1. Results

City of Port Phillip
Advertised Document
No. of Pages: 11

This report provides a comparison of internal daylight levels within all living/kitchen areas and bedrooms on level 1 & 2 as well as Apt 406 on Level 4 within the proposed mixed-use development at 8 Louise St, Melbourne.

The daylight assessment set out in this report is based on:

- Architectural drawings issued by Cera Stribley Pty Ltd on the 3rd of August 2021.

Results of daylight assessment are based on the following best-practice benchmark:

BESS

The BESS tool sets the following minimum performance standards for internal daylight within habitable rooms of residential developments:

- At least 80% of dwellings achieve a daylight factor greater than 1% to 90% of the floor area of each living area, including kitchens;
- At least 80% of dwellings achieve a daylight factor greater than 0.5% to 90% of the floor area in all bedrooms.

Living/Kitchen Areas:

Room	Level	DF % > 1.0
Apt 101	Level 1	87.2
Apt 102	Level 1	66.0
Apt 103	Level 1	57.5
Apt 104	Level 1	99.4
Apt 105	Level 1	66.2
Apt 106	Level 1	68.6
Apt 107	Level 1	100
Apt 108	Level 1	100
Apt 201	Level 2	100
Apt 202	Level 2	67.9
Apt 203	Level 2	73.5
Apt 204	Level 2	100
Apt 205	Level 2	100
Apt 206	Level 2	53.7
Apt 207	Level 2	100

©Ark Resources
PORT PHILLIP PLANNING DEPARTMENT
Date Received: 20/08/2021

Room	Level	DF % > 1.0
Apt 208	Level 2	100
Apt 406	Level 4	60.6

Table 1: Living/Kitchen Daylight Factor Results

Bedrooms:

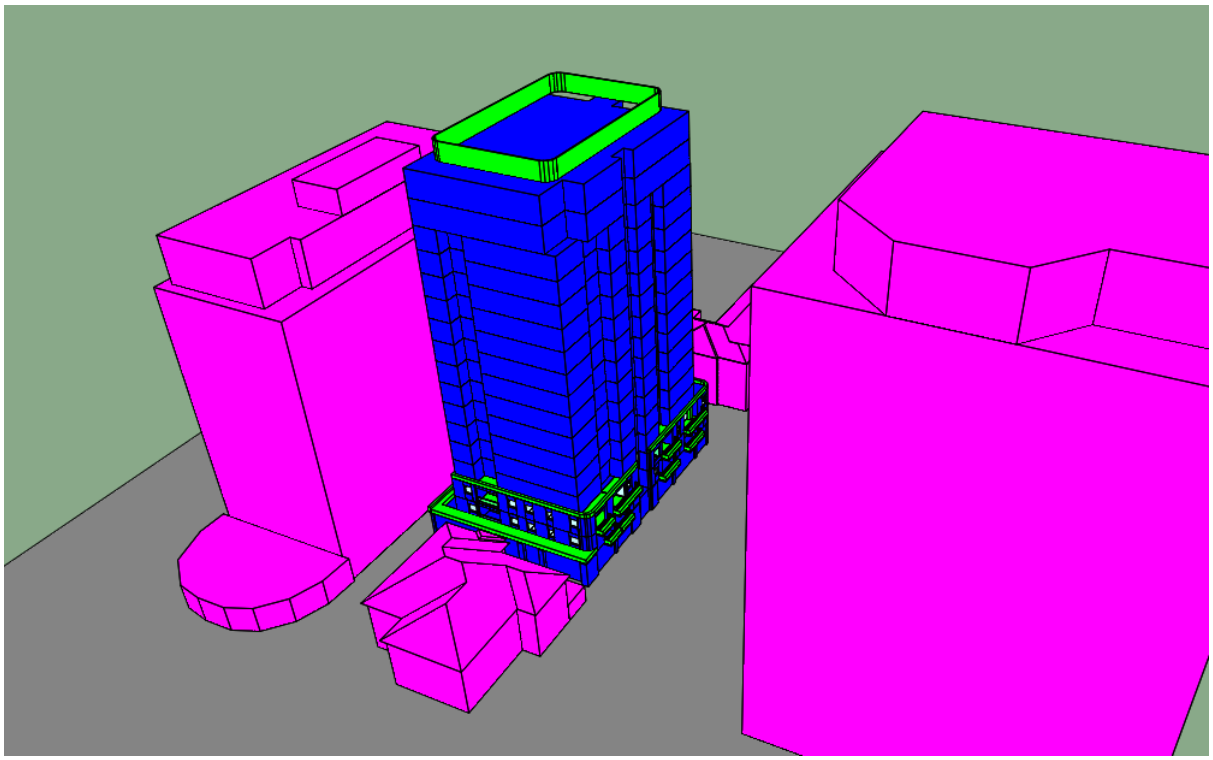
Room	Level	DF % > 0.5
Apt 101 Bed 1	Level 1	100
Apt 101 Bed 2	Level 1	100
Apt 102 Bed 1	Level 1	100
Apt 102 Bed 2	Level 1	100
Apt 103 Bed 1	Level 1	94.0
Apt 104 Bed 1	Level 1	100
Apt 104 Bed 2	Level 1	100
Apt 105 Bed 1	Level 1	100
Apt 105 Bed 2	Level 1	100
Apt 106 Bed 1	Level 1	63.4
Apt 107 Bed 1	Level 1	68.1
Apt 107 Bed 2	Level 1	100
Apt 108 Bed 1	Level 1	100
Apt 108 Bed 2	Level 1	100
Apt 201 Bed 1	Level 2	100
Apt 201 Bed 2	Level 2	100
Apt 201 Bed 3	Level 2	100
Apt 202 Bed 1	Level 2	100
Apt 202 Bed 2	Level 2	96.0
Apt 203 Bed 1	Level 2	100
Apt 203 Bed 2	Level 2	100
Apt 204 Bed 1	Level 2	100
Apt 204 Bed 2	Level 2	100
Apt 205 Bed 1	Level 2	100
Apt 205 Bed 2	Level 2	100

Room	Level	DF % > 0.5
Apt 206 Bed 1	Level 2	24.9
Apt 207 Bed 1	Level 2	65.6
Apt 207 Bed 2	Level 2	100
Apt 208 Bed 1	Level 2	100
Apt 208 Bed 2	Level 2	100
Apt 406 Bed 1	Level 4	97.6

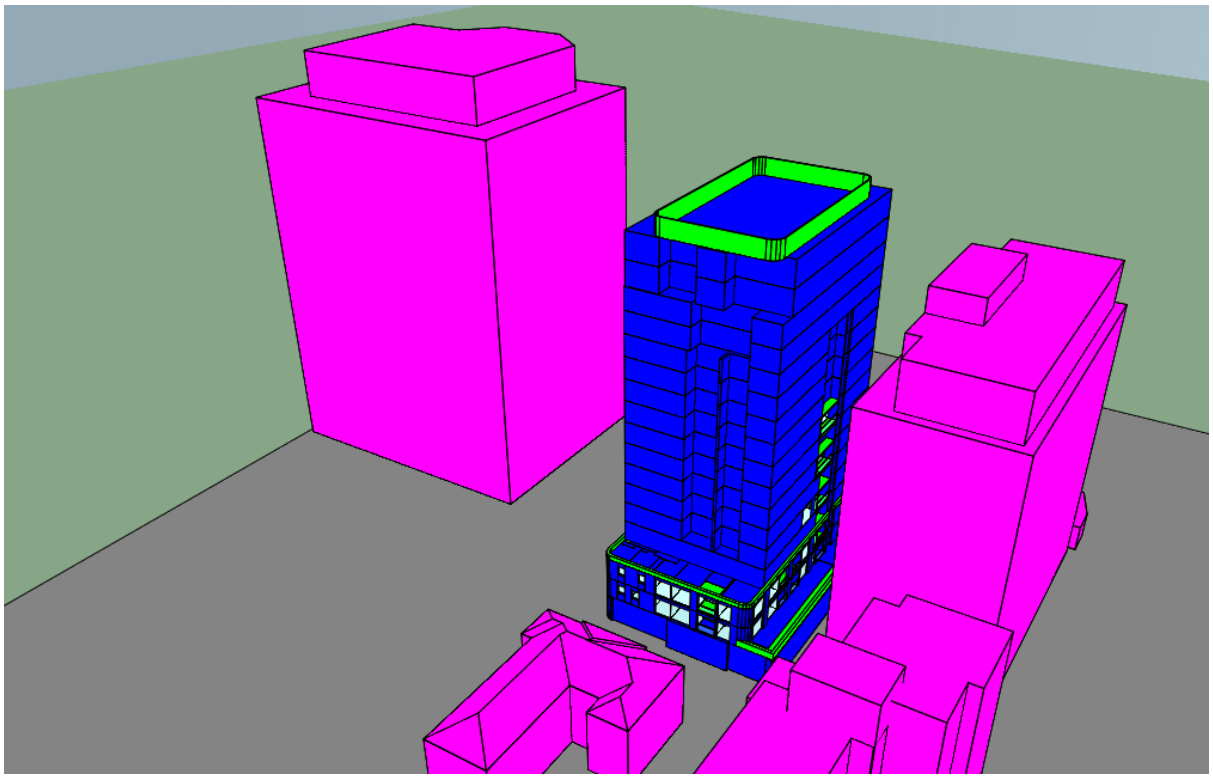
Table 2: Ground Floor - Level 3 Bedroom Daylight Factor Results

 ©Ark Resources

2. Model Images

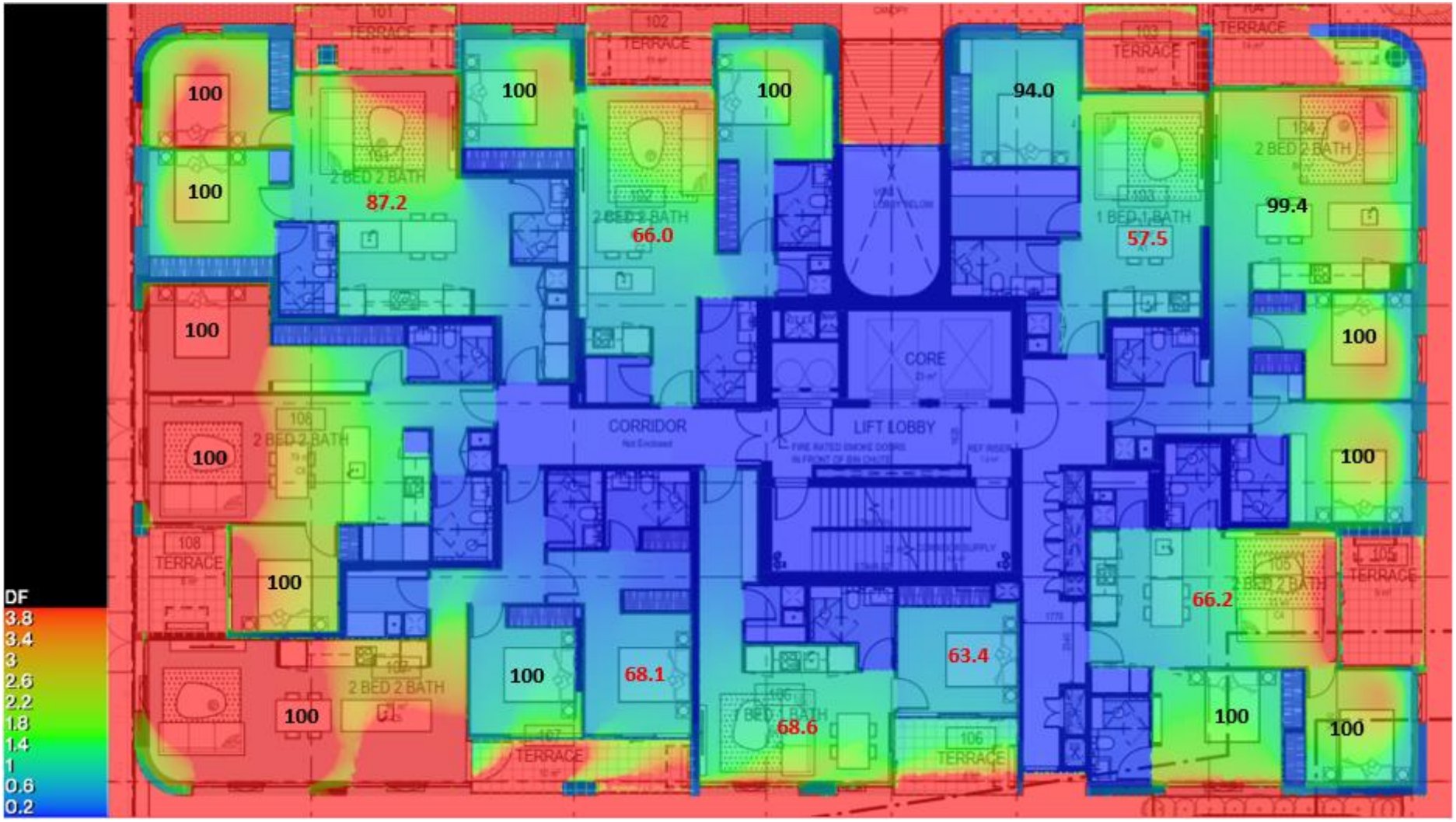


IESVE Model view from North-East



IESVE Model view from South-West

3. Daylight Contour Plots



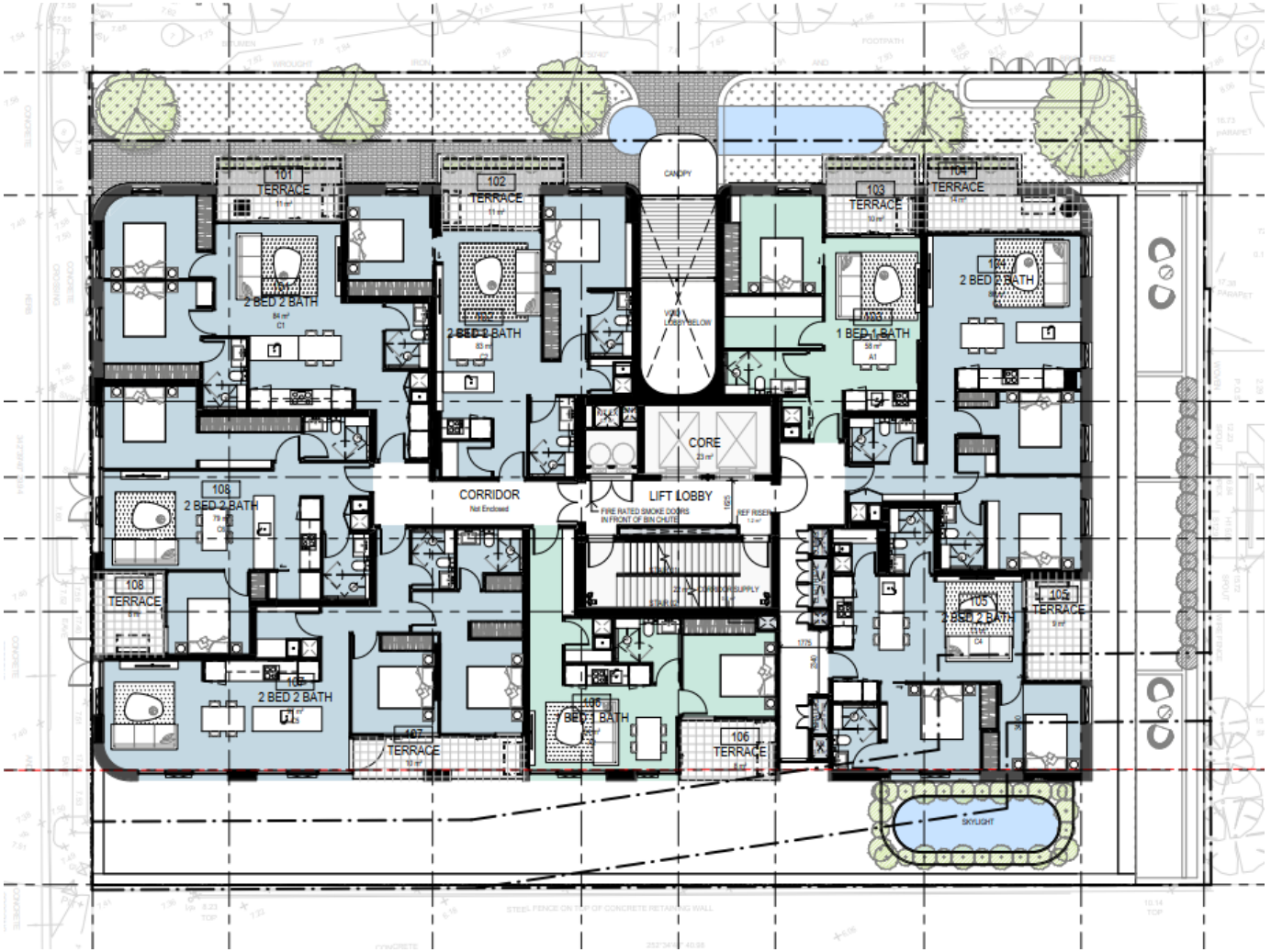
Level 1 Daylight Contour Plot

Level 2 Daylight Contour Plot

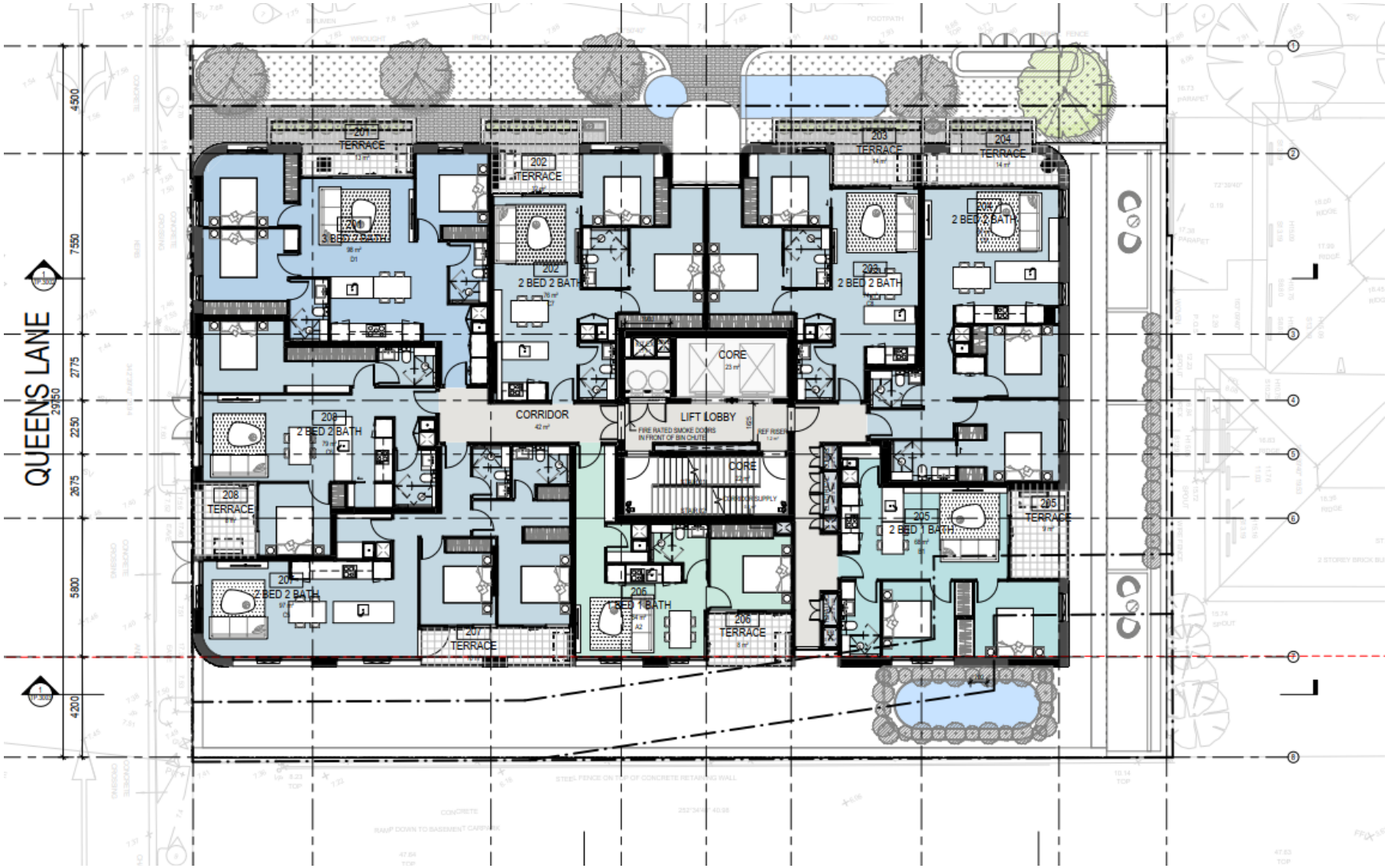
Level 4 Apt 406 Daylight Contour Plot

 ©Ark Resources

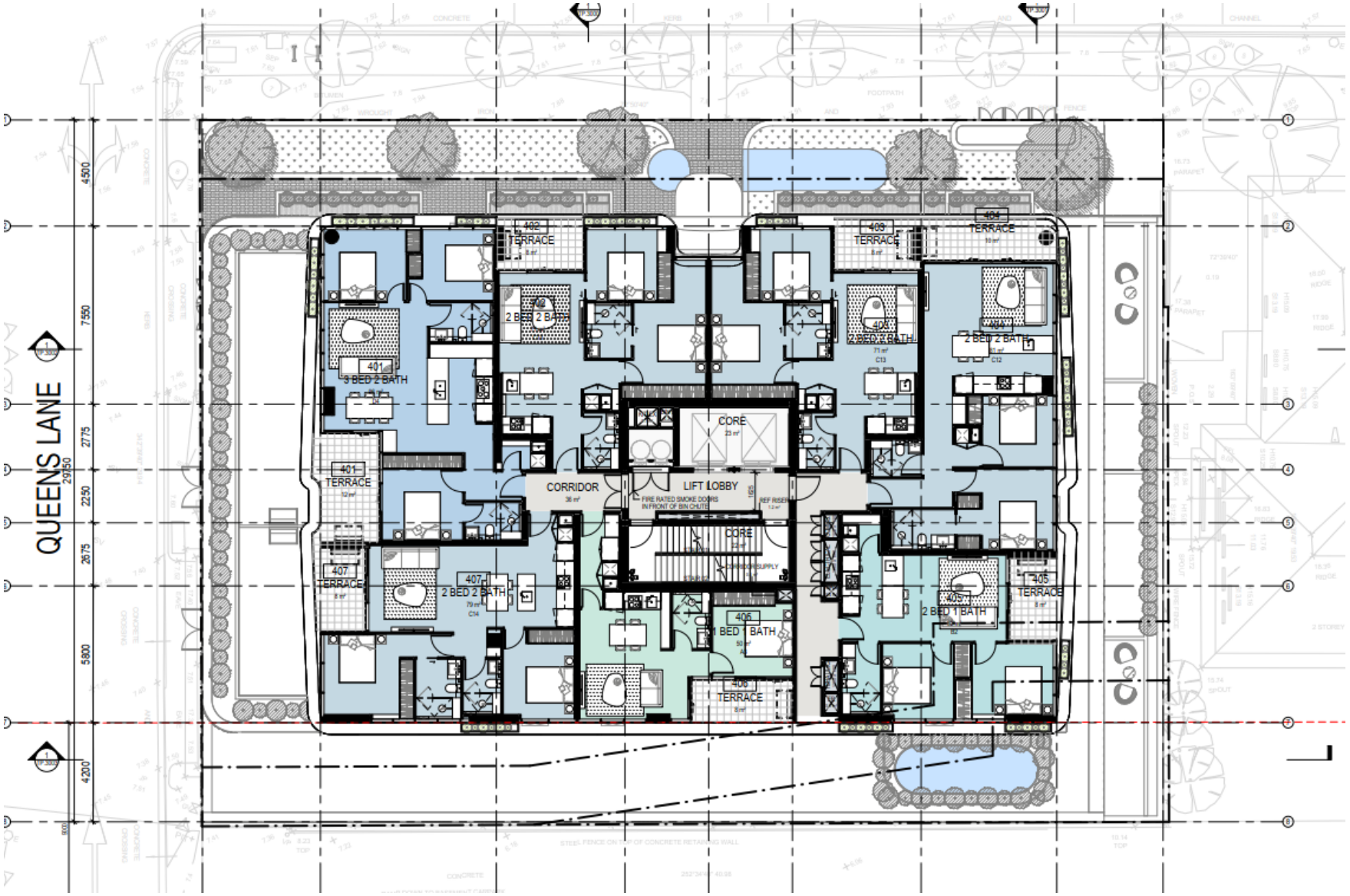
4. Floor Plan



Level 1 Floor Plan



Level 2 Floor Plan



Level 4-7 Floor Plan

5. Assumptions

The following assumptions have been made for the Visible Light Transmittance (VLT) values for all glazing applicable to this analysis:

ASSUMED GLAZING VISUAL LIGHT TRANSMITTANCE

Glazing Type	Visible Light Transmittance (VLT)
	%
External Glazing (GL01) – Clear, Double Glazing	70
Balustrades (GL02) – Clear, Single Glazing	70

ASSUMED SURFACE REFLECTANCES

Construction Element	Reflectance (%)	Description
Floors	30	Assumes a light-coloured carpet/timber
Internal Walls	94	Dulux Vivid White™ paint
Ceilings	94	Dulux Vivid White™ paint
External Walls 1	30	Red Brick Cladding (BR01)
Internal Balcony Walls	70	White finish
Internal Balcony Floor	40	Light-Grey paver
External Ground	15	Asphalt
Adjacent Buildings 1	35	Mid-Grey precast concrete
Adjacent Buildings 2	70	White precast concrete
Adjacent Buildings 3	50	Cream finish
Adjacent Buildings 4	30	Red brick
Adjacent Buildings 5	35	Average of white precast concrete & glazing
Planters	50	Light-Grey concrete (CN02)