Henry J Lyons

SANDYFORD CENTRAL

Strategic Housing Development

SANDYFORD GP LIMITED

HJL Response to An Bord Pleanála's Inspector's Report (20.09.2019)



່ າry J Lyons

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INTRODUCTION

This report was compiled by Henry J Lyons on behalf of Sandyford GP Limited acting in its capacity as general partner for the Sandyford Central Partnership (the Applicant) dealing specifically with the architectural aspect of An Bord Pleanála's 'Notice of Pre-Application Consultation Opinion' dated 20th September 2019 following a Section 5 Pre-Application Consultation meeting and should be read in conjunction with all documents submitted with the Applicant's response.

Sandyford GP Limited (acting in its capacity as general partner for the Sandyford Central Partnership) intend to apply to An Bord Pleanála for permission for a strategic housing development at a 1.54 ha site at the former Aldi Site, Carmanhall Road, Sandyford Business District, Dublin 18.

The development, which will have a Cross Floor Area of 49,342 sqm will principally consist of: the demolition of the existing structures on site and the provision of a Build-to-Rent residential development comprising 564 No. apartments (46 No. studio apartments, 205 No. one bed apartments, 295 No. two bed apartments and 18 No. three bed apartments) in 6 No. blocks as follows: Block A (144 No. apartments) is part 10 to part 11 No. storeys over basement; Block B (68 No. apartments) is 8 No. storeys over basement; Block C (33 No. apartments) is 5 No. storeys over lower ground; Block D (103 No. apartments) is part 16 to part 17 No. storeys over lower ground; Block E (48 No. apartments) is 10 No. storeys over semi-basement; and Block F (168 No. apartments) is 14 No. storeys over semi basement.

The development provides resident amenity spaces (1,095 sqm) in Blocks A, C and D including concierge, gymnasium, lounges, games room and a panoramic function room at Roof Level of Block D; a crèche (354 sqm); café (141 sqm); a pedestrian thoroughfare from Carmanhall Road to Blackthorn Drive also connecting into the boulevard at Rockbrook to the west; principal vehicular access off Carmanhall Road with servicing and bicycle access also provided off Blackthorn Drive; 285 No. car parking spaces (254 No. at basement level and 31 No. at ground level); 21 No. motorcycle spaces; set-down areas; bicycle parking; bin storage; boundary treatments; hard and soft landscaping; lighting; plant; ESB substations and switchrooms; sedum roofs; and all other associated site works above and below ground.

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SECTION A: Response to topics discussed at Section 5 Pre-planning Consultation Meeting 11.09.2019

REFER TO ABP INSPECTOR'S REPORT DATED 20.09.2019

1.0 BUILDING HEIGHT

1.1 Introduction

The proposed scheme which is guided by current national, regional and local policy will appropriately assimilate into the surrounding context to provide a sustainable residential development. Having regard to the location of the lands in close proximity to public transport and a wide range of services and facilities in close proximity, it is considered that the design response provides a contemporary architectural solution that maximises the development potential of the subject lands.

The aspiration of the promoter is to recognise and retain the positive aspects of the extant scheme (Reg. Ref. ABP- 301428-18) while overlaying the opportunities and directives of the latest guidelines introduced since the extant scheme was designed, namely:

- Sustainable Urban Housing: Design Standards for New Apartments (2018)
- Urban Development and Building Height Guidelines for Planning Authorities (2018).

The design has sought to respond to the locational characteristics of the site, in particular Rockbrook Phase I (constructed) and II (permitted) and the opportunities presented by a strategically located large underutilised plot.

The layout of the scheme has fully considered the site's surrounding context (Fig.1) by positioning the highest form (Fig.1*) at the most appropriate location, fronting Blackthorn Drive and the Green Luas line and acting as a physical marker of the entrance to the Boulevard that connects the Luas via the subject lands to the Beacon South Quarter mixed use development.



1 Proposed Site Plan - Context

SANDYFORD CENTRAL SITE REFERENCES

Α.	Proposed	d	Bloc	:k	A

В.	Proposed Block E	3
C	Proposed Block	•

- D. Proposed Block C
- E. Proposed Block E
- F. Proposed Block F
- a. Entrance Steps
- b. Public Open Space
- c. Playground
- d. Communal Amenity Open Space
- e. Boulevard f. Pedestrian link

FIG.1 Site context

CONTEXT REFERENCES

2.

6

8

10.

11.

- Lakelands housing estate Luas park & ride carpark Bus stop Reservoir Stillorgan Luas Stop Rockbrook Grande Central Rockbrook South Central (Block D) The Sentinel Proposed RB Central (ABP Ref. PL06D.304405) Rockbrook Boulevard
- Pedestrian Link to Blackthorn Drive
- 12. Public Open Space
- 13. Beacon South Quarter Retail Centre
- Ballymoss House (The Hive)
 Silverstone House
 - 16. Grafton House (planning permissionDLRCC Reg. Ref. D18A/1210)
 - 17. Siemens Site

SUFP 2016-2022 OBJECTIVES

- To develop a Sandyford Business District Civic Park at the corner of Corrig Road and Carmanhall Road.
- To seek the provision of a use that animates the street corners e.g. Hotel/Apart Hotel at north western end of Ballymoss Road at the junction with Blackthorn Avenue (Map 1). Building to be of notable design (Map 3).
- To provide a Public Transport Interchange adjacent to the Stillorgan Luas Stop.
- To ensure the provision of pocket parks and civic spaces in accordance with locations specified on Map 1 and Drawing no.10.

Building on the lessons learned from the extant Tivway scheme (fig.2), Henry J Lyons carried out preliminary massing and density studies in line with current design standards and planning policies adopted since the grant of the previous scheme. The key objectives of the initial studies are outlined below:

- To increase the density and mix in line with the Build to Rent nature of the proposed new scheme;

- To provide more and better communal facilities for the residents:

- To provide an enhanced quality to the public realm;

- To provide an attractive, robust elevational treatment, including revisions to height and materials where considered appropriate

While the location and height of Blocks B and C was considered to be fixed in order to complete the gables of the existing Rockbrook development, the other blocks were subject to massing studies in an effort to balance the desired density and maximise the resident's amenity.

Massing study 1 (fig. 3) proposed to maintain the heights of the extant scheme and extend the footprint of block E and F to include more apartments per floor plan as a response to the revised guidelines allowing up to 12 units per core. This option was deemed inappropriate as it would have overshadowed the open amenity spaces and compromised the amenity of the residents.

Massing study 2 (fig.4) proposed to maintain the footprint of the extant scheme with additional height to blocks C, D and F. This option was deemed viable (with the exception of the additional height in block C) and further developed with revisions to the plan configuration of blocks E and F, so the gap between the blocks would be aligned centrally on axis with the east / west Boulevard, providing a superior relationship between the blocks and the boulevard and improving the daylight and sunlight penetration into the amenity spaces within the proposed development.

Fig.2 Initial massing studies: Baseline scheme (as permitted

Fig.3 Initial massing study 1: No additional height and extended footprint

Fig.4 Initial massing study 2: Additional height to blocks C, D and F; same footprint







1.2 Comparison with extant scheme

As indicated in the accompanying figure 5, when compared with the extant "Tivway" scheme the proposed massing revisions include a height increase to Blocks D and F and a height decrease in Blocks A and E as a result of the substitution of a 1.1m deep transfer slab with a 250mm floor slab and the reduction of all floor to floor heights by 50mm in the new proposal.

The accompanying CGI images (fig. 6) illustrate the proposed part 17-storey compared with the permitted 14-storey schemes, suggesting an enhanced slenderness ratio in favour of the proposed scheme.

The revised massing configuration was tested with the microclimate consultants to assess the impact on Daylight/ Sunlight and Wind, and the conclusions are summarised below:

Sunlight & Daylight

The Daylight & Sunlight Report prepared by O'Connor Sutton Cronin Consulting Engineers (enclosed as part of this application as a separate document) demonstrates that the reconfiguration of height does not result in adverse daylight and sunlight results when compared with the extant scheme.

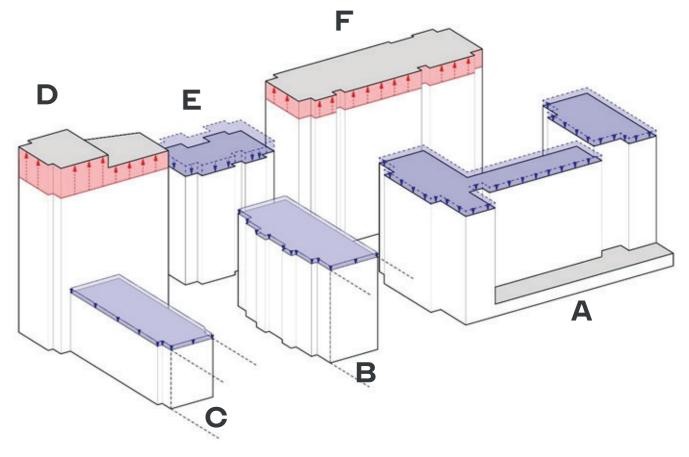
Furthermore, the revised footprint with the gap between blocks E and F provided an enhancement in the sunlight availability along the Boulevard, and the addition of a rooftop open amenity space increases the available sun-lit open spaces for the residents' amenity.

Wind microclimate

Wind studies prepared by B-Fluid (enclosed as part of the application as a separate document) suggest that the additional height in Block F could affect the wind pattern in a positive way when compared with the extant permission.

The increased height of block F provides additional shielding and reduces the risk of downdraft effects along the face of Block D.

In conclusion, the proposed new massing when compared to the extant scheme presents some opportunities to improve upon the many positive aspects of the extant scheme.



		Tivway	Sandy	rford Central	Height difference
Block	Storeys	Parapet height (mm)	Storeys	Parapet height (mm)	(mm)
Α	11	121,000	11	119,925	-1,075
	10	117,950	10	116,925	-1,025
В	8	111,300	8	110,925	-375
С	5	102,500	5	101,925	-575
D	14	132,000	16	134,925	2,925
			17	137,682	5,682
Е	10	117,400	10	116,925	-475
F	12	123,500	14	128,925	5,425



Fig.6CCI Images showing the proposed Block D and the extant scheme seen from the same viewpoint at the crossing of the Luas railway.The red line indicated the outlines of the extant scheme, suggesting an enhanced slenderness ratio in favour of the revised proposed scheme.

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1.3 Block D height studies

The provision of an appropriate height to Block D has been an important consideration throughout the design development stages. It is desired to provide a slender vertical structure at this location which 'announces' the urban quarter from the transport node, in line with the aspirations of the Urban Development and Building Height: Guidelines for Planning Authorities (December 2018), complementing the presence of height at the Sentinel Building which is located at the other end of the pedestrian thoroughfare (fig. 7).

The consideration of alternative height strategies for Block D are detailed and illustrated in figures 8,9,10 in the following pages.

Option No. 1 – 14 No. storey

An option with Block D with 14 storeys (which complies with the recommended height provided in the Sandyford Urban Framework Plan 2016) was initially analysed but was later discarded as a fundamental principle of the renewed design approach is to provide architectural interest and an exciting entry to the scheme. It was considered that providing a 14 No. storey building at Block D would result in relatively monotonous building heights across the scheme which would fail to avail of the opportunity to appropriately announce the main access point to the urban quarter from the high capacity public transport interchange at the Luas.

As a result of this study it was decided to increase the height to 16 levels of residential accommodation and a multi-function room with roof garden on Level 17, creating a major entry point into the neighbourhood and providing a strong urban edge on Blackthorn Drive.

Option No.2 - Part 16, Part 17 No. storey

As discussed with Dún Laoghaire – Rathdown County Council on the 30th April 2019 and 18th June 2019 (Section 247 meetings), the Design Team presented a scheme with increased heights of 16 No. storeys at Block D, and later to part 17 No. storeys at Block D with the addition of the multi-function space (presented at the second Section 247 pre-planning meeting).

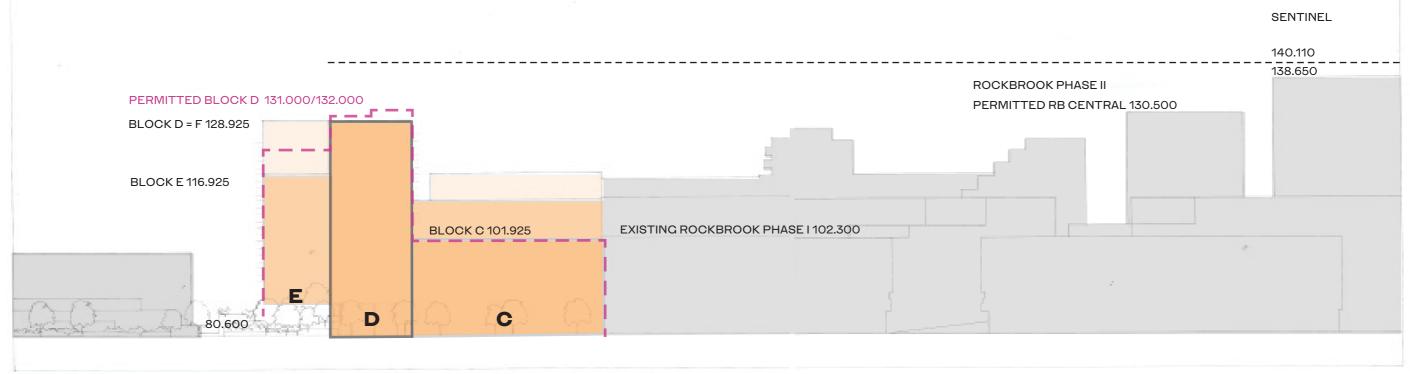
The decision to increase the height to part 17 No. storeys was informed by the relationship with the (unfinished) Sentinel building located diagonally opposite at the south western extreme corner of the Rockbrook neighbourhood, which marks the entrance to the Beacon South Quarter retail core.

From an urban design point of view, it was considered appropriate to match the height of the Sentinel building with a similar "twin" structure at the other end of the pedestrian thoroughfare. The two blocks would impart a character and identity to the neighbourhood which is appropriate to the scale and density aspired to in the SUFP and assists with orientation and place making by marking major entry points and routes into and through the neighbourhood.

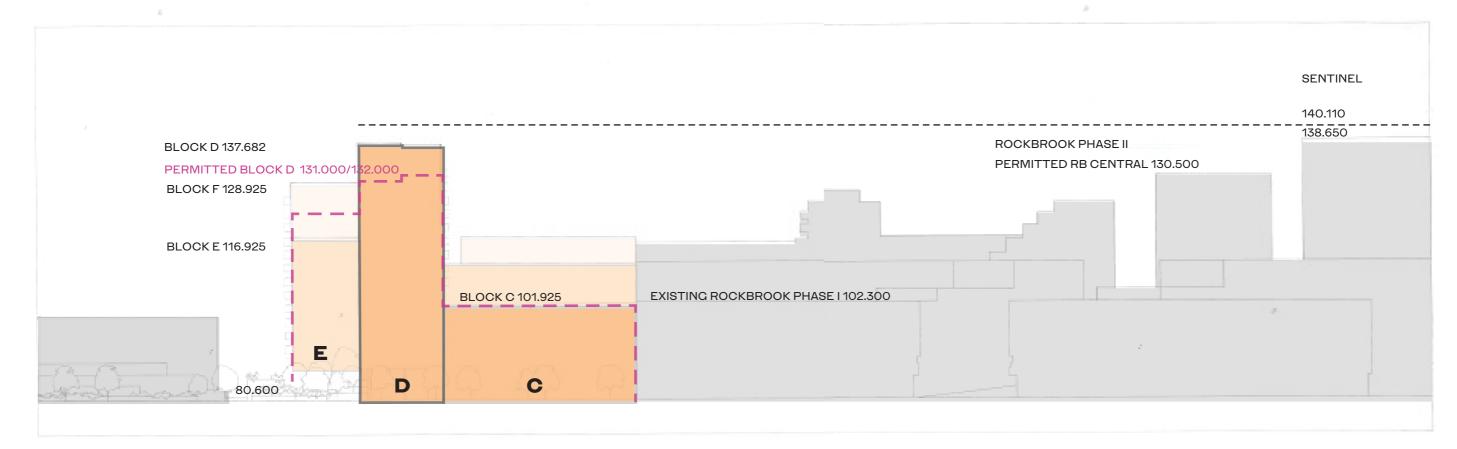


Fig.7 Photo of scale model showing block D seen from the corner of the Luas stop. The outline of the Sentinel can be seen in the background

(C) Enda Cavanagh Photography



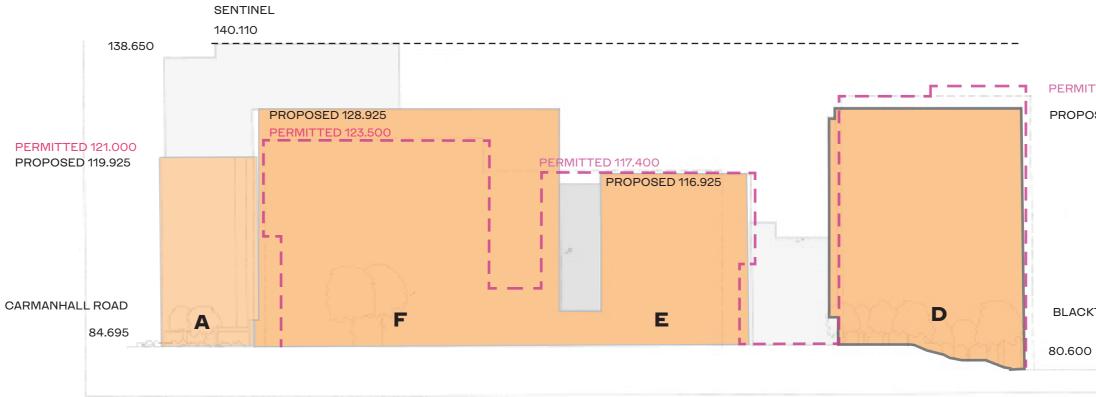
Option 1 - Elevation to Blackthorn Drive



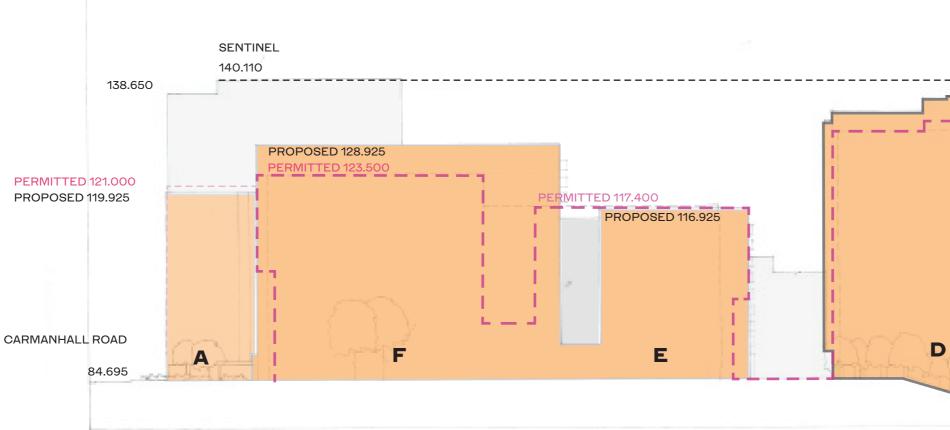
Option 2 - Elevation to Blackthorn Drive

Fig.8 Comparative Elevations - Blackthorn Drive

1.3.2 Comparative Elevations - East Elevation



Option 1 - East Elevation



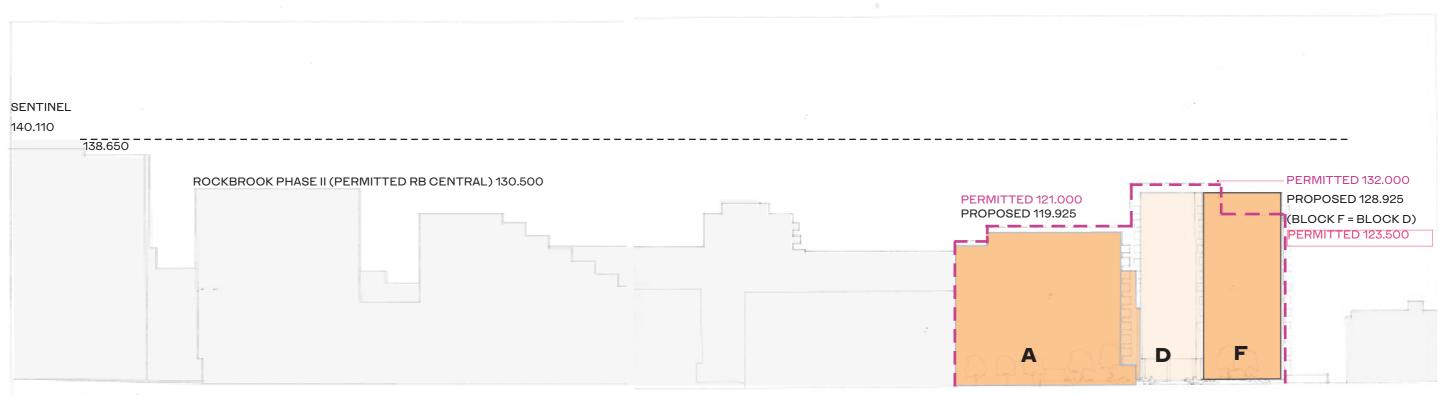
Option 2 - East Elevation Fig.9 Comparative Elevations - East Elevation

PERMITTED 132.000

PROPOSED 128.925

BLACKTHORN DRIVE

PROPOSED 137.682 PERMITTED 132.000 BLACKTHORN DRIVE 80.600



Option 1 - Elevation to Carmanhall Road

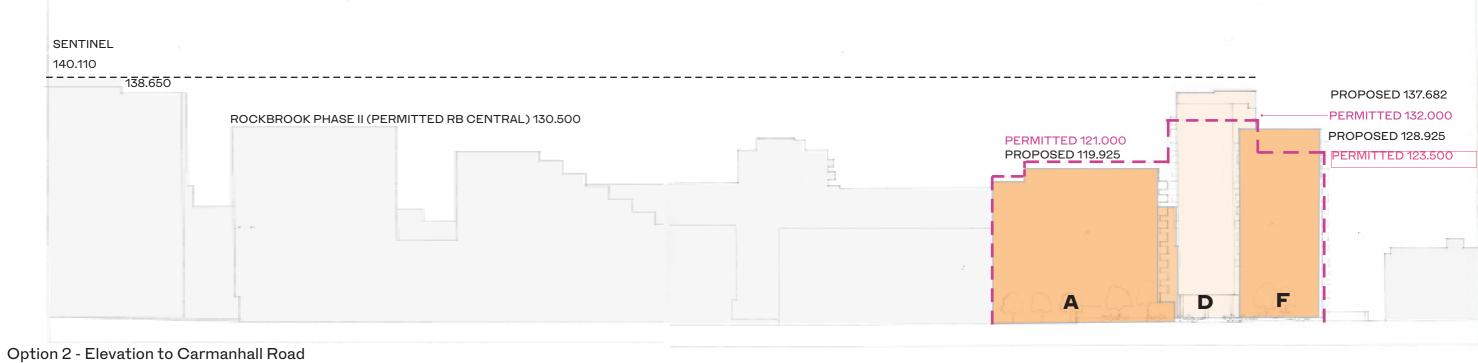


Fig.10 Comparative Elevations - Carmanhall Road

1.4 Context: building heights

In line with the aspirations of the Sandyford Urban Framework Plan 2016-2022, a significant number of buildings have been granted planning permission and/or built in recent years (fig. 11).

Below is a list of some relevant buildings in the immediate context of the subject site and their number of storeys:

1.	Rockbrook Phase 1 (residential)	5-8 storeys
2.	The Sentinel (offices, unfinished)	14 storeys
3.	Rockbrook Phase 2 (permitted)	8-14 storeys
Beac	on South Quarter:	
4.	BSQ The Edges (mixed use w/retail)	7-8 storeys

- 5. BSQ The Cubes 4/5/6 (residential) 9 storeys
- BSQ (tower at The Plaza) 14 storeys
 BSQ The Cubes 1/2/3 (residential) 10 storeys
- 8. The Arcs (residential) 11 storeys

These buildings present a relatively high skyline with a new established average or "shoulder" height of ca. 10 storeys and "peaks" marked by the Sentinel (2) and the 14-storey over podium Beacon South Quarter (6), (fig. 12).

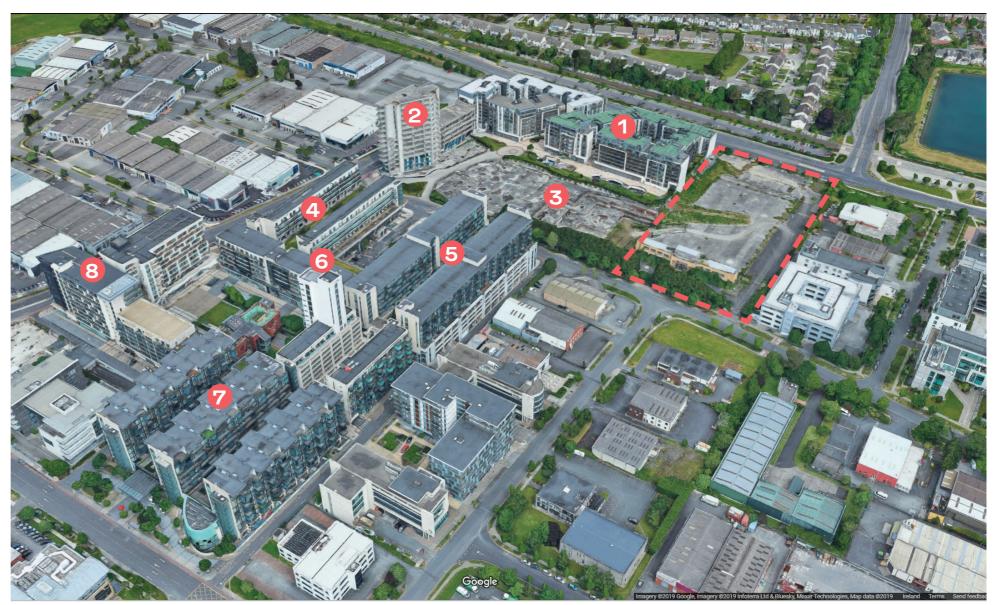


Fig. 11 Aerial view of context with subject site outlined in red. Source Coogle Maps (c) 2019



Fig.12 Photo from Kilmacud Luas stop entrance on Benildus Avenue showing the unfinished Sentinel building (1) and the 14 storey Beacon South Quarter residential building (2). Source: Henry J Lyons, August 2019

> Fig. 13 Image showing the recently completed 11 storey residential development in the foreground and the Sentinel building in the background



Originally designed in 2005 as the tallest structure in the vicinity at the corner of Carmanhall Road and Blackthorn Drive, the Sentinel was intended as an urban marker to signify the pedestrian entrance to the Rockbrook opposite Beacon South Quarter. The economic downturn of 2008 meant this building could not be completed and has remained as an unfinished structure for over a decade (fig.14).

The Sentinel was intended to provide 14 storeys of office accommodation with floor to floor heights of 3.75m and plant at its top. Over 14 storeys, this amounts to 54.8m height over the Boulevard level.

As presented in the previous height studies, Block D aims to complement, re-signify and provide meaning to the Sentinel (fig.15).



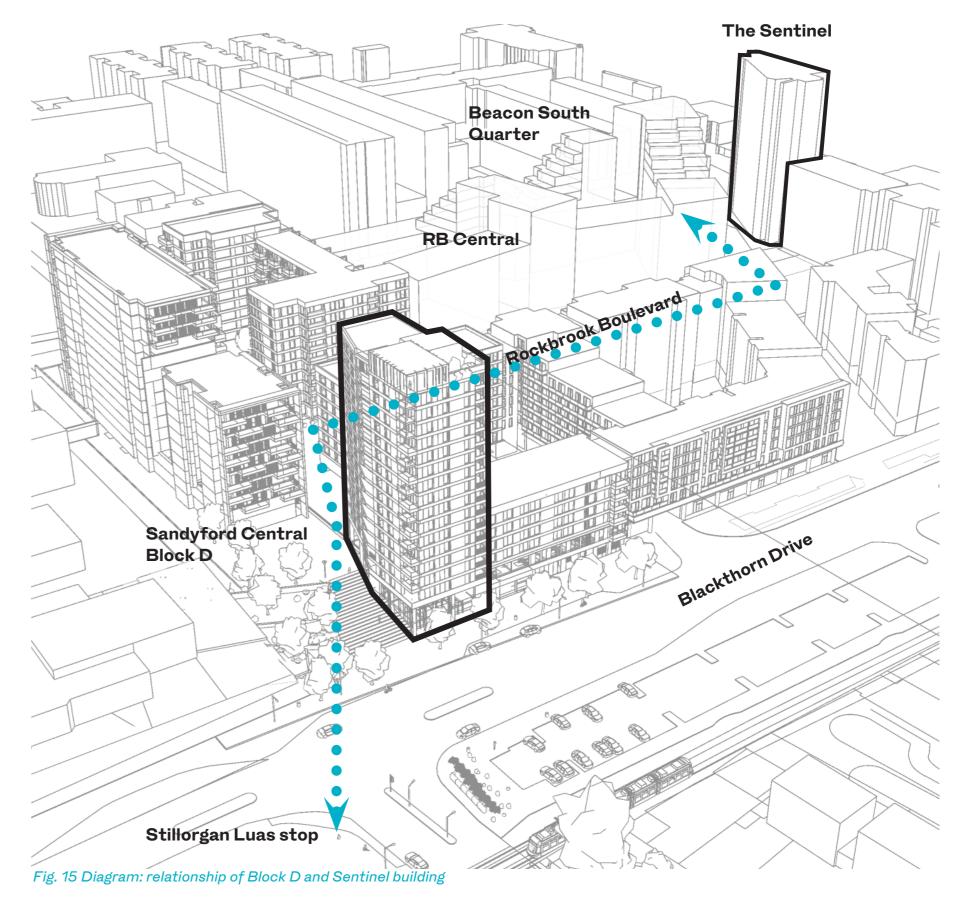


Fig. 14 The Sentinel building at the corner of Carmanhall Road marks the entrance to Rockbrook on Blackthorn Drive

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1.5 Photographic sequence: from Luas stop to Beacon South Quarter

A sequence of images is presented in the following pages illustrating the imaginary journey of a resident going from the Stillorgan green line Luas stop to the Beacon South Quarter mixed use development through the Rockbrook boulevard.







Fig. 16 Photo from Luas stop looking into subject site with the unfinished Sentinel building in the background.

Source: Henry J Lyons, August 2019



Fig. 17 Photo from Blackthorn Drive at the traffic light looking into subject site. The Sentinel is no longer visible and the 14 storey element of Beacon South Quarter becomes visible.

Source:

Henry J Lyons, August 2019







Fig. 18 Photo from the Rockbrook Boulevard from the subject site hoarding looking towards the unfinished Sentinel building in the background.

Source: Henry J Lyons, August 2019

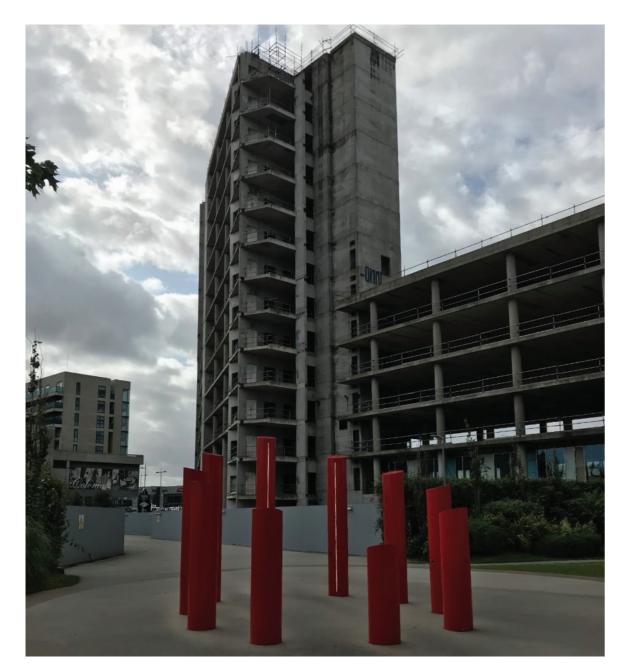


Source: Henry J Lyons, August 2019

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Fig. 19 Photo from the Rockbrook Boulevard from the subject site hoarding looking towards the unfinished Sentinel building in the background.





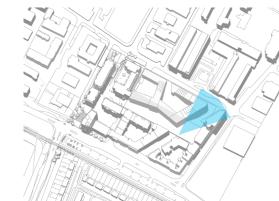


Fig.20 Photo from the Rockbrook Boulevard looking towards Beacon South Quarter with the unfinished Sentinel building in the background.

Source: Henry J Lyons, August 2019



Source:

5

Fig. 21 Photo in front of the Sentinel building looking towards Beacon South Quarter.

Henry J Lyons, August 2019

1.6 Urban Design considerations

The Applicant acknowledges that a 17 storey building exceeds the maximum height of 14 storeys set out in the Sandyford Urban Framework Plan 2016. The justification for additional height is further elaborated in the *Material Contravention Statement prepared by Thornton O'Connor* which is submitted with this application.

However, it is our opinion that the height studies presented clearly demonstrate that the building height of block D should be driven by **urban design principles**.

As stated in Urban Development and Building Height: Guidelines for Planning Authorities (December 2018):

Furthermore, while taller buildings will bring much needed additional housing and economic development to well-located urban areas, they can also assist in reinforcing and contributing to a sense of place within a city or town centre, such as indicating the main centres of activity, important street junctions, public spaces and transport interchanges. In this manner, increased building height is a key factor in assisting modern placemaking and improving the overall quality of our urban environments.

Some key urban design considerations driving Block D height are summarised below and illustrated in the scale model photos shown in fig. 22:

1. Located opposite the Stillorgan green line Luas stop, Block D assists with a wayfinding strategy as singular, memorable building of architectural interest.

2. At the end of Raphaela's Road, Block D marks the gateway entrance to the Sandyford Business District on approach from Stillorgan.

3. Block D provides a bookend to the monotonous 5&6 storey building height along Blackthorn Drive.

4. Seen from Corrig Road, it provides a focal point at the axis of the pedestrian link, complementing the objective for a future park the corner of Carmanhall Road and assisting with wayfinding towards the Luas.











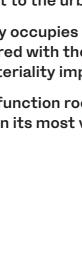
1.7 Justification for adopted height

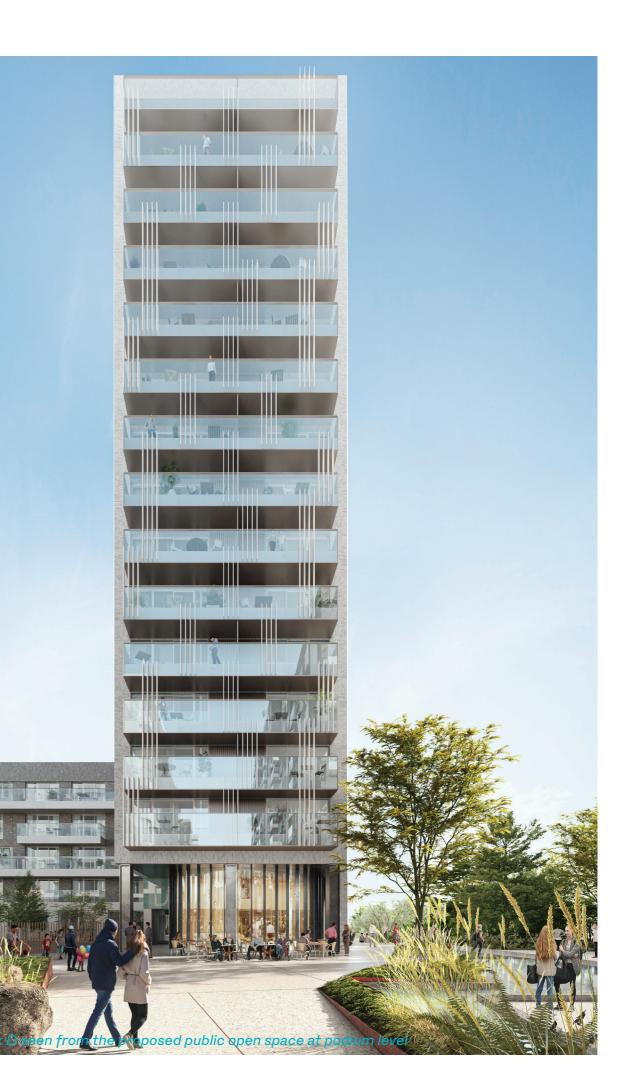
In conclusion, while the Applicant acknowledges the proposed part 16 and part 17 storey height proposed for Block D would be a material contravention of the maximum heights set out in the Sandyford Urban Framework Plan 2016-2022, the height studies presented with this application in line with the aspirations of the Urban Development and Building Height Guidelines for Planning Authorities (2018) clearly demonstrate that the adopted height for block D is appropriate for the scheme.

The mentioned Height Guidelines encourage the provision of height in well-located urban areas, considering increased building height a key factor in assisting modern place-making and improving the overall quality of urban environments.

The reasons and justification for the adopted height of block D are summarised below:

- Block D is located at an ideal spot for height at the intersection of two wide urban arteries and diagonally across the Stillorgan Luas stop, acting as an urban marker from different directions, reinforcing and contributing to a sense of place-making.
- Block D indicates the gateway to the residential quarter and the location of the transport interchange and the public spaces as provided in the Height Guidelines.
- At the end of Raphaela's Road it boldly announces the Sandyford Urban District as a modern, contemporary neighbourhood on approach from Stillorgan
- It provides a focal point of urban activity at the end of the pedestrian link from Carmanhall Road / Corrig Road, assisting in the wayfinding strategy to mark the location of the transport interchange.
- The proposed block D height complements and re-signifies the unfinished Sentinel building. While still lower than the Sentinel, these "twin beacons" at either end of the pedestrian Boulevard mark the start and the end of the pedestrian journey to and from the Luas stop.
- The established context height including existing and proposed 14-storey buildings in the immediate vicinity would see a similar structure blend with in the background, losing an opportunity to make a bold statement to the Sandyford skyline.
- A 14 No. storey option analysed at early design stages was considered to be monotonous in heights across the scheme, failing to avail of the opportunity to appropriately announce the main access point to the urban quarter.
- The footprint of the 17th storey occupies less than half the building footprint, reducing the height impact when compared with the extant scheme. Furthermore, the revisions to the building massing and materiality improve its slenderness ratio.
- The addition of a rooftop multifunction room adds architectural interest to block D, reinforcing its urban presence in its most visible corner.







3.0. DEVELOPMENT STANDARDS

Following the Section 5 Pre-Application Consultation meeting with An Bord Pleanála and the Local Authority held on the 11th September 2019, the Applicant reviewed some aspects of the scheme taking the inspector's report into consideration.

The topics to be addressed are treated under the following headings:

- 3.1 Housing Mix
- 3.2 Quantum and quality of open Space and Amenity Areas

3.3 Residential support facilities / services / amenities & childcare

3.4 Car parking

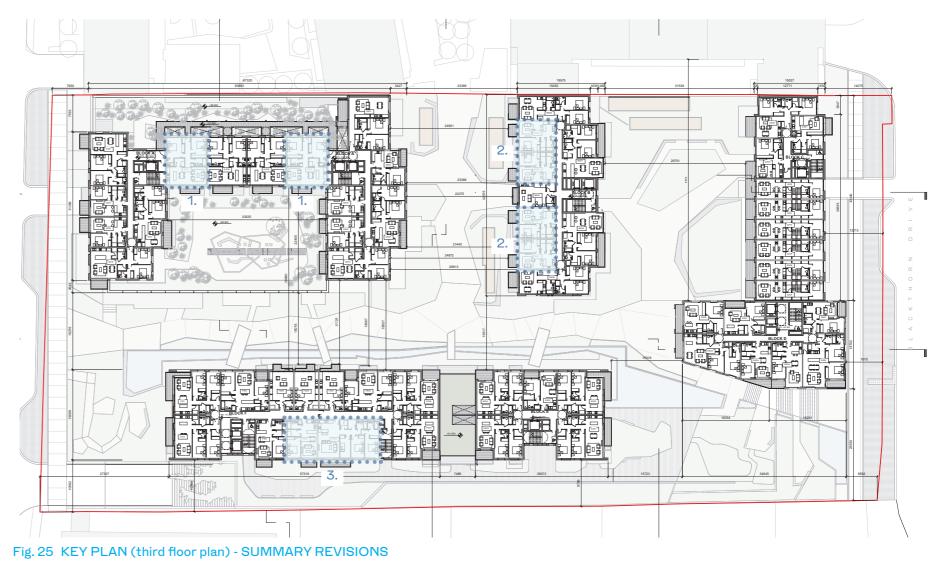
3.1 HOUSING MIX

In response to the concerns raised by An Bord Pleanála in respect of the undersupply of larger units, the Applicant proposes a revised unit mix increasing the quantum of 3-bedroom apartments as illustrated in the key plan (fig. 25) and comparative tables attached (fig.26).

3.2 OPEN SPACE AND AMENITY AREAS

The Applicant proposes a revised landscaping layout, increasing the quantum of Public open Space and providing details and clarification in respect of play areas.

Please refer to the schedule of open spaces (point 6 of section B in this report) and the landscape report and drawings prepared by Bernard Seymour Landscape Architects.



- 1. Replace 4no. studio units for 2no. 2B unit in Block A (levels 2-5)
- 2. Replace 4no. 1B units for 2no. 3B units in Block B (levels 1-2)
- 3. Replace 2no. 2B units for 1no. 1B and 1no. 3B in block F (levels 1-14)

S.5 Pre-Application consultation

Proposed

UNIT MIX						UNIT MIX					
	Qty	Avg	%	Dual Aspect	Area sqm.		Qty	Avg	%	Dual Aspect	Area sqm.
Studio Units	62	37.8645	10.78%	16	2,348	Studio Units	46	39.1	8.2%	16	1,798
1B Units	195	48.6759	33.91%	58	9,492	1B Units	205	48.7	36.3%	58	9,973
2B Units	316	78.1582	54.96%	250	24,698	2B Units	295	78.5	52.3%	250	23,147
3B Units	2	105.4	0.35%	2	211	3B Units	18	100.7	3.2%	2	1,812
Total	575			326 57%	36,748	Total	564			326 57%	36,731

Fig. 26 Comparative tables indicating the unit mix for the S.5 pre-application consultation submission and the proposed amendments

3.3 RESIDENTIAL SUPPORT FACILITIES / SERVICES / AMENITIES & CRÈCHE

As requested by the Authority, the Applicant reviewed the provision of Communal Facilities and on site support services for the residents in Blocks C/D and Block A as summarised below and illustrated in the accompanying floor plans (fig.26, fig.27).

A revised crèche layout of increased size is provided (at the expense of 2no previously proposed residential units), increasing its size from 215 sqm to 354 sqm.

BLOCK C/D

- Increased Gym size and sanitary facilities in Block C/D

- Revised gym entrance layout via shared lobby fronting to Blackthorn Drive

- Proposed new post / parcel room for deliveries in block D
- Increased size of administration rooms (resident support)

Proposed new maintenance room (resident support)

including changing facilities for personnel, linked to carpark
 Revised layout of communal multi-purpose room and

associated open amenity space on level 17, including a kitchen.

CHILDCARE / CRÈCHE

- Increased crèche size on Level 1 from 215 to 354 sqm.

- Increased external play area

PUBLIC & RESIDENTS' ACCESS LIFT

- Revised Level O ground floor lobby layout with shared entrance to gym with enhanced visibility

- Revised Level 1 Boulevard ground floor lobby with shared entrance to crèche, and block D communal facilities



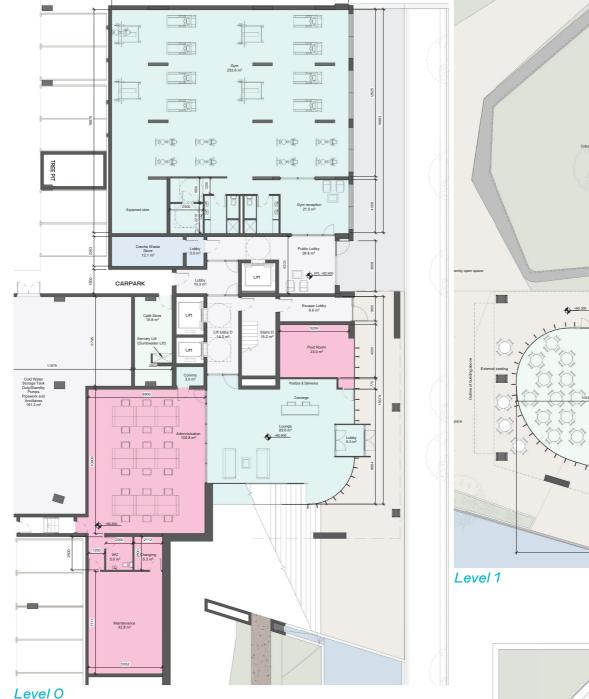




Fig. 26 Block C/D resident amenities : Level O, Level 1 and Level 17

Level 17





The Applicant reviewed the internal layout of the Communal Facilities to improve its visibility and presence to animate the Carmanhall Road entrance of the scheme.

The following high-level revisions are now proposed:

BLOCK A

- Multi purpose lounge in lieu of gym in Block A
- Revised layout of resident amenities entrance including enhanced visibility (double height space)
- Relocation of games room along Carmanhall Road to animate street elevation
- Enhanced connection to Level 2 communal open space
- Revised Communal Amenity open Space design (refer to Landscape Architects' report)
- Revised material and elevational treatment introducing back-painted glass to the entrance space

A scaled version of the revised layouts in submitted with the planning application.





Fig. 27 Block A resident amenities: Level 1 and Level 2

3.4 CAR PARKING

The Applicant proposes to increase the quantum of car parking spaces from the previously proposed ratio of 0.47 cars per unit to a revised proposed ratio of 0.505 cars per unit (fig.28).

The proposed changes (fig. 28) include a revised footprint of the basement car park with a level change (level with Blackthorn Drive) to accommodate 36no. stacked car parking spaces and provide easier and better service access; the provision of 21no. motorcycle spaces; and revisions to the bicycle parking provision comprising of a mix of Sheffield stands and stacked bicycle parking.

A scaled version of the proposed car parking plans on Level O and Level 1 are provided with this planning application.

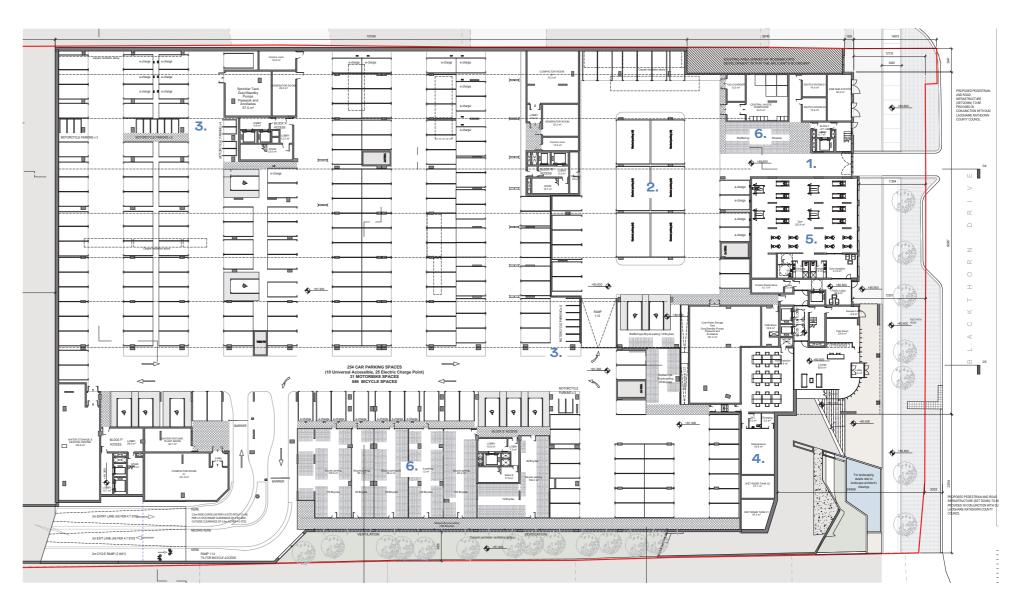
In addition, a key plan and tables with the summary changes since the Section 5 pre-application meeting are presented herewith.

O1. Issued for S.5 Pre-Application consultation

CARPARKING	LO	L1		
Carparking Spaces Provided	241		31	272
TOTAL CARPARKING AREA incl Block A	Sq	m		9,997
	1 per bedroom			895
BICYCLE PARKING Bicycle parking spaces required Visitor bicycle spaces	1 per bedroom 1 per 2 units	(0.50	895 288

CAR	PARKING
Level	0
Level	1
CARP	ARKING RATIO
CARF	ARKING AREA
BICY	CLE PARKING
Requir	ement: 1per Bed + 1/2 uni
· ·	ement: 1per Bed + 1/2 uni
· ·	/IDED SPACES
PRO	0
PRO\ Level Level	0

Fig. 28 Summary tables comparing the parking provision as submitted for the S.5 pre-planning consultation and the proposed provision for the planning application



Level O - Lower Ground Floor SUMMARY REVISIONS:

Provide level service entrance at Blackthorn Drive. Removal of ramps 1. and addition of bicycle spaces

- 2. Provide 36no. stacked car parking spaces
- 3. Provide 21no. motorcycle spaces
- Maintenance room / resident support 4.
- 5. **Revisions to resident amenities**
- 6. Revisions to location and types of bicycle parking provision

Fig. 28 Level O car park plan with annotated revisions

O2. Proposed for planning application

Subtotal PRC	U.A.	e-car	Stacked	Standard	
254	10	25	36	183	
31	2			29	
	1,502	L.1	8,088	L.0	

its:	Residents: 895	Visitors :	282	1,177
	Stacked parking		Sheffield	Subtotal
	786		102	888
	110		30	140
			150	150
	Residents: 896	Visitors:	282	1,178

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SECTION B: Issues to be addressed by the Applicant

REFER TO ABP INSPECTOR'S REPORT DATED 20.09.2019



Henry J Lyons

2.0 PART V PROVISION

The Applicant proposes to offer 56no apartments to comply with Part V as detailed in the attached scheme and schedule (fig. 29, 30)schedule and floor plans (fig.30).

A scaled version of these drawings is being submitted with this planning application.

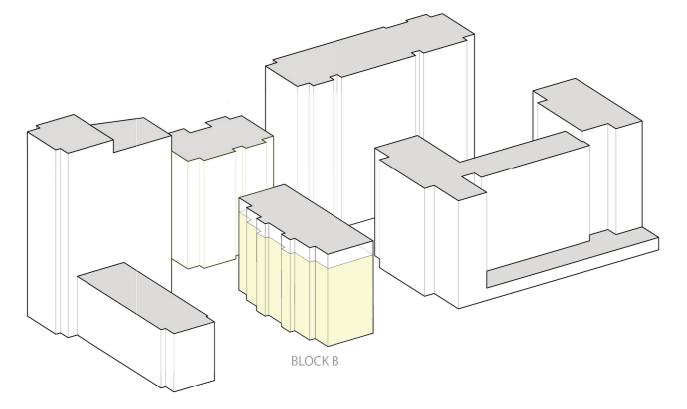


Fig. 29 Indicative sketch showing location of Part V apartments within proposed development

Plaak	Laval	Unit	Unit	No. of Bedrooms	Total Apartment	Required Apartment Area	Apartment	Apartment Orientation	Part V Allocation
Block	Level	Number	Туре	Deurooms	Area	Apartment Area	Aspect	Onentation	Allocation
В	01 - BOULEVARD - GRD.	B101	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
В	FLOOR 01 - BOULEVARD - GRD.	B102	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
	FLOOR								
В	01 - BOULEVARD - GRD. FLOOR	B104	B-3B-i	3	96.4	90.0 m ²	SINGLE	SW	Yes
В	01 - BOULEVARD - GRD. FLOOR	B104	B-3B-i	3	96.4	90.0 m²	SINGLE	SW	Yes
В	01 - BOULEVARD - GRD.	B105	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
В	FLOOR 01 - BOULEVARD - GRD.	B106	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
	FLOOR	Bioo	0 201	-		10.0 m	OINGEE		100
	D - GRD. FLOOR: 6			-	503.2				
B	02 - SECOND FLOOR	B201	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
B	02 - SECOND FLOOR	B202	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
B	02 - SECOND FLOOR	B203	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
B	02 - SECOND FLOOR	B204	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	02 - SECOND FLOOR	B205	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	02 - SECOND FLOOR	B206	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	02 - SECOND FLOOR	B207	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
В	02 - SECOND FLOOR	B208	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
02 - SECOND FL					498.4				
В	03 - THIRD FLOOR	B301	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
В	03 - THIRD FLOOR	B302	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
В	03 - THIRD FLOOR	B303	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	03 - THIRD FLOOR	B304	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	03 - THIRD FLOOR	B305	B-ST-i	1_ST	37.6	37.0 m ²	SINGLE	SW	Yes
В	03 - THIRD FLOOR	B306	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	03 - THIRD FLOOR	B307	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	03 - THIRD FLOOR	B308	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
B	03 - THIRD FLOOR	B309	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
03 - THIRD FLO		0000	0 20 1	2	536.0	10.0 111	ONTOLL		100
B	04 - FOURTH FLOOR	B401	B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
B	04 - FOURTH FLOOR	B401 B402	B-2B-ii	2	75.4	73.0 m ²	DOUBLE	SW & NE	Yes
B		B402 B403	A-1B-i	1	47.0	45.0 m ²	SINGLE	SWANE	Yes
	04 - FOURTH FLOOR								
B	04 - FOURTH FLOOR	B404	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
B	04 - FOURTH FLOOR	B405	B-ST-i	1_ST	37.6	37.0 m ²	SINGLE	SW	Yes
В	04 - FOURTH FLOOR	B406	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
В	04 - FOURTH FLOOR	B407	A-1B-i	1	47.0	45.0 m ²	SINGLE	SW	Yes
				2	75.4	73.0 m ²	DOUBLE	SW & NE	
В	04 - FOURTH FLOOR	B408	B-2B-ii						Yes
В	04 - FOURTH FLOOR	B408 B409	B-2B-ii B-2B-i	2	79.8	73.0 m ²	SINGLE	NE	Yes
	04 - FOURTH FLOOR								
B 04 - FOURTH FL B	04 - FOURTH FLOOR	B409 B501			79.8 536.0 79.8		SINGLE	NE	
B 04 - FOURTH FL	04 - FOURTH FLOOR OOR: 9	B409	B-2B-i	2	79.8 536.0	73.0 m ²	SINGLE	NE	Yes
B 04 - FOURTH FL B	04 - FOURTH FLOOR .OOR: 9 05 - FIFTH FLOOR	B409 B501	B-2B-i B-2B-i	2	79.8 536.0 79.8	73.0 m ²	SINGLE	NE	Yes
B 04 - FOURTH FL B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502	B-2B-i B-2B-i B-2B-ii	2 2 2	79.8 536.0 79.8 75.4	73.0 m ² 73.0 m ² 73.0 m ²	SINGLE SINGLE DOUBLE	NE NE SW & NE	Yes Yes Yes
B 04 - FOURTH FL B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503	B-2B-i B-2B-i B-2B-ii A-1B-i	2 2 2 1	79.8 536.0 79.8 75.4 47.0	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ²	SINGLE SINGLE DOUBLE SINGLE	NE SW & NE SW	Yes Yes Yes Yes
B 04 - FOURTH FL B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503 B504	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i	2 2 2 1 1	79.8 536.0 79.8 75.4 47.0 47.0	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ² 45.0 m ²	SINGLE SINGLE DOUBLE SINGLE SINGLE	NE SW & NE SW SW	Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 05 - FIFTH FLOOR 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503 B504 B505	B-2B-i B-2B-i A-1B-i A-1B-i B-ST-i	2 2 1 1 1_ST	79.8 536.0 79.8 75.4 47.0 47.0 37.6	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ² 45.0 m ² 37.0 m ² 45.0 m ²	SINGLE SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW	Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B506 B507	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i A-1B-i	2 2 1 1 1 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 47.0	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ² 45.0 m ² 45.0 m ² 45.0 m ² 45.0 m ²	SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508	B-2B-i B-2B-i B-2B-ii A-1B-i B-ST-i A-1B-i A-1B-i B-2B-ii	2 2 2 1 1 1_ST 1 1 2	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 57.4 75.4	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE DOUBLE	NE SW & NE SW SW SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B B B B B	04 - FOURTH FLOOR .OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B506 B507	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i A-1B-i	2 2 1 1 1 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 75.4 79.8	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ² 45.0 m ² 45.0 m ² 45.0 m ² 45.0 m ²	SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B506 B507 B508 B509	B-2B-i B-2B-i A-1B-i A-1B-i B-ST-i A-1B-i A-1B-i B-2B-ii B-2B-i	2 2 1 11 11 12 2	79.8 536.0 79.8 75.4 47.0 37.6 47.0 75.4 70.0 75.4 79.8 536.0	73.0 m ² 73.0 m ² 73.0 m ² 45.0 m ² 45.0 m ² 45.0 m ² 45.0 m ² 73.0 m ² 73.0 m ² 73.0 m ²	SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE DOUBLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW & NE NE	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B B B 5 - FIFTH FLOO B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - SIXTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i B-ST-i A-1B-i B-2B-ii B-2B-i B-2B-i	2 2 1 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 75.4 79.8 536.0 79.8 536.0 79.8	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 73.0 m² 73.0 m² 73.0 m²	SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW & NE NE	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B B B 05 - FIFTH FLOO B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - SIXTH FLOOR 06 - SIXTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i A-1B-i B-2B-ii B-2B-i B-2B-i B-2B-i	2 2 1 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 75.4 79.8 536.0 79.8 536.0 79.8 75.4	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 73.0 m² 73.0 m² 73.0 m² 73.0 m² 73.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE DOUBLE SINGLE DOUBLE DOUBLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW & NE NE SW & NE	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B D4 - FOURTH FL B B B B B B B D5 - FIFTH FLOC B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR 06 - SIXTH FLOOR 06 - SIXTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602 B603	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i B-2B-i B-2B-ii B-2B-i B-2B-i B-2B-ii A-1B-i	2 2 2 1 1 1 1 1 1 2 2 2 2 2 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 37.6 47.0 75.4 536.0 79.8 536.0 79.8 75.4 47.0 47.0 47.0 47.0 47.0 75.4 79.8 75.4 47.0	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE DOUBLE SINGLE DOUBLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B 04 - FOURTH FL B B B B B B B B D5 - FIFTH FLOC B B B B B B B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602 B603 B604	B-2B-i B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i B-ST-i B-2B-ii B-2B-ii B-2B-i B-2B-ii A-1B-i A-1B-i	2 2 2 1 1 1 1 5 T 1 1 2 2 2 2 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 536.0 75.4 79.8 536.0 79.8 536.0 79.8 75.4 47.0 47.0 47.0 75.4 47.0 47.0 47.0 47.0	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 45.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE DOUBLE SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B D4 - FOURTH FL B B B B B B B B B D5 - FIFTH FLOO B B B B B B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602 B603 B604 B605	B-2B-i B-2B-i B-2B-ii A-1B-i B-ST-i B-ST-i B-ST-i B-2B-ii B-2B-ii B-2B-ii B-2B-ii A-1B-i B-2B-ii A-1B-i B-ST-i	2 2 1 11 11 12 2 2 2	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 75.4 79.8 536.0 79.8 536.0 79.8 75.4 47.0 47.0 36.0 79.8 75.4 47.0 47.0 37.6	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m²	SINGLE SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B D4 - FOURTH FL B B B B B B B D5 - FIFTH FLOC B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B505 B506 B507 B508 B509 B601 B602 B603 B605 B605 B606	B-2B-i B-2B-ii A-1B-i A-1B-i B-ST-i A-1B-i B-2B-ii B-2B-ii B-2B-ii B-2B-ii B-2B-ii B-2B-ii B-2B-ii A-1B-i A-1B-i A-1B-i	2 2 1 11 11 12 2 2 2 2	79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 75.4 79.8 536.0 79.8 536.0 79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 37.6 47.0	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW NE NE NE SW & NE SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
B B Constant of the second s	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602 B603 B604 B605 B606 B607	B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i B-ST-i A-1B-i B-2B-ii B-2B-i B-2B-i B-2B-ii A-1B-i B-ST-i A-1B-i A-1B-i	2 2 1 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 75.4 79.8 536.0 79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 37.6 47.0 47.0 47.0	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 45.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW SW SW SW	Yes Yes
B D4 - FOURTH FL B B B B B B B C 5 - FIFTH FLOC B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - SIXTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B601 B602 B603 B604 B605 B606 B607 B608	B-2B-i B-2B-i A-1B-i A-1B-i A-1B-i B-ST-i A-1B-i B-2B-i B-2B-i B-2B-i B-2B-i B-2B-i B-ST-i A-1B-i B-ST-i A-1B-i B-2B-ii B-2B-ii	2 2 1 1 11 11 2 2 2 2 1 12 2 1 11 2 2 1 11 2 2 1 1 1 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 75.4 79.8 536.0 79.8 536.0 79.8 75.4 47.0 37.6 47.0 37.6 47.0 37.6 47.0 47.0 57.4 47.0 57.6 47.0 57.6 47.0 57.6 47.0 57.6 47.0 57.6 47.0 57.6 47.0 57.4	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 37.0 m² 45.0 m² 73.0 m² 45.0 m² 73.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE DOUBLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW SW SW SW	Yes Yes
B 04 - FOURTH FL B B B B B B C5 - FIFTH FLOC B B B B B B B B B B B B B	04 - FOURTH FLOOR .OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602 B603 B604 B605 B606 B607	B-2B-i B-2B-ii A-1B-i A-1B-i A-1B-i B-ST-i A-1B-i B-2B-ii B-2B-i B-2B-i B-2B-ii A-1B-i B-ST-i A-1B-i A-1B-i	2 2 1 1 1	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 37.6 47.0 75.4 79.8 536.0 79.8 75.4 47.0 47.0 75.4 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 79.8	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 45.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW SW SW SW SW SW	Yes Yes
B D4 - FOURTH FL B B B B B B B C5 - FIFTH FLOC B B B B B B B B B B B B B	04 - FOURTH FLOOR OOR: 9 05 - FIFTH FLOOR 05 - FIFTH FLOOR 06 - SIXTH FLOOR 07 - SIXTH FLOOR 07 - SIXTH FLOOR 08 - SIXTH FLOOR 09 - SIXTH FLOOR 00	B409 B501 B502 B503 B504 B505 B506 B507 B508 B509 B601 B602 B603 B604 B605 B606 B607 B608 B609	B-2B-i B-2B-i B-2B-ii A-1B-i B-2B-ii A-1B-i B-2B-ii B-2B-ii B-2B-ii A-1B-i B-2B-ii A-1B-i B-2B-ii A-1B-i B-2B-ii B-2B-ii A-1B-i B-2B-ii	2 2 1 11 11 12 2 2 2 2 1 12 2 1 11 12 2 2 2 2 2 2 2 2 2 2 2 2 2	79.8 536.0 79.8 75.4 47.0 37.6 47.0 47.0 75.4 79.8 536.0 79.8 536.0 79.8 75.4 47.0 47.0 47.0 37.6 47.0 37.6 47.0 37.6 47.0 53.6 79.8 536.0	73.0 m² 73.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 45.0 m² 73.0 m² 73.0 m² 73.0 m² 73.0 m²	SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE SINGLE	NE SW & NE SW SW SW SW SW SW SW SW NE NE SW & NE SW SW SW SW SW SW SW	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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Fig. 30Part V schedule





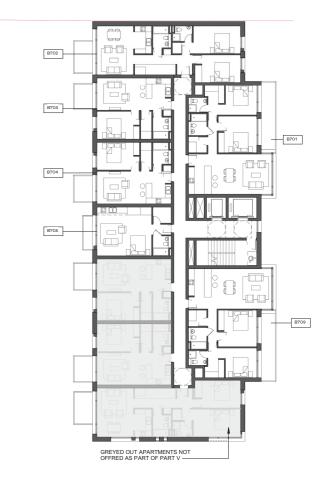


Level 1 - Boulevard

Level 2

Level 3 to 6

Fig. 31 Floor plans of Block B indicating apartments offered for Part V compliance.



Level 7

Note: The apartments shown grey on Level 7 and the apartments on Level 8 do not form part of the Part V provision

4.0 PROPOSED MATERIALS

The materials specified are simple, thoughtful and robust bringing a new dynamic of materials to the Sandyford neighbourhood. The predominant material used within the scheme is brick in an array of shades. The material palette (fig. 35) is designed to create a unified 'neighbourhood' feel, with brick in complementary tones. Visual interest and a sense of individual building identity is created through subtle changes in brick colour from block to block. Brick is used due to its durability, robustness and grounds the scheme within its residential context.

The brick façades work in contrast to the window frames, balustrades, copings and gates which are in tonal greys to tie these elements into the wider material strategy for the scheme. The ground floor of the scheme is generally clad in a glass reinforced concrete (GRC) panelling system finished with a satin charcoal grey colour coating. This offers residents and visitors an element of way-findings through the scheme. The cladding has been introduced at key nodes within the development (balcony fascia and soffits, set-backs ground floor units) due to its robustness and ease of maintenance. The foyer and reception areas are designed as bright and welcoming spaces with glass, metal and brick being used due to their robustness.

At ground floor level, the water-based landscape proposal together with virtual enclosures in polyester powder coated metallic screens 'popping out' of the building envelope, defines the private open space and provides privacy and screening for the ground floor apartments. The material selection has been chosen with care to enhance the soft landscape elements and to create a distinctive neighbourhood within Sandyford. The public and communal amenity spaces provide different character areas for varying age groups in the development. The material palette chosen for the landscaping elements is robust and durable and is described in detail in the landscaping section.

All materials outlined above will help create buildings that resist deterioration over time. The building and open space elements can be easily maintained and managed by the future operators of the scheme.

Details of all materials proposed for buildings, open spaces, paved areas, boundary and retaining walls are described in the following pages and illustrated in the drawings and reports as part of this application.



Fig. 34

CCI image of proposed development seen from Rockbrook Boulevard continuing into Sandyford Central Boulevard

BRICK



BLOCK A - LIGHT RED BRICK

Light coloured mortar joint to match, raked

Image reference: www.olivier.be. KARMA-WF7-MOKKA_6148



BLOCK B - WHITE / SAND BRICK White/sand mortar joint, raked

Image reference: KARMA-White



BLOCK D - LICHT CREY BRICK Light grey / white mortar joints - raked Image reference: KARMA-Grey-VB-WF

RAINSCREEN CLADDING - GLASS REINFORCED CONCRETE PANELING SYSTEM



Code CL-1

Polar White / Gloss finish

Block E/F gable ends. Refer to elevation & finishes drawings. Image references: https://www.rieder.cc

WINDOWS & METALWORK



Code CL-2

Off White / Matt finish

Selected locations. Refer to elevation & finishes drawings



Code CL-3 Ivory / Ferro Light

Balconies generally. Refer to elevation & finishes drawings



Code MW-1

Polyester powder coated finish to aluminium windows, metallic railings & fins in a gloss white finish.

Refer to drawings

Fig. 33 Proposed material palette

Code MW-2

Anodised aluminium in a Satin Silver Clear finish to aluminium windows, spandrel panels and opening sections.

Refer to drawings



Anodised aluminium in a Satin Silver Grey finish to selected windows, railings

Refer to drawings

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BLOCKS C, E, F - MEDIUM DARK GREY BRICK

Light grey mortar joint - raked

Image reference: KARMA Grey-VB-EF



Code CL-4

Liquid Black / Ferro Light

Ground Floor. Refer to elevation & finishes drawings



Code MW-4

Anodised aluminium in a Satin Charcoal Grey finish to selected windows, railings

Refer to drawings

BUILDING MATERIALS 4.1

Materials proposed for the individual blocks are illustrated in the following pages.

For ease of reference, 3D views of the different building blocks are provided along with the proposed material palette and reference images of similar materials, to be read in conjunction with the scaled elevation drawings provided with this planning application.

Details pertaining to the elevational strategy and the rationale for elevational treatment are further elaborated in the Architectural Design Statement as part of this planning application.

BLOCKA

The material palette proposed for block A comprises a pale-red brick as the principal material along its southern elevation, with the internal courtyard (East/West) and part of the elevation facing the Boulevard (North) in a light coloured brick in order to maximise the availability of natural daylight.

As the main structure facing Carmanhall Road (with the objective for a future park), the red brick was considered an appropriate response as a material traditionally associated with residential buildings.

The ground floor hosting the resident amenities feature a toggle-glazed curtain wall system with elements of dark grey backpainted glass to its entrance.

The residential units along the pedestrian link road are clad in a GRC dark grey rainscreen cladding system.

Fig. 35 3D visualisation of proposed Block A with material key and image references









BR_01 Selected Brick or brick panel system with natural tone colour, light colour mortar joint o match raked



BR-02 Selected Brick or brick panel system with white tone colou light colour mortar joint to match, raked



BR-03 Selected Brick or brick panel system with a light grey tone colour, light colour mortar joint to



















CL_02 Glass fibre reinforced concrete panels cladding system with off white colour and matt and textured finish



CL_03 Glass fibre reinforced concrete panels cladding system with lvory colour and matt and textured finish



CL_04 Glass fibre reinforced concrete panels cladding system with liquid black colour

MW-02 Anodized Aluminium frame/spandrel panel with satin silver grey



GL-01 Frameless back painted colour glass



GL-02 Safety glass balustrade sys

4.1 BUILDING MATERIALS - BLOCK B



VIEW



VIEW 02











BR-02 Selected Brick or brick panel system with white tone colour, light colour mortar joint to match, raked



GL-01 Frameless back painted colour glass CL_03 Glass fibre reinforced concrete panels clading system with Ivory colour and matt and textured finish



CL_04 Glass fibre reinforced concrete panels cladding system with liquid black colour and matt and textured finish



MW-02 Anodized Aluminium frame/spandrel panel with satin silver grey

GL-02 Safety (

GL-02 Safety glass balustrade system

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BLOCK B

Located along the Boulevard as a continuation of the existing Rockbrook Phase 1 development, Block B was conceived in a light coloured brick in response to its location in the centre of the proposed scheme.

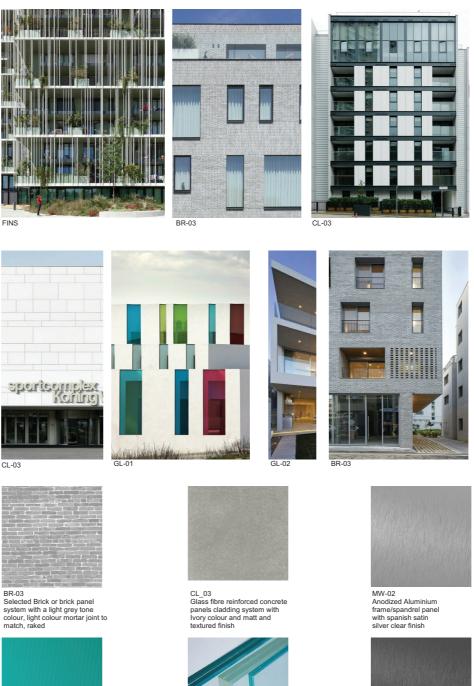
The light coloured walls assist in reflecting natural daylight and sunlight to the surrounding open spaces.

The ground floor comprises of a dark grey coloured GRC rainscreen cladding.

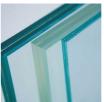
BUILDING MATERIALS - BLOCK C-D 4.1















MW-03 Anodized Aluminium frame/spandrel panel with satin charcoal grey

BLOCK C-D

While the mass of block C is conceived as a continuation of the existing Rockbrook phase 1 development, the part 17 storey Block D provides a clear break in the streetscape, announcing the presence of the Sandyford Central development with main entrance to the resident amenity suite at its base.

A dark brick is proposed for block C as a transition between the Rockbrook phase 1 development and the proposed Block D.

Block D in the other hand is proposed to be treated in a lighter shade of brick with selected indentations clad in a darker shade of GRC rainscreen cladding to emphasise its verticality.

The South elevation facing the pedestrian thoroughfare will feature a metallic cladding system with frameless glass, with metallic fins placed in an apparently "random" pattern to emphasise its verticality in contrast with the repetitive horizontal arrangement of the balconies.

The ground floor level hosting the café and the resident amenities are proposed to be floor to ceiling glazing in a curtain wall system with deep mullions in anodised aluminium.

The proposed rooftop multi-function room will be provided with a floor to ceiling curtain wall system and deep metallic feature fins in a glossy dark grey finish. The external soffit cladding will be designed to provide a sharp edge detail.

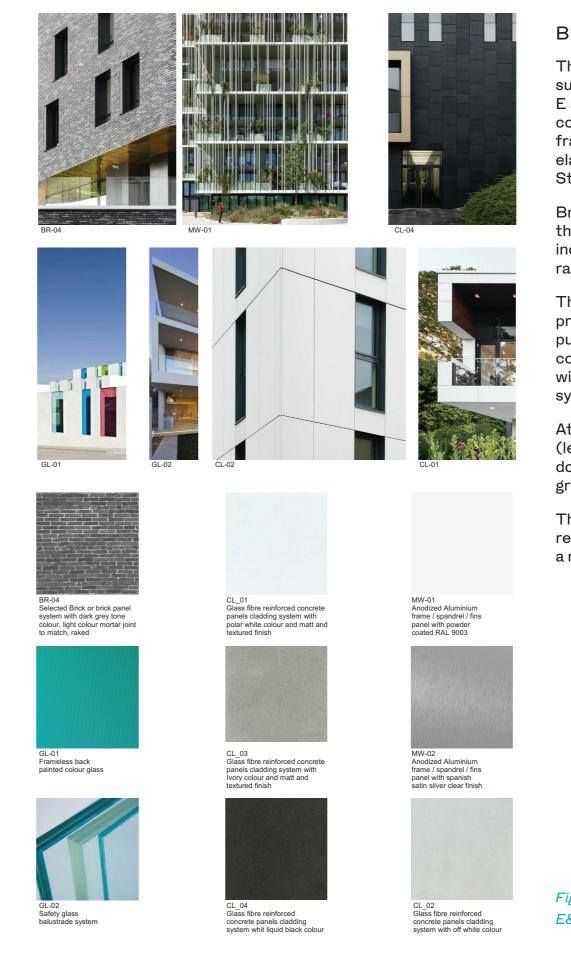
3D visualisation of proposed Blocks Fig. 37 C-D with material key and image references

4.1 BUILDING MATERIALS - BLOCK E & F









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BLOCK E-F

The overall mass and proportions of Block F suggest that the facade treatment for block E and F should avoid a repetitive horizontal composition and be expressed as a solid wall framing the distinctive gables, as further elaborated in the Architectural Design Statement.

Brick in a dark grey colour is proposed for the East and West walls, with recessed indentations clad in a light grey coloured CRC rainscreen.

The proposed gable ends of block E and F provide an opportunity to present the main public spaces with a "special" facade that contrasts with the brick walls and are treated with a high gloss, off-white rainscreen cladding system.

At ground floor level along the Boulevard (levels 1 and 2), the apartments feature a double height GRC cladding system in a dark grey colour to 'stitch' the blocks together.

The private open space for the ground floor residential units is screened by metallic fins in a matching dark grey colour.

BUILDING MATERIALS - BLOCK E & F GABLES & BUILDING ENTRANCES 4.1

The fascia and soffit of the proposed balconies on the South elevation facing Carmanhall Road will be clad in an off-white cladding system and a feature glazed balustrades and fins provided for privacy where required.

The residential block entrance spaces are generally double height spaces with floor to ceiling curtain wall glazing in an anodised aluminium finish.

The walls and soffit framing the entrances are clad in back-painted glass, introducing colour, feature lighting and signage ("branding") to assist in the overall wayfinding strategy.















MW-02 Anodized Aluminium frame / spandrel / fins panel with spanish satin silver clear finish

3D visualisation of block F entrance space with material key and image references

4.2 BUILDING MATERIALS - LANDSCAPING



Figure 60: Cor-ten steel planter edge

Figure 61: Big organic shaped steps and tree

Figure 57: Material reference plan





Figure 58: Cor-ten steel laser cut panels for screening or railing

Main entrances steps



Figure 59: Steps as seating and tree planting



planting

1 Residential courtyards:



Figure 62: Imported grey granite in 3 different shades

Boulevard: 2









Figure 64: Smooth concrete light mix

Figure 65: Exposed aggregate concrete mixes

Public realm



Figure 67: Composition of lighting, trees and seating

Figure 68: Dublin, mature Gleditsia trees and paving as per DCC standards. BSLA project





Figure 63: Raised concrete edge for deeper planting



Figure 66: Raised metal edges for deep planting



Bernard Seymour Landscape Architects

Planting/Materials: Hard Landscape

Division treatment to private terraces & soil mounding strategy for deep planting



Figure 69: Roughen treatment to reduce accessibility



Figure 70: Soil mounting and rocks to screen private terraces in salvaged paving and exposed aggregate concrete



Figure 71: Precast concrete elements for soil mounding & seating

Paving



Figure 72: Paving transition public to private





Figure 73: Long span bespoke concrete paving with light colour pigments



Figure 74: Composition of paving and low scrub type planting to create routes

Bernard Seymour Landscape Architects

Planting/Materials: Soft landscape



Figure 75: Boulevard flowering trees in a simplistic setting



Figure 76: Naturalistic private courtyards



Figure 77: Strips of semi aquatic planting



Figure 78: Composition of smooth ornamental grasses and autumn colour trees



Figure 79: Mix of multistem and single stem trees and herbaceous perennials



Figure 80: Naturalistic planting in raised concrete planters



Figure 81: Planting Palette: proposed mix of native and non native drought tolerant and nectar rich plants through the seasons for visual interest and biodiversity

Fig. 43 Landscape materials: source Bernard Seymour Landscape Architects



Bernard Seymour Landscape Architects

4.3 BOUNDARY TREATMENT

Bernard Seymour Landscape Architects

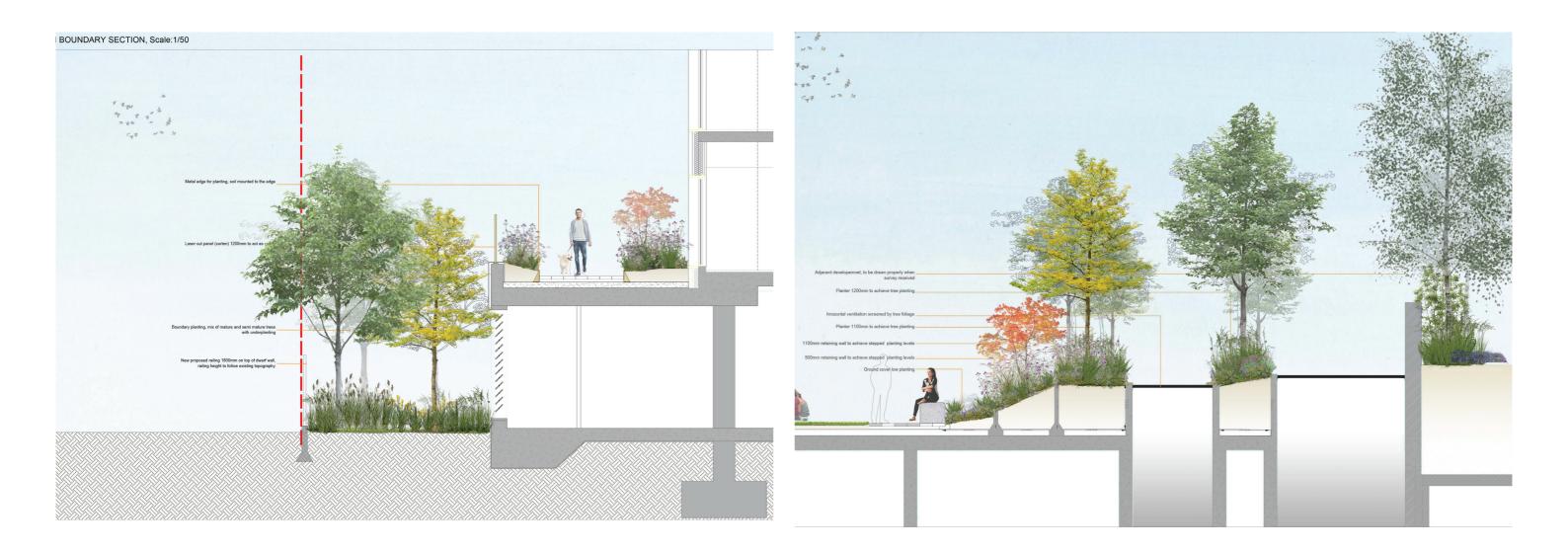


Fig. 44 Proposed boundary treatment: Eastern boundary. Source Bernard Seymour Landscape Architects Fig. 45 Proposed boundary treatment: Western boundary. Source Bernard Seymour Landscape Architects

5.0 SITE LAYOUT

A scaled site layout plan drawing showing existing and permitted residential blocks showing separation distances between blocks and between opposing windows and balconies is provided as part of this application.

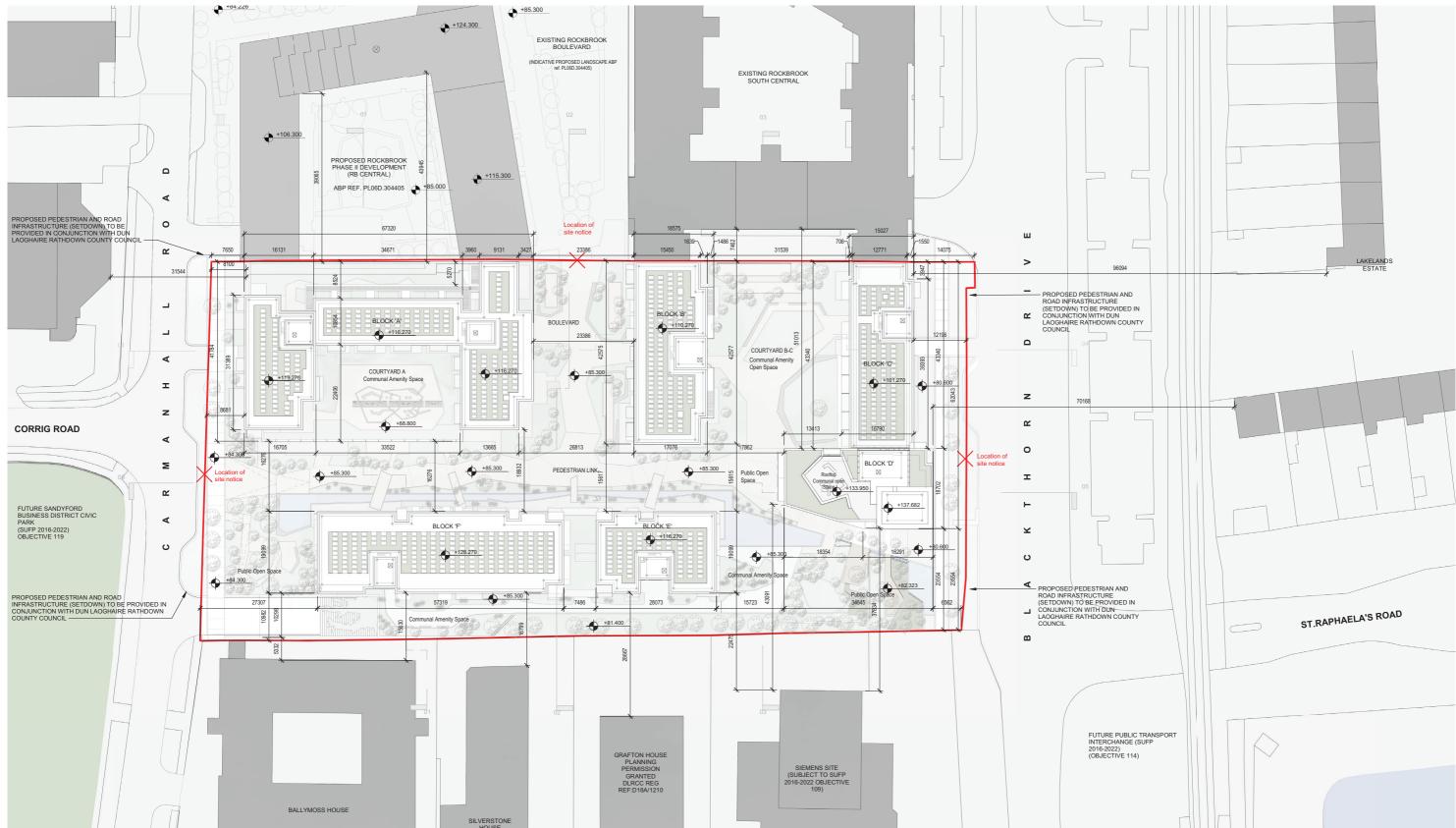
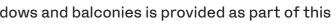


Fig. 46 Extract from proposed site plan



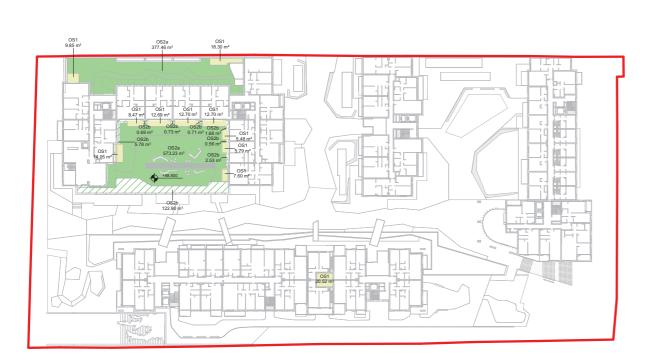
6.0 **OPEN SPACE**

A scaled plan and schedule of proposed open spaces within the site clearly delineating public, semi-private and private spaces is provided as part of this application





1 OO Level O Lower Ground O.S.



OPEN SPACE SCHEDULE						
Name	Level	Comments	Area			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	25.4 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	16.4 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	9.7 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	5.9 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	23.9 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	9.4 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	5.0 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	5.0 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	15.7 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	20.2 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	31.2 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	34.5 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	49.8 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	42.3 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	24.9 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	29.8 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	16.5 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	21.3 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	9.9 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	14.6 m ²			
OS1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	23.2 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	19.1 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	20.2 m ²			
0S1	01 - BOULEVARD - GRD. FLOOR	Private Open Space	25.2 m ²			
0S1	02 SECOND FLOOR	Private Open Space	18.3 m ²			
0S1	02 SECOND FLOOR	Private Open Space	9.8 m ²			
0S1	02 SECOND FLOOR	Private Open Space	8.5 m ²			
0S1	02 SECOND FLOOR	Private Open Space	12.7 m ²			
OS1	02 SECOND FLOOR	Private Open Space	12.7 m ²			
OS1	02 SECOND FLOOR	Private Open Space	12.7 m ²			
OS1	02 SECOND FLOOR	Private Open Space	5.5 m ²			
OS1	02 SECOND FLOOR	Private Open Space	5.8 m ²			
OS1	02 SECOND FLOOR	Private Open Space	7.6 m ²			
OS1	02 SECOND FLOOR	Private Open Space	14.0 m ²			
OS1	02 SECOND FLOOR	Private Open Space	20.5 m ²			
OS1:	35		627.2 m ²			

(*) NOTE: Excludes balconies on upper levels. Refer to Housing Quality Assessment for Private open space figure

 US30
 01
 BOULE VARD - GRD. FLOOR

 US20
 02
 SECOND FLOOR

 US20
 02
 SECOND FLOOR

 US20
 02
 SECOND FLOOR

 US20
 OS2b: 26
 OS3
 00 - LOWER GROUND

 OS3
 01 - BOULEVARD - GRD. FLOOR

 OS3:
 2
 OS4 01 - BOULEVARD - GRD. FLOOR C OS4: 1

OP

Name Level

 052a
 01 - BOULEVARD - GRD, FLOOR

 052a
 02 SECOND FLOOR

 052a
 17 - SEVENTEENTH FLOOR

 0S2a
 12

01 - BOULEVARD - GRD. FL 01 - BOULEVARD - GRD. FL 01 - BOULEVARD - GRD. FL

3 02 - Level 2 O.S.





2 O1 Level 1 Boulevard Crd. Floor O.S.

4 017 - Level 17 O.S.

Comments	Area
Continonia	Alta
Communal Amenity Open Space	1058.1 m ²
Communal Amenity Open Space	1724.5 m ²
Communal Amenity Open Space	175.3 m ²
Communal Amenity Open Space	132.4 m ²
Communal Amenity Open Space	139.0 m ²
communal Amenity Open Space	47.6 m ²
Communal Amenity Open Space	38.5 m ²
communal Amenity Open Space	140.1 m ²
Communal Amenity Open Space	84.2 m ²
communal Amenity Open Space	573.2 m ²
communal Amenity Open Space	377.5 m ²
communal Amenity Open Space	270.3 m ²
	4760.6 m ²
Other Open Space	421.8 m ²
Other Open Space	20.4 m ²
Other Open Space	29.9 m ²
Other Open Space	16.5 m ²
Other Open Space	15.9 m ²
ther Open Space	52.1 m ²
Other Open Space	27.8 m ²
Other Open Space	11.9 m ²
ther Open Space	40.7 m ²
ther Open Space	49.5 m ²
Other Open Space	10.1 m ²
ther Open Space	7.1 m ²
Other Open Space	6.5 m ²
Other Open Space	10.2 m ²
ther Open Space	285.6 m ²
Other Open Space	4.1 m ²
Other Open Space	9.4 m ²
Other Open Space	5.8 m ²
Other Open Space	0.7 m ²
Other Open Space	0.7 m ²
Other Open Space	0.7 m ²
Other Open Space	1.7 m ²
Other Open Space	0.6 m ²
Other Open Space	2.5 m ²
Other Open Space	122.9 m ²
Other Open Space	39.4 m ²
	1194.5 m ²
Public Open Space	1149.4 m ²
Public Open Space	2967.3 m ²
	4116.7 m ²
Creche	238.8 m ²
	238.8 m ²



Private Open Space (*)

Public Open Space

DETAILED PHASING PLAN 7.0

A detailed phasing plan for the proposed development is provided as part of this application

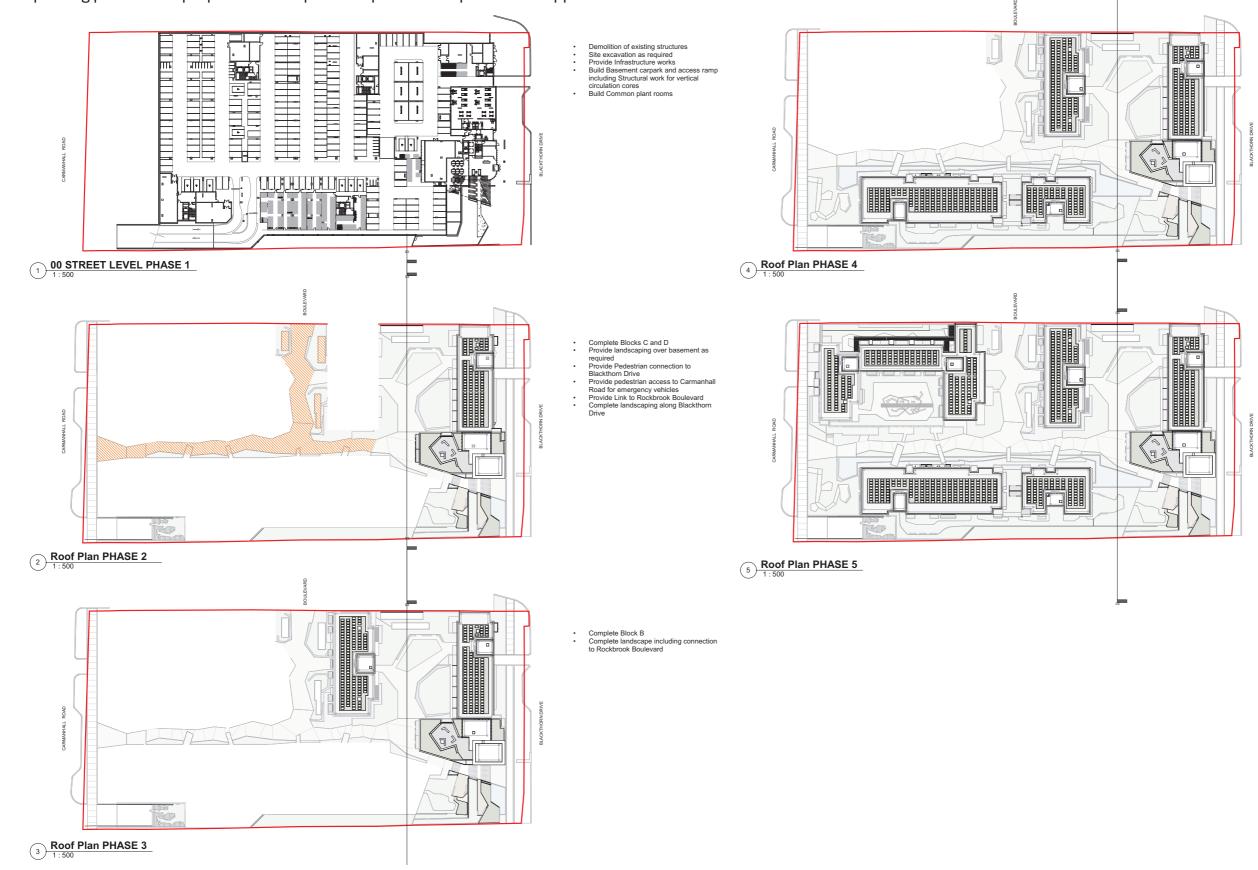


Fig. 47 Proposed phasing plan

PLEASE REFET TO BERNARD SEYMOUR LANDSCAPE ARCHITECTS DRAWINGS AI REPORT FOR ALL INFORMATION ON LANDSCAPE.

Complete Blocks E and F Complete landscape work including Boulevard and Public Open Space on Carmanhall Road Landscaping along Carmanhall Road

Complete Block A Complete landscape