

12 May 2023

Ahsan Timori
Unify Constructions
U42/62 Cosgrove Rd
Strathfield South NSW 2136

Re: Development at 37 Claremont Street, Campsie, NSW 2194 - Car Park Certificate

Dear Ahsan,

I refer to your request to prepare a car park certificate for the subject development at Campsie. This letter contains our advice in relation to relevant Australian Standards AS2890.1 (2004) and AS2890.6 (2009).

1 Relevant drawings

The relevant drawings are highlighted in Table 1.1 and shown in Appendix A.

Table 1.1 Relevant drawings

Drawing title	Prepared by	Drawing number	Issue	Date
Basement Floor Plan	Nuovo Design Studio	A.03	D	5/05/2023
Sections	Nuovo Design Studio	A.14	D	5/05/2023
Driveway Section	Nuovo Design Studio	A.15	D	5/05/2023

2 Car park compliance

The requirements for the car park compliance have been checked with the design and are shown in Table 2.1.

Table 2.1 Compliance assessment

Item	Requirements	Designed
Car space dimensions		
Standard car space	2.4 m x 5.4 m	2.4 m x 5.4 m
Accessible car space	2.4 m x 5.4 m	2.4 m x 5.4 m
Shared zone	2.4 m x 5.4 m	2.4 m x 5.4 m
Height clearance		
Standard car space	2.2 m	2.65 m
Accessible car space	2.5 m	2.65 m
Ramp	2.2 m	2.65 m
Ramp grade		
Maximum grade	25%	25%
Maximum change of grade	12.5%	12.5%
Car park grade	5%	5%
Other requirements		
Aisle width	5.8 m	6.1 m
Blind aisle extension	1 m	1.64 m
Circulation width	5.5 m	6.1 m
Ramp width	3 m with 300 mm on both sides	3 m with 300 mm on both sides

A swept path assessment has been undertaken using a B85 car to confirm there is adequate manoeuvrability, as per Appendix B4.4 of AS2890.1 (2004). A vertical clearance check using a B99 vehicle has been carried out to ensure there is adequate ground clearance, as per Appendix C1 of AS2890.1 (2004). The swept path and ground clearance assessment is presented in Appendix B.

3 Conclusion

In my professional view, the car park design complies with AS2890.1 and AS2890.6.

Please feel free to contact me on 0425 478 650 if you have any questions.

Yours sincerely,



Abdullah Uddin

Associate Traffic Engineer

auddin@emmconsulting.com.au

Engineers Australia Chartered Professional Engineer (CPEng)

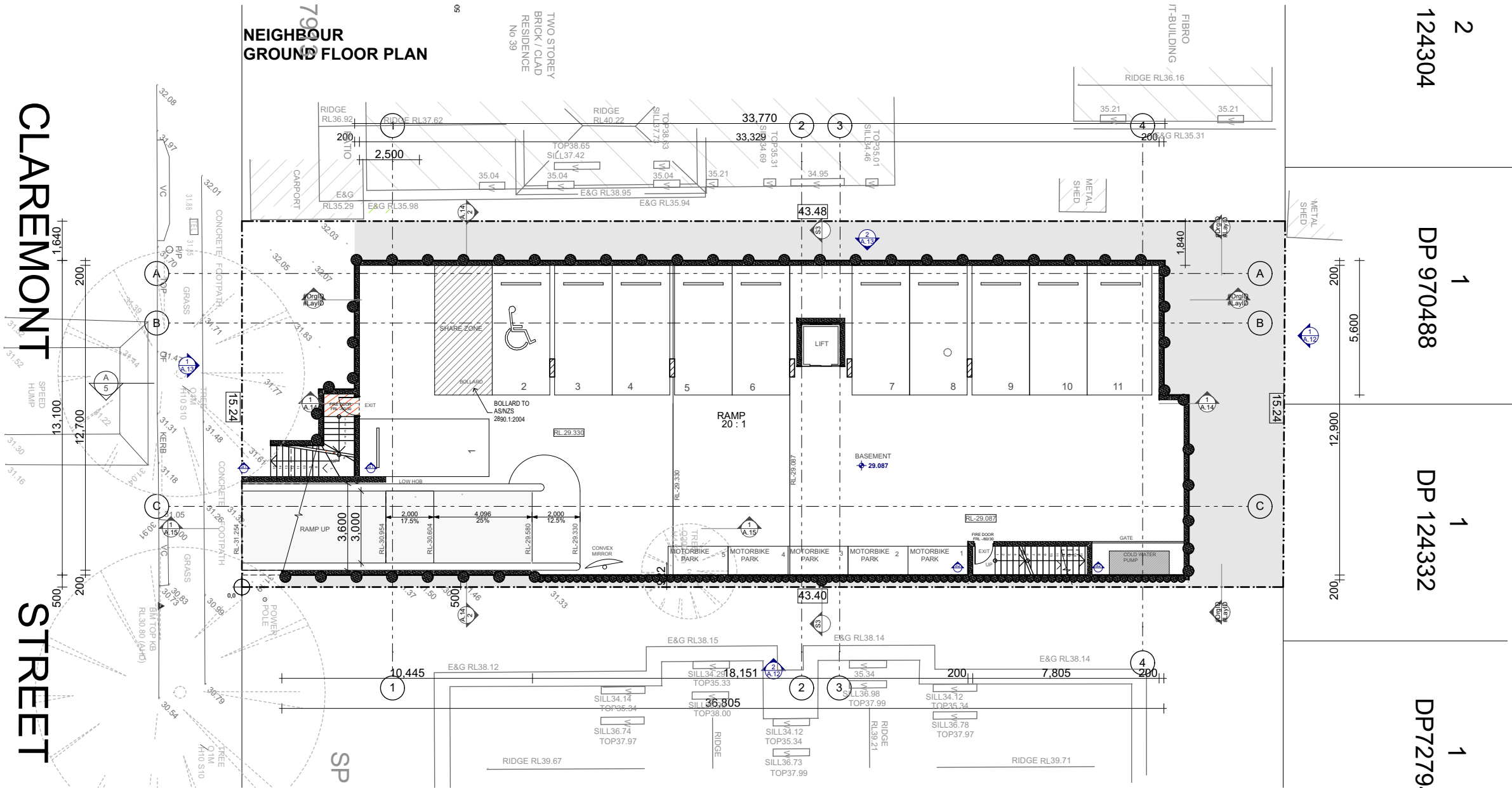
Membership Number: 2794220

Department of Fair Trading

Class 2 Professional Engineer Registration number: PRE0001202

Appendix A

Car park design drawings

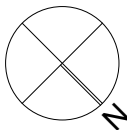


FOR REVIEW ONLY

ISSUE	DATE	PURPOSE OF ISSUE
A	09/06/21	AMENDMENT - BASEMENT
B	19/08/21	AMENDMENT - NEIGHBOURING BUILDING
C	14/10/22	CONSTRUCTION CERTIFICATE
D	16/02/23	SECTION 4.55

PROJECT
SECTION 4.55
PROJECT ADDRESS
37 Claremont Street CAMPSIE
CLIENT
UNITY CONSTRUCTIONS

STATUS
SUBMISSION
STAGE
REVIEW

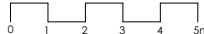


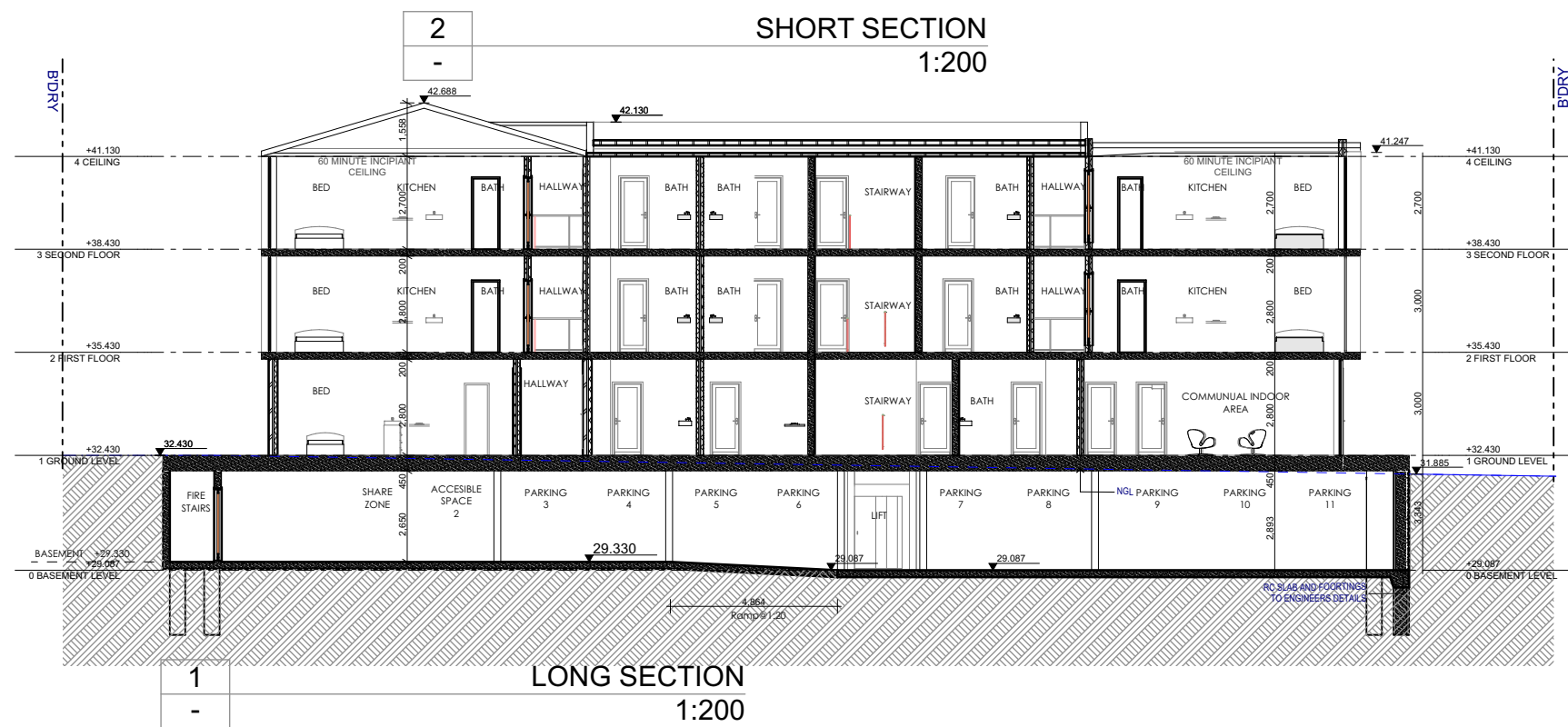
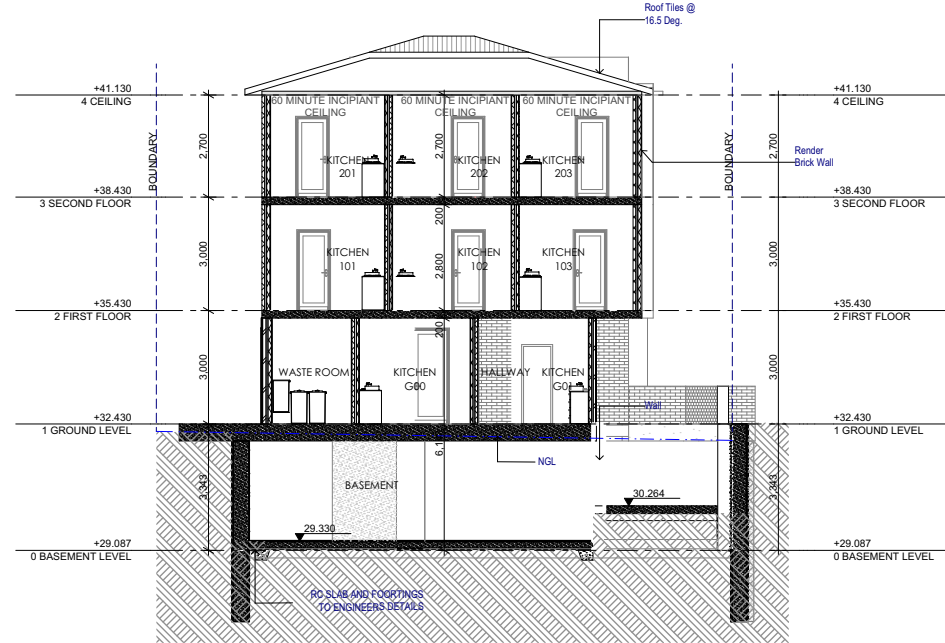
DRAWING NO.
A.03
DRAWN BY
WA
CHECKED BY
WA
DRAWING TITLE
BASEMENT FLOOR PLAN 1:200

ISSUE
D
SCALE
1:50@ A1
1:100@ A3

JOB NO.
PP-735

DATE
5/05/2023



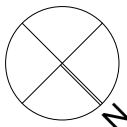


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ISSUE	DATE	PURPOSE OF ISSUE
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PROJECT
SECTION 4.55
PROJECT ADDRESS
37 Claremont Street CAMPSIE
CLIENT
UNITY CONSTRUCTIONS

STATUS
SUBMISSION
STAGE
REVIEW



DRAWING NO.
A.14

DRAWN BY
WA
DRAWING TITLE
SECTIONS

CHECKED BY
WA

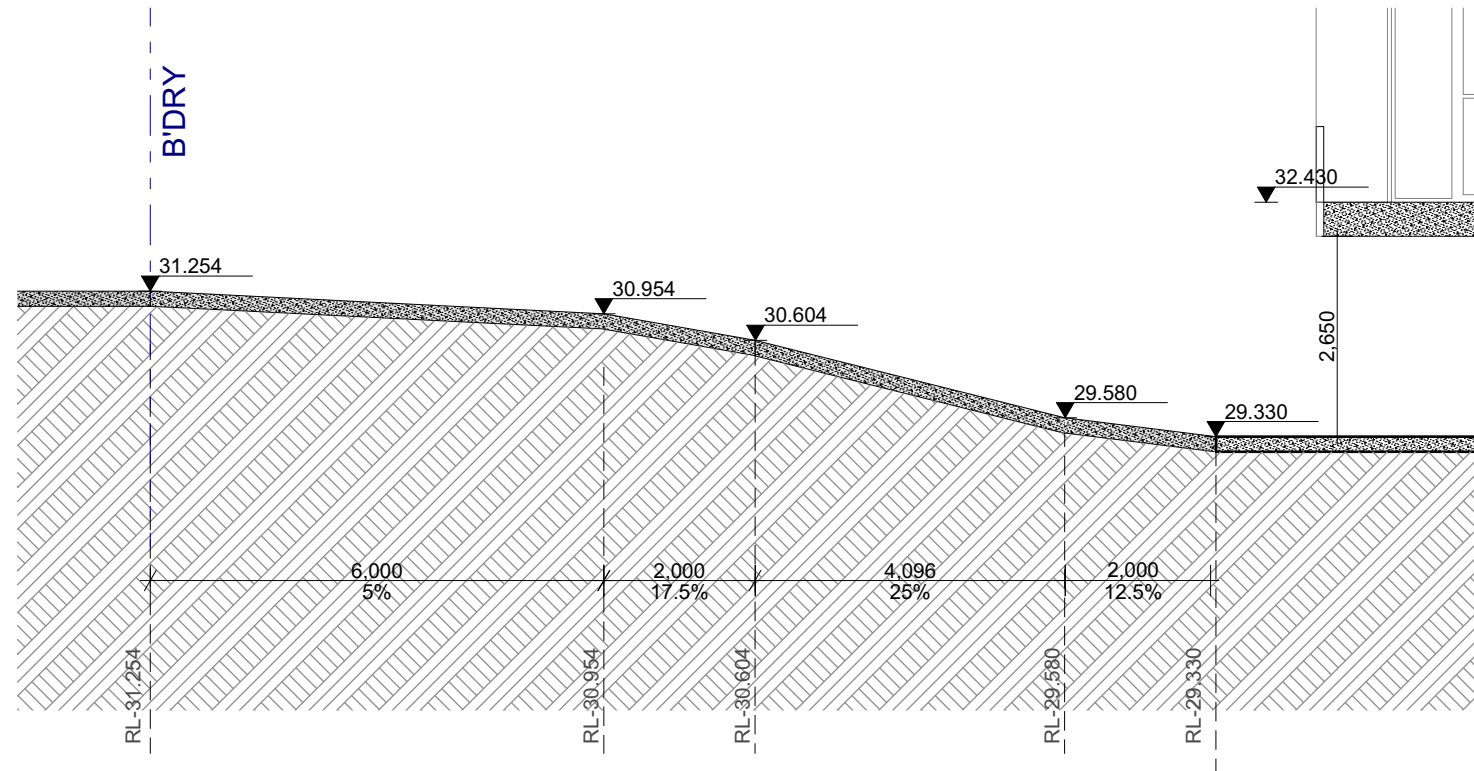
ISSUE
D

SCALE 1:50@ A1
1:100@ A3

JOB NO.
PP-735

DATE
5/05/2023





1
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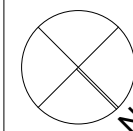
DRIVEWAY SECTION
1:100

FOR REVIEW ONLY

ISSUE	DATE	PURPOSE OF ISSUE
A	09/06/21	AMENDMENT - BASEMENT
B	19/08/21	AMENDMENT - NEIGHBOURING BUILDING
C	14/10/22	CONSTRUCTION CERTIFICATE
D	16/02/23	SECTION 4.55

PROJECT
SECTION 4.55
PROJECT ADDRESS
37 Claremont Street CAMPSIE
CLIENT
UNITY CONSTRUCTIONS

STATUS
SUBMISSION
STAGE
REVIEW



DRAWING NO.
A.15

DRAWN BY
WA
DRAWING TITLE
DRIVEWAY SECTION

CHECKED BY
WA

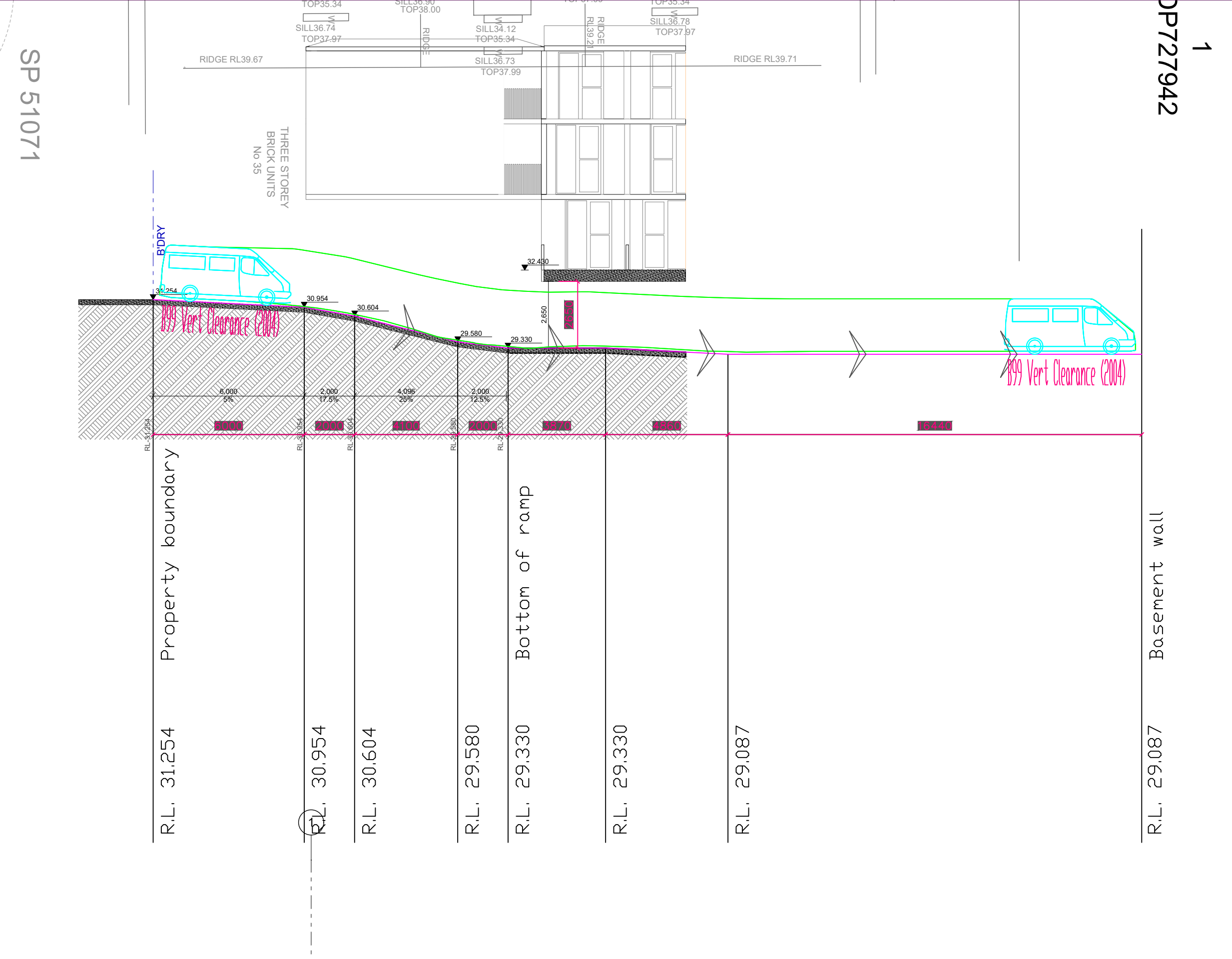
ISSUE
D
SCALE
1:50@ A1
1:100@ A3

JOB NO.
PP-735
DATE
5/05/2023



Appendix B

Swept path assessment



COMMENTS

A3

B99 Vert Clearance (2004)

Overall Length5.200m

Overall Width1.940m

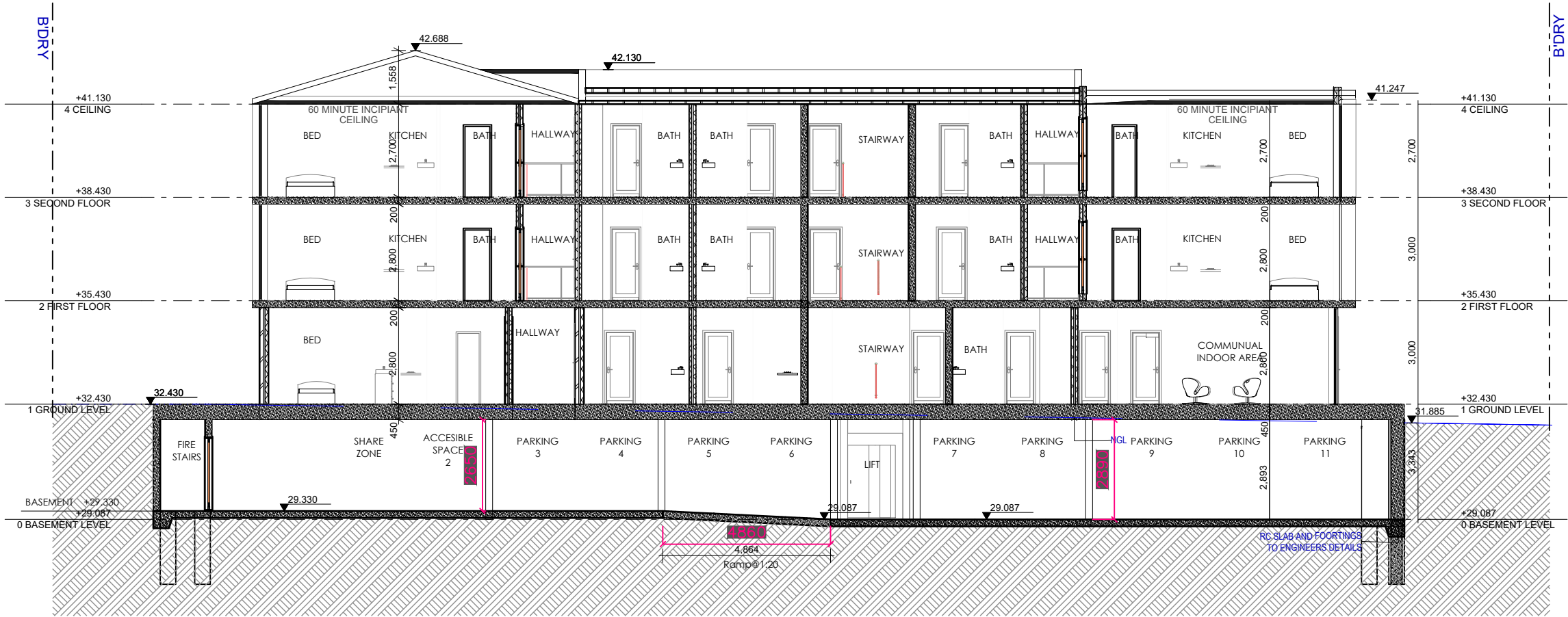
Overall Body Height2.200m

Min Body Ground Clearance0.120m

Track Width1.840m

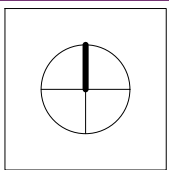
Lock-to-lock time4.00s

Curb to Curb Turning Radius8.000m



SYDNEY | Suite 01
Ground Floor
20 Chandos Street,
St Leonards NSW 2065
Phone # 02 9493 9500
www.emmconsulting.com.au

REV	DATE	COMMENT	DRAWN	REVIEWED	REV	DATE	COMMENT	DRAWN	REVIEWED
7	15/03/23	FOR INFORMATION	JM	AU					
6	24/02/23	FOR INFORMATION	JM	AU	13	12/05/23	FOR CC	JM	AU
5	23/02/23	FOR INFORMATION	JM	AU	12	09/05/23	FOR INFORMATION	JM	AU
4	30/11/22	FOR INFORMATION	JM	AU	11	05/05/23	FOR INFORMATION	JM	AU
3	09/06/21	FOR INFORMATION	EL	AU	10	05/05/23	FOR INFORMATION	JM	AU
2	09/06/21	FOR INFORMATION	EL	AU	9	04/05/23	FOR INFORMATION	JM	AU
1	29/03/21	FOR INFORMATION	EL	AU	8	26/04/23	FOR INFORMATION	JM	AU



PROJECT:
37 Claremont Street Campsie

DRAWING TITLE:
Vertical Clearance
Car parking spaces

CLIENT: Nuovo Design Studio Pty Ltd

DRG. #: EMM-005

PROJECT #: J210277

SCALE: 1:150

REV: 13