

LOWER BASEMENT CONCEPT

PREPARED BY
GEORGE KHALIL
 ACSES ENGINEERS

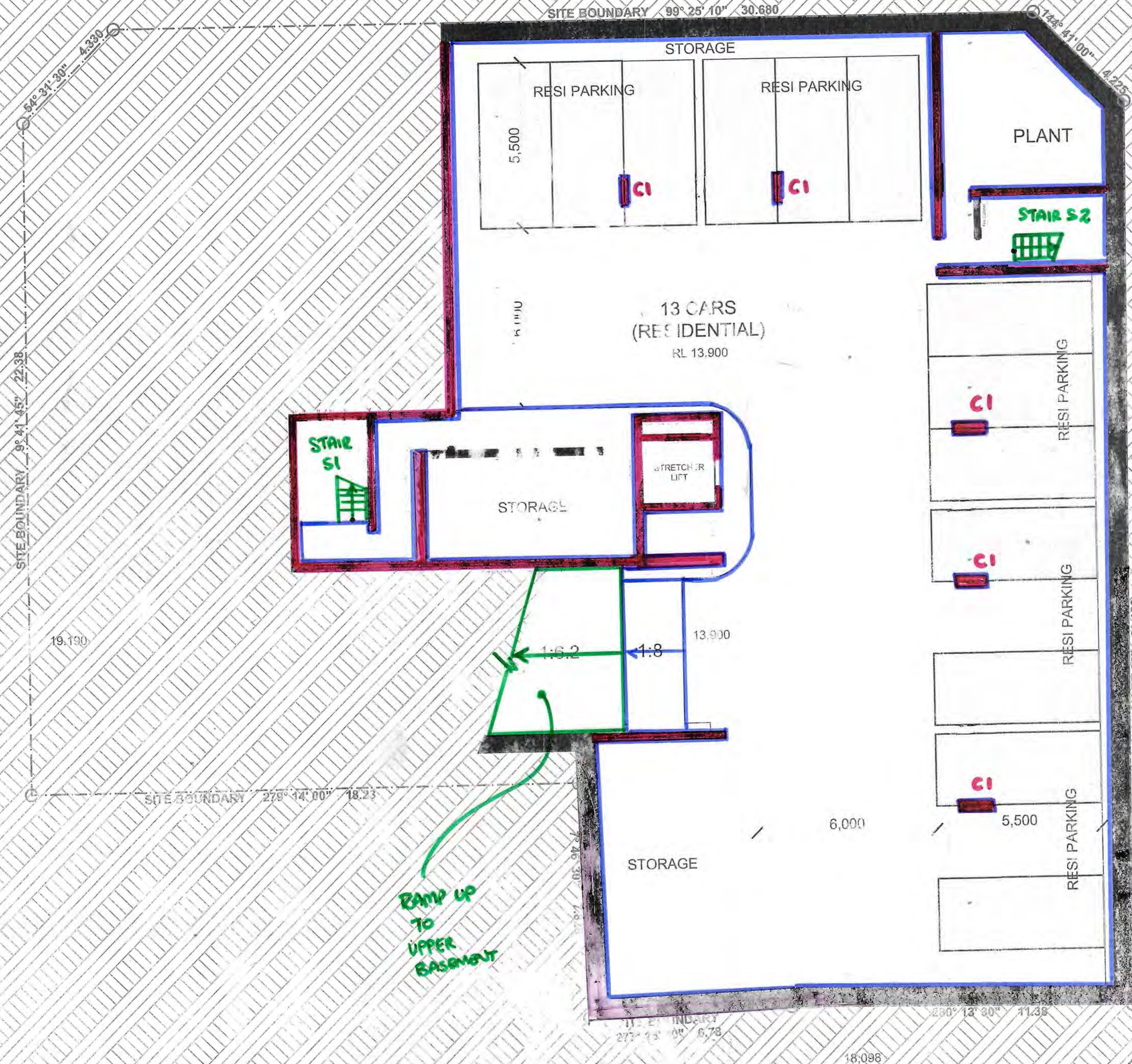


JOB NO: 130345
 DATE: 11/8/15

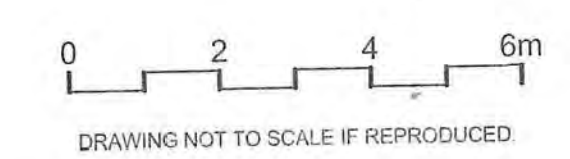
EVLEIGH STREET

WOODBURN STREET

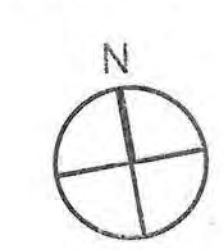
CLEVELAND STREET



BAMP UP TO UPPER BASEMENT



DRAWING NOT TO SCALE IF REPRODUCED



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 ABN 52 255 081 093
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PROJECT: PROPOSED MIXED USE MULTI UNIT RESIDENTIAL DEVELOPMENT
 175-177 CLEVELAND ST & 1-5 WOODBURN ST REDFERN
 DRAWING: LOWER BASEMENT FLOOR PLAN

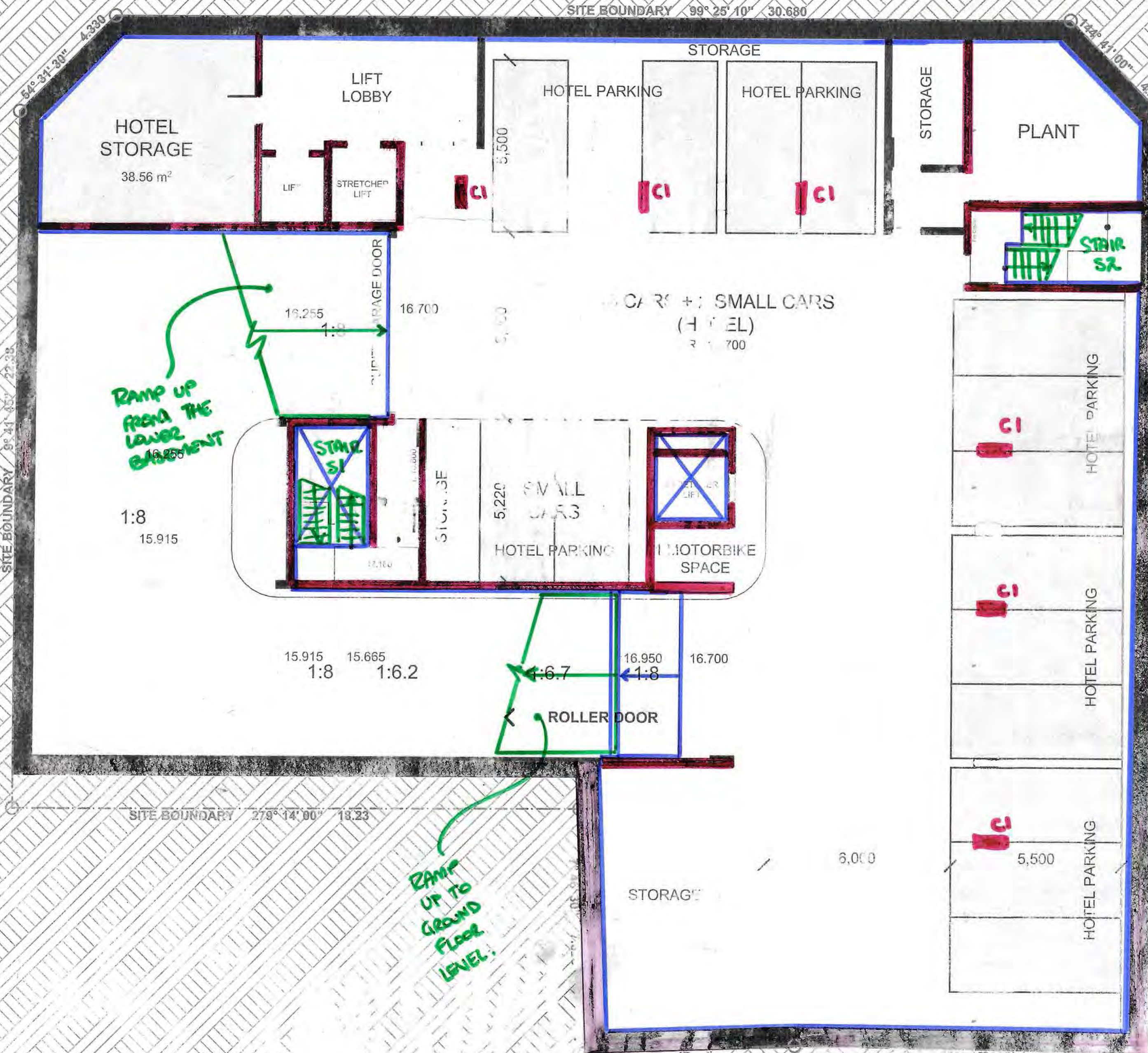
PROJECT NO: 2014067
 DRAWN BY: RM, YS
 SCALE: 1:200 @ A1
 DRAWING NO: REV:
 PLOTTED 30/07/2015
DA2000 D6

UPPER BASEMENT CONCEPT

PREPARED BY
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JOB NO: 120345
 DATE: 11/8/15



RAMP UP FROM THE LOWER BASEMENT

RAMP UP TO GROUND FLOOR LEVEL

PRELIMINARY



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PROJECT:
 PROPOSED MIXED USE MULTI UNIT
 RESIDENTIAL DEVELOPMENT
 175-177 CLEVELAND ST & 1-5
 WOODBURN ST REDFERN
 DRAWING:
 UPPER BASEMENT FLOOR PLAN

PROJECT NO: 2014067
 DRAWN BY: RM.YS
 SCALE: 1:200 @ A3
 DRAWING NO: REV:
 PLOTTED: 30/07/2015
DA2001 D6

0 2 4 6m
 DRAWING NOT TO SCALE IF REPRODUCED

GROUND / LEVEL 1 CONCEPT

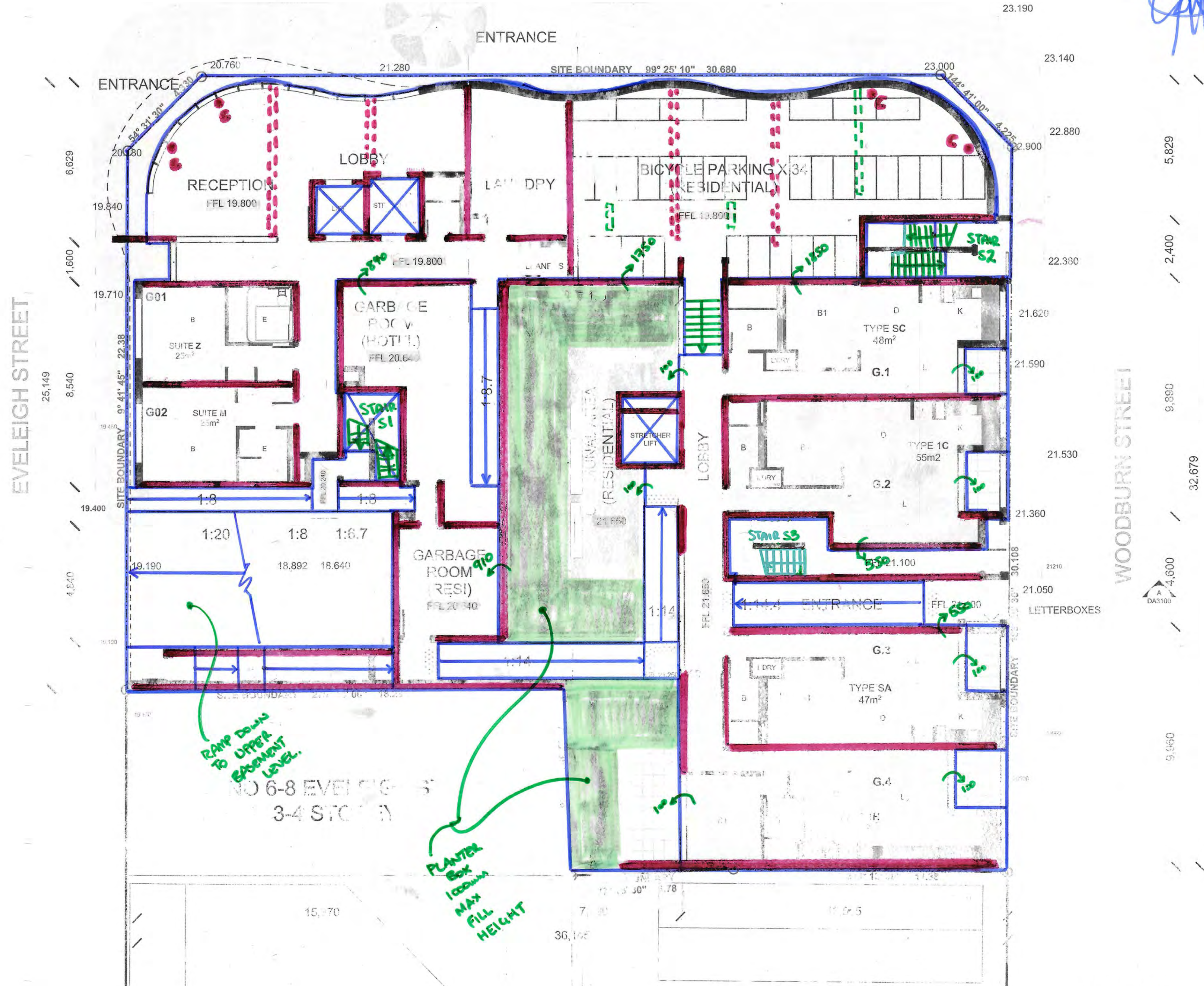
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 JOB NO: 120345
 DATE: 11/8/15

CLEVELAND STREET

EXISTING TREE

ENTRANCE



EVELEIGH STREET

WOODBURN STREET

NO 179
 CLEVELAND ST
 3 STOREY

NO 165-173
 CLEVELAND ST
 3 STOREY

NO 6-8 EVELEIGH ST
 3-4 STOREY

PRELIMINARY

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PROJECT: PROPOSED MIXED USE MULTI UNIT RESIDENTIAL DEVELOPMENT
 PROJECT NO: 2014067
 DRAWN BY: RM/YS
 SCALE: 1:200 @ A3
 DRAWING NO: REV:
 PLOTTED: 30/01/2015
 175-177 CLEVELAND ST & 1-5 WOODBURN ST REDFERN
 DRAWING: GROUND / LEVEL 1 FLOOR PLAN
 DA2002 D6

LEVEL 2 CONCEPT

PREPARED BY
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JOB NO: 120345
 DATE: 11/8/15



CLEVELAND STREET

EXISTING TREE

CONCRETE AWNING

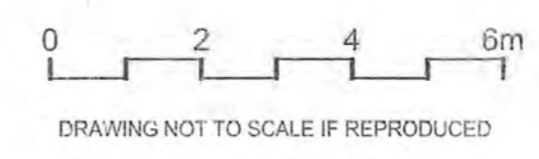
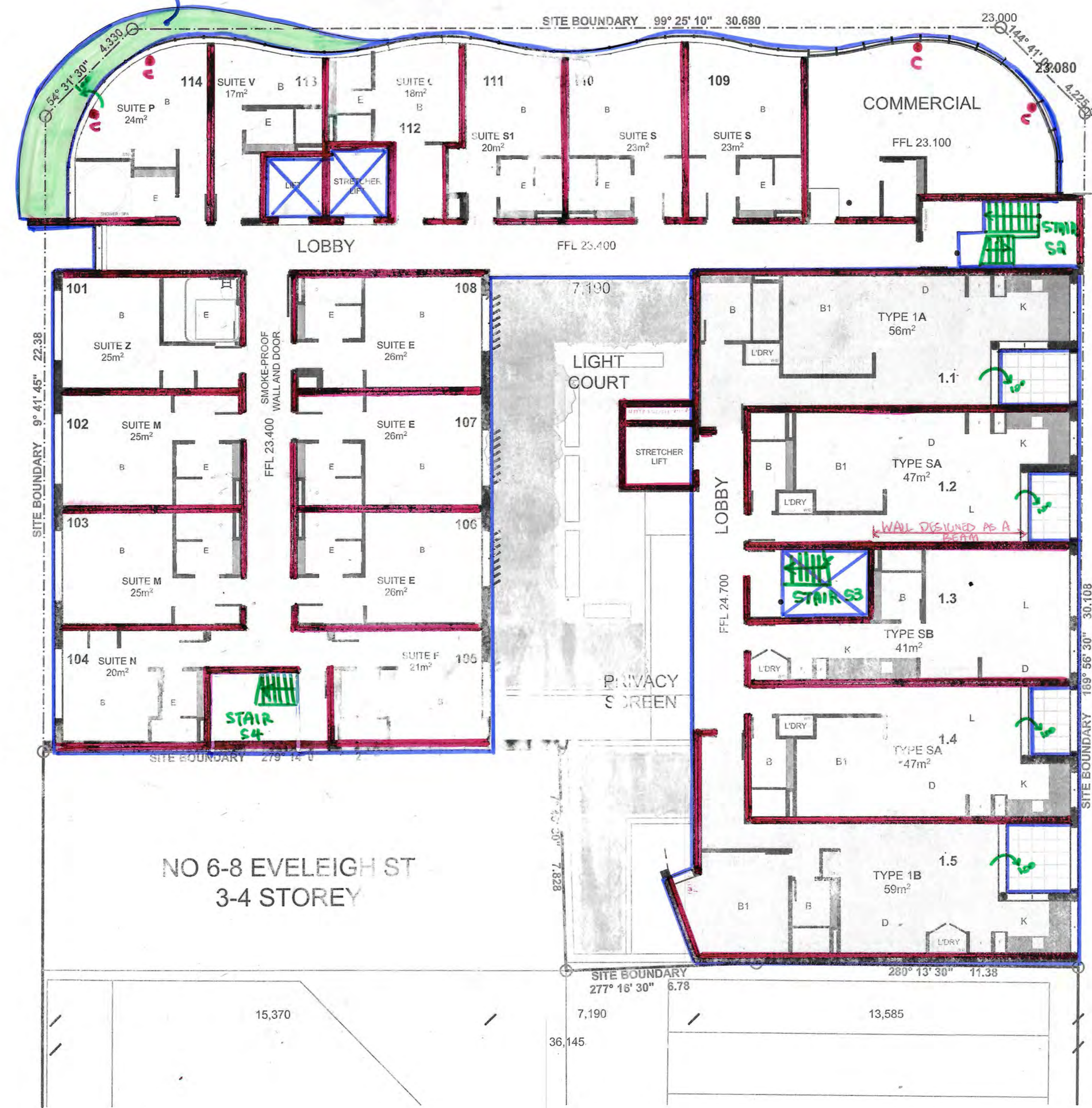
EVELEIGH STREET

WOODBURN STREET

NO 165-173
 CLEVELAND ST
 3 STOREY

NO 179
 CLEVELAND ST
 3 STOREY

NO 6-8 EVELEIGH ST
 3-4 STOREY



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PRELIMINARY

PROJECT: PROPOSED MIXED USE MULTI UNIT RESIDENTIAL DEVELOPMENT
 DRAWING: LEVEL 2 FLOOR PLAN

PROJECT NO: 2014067
 DRAWN BY: RM,YS
 SCALE: 1:200 @ A3
 DRAWING NO: REV:
 PLOTTED 30/07/2015

175-177 CLEVELAND ST & 1-5 WOODBURN ST REDFERN
 DA2003 D6



LEVEL 3 CONCEPT

PREPARED BY
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JOB NO: 120345
DATE: 11/8/15

CLEVELAND STREET

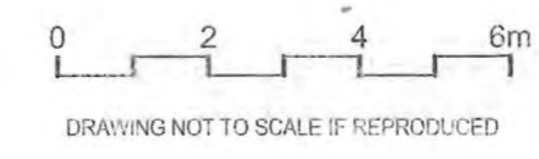
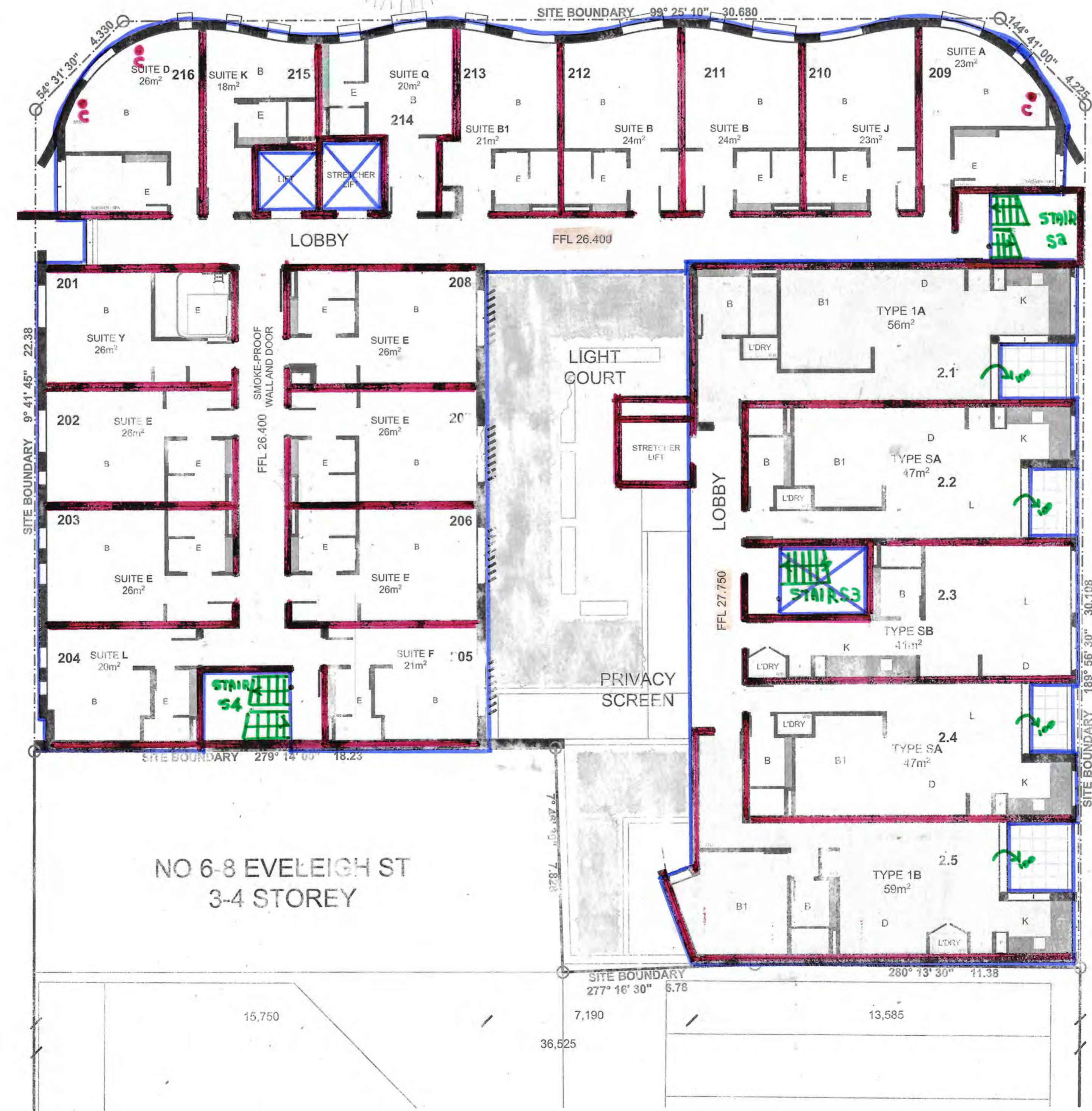
EVELEIGH STREET

WOODBURN STREET

NO 165-173
CLEVELAND ST
3 STOREY

NO 179
CLEVELAND ST
3 STOREY

NO 6-8 EVELEIGH ST
3-4 STOREY



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PROJECT: PROPOSED MIXED USE MULTI UNIT RESIDENTIAL DEVELOPMENT
175-177 CLEVELAND ST & 1-5 WOODBURN ST REDFERN
DRAWING: LEVEL 3 FLOOR PLAN

PROJECT NO: 2014067
DRAWN BY: RM.YS
SCALE: 1:200 @ A3
DRAWING NO: REV.
PLOTTED: 30/07/2015
DA2004 D6

LEVEL 4 CONCEPT

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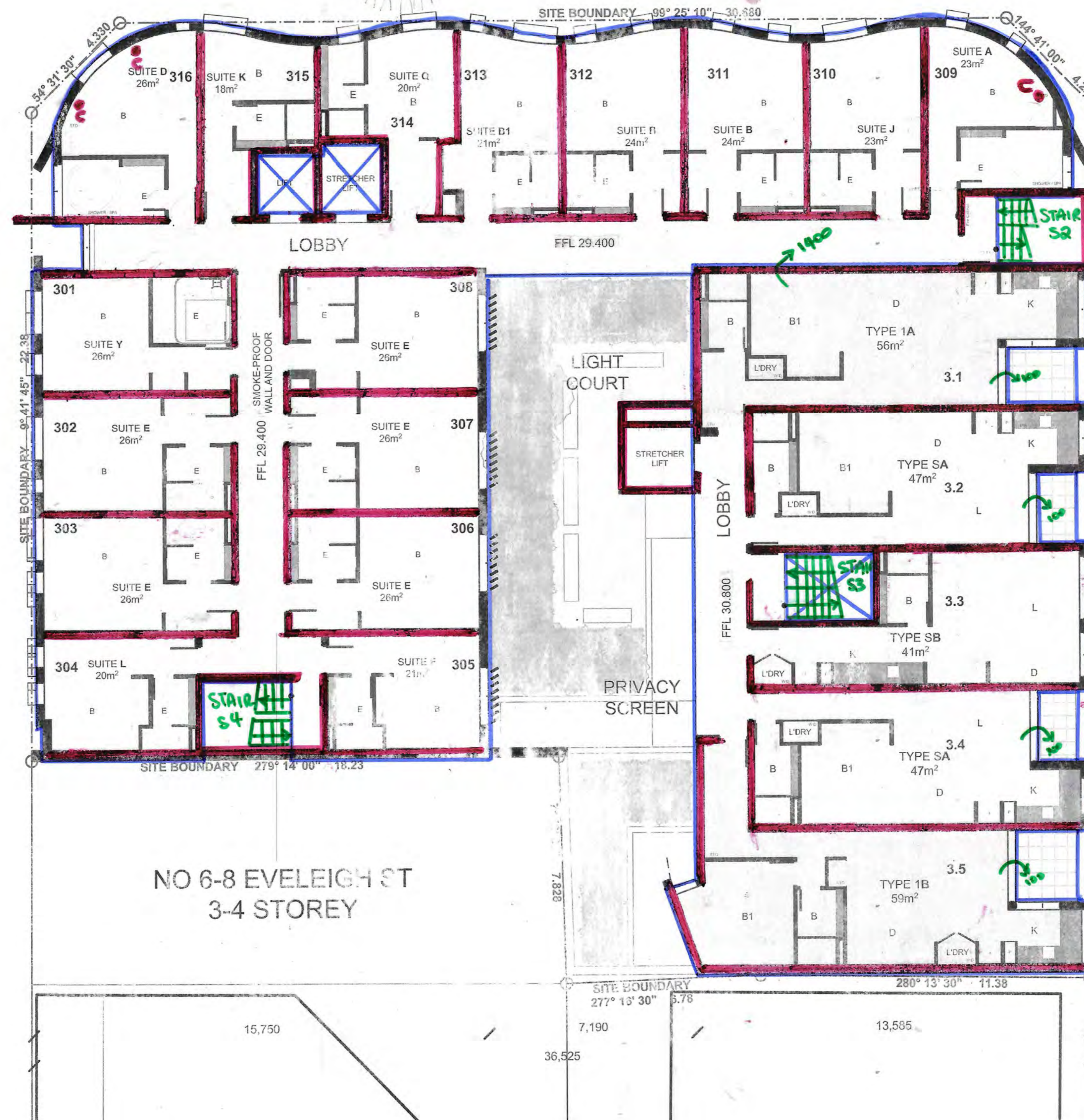


JOB NO: 120345

DATE: 11/8/15

CLEVELAND STREET

35,180



EVELEIGH STREET

25,379

16,920

DA3100

NO 165-173
CLEVELAND ST
3 STOREY

WOODBURN STREET

24,250

32,909

NO 179
CLEVELAND ST
3 STOREY

NO 6-8 EVELEIGH ST
3-4 STOREY

PRELIMINARY

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PROJECT:
PROPOSED MIXED USE MULTI UNIT
RESIDENTIAL DEVELOPMENT

175-177 CLEVELAND ST & 1-5
WOODBURN ST REDFERN
DRAWING:
LEVEL 4 FLOOR PLAN

PROJECT NO: 2014067
DRAWN BY: RM,YS
SCALE: 1:200 @ A3
DRAWING NO: REV:
PLOTTED: 30/07/2015

DA2005 D6

0 2 4 6m

DRAWING NOT TO SCALE IF REPRODUCED



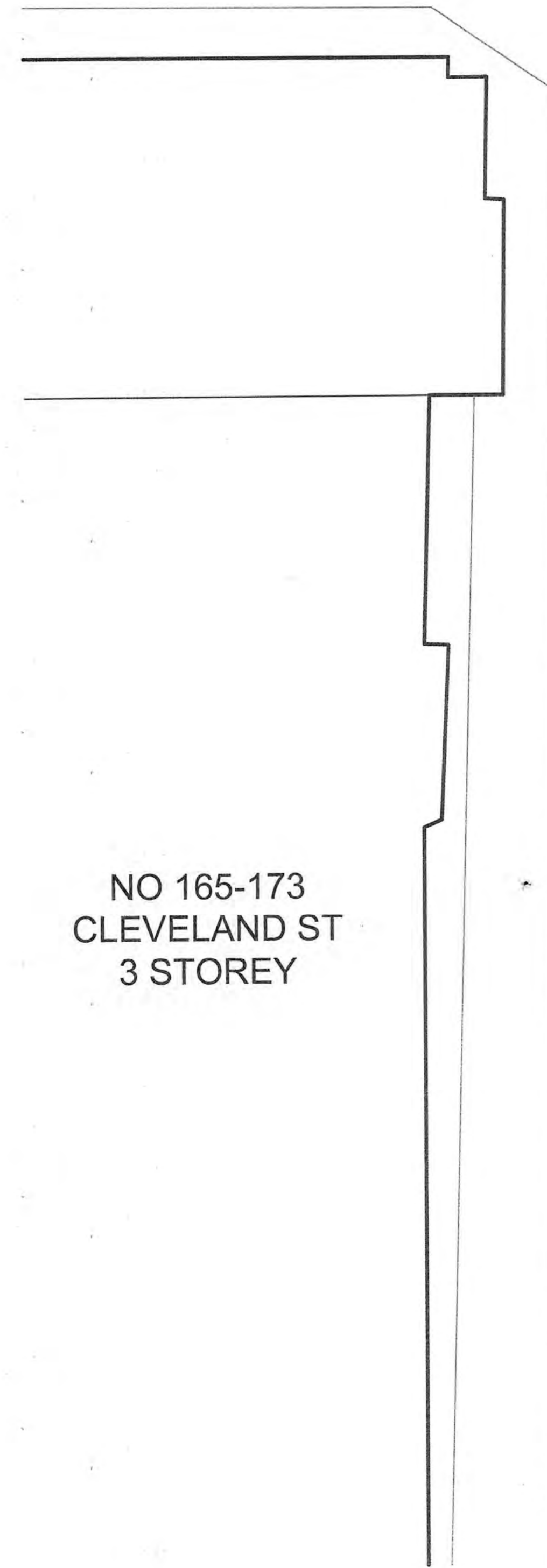
LEVEL 5 CONCEPT

PREPARED BY

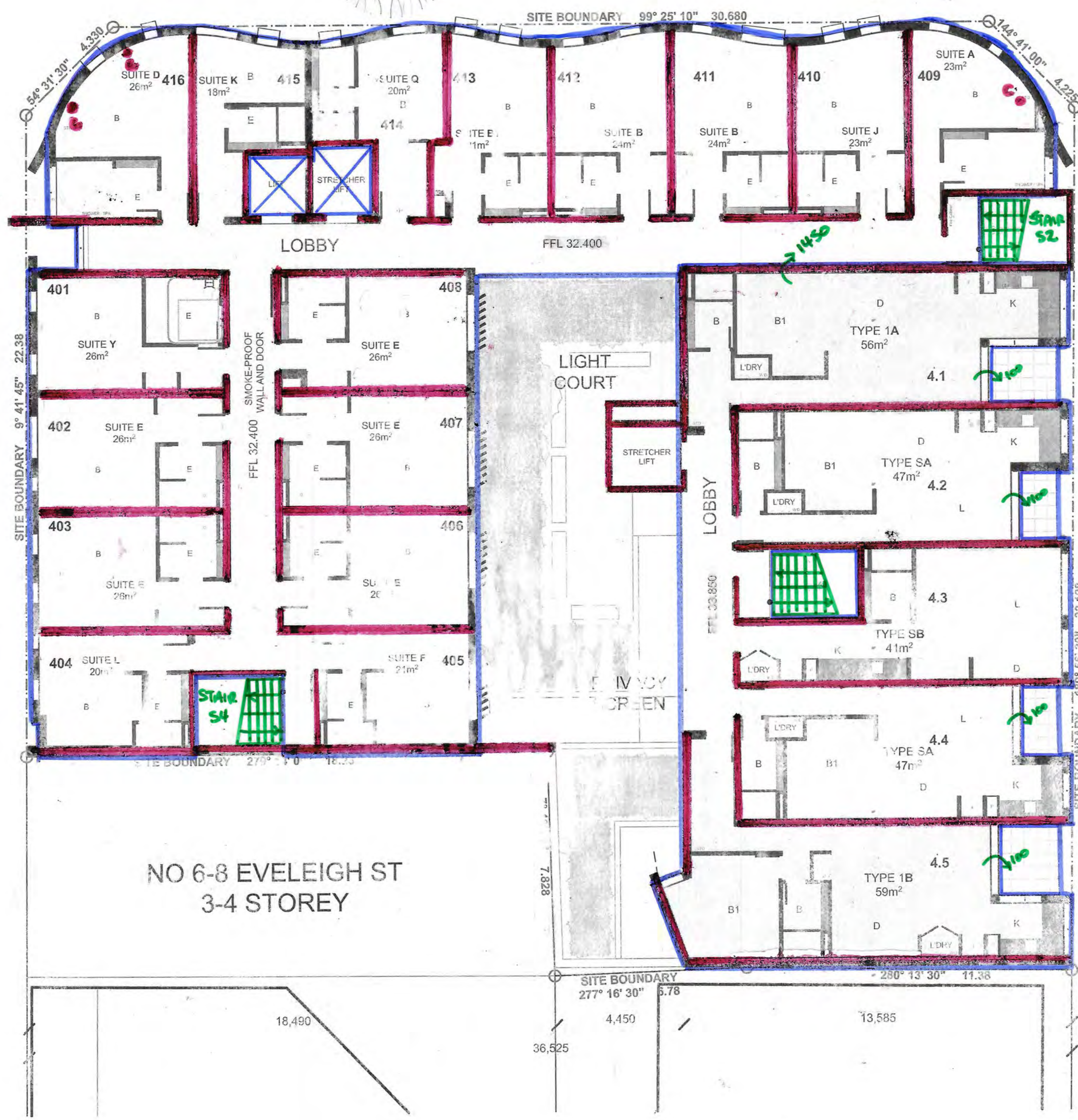
GEORGE KHAUL
ACES ENGINEERS



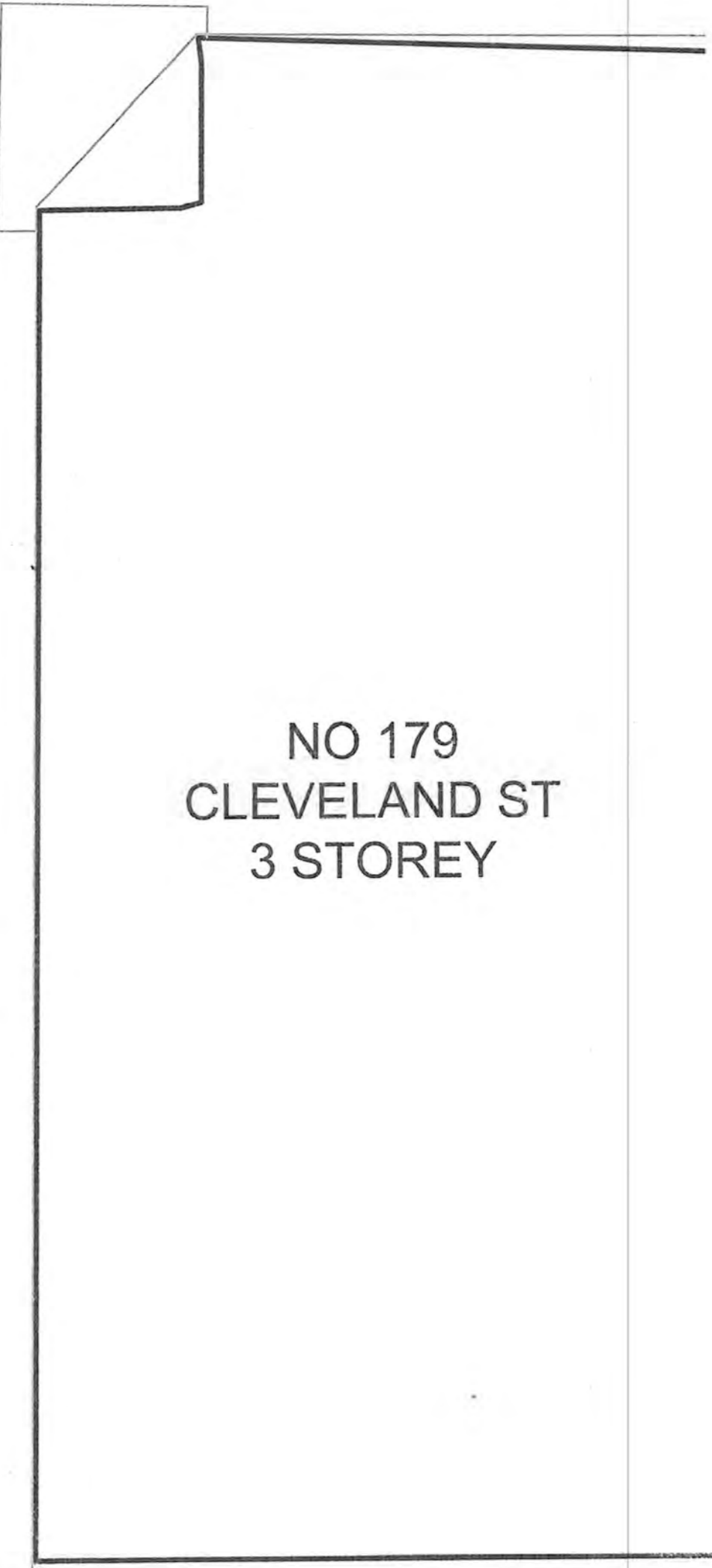
JOB NO: 120345
DATE: 11/8/15



NO 165-173
CLEVELAND ST
3 STOREY



NO 6-8 EVELEIGH ST
3-4 STOREY



NO 179
CLEVELAND ST
3 STOREY



PRELIMINARY

LEVEL 6 CONCEPT

PREPARED BY
GEORGE KHALIL
ACES ENGINEERS

 JOB NO: 120345
 DATE: 11/8/15

CLEVELAND STREET



NO 165-173
 CLEVELAND ST
 3 STOREY

NO 179
 CLEVELAND ST
 3 STOREY

NO 6-8 EVELEIGH ST
 3-4 STOREY

PLANTER
 Box
 600mm
 MAX
 FILL
 HEIGHT
 (*)

PRELIMINARY

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PROJECT: PROPOSED MIXED USE MULTI UNIT RESIDENTIAL DEVELOPMENT
 175-177 CLEVELAND ST & 1-5 WOODBURN ST REDFERN
 DRAWING: LEVEL 6 FLOOR PLAN

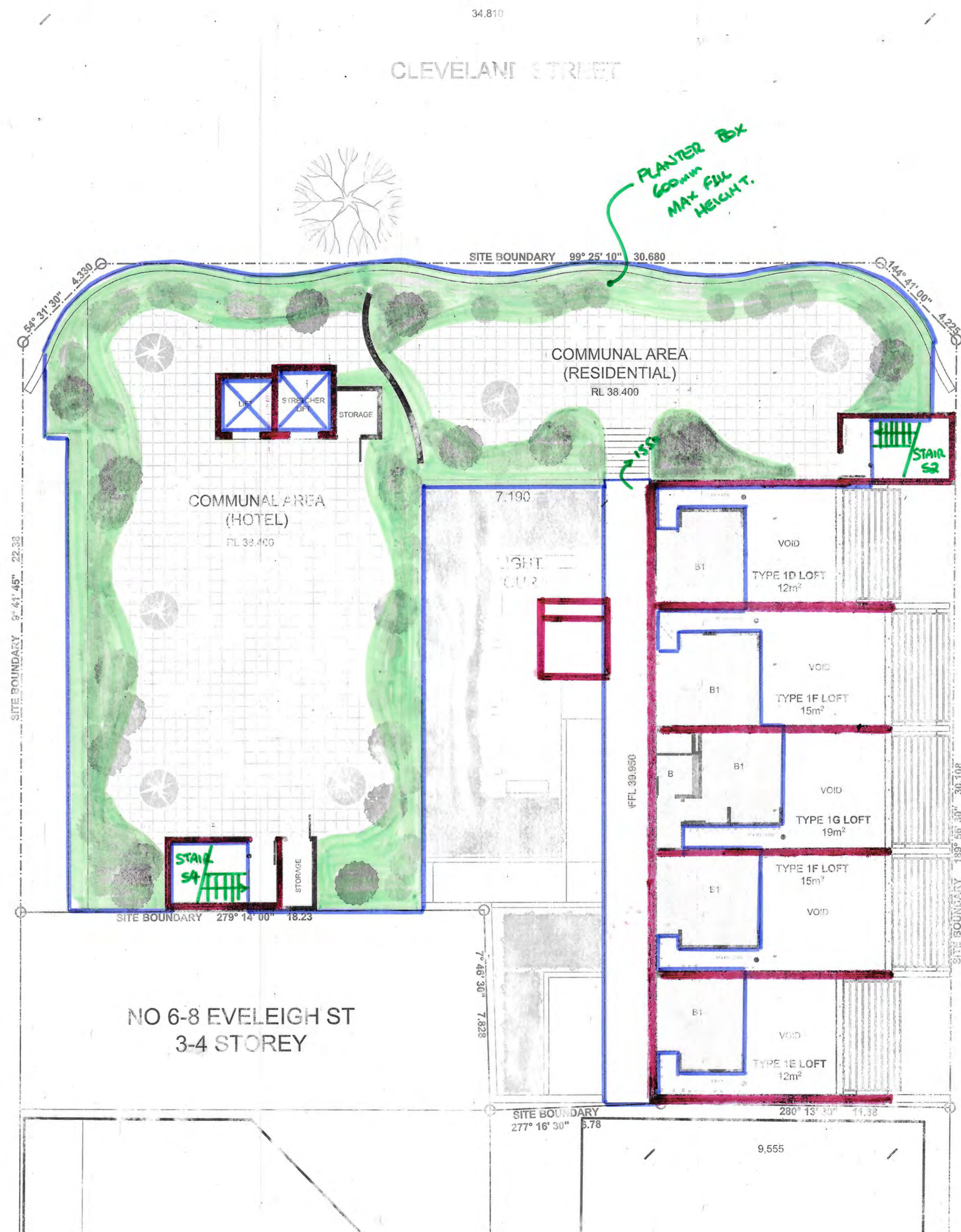
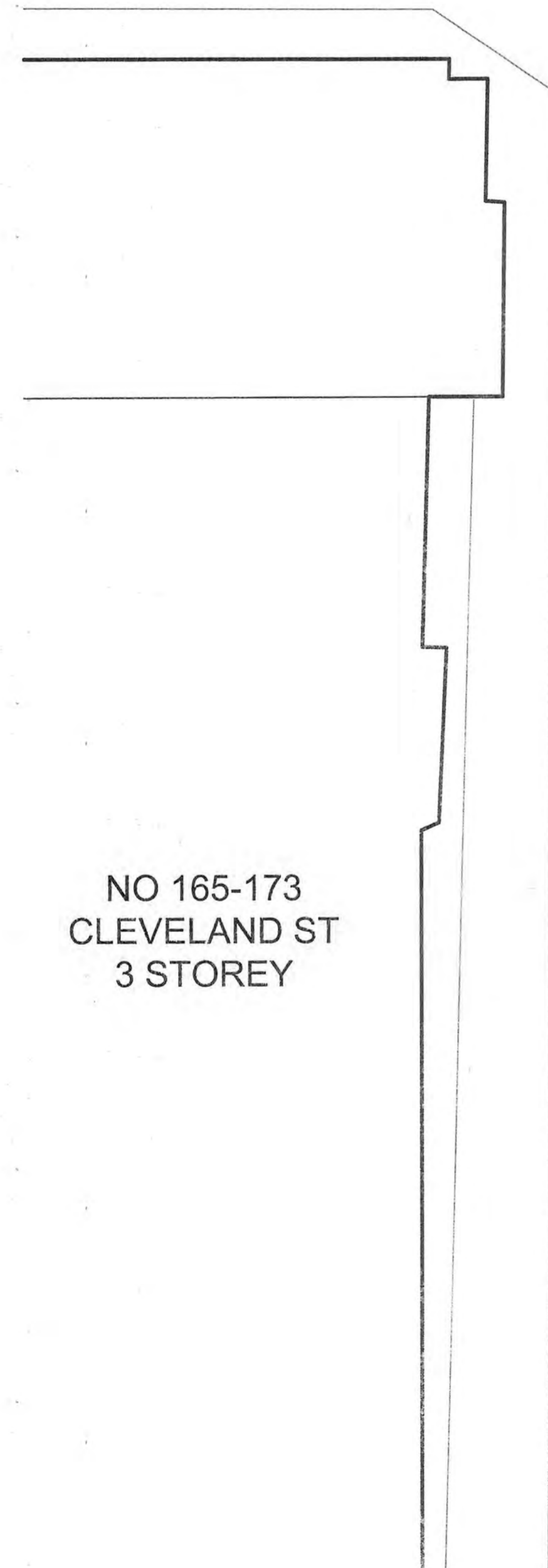
PROJECT NO: 2014067
 DRAWN BY: RM,YS
 SCALE: 1:200 @ A3
 DRAWING NO: REV:
 PLOTTED: 30/07/2015
DA2007 D6

LEVEL 7 CONCEPT

PREPARED BY
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JOB NO: 120345
 DATE: 11/8/15



PRELIMINARY

CALCULATIONS

Address: 175 - 177 CLEVELAND STREET REDFERN
Job Number: 100345 Date: 11/8/15 Sheet: 1 of 5
Subject: STRUCTURAL CONCEPT PLANS

LOWER BASEMENT CONCEPT

(SLAB)

- 100mm thick slab on ground → subject to geotech. assessment

(FOUNDATIONS)

- Our expectations are to encounter rock excavation.

(SHORING)

- May be required depending on Geotechnical assessment of the site.

↳ In any case, allowance for the shoring works can be as follows:

- 450 diam piles
- 150mm thick shotcrete infill walls.
- Allow 50mm tolerance + 450 pile + 50mm shot c. ≈ 550mm shoring zone off of the boundary.

(COLUMNS & WALLS)

- CI: 1000 x 300 CONC. COL.
- Walls marked in red are 200mm CONC. WALLS OR EQUIV.

e.g.: Dintel
AFS
Etc...

ALL SIZES, RATES & ESTIMATES
ARE SUBJECT TO ANALYSIS.

CALCULATIONS

Address: 175 - 177 CLEVELAND STREET REDFERN
Job Number: 120345 Date: 11/8/15 Sheet: 2 of 5
Subject: STRUCTURAL CONCEPT PLANS

UPPER BASEMENT CONCEPT

(SLABS)

- Post-tensioned slab solution for areas that are suspended.
- Allow the follow rates for quick calcs:
 - Slab thickness = 200mm
 - Drop panels over columns = 2400x2400x350mm
 - PT RATE $\approx 5 \text{ kg/m}^2$
 - REO RATE $\approx 35 \text{ kg/m}^2$

(COLUMN & WALLS)

- CI: 1000 x 300 CONC. COL'S.
- Walls marked Red are 200mm CONC. walls or equivalent
 - e.g. DINCEL
 - AFS
 - Etc...

ALL SIZES, RATES & ESTIMATES
ARE SUBJECT TO ANALYSIS

CALCULATIONS

Address: 175-177 CLEVELAND STREET REDFERN
Job Number: 120345 Date: 11/8/15 Sheet: 3 of 5
Subject: STRUCTURAL CONCEPT PLANS

GROUND / LEVEL 1 CONCEPT

(SLAB)

- MAIN TRANSFER SLAB
- POST-TENSIONED SLAB SOLUTION
- FOR THE PURPOSES OF QUICK CALCS, ALLOW THE FOLLOWING RATES:
 - SLAB THICKNESS $\approx 600\text{mm}$
 - PT RATE $\approx 12.5\text{kg/m}^2$
 - RED RATE $\approx 80\text{kg/m}^3$

(COLUMNS & WALLS)

- THE CURRENT CONCEPT HAS BEEN SHOWN AS A LOAD BEARING WALL SOLUTION. HOWEVER, THE CONCEPT CAN BE EASILY INTERCHANGED WITH A COLUMN/SLAB/COLUMN/SLAB(ETC) CONCEPT BY LOCATING COLUMNS AT LOCATIONS WITHIN THE WALLS WE HAVE MARKED IN RED.
 - ↳ In short, the walls marked red are interchangeable with columns & light weight infill if the builder prefers that construction technique.
- Walls shown marked in red are load bearing, don't need to be more than 200mm wide and can be any of the options listed below:
 - Pre-cast panels
 - Dintel
 - AFS
 - etc...

CALCULATIONS

Address: 175-177 CLEVELAND STREET REDFERN
Job Number: 120345 Date: 11/8/15 Sheet: 4 of 5
Subject: STRUCTURAL CONCEPT PLAN

GROUND / LEVEL 1 CONCEPT (CONTINUED)

- Walls shown red dashed are Level 2 walls from above.
↳ To avoid transfer, can the architect accommodate a support on the Level 1 slab or should we design the Level 2 slab to transfer the load?
- Walls shown dashed in green are Upper Basement load bearing elements. These have been shown to indicate where the supports are beneath the Level 1 slab to avoid transfer.
- Columns marked 'C' are indicative and require the architect's input. These columns are located behind the glass frame and would be a minimum 450mm diam.

ALL SIZES RATES & ESTIMATES
ARE SUBJECT TO ANALYSIS

CALCULATIONS

Address: 175 - 177 CLEVELAND STREET REDFERN
Job Number: 120345 Date: 11/8/15 Sheet: 5 of 5
Subject: STRUCTURAL CONCEPT PLAN

LEVEL 2 TO LEVEL 6 CONCEPT

(SLAB)

- These levels are conventionally reinforced
- Two options - can be 150mm with S192 mesh + extras (T≠B)
 ↳ (ONLY IF WALL OPTION CHOSEN)
 ↳ However this won't comply for acoustics
- can be 200mm with N12-250 (T≠B) + extras
 ↳ this complies for both fire & acoustics.

(WALLS & COLUMNS)

- See the Ground / level 1 comments.

LEVEL 7 CONCEPT

(SLAB)

- Conventionally reinforced slab solution.
- Apply the following rates for quick calcs:
 - Slab thickness = 200mm
 - RED RATE: N12-150 T≠B (High Degree Crack Control)

ALL SIZES, RATES & ESTIMATES
ARE SUBJECT TO ANALYSIS