ļ	Z.III	7111	OIII		=

VISUAL SCALE 1:100 @ A1

0m	4m	8m	12m	16m	20m

VISUAL SCALE 1:200 @ A3



ARCHITECTS INTERIORS LANDSCAPE PLANNING

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PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

DRAWING TITLE:

047-15/16

	DRAWN:	MT	
ı	CHECKED	: SIMON OCHUDZA	AWA MAIA #6865
I	DATE:	23/02/18	DRAWING No's:
Ī	SCALE:	AS SHOWN	
ī	PROJECT	No:	

11/31



REVISION :

No	AMENDMENTS	3		Ву	Date
Α	DA ISSUE			МТ	23.02.18
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	2m	4m	6m	8m	1

VISUAL SCALE 1:100 @ A1

0m	4m	8m	12m	16m	20m

VISUAL SCALE 1:200 @ A3



ARCHITECTS INTERIORS LANDSCAPE PLANNING

OFFICE:

Suite 4.04, Level 4, No: 5 Celebration Drive BELLA VISTA NSW 2153 PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04 email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROJECT: PROPOSED FLAT DEVELOPMENT

PROPOSED PLAT DEVELOPMEN

CLIENT: SIMON ELIASS

■ DRAWING TITLE: EAST & WEST ELEVATIONS

I	PROJECT	No: 15/16	19/34
ı	SCALE:	AS SHOWN	
	DATE:	23/02/18	DRAWING No's:
	CHECKED	: SIMON OCHUDZA	WA MAIA #6865
ı	DRAWN:	MT	





REVISION

No	AMENDMENTS	6		Ву	Date
Α	DA ISSUE			МТ	23.02
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VISUAL SCALE 1:100 @ A1

0m	4m	8m	12m	16m	20m

VISUAL SCALE 1:200 @ A3



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PROJECT: PROPOSED FLAT DEVELOPMENT

PROPOSED FLAT DEVELOPMEN

CLIENT: SIMON ELIASS

047-15/16

DRAWING TITLE: NORTH & SOUTH ELEVATIONS

DRAWN: MT

CHECKED: SIMON OCHUDZAWA MAIA #6865

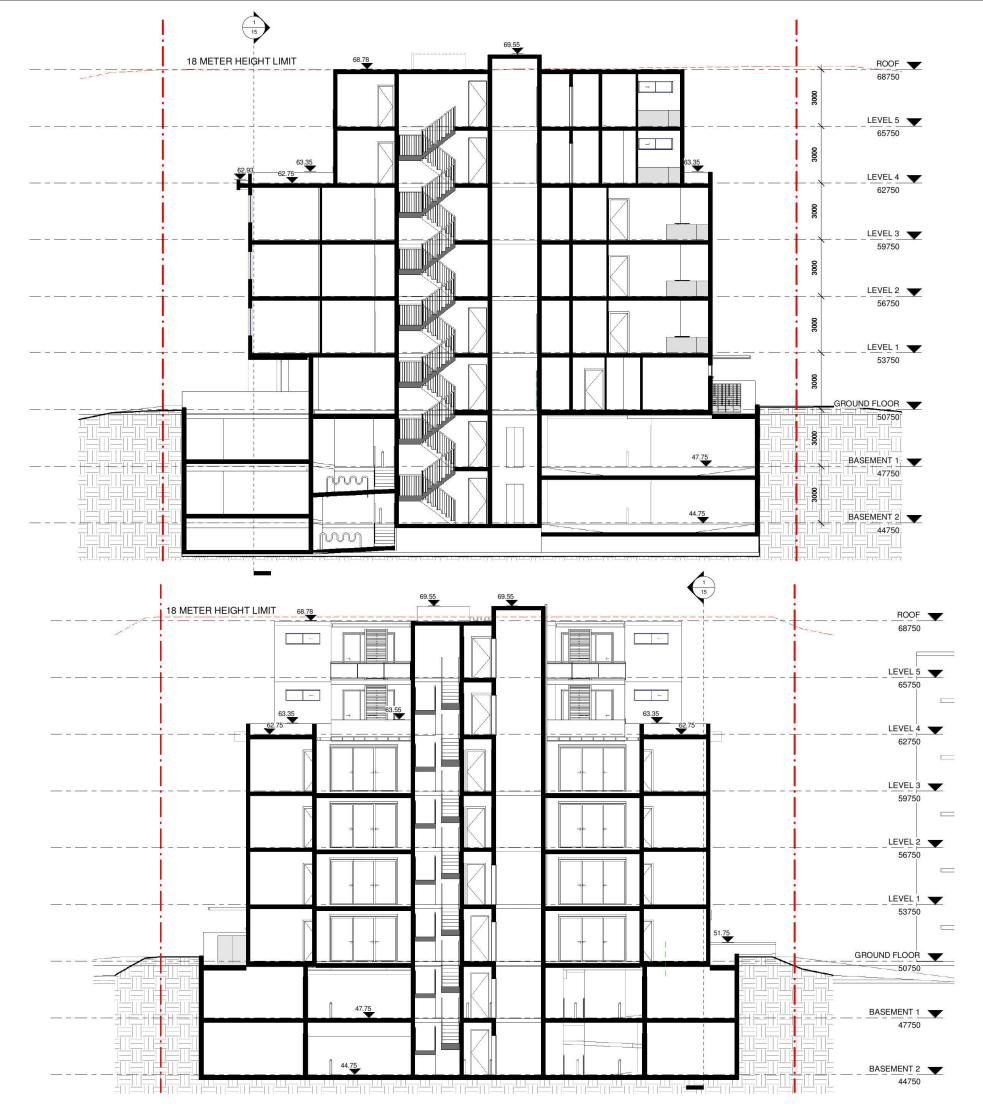
DATE: 23/02/18

DRAWING No's:

SCALE: AS SHOWN

PROJECT No:

13/31



REVISION:

No	AMENDMENTS	Ву	Date
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VISUAL SCALE 1:100 @ A1

VISUAL SCALE 1:200 @ A3



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PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

DRAWING TITLE:
SECTIONS 01

DRAWN: MT CHECKED : SIMON OCHUDZAWA MAIA #6865

DATE: 23/02/18 SCALE: AS SHOWN

PROJECT No:

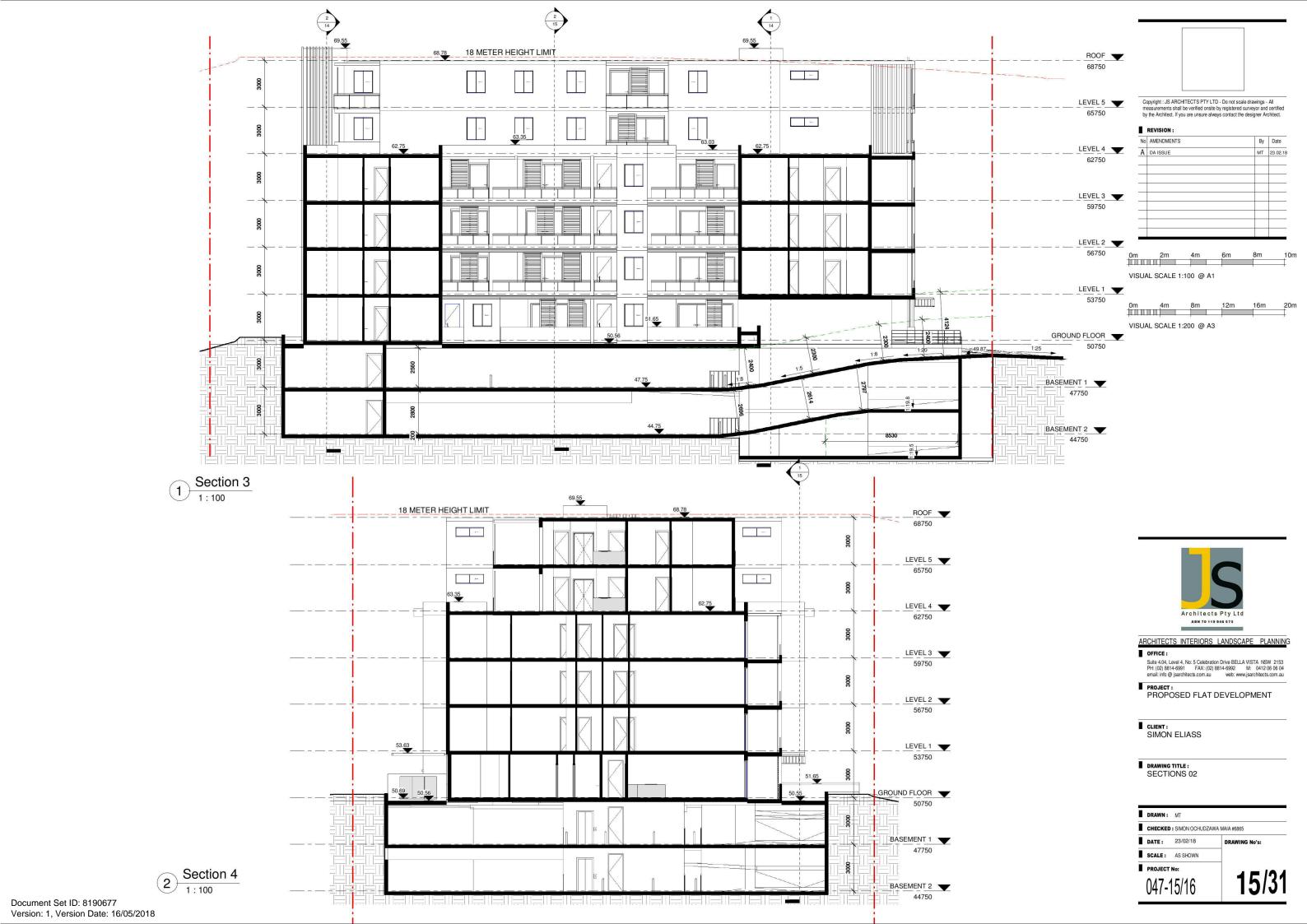
047-15/16

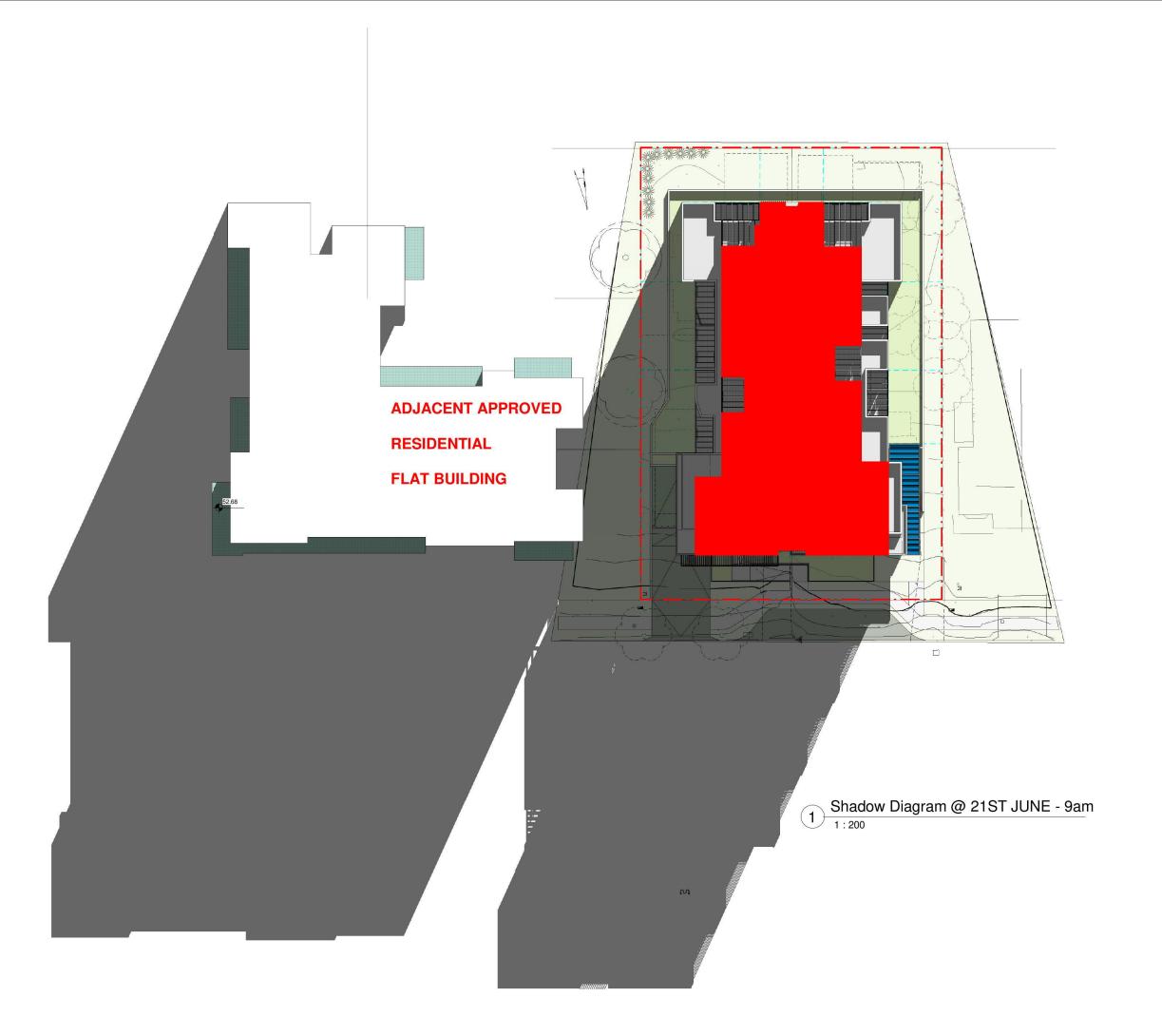
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Section 2

Section 1

1:100







No	AMENDMENTS	Ву	Date
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VISUAL SCALE 1:200 @ A1

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VISUAL SCALE 1:400 @ A3



ARCHITECTS INTERIORS LANDSCAPE PLANNING

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PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04
email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROJECT:
PROPOSED FLAT DEVELOPMENT

CLIENT: SIMON ELIASS

DRAWING TITLE:
SHADOW DIAGRAMS - 21ST
JUNE

DRAWN: MT

CHECKED: SIMON OCHUDZAWA MAIA #6865 DATE: 23/02/18

SCALE: AS SHOWN

PROJECT No:

047-15/16



Shadow Diagram @ 21ST JUNE - 12pm

53



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No	AMENDMENTS	Ву	Date
Α	DA ISSUE	МТ	23.02.18



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PH: (02) 8814-6991 FAX: (02) 8814-6992 M: 0412 06 06 04
email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROPOSED FLAT DEVELOPMENT

CLIENT:
SIMON ELIASS

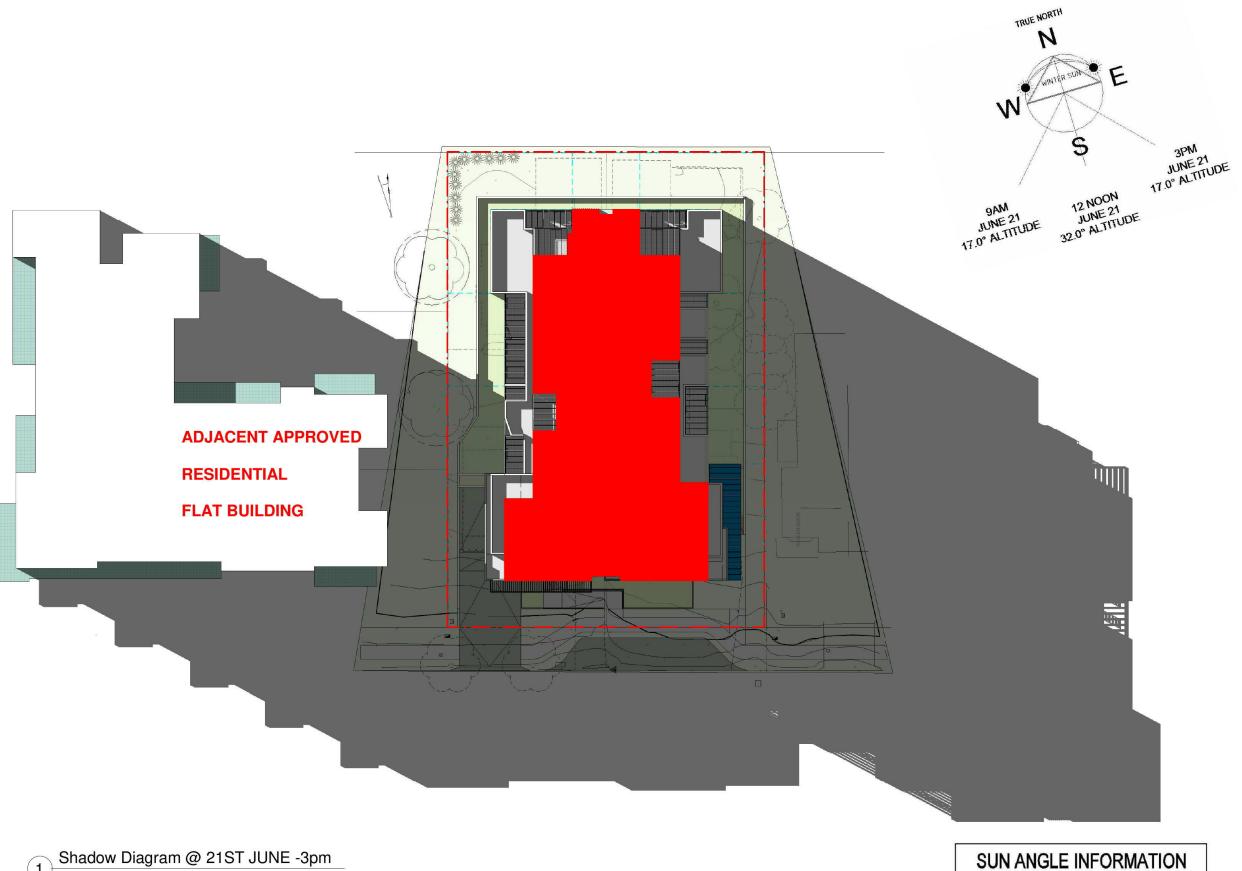
DRAWING TITLE:
SHADOW DIAGRAMS - 21ST
JUNE

DRAWN: MT CHECKED: SIMON OCHUDZAWA MAIA #6865

DATE: 23/02/18

SCALE: AS SHOWN

PROJECT No: 047-15/16



SUN ANGLE INFORMATION

Winter Solstice On June 21st

TIME ALTITUDE AZIMUTH

9 AM 17 ° 42°E OF N

12 NOON 32 ° 0° NORTH

17 °

3 PM

42°W OF N



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REVISION

No	AMENDMENTS	Ву	Dat
Α	DA ISSUE	MT	23.0
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VISUAL SCALE 1:100 @ A1

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VISUAL SCALE 1:200 @ A3



ARCHITECTS INTERIORS LANDSCAPE PLANNING

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email: info @ jsarchitects.com.au web: www.jsarchitects.com.au

PROJECT: PROPOSED FLAT DEVELOPMENT

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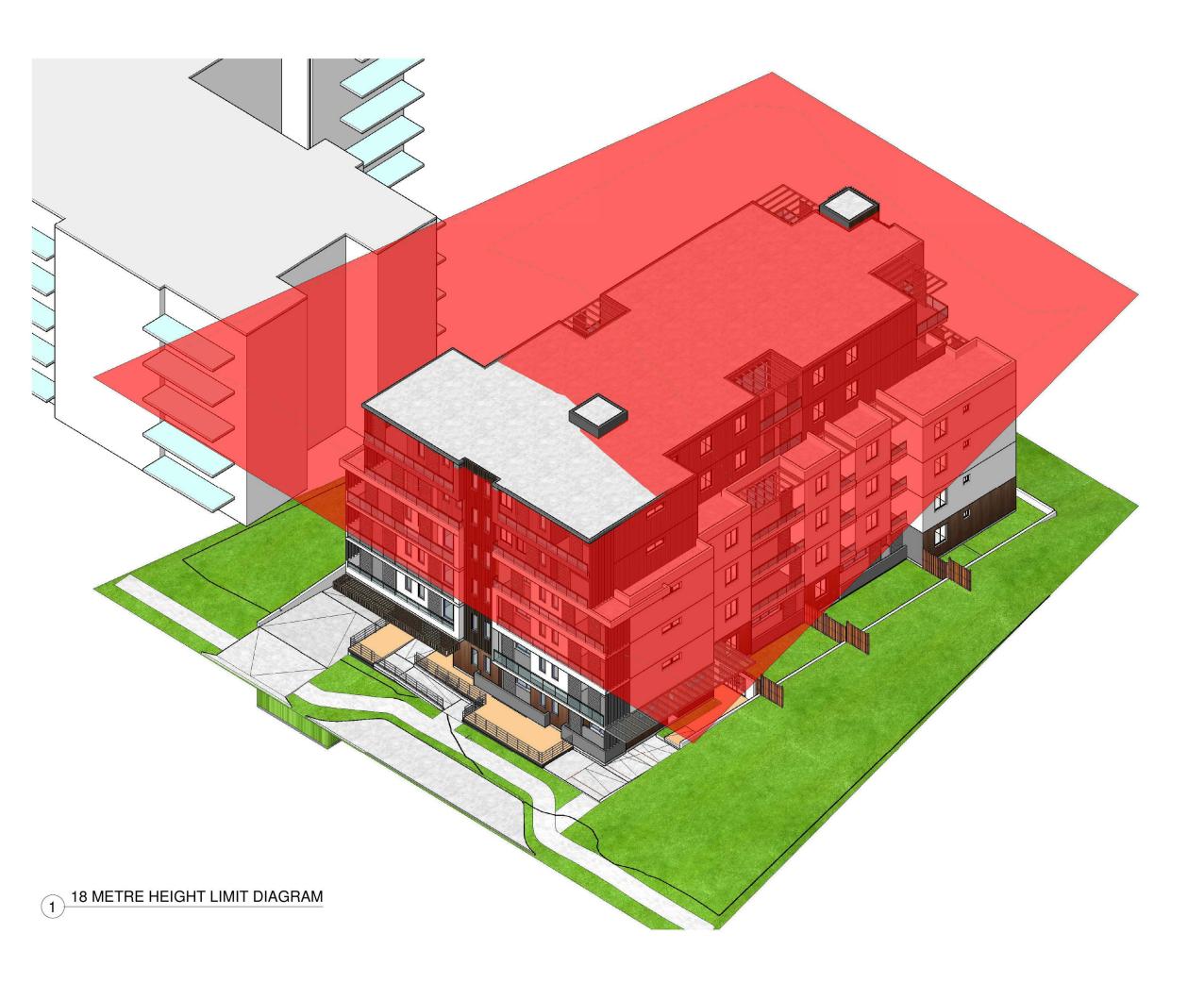
CLIENT:
SIMON ELIASS

DRAWING TITLE:
SHADOW DIAGRAMS - 21ST
JUNE

D	RAWN:	MT	
С	HECKED	: SIMON OCHUDZA	WA MAIA #6865
D	ATE:	23/02/18	DRAWING No's:

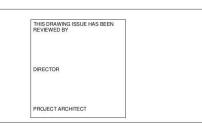
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047-15/16 **18/31**









CLIENT SIMON ELIASS

DRAWING TITLE

18 METRE HEIGHT LIMIT DIAGRAM

025-17/18	25 /24	Α
PROJECT NUMBER	DRAWING No.	ISSL
23/02/18	AS SHOWN	Auth
DATE	SCALE @ A1	DRAW

PROJECT
PROPOSED FLAT
DEVELOPMENT
41-43 Barber St, Penrith





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No	AMENDMENTS	Ву	Date
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VISUAL SCALE 1:100 @ A1

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VISUAL SCALE 1:200 @ A3



PROJECT:
PROPOSED FLAT DEVELOPMENT

CLIENT: SIMON ELIASS

DRAWING TITLE:
LANDSCAPE DIAGRAM

ı	DRAWN:	MT	
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ı	DATE:	23/02/18	DRAWING N
=	AVA-1117 EVENTS	000000000000000000000000000000000000000	

SCALE: AS SHOWN

PROJECT No: 047-15/16

WARNING:

EXISTING SERVICES HAVE BEEN
PLOTTED FROM RECORDS SUPPLIED
BY THE PUBLIC UTILITY AUTHORITIES.
LOCATIONS HAVE INTERPRETED FROM
THESE RECORDS ARE APPROXIMATE
ONLY. EXTREME CAUTION SHOULD BE
TAKEN WHEN EXCAVATING

STORMWATER DESIGN AND CONSTRUCTION TO COMPLY WITH BCA 3.1.2

ALL DEMOLITION OF ANY STRUCTURES SHOULD SATISFY AS 2601-1991

ALL DRAINAGE AND PLUMBING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3:2 PLUMBING AND DRAINAGE CODE

THE CHARGED PORTION OF DRAINAGE SYSTEM, RISING OUT OF THE GROUND, MUST BE SEALED. SEALED PORTION OF DOWN PIPE MUST BE PAINTED.

ANY GRATED PIT IN KID'S
PLAY AREAS SHALL BE
PROVIDED WITH CHILD
PROOF "" TYPE SPRING LOCK

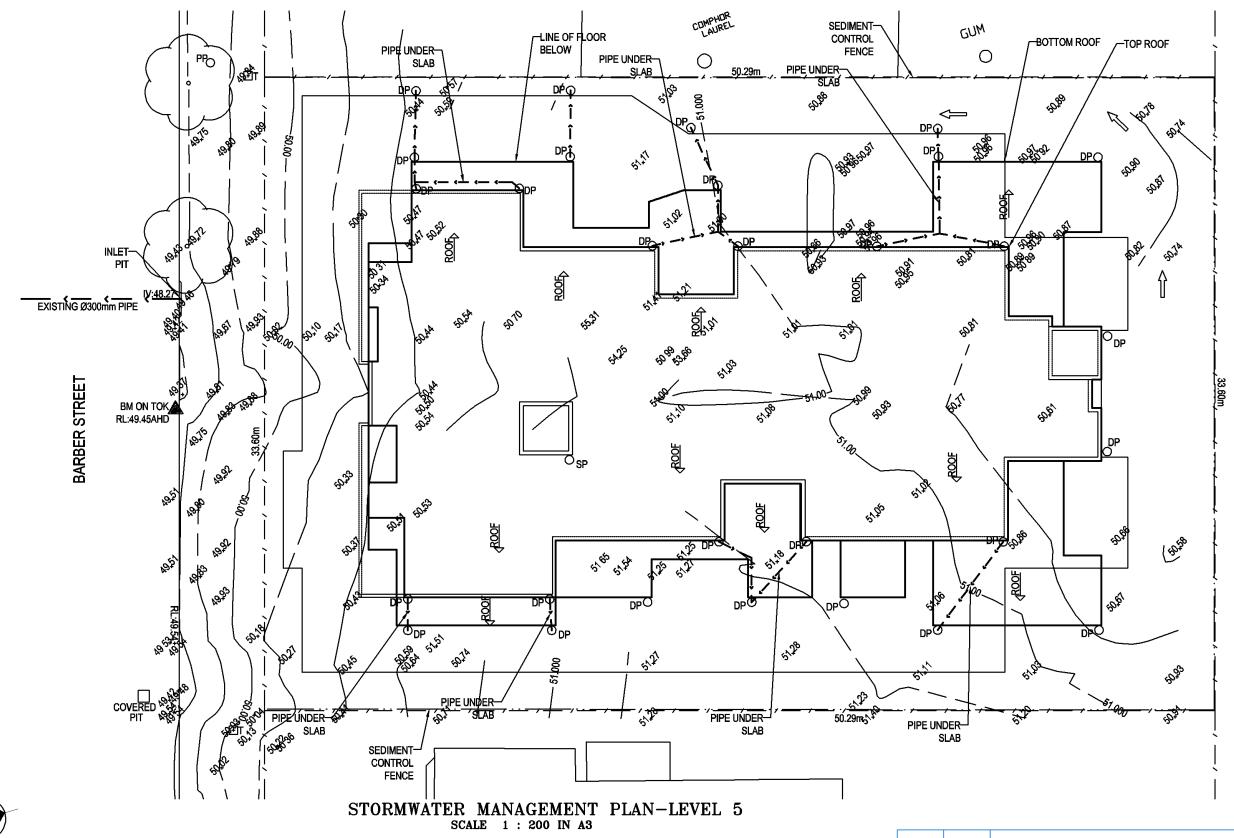
ROOF GUTTER AND DRAINAGE DESIGN TO COMPLY WITH BCA AND AUSTRALIAN STANDARDS AS/NZS 3500:2003 PLUMBING AND DRAINAGE STANDARDS

EXISTING FOOTPATH AROUND NEW DRIVEWAY TO BE RECONSTRUCTED AS SATISFYING COUNCIL

DOWN PIPE TO BE 90mm OR 100*75mm MINIMUM SIZE AND FOR 45 Sqm MAXIMUM







NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
B.E., M.I.E. AUST. CPENG NPER-3

UNIT 5, 1-3 WHYALLA PLACE, PRESTONS NSW 2170 PH: (02) 9607 2864 OR (02) 8798 5617 FAX: (02) 9731 2081 MOB: 0419 041 401 APPROVED:

CLIENT: SIMON ELIAS

CLIENT No: 5788

PROJECT: 41-43 BARBER AVENUE

PENRITH

TITLE: STORMWATER AND SEDIMENT MANAGEMENT PLAN

DATE:

28/03/15 | ISSUED FOR DA

В

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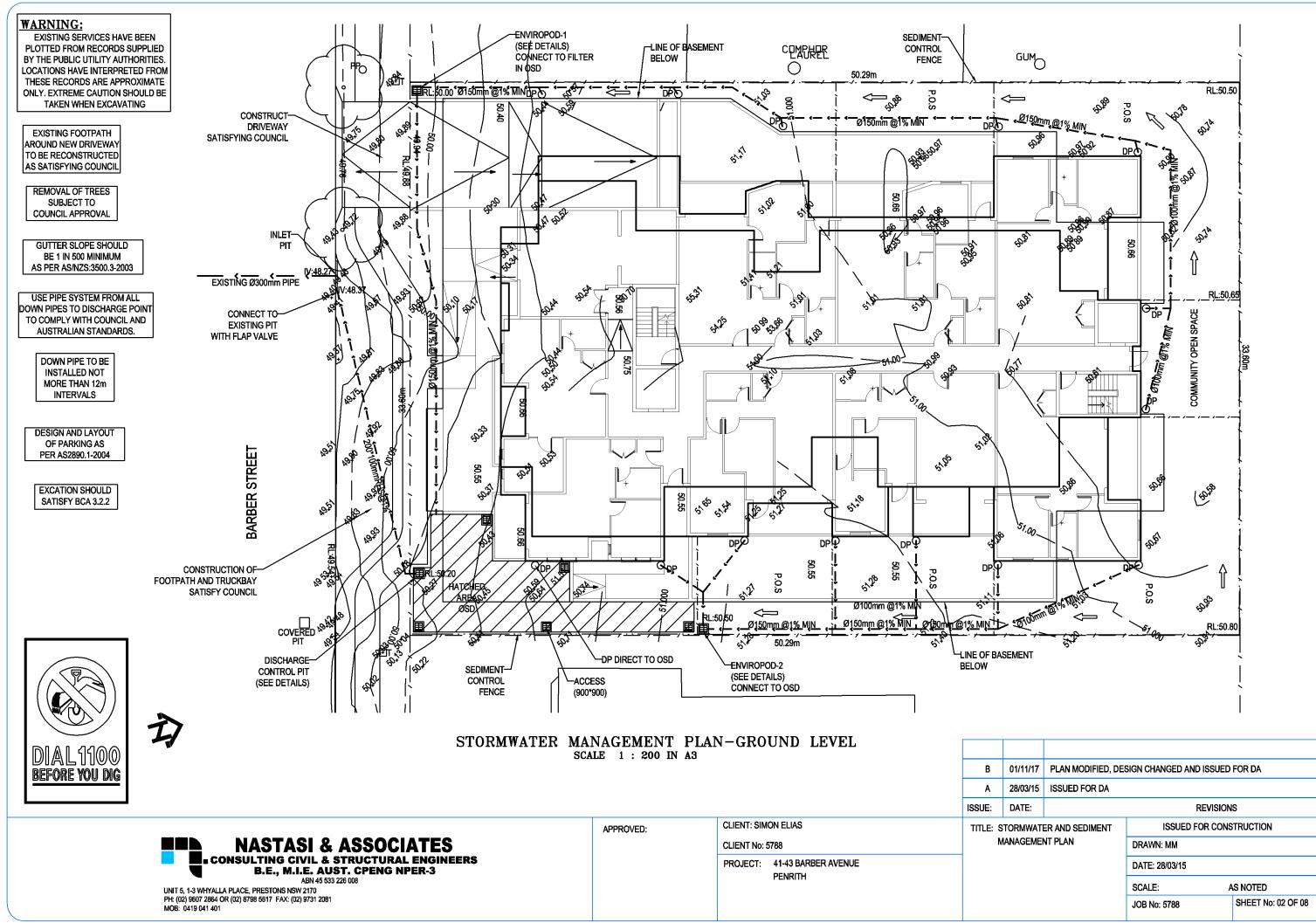
ISSUE:

REVISIONS
ISSUED FOR CONSTRUCTION
DRAWN: MM
DATE: 28/03/15

01/11/17 PLAN MODIFIED, DESIGN CHANGED AND ISSUED FOR DA

 SCALE:
 AS NOTED

 JOB No: 5788
 SHEET No: 01 OF 08



STORMWATER DRAINAGE NOTES

ALL WORK IN ACCORDANCE WITH THE LOCAL GOVERNMENT ACT, COUNCIL'S STANDARD SPECIFICATION & CODES & TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.

THIS PLAN TO BE READ IN CONJUNCTION WITH PLANS PREPARED BY THE ARCITECTS AND STRCTURAL ENGINEER.

ALL LINES TO BE Ø100mm AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE ON PLAN.

INSTALL TEMPORARY SEDIMENT BARRIERS AROUND ALL INLET PITS TO DETAIL UNTIL SUROUNDING AREAS ARE PAVED OR TURFED.

CONTRACTOR IS TO VERIFY THE LOCATION & LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF EXCAVATION FOR DRAINAGE.

ALL PITS TO BE BENCHED TO HALF PIPE SECTION AND TO HAVE GALVANISED STREEL GRATES AND SURROUNDS.

PIPE GRADES SHOWN ARE INDICATIVE MINIMUM AND TO BE LAID TO INVERT LEVELS AS SHOWN REDUNTANT VEHICLE CROSSING ARE TO BE REMOVED AND REPLACED WITH INTERGRAL CONCRETE KERB AND GUTTER TO THE SATISFACTION OF COUNCIL.

PLANTER BOXES ARE TO BE LINED WITH 'BIDEM A24' PERMANENT GEOTEXTILE PABRIC.

CONNECT PLANTERS VIA FLOOR WASTES, TO STORMWATER DRAINAGE SYSTEM

BALCONIES ARE TO BE CONNECTED VIA FLOOR WASTES TO PROPOSED DRAINAGE SYSTEM

REINFORCEMENTS DETAILS ARE ACCORDING TO STRUCTURAL PLAN

REMOVAL OF ANY TREES MUST COMPLY WITH COUNCIL APPROVAL

CONSTRUCTION OF FOOTPATH AND/OR DRIVEWAY TO SATISFY COUNCIL STANDARDS

ABBREVIATED ROOF WATER RUNOFF CALCULATIONS

ARI = 1:100 yr.

I = 206.1mm/hr.

 $Tc = 6 \, mm$.

C = 1Q = CIA/3600 l/s

RUNOFF RATE FOR EACH CATCHMENT AREAS AREA MARKED ON THE PLAN.

SYMBOLS & NOTATIONS

-	STORMWATER DRAINAGE LINE
	GRATED INLET PIT
G.	DESIGNED GRATE LEVEL
	INVERT LEVEL OF PIPE
DP	DOWN PIPE Ø90mm OR 100x75mm
RL	REDUCED LEVEL (DESIGNED)
	SILT BARRIER FENCE
\leftarrow	SURFACE RUNOFF DIRECTION

AREA CALCULATIONS

SITE AREA	:1686.20 Sqm
EXISTING SITE	
BUILDING	:285.50 Sqm
METAL SHED	:84.42 Sqm
W'BOARD SHED	:44.50 Sqm
GARAGE	.54.70 Sqm
METAL GARAGE	:84.70 Sqm
DRIVEWAYS	:213.20 Sqm
TOTAL IMPERVIOUS AREA	:767.02 Sqm
PERCENTAGE	:45.49%

PROPOSED SITE
BUILDING :1057.33 Sqm
DRIVEWAY :50.40 Sqm
TOTAL IMPERVIOUS AREA :1107.73 Sqm
PERCENTAGE :65.70%

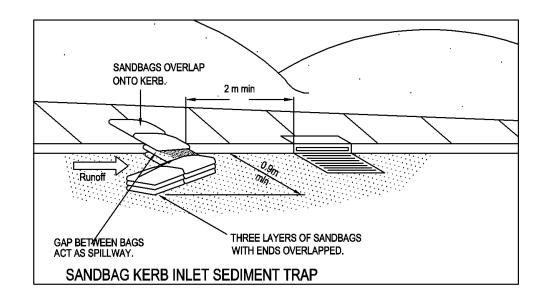
INCREASE OF IMP. AREA :340.71 Sqm

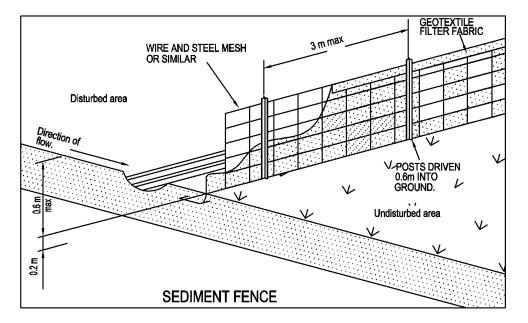
AS PER COUNCIL STORMWATER DCP FOLLOWING PLAN IS REQUIRED

STORMWATER MANAGEMENT PLAN

OSD

PUMPOUT SYSTEM FOR BASEMENT INSTALLATION OF NEW PIPE SYSTEM







FULL SEARCH OF UNDERGROUND SERVICES SHOULD BE UNDERTAKEN BEFORE COMMENCE OF ANY WORKS

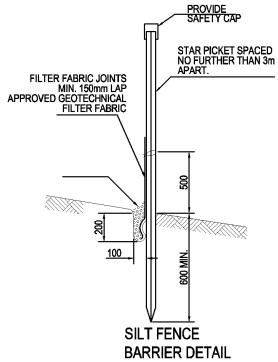
EROSION & SEDIMENT CONTROL

- 1. Sediment control devices are to be in place prior to any demolition or contraction.
- 2. Construct a silt barrier fence where shown on plan and to details above.
- Sediment control devices are to be maintained, in good working order, until completion of all site works or to the satis faction of Council's supervising officer.
- 4. Provide HAY BALE BARRIERS around all existing surface inlet pits during cons.
- 5. Install stabilised site access as per detail over.

GEOTEXTILE FILTER FABRIC RUNOFF WATER WITH SEDIMENT BURIED FABRIC SEDIMENT BARRIER AROUND PIT

CONSTRUCTION NOTES

- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE
- 2. SUPPORT GEOTEXTILE WITH MESH TIED TO POSTS AT 1000mm CENTRES.
- 3. DO NOT COVER INLET WITH GEOTEXTILE.
- 4. INSTALL & SUPPORY GEOTEXTILE AS PER SITE FENCE BARRIER DETAIL.



PROVIDE SILT FENCE AT BOUNDARY
OF SITE AS SHOWN ON PLAN

IMPORTANT

All existing services shown on this plan are approximate location only. The contractor is to verify the exact location and level of all existing services prior to commencement of excavation work for pipe laying The contractor is to meet the full cost to relocate or adjust Telstra, Energy Australia, Sydney water or Natural gasservices as required.

	ISSUE:	DATE:		REVISIONS
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	В	01/11/17	PLAN MODIFIED, DES	SIGN CHANGED AND ISSUED FOR DA

JOB No: 5788

CONSULT

NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
B.E., M.I.E. AUST. CPENG NPER-3

ABN 45 533 226 008

UNIT 5, 1-3 WHYALLA PLACE, PRESTONS NSW 2170 PH: (02) 9607 2864 OR (02) 8798 5617 FAX: (02) 9731 2081 APPROVED:

CLIENT: SIMON ELIAS

CLIENT No: 5788

PROJECT: 41-43 BARBER AVENUE
PENRITH

TITLE: STORMWATER AND SEDIMENT MANAGEMENT PLAN

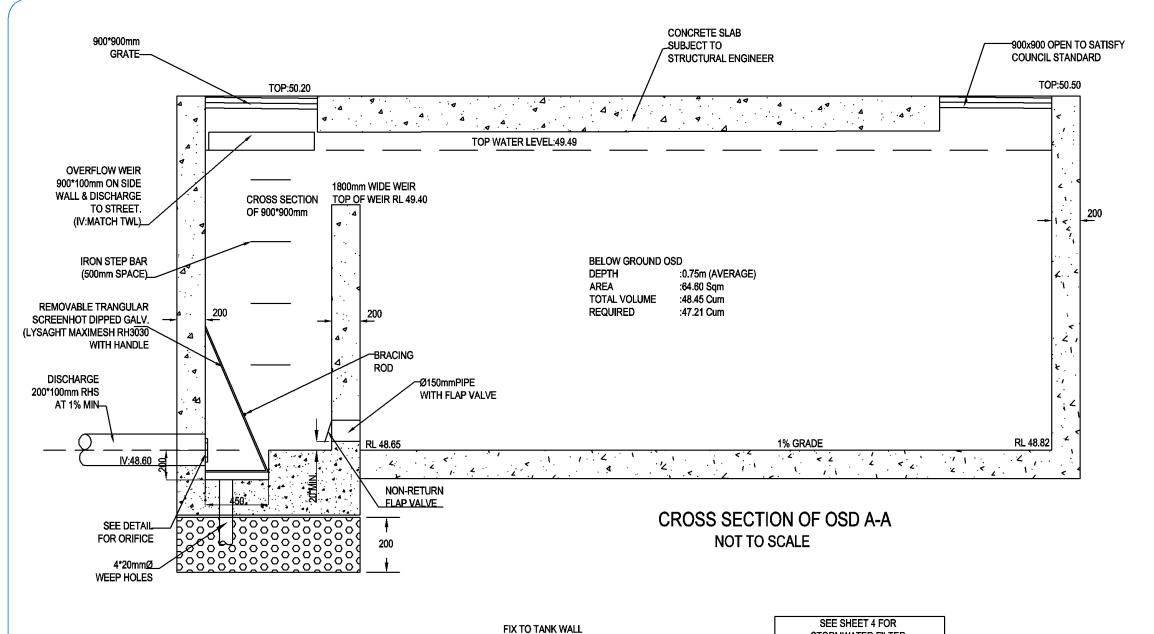
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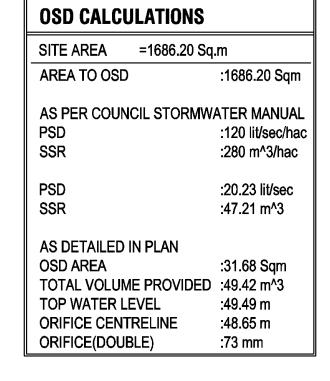
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SHEET No: 03 OF 08





THIS IS AN ON SITE STORMWATER **DETENTION SYSTEM** REQUIRED BY COUNCIL

IT IS AN OFFENSE TO REDUCE THE VOLUME OF THE TANK/BASIN OR TO INTERFERE WITH THE ORIFICE PLATE THAT CONTROL THE FLOW

THE BASIN OF THE OUTLET CONTROL PIT AND THE DEBRIS SCREEN MUST BE CLEANED OF DEBRIS AND SEDIMENT ON A REGULAR BASIC BY THE OWNER

THIS PLATE MUST NOT BE REMOVED

USING 'DYNABOLTS AND EPOXY 300 CIRCULAR HOLE WITH 3mm THICK GALV. SHARP EDGES MACHINED

TO 0.5mm ACCURACY

STORMWATER FILTER AND INTERNL SECTION **DETAILS AND FOR MORE DETAILS** PLEASE VISIT www.stormwater360.com.au OR CALL 1300 354 722 FOR INSTALLATION OF STORMWATER FILTER AND MAINTENANCE

APPROVED:

ORIFICE PLATE (NOT TO SCALE)

01/11/17 PLAN MODIFIED, DESIGN CHANGED AND ISSUED FOR DA В Α 28/03/15 | ISSUED FOR DA ISSUE: DATE: REVISIONS

JOB No: 5788



UNIT 5, 1-3 WHYALLA PLACE, PRESTONS NSW 2170 PH: (02) 9607 2864 OR (02) 8798 5617 FAX: (02) 9731 2081

73mmØ

CL:48.65

STAINLESS

STEEL PLATE

CLIENT: SIMON ELIAS CLIENT No: 5788 PROJECT: 41-43 BARBER AVENUE PENRITH

TITLE: STORMWATER AND SEDIMENT MANAGEMENT PLAN

ISSUED FOR CONSTRUCTION DRAWN: MM DATE: 28/03/15 SCALE: AS NOTED

SHEET No: 04 OF 08

ORIFICE PLEASE VISIT (SEE DETAILS) www.stormwater360.com.au CALL 1300 354 722 ACCESS COVER FOR INSTALLATION OF STORMWATER _(900 Sq) FILTER AND MAINTENANCE ACCESS COVER (900 Sq) Ø150mm WITH NON RETURN VALVE -TO DRAIN OSD O.S.D. STORAGE OUTLET 160mm DEEP VOID FOR (SEE DETAILS AND PLAN) STORMWATER FITOUT INLET INLET ACCESS COVER _(900 Sq) ACCESS COVER ACCESS COVER ACCESS COVER (900 Sq) OVER CARTIDGE 600 x 600 _(900 Sq) _(900 Sq) ÀS PER MUSIC GRATE & FRAME RL:50.00 **PLAN LAYOUT** (NOT TO SCALE) INLET PIPE \ ⇒ RL:49.70

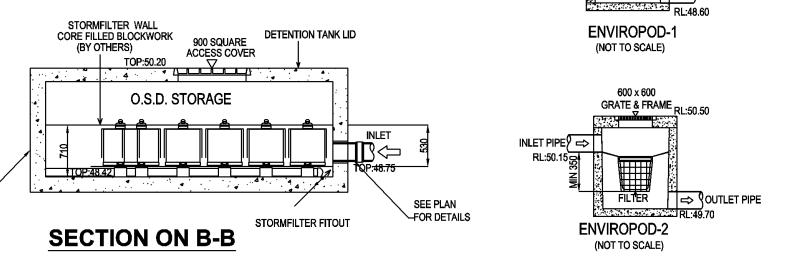
STORMFILTER DESIGN TABLE

- THE SIZE 3.2 x 1.8m STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED AND BY REGION SPECIFIC INTERNAL FLOW CONTROLS.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CIVIL ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- ALL PARTS PROVIDED AND INTERNAL ASSEMBLY BY STORMWATER360 UNLESS OTHERWISE NOTED.

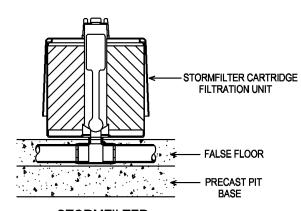
CARTRIDGE HEIGHT	69	90	46	30	31	10
SYSTEM HYDRAULIC DROP (H - REQ'D. MIN.)	930		700		550	
TREATMENT BY MEDIA SURFACE AREA L/S/m2	1.4	0.7	1.4	0.7	1.4	0.7
CARTRIDGE FLOW RATE (L/s)	1.42	0.71	0.95	0.47	0.63	0.32

GENERAL NOTES

- 1. INLET AND OUTLET PIPING SHALL BE SPECIFIED BY SITE CIVIL ENGINEER (SEE PLANS) AND PROVIDED BY CONTRACTOR. STORMFILTER IS PROVIDED WITH OPENINGS AT INLET AND OUTLET LOCATIONS.
- 2. IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CIVIL ENGINEER, EXCEEDS THE PEAK HYDRAULIC CAPACITY OF THE PRODUCT, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED. PLEASE CONTACT STORMWATER360 FOR OPTIONS.
- 3. THE FILTER CARTRIDGE(S) ARE SIPHON-ACTUATED AND SELF-CLEANING. THE STANDARD DETAIL DRAWING SHOWS THE MAXIMUM NUMBER OF CARTRIDGES. THE ACTUAL NUMBER SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER ON SITE PLANS OR IN DATA TABLE BELOW. CONCRETE STRUCTURE TO BE PROVIDED BY OTHERS.
- 4. SEE STORMFILTER DESIGN TABLE FOR REQUIRED HYDRAULIC DROP. FOR SHALLOW, LOW DROP OR SPECIAL DESIGN CONSTRAINTS, CONTACT STORMWATER360 FOR DESIGN OPTIONS.
- 5. ALL WATER QUALITY PRODUCTS REQUIRE PERIODIC MAINTENANCE AS OUTLINED IN THE 0&M GUIDELINES, PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS.
- 6. STRUCTURE AND ACCESS COVERS DESIGNED BY OTHERS, ACCESS COVERS TO BE A MINIMUM 900X900 ABOVE CARTRIDGES
- 7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES AND VARY REGIONALLY.
- 8. ANY BACKFILL DEPTH, SUB-BASE, AND OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY SITE CIVIL ENGINEER.
- 9. CARTRIDGE HEIGHT AND ASSOCIATED DESIGN PARAMETERS PER STORMFILTER DESIGN TABLE.
 10. STORMFILTER BY STORMWATER360: SYDNEY (AU) PHONE: 1300 354 722 www.stormwater360.com.au



APPROVED:



STORMFILTER CARTRIDGE DETAIL (NOT TO SCALE)

В	01/11/17	PLAN MODIFIED, DESIGN CHANGED AND ISSUED FOR DA		
Α	28/03/15	ISSUED FOR DA		
ISSUE:	DATE:	REVISIONS		
TITLE: STORMWATER AND SEDIMENT		ER AND SEDIMENT	ISSUED FOR CONSTRUCTION	
N	IANAGEMEI	NT PLAN DRAWN: MM		



UNIT 5, 1-3 WHYALLA PLACE, PRESTONS NSW 2170 PH: (02) 9607 2864 OR (02) 8798 5617 FAX: (02) 9731 2081 MOB: 0419 041 401

CLIENT: SIMON ELIAS CLIENT No: 5788 PROJECT: 41-43 BARBER AVENUE PENRITH

| ⇒ COUTLET PIPE TO FILTER

DATE: 28/03/15

SCALE: AS NOTED SHEET No: 05 OF 08 JOB No: 5788

SEE DETAILS

IN SHEET 2 AND 3

WARNING:

PUMP OUT SYSTEM
FAILURE IN BASEMENT
WHEN LIGHT IS FLASHING
AND SIREN SOUNDING

BASEMENT PUMPOUT FAILURE WARNING SIGN

NOTE

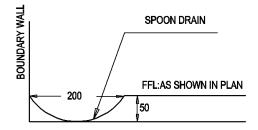
1- SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT

COLOUR:

WARINING : RED BORDER AND LETTERING : BLACK

> SUBSOIL DRAINAGE SYSTEM AS PER SECTION 6, AS3500.3-1990

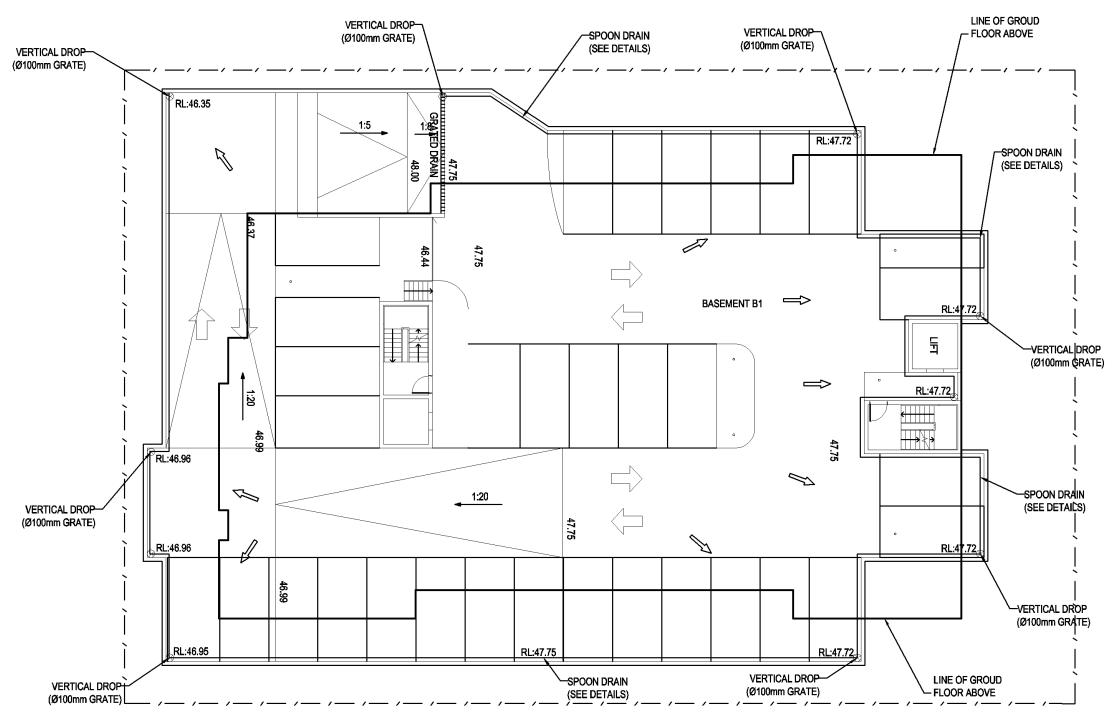
DESIGN AND CONSTRUCTION OF SUBSOIL DRAINAGE AS PER AS3500.3-1990



SECTION OF SPOON DRAIN

SCALE N.T.S.





STORMWATER MANAGEMENT PLAN-UPPER BASEMENT

SCALE 1: 200 IN A1

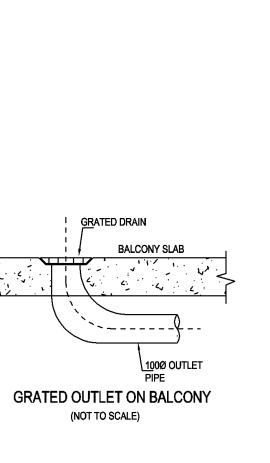
SUBSOIL DRAINAGE DESIGN AND LAYOUT SYSTEM AS PER OF PARKING AS SECTION 6, PER AS2890.1-2004 AS3500.3-1990 DESIGN AND CONSTRUCTION FULL SEARCH OF UNDERGROUND OF SUBSOIL DRAINAGE SERVICES SHOULD BE UNDERTAKEN AS PER AS3500.3-1990 Α 28/03/15 | ISSUED FOR DA BEFORE COMMENCE OF ANY WORKS ISSUE: DATE: REVISIONS CLIENT: SIMON ELIAS ISSUED FOR CONSTRUCTION TITLE: STORMWATER AND SEDIMENT APPROVED: MANAGEMENT PLAN CLIENT No: 5788 DRAWN: MM PROJECT: 41-43 BARBER AVENUE DATE: 28/03/15 PENRITH AS NOTED SCALE: SHEET No: 06 OF 08 JOB No: 5788

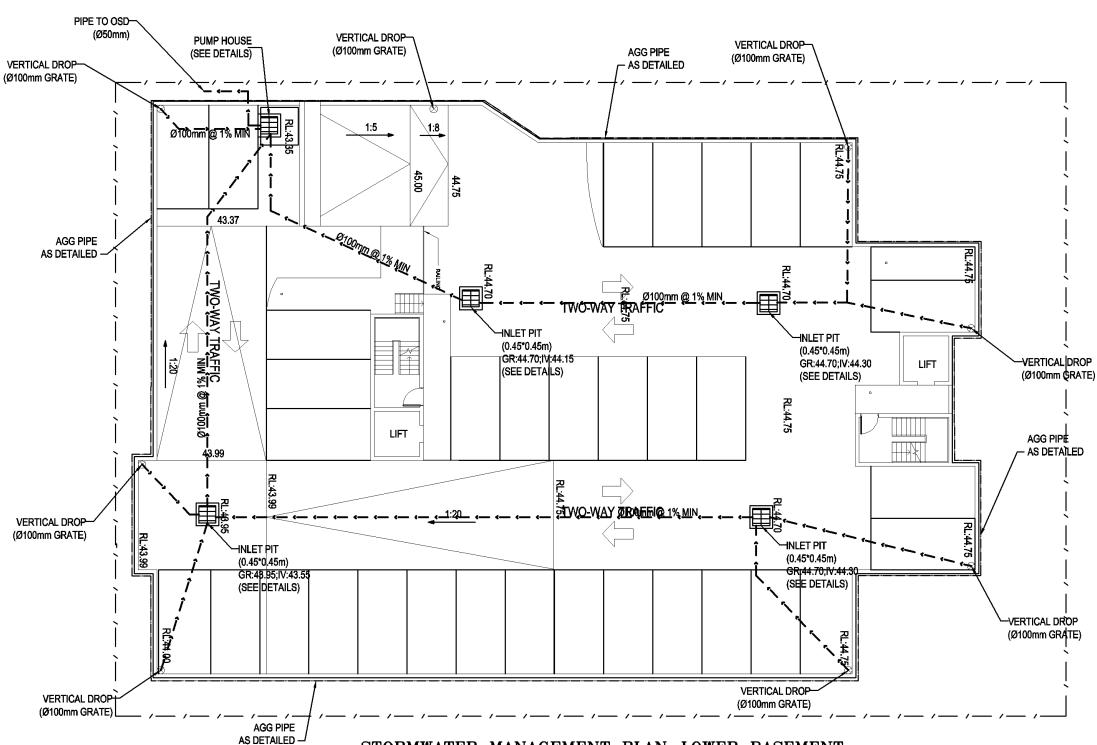
NASTASI & ASSOCIATES
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FULL SEARCH OF UNDERGROUND SERVICES SHOULD BE UNDERTAKEN BEFORE COMMENCE OF ANY WORKS





STORMWATER MANAGEMENT PLAN-LOWER BASEMENT SCALE 1: 200 IN A1

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CLIENT No: 5788

PROJECT: 41-43 BARBER AVENUE
PENRITH

APPROVED:

A 28/03/15 ISSUED FOR DA

ISSUE: DATE: REVISIONS

TITLE: STORMWATER AND SEDIMENT MANAGEMENT PLAN

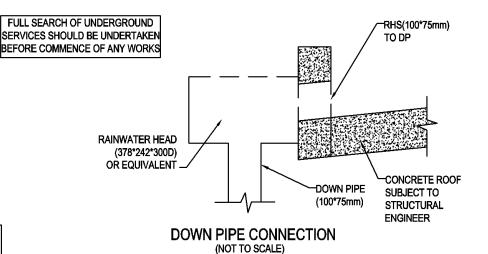
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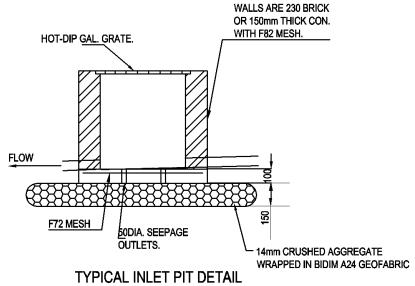
DATE: 28/03/15

SCALE: AS NOTED

JOB No: 5788 SHEET No: 07 OF 08







(NOT TO SCALE)

PUMP SPECIFICATIONS

STANDARD PUMP-OUT NOTES

THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -

THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.

A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING & ACTIVATE THE ALARM.

AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

BASEMENT PUMPOUT FAILURE WARNING SIGN

WARNING:

PUMP OUT SYSTEM

FAILURE IN BASEMENT

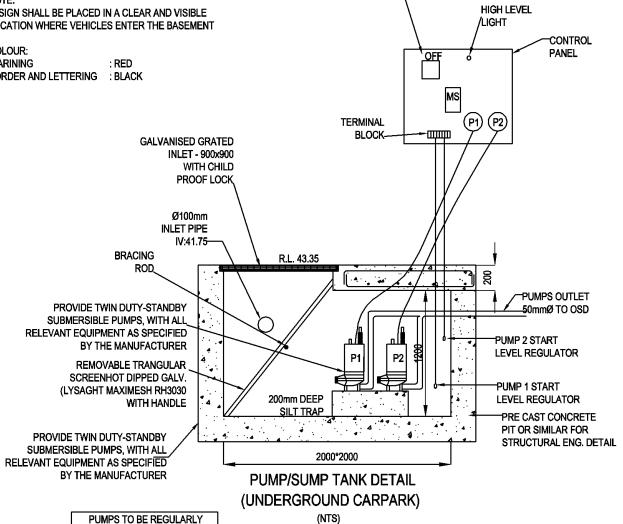
WHEN LIGHT IS FLASHING

AND SIREN SOUNDING

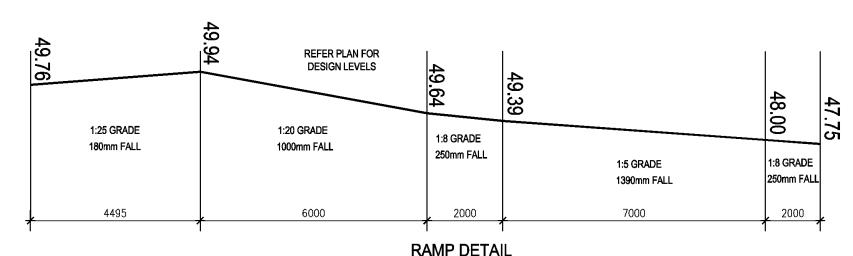
NOTE: 1- SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT

COLOUR:

WARINING BORDER AND LETTERING



ROTARY CONTROL SWITCHES-



PUMP WELL DETAILS

SUMP SIZE AND PUMP SIZE BASE ON 100 YEAR 90 MIN STORM INTENSITY IS 52.60 mm/hr DRIVEWAY:50.40 Sqm VOLUME=(50.40*52.60/3600)*90*60=3.98 m^3 STORAGE PROVIDED 2000x2000x1000 = 4.00 m³ PUMP OUT RATE BASED ON 5 YR 60 MIN. STORM = 38.40mm/hr PUMP RATE = 52.60*38.40/3600 = 0.56 lit/Sec (MIN) DUAL PUMPS TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO ACT ALTERNATIVELY PUMPING 0.6 lit/sec AT 10 m HEAD (MIN)

NOTE: IN ORDER TO MAXIMISE VISIBILITY IN THE BASEMENT CAR PARKS, ALL BASEMENT CEILINGS ARE TO BE PAINTED WHITE

NOT TO SCALE

ALL THE BASEMENT WALLS TO BE WATERPROOFED AND PROVIDE AGG LINES AND SPOON DRAIN TO REMOVE SEEPAGE WATER.

PROVIDE TWIN DUTY-STANDBY SUBMERSIBLE PUMPS, WITH ALL RELEVANT EQUIPMENT AS SPECIFIED BY MANUFACTURER

01/11/17 PLAN MODIFIED, DESIGN CHANGED AND ISSUED FOR DA В 28/03/15 ISSUED FOR DA Α ISSUE: DATE: REVISIONS



INSPECTED AND SERVICED

NASTASI & ASSOCIATES CONSULTING CIVIL & STRUCTURAL ENGINEERS

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APPROVED:

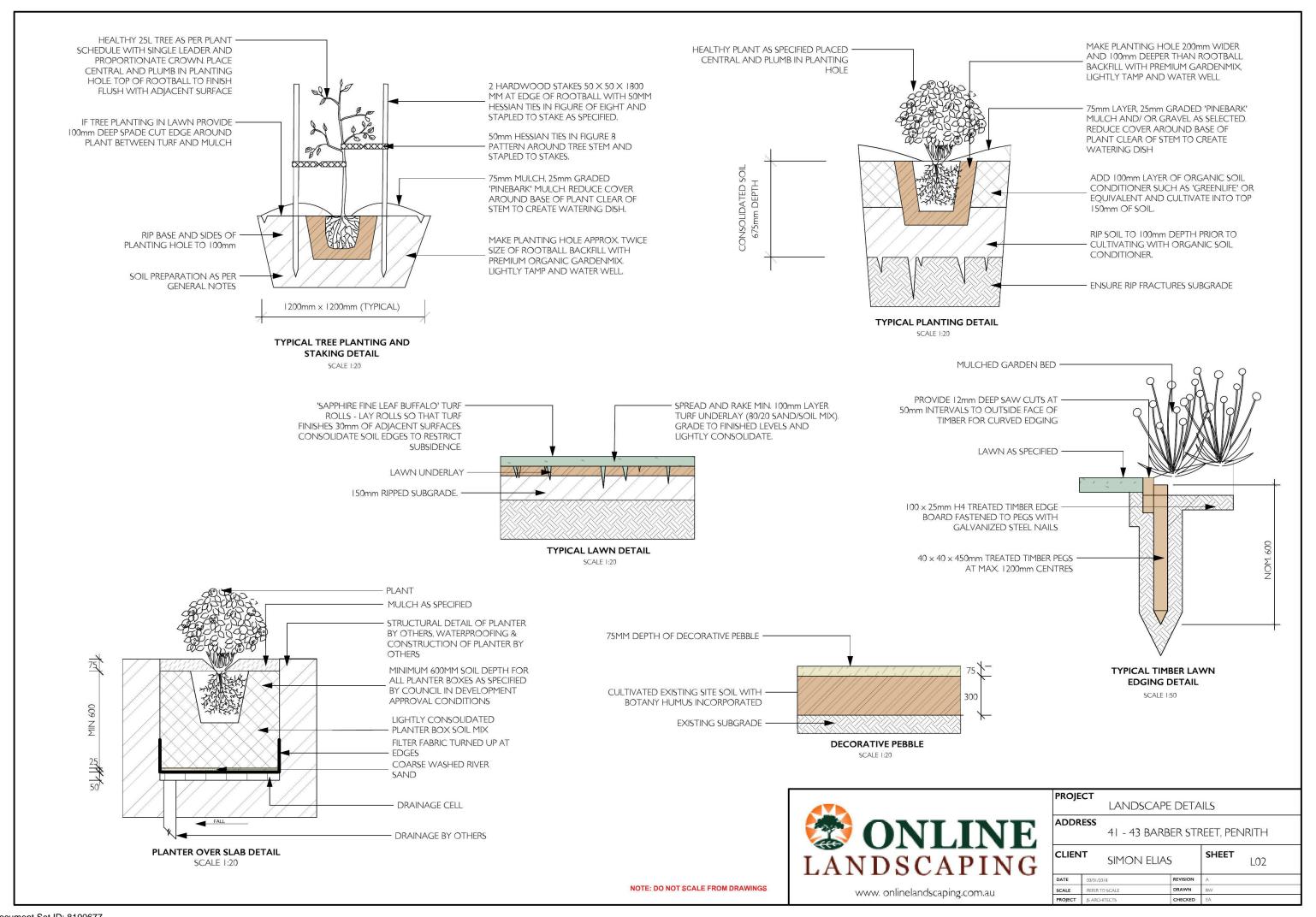
CLIENT: SIMON ELIAS CLIENT No: 5788

PROJECT: 41-43 BARBER AVENUE PENRITH

TITLE: STORMWATER AND SEDIMENT MANAGEMENT PLAN

ISSUED FOR CONSTRUCTION DRAWN: MM

DATE: 28/03/15 SCALE: AS NOTED SHEET No: 08 OF 08 JOB No: 5788



SPECIFICATION

PRELIMINARIES/ GENERAL

The following general conditions should be considered prior to the commencement of landscape works:

The landscape plans should be read in conjunction with the architectural plans, hydraulic plans, service plans and survey prepared for the proposed development. All services including existing drainage should be accurately located prior to the commencement of landscape installation. Any proposed tree planting which falls close to services will be relocated on site under the instruction of the landscape architect. Installation of conduit for required irrigation, electrical and other services shall be completed prior to the commencement of hardscape works and hardstand pours. All outdoor lighting specified by architect or client to be installed by qualified electrician. Anomalies that occur in these plans should be brought to our immediate attention. Where an Australian Standard shall be followed.

PROTECTION OF ADJACENT FINISHES

The Contractor shall take all precautions to prevent damage to all or any adjacent finishes by providing adequate protection to these areas / surfaces prior to the commencement of the Works

EROSION & POLLUTION CONTROL

The Contractor shall take all proper precautions to prevent the erosion of soil from the subject site. The contractor shall install erosion & sediment control barriers throughout the construction period. Note that the sediment control measures adopted should reflect the soil type and erosion characteristics of the site. Erosion & pollution control measures shall incorporate the following: Construction of a sediment trap at the vehicle access point to the subject sit, sediment fencing using a geotextile filter fabric in the location indicated on the erosion control plan or as instructed on site by the landscape architect, earth banks to prevent scour of stockpile, sandbag kerb sediment traps, straw bale & geotextile sediment filter; exposed banks shall be pegged with an approved Jute matting in preparation for mass planting.

SOIL WORKS/PLANTING

Planting Mix: Planting mix for tree pit backfill shall be "Organic Garden Mix" consisting of 50% Black Soil 20% Coarse Sand 30% Organic Material as available from Australian Native Landscapes, Phone: [02] 9450 1444, or approved equivalent. Samples shall be provided to the Superintendent prior to ordering or delivery to site. Any material delivered to site, that is rejected by the Superintendent, shall be removed by the contractor at his own expense. Minimum depths of mix to all planting bed areas is as specified on details.

Mulch to garden bed: Mulch to planter beds shall be graded 'pinebark 'mulch, free from fines and is available from Australian Native Landscapes Pty Ltd Phone (02) 9450 1444, or approved equivalent. Spread mulch so that after settling, it is smooth and evenly graded between design surface levels Flush with adjacent finished levels of the required depths (75mm); and sloped towards the base of plant stems in plantation beds, but not in contact with the stem (not closer than 50mm in the case of gravel mulches). Place after the preparation of the garden bed, planting and all other work.

Plant Material: All plants material must be true to the species. No substitutes will be allowed. All plants shall be free of fungus and insect damage. All plants shall be healthy, well shaped, not soft or force grown and not root bound.

Timber Edging: Timber edging shall be 100 × 25mm h4 treated timber edge board fastened to pegs with galvanized steel nails.

Treated timber pegs to be $40 \times 40 \times 450$ mm at max. I 200mm centre.

Stakes: Trees in 2 x 50x50x1800mm Hardwood Stake with double Nylon tie. Staking Use durable hardwood, straight, free from knots or twists, pointed at one end. Drive stakes into the ground a minimum one third of their length, avoiding damage to the root system.

Ties: Provide a 50mm wide Nylon webbing tie per stake, fixed securely to the stakes, one tie at half the height of the main

stem and the other as necessary to stabilise the plant.

Lawn Areas: All new turfed areas are to be selected weed free Soft Leaf Buffalo. Turf shall be laid neatly butted with staggered joins, flush with adjacent surfaces and have even running falls to all drainage points. All new turfed areas are to be selected weed free top soil, placed and leveled prior to turfing.

DECORATIVE PEBBLE

Decorative Pebble Material: Decorative pebble shall be Crushed Western White Gravel, gravel to be of uniform size or graded material in the size 20-50 mm grade to nominal 75mm thickness as available from Australian Native Landscapes. Ph. (02) 9450-1444.

RETAINING WALLS

Details of retaining walls, position, matertials and structural engineering by others.

CLOTHESLINE

Clothesline shall be positioned as shown on the plan. install as per manufacturer's details to Landscape Architect's approval.

PAVING

Paving area to be filled of excavated as falls and levels of the plan. Stormwater system to be installed by builder with Surface drainage on paving towards grated drains with all drains connected to stormwater system.

STEPPING STONE

Stepping stones shall be positioned as shown on the plan. They shall be placed on 25mm river bed as indicated on the details sheet. Dimensions of the stepping stone as shown on the plan or as indicated otherwise.

FENCING

Fencing to be retianed unless advised by others. Refer to landsape plan..

IRRIGATION SYSTEM AND REQUIREMENTS DESCRIPTION OF WORKS

The scope of works in this section comprises the design and specification (for comment by Superintendent), supply, and installation of fully automated commercial drip irrigated is as shown on plans and includes: i. Planter bed areas to be irrigated by "Techline" dripline at 750mm intervals, capable of delivering 20mm / week ii. Garden bed areas to be irrigated by "Uniram" dripline at 500mm intervals, capable of delivering 30mm / week. The Contractor shall provide shop drawings and materials and equipment specifications for comment by the Superintendent. Not with standing comments on the irrigation and adequacy of performance of the irrigation system will remain with the Contractor.

PROTECTION OF EXISTING TREES

Existing trees identified to be retained shall be done so in accordance with a qualified Aborist. Where general works are occurring around such trees, or pruning is required, a qualified Arborist shall be engaged to oversee such works and manage tree health. Existing trees designated on the drawing for retention shall be protected at all times during the construction period. Any soil within the drip-line of existing trees shall be excavated and removed by hand only. No stockpiling shall occur within the root zone of existing trees to be retained. Any roots larger in diameter than 50mm shall only be severed under instruction by a qualified arborist. Roots smaller than 50mm diameter shall be cut cleanly with a saw. Temporary fencing shall be installed around the base of all trees to be retained for the full construction period.

FEES, PERMITS AND APPROVALS

The Contractor shall be responsible for securing all necessary inspections and approvals. Before commencement of any works on the site the Contractor shall obtain approval from the Superintendent for the works to proceed and submit the necessary notification forms to all authorities having jurisdiction. These shall include but are not limited to the following: Connection Fees & Inspection Fees and shall produce documentary evidence to the Superintendent upon request.

EXISTING FACILITIES, ULTILITIES AND SERVICES

The Contractor's attention is drawn to the existence of utility services within the works. The Contractor shall liaise and consult with services authorities as required during the course of the project. Any damage to services or infrastructure facilities caused by any actions of the Contractor shall be repaired entirely to the satisfaction of the owner of such services and costs incurred shall be borne solely by the Contractor. When a service must be interrupted to enable the carrying out of works under this contract such interruption shall be at a time agreed with the responsible authority or owner and the Superintendent. The Contractor shall be borne by the Contractor.

MAINTENANCE / PLANT ESTABLISHMENT

Maintenance shall apply to all hard and soft landscape materials installed prior to the "handover" and acceptance by Principles Representative and the Site Superintendent. The maintenance period shall convenience at the granting of practical completion and shall extend for 26 weeks. Maintenance shall consist of the following works: Follow a daily watering programme to be approved by Superintendent. Water all plants individually, twice per week or when necessary to ensure constant plant growth. Water all turf and native grassed areas, twice per week, Apply appropriate weed control sprays and hand weed as required to maintain planting areas, native grassing bed areas, turfed areas, paved areas, and tree pits in turf free of weed or rogue grass growth. Regularly tidy and top up mulch and trim edges to prevent spill over onto paved / grassed areas, Spray to control pests and diseases. Replace plants, which fail with plants of a similar size and quality as originally specified to approval of Superintendent. Costs of replacement shall be the responsibility of the Contractor. Replacement planting will be undertaken within 2 weeks of identification of dead material or instruction be the Superintendent. Report any incidence of plants stolen or destroyed by vandalism. Adjust stakes and ties to plants as necessary. Ensure that strangulation of plants does not occur. Prune and shape plants as directed or where necessary. Make good any defects or faults arising out of defective workmanship or materials. Fertilise lawn areas to maintain healthy growth. Make good any erosion or soil subsidence, which may occur including soft areas in pathways. Mow lawn to maintain neat healthy growth. A final inspection shall be made by the Superintendent before handover. Any items requiring rectification shall be repaired before the works are finally approved, and retention moneys released.



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LANDSCAPE SPECIFICATION						/1 \
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