

Solar Access & Cross Ventilation Calculations																				
Dwelling	9AM	10AM	11AM	12NOON	1PM	2PM	Total	Total 2hrs	Total 3hrs	Count	Count Calc	Count Calc Percent	Solar 2hrs Percent	Solar Access 2hrs	Solar 3hrs Percent	Solar Access 3hrs	Cross Vent	Cross Vent Calc	Cross Vent Percent	Cross Ventilation
UNIT 01	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 02	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 03	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 04	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 05	Yes	Yes	No	No	No	No	2	1	0	1	1	2%	2%	Yes	0%	No	Yes	1	2%	Yes
UNIT 06	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	No	0	0%	No
UNIT 07	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 08	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 09	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 10	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 11	No	No	No	Yes	Yes	Yes	3	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 12	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 13	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 14	Yes	Yes	No	No	No	No	2	1	0	1	1	2%	2%	Yes	0%	No	Yes	1	2%	Yes
UNIT 15	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	No	0	0%	No
UNIT 16	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
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UNIT 18	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 19	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 20	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 21	No	No	No	No	Yes	Yes	2	1	0	1	1	2%	2%	Yes	0%	No	No	0	0%	No
UNIT 22	No	No	No	Yes	Yes	Yes	3	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 23	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 24	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 25	No	No	No	No	No	No	0	0	0	1	1	2%	0%	No	0%	No	Yes	1	2%	Yes
UNIT 26	Yes	Yes	No	No	No	No	2	1	0	1	1	2%	2%	Yes	0%	No	Yes	1	2%	Yes
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UNIT 45	No	No	No	No	Yes	Yes	2	1	0	1	1	2%	2%	Yes	0%	No	No	0	0%	No
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UNIT 55	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
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UNIT 58	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 59	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 60	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
UNIT 61	Yes	Yes	Yes	Yes	Yes	Yes	6	1	1	1	1	2%	2%	Yes	2%	Yes	Yes	1	2%	Yes
Grand total: 61								43	35	61	61	100%	70%		57%				89%	

Sheet List	
Sheet Number	Sheet Name
A101	COVER PAGE
A102	SURVEY PLAN
A103	BASIX COMMITMENTS
A104	SITE ANALYSIS
A105	SITE PLAN
A106	BASEMENT 2
A107	BASEMENT 1
A108	GROUND FLOOR
A109	LEVEL 1
A110	LEVEL 2
A111	LEVEL 3
A112	LEVEL 4
A113	LEVEL 5
A114	ROOF PLAN
A115	NORTH ELEVATION
A116	SOUTH ELEVATION
A117	EAST ELEVATION
A118	WEST ELEVATION
A119	SECTION
A120	SECTION
A121	SECTION
A122	SITE CALCULATIONS
A123	3D PERSPECTIVE
A124	SHADOW DIAGRAMS
A125	SHADOW DIAGRAMS
A126	SHADOW DIAGRAMS
A127	SOLAR ANALYSIS
A128	BUILDING HEIGHT PLANE



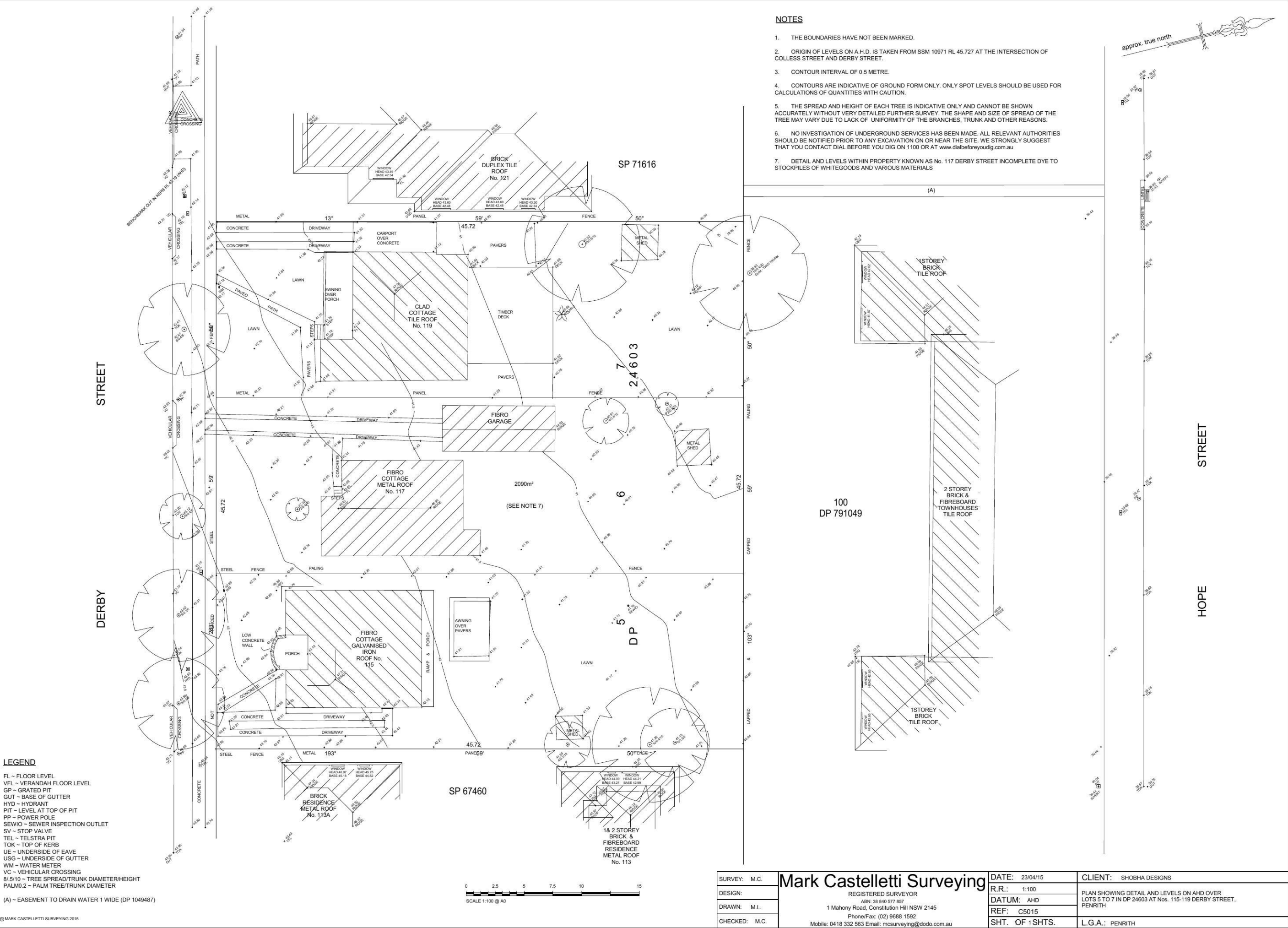
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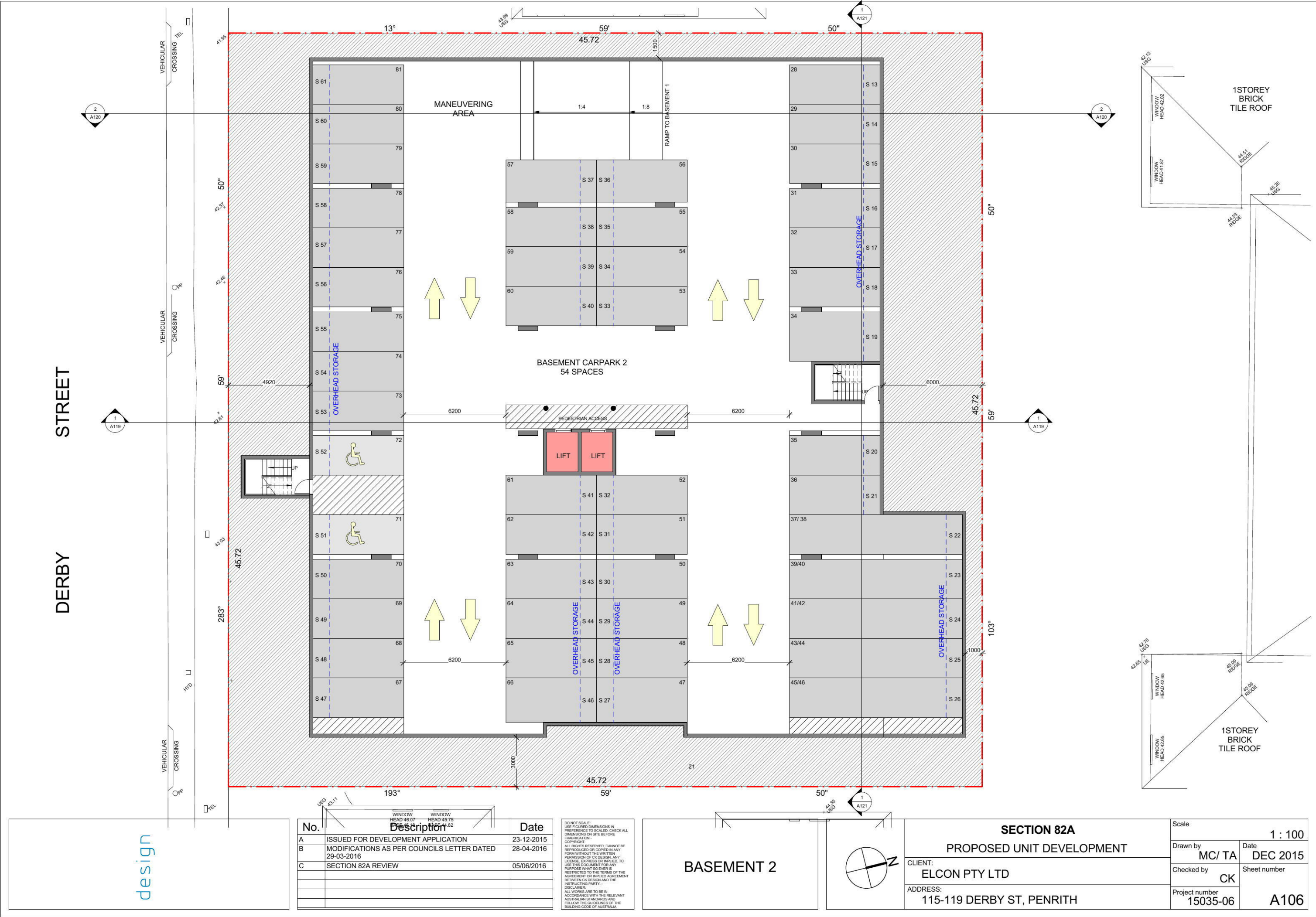
Issue	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCILS LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

SECTION 82A

PROPOSED UNIT DEVELOPMENT

ADDRESS:
115-119 DERBY ST, PENRITH
CLIENT:
ELCON PTY LTD





No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCILS LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

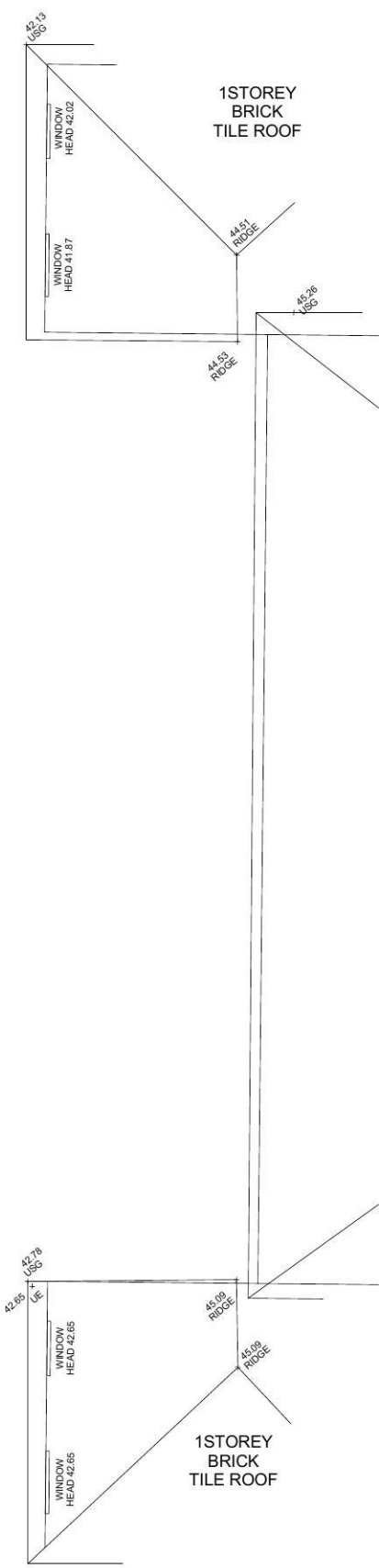
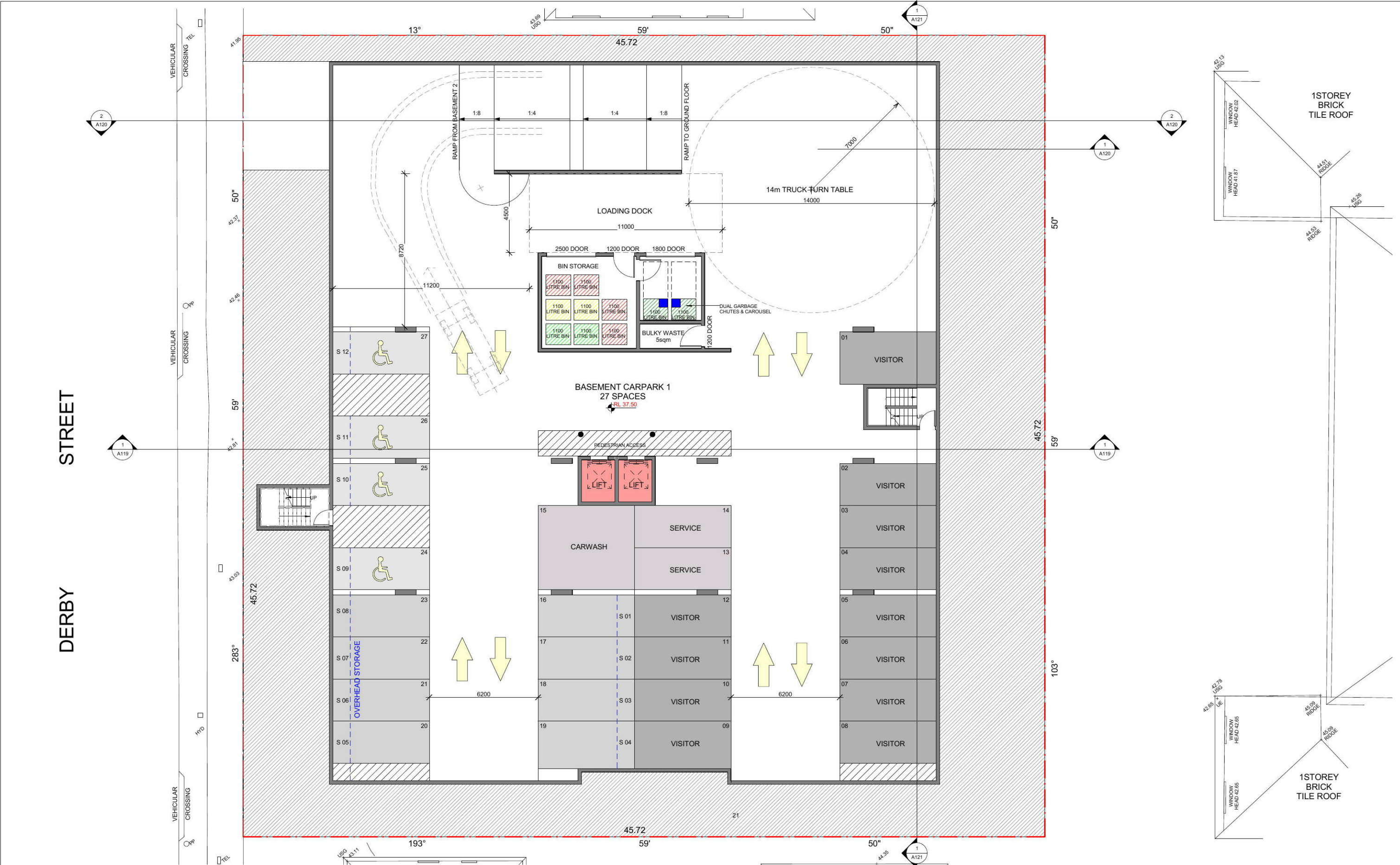
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BASEMENT 2

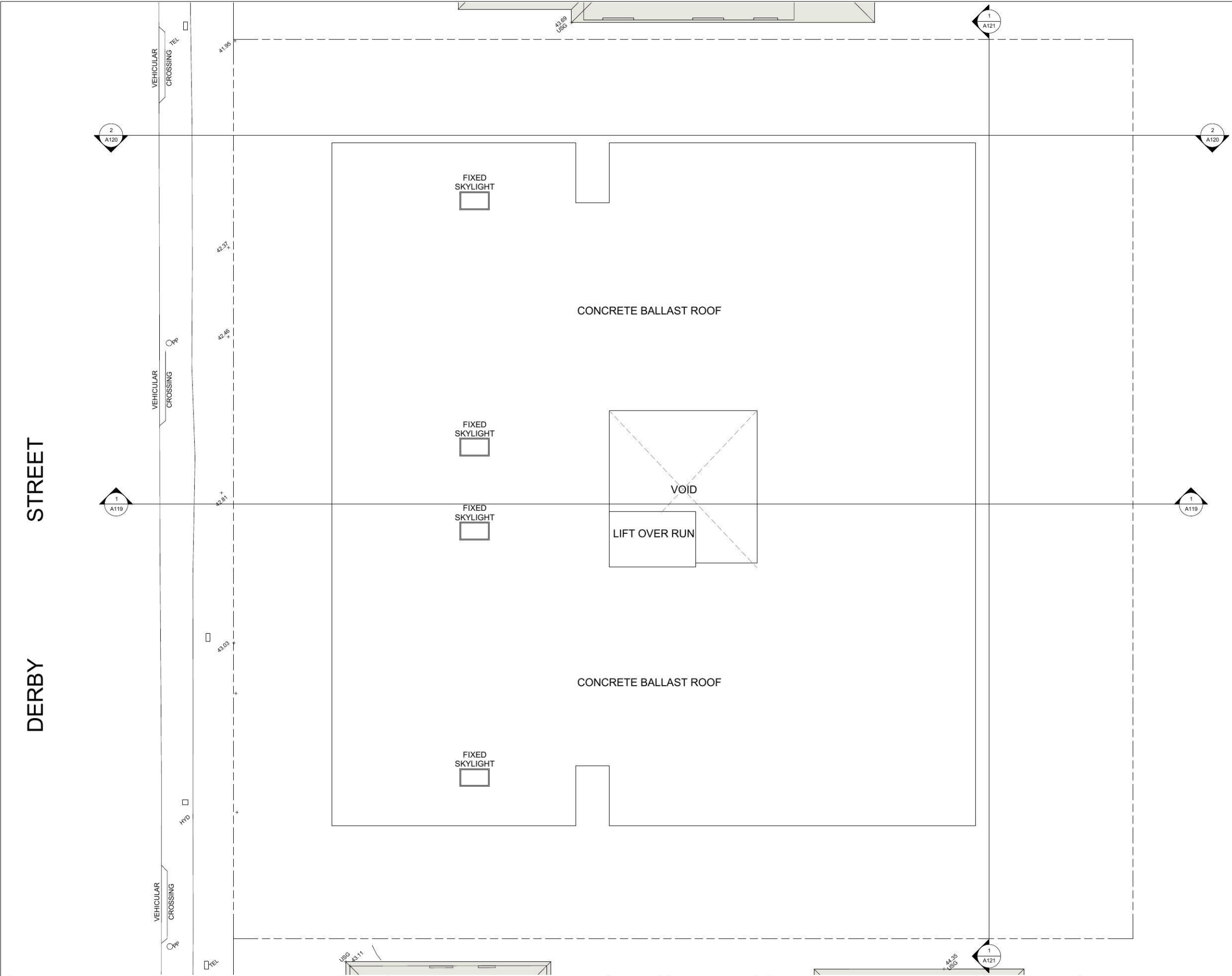


SECTION 82A PROPOSED UNIT DEVELOPMENT	
CLIENT: ELCON PTY LTD	Scale 1 : 100
ADDRESS: 115-119 DERBY ST, PENRITH	Drawn by MC/ TA
	Date DEC 2015
	Checked by CK
	Sheet number
	Project number 15035-06
	A106

Scale 1 : 100	Date DEC 2015
Drawn by MC/ TA	Sheet number
Checked by CK	
Project number 15035-06	A106



design	No.		Description	Date	DO NOT SCALE. USE FIGURED DIMENSIONS IN PREFERENCE TO SCALED. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATION. COPYRIGHT © ALL RIGHTS RESERVED. CANNOT BE REPRODUCED OR COPIED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF CK DESIGN. ANY LICENSE, EXPRESS OR IMPLIED, TO USE THIS DOCUMENT FOR ANY PURPOSE WHATSOEVER IS HEREBY RESTRICTED TO THE TERMS OF THE AGREEMENT OR IMPLIED AGREEMENT BETWEEN CK DESIGN AND THE INSTRUCTING PARTY. DISCLAIMER: ALL WORKS ARE TO BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND FOLLOW THE GUIDELINES OF THE BUILDING CODE OF AUSTRALIA.	BASEMENT 1		SECTION 82A PROPOSED UNIT DEVELOPMENT CLIENT: ELCON PTY LTD ADDRESS: 115-119 DERBY ST, PENRITH	Scale 1 : 100	
	A	ISSUED FOR DEVELOPMENT APPLICATION		23-12-2015					Drawn by MC/ TA	Date DEC 2015
	B	MODIFICATIONS AS PER COUNCILS LETTER DATED 29-03-2016		28-04-2016					Checked by CK	Sheet number
	C	SECTION 82A REVIEW		05/06/2016					Project number 15035-06	A107



NOTE:
1. ALL WINDOWS 2.0m ABOVE GROUND LEVEL ARE REQUIRED TO HAVE A BARRIER DEVICE TO LIMIT THE WINDOW OPENING TO NO MORE THAN 125mm IN ACCORDANCE WITH CLAUSE 3.9.2.5 OF BCA
2. ALL WINDOWS AND DOOR SIZES TO BE CONFIRMED ONSITE PRIOR TO MANUFACTURING AND INSTALLATION
3. REFER TO BASIX FOR ALL WINDOW AND DOOR SPECIFICATION AND RATINGS
4. ALL STAIR TREADS AND NOSING STRIP TO COMPLY WITH AS 4586-2013 AND TABLE 3.9.1.1 OF BCA
5. ALL SMOKE ALARMS ARE TO BE INTERCONNECTED

Door Schedule				
Mark	Width	Height	Function	Count
1	3200	2400	Exterior	48
2	1100	2400	Exterior	25
3	4200	2400	Exterior	13
4	2100	2400	Exterior	15
6	950	2100	Exterior	68
7	1800	2400	Exterior	1
8	2800	2400	Exterior	2
GD2	6000	2400	Exterior	1

Grand total: 173

Window Schedule			
Mark	Width	Height	Count
1	1100	2700	47
2	1200	600	42
3	2100	600	18
4	750	1800	12
5	1100	1500	1
6	1100	1500	1
7	1100	1500	1
8	1100	1500	1
9	1100	1500	1
10	1100	1500	1
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13	1100	1500	1
14	1100	1500	1
15	1100	1500	1
16	1100	1500	1

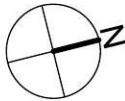
Grand total: 131

NOTE:
*MECHANICAL/ NATURAL VENTILATION TO COMPLY WITH THE BUILDING CODE OF AUSTRALIA, PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997 & RELEVANT AUSTRALIAN STANDARDS
*ACCESS FOR PEOPLE WITH DISABILITIES MUST BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA, RELEVANT AUSTRALIAN STANDARDS & WITH REGARD TO THE DISABILITYDISCRIMINATION ACT 1992

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
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C	SECTION 82A REVIEW	05/06/2016

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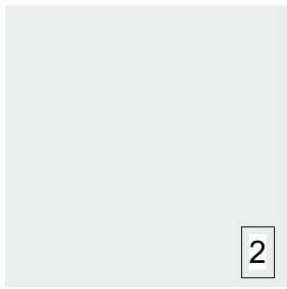
ROOF PLAN



SECTION 82A		Scale	
PROPOSED UNIT DEVELOPMENT		1 : 100	
CLIENT: ELCON PTY LTD		Drawn by MC/ TA	Date DEC 2015
ADDRESS: 115-119 DERBY ST, PENRITH		Checked by CK	Sheet number
		Project number 15035-06	A114



SHADOWCLAD PAINTED
DULUX - DOMINO



PAINTED RENDER
DULUX - LEXICON



PAINTED RENDER
DULUX - TIMELESS GREY



PAINTED RENDER
DULUX - DOMINO



TIMBA - STEEL CLADDING
TIMBER FINISH



WINDOW & DOOR FRAME
POWDERCOATED CHARCOAL

design

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCIL'S LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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NORTH ELEVATION

SECTION 82A	
PROPOSED UNIT DEVELOPMENT	
CLIENT:	ELCON PTY LTD
ADDRESS:	115-119 DERBY ST, PENRITH

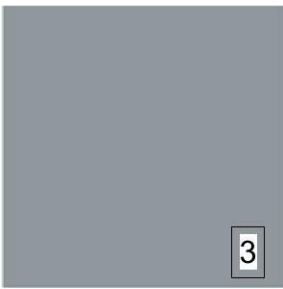
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Drawn by	MC/ TA
Date	DEC 2015
Checked by	CK
Project number	15035-06
Sheet number	A115



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DULUX - DOMINO



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DULUX - LEXICON



PAINTED RENDER
DULUX - TIMELESS GREY



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DULUX - DOMINO



TIMBA - STEEL CLADDING
TIMBER FINISH



WINDOW & DOOR FRAME
POWDERCOATED CHARCOAL

design

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCIL'S LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

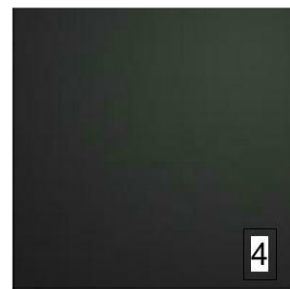
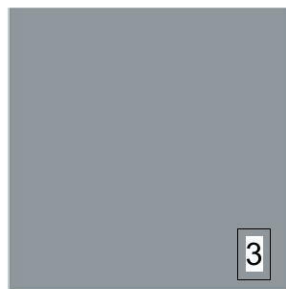
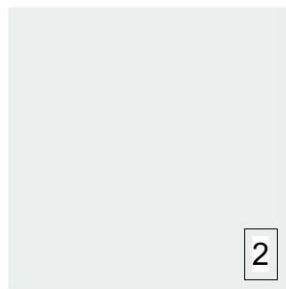
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SOUTH ELEVATION

SECTION 82A PROPOSED UNIT DEVELOPMENT

CLIENT:
ELCON PTY LTD
ADDRESS:
115-119 DERBY ST, PENRITH

Scale	1 : 100
Drawn by	MC/ TA
Date	DEC 2015
Checked by	CK
Project number	15035-06
Sheet number	A116



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DULUX - DOMINO

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DULUX - LEXICON

PAINTED RENDER
DULUX - TIMELESS GREY

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DULUX - DOMINO

TIMBA - STEEL CLADDING
TIMBER FINISH

WINDOW & DOOR FRAME
POWDERCOATED CHARCOAL

design

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
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C	SECTION 82A REVIEW	05/06/2016

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EAST ELEVATION

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ADDRESS:	115-119 DERBY ST, PENRITH

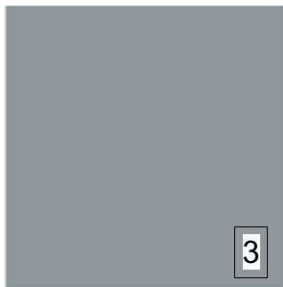
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Drawn by	MC/ TA
Date	DEC 2015
Checked by	TA
Project number	15035-06
Sheet number	A117



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WINDOW & DOOR FRAME
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WEST ELEVATION

SECTION 82A PROPOSED UNIT DEVELOPMENT

CLIENT:
ELCON PTY LTD
ADDRESS:
115-119 DERBY ST, PENRITH

Scale	1 : 100
Drawn by MC/ TA	Date DEC 2015
Checked by CK	Sheet number A118
Project number 15035-06	



1 SECTION D
1 : 100

design

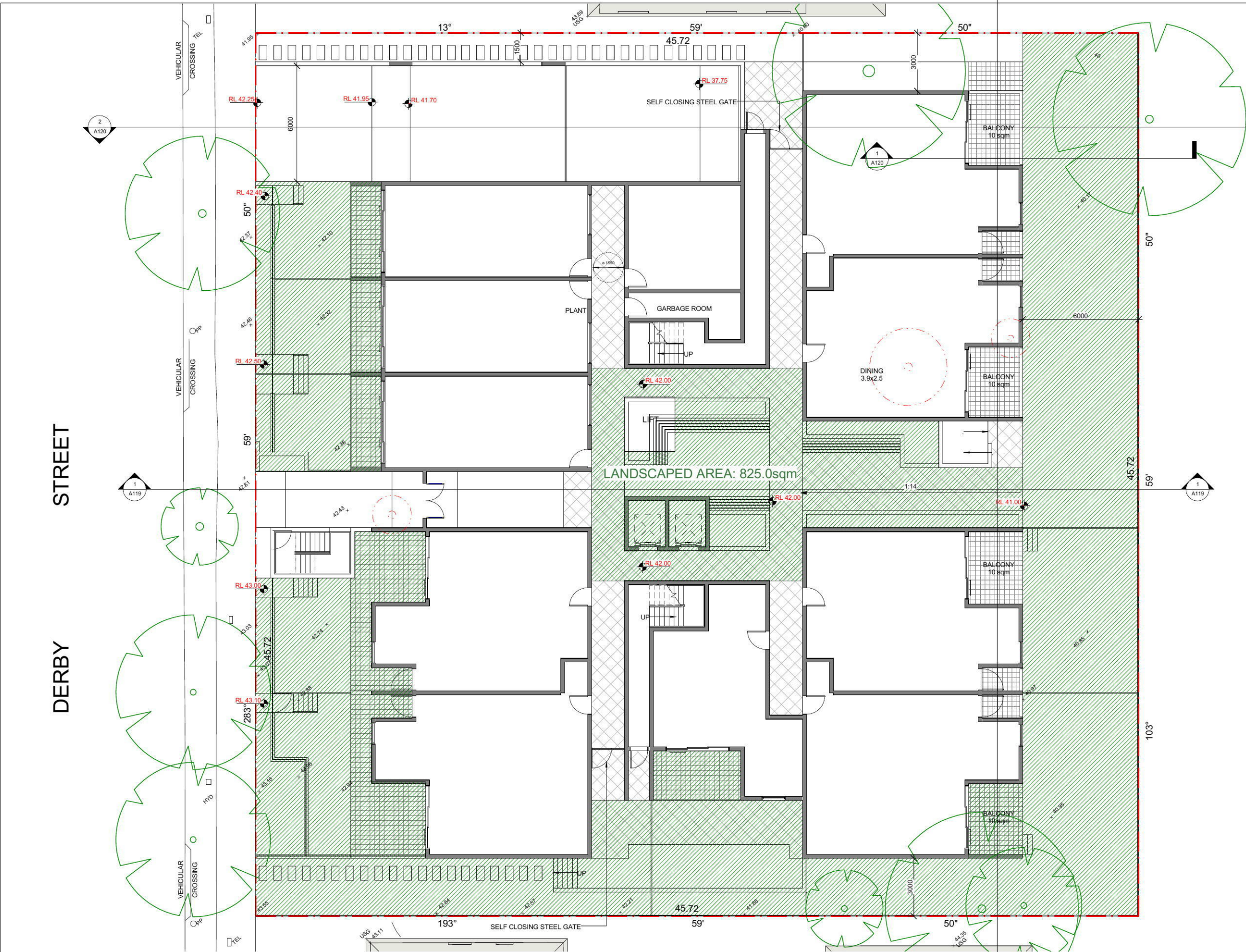
No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCIL'S LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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SECTION

SECTION 82A PROPOSED UNIT DEVELOPMENT	
CLIENT: ELCON PTY LTD	
ADDRESS: 115-119 DERBY ST, PENRITH	

Scale	1 : 100
Drawn by NH	Date DEC 2015
Checked by CK	Sheet number A121
Project number 15035-06	



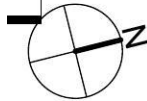
SITE AREA= 2090.0sqm	
TOTAL UNIT MIX	
3 BED UNIT:	5 UNITS
2 BED UNIT:	40 UNITS
1 BED + STUDY UNIT:	6 UNITS
1 BED UNIT:	10 UNITS
TOTAL UNITS:	61 UNITS
F.S.R PROPOSED	N/A
LANDSCAPED AREA (deep soil) REQUIRED	731.0sqm 35%
PROPOSED	825sqm 39.47%
SOLAR ANALYSIS REQUIRED	2HRS=70%
PROPOSED	2HRS=70%
43/61	
CROSS VENTILATION REQUIRED	50%
PROPOSED	89%
CAR PARKING RESIDENTIAL	66 SPACES
VISITOR	12 SPACES
SERVICE	2 SPACES
CARWASH	1 SPACE

design

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCILS LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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SITE CALCULATIONS



SECTION 82A PROPOSED UNIT DEVELOPMENT	
CLIENT: ELCON PTY LTD	
ADDRESS: 115-119 DERBY ST, PENRITH	

Scale	1 : 100	
Drawn by	TA	Date DEC 2015
Checked by	CK	Sheet number
Project number 15035-06	A122	



design

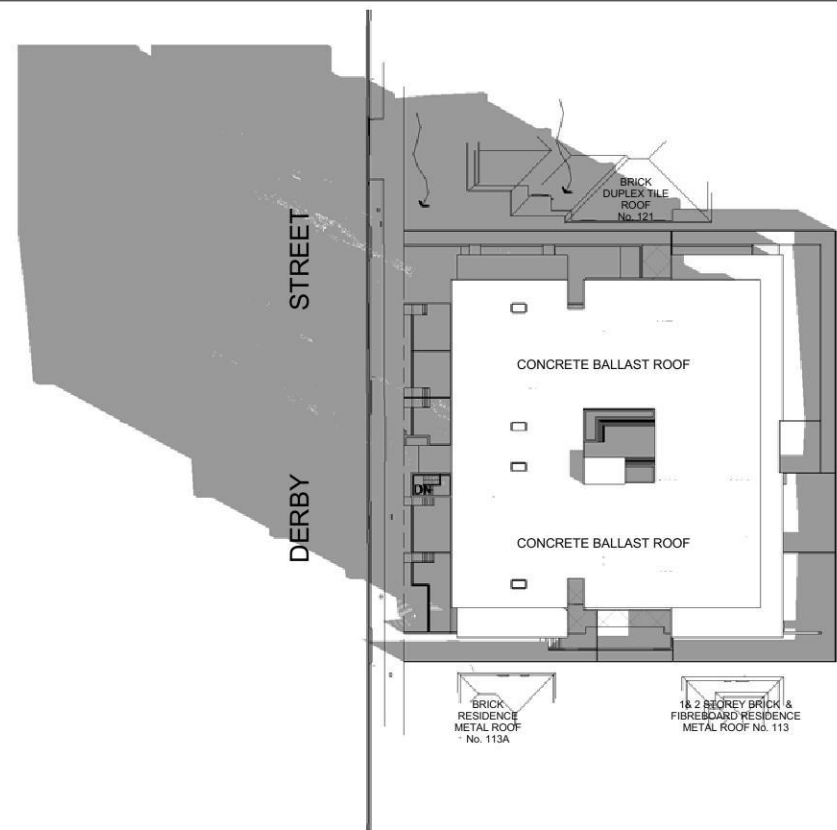
No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015

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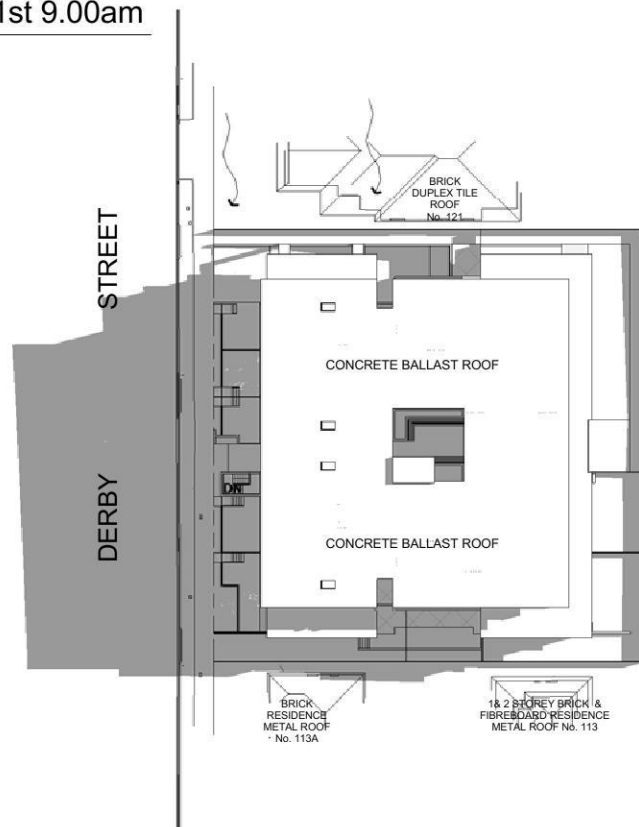
3D PERSPECTIVE

SECTION 82A PROPOSED UNIT DEVELOPMENT	
CLIENT:	ELCON PTY LTD
ADDRESS:	115-119 DERBY ST, PENRITH

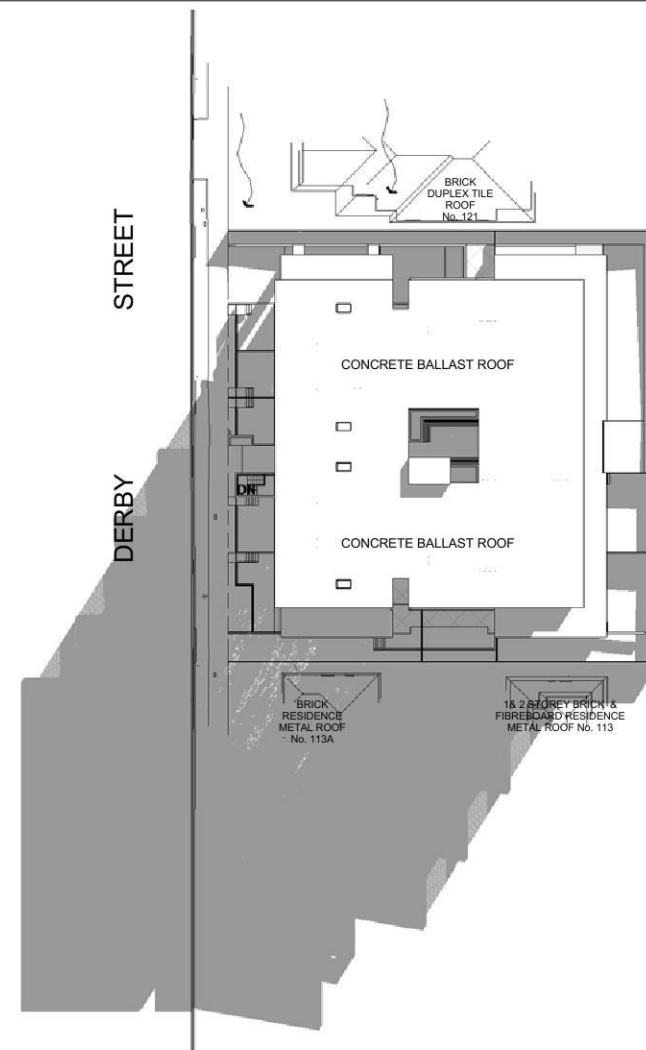
Scale	
Drawn by	MK
Date	DEC 2015
Checked by	CK
Project number	15035-06
Sheet number	A123



1 SHADOW DIAGRAMS - JUNE 21st 9.00am
1 : 400



2 SHADOW DIAGRAMS - JUNE 21st 12.00pm
1 : 400



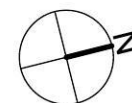
3 SHADOW DIAGRAMS - JUNE 21st 3.00pm
1 : 400

design

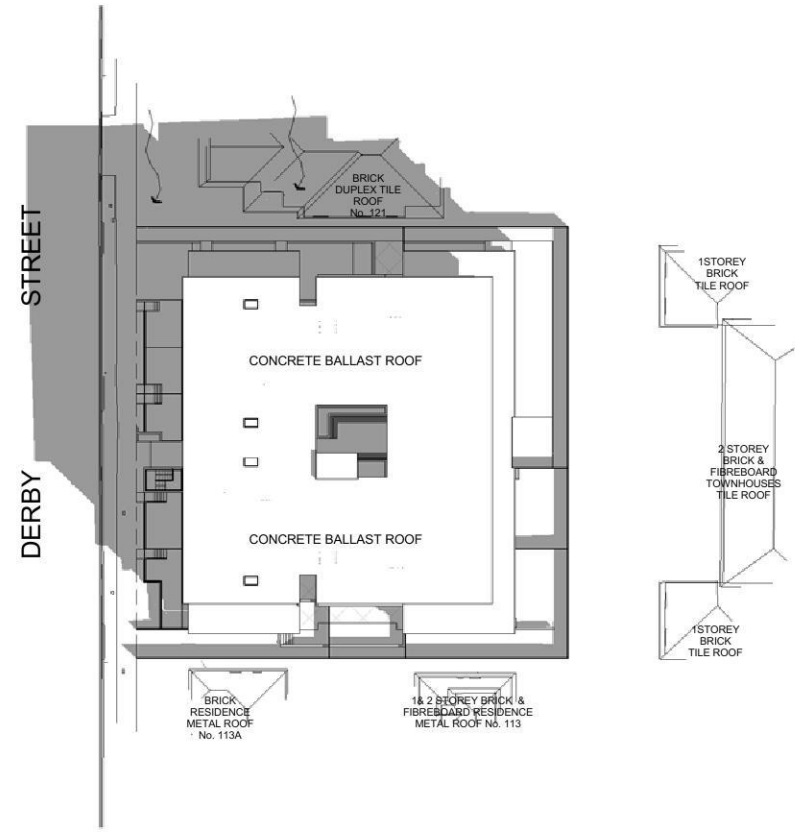
No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCIL'S LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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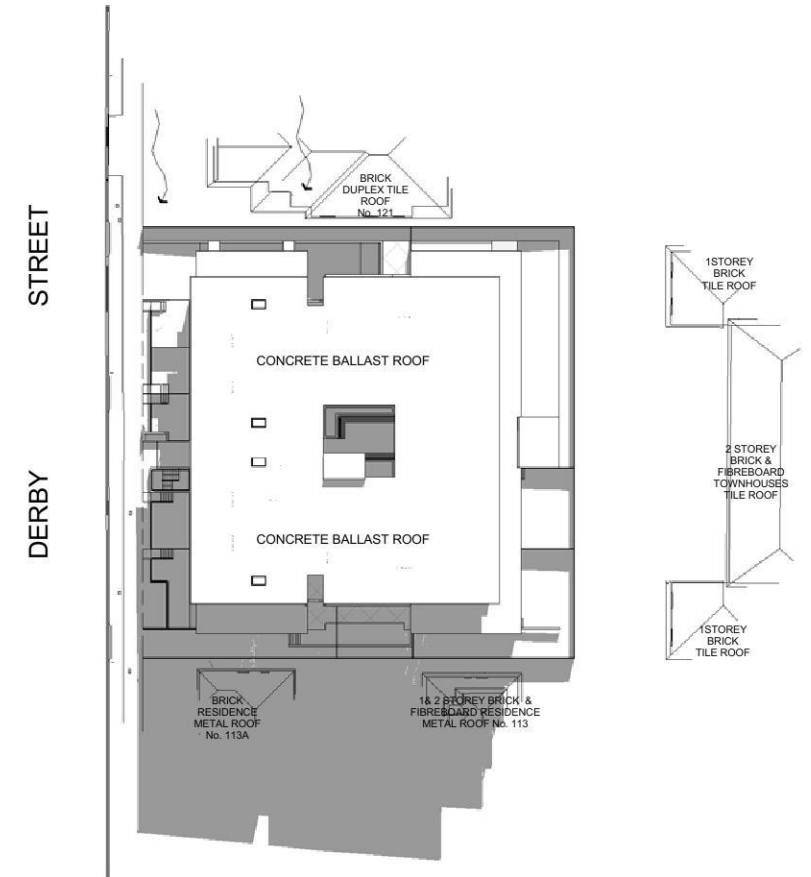
SHADOW
DIAGRAMS



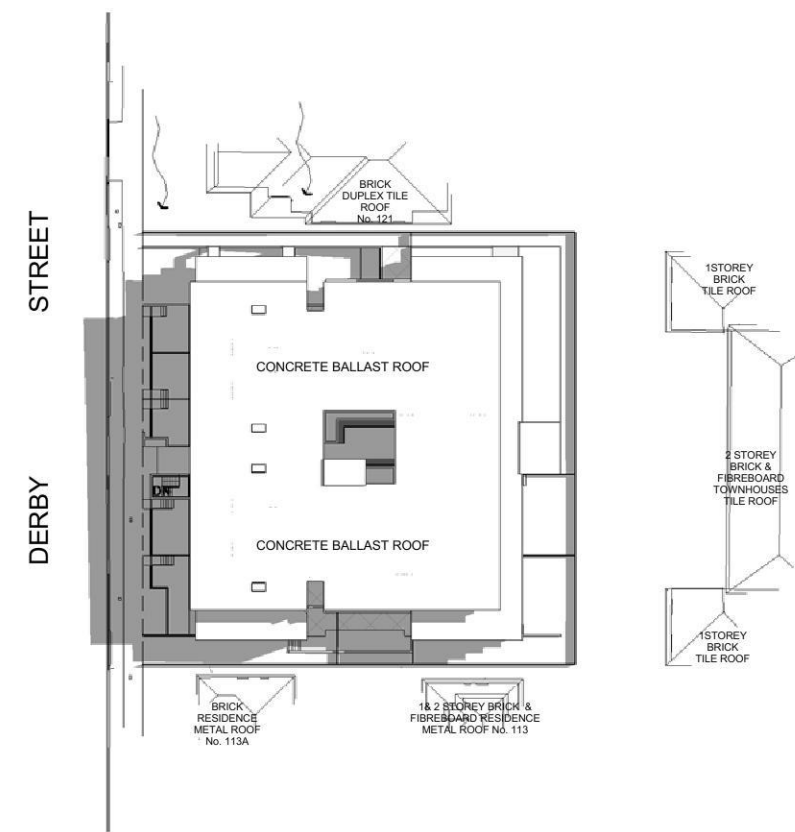
SECTION 82A PROPOSED UNIT DEVELOPMENT		Scale 1 : 400	
CLIENT: ELCON PTY LTD		Drawn by MC/ TA	Date DEC 2015
ADDRESS: 115-119 DERBY ST, PENRITH		Checked by CK	Sheet number
		Project number 15035-06	A124



1 SHADOW DIAGRAMS - SEPT 21st 9.00am
1 : 400



3 SHADOW DIAGRAMS - SEPT 21st 3.00pm
1 : 400



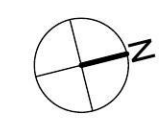
2 SHADOW DIAGRAMS - SEPT 21st 12.00pm
1 : 400

design

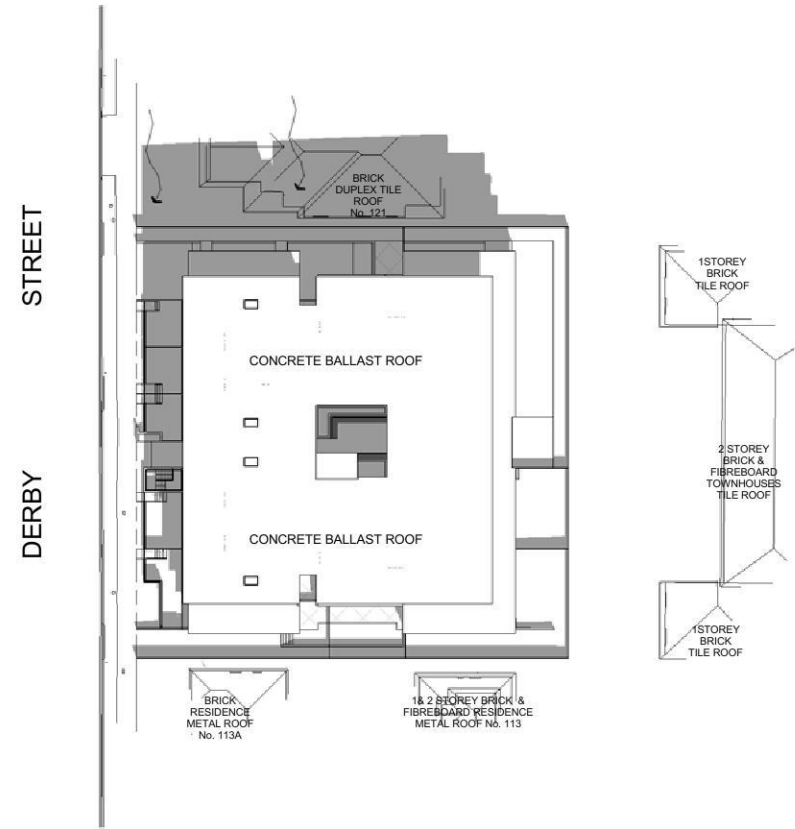
No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCIL'S LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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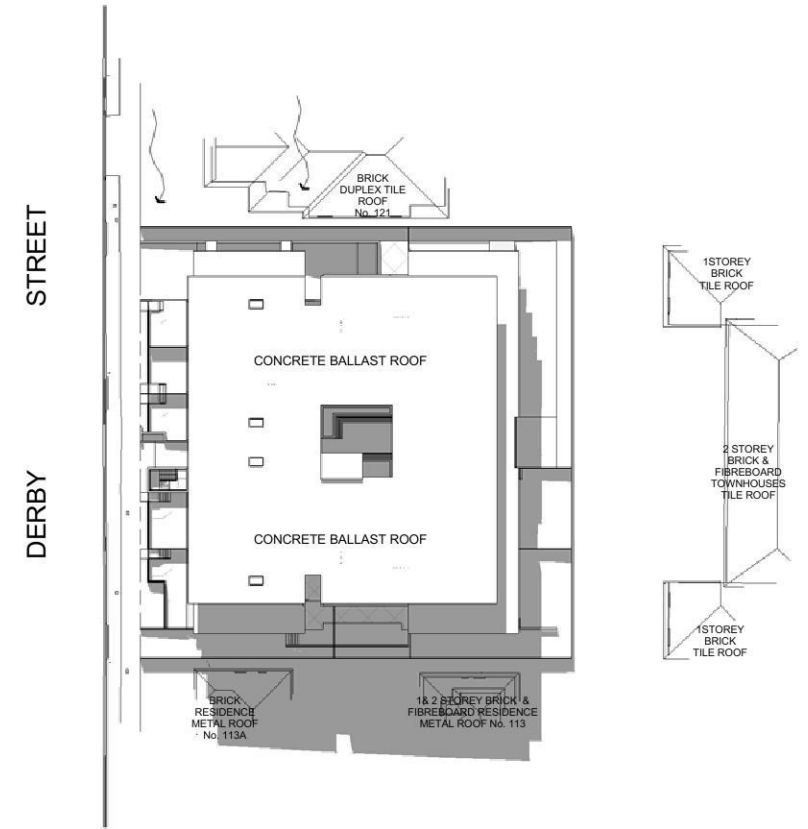
SHADOW DIAGRAMS



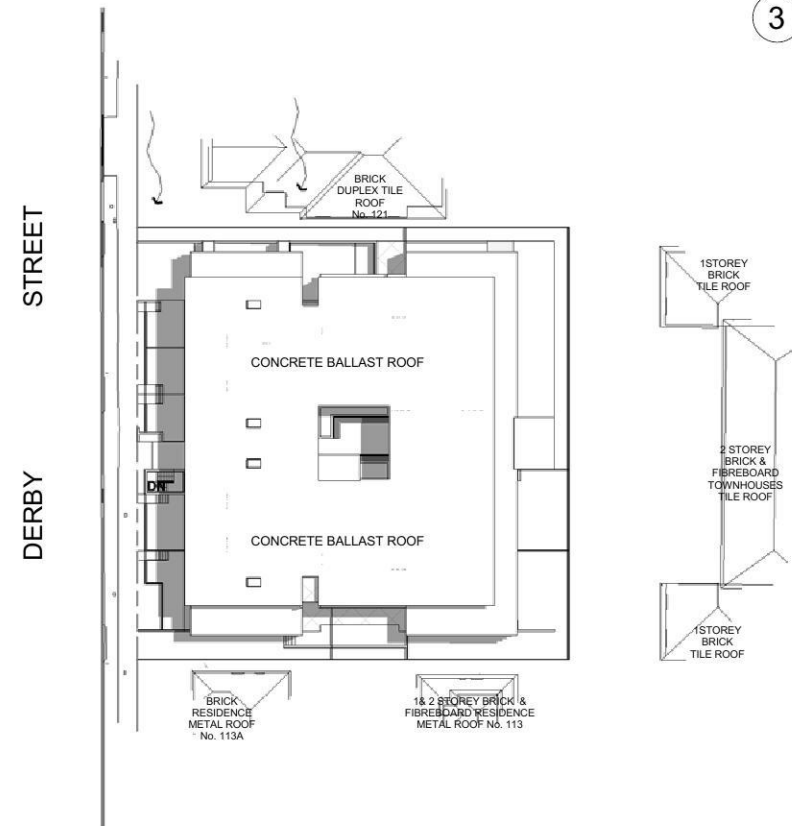
SECTION 82A PROPOSED UNIT DEVELOPMENT		Scale 1 : 400	
CLIENT: ELCON PTY LTD		Drawn by MC/ TA	Date DEC 2015
ADDRESS: 115-119 DERBY ST, PENRITH		Checked by CK	Sheet number A125
		Project number 15035-06	



1 SHADOW DIAGRAMS - DEC 22nd 9.00am
1 : 400



3 SHADOW DIAGRAMS - DEC 22nd 3.00pm
1 : 400



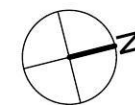
2 SHADOW DIAGRAMS - DEC 22nd 12.00pm
1 : 400

design

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCILS LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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SHADOW
DIAGRAMS



SECTION 82A PROPOSED UNIT DEVELOPMENT		Scale 1 : 400	
CLIENT: ELCON PTY LTD		Drawn by MC/ TA	Date DEC 2015
ADDRESS: 115-119 DERBY ST, PENRITH		Checked by CK	Sheet number
		Project number 15035-06	A126



BUILDING HEIGHT PLANE 01



BUILDING HEIGHT PLANE 01

design

No.	Description	Date
A	ISSUED FOR DEVELOPMENT APPLICATION	23-12-2015
B	MODIFICATIONS AS PER COUNCIL'S LETTER DATED 29-03-2016	28-04-2016
C	SECTION 82A REVIEW	05/06/2016

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BUILDING HEIGHT PLANE

SECTION 82A PROPOSED UNIT DEVELOPMENT		Scale	
		Drawn by TA	Date DEC 2015
CLIENT: ELCON PTY LTD		Checked by CK	Sheet number A128
		Project number 15035-06	
ADDRESS: 115-119 DERBY ST, PENRITH			