

4906-4958 MAIN STREET- REZONING SUBMISSION May 19th, 2022

CIVIC ADDRESS:	4906-4958 Main Street
LEGAL ADDRESS:	Lots 1, 2, 3, 4 and 5, All except parts in Plan 4481,
	All of Block 5 District Lot 637 Group 1 New Westminster District Plan 1192
EXISTING ZONING:	RT-2
PROPOSED ZONING:	CD-1
PROPOSED USE:	Commercial & Multi-Family Residential (100% Secured Market Rental)

DRAWING LIST

ARCHITECTURAL

A 0.00 A 0.01 A 0.02 A 0.03 A 0.04 A 0.05 A 0.06 A 0.07 A 0.08	COVER & DRAWING L INTRODUCTION CONTEXT PHOTOS DESIGN RATIONALE PROJECT DATA TOPO SURVEY BUILDING GRADES SITE PLAN SUSTAINABILITY STR
A 1.00 A 1.01 A 1.02	STREETSCAPES SHADOW DIAGRAMS SHADOW DIAGRAMS
A 2.00 A 2.01 A 2.02 A 2.03 A 2.04 A 2.05 A 2.06 A 2.07 A 2.08	PARKING P2 FLOOR F PARKING P1 FLOOR F GROUND FLOOR PLAN 3RD AND 4TH FLOOR 5TH FLOOR PLAN 6TH FLOOR PLAN ROOF PLAN_ROOF PLAN_
A 3.00 A 3.01 A 3.02 A 3.03	WEST ELEVATION (M/ EAST ELEVATION (LAI SOUTH ELEVATION NORTH ELEVATION (E
A 4.00	BUILDING SECTION
A 5.00	PERSPECTIVES
LANDSCAPE	
L1.01 L1.02	GROUND LEVEL - LAN LEVEL TWO AMENITY

FSR OVERLAYS

FSR (1)	GROUND FLOOR FS
FSR (2)	2ND FLOOR FSR O
FSR (3)	3RD & 4TH FLOOR F
FSR (4)	5TH FLOOR FSR O\
FSR (5)	6TH FLOOR FSR O\
FSR (6)	ROOF FSR OVERLA

PROJECT TEAM

OWNER	VORDEN DE
ARCHITECT	W.T. LEUNG
LANDSCAPE	BEARMARK
GEOTECHNICAL	GEOPACIFIC
SURVEY	J.C. TAM AN
SUSTAINABILITY	RECOLLECT
ARBORIST	DAVEY RESO
QUANTITY SURVEYOR	BTY GROUP
CIVIL	BINNIE - CIV

LIST

RATEGY

r plan R plan Lan

R PLAN

ALL

MAIN STREET) ANE)

(E.33RD AVENUE)

ANDSCAPE PLAN TY DECK - LANDSCAPE PLAN

FSR OVERLAY OVERLAY R FSR OVERLAY OVERLAY OVERLAY AY

EVELOPMENT CORP.

GARCHITECTS, INC.

K DESIGN AND LANDSCAPE LTD.

IC GEOTECHNICAL ENGINEERS

ND ASSOCIATES

TIVE CONSULTING INC.

SOURCE GROUP

IVIL ENGINEERING CONSULTANTS



Suite 300, 973 West Broadway, Vancouver, British Columbia, Canada, V52 1K3 Telephone 604 736-9711 Facsimile 604 736-7991

ISSUE/REVISION 1 19/5/22 ISSUED FOR REZONING

PROJECT

4906 - 4958 MAIN STREET

COVER & **DRAWING LIST**

JOB NO.	19-06
DRAWN	IS
DATE	MAY 19th, 2022
SCALE	
CHECKED	WTL

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DRAWING NO. :





Overview

The subject site is located at the southeast corner of Main Street and East 33rd Avenue within the Riley Park-Little Mountain neighbourhood. The site is currently zoned RT-2.

The site's context is a mix of commercial and multi-family residential buildings along the Main Street corridor, with heights ranging from 2- to 5-storeys. South and east of the site are predominantly 1- to 2storey single-family dwellings. General Brock Elementary School is half a block north across E33rd Avenue; Riley Park, Queen Elizabeth Park and Hillcrest Community Centre are two blocks west across Main Street. The site is at the southern gateway to the South Main / Mount Pleasant commercial district.



Rezoning Intent

The proposal is to rezone the site from RT-1 to CD-1 to permit the development of a 6-storey mixed commercial / residential market rental building. This rezoning is being made under the Affordable Housing Choices Interim Rezoning Policy, which allows consideration of buildings up to six storeys for sites fronting an arterial on Translink's Frequent Transit Network. The site is also within 500m of a C-2 zone (ie. a local shopping district) and is easily accessible to public transit.

The development includes ground level commercial spaces along the Main Street and E33rd Avenue frontages along with 72 market rental housing units on five storeys above. Two levels of underground parking providing 75 parking spaces (30 Commercial / 45 Residential) are proposed. No parking reduction is proposed. The total floor area proposed is 5,390 m² [58,023 ft²] for a Floor Space Ratio of 3.14.

Of the 72 units proposed, 36% are family-sized units. The unit breakdown is: (22) Studios, (24) 1bedroom, (14) 2-bedrooms, and (12) 3-bedrooms. This exceeds the target set in the City's Housing Mix Policy for Rezonings.

A 2.44m (8 ft.) setback is provided along Main Street. Along E33rd Avenue, a 2.13m (7 ft.) dedication is provided. These provide the necessary 5.5m (18 ft.) statutory right-of-ways from back of existing curb for road widening and sidewalk & boulevard improvements. Access to off-street parking, loading, garbage & recycling collection, and utilities will be from the rear lane. A 1.0m (3'-3") landscaped setback is provided along the rear lane as well as the eastern portions of the south property line.

The development will be designed and constructed to comply with the Low Emissions Green Buildings requirements of the Green Buildings Policy for Rezoning. Sustainable strategies include a balanced window-wall ratio, high performance building envelope, low-flow plumbing fixtures, direct ventilation to all occupant spaces, low-emitting indoor materials, and an integrated rainwater management plan among others. Sustainable performance of the building will be confirmed via energy modeling and a Zero Emissions Building Plan. Embodied emissions and refrigerant emissions for the building will be calculated and reported. Airtightness testing and enhanced commissioning of mechanical & electrical systems will be conducted during construction.



Canada,

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PROJECT

4906 - 4958 MAIN STREET

INTRODUCTION

JOB NO.	19-06
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LANE LOOKING SOUTH/ WEST

E.33RD AVE LOOKING SOUTH



MAIN STREET LOOKING NORTH/ EAST



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PROJECT

4906 - 4958 MAIN STREET

CONTEXT PHOTOS

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DRAWING NO. :





Site & Context The subject site is located at the southeast corner of Main Street and East 33rd Avenue within the Riley Park-Little Mountain neighbourhood. The site's context is a mix of commercial and multi-family residential buildings along the Main Street corridor, with heights ranging from 2- to 5-storeys. South and east of the site are predominantly 1- to 2-storey single-family dwellings.

Proposed Building within Context







Massing & Setbacks

A 6-storey building is proposed. Massing setbacks are provided:

- 8 ft. setback along Main Street for sidewalk & boulevard improvements;
- 7 ft. dedication along E33rd for road widening;
- 15 ft. setback along east property line (rear lane) per C-2 design guidelines;
- 3 ft. landscaped setbacks along east property line and eastern end of the south property line;
- At southwest corner: 24 ft. setback from Main Street & 20 ft. setback from south property line to align with and provide relief to adjacent building. A southwest facing corner plaza is created as public realm.
- 20 ft. setback from south property line on 5^{th} & 6^{th} floors to create a transition of scale southwards.

Shaping & Programming

Top floor is setback to create a 5-storey street wall. Setting back the top floor minimizes shadowing of the northern sidewalk along E33rd at vernal and autumnal equinoxes. Massing at southwest corner is further shaped to ease the transition of scale towards the south.

Articulation



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4906 - 4958

PROJECT

MAIN STREET

DESIGN RATIONALE

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Open balconies are introduced to articulate the building volume and breakdown it's apparent bulk. Balconies fronting Main Street are featured in a framed grid of contrasting colour to emphasize this primary façade. Movable wood screens are set within the framed grid to create play and interest along the Main Street corridor.

SITE INFORMATION

Civic Address	4906 - 4958 Main Street, Vancouver, BC
Legal Description	Lots 1, 2, 3, 4 and 5, All except parts in Plan 4481,
	All of Block 5 District Lot 637 Group 1 New Westminster District Plan 1192
Zoning	Existing: RT-2
	Proposed: CD-1
Use	Existing: Residential (Multi-Family & Single-Family Detached)
	Proposed: Commercial & Multi-Family Residential (100% Secured Market Rental)
Lot Size	18,486.7 SF 1,717.5 SF
Density	Permitted: 3.5 FSR
	Proposed: 3.14 FSR (Net)
Building Height	Permitted: 6-Storeys
	Proposed: 6-Storeys @ 70.5 ft [21.5m] From Interpolated Base Surface

AREA SUMMARY

	Gross Area (SF)	Gross Area (SM)	Exclusions (SF)	Exclusion (SM)	Net Area (SF)	Net Area (SM)
Ground Floor - Commercial	8,934.90 SF	830.05 SM	1,039.00 SF	96.52 SM	7,895.90 SF	733.53 SM
Ground Floor - Residential	1,361.12 SF	126.45 SM	0.00 SF	0.00 SM	1,361.12 SF	126.45 SM
2nd Floor	11,020.05 SF	1,023.76 SM	1,143.70 SF	106.25 SM	9,876.35 SF	917.51 SM
3rd Floor	10,761.43 SF	999.74 SM	229.50 SF	21.32 SM	10,531.93 SF	978.42 SM
4th Floor	10,761.43 SF	999.74 SM	229.50 SF	21.32 SM	10,531.93 SF	978.42 SM
5th Floor	9,323.23 SF	866.13 SM	229.40 SF	21.31 SM	9,093.83 SF	844.82 SM
6th Floor	8,595.24 SF	798.50 SM	115.20 SF	10.70 SM	8,480.04 SF	787.80 SM
Roof	251.87 SF	23.40 SM	0.00 SF	0.00 SM	251.87 SF	23.40 SF
Total Building Area	61,009.27 SF	5,667.76 SM	2,986.30 SF	277.43 SM	58,022.97 SF	5,390.33 SM
Proposed FSR	3.30 Gross				3.14 Net	

RESIDENTIAL UNIT SUMMARY

Unit Type	STUDIO	1-BR	2-BR	3-BR	
Ground Floor	0	0	0	0	
2nd Floor	6	5	1	3	
3rd Floor	5	6	2	3	
4th Floor	5	6	2	3	
5th Floor	5	4	4	1	
6th Floor	1	3	5	2	
Total Units	22	24	14	12	72
	31%	33%	19%	17%	

AREA SUMMARY

	Gross Area (SF)
Ground Floor - Commercial	9,882 SF
Ground Floor - Residential	1,303 SF
2nd Floor	10,971 SF
3rd Floor	10,971 SF
4th Floor	10,971 SF
5th Floor	9,391 SF
6th Floor	8,612 SF
Gross Building Area	62,101 SF

Proposed FSR (Gross)

UNIT BREAKDOWN

	Studio	1-BR	2-BR	3-BR
Ground Floor	-	-	-	-
2nd Floor	6	5	2	2
3rd Floor	5	6	3	2
4th Floor	5	6	3	2
5th Floor	5	4	4	1
6th Floor	1	3	5	2
Total Units	22	24	17	9
	31%	33%	24%	13%

3.36 FSR

Commercial Parking Stalls Retail	as per VBBL Parking By-Law 4.2.5.1	required / allowed	proposed
1.0 Stall/100 sqm up to 300 sqm +1.0 Stall/50 sqm after 300 sqm	5,850.90 sqft / 543.55 sqm	8 stalls	8 stall
Commercial Parking Stalls Restaurant	as per VBBL Parking By-Law 4.2.5.11		
1.0 Stall/50 sqm up to 100 sqm + 1.0 Stall/10 sqm after 100 sqm	3.083.60 saft / 286.47 sam	21 stalls	21 stall
Commercial Parking Stalls Total		29 stalls	29 stalls
			20 01411
Parking Stall Summary - Commercial Regular Car Stalls		required / allowed	proposed 18 stalls
Small Car Stalls (max. 25%)		7 (max.)	10 stalls
H/C Stalls VPBL 4.8.4 (b) 1 stall/first 500sqm + 0.4 stall/each add. 1,000 sqm	830.05 sqm	1 (min.)	1 stalls
Total Number of Actual Parking Stalls			29 stalls
Bonus Parking Stalls for HC Stalls provided as per VPB 4.1.15 Total Number of Proposed Parking Stalls			1 stalls 30 stalls
· · ·			
Residential Parking Stalls 1.0 Stall/125 sqm, max = total min.+0.5/ Dwelling Unit	as per VBBL Parking By-Law 4.5 B 72.0 units	required / allowed 39 stalls	proposed 42 stalls
Residential Parking Stalls Total			42 stalls
Parking Stall Summary - Residential		required / allowed	proposec
Regular Car Stalls			27 stalls
Small Car Stalls (max. 25%)		11 (max.)	12 stalls
H/C Stalls VPBL 4.8.4 (a) 1 stall/first 7 units + 0.034 stall/each add. unit	72.0 units	3 (min.)	3 stalls
Bonus Parking Stalls for HC Stalls provided as per VPB 4.1.15			3 stalls
Total Number of Proposed Parking Stalls			45 stalls
As per VPBL 6.2.5.1 1 space/340 sqm	8,934.90 sqft / 830.05 sqm	0 - t-ll-	propodot
		2 stalls	3 stalls
Commercial Bicycle Stalls Class B		z stails	3 stalls
Commercial Bicycle Stalls Class B	8 034 90 saft / 830 05 sam	z stalls required / allowed stalls 6 stalls	3 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm	8,934.90 sqft / 830.05 sqm	z stalls required / allowed stalls 6 stalls	3 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A	8,934.90 sqft / 830.05 sqm	2 stalls required / allowed stalls 6 stalls required / allowed stalls	3 stalls proposed stalls 6 stalls proposed stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units	2 stans required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls	3 stalls proposed stalls 6 stalls proposed stalls 72 stalls 61 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.9 min 5% oversized spaces	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units	2 stans required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 7 stalls	3 stalls proposed stalls 6 stalls proposed stalls 72 stalls 61 stalls (7 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.9 min 5% oversized spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class A	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units	2 stails required / allowed stalls 6 stails required / allowed stalls required / allowed stalls 72 stalls 60 stails 7 stalls 40 stalls max. 132 stalls	3 stalls proposed stalls for stalls proposed stalls 72 stalls (7 stalls (39 stalls) 133 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.9 min 5% oversized spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class A Residential Bicycle Stalls Class B	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units	2 stans required / allowed stalls 6 stalls required / allowed stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls	3 stalls proposed stalls proposed stalls 72 stalls 61 stalls (39 stalls) 133 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1, min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 .2.5 -spaces/unit min 65 sqm As per VPBL 6.3.9 min 5% oversized spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B Residential Bicycle Stalls Class B As per VPBL 6.2.1.2, min 2 of 2 stalls for develop. with a min. of 20 units	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units	2 stails required / allowed stalls 6 stails required / allowed stalls 72 stails 60 stails 7 stalls 40 stalls max. 132 stalls required / allowed stalls	3 stalls proposed stalls for stalls proposed stalls 72 stalls (7 stalls (39 stalls) 133 stalls proposed stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 min 5% oversized spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , min 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2 .1 additional class B for each additional 20 units	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units	2 stails required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls	3 stalls proposed stalls 6 stalls proposed stalls 72 stalls 61 stalls (7 stalls (39 stalls) 133 stalls proposed stalls 2 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , min 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2 , 1 additional class B for each additional 20 units	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stails required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 2 stalls 3 stalls	3 stalls proposed stalls 6 stalls proposed stalls 72 stalls 61 stalls (39 stalls) 133 stalls proposed stalls 2 stalls 4 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1, min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2, min 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2, 1 additional class B for each additional 20 units Total Residential Bicycle Stalls Class B	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stalls required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 3 stalls 5 stalls	3 stalls proposed stalls for stalls proposed stalls 72 stalls (39 stalls) 133 stalls proposed stalls 2 stalls 5 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.9 min 5% oversized spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , 1 additional class B for each additional 20 units Total Residential Bicycle Stalls Class B LOADING SPACE ANALYSIS VPBL SECTION 5 5.2.1	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stalls required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 5 stalls 5 stalls	3 stall: proposed stall: proposed stall: proposed stall: 72 stall: 61 stall: (39 stalls) 133 stall: proposed stall: 2 stall: 5 stall:
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , min 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2 , 1 additional class B for each additional 20 units Total Residential Bicycle Stalls Class B LOADING SPACE ANALYSIS VPBL SECTION 5 5.2.1 Class A & B Loading Space Commercial	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	required / allowed stalls required / allowed stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 5 stalls 5 stalls	3 stall: proposed stall: proposed stall: proposed stall: 61 stall: (7 stalls (39 stalls) 133 stall: proposed stall: 2 stall: 5 stall: 5 stall:
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , 1 additional class B for each additional 20 units Total Residential Bicycle Stalls Class B LOADING SPACE ANALYSIS VPBL SECTION 5 5.2.1 Class A & B Loading Space Commercial Class A	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stails required / allowed stalls 6 stalls required / allowed stalls 72 stalls 60 stalls 73 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 5 stalls 5 stalls required / allowed no requirement	3 stalls proposed stalls for stalls proposed stalls 72 stalls (73 stalls (39 stalls) 133 stalls proposed stalls 2 stalls 5 stalls 5 stalls 13 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 -1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , 1 additional class B for each additional 20 units As per VPBL 6.2.1.2 , 1 additional class B COADING SPACE ANALYSIS VPBL SECTION 5 5.2.1 Class A & B Loading Space Commercial Class B: As per VPBL 5.2.5 1 space/ 465sqm + 1 space/1860 sqm + 1 space/2325sqm	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stalls required / allowed stalls required / allowed stalls required / allowed stalls required / allowed stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls required / allowed stalls 2 stalls 3 stalls 3 stalls 5 stalls 3 stalls 5 stall	3 stalls proposed stalls f 6 stalls proposed stalls 72 stalls (7 stalls (39 stalls) 133 stalls proposed stalls 2 stalls 5 stalls 5 stalls
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1, min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2.1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2, imin 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2, imin 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2, imin 2 of 2 stalls for develop. with a min. of 20 units Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2, imin 2 of 2 stalls for develop. with a min. of 20 units Total Residential Bicycle Stalls Class B LOADING SPACE ANALYSIS VPBL SECTION 5 5.2.1 Class A & B Loading Space Commercial Class A Class B: As per VPBL 5.2.5 1 space/ 465sqm + 1 space/1860 sqm + 1 space/2325sqm Total Commercial Stalls Class A & B	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stalls required / allowed stalls required / allowed stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 5 stalls required / allowed no requirement 2 stalls	3 stalls proposed stalls for stal
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1, min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 2.5 -spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2, nin 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2, 1 additional class B for each additional 20 units As per VPBL 6.2.1.2, 1 additional class B for each additional 20 units Total Residential Bicycle Stalls Class B LOADING SPACE ANALYSIS VPBL SECTION 5 5.2.1 Class A & B Loading Space Commercial Class A Class B: As per VPBL 5.2.5 1 space/ 465sqm + 1 space/1860 sqm + 1 space/2325sqm Total Commercial Stalls Class A & B Class B Loading Space Residential	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units	2 stalls required / allowed stalls required / allowed stalls required / allowed stalls 72 stalls 60 stalls 73 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 5 stalls required / allowed no requirement 2 stalls	3 stalls proposed stalls proposed stalls for stalls 72 stalls (73 stalls (39 stalls) 133 stalls proposed stalls 2 stalls 5 stalls 5 stalls 1 stalls 2 stalls 2 stalls 2 stalls 2 stalls 2 stalls 2 stalls 3 stalls 5 stalls 5 stalls 2 stalls 2 stalls 5 stalls 2 stalls 5 stalls 7
Commercial Bicycle Stalls Class B As per VPBL 6.2.5.1 , min 6 spaces for a min of 1000 sqm Residential Bicycle Stalls Class A As per VPBL 6.2.1.2 · 1.5 spaces/ unit under 65 sqm As per VPBL 6.2.1.2 · 5 · spaces/unit min 65 sqm As per VPBL 6.3.13 max.30% vertical spaces As per VPBL 6.3.13 max.30% vertical spaces Total Residential Bicycle Stalls Class B As per VPBL 6.2.1.2 , nin 2 of 2 stalls for develop. with a min. of 20 units As per VPBL 6.2.1.2 , 1 additional class B for each additional 20 units Total Residential Bicycle Stalls Class B LOADING SPACE ANALYSIS VPBL SECTION 5 5.2.1 Class A & B Loading Space Commercial Class A Class B: As per VPBL 5.2.5 1 space/ 465sqm + 1 space/1860 sqm + 1 space/2325sqm Total Class A & B Class B Loading Space Residential As per VPBL 5.2.1 No requirement for less than 100 dweling units.	8,934.90 sqft / 830.05 sqm 48.0 units 24.0 units 20.0 units 52.0 units 52.0 units 20.0 units	2 stalls required / allowed stalls fequired / allowed stalls required / allowed stalls 72 stalls 60 stalls 7 stalls 40 stalls max. 132 stalls required / allowed stalls 2 stalls 3 stalls 5 stalls required / allowed no requirement 2 stalls 0 stalls 0 stalls	3 stalls proposed stalls proposed stalls f 5 stalls f 2 stalls f 3 stalls f 3 stalls f 3 stalls proposed stalls 2 stalls f 5 stalls proposed f 1 stalls f 5 stalls f 5 stalls f 5 stalls f 5 stalls f 5 stalls f 5 stalls f 6 stalls f 7 stall



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PROJECT

4906 - 4958 MAIN STREET

PROJECT DATA

JOB NO.	19-06
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DATE	MAY 19th, 2022
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TOPO SURVEY

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	PROJECT 4906 - 4958 MAIN STREET
ATTENTION <u>TIONS</u> SHOWN ON THIS PLAN IN <u>METRES</u> BASED ON GVRD (ISSUED NOVEMBER 30, 2018). SIONS ARE ALSO IN <u>METRES</u> .	BUILDING GRADES
SERVICES SCALE: 1:400 DWG. NO. BG-2021-00205 SHEET 1 OF 1 REVISION:	JOB NO. 19-06 DRAWN IS DATE MAY 19th, 2022 SCALE
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PROJECT 4906 - 4958 MAIN STREET

SITE PLAN

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SUSTAINABILITY STRATEGY



RECOLLECTIVE

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be completed in accordance with ASHRAE Guideline 0-2005 and 1.1-2007. The Owner has provided a

for the building. The Owner has provided a commitment letter for the following sustainability requirements. The

minimize CO2e emissions. The Owner has provided a commitment letter for the following sustainability requirements. The letter is included in Appendix 5.

B.6.2 – Embodied Emissions

Building PathFinder was used to calculate the preliminary embodied emissions for the project. The Life Cycle Assessment (LCA) boundary accounts for cradle-to-grave impacts. The LCA includes systems identified in the Green Building Policy for Rezoning – Process and Requirements. A building lifetime of 60 years is assumed. The following table shows the LCA inputs:

Location	Location	4906 Main 9	St, V 4906dMai n BC , Vancouver, BC	
Building Type Building Type Residential, CorResideati8b@iommercial Podium				
Building Life E	Beitding/life	Fénertarscv	60 years	

banang ene experiendente	capycanicy objects			
Drawings Refer Onzed ngs Re	៤វិនិភិដិឈឺ៖- 07 490 8022584407i#\$0<u>6</u>C4958pttBia rSt_Concept Plans			
	2022-04-07 4908022584403in490@E49688ibhain St_Elevations			
Structural Systemuctural SystemuL1:Concrete,P0241360Moomete, L2-L6:Wood				
Window-to-Wall/Radiuw-to-Wall/Ratio 45%				
Windows Windows	Double/triple glozed/with placed with placed uninum frame			

Based on an area-weighted calculation for each construction type (concrete vs wood), the average embodied carbon of the whole building ranges from 150 to 160 kgCO2eq/m2.

Appendix 3 includes the embodied emissions calculation report for the building.

B.7 – Verified Direct Ventilation

The ventilation system will be designed to provide fresh outdoor air directly to all occupiable spaces in the quantities defined by code. Heat Recovery Ventilators (HRVs) will be included in the HVAC design. The Owner has provided a commitment letter for the following sustainability requirements. The letter is included in

Background

M33 will be designed and constructed to meet the Low Emissions Green Buildings requirements of the City of Vancouver Green Buildings Policy for Rezoning. Documentation for each of the sustainability criteria is provided as identified in the Green Buildings Policy for Rezoning - Process and Requirements (Amended June 14, 2019).

B.1 - LEED:

The project is more than 50% residential; therefore, LEED Gold is not required for the project.

B.2 – Energy Performance Limits:

The proposed design employs the following energy conservation measures to meet the performance limits of the proposed design employs the following
 the rezoning policy.
 High performance building envelope

- Energy recovery with 75% sensible & latent efficiency
 Low flow fixtures

The preliminary Zero Emissions Building Plan (ZEBP) Energy Checklist is provided in Appendix 1. This was completed by the project energy modeller and shows that the project meets the performance limits for energy use, heat loss, and greenhouse gas emissions, together with key inputs.

Desferments	Building Tune	TEDI	TEUI	GHGI
renormance	building Type	(kwh/m²/yr)	(kwh/m²/yr)	(kCO2e/m2/yr)
	Residential	15	100	5
Rezoning Requirement	Retail	21	170	3
	Restaurant	35% below current VBBL		
	Residential	11.5	99.9	3.6
Proposed Building	Retail	17.5	149	1.9
	Restaurant	Will meet 35% be	low current VBBL; Y	es, strategies TBD
		Pass	Pass	Pass

Also, a preliminary energy model report including modeling parameters is provided in Appendix 2.

B.3 – Airtightness Testing

Whole-building airtightness for the building will be tested and reported, and the building will be designed and constructed to meet an air-leakage target of 2.0 L/s⁺m2 @75 Pa. Airtightness of suites will be designed, tested and reported to comply with a target of 1.2 L/s⁺m2 @50 Pa. The Owner has provided a commitment letter for the following sustainability requirements. The letter is included in Appendix 5.

B.4 – Enhanced Commissioning

Advanced commissioning of mechanical and electrical systems will be conducted to ensure the energy savings will remain with the project over time. An enhanced commissioning process for the building energy systems will

RECOLLECTIVE

4

RECOLLECTIVE

B.8 – Low-Emitting Materials

The project will aim to maximize the quality of the indoor environment for building occupants by using low The project will also be made and the quark of the model environment of balance occupants of young low emitting interior materials by meeting the content requirements of Green Seal, Green Label, Green Label Plus, FloorScore and SCAQMD Rules. The Owner has provided a commitment letter for the following sustainability requirements. The letter is included in Appendix 5.

B.9 – Indoor Air Quality Testing

The project will employ air quality management strategies through construction. This will be coordinated through an Indoor Air Quality (IAQ) management plan and executed by the construction team. The plan will include IAQ testing for formalehyde, particulates, ozone, total volatile organic compounds, and carbon monoxide prior to occupancy. Results will be reported to the City of Vancouver. The Owner has provided a commitment letter for the following sustainability requirements. The letter is included in Appendix 5.

B.10 – Integrated Rainwater Management and Green Infrastructure

Binnie prepared an Integrated Rainwater Management Plan for this site. The plan is prepared in accordance with the City Wide Integrated Rainwater Management Plan and Rainwater Bulletin criteria. Integrated Rainwater Management Plan (IRMP) is included in Appendix 4. The plan includes measures to address the rainwater management criteria including:

- Volume Reduction
- Water Release Rate
 Water Quality Treatment

B.11 – Resilient Drinking Water Access

A potable water fountain will be provided for the building. These water fountains will be easily accessible to all building occupants. The Owner has provided a commitment letter for the following sustainability requirer The letter is included in Appendix 5.

Appendices

- Appendix 1 ZEBP Energy Checklist
- Appendix 2 Energy Model Inputs
 Appendix 3 Preliminary Embodied En
- Appendix 4 IRMP
- Appendix 5 Commitment Letter form the Owne

SUSTAINABILITY STRATEGY

package "M33- Sustainable Design Strategy.pdf".

Path B requirements for Low Emissions Green Buildings:

-M33 - Sustainable Design Strategy.pdf (full rpeort) -M33 - Appendix 1 - ZEBP Energy Checklist.xlsx -M33 - Appendix 2 - EnergyModel Inputs.pdf -M33 - Appendix 3 - Preliminary Embodied Emissions Calculations.pdf -M33 - Appendix 4 - IRMP.pdf (Geopacific) -M33 - Appendix 5 - Commitment Letter from the Owner

		TEDI	TEUI	GHGI
Performance	Building Type	(kwh/m²/yr)	(kwh/m²/yr)	(kCO ₂ e/m ² /yr)
	Residential	15	100	5
Rezoning Requirement	Retail	21	170	3
	Restaurant	35% below current VBBL		
	Residential	11.5	99.9	3.6
Proposed Building	Retail	17.5	149	1.9
	Restaurant	Will meet 35% below current VBBL; Yes, strategies TBD		
		Pass	Pass	Pass

RECOLLE RECOLLECTIVE

commitment letter for the following sustainability requirements. The letter is included in Appendix 5.

B.5 – Energy System Sub-Metering A separate master metering for each energy utility will be provided as well as sub-metering of all major energy end-uses and major space uses within the building. Also, an Energy Star Portfolio Manager account will be setup letter is included in Appendix 5.

B6.1 – Refrigerant Emissions

Refrigerants emission for the building will be calculated and reported. The HVAC&R system will be designed to

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4906 - 4958 MAIN STREET

SUSTAINABILITY STRATEGY

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This excerpt is taken from Recollective Consulting Inc's sustainable design submission

Refer to the following documents for further details on meeting the City of Vancouver's

-M33 - Recalibrating-Housing-Vancouver-targets-motion-data-tables-appendix-b.xlsx



WEST / MAIN ST. STREETSCAPE - PROPOSED



NORTH / E.33RD AVE STREETSCAPE - PROPOSED



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STREETSCAPES

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MARCH 21 - 10 AM





MARCH 21 - 12 PM





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SHADOW DIAGRAMS

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SEPTEMBER - 10 AM





SEPTEMBER 21 - 12 PM



SEPTEMBER 21 - 2 PM



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4906 - 4958 MAIN STREET

PARKING P2 FLOOR PLAN

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PARKING P1 FLOOR PLAN

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GROUND FLOOR PLAN

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4906 - 4958 MAIN STREET

2ND FLOOR PLAN

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SCALE	1/16" = 1'-0"
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3RD & 4TH FLOOR PLAN

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5TH FLOOR PLAN

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6TH FLOOR PLAN

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ROOF PLAN

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ROOF PLAN_OVERALL

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2ND FLOOR ROOF



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ΡL EL 283.25' T.O. PARAPET OUTLINE OF EXISTING ADJACENT TWO STOREY BUILDING RE-FEE LANE TING POWER POST TO BE RELOCATED

8G: 265.84

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SOUTH ELEVATION

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NORTH ELEVATION

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SECTION 1

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NORTH ELEVATION (E.33RD AVE

WEST ELEVATION (MAIN STREET)



EAST ELEVATION (LANE)





PLAZA AT SOUTHWEST CORNER

SOUTH/ WEST ELEVATION



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