

Development Permit Panel Electronic Meeting

Council Chambers, City Hall 6911 No. 3 Road Wednesday, May 10, 2023 3:30 p.m.

MINUTES

Motion to adopt the minutes of the Development Permit Panel meeting held on February 15, 2023.

1. DEVELOPMENT PERMIT 21-932383

(REDMS No. 6913890)

APPLICANT: Flat Architecture Inc.

PROPERTY LOCATION: 8951, 8971 Spires Road and 8991 Spires Gate

Director's Recommendations

That a Development Permit be issued which would:

- 1. permit the construction of 22 townhouse units and two secondary suites at 8951, 8971 Spires Road and 8991 Spires Gate and the surplus portion of Spires Road on a site zoned "Parking Structure Townhouses (RTP4)" zone; and
- 2. vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) reduce the minimum lot width from 40 m to 33.5 m; and
 - (b) reduce the minimum lot area from $2,400 \text{ m}^2$ to $2,000 \text{ m}^2$.

ITEM

2. DEVELOPMENT PERMIT 21-943565

(REDMS No. 7202148)

APPLICANT: Orion Construction

PROPERTY LOCATION: 9800 Van Horne Way

Director's Recommendations

That a Development Permit be issued which would permit the construction of two multitenant light industrial buildings at 9800 Van Horne Way on a site zoned "Light Industrial (IL)".

3. DEVELOPMENT PERMIT 22-019430

(REDMS No. 7181149)

APPLICANT: Talvinder Jagde

PROPERTY LOCATION: 10151 Ainsworth Crescent

Director's Recommendations

That a Development Permit be issued which would:

- 1. permit the construction of a coach house at 10151 Ainsworth Crescent on a site zoned "Single Detached with Granny Flat or Coach House Edgemere (REI)"; and
- 2. vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m; and
 - (b) decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.

4. New Business

5. Date of Next Meeting: May 25, 2023

ADJOURNMENT

Minutes



Development Permit Panel Wednesday, February 15, 2023

Time:

3:30 p.m.

Place:

Remote (Zoom) Meeting

Present:

Joe Erceg, General Manager, Planning and Development, Chair

Cecilia Achiam, General Manager, Community Safety

James Cooper, Director, Building Approvals

The meeting was called to order at 3:30 p.m.

MINUTES

It was moved and seconded

That the minutes of the meeting of the Development Permit Panel held on December 14, 2022 be adopted.

CARRIED

1. DEVELOPMENT PERMIT 21-933765

(REDMS No. 6862789)

APPLICANT:

Interface Architecture Inc.

PROPERTY LOCATION:

9300 and 9320 Cambie Road

INTENT OF PERMIT:

- 1. Permit the construction of 126 residential units in a five-storey multi-family apartment building over a common parkade at 9300 and 9320 Cambie Road on a site zoned "Low Rise Apartment (ZLR43) Alexandra Neighbourhood (West Cambie)".
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) increase the maximum lot coverage of buildings from 40 to 43 per cent; and
 - (b) reduce the minimum width of one manoeuvring aisle in the parkade from 6.7 m to 6.4 m.

Applicant's Comments

Ken Chow, Interface Architecture, Inc., with the aid of a visual presentation (attached to and forming part of these minutes as <u>Schedule 1</u>), provided background information on the project's site context, road frontages, development statistics, site plan, building elevations and sections, and floor plans, highlighting the following:

- a six-storey multi-family apartment building is located to the east of the subject site and a three-storey townhouse development is located to the west of the site;
- the proposed development is located within the Alexandra District Energy Utility Energy (DEU) catchment area and will be required to connect to the Alexandra DEU;
- the proposed building has been designed to provide an appropriate transition from the six-storey apartment building to the east to the three-storey townhouse development to the west;
- the required east-west McKim Way road dedication will split the site into the northern portion where the 126-unit five-storey apartment building will be sited and the southern portion which will have an outdoor amenity space with garden plots for the exclusive use of residents in the proposed development;
- the proposed unit types include one- to three-bedroom units with dens;
- five two- to three-bedroom units will be provided for affordable housing;
- 36 units, including the five affordable units, will meet the City's Basic Universal Housing (BUH) requirements;
- the central mass of the proposed building is positioned from the adjacent east and west developments to provide separation, screening, and privacy and mitigate potential overlook and shadowing onto adjacent developments;
- the southeast corner of the proposed building is chamfered to allow sunlight penetration to the proposed building and to the west face of the adjacent apartment building to the east;
- the Cambie Road and McKim Way frontages include terraced landscaping to provide an appropriate relationship with the street; and
- in addition to the fitness centre and a multipurpose room on the first floor, a common amenity room will be provided on each floor of the proposed building.

Yiwen Ruan, PMG Landscape Architects, briefed the Panel on the main landscape features of the project with the aid of a visual presentation (attached to and forming part of these minutes as Schedule 2), noting that (i) 38 existing trees on the site will be removed and 79 new trees will be planted, (ii) curved retaining walls with planters are proposed along the south edge to provide transition from McKim Way to the proposed building, (iii) the pedestrian entries on McKim Way are marked with pedestrian scale lighting, (iv) an architectural trellis is proposed above the parkade entry, (v) the loading area is screened from McKim Way by raised planters, (vi) the subject site's grade along the west side is matched to the site grade of the adjacent townhouse development and trees and tall shrubs are proposed to provide screening and privacy, (vii) terraced planter walls and trees are proposed along the north edge of the subject site to provide transition from Cambie Road to the proposed building, (viii) a landscape boulder feature, bench seating and bicycle rack are proposed near the pedestrian lobby entrance, (ix) terraced planter walls, one row of trees, and lounge seats are provided along the east edge of the subject site to provide a quiet and resting zone for the proposed development and privacy to the two adjacent properties, (x) the outdoor amenity area on the podium includes, among others, a children's play area, a large lawn, and an outdoor dining area, (xi) the community gardens in the southern portion of the subject site will be fenced and gated, and (xii) permanent irrigation will be provided for all landscaped areas in the proposed development.

Panel Discussion

In reply to queries from the Panel, Mr. Chow and Mr. Ruan noted that (i) the green space adjacent to the parkade entry and loading area is elevated and will not be accessible to the public, (ii) the proposed children's play area includes a large open lawn area and multiple play structures that provide play opportunities for children with ages ½ to 12 years, (iii) a three- to four-feet wide rainwater percolation zone is provided along the east and west edges of the subject site, (iv) downward focused and low lighting are proposed throughout the subject site which include bollard lights, step lights and unity entry downward lights to provide adequate lighting and avoid light pollution, and (v) there are penthouse units with outdoor decks provided on the 5th floor along Cambie Road.

Staff Comments

Wayne Craig, Director, Development, noted that (i) there is a Servicing Agreement associated with the project which includes, among others, frontage improvements along Cambie Road and road construction of McKim Way extension through the subject site, (ii) the proposed variance to reduce the minimum width of one manoeuvring aisle is limited to a portion of the parkade, was reviewed and supported by Transportation staff, and would not adversely impact traffic mobility within the parkade, (iii) the proposed variance to increase the maximum lot coverage of buildings is a technical variance associated with balcony projections and columns supporting the balcony projections which assist in achieving energy efficiency, (iv) the building has been designed to achieve BC Step Code Level 3, (v) the package of Transportation Demand Measures (TDM) associated with the project includes, among others, provision of one-year 2-zone monthly transit passes to 25 percent of the market units and 100 percent of affordable units, provision of a bicycle maintenance and repair room in the development, provision of two car share vehicle spaces equipped with electric vehicle (EV) charging, and provision of voluntary cash contributions for wayfinding and cycling-related infrastructure in the West Cambie area.

In reply to queries from the Panel, Mr. Craig confirmed that (i) there is an existing north-south pedestrian walkway adjacent to the proposed community gardens, (ii) the walkway will be improved as part of the Servicing Agreement, and (iii) the proposed lot coverage variance is associated with the balcony columns which help thermal bridging for the balconies and enhance energy efficiency.

Correspondence

None.

Gallery Comments

Shaun Traill, a resident of the six-storey apartment building (i.e., REMY building) to the east of the subject site, sought clarification regarding (i) the proposed variance in lot coverage from 40 to 43 percent, (ii) the proposed affordable housing units, and (iii) whether there is public access along the east side of the proposed development adjacent to the REMY building.

In reply to Mr. Traill's queries, Mr. Craig noted that (i) the proposed increase of 3 percent in lot coverage is associated with columns that support balconies on the second floor of the subject building and enhance energy efficiency, (ii) the proposed five affordable housing units in the project are low-end market rental units secured by housing agreement with the City and could be occupied by qualified tenants meeting the City's income requirements, and (iii) there is no public access along the east side of the subject building.

Huang Wen Zheng, 4133 Stolberg Street, queried regarding the distance of the proposed building from the REMY building and expressed concern regarding fire truck access in the parkade as it relates to the proposed variance in minimum width of one manoeuvring aisle in the parkade.

In reply to Mr. Huang's queries, the Chair noted that the proposed building's setback from the common property line is larger than the building setback provided on the REMY building.

In addition, Mr. Craig noted that (i) the minimum required setback from the common property line is 4 meters, (ii) the central portion of the subject building is set back 10.4 meters from the east property line and the proposed building setback at the north and south ends of the proposed building is 4 meters, (iii) there is no need for fire truck access in the parkade, (iv) a fire suppression system will be installed in the proposed building that meets the City's Building Code requirements, and (v) the proposed manoeuvring aisle variance is limited to the eastern side of the parkade which is occupied only by small cars.

Mr. Huang also expressed concern regarding the height of the proposed building, its potential impact on sunlight exposure to the adjacent REMY building particularly during winter, and the width of the roads in the neighbourhood.

With regard to the concern on the height of the proposed building and road width, the Chair noted that (i) the proposed height of the building is a zoning issue which is not within the purview of the Panel, and (ii) the roads in the neighbourhood have been designed to accommodate the proposed development in accordance with the master plan for the neighbourhood.

With regard to the potential shadow impact of the proposed building on the adjacent REMY building, Mr. Craig referenced the shadow analyses for the project, noting that the two buildings will cast a shadow on each other during winter and confirmed that the amount of shading on the proposed development from the taller REMY building would be greater. In addition, Mr. Craig noted that the proposed building has been pulled back as far as possible from the east property line to mitigate shadowing impacts.

Panel Discussion

The Panel expressed support for the project, noting that (i) the project has been sensitively designed to provide an appropriate interface with existing adjacent developments and the adjacent streets, and (ii) the proposed outdoor amenity spaces are well thought out.

The Panel then directed staff to work with the applicant to address potential security issues with respect to the proposed community gardens on the southern portion of the subject site.

Panel Decision

It was moved and seconded

That a Development Permit be issued which would:

- 1. permit the construction of 126 residential units in a five-storey multi-family apartment building over a common parkade at 9300 and 9320 Cambie Road on a site zoned "Low Rise Apartment (ZLR43) Alexandra Neighbourhood (West Cambie)".
- 2. vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) increase the maximum lot coverage of buildings from 40 to 43 per cent; and
 - (b) reduce the minimum width of one manoeuvring aisle in the parkade from 6.7 m to 6.4 m.

CARRIED

2. New Business

It was moved and seconded

That the Development Permit Panel meeting tentatively scheduled on Wednesday, March 1, 2023 be cancelled.

CARRIED

3. Date of Next Meeting: March 15, 2023

ADJOURNMENT

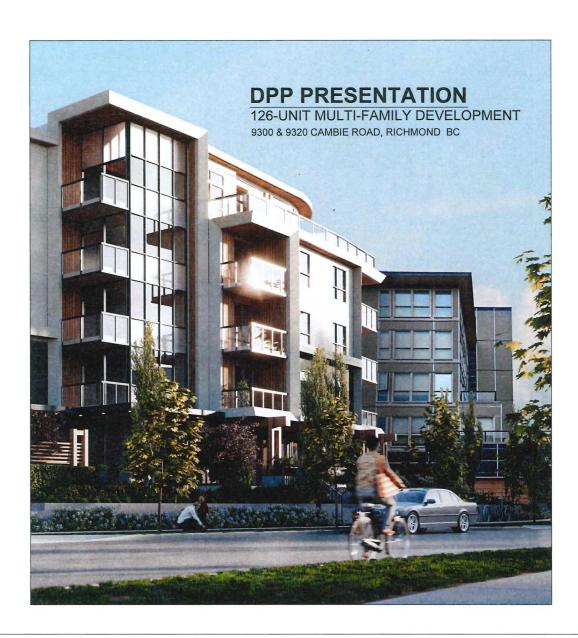
It was moved and seconded *That the meeting adjourn (4:39 p.m.).*

CARRIED

Certified a true and correct copy of the Minutes of the meeting of the Development Permit Panel of the Council of the City of Richmond held on Wednesday, February 15, 2023.

Joe Erceg Chair Rustico Agawin Committee Clerk

Schedule 1 to the Minutes of the Development Permit Panel meeting held on Wednesday, February 15, 2023



LIST OF IMAGES

- 1 TITLE SCREEN
- 2 SITE CONTEXT & PARCELING
- 3 EXISTING CAMBIE ROAD FRONTAGE
- 4 EXISTING MCKIM WAY FRONTAGE
- 5 DEVELOPMENT STATISTICS
- 6 SITE DESIGN CONTEXT 1
- 7 SITE DESIGN CONTEXT 2
- 8 SITE DESIGN CONTEXT 3
- 9 EAST-WEST SITE & BUILDING SECTION
- 10 BUILDING SECTION AT ENTRIES
- 11 BUILDING SECTION AT TOWNHOUSES
- 12 SHADOW STUDY AT 6-STOREY REMY
- 13 ACTUAL MATERIAL SAMPLES & COLOURS
- 14 RENDERING: AERIAL VIEW AT CAMBIE ROAD
- 15 RENDERING: AERIAL VIEW AT MCKIM WAY
- 16 RENDERING: STREET LEVEL VIEW AT CAMBIE ROAD
- 17 RENDERING: STREET LEVEL VIEW AT MCKIM WAY
- 18 PARKADE FLOOR PLAN
- 19 MAIN FLOOR PLAN



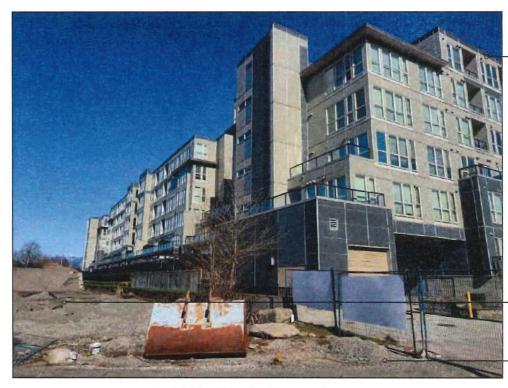




WESTMARK GROUP WESTMARK GROUP 1 - Cambie St looking south east 1 - Cambie St looking south west



3 - Mckim Way looking north east



4 - Mckim Way looking north east

LEVELS	AREA BREAKDON	EXEMPTIONS	NET (FAR)
L1	2,570.0 m ² (27,664 ft ²)	422.6 m ² (4,550 ft ²)	2,147.4 m ² (23,114 ft ²)
L2	2,575.0 m ² (27,717 ft ²)	128.1 m ² (1,379 ft ²)	2,446.9 m ² (26,338 ft ²)
L3	2,575.0 m ² (27,717 ft ²)	128.1 m ² (1,379 ft ²)	2,446.9 m ² (26,338 ft ²)
L4	2,575.0 m² (27,717 ft²)	128.1 m ² (1,379 ft ²)	2,446.9 m ² (26,338 ft ²)
L5	2,031.7 m ² (21,869 SF)	97.6 m ² (1,050 ft ²)	1,934.1 m ² (20,819 ft ²)
TOTALS	12,326.7 m ² (132,684 ft ²)	904.5 m ² (9,737 ft ²)	11,422.2 m² (122,947 ft²

AHU & BUH			IC UNIVER	SAL HOUS	ING UNITS (BUH) *ALL AHU ARE BUH
UNIT NUMBER	NO.OF UNITS	UNIT TYPE	BUH	AHU	MIN. AHU SIZE REQ'	UNIT SIZE PROPOSED
225, 325, 425.	3	A2-U	•		-	61.67 m²
103, 120.	2	C1-U			69 m²	74.88 m²
101, 107, 116, 122, 202, 208, 217, 223, 302, 308, 317, 323, 402, 408, 417, 423 502, 508, 512, 518,	20	D1-U	•		-	87.14 m²
115, 216, 316, 416.	4	D2-U			-	87.51 m ²
214, 314, 414.	3	E1-U			-	94.30 m ²
224, 324, 424.	3	E3-U	•		91 m ²	100.99 m ²
519.	1	E3-U			-	100.99 m ²

	NO. OF BINS	AREA REQ PER BIN (m2)	TOTAL AREA REQ (m2)
MIXED CONTAINERS	6	1.26	7.56
REFUNDABLES	3	0.97	2.91
MIXED PAPER	4	1.26	5.04
GLASS	1	0.97	0.97
FOOD SCRAPS	5	0.97	4.85
CARDBOARD	1	4.88	4.88
GARBAGE	3	7.67	23.01

U	NIT	MIX	SUN	/IMA	RY					
ROOM TYPE	UNIT TYPE	ft	Li	L2	L3	L4	LS	TOTAL UNITS NO.	(ft²)	INU
18	A1	634		1	1	1		3	1,902	
	A2-U	667		1	1	1		3	2,001	
						SUBTO	TAL	6	3,903	5%
1B + D	81	651	1	1	1	1		4	2,604	
	B2	652		1	1	1	1	4	2,636	
	B3	660	1					1	660	
	B4	687		1	1	1		3	2,061	
	B5	707		1	1	1		3	2,121	
	B6	738	1					1	738	
						SUBTO	TAL	16	10,820	13%
2B	C1-U	806	2					2	1,612	
	C2.1	806		2 2	2	2	2 2	8	6,448	
	C2.2	801	2	2	2 2 6 2	2	2	10	8,010	
	C3.1	858	6	6	6	6	4	28	24,024	
	C3.2	851	2	2		2	2	10	8,510	
	C4	875	1	1	1	1	1	4	3,500	
	C5	986		1	1	1		3	2,958	
			Nisa di Santa		****	SUBTO		65	55,062	51%
2B + D	D1-U	938	4	4	4	4	4	20	18,760	
	D2-U	942	1	1	1	1		4	3,768	
	D3	1,082					1	1	1,082	
						SUBTO	TAL	25	23,610	20%
3B	E1-U	1,015	100	1	1	1		3	3,045	
	E2	1,049	1	1	1	1		4	4,196	
	E3-U	1,087	l	1	1	1	1	4	4,348	
	E4	1,163			l	1	1	1	1,163	
	E5	1,344					1	1	1,344	
						SUBTO	TAL	13	1,344	10%
3B + D	F1	1,639					1		1,639	
			_		_	SUBTO	TAL	11	1,639	1%
			1	1	1	1	1	II .		

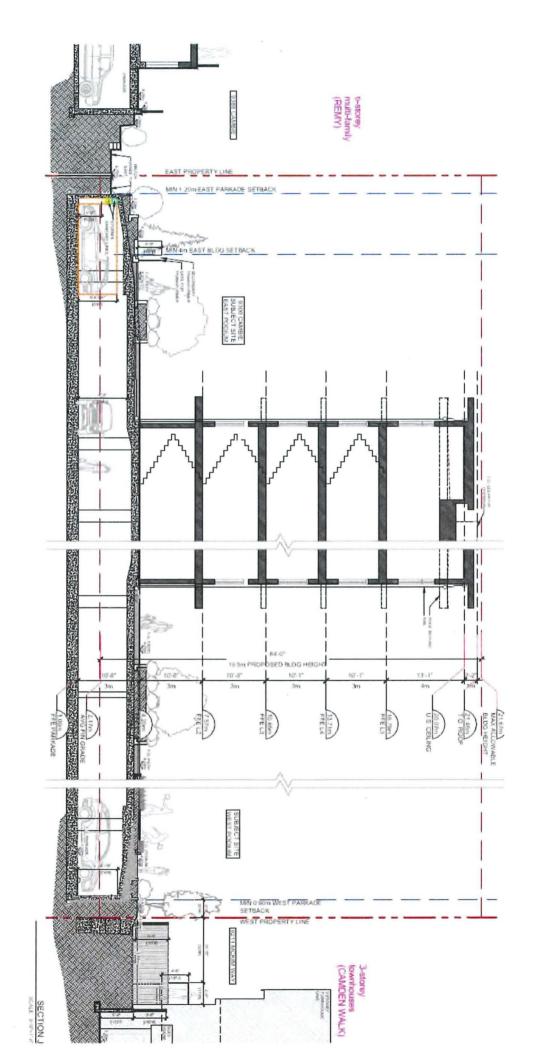
AVE	RAGE	SITE G	RADE	CALCULA	NOITA
	NE	NW	SE	SW	AVERAGE
SITE A (MAIN)	1.93	1.96	2.13	2.08	2.025 m
SITE B (REMNANT)	2.35	2.15	-	2.47	2.323 m
	1		AVERAGE FINI	SHED GRADE	2.17 m

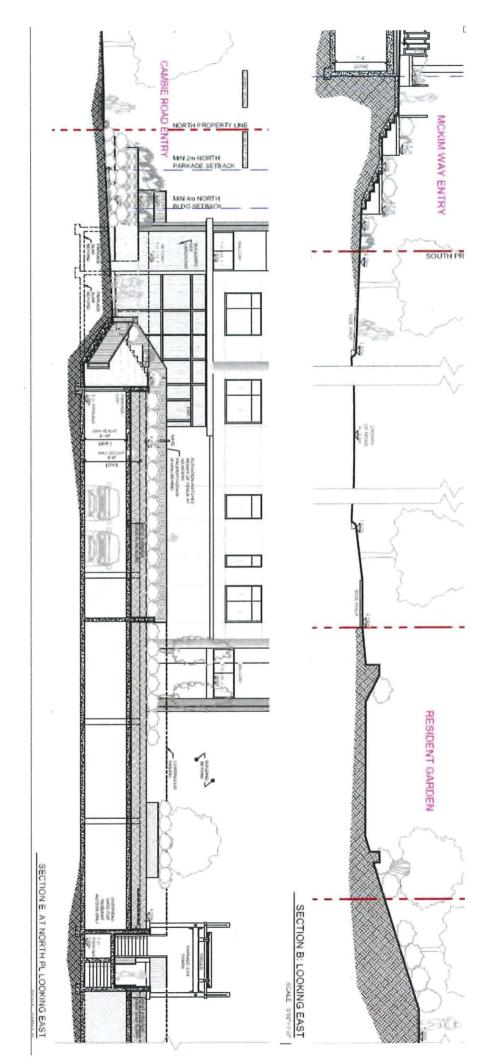
ZONING SUM	Zoning Bylaw No. 850	
**********	PERMITTED / REQUIRED	PROJECT SPECIFICS (PROPOSED)
LOT ZONING USES DENSITY (MAX)	RS1 / F (EXISTING) MEDIUM DENSITY HOUSING (OCP) 1.50 FAR (8ASE MKT HSG) = 10,104 m ² + 0.2 (1/3 ALH = 0.057 = 449.05 m ² MIN) & (2/3 MKT = 0.133 = 698.13 m ² MAX)	ZLR43 (LOW-RISE APARTMENT) APARTMENT HOUSING 1.50 FAR (BASE MKT HSG) = 10,104 m ² + 0.067 ALH (452.7 m ²) + 0.131 MKT (880.25 m ²)
	TOTAL ALLOWABLE MAX FAR:	TOTAL PROPOSED FAR:
	>>1.7 FAR = 11,451.2 m ² [123,259 ft ²]	>>1.695 FAR = 11,422.2 m ² [122,947 ft ²]
	+ 0.1 INTERIOR AMENITY = 673,6 m ² MAX	+ 0.0814 INTERIOR AMENITY= 548.5 m ²
LOT COVERAGE	40% MAXIMUM	42.2% (2,842 M² / 6,736 m²)
MIN BUILDING SETBACKS	7.5 m (MCKIM WAY); 4.0 m (CAMBIE ROAD)	7.5 m (MCKIM WAY); 4.0 m (CAMBIE ROAD
	4.0 m MIN AT INTERIOR LOT LINES	4.0 m MIN AT INTERIOR LOT LINES
MIN PARKADE SETBACKS	7.5 m (MCKIM WAY); 2.0 m (CAMBIE ROAD)	7.5 m (MCKIM WAY), 2.0 m (CAMBIE ROAD
	0.9 m (WEST), 0.9 m (EAST)	0.9 m (WEST), 1.2 m (EAST)
STAIR SETBACKS	1.5 m MINIMUM AT PUBLIC ROAD	1.5 m AT PUBLIC ROAD
BUILDING HEIGHT MAX.	5 STOREYS, 19.5 m	19.5 m, 5 STOREYS OVER BSMT PARKAD
FCL	2.6 m GSC (PER OCP WEST CAMBIE)	2.6 m GSC
PARKING	192 SPACES (AFTER 10% TDM REDUX)	193 SPACES = 1.523 SP/UNIT
	R: 164 SP = 1.5 PER 121 MKT UNITS	* 164 RESID MARKET UNITS
	* R: 5 SP = 1.0 PER 5 AHU UNITS	*5 RESID AFFORDABLE UNITS
	* V: 23 SP = 0.2 PER 126 RESID UNITS	*24 VISITOR (INCLUDE 2 CAR SHAR
MIN AMENITY SPACE	MIN. 100 m ² (INDOOR)	548.5 m ² = 0.0814 FAR (INDOOR)
(14.4.5.D)	6 m ² /UNIT (756 m ²) COMMON OUTDOOR	853.1 m ² COMMON OUTDOOR (USABLE)
	3 m ² /UNIT (378 m ²) CHILDREN'S PLAY	384.3 m ² CHILDREN'S PLAY
	6 m ² PRIVATE OUTDOOR SPACE	MIN. 6.3 m ² PER UNIT
MECHANICAL SPACE	100 m ² MAX	96 m ²
(4.5;1) = = = = = = = =		
AFFORDABLE LEMR	449.06 m ² MINIMUM*	452.7 m ² (5 UNITS, 2 x 2BR, 3 x 3BR)*
HOUSING (AHU) UNITS	= ONE THIRD OF 0.2 BONUS FAR	* SEE SUMMARY TABLE
	= 0.0666667 FAR	* ALL AHU UNITS ARE ALSO BUH UNITS
	* TO BE BUILT, # UNITS EXCEED 60	
BASIC UNIVERSAL	10% (PER OCP GUIDELINES)	29%
HOUSING (BUH) UNITS	TARGET 85% OF ALL LEMR UNITS	= 36 UNITS OUT OF 126 UNITS TOTAL

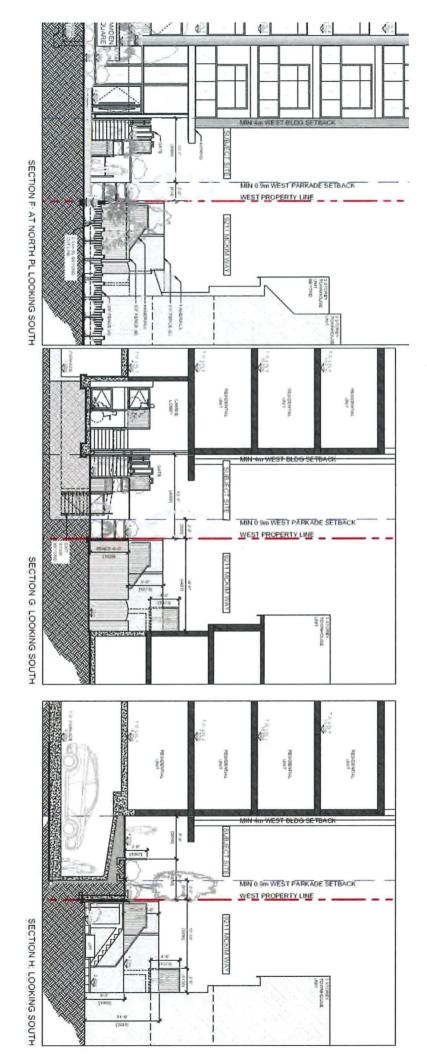


















MARCH 21 3PM MARCH 21 2PM



MARCH 21 4PM



MARCH 21 5PM



MARCH 21 6PM

SHADOWING ON REMY WEST FACE (SOUTH END, MCKIM WAY) - SPRING EQUINOX (1PM TO 6PM)



JUNE 21 1PM



JUNE 21 2PM



JUNE 21 3PM



JUNE 21 4PM



JUNE 21 5PM

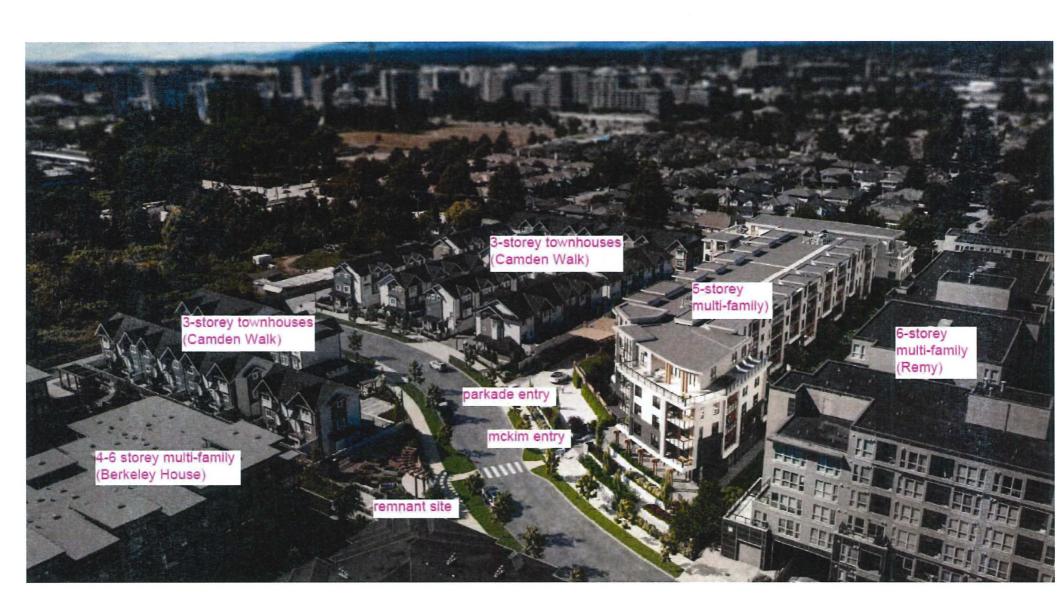


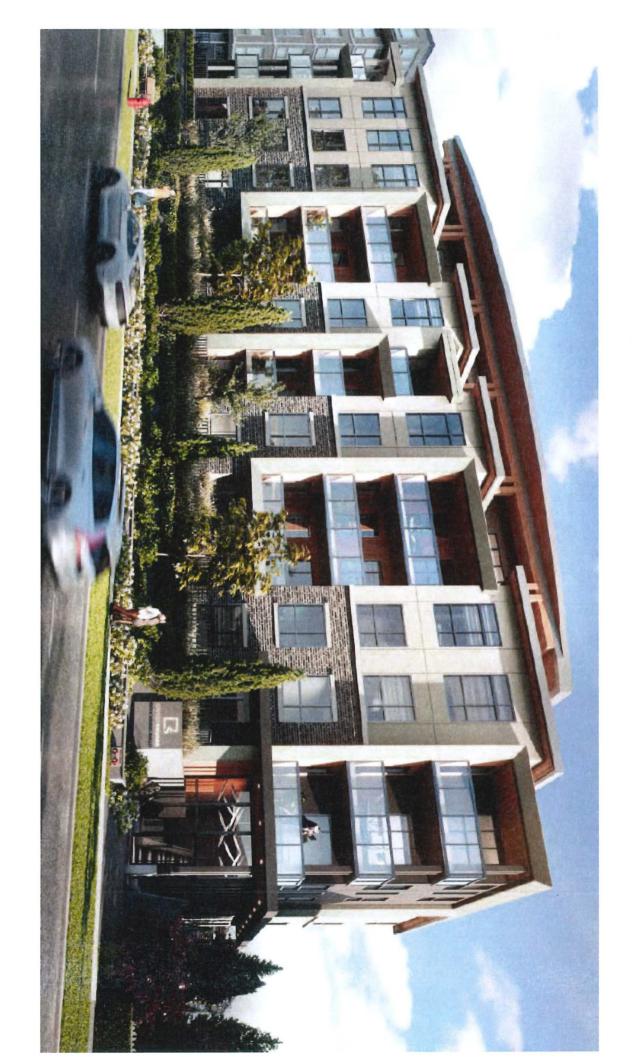
JUNE 21 6PM

SHADOWING ON REMY WEST FACE (SOUTH END, MCKIM WAY) - SUMMER SOLSTICE (1PM TO 6PM)

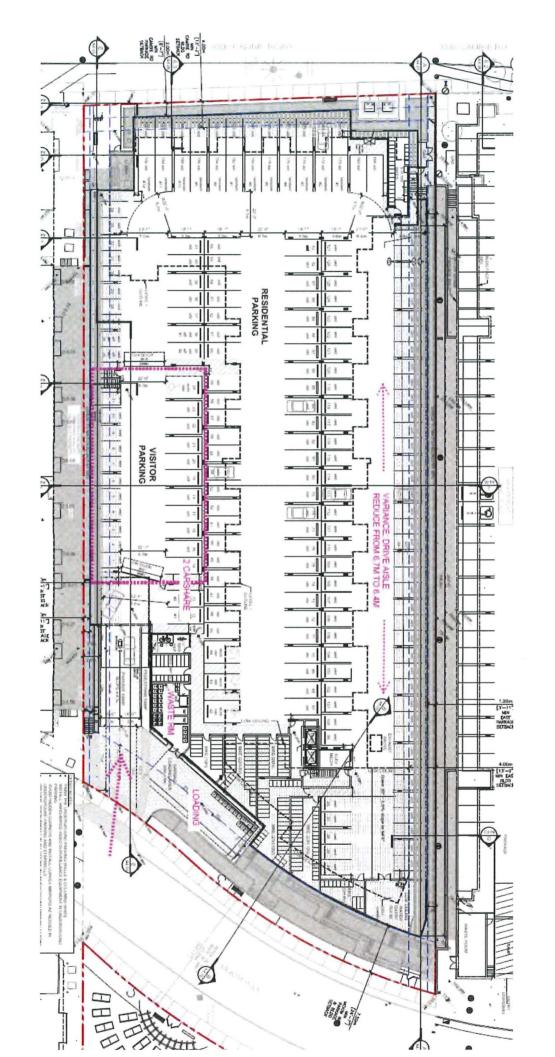


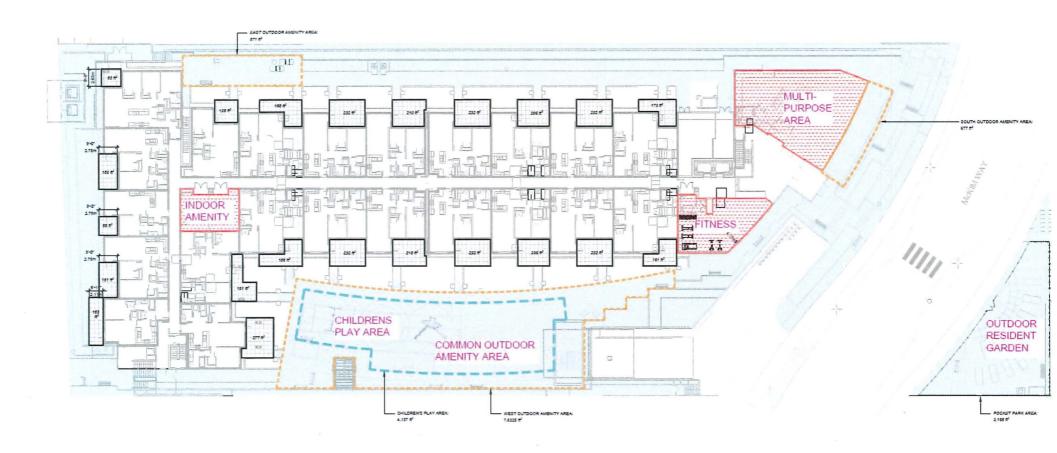












Schedule 2 to the Minutes of the Development Permit meeting held on Wednesday, February 15, 2023

PLANT SCHEDULE - ONSITE PMG PROJECT NUMBER: 19-151 COMMON NAME PLANTED SIZE / REMARKS ACER CIRCINATUM VINE MADIE 4M HT: B&B: 3 STEM CLUM ACER PALMATUM JAPANESE MAPLE 4M HT: B&B COLUMNAR ARMSTRONG MAPLE 8CM CAL; 2M STD; B&B ACER RUBRUM 'ARMSTRONG' CERCIDIPHYLLUM JAPONICUM KATSURA TREE 8CM CAL; 1.8M STD; B&B DAWYCK GOLD BEECH FAGUS SYLVATICA 'DAWYCK GOLD' BCM CAL - B&B 8CM CAL; 1.8M STD; B&B GLEDITSIA T INERMIS 'SKYLINE' SKYLINE HONEY LOCUST AMELANCHIER X GRANDIFLORA 8CM CAL; 1.5M STD; B&B PICEA GLAUCA WHITE SPRUCE 4M HT: B&B

NOTES: *PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CN.LA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. *REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL. ACCEPTABLE SIZES. * REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL REQUIREMENTS. * SEARCH AND REVIEW MAKE PLANT MATERIAL AVAILABLE FOR OPTIONAL REVIEW BY LANDEAP ARCHITECT AT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. * SUBSTITUTIONS: OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. UNAPPROVED SUBSTITUTIONS WILL BE REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTIONS SOBS IN THIS RESEARCH AND REPORT OF THE RESEARCH AND CANADIAN LANDSCAPE STANDARD - DEFINITION OF CONDITIONS OF AVAILABILITY.* ALL LANDSCAPE MATERIAL AND WORKMASHIP MUST MEET OR EXCEED BE LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD LANDSCAPE STANDARD CANADIAN LANDSCAP GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

NOTE: ONSITE IRRIGATION FOR ALL SOFT LANDSCAPE WILL BE INSTALLED

NT S	CHEDULE- COMMUN	PMG PROJECT NUMBER: 19-151	
QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
3	FICUS CARICA	COMMON FIG	8CM CAL; 1.5M STD; B&B
2	MALUS DOMESTICA 'FUJI'	FUJI APPLE	8CM CAL; 1.5M STD; B&B
		QTY BOTANICAL NAME 3 FICUS CARICA	3 FICUS CARICA COMMON FIG

NOTES: * PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STAN LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CNLA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CNLA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. REFER TO SPECIFICATIONS FOR DEFINITIONS CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL. REQUIREMENTS. SEARCH AND REVIEW BY AND REVIEW PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY, * BIO-SOLIDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.





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-			
IJ	2022/NOV/14	CITY COMMENTS/NEW SITE PLAN	WZ
12	2022/JUN/22	NEW SITE PLAN	YM
11	2022/APR/30	ADP COMMENTS	YR
10	2022/APR/20	PARKADE CICIALIST	YR
,	2022/MAN/05	ISSUE FOR ADP	YR
	2022/+LB/16	NEW SITE PLAN	YM
7	2021/OCT/25	CITY COMMENTS & NEW SITE PLAN	1841
6	2021/509/14	EAST PARKAGE LINE	YR
3	2021/JUL/29	NEW STEPLAN	YW.
4	2021/MAY/17	NAM STEWSIN	YX
3	2020/001/29	NEW SITE PLAN-COMMUNITY GARDEN	JH.
2	2020/587/25	NEW SITE PLAN AND CITY COMMENTS	YR
1	2020/MAY/06	CLIENT COMMENTS AND NEW SITE PLAN	YR
7.			

CLIENT:

RESIDENTIAL DEV.

9300 & 9320 CAMBIE RD. RICHMOND, BC

LANDSCAPE PLAN

SCALE:

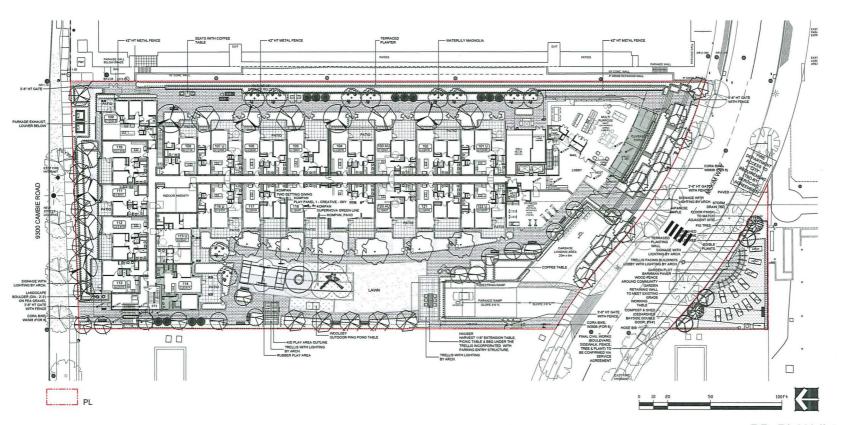
PLANT S	SCHEDULE - ONSITE	PMG PROJECT NUMBER: 19-151	
KEY QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
D 6	ACER CIRCINATUM	VINE MAPLE	4M HT; B&B 3 STEM CLUMP
15	ACER PALMATUM	JAPANESE MAPLE	4M HT; B&B
8	ACER RUBRUM 'ARMSTRONG'	COLUMNAR ARMSTRONG MAPLE	8CM CAL; 2M STD; B&B
6	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	8CM CAL; 1.8M STD; B&B
10	FAGUS SYLVATICA 'DAWYCK GOLD'	DAWYCK GOLD BEECH	8CM CAL; B&B
6	GLEDITSIA T. INERMIS 'SKYLINE'	SKYLINE HONEY LOCUST	8CM CAL; 1.8M STD; B&B
10	AMELANCHIER X GRANDIFLORA	SERVICEBERRY	8CM CAL; 1.5M STD; B&B
13	PICEA GLAUCA	WHITE SPRUCE	4M HT; B&B
NOTES ADJAN	T 01750 IN THIS LIST ARE OREGISIES ASSOCIATE	O TO THE DO I MIDOCADE STANDARD AND O	ANIADIANI ANIDOGADE STANDADO

NOTES: * PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STAN LATEST EDITION. CONTAINER SIZES SPECIFIED AS SPECIFIED AS FOR CINA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. * REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL. ACCEPTABLE SIZES. * REPERT IO SPECIFICATIONS POR DEFINED CONTAINER MEASUREMENTS AND OF HER PLANT MATERIAL REQUIREMENTS. * SEARCH AND REVIEW MAKE PLANT MATERIAL AVAILABLE FOR OPTIONAL REVIEW BY LANDSCAPE ARCHITECT AT SOURCE OF SUPPLY, AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. * SUBSTITUTIONS: OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL UNAPPROVED SUBSTITUTIONS WILL BE REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD - DEFINITION OF CONDITIONS OF AVAILABILITY * ALL LANDSCAPE MATERIAL AND WORKMASHIP MUST MEET OR EXCEED BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD LATEST EDITION. *ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY.* BIO-SOLIDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

NOTE: ONSITE IRRIGATION FOR ALL SOFT LANDSCAPE WILL BE INSTALLED

PLAN	NT S	CHEDULE- COMMUNI	PMG PROJECT NUMBER: 19-151	
KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
TREE				
6	3	FICUS CARICA	COMMON FIG	8CM CAL; 1.5M STD; B&B
Ø	2	MALUS DOMESTICA 'FUJI'	FUJI APPLE	8CM CAL; 1.5M STD; B&B

NOTES: *PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD,
LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CNLS STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM
ACCEPTABLE SIZES. *REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL.
REQUIREMENTS. *SEARCH AND REVIEW. MAKE PLANT MATERIAL. AVAILABLE FOR OPTIONAL REVIEW BY LANDSCAPE ARCHITECT AT SOURCE
OF SUPPLY. AREA OF SEARCH OF ION CLUED LOWER MAINLAND AND FRASER VALLEY. *SUBSTITUTIONS: DETAIN WRITTEN APPROVAL FROM
THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL LANAPROVED SUBSTITUTIONS WILL BE
REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTIONS ARE SUBJECT TO BE
LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD. DEFINITION OF CONDITIONS OF AVAILABILITY. *ALL LANDSCAPE MATERIAL
LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD. DEFINITION OF CONDITIONS OF AVAILABILITY. *ALL LANDSCAPE MATERIAL
LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD. DEFINITION OF CONDITIONS OF AVAILABILITY. *ALL LANDSCAPE MATERIAL
LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD. DEFINITION OF CONDITIONS OF AVAILABILITY. *ALL LANDSCAPE MATERIAL
LAND MATERIAL MISSTER EPROVIDED FERDING FEBRE MISSERY *BICASOLUES MOT PERMITTED IN GROWING MEETING. PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. * BIO-SOLIDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.





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3	2022/NOV/14	CITY COMMENTS/NEW SITE PLAN	WZ
2	2022/JUN/22	NEW SITE PLAN	YR
1	2022/APR/30	ADP COMMENTS	YR
0	2022/AFR/20	PARKADE EXHAUST	YR
,	2022/MAR/09	ISSUE FOR ACP	YR
8	2022/758/16	NEW SITE PLAN	YII
7	2021/001/25	CITY COMMENTS & NEW SITE PLAN	YRA
6	2021/SEP/14	EAST PARKADE LINE	YR
5	2021/JUL/29	NEW SITE PLAN	YR
4	2021/MAY/17	NEW SITE PLAN	YA
)	2020/OCT/29	NEW SITE PLAN- COMMUNITY GARDEN	34
2	2020/SEP/25	NEW SITE PLAN AND CITY COMMENTS	YR
1	2020/MAR/06	CLIENT COMMENTS AND NEW SITE PLAN	·γn
C	DATE	REVISION DESCRIPTION	DR

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PROJECT:

RESIDENTIAL DEV.

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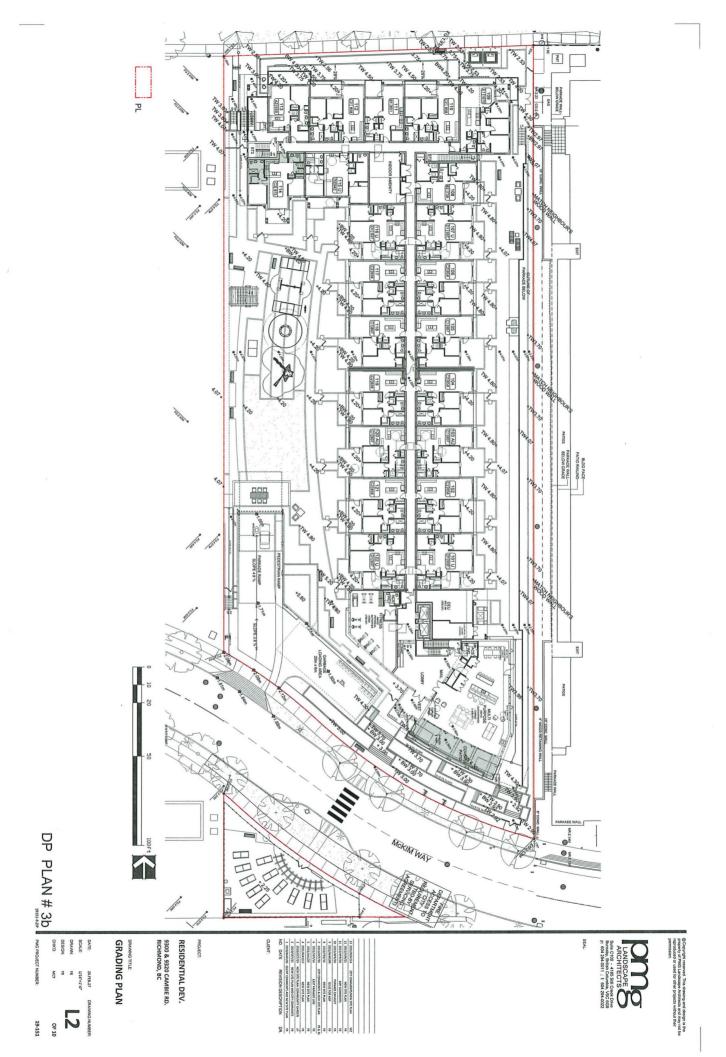
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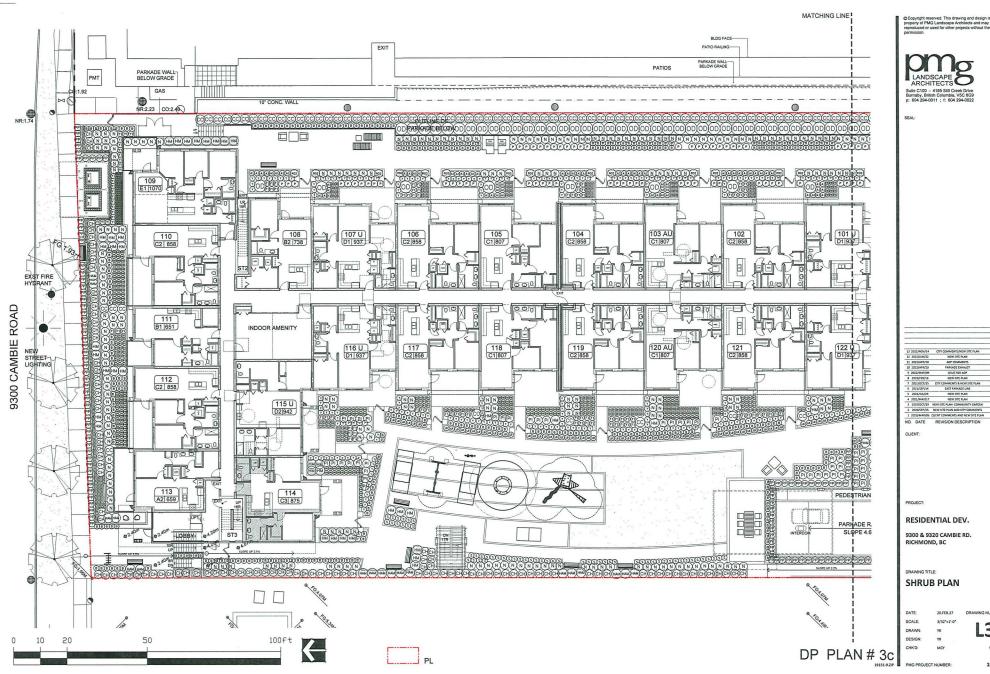
LANDSCAPE **PLAN**

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DATE	20.FEB.27	DRAWING
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DRAWN:	YR	
DESIGN:	YR	
CHK'D:	MCY	

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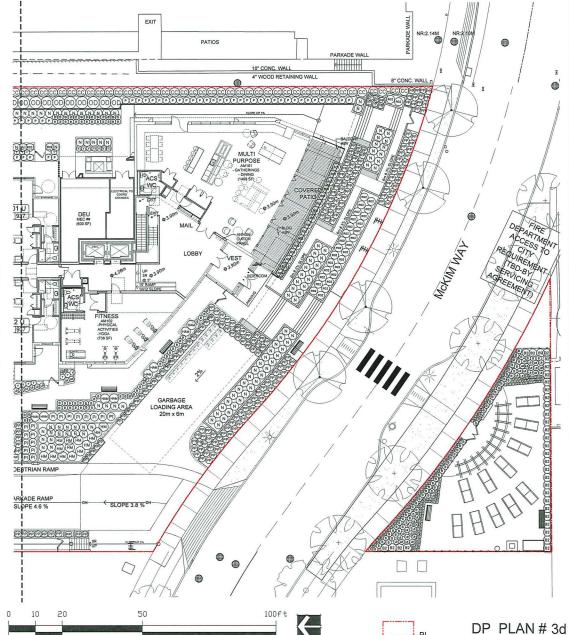
OF 10 19-151





2022/NOV/14	CITY COMMENTS/NEW SITE PLAN	WZ
2022/JUN/22	NEW SITE PLAN	YR
2022/APR/30	ADP COMMENTS	YR
2022/AFR/20	PARKADE DOHAUST	YR
2022/MAR/09	ISSUE FOR ADP	YTT
2022/FEB/16	NEW SITE PLAN	YR
2021/001/25	CITY COMMENTS & NEW SITE PLAN	TRAK
2021/SEP/14	EAST PARKAGE UNE	YR
2021/JUL/29	NEW SITE PLAN	YTT
2021/MAY/17	NEW SITE PLAN	YB
2020/001/29	NEW SITE PLAN-COMMUNITY GATDEN	.3H
2020/5EP/25	NEW SITE PLAN AND CITY COMMENTS	YR
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	DATE:	20.FEB.27	DRAWING NUMBER:
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- 1	DRAWN:	YR	13
	DESIGN:	YR	
	CHK'D:	MCY	OF 10
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REVISION DESCRIPTION

NO. DATE CLIENT:

RESIDENTIAL DEV.

9300 & 9320 CAMBIE RD. RICHMOND, BC

DRAWING TITLE:

SHRUB PLAN

D	ATE:	20.FEB.27	DRAWING NUMBER
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DI	ESIGN:	YR	
C	HK'D:	MCY	OF 10

PMG PROJECT NUMBER:

19-151

PLANT SCHEDULE PMG PROJECT NUMBER: 19-151 PLANTED SIZE / REMARKS #3 POT; 40CM #3 POT; 50CM Heconosci essos 450 120 104 256 53 26 318 56 290 62 250 30 33 MEXICAN MOCK ORANGE CHOISYA TERNATA SUNDANCE CORNUS SERICEA 'KELSEYI' DWARF KELSEY DOGWOOD #3 POT; 80CM CORNOS SERICEA RELSETT
HEBE PINGUIFOLIA 'SUTHERLANDII'
HYDRANGEA MACROPHYLLA 'ENDLESS SUMMER'
HYDRANGEA PANICULATA 'LIMELIGHT'
NANDINA DOMESTICA MOONBAY SLITHERI AND HERE #2 POT: 40CM SUTHERLAND HEBE
ENDLESS SUMMER BIGLEAF HYDRANGEA
LIMELIGHT HYDRANGEA; LIMEGREEN-PINK
DWARF HEAVENLY BAMBOO #3 POT; 80CM #3 POT; 80CM #3 POT; 80CM #3 POT; 50CM OSMANTHUS DELAVAYI FALSE HOLLY #3 POT; 50CM PRUNUS LAUROCERASUS 'OTTO LUYKEN' OTTO LUYKEN LAUREL #3 POT: 50CM HYBRID RHODODENDRON: PALE YELLOW #3 POT: 50CM TAXUS X MEDIA 'HICKSII'
TAXUS X MEDIA 'HICKSII' (1.5M HT) HICK'S YEW HICK'S YEW POLARIS BLUEBERRY 1.0M B&B 300 JH 68 127 54 CAREX ELATA 'AUREA' BOWLE'S GOLDEN SEDGE #1 POT HELICTOTRICHON SEMPERVIRENS BLUE OAT GRASS #1 POT #1 POT BLACK MONDO GRASS CHARACIAS SPURGE ENGLISH LAVENDER; COMPACT; DEEP PURPLE RUSSIAN SAGE 15CM POT 15CM POT ಗಿಂತುತ್ತದ್ದು 78 112 53 195 57 LAVENDULA ANGUSTIFOLIA 'HIDCOTE BLUE' PEROVSKIA ATRIPLICIFOLIA 'BLUE SPIRE' #2 POT CREEPING RASPRERRY RUBUS CALYCINOIDES #1 POT SEDUM 'AUTUM JOY AUTUM JOY STONECROP 9CM POT 276 112 105 BEACH STRAWBERRY 9CM POT 030 JAPANESE SPURGE WESTERN SWORD FERN #1 POT; 15CM #2 POT;35CM POLYSTICHUM MUNITUM

MATCHING LINE

ONTES: "FLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BD LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINES SIZES SPECIFIED AS PER ONLA STANDARD, BOTH PLANT SIZE AND CONTAINES SIZES ARE THE MINIMUM ACCEPTABLE SIZES. "FREER TO SPECIAL/CONTAINES FOR EXPENDENCY THAN THE ASSEMBLY AND AND OTHER PLANT INTERNAL REQUIREMENTS." "SARADH AND REVIEW MAKE PLANT HATERAL, ANALUBLE FOR DETIONAL REVIEWS IT AND SCAPE ARCHITECT AT SOURCE OF SUPPLY." AREA OF SEARCH TO INCLUDE LOWER PLANT HATERAL, ANALUBLE FOR DETIONAL REVIEWS IT AND SCAPE ARCHITECT AT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER STANDARD AND THE SEARCH SEARCH TO INCLUDE LOWER STANDARD AND THE SEARCH SEARCH TO RELIGIOUS AND SEARCH SE

NOTE: ONSITE IRRIGATION FOR ALL SOFT LANDSCAPE WILL BE INSTALLED

MATERIAL LEGEND BARRIAM PAVET - BROXDWAY SMM. COLDR. ASH SEE 20 ZETA 18 1742 59 INDA LOCADIO AGEA AND PARRADE ENTRE BARRIAM PAVET - BROXDWAY SMM. COLDR. ASH SEE 20 ZETA 18 1742 59 INDA LOCADIO AGEA AND PARRADE ENTRE BARRIAM PAVET - BROXDWAY SMM. COLDR. ASH SEE 20 ZETA 18 1743 BY BARRIAM PAVET - BROXDWAY SMM. COLDR STELLING POUR-MALE STRUBER COLDR STELLING ORANGE. PROVIDE SILBERTIAL FOR PAIG TO POUR-MALES BUSINESS ORANGE. GREEN GRE

WASHED RIVER ROCK

2'X2' PORCELAIN.
BELGARD, ARISTOKRAT SERIES,
ARCTIC MIST

CRUSHED LIMESTONE

SAW CUT CONCRETE

D

F

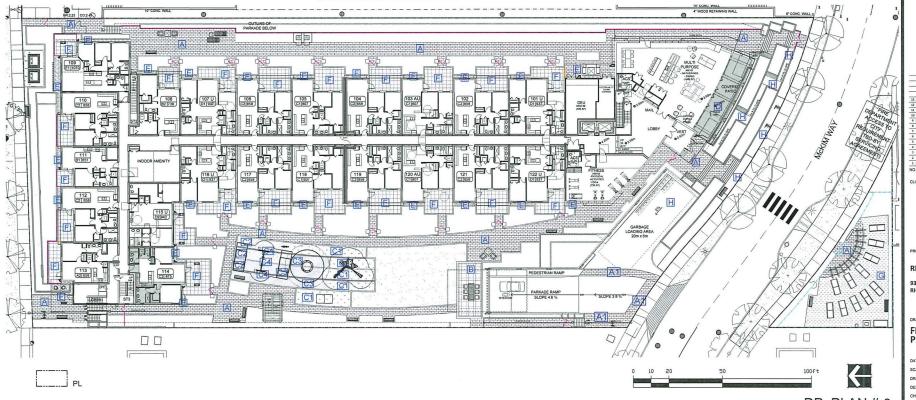
H

FENCE LE	GEND
	42" HIGH METAL FENCE
***************************************	6" HIGH SOLID WOOD FENCE
	42" WOOD FENCE

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Suile C100 - 4185 Still Greek Drive
Burnaby, Brillah Columbia, VSC 666

SEAL





CLIENT:

PROJECT.

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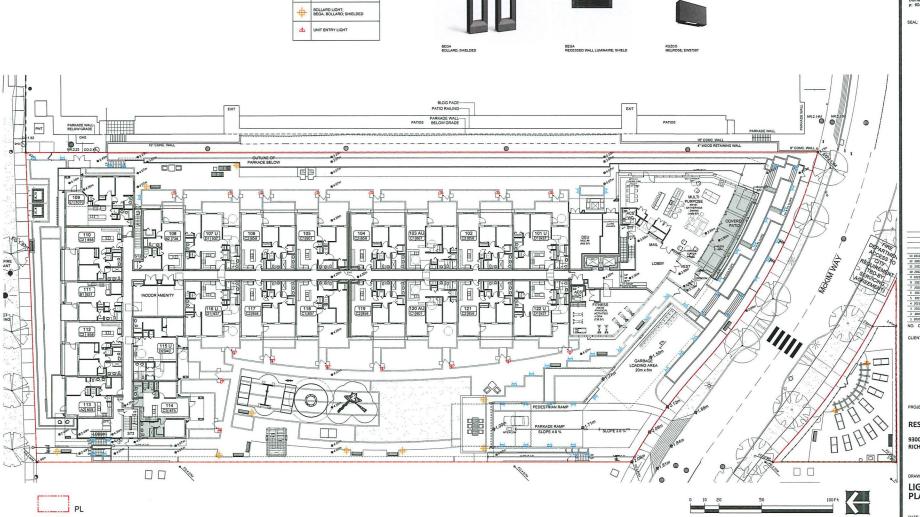
AMANG TITLE

FENCING & MATERIAL PLAN

п			
ı	DATE:	20.FEB.27	DRAWING NUMBER:
ı	SCALE:	1/16"=1'-0"	
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ı	DESIGN:	YR	
ı	CHKD:	MCY	OF 10

DP PLAN # 3e PMG PROJECT NUMBER:

19-15



LIGHT LEGEND

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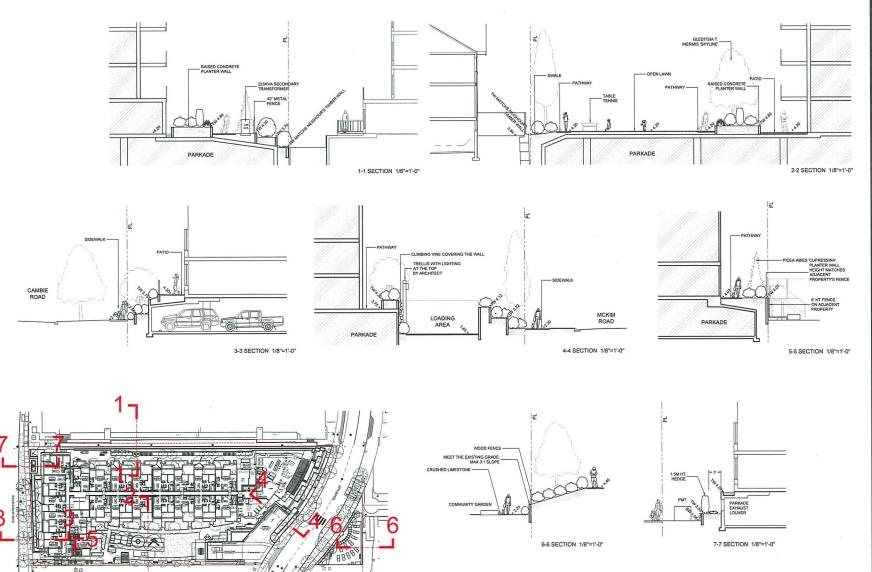
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LIGHTING PLAN

SCALE: **L6** DESIGN: OF 10 CHK'D:

DP PLAN # 3f

19-151



Suite C100 - 4185 Still Creek Drive Burnaby, British Columbia, V5C 6G9 p: 604 294-0011 ; f: 604 294-0022

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13	2022/NOV/14	CITY COMMENTS/NEW SITE PLAN	wz
12	2022/JUN/22	NEW SITE PLAN	YE
11	2022/APR/30	ADP COMMENTS	YE
10	2022/AFR/20	PARKADE EXHAUST	78
,	2022/MAN/09	ISSUE FOR ADP	YE
	2022/FEB/16	NEW SITE PLAN	YR
7	2021/001/25	CITY COMMENTS & NEW SITE PLAN	TRAR
6	2021/SEP/14	EAST PARKADE LINE	YE
5	2021/JUL/29	NEW SITE PLAN	YR
4	2021/MAY/17	NEW SITE PLAN	YR
3	2020/001/29	NEW SITE PLAN- COMMUNITY GARDEN	24
2	2020/SEP/25	NEW SITE PLAN AND CITY COMMENTS	YR
1	2020/MAR/05	CLIENT COMMENTS AND NEW SITE PLAN	YR
NC	DATE	REVISION DESCRIPTION	DR.

PROJECT:

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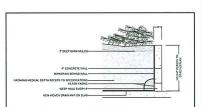
9300 & 9320 CAMBIE RD. RICHMOND, BC

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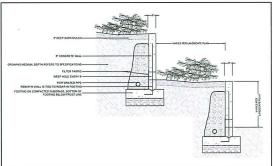
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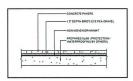
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19151-9.2IP PMG PROJECT NUMBER:



CONCRETE RETAINING WALL ON SLAB

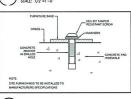


CONCRETE RETAINING WALL ON GRADE

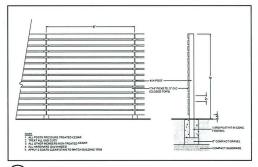


PAVING ON SLAB

SCALE: 1/2"=1"-0"

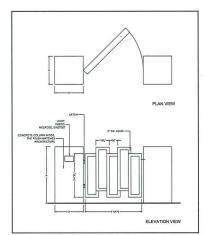


3 SITE FURNITURE MOUNTING

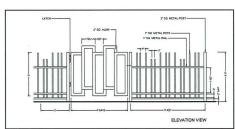


6' HIGH SOLID WOOD FENCE

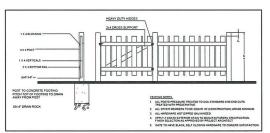
SCALE: 1/2"=1"-0"



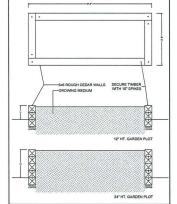
5 42" HIGH METAL GATE WITH COLUMNS
SCALE: 1/2"=1"-0"



6 42" HIGH METAL GATE WITH FENCE



7 42" WOOD FENCE SCALE: 1/2"=1"-0"



8 GARDEN PLOT



KOMPAN SUPERNOVA GREEN LINE (AGE 3-12)



KOMPAN TWO SETTING SWING



KOMPAN PAVO KOMPAN (AGE 5-12) PLAY PAR



 KOMPAN
 PICNIC TABLE

 PLAY PANEL 1 - CREATIVE - SKY
 HAUSER

 4 (AGE 0.5-5)
 HARVEST 118" EXTENSION TABLE



WOOLSEY OUTDOOR PING PONG TABLE



DP PLAN # 3h

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Suile C100 - 4185 Sill Creek Drive Burnaby, British Columbia, NSC 803 p: 604 284-4022

SEAL:

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13	2022/NOV/14	OTY COMMENTS/NEW SITE PLAN	WZ
12	2022/JUN/22	NEW SITE PLAN	YR
11	2022/APR/30	ACP COMMENTS	YR
10	2022/APR/20	PARKADE EXHAUST	YR
9	2022/MAR/09	ISSUE FOR ADP	YTT
8	2022/700/16	NEW SITE PLAN	YR
7	2021/001/25	CITY COMMENTS & NEW SITE PLAN	TRAR
6	2021/SEP/14	EAST PARKAGE LINE	YR
5	2021/JUL/29	NEW SITE PLAN	YTT
4	2021/MAY/17	NEW SITE PLAN	YR
3	2020/007/29	NEW SITE PLAN-COMMUNITY GARDEN	JH
2	2020/JEP/25	NEW SITE PLAN AND CITY COMMENTS	YR
1	2020/MAR/06	CLIENT COMMENTS AND NEW SITE PLAN	YR
NC	DATE	REVISION DESCRIPTION	DR.

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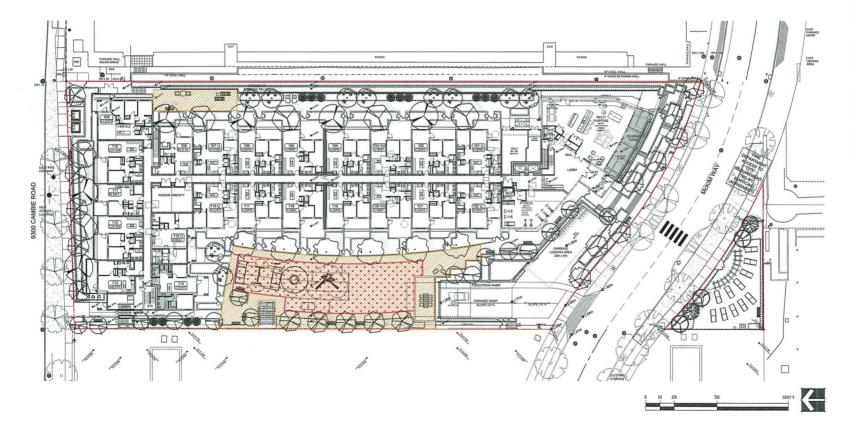
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DRAWING TITLE:

DETAILS

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-	DATE:	20.FEB.27	DRAWING NUMBER
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AMENITY AREA: 848 SQ METERS

PLAY AREA: 384 SQ METERS

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_			_
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13	2022/NOV/14	CITY COMMENTS/NEW SITE PLAN	v
12	2022/JUN/22	NEW SITE PLAN	,
11	2022/APR/30	ADP COMMENTS	,
10	2022/AP9/20	PARKADE EXHAUST	,
,	2022/MAR/09	ISSUE FOR ADP	,
	2022/FEB/16	NEW SITE PLAN	,
7	2021/001/25	CITY COMMENTS & NEW SITE PLAN	YR
6	2021/SEP/14	EAST PARKADE LINE	-
5	2021/JUL/29	NEW SITE PLAN	,
4	2021/MAY/17	NEW SITE PLAN	,
3	2020/001/29	NEW SITE PLAN- COMMUNITY GARDEN	,
2	2020/5EP/25	NEW SITE FLAN AND CITY COMMENTS	,
1	2020/MAR/06	CLIENT COMMENTS AND NEW SITE PLAN	
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9300 & 9320 CAMBIE RD. RICHMOND, BC

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AFAA CALCULATION

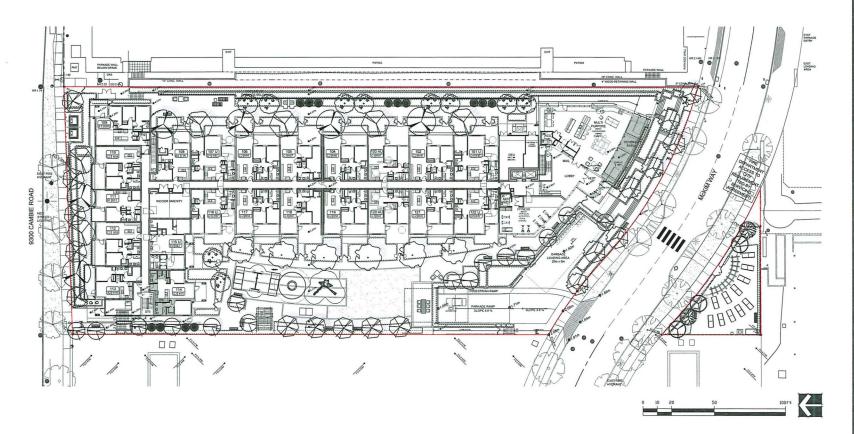
TOTAL SITE AREA: 6,736 M²

SOFT LANDSCAPE AREA: 1,825.54 M² LOT COVERAGE PERCENTAGE: 27.1%

POROUS AREA: 2206.86M² LOT COVERAGE PERCENTAGE: 32.8%

SOFT LANDSCAPE AREA

POROUS AREA EXCEPT FOR SOFT LANDSCAPE AREA



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SEAL

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13	2022/NOV/14	CITY COMMENTS/NEW SITE PLAN	WZ
12	2022/JUN/22	NEW SITE PLAN	YR
11	2022/APR/30	ADP COMMENTS	YIT
10	2022/AFR/20	PARKADE EXHAUST	YR
9	2022/MAT/09	ISSUE FOR ADP	YR
	2022/FEB/16	NEW SITE PLAN	YR
7	2021/OCT/25	CITY COMMENTS & NEW SITE PLAN	18 4 8
6	2021/SEP/14	EAST PARKADE LINE	YR
5	2021/JUL/29	NEW SITE PLAN	YR
4	2021/MAY/17	NEW SITE PLAN	YR.
3	2020/007/29	NEW SITE PLAN-COMMUNITY GATOEN	214
2	2020/567/25	NEW SITE PLAN AND CITY COMMENTS	YR
1	2020/MAR/06	CLIENT COMMENTS AND NEW SITE PLAN	YR
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RESIDENTIAL DEV.

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DRAWING TITLE:

AREA CALCULATION

- 1	DATE:	20.FEB.27	DRAWING NUMBER:
- 1	SCALE:	1/20"=1"-0"	140
- 1	DRAWN:	YR	
- 1	DESIGN:	YR	
- 1	CHK'D:	MCY	OF 10
- 1			

19-151



Report to Development Permit Panel

To: Development Permit Panel

Date: April 21, 2023

From: Wayne Craig

Re:

File: DP 21-932383

Director of Development

Application by Flat Architecture Inc. for a Development Permit at 8951,

8971 Spires Road and 8991 Spires Gate

Staff Recommendation

That a Development Permit be issued which would:

- 1. Permit the construction of 22 townhouse units and two secondary suites at 8951, 8971 Spires Road and 8991 Spires Gate and the surplus portion of Spires Road on a site zoned "Parking Structure Townhouses (RTP4)" zone; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - a) Reduce the minimum lot width from 40 m to 33.5 m; and
 - b) Reduce the minimum lot area from 2,400 m² to 2,000 m².

Wayne Craig

Director of Development

(604-247-4625)

WC:el

Att. 3

Staff Report

Origin

Flat Architecture Inc., on the behalf of 0924206 BC Ltd. (Incorporation number: BC0924206; Directors: Brian R. Purcell, John Young, Dexter Young, Michael Young and Eric Sen Hang Yung), has applied to the City of Richmond for permission to develop 22 residential units and two secondary suites at 8951, 8971 Spires Road and 8991 Spires Gate and the surplus portion of the Spires Road road allowance. The applicant has proposed to purchase the surplus road allowance and consolidate it into the development site. A total of 20 multi-level townhouse units and two ground-level flats fronting Spires Road will be included in the development. The unit sizes range between 71.27 m² (767 ft²) and 139.91 m² (1,505 ft²), providing a mix of two to five-bedroom units. Two of the 20 multi-level townhouse units are proposed to contain a two-bedroom secondary suite fronting Spires Gate. Parking will be provided within the parking structure at grade.

The site is being rezoned from "Single Detached (RS1/E)" zone to "Parking Structure Townhouses (RTP4)" zone for this project under Bylaw 10218 (RZ 18-818420), which received Third Reading following the Public Hearing on January 18, 2021. The site is currently vacant but previously contained three single-family dwellings.

Servicing Agreement

Frontage improvements, including beautification works along the site frontage (including ditch infill) and future back lane, road widening, new fire hydrants, public walkways on-site and upgrades to the storm sewer and sanitary sewer, were secured through the rezoning process and will be constructed through a separate Servicing Agreement (SA 21-930503). The Servicing Agreement must be entered into prior to final adoption of the rezoning bylaw.

Development Information

Please refer to the attached Development Application Data Sheet (Attachment 1) for a comparison of the proposed development data with the relevant Bylaw requirements.

Background

The Spires Road Neighbourhood is identified in the City Centre Area Plan as an area intended to transition from a predominately single-family neighbourhood toward a higher-density neighbourhood.

To the North: Across Spires Gate, Single-family homes on lots zoned "Single Detached (RS1/E)", which are designated as Park under the City Centre Area Plan.

To the South: A recently completed 64-unit high-density townhouse development (RZ 17-

766525 & DP 18-829140) on a lot zoned "Parking Structure Townhouses

(RTP4)".

To the East: Across Spires Road, single-family homes on lots zoned "Single Detached

(RS1/E)", which are designated for medium-density, mid-rise (4-8 storeys) housing with market rentals and affordable housing components, under the

recently updated City Centre Area Plan.

To the West: A 19-unit townhouse development (with a common parking structure), on a lot zoned "Town Housing (ZT46) – South McLennan and Brighouse Village (City Centre)".

Rezoning and Public Hearing Results

The Public Hearing for the rezoning of this site was held on January 18, 2021. No concern regarding the rezoning application was expressed at the Public Hearing.

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the applicable sections of the Official Community Plan and is generally in compliance with the "Parking Structure Townhouses (RTP4)" zone except for the zoning variances noted below.

Zoning Compliance/Variances (staff comments in bold)

The applicant requests to vary the provisions of Richmond Zoning Bylaw 8500 to:

- 1) Reduce the minimum lot width from 40 m to 33.5 m;
 - (Staff support this variance since the subject site is an orphaned site located between Spires Road and a future lane to the west. This corner lot is considered to have its front lot line along Spires Gate and a lot width of approximately 33.5 m. There is no opportunity for the developer to acquire additional property to meet the minimum lot width requirement. This corner site also has an approx. 61 m frontage along Spires Road. The variance was noted at time of rezoning, with no concerns identified at the Public Hearing.)
- 2) Reduce the minimum lot area from 2,400 m² to 2,000 m².

(Staff support this variance since the subject site is an orphaned site located between Spires Gate to the north and a recently approved townhouse development to the south. There is no opportunity for the developer to acquire additional property to meet the minimum lot size requirement. The variance was noted at time of rezoning, with no concerns identified at the Public Hearing.)

Advisory Design Panel Comments

The Advisory Design Panel (ADP) has reviewed the project and supports it. A copy of the relevant excerpt from the Advisory Design Panel Minutes from Wednesday, May 18, 2022 is attached for reference (Attachment 2). The design response from the applicant has been included immediately following the specific Design Panel comments and is identified in 'bold italics'.

Analysis

Conditions of Adjacency

- The proposed form of development on the subject site is the same as those on the surrounding properties to the south and west, which are grade-oriented housing in the form of high-density townhouses (i.e., low-rise, street wall buildings with common parking structures concealed from public view by non-parking uses).
- Location and orientation of windows are carefully considered to minimize the opportunity of looking into close-by windows of existing adjacent developments and units proposed on site.
 Planters are proposed on the roof deck to provide privacy screening between units facing each other across the internal courtyard.
- Lane dedication along the west side of the site for the provision of the future north-south lane parallel to Cooney Road has been secured at Rezoning. Since this future lane along the west property line of the site is not required for access for the proposed development, the lane is not required to be built at this time. The existing site grade along the west edge of the lane dedication area will be maintained to provide an appropriate transition to the adjacent townhouse development to the west. This lane dedication area will be maintained by the site's strata until the lane has become operational; and this arrangement has been secured through the rezoning process.
- To enhance pedestrian circulation within the Spires Road Neighbourhood, a 1.5 m wide SRW along the north side property line of the adjacent development site to the south has been secured for future pedestrian connection between Spires Road and the future back lane. A similar 1.5 m wide SRW along the south property line of the subject site has also been secured at rezoning stage in order to widen the walkway SRW to 3.0 m. Interim sod lawn within the 1.5 m wide SRW on the adjacent property has been provided as part of the adjacent development to the south. As part of this development, the developers are required to remove the sod lawn and construct within the 3.0 m wide SRW a 1.5 m wide concrete walkway and a 0.75 m wide swale for drainage along both edges of the walkway. These arrangements have been secured through the rezoning process and the design and construction of the walkway will be included in the Servicing Agreement.
- Perimeter drainage will be required as part of the Building Permit to ensure storm water is managed and addressed through the development and will not impact the neighbouring properties.

Urban Design and Site Planning

- The development will contain 22 units, including:
 - Two single-level Basic Universal Housing units at grade with direct access to Spires Road and direct access to the parking structure. The BUH units are two-bedroom units and are approximately 71 m² (767 ft²) in size.
 - Two four-storey units each with a secondary suite at grade. The secondary suites are two-bedroom units and are approximately 65 m² (700 ft²) in size. The secondary suites will have a direct, street-level entry from Spires Gate. The principal units will have direct access from the podium. These homes will also have direct access to the parking structure.

- O Two four-storey units each with a rec room and bathroom on the ground level. These homes will have a direct, street-level entry from Spires Gate, as well as direct access from the podium and the parking structure.
- o 16 three-storey townhouse units with main unit entry located on the podium level.
- Three townhouse blocks are proposed and are positioned to enclose a parking structure at grade. The townhouse blocks are connected by the outdoor courtyard space on the podium, above the parking structure.
- Pedestrian access to the podium (via exterior stairs) will be provided on both the Spires Road and the Spires Gate frontages.
- An enclosed lobby is also proposed along the Spires Road frontage to provide a secured space for the mailbox kiosk, elevator to the podium level and access to the enclosed parking area.
- Vehicular access to the parking structure will be from Spires Road.
- 31 residential parking spaces are proposed, which exceeds the minimum bylaw requirement.
- The proposal will feature 16 parking spaces in a tandem arrangement. This arrangement is consistent with the tandem parking provision of Richmond Zoning Bylaw 8500. A restrictive covenant to prohibit the conversion of the tandem garage area into habitable space, and to ensure that both parking spaces be assigned to the same dwelling unit where two parking spaces are provided in a tandem arrangement, has been secured at rezoning.
- A total of three accessible residential parking stalls are to be provided on site; two spaces will be assigned to the two Basic Universal Housing units proposed, and one space will be designated for visitor parking.
- A total of five visitor parking spaces (including one accessible parking stall) are to be provided throughout the site. The number of visitor parking spaces proposed is in compliance with the minimum bylaw requirement.
- Both internal and external bicycle parking spaces have been incorporated into the proposal and are in compliance with the Zoning Bylaw requirements.
- The enclosed garbage room housing garbage, recycling and organics storage bins is proposed to locate within the parking structure, by the security gate, and adjacent to the loading area.
- Indoor amenity space is not proposed on-site. A \$44,225.00 cash-in-lieu contribution has been secured as a condition of rezoning approval, consistent with the Official Community Plan (OCP).
- The overall size of the proposed outdoor amenity spaces comply with the Official Community Plan (OCP) requirements. The locations and sizes of the outdoor amenity spaces are appropriate for providing open landscape and amenity spaces convenient to all units.
- All of the units will have private outdoor areas at grade and/or on the elevated podium
 overtop the parking structure. All ground-level flats and secondary suites will have a private
 outdoor space consisting of a front yard on the street level; all townhouse units will have a
 private outdoor space consisting of a patio on the podium level and a roof top deck
 overlooking the internal courtyard.

• While the configurations of some the proposed yard/patio spaces at grade and/or on the podium level are slightly shallower than what is encouraged under the Development Permit Guidelines, the functionality of those yard spaces have not been compromised. Each of the proposed private outdoor space at grade includes a patio area that is large enough to accommodate a table with seating, a lawn area and/or a small garden of perennials, shrubs, with a tree to provide shade. Each of the proposed private outdoor space on the podium level is large enough to host a BBQ and seating area with a table.

Architectural Form and Character

- The proposed development embodies the Tudor style architecture with varying façade treatment at key points, steep roof pitches, proportionate windows set symmetrically into traditional massing forms and projecting bays with prominent gables.
- The building massing of the four-storey townhouse units along the road frontages are reduced by enclosing the top floor under the pitched roof.
- The top floor is also stepped back to increase sun penetration opportunity onto the internal courtyard on top of the parking podium.
- The proposal reinforces a pedestrian friendly streetscape along the road frontages with individual gates/walkways, street level entries and small gated front yards.
- All dwelling units have direct entrances either from the street or the internal courtyard on the podium. All entrances feature private yards and a lower entry roof to reflect a single-family character.
- The proposed building materials (brick veneer, high density fibre cement boards, stucco, wood trim, post, fascia and barge board, shingles and divided windows) are generally consistent with the Official Community Plan (OCP) Guidelines.
- Fibre cement boards and stucco are the two dominant materials used on the elevations. Façade details and trim contrast the background colours of the elevations. Asphalt shingles are used to accentuate a single family character. Brick veneer is used as accent material in the lower portions of the buildings. Board and batten with contrasting colours are used on the gable ends to reflect the Tudor style architecture.

Landscape Design and Open Space Design

- 19 bylaw-sized trees and one hedge row on the subject development site were assessed at the rezoning stage, and all of these trees and hedge row are identified for removal due to poor condition.
- Based on the 2:1 tree replacement ratio goal stated in the Official Community Plan (OCP), 38 replacement trees are required. The applicant is proposing to plant eleven replacement trees on-site, including six conifer and five deciduous trees at grade.
- The applicant has agreed to provide a voluntary contribution of \$20,250.00 to the City's Tree Compensation Fund in lieu of planting the remaining 27 replacement trees.
- A pedestrian-oriented streetscape along the road frontages is proposed with a defined edge with layered shrub planting, metal picket fence and slightly raised patios.
- Each ground-oriented unit will have a private front yard with a small lawn area and/or patio as well as a tree and landscape area to generate animation along the streetscape.

The front yards will be separated with a low metal fence with landscaping to provide privacy for individual units.

- At the intersection of Spire Road and Spires Gate, low-level ornamental shrubs will be provided to allow for clear visibility for vehicular movements.
- The area in front of the main lobby will be treated with permeable paving and highlighted with trees on either side to accentuate the entrance to the building.
- Decorative concrete paving is proposed at the vehicle entry of the site and permeable paving will be used to delineate the loading area by the vehicle entry.
- The west elevation will be screened by vigorous vines, supported by cable trellises.
- Circulation around the building is provided by a concrete pathway along the south and west property line.
- The courtyard on the podium level provides private patio spaces for residents.

 Low cast-in- place planters are proposed along the common walkway to establish an appealing and intimate residential character to encourage socialization and provide for casual surveillance of the common outdoor area.
- There are two outdoor spaces on the podium level:
 - O A children's play area is proposed at the northwest corner of the courtyard. Play equipment has been chosen to fit into the play area and to provide different play opportunities (i.e., climbing, social, imagination, balance and motor skills) that can be used by different age groups and for multiple purposes. A bench is also provided for caregivers.
 - Another outdoor amenity space is proposed at the southeast corner of the courtyard.
 This space is designed as a social area for more passive activities. Features proposed within this outdoor amenity space include a dining area with an outdoor kitchen and a community garden area with accessible planting pods.
- Planters are proposed at the roof decks to enhance privacy between units facing each other.
- A smart irrigation system fine-tunes its watering based on the amount of light, soil condition and local weather forecast is proposed to ensure continued maintenance of live landscaping.
- In order to ensure that the proposed landscaping works are completed, the applicant is required to provide a landscape security of \$187,615.31 in association with the Development.

Crime Prevention Through Environmental Design

- Site lighting and clear sight lines provide unobstructed views of the surrounding area. Walkways are direct and open.
- Wall-mounted lights are proposed on all sides of the parking podium. These lights are provided only where building-mounted lights are incapable of illuminating any external spaces. These lights are indirect and do not offer any unwanted glare with built-in anti-glare shading system.
- Plantings near residential entries are low to maximize views and casual surveillance opportunities of common areas.
- Expansive glazing for each unit increases the visual presence and surveillance along the road frontages, future back lane, outdoor amenity spaces and the courtyard on the podium level.

Sustainability

- The project will be designed to meet Step Code 3 requirements of the BC Energy Step Code, including energy modelling.
- No thermal breaks are required as no balconies are being proposed. The roof decks will be insulated from below with minimum R40 insulation to meet the minimum requirement.
- Sound transmission through the façade has been evaluated; conventional exterior construction, including windows and doors with standard thermal glazing satisfies the minimum requirements.
- Energy Star appliances, water sense toilets and energy efficient lighting (LED or CFL) will also be provided.

Accessible Housing

- The proposed development includes two BUH units that are designed to be easily renovated to accommodate a future resident in a wheelchair. These single-storey units are required to incorporate all of the accessibility provisions listed in the Basic Universal Housing Features section of the City's Zoning Bylaw, and are permitted a density exclusion of 1.86 m² (20 ft²) per unit.
- All of the proposed units incorporate aging-in-place features to accommodate mobility constraints associated with aging. These features include:
 - o Stairwell handrails;
 - o Lever-type handles for plumbing fixtures and door handles; and
 - Solid blocking in washroom walls to facilitate future grab bar installation beside toilets, bathtubs and showers.

Conclusions

As the proposed development would meet applicable policies and Development Permit Guidelines, staff recommend that the Development Permit be endorsed, and issuance by Council be recommended.

Edwin Lee

Planner 2

(604-276-4121)

EL:js

Att. 1: Development Application Data Sheet

2: Excerpt from Advisory Design Panel Meeting Minutes (March 23, 2002)

3: Development Permit Considerations



Development Application Data Sheet

Development Applications Department

DP 21-932383	Attachment 1

Address: 8951, 8971 Spires Road and 8991 Spires Gate

Applicant: Flat Architecture Inc. Owner: 0924206 BC Ltd.

Planning Area(s): City Centre

Floor Area Gross: 2,660.75 m² Floor Area Net: 2,392.95 m²

	Existing	Proposed		
Site Area:	2,319.44 m²	2,068.0 m ²		
Land Uses:	Single-Family Residential Multiple-Family Residential			
OCP Designation:	Low-Density Residential	No Change		
	City Centre Area Plan Amended July 18, 2022:	Under the provisions for instream applications:		
Area Plan Designation:	Urban Centre T5	City Centre Area Plan: General Urban T4		
	Sub-Area B.2: Mixed Use – Mid-Rise Residential & Limited Commercial	Sub-Area B.1: Mixed Use – Low-Rise Residential & Limited Commercial		
Zoning:	Single Detached (RS1/E)	Parking Structure Townhouses (RTP4)		
Number of Units:	3	22		

	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	Max. 1.20	1.16	none permitted
Lot Coverage – Building:	Max. 50%	48.9%	none
Lot Coverage – Non-porous Surfaces:	Max. 80%	66.8%	none
Lot Coverage – Landscaping:	Min. 20%	20.0%	none
Setback – Front Yard - Spires Gate (m):	Min. 3.0 m	3.0 m	none
Setback – Exterior Side Yard – East – Spires Road (m):	Min. 3.0 m	3.0 m	none
Setback – Interior Side Yard - West (future lane) (m):	Min. 1.5 m	1.5 m	none
Setback – Rear - South (m):	Min. 1.5 m	1.5 m	none
Height (m):	Max. 15.0 m (4 storeys)	14.8 m (4 storeys)	none
Lot Depth:	Min. 30.0 m	61.22 m	none

Lot Width:	40 m	33.5 m Var	
Site Area:	Min. 2.400 m ² 2.068 m ²		Variance Requested
Off-street Parking Spaces – Regular (R) / Visitor (V):	1.2 (R) and 0.2 (V) per unit	1.4 (R) and 0.2 (V) per unit	none
Off-street Parking Spaces – Total:	27 (R) and 5 (V)	31 (R) and 5 (V)	none
Landem Parking Spaces: Lesigential spaces		12 + 4 extra small parking spaces	none
Small Car Parking Spaces Max. 50% when 31 or more spaces are provided on-site (36 x Max. 50% = 18)		10	none
Handicap Parking Spaces: Min. 2% when 11 or most spaces are required (36 x 2% = 1 spaces)		3	none
Bicycle Parking Spaces – Class 1 / Class 2:	1.25 (Class 1) and 0.20 (Class 2) per unit	1.63 (Class 1) and 0.22 (Class 2) per unit	none
Off-street Parking Spaces – Total:	28 (Class 1) and 5 36 (Class 1) and (Class 2) 5 (Class 2)		none
Amenity Space – Indoor:	Min. 100 m² or Cash-in- lieu	Cash-in-lieu	none

Excerpt from the Minutes from The Design Panel Meeting

Wednesday, May 18, 2022 – 4:00 p.m. Rm. M.1.003 Richmond City Hall

1. DP 21-932383 - 22 TOWNHOUSE UNITS OVER A PARKING PODIUM

ARCHITECT: FLAT Architecture

LANDSCAPE Architecture Panel Inc.

ARCHITECT:

PROPERTY 8951, 8971 Spires Road and 8991 Spires Gate

LOCATION:

Applicant's Presentation

Architect Rajinder Warraich, FLAT Architecture, Inc. and Landscape Architect Ruchir Dhall, Architecture Panel Inc., presented the project and answered queries from the Panel.

Panel Discussion

Comments from Panel members were as follows:

• the project was presented well by the applicant; the materials package is comprehensive and easy to understand;

Noted.

the targeted insulation R-values for the proposed design look good; however, concerned on U- values for windows; the targeted 1.4 U-value for windows could be improved to a starting point of 0.39 which is seen in many existing buildings;

U value of windows to be based on energy modelling for Step code 3. It can vary from .39 to 1.4 as per energy model report.

• consider changing the language for solar heat gain coefficient (SHGC) from "0.32 or higher" to "0.32 or lower" as the latter values are better;

SHGC value to be .32 or lower as requested.

• consider a minimum HRV Sensible Recovery Efficiency (SRE) of 85% and not 65% due to improvements in products and technology;

Increased to 85 %.

• the proposed gas or propane fire pit on the podium level outdoor amenity area is not consistent with the overall sustainability objective of the project; consider non fossil fuel-powered alternates such as an electric fire pit;

Fire pit Removed as suggested.

 appreciate the general landscape approach for the project and the hierarchy of outdoor spaces;

Noted.

• review the size and depth of planters proposed at the podium level to ensure they are adequate for planting and establishing trees; Planting depth and tree location;

Significant amendments have been done at the podium level despite having adequate soil volume for small trees (~750mm). They have been replaced with large shrubs like rhododendron vulcan, which assume similar height to the smaller trees creating a much thicker and colorful foliage presence. Also, significant sections of the hard patios have been substituted with water absorbent sod to increase the permeable areas.

appreciate the separation of the active from passive spaces in the outdoor amenity area; however, review the size of the play equipment and consider other alternatives considering the tightness of the outdoor amenity area; Outdoor;

Amenity area redesigned based on ADP discussion and comments. i.e., the consolidated dining and congregation area proposed towards the outdoor cooking areas to the N and the vegetable planters moved to the S so that both areas have consolidated sections with minimal breaks. Also, the outdoor firepit was taken out to achieve the above configuration per the ADP recommendations.

• ensure that picnic tables and planters at the community garden area are wheelchair accessible;

Yes, all outdoor amenity is accessible.

• look at fencing details to ensure appropriate distance between the pickets as the project moves forward to the next stages of the development process;

Distance between pickets is less than 4inch and meet BCB 2018.

there is too much landscaping on the limited open spaces in the project; consider simplifying the landscaping and not program every outdoor amenity space, e.g. a green space could be more appropriate for some areas than installing play areas and outdoor furniture;

The landscaping has been simplified by substituting the thick tree configuration with large shrubs on the podium level. Furthermore, simplification of landscape programming is what we feel an optimum solution to reducing the intense landscaping pointed above.

• overall, the project is well thought out and laid out considering the size of the subject site and the proposed number of housing units;

Noted.

• consider integrating a parcel delivery drop off area close to the mailbox in the main lobby of the building;

Parcel Delivery area is provided in the vestibule near main entrance. Vestibule with doors in 2 tiers (first door accessible to general public and second door accessible to authorized persons) are provided for security.

 consider adding more details to reflect a true Tudor style considering that the subject site is in a transition area from single-family to higher density residential developments;

The overall design of the buildings reflect a true Tudor style. More wood trims have been added in the elevations, window and door trims have been made more decorative, pitch of the roofs is steep and more masonry has been added on level 1 to give grounding effect.

• note that there is a difference between the renderings presented by the applicant and the landscape plans at the northeast corner of the site; the landscape plans indicate significant grass as opposed to the renderings which show thicker plantings; clarify the difference, including the proposed signage at the northeast corner:

Renderings updated and coordinated with landscape drawings.

- intensive planting at the northeast corner of the subject site could help soften
 the transition into the neighbourhood and create a gateway condition;
 Planting soften along northeast corner as suggested. Very distinct and low
 height perennials and grasses are proposed outside of the yard hedging to
 create a visually attractive but non-blocking vegetation arrangement.
- stairways that connect the ground level to the podium level look daunting; consider installing a landing halfway up the stairs to make them more accessible to people with mobility issues;

Provision of landing is not mandatory as per the code. Only the landing in main staircase has been removed because there isn't sufficient space to provide the requisite number of steps after the setback.

• ensure adequate wheelchair turnaround space for at-grade patios for Basic Universal Housing (BUH) units to enhance their accessibility;

Turnaround provided as 1.5 walkways are good for turnarounds.

consider toning down the differences in character, e.g. materials, colour and texture on the ground floor facades of the building to achieve more consistency; the stucco on the west ground floor façade appears out of character with the rest of the building facades; consider relating the stucco to the other building facades by either adding brick or fiber cement on the west ground floor façade; Noted,

The material is revised and brick added as per suggestion.

• the exterior treatment for the building base facing the street appears flat and is less successful than the treatment for the building base facing the podium; the in and out relationship with the bay windows facing the podium successfully breaks down the building mass;

The main entrance canopies to the units and entrance to the main lobby break the continuity of the material at grade level. The overall building is small and the introduction of brick cladding on the ground floor provides heavier base.

• the metal and glass guardrails appear out of character with the rest of the detailing on the building; look at the metal picket fence on the landscape drawings and consider a greater relationship of the various fencing/guardrail materials;

Metal and glass guard changed to Picket fence style.

the metal and glass guardrails on the roof deck facing the podium are pushed forward a bit too much and appear more prominent than the traditional elements on the façade of the lower levels; consider pushing back the metal and glass guardrails to provide more prominence to the traditional elements;

We have converted all railings to picket style fence and have not pushed the railing inwards. Pushing the railing inwards will result in reduction of roof top patio areas.

• the second bedroom of BUH Unit 101 does not have a separate bathing space; the resident will have to go into the accessible bathroom to the master bedroom;

The entire design of BUH units and Level 1 has changed after the ADP meeting; separate bathing space added in the 2nd bathroom of both BUH units.

• in general, the kitchen space looks tight with respect to turning radii; ensure that there is a five-foot turning circle within the working area of the kitchen or clarify if that is being achieved;

The entire design of BUH units and Level 1 has changed after the ADP meeting and this concern has been addressed.

look at the proximity of the exit from the elevator to the top of the exit stairs on the podium level which could pose a safety concern for a person in wheelchair; review how those elements are related to one another; also look at the screening of exposed condensers in the area if they fit within the overall concept of the project;

In previous submissions the door of the elevator lobby was opening right in front of the top of the staircase. Now the position of this door has been changed to the side of the lobby and it opens on the podium pathway which does not pose any safety concern for a person on wheelchair. The condensers are well screened behind landscape planters.

 appreciate the provision of automated doors in certain locations of the building and not just at the main entrance; also appreciate the installation of wiring for automated door openers for entrances to units;

Noted.

 appreciate the accessibility of gathering places and common amenities such as garbage and recycling;

Noted.

• consider locating the two designated accessible parking stalls for BUH Units 101 and 102 to the northeast corner behind Unit 102 to make them more accessible to the two BUH units; also consider relocating the accessible visitor parking stall next to the accessible parking stall (i.e., stall number 20) to parking stall number 15; the proposal would eliminate the unnumbered stall on the northeast side but would enlarge the size of all accessible parking stalls in the proposed development;

The accessible parking for BUH Unit 1 and 2 are located right near there entrances in the new layout of level 1.

• consider installing doors swinging into the bedroom instead of into the washroom or installing pocket doors for the accessible washrooms of BUH units to enhance their accessibility to people in wheelchairs; updated,

The bathroom door opens towards the bedroom which addresses the concern in this comment.

- consider assigning mailboxes for BUH units which are between 57 cm to 110 cm from the ground level to make them accessible to people in wheelchairs;
 Noted.
- appreciate the applicant for identifying CPTED strategies for the project;

Noted.

the landscape design for the project will work well with the neighbourhood;
Noted.

 agree with the Panel comment regarding the second bedroom of BUH unit 101 not having access to a bathing space without going to the ensuite washroom for the master bedroom;

Updated.

the location of the stove and refrigerator for A3 units are very close to each other, which could potentially impact the working of these appliances;

Updated.

• look at the door swings not only of the BUH units but also of the refrigerators to ensure ease of opening;

The entire design of BUH units and Level 1 has changed after the ADP meeting. This concern has been addressed in the new design.

• support the Panel comment that the targeted U-values for windows should be pushed further;

U value to decrease based on the Energy modelling and step code requirements.

ensure accessibility of BUH units to adjacent open spaces;

The patio levels and the levels of the parkade have been kept at same levels as the BUH units for easy accessibility. Grade of all slopes/ramps leading up to the BUH units is less than 5%.

• the aluminum and glass guardrails are very prominent and out of character, particularly in the courtyard as they are installed on the edge of the roof deck; support the Panel comment to recess the aluminum and glass guardrails if they will be retained or consider installing a picket style fence;

We have converted all railings to picket style fence and have not pushed the railing inwards. Pushing the railing inwards will result in reduction of roof top patio areas.

• the aluminum and glass guardrails on Level 2 appear too finicky and busy; a picket fence would be more appropriate or if the same materials for the guardrails are retained, consider recessing them back and not repeating them on the roof deck; and

All railings including guardrails converted to picket style railings.

support the Panel comment that the architectural expression on Level 1 on the south and west elevations are out of character with the rest of the development; the brick works well in other elevations; however, consider strategically using brick, e.g. in the corners and under the stairs due to cost considerations or if not using brick, consider using an alternate material and colour that blends better with the rest of the development considering that the west elevation will become prominent when the future lane and sidewalk will be constructed.

The material is revised and brick added as per suggestion.

Panel Decision

It was moved and seconded

That DP 21-932383 be supported to move forward to the Development Permit Panel subject to the applicant giving consideration to the comments of the Advisory Design Panel.

CARRIED

ATTACHMENT 3



Development Permit Considerations

Development Applications Department 6911 No. 3 Road, Richmond, BC V6Y 2C1

Address: 8951, 8971 Spires Road and 8991 Spires Gate

File No.: <u>DP 21-932383</u>

Prior to approval of the Development Permit, the developer is required to complete the following:

- 1. Receipt of a Letter of Credit for landscaping in the amount of \$187,615.31 (based on the costs estimate provided by a CSLA registered landscape Architect including 10% contingency).
- 2. City acceptance of the developer's offer to voluntarily contribute \$14,250 to the City's Tree Compensation Fund for the planting of replacement trees within the City.

Prior to Building Permit Issuance, the developer must complete the following requirements:

- 1. Submission of a Construction Parking and Traffic Management Plan to the Transportation Department. Management Plan shall include location for parking for services, deliveries, workers, loading, application for any lane closures, and proper construction traffic controls as per Traffic Control Manual for works on Roadways (by Ministry of Transportation) and MMCD Traffic Regulation Section 01570.
- 2. Incorporation of accessibility measures in Building Permit (BP) plans as determined via the Rezoning and/or Development Permit processes.
- 3. If applicable, payment of latecomer agreement charges associated with eligible latecomer works.
- 4. Obtain a Building Permit (BP) for any construction hoarding. If construction hoarding is required to temporarily occupy a public street, the air space above a public street, or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For additional information, contact the Building Approvals Department at 604-276-4285.

Note:

- * This requires a separate application.
- Where the Director of Development deems appropriate, the preceding agreements are to be drawn not only as personal covenants of the property owner but also as covenants pursuant to Section 219 of the Land Title Act.
 - All agreements to be registered in the Land Title Office shall have priority over all such liens, charges and encumbrances as is considered advisable by the Director of Development. All agreements to be registered in the Land Title Office shall, unless the Director of Development determines otherwise, be fully registered in the Land Title Office prior to enactment of the appropriate bylaw.
 - The preceding agreements shall provide security to the City including indemnities, warranties, equitable/rent charges, letters of credit and withholding permits, as deemed necessary or advisable by the Director of Development. All agreements shall be in a form and content satisfactory to the Director of Development.
- Additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering may be required including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.
- Applicants for all City Permits are required to comply at all times with the conditions of the Provincial Wildlife Act and Federal Migratory Birds Convention Act, which contains prohibitions on the removal or disturbance of both birds and their nests. Issuance of Municipal permits does not give an individual authority to contravene these legislations. The City of Richmond recommends that where significant trees or vegetation exists on site, the services of a Qualified Environmental Professional (QEP) be secured to perform a survey and ensure that development activities are in compliance with all relevant legislation.

Signed	A	Date	



Development Permit

No. DP 21-932383

To the Holder: Flat Architecture Inc.

Property Address: 8951, 8971 Spires Road and 8991 Spires Gate

Address: 6321 King George Boulevard, Unit 209

Surrey, BC V3X 1G1

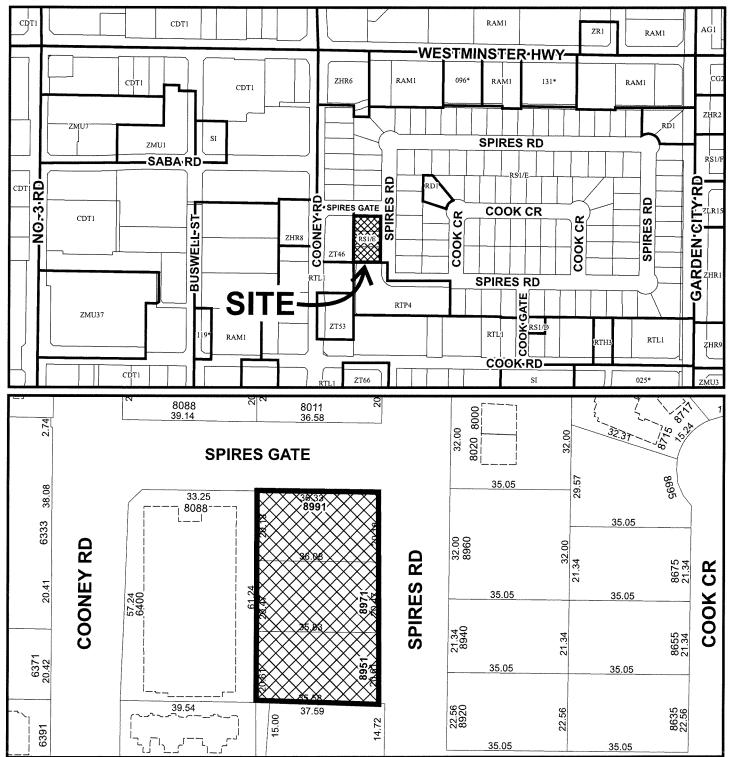
1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.

- 2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
- 3. The "Richmond Zoning Bylaw 8500" is hereby varied to:
 - a) Reduce the minimum lot width from 40 m to 33.5 m; and
 - b) Reduce the minimum lot area from 2,400 m² to 2,000 m².
- 4. Subject to Section 692 of the Local Government Act, R.S.B.C.: buildings and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans #1 to #46 attached hereto.
- 5. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
- 6. As a condition of the issuance of this Permit, the City is holding the security in the amount of \$187,615.31 to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
- 7. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.

Development Permit No. DP 21-932383

To the Holder:	Flat Architecture Inc.			
Property Address:	8951, 8971 Spires Road and 8991 Spires Gate			
Address:	6321 King George Boulevard, Unit 209 Surrey, BC V3X 1G1			
	•			
AUTHORIZING RESOLUTEDAY OF ,	ION NO. ISSUED BY THE COUNCIL THE			
DELIVERED THIS D	AY OF .			
MAYOR				







DP 21-932383 SCHEDULE "A"

Original Date: 05/19/21

Revision Date:

Note: Dimensions are in METRES

22 UNITS TOWNHOUSE DEVELOPMENT,

8951,8971 SPIRES ROAD, SPIRES GATE, RICHMOND, B.C

PROJECT RECONCILIATION		DP NO: 21-932383				
CIVIC ADDRESS:		8951, 8971 Spires	RD & 8991 Spire	s Gate Richmond BC		
			_			
LOTAREA						
	TOTAL:	24,966.24		2319.44 m2		
	DEDICATIONS:	2,704.34		251.24 SQMT		
	NET AREA:	22,261.90	SQ.FT.	2068.2 SQMT		
7011110						
ZONING	CURRENT	DO	4 /=			
	PROPOSED	RS RT				
	PROPOSED	KII				
F.A.R CALCUL	ATIONS					
I .A.IN CALCOL	Allono					
	FAR PROPOSED			1.17	on net	
FLOOR AREA	(EXCLUDING PARKING)					
	LEVELS			RESIDENTIAL		
				NET		
	PARKADE LEVEL- LVL 1			4,249.00 Sq.Ft.	394.75 M2.	
	PODIUM LEVEL- LVL 2			9,835.00 Sq.Ft.	913.70 M2.	
	THIRD FLOOR - LVL 3			9,868.00 Sq.Ft.	916.77 M2.	
	FOURTH FLOOR- LVL4			4,688.00 Sq.Ft.	435.53 M2.	
	GROSS TOTAL AREA			28,640.00 Sq.Ft.	2,660.75 M2.	
	Deduction of 10m2 per stair per unit for 20 units			2,655.46 Sq.Ft.	246.70 M2.	
	(see table on right)					
	NET TOTAL AREA		*	25,984.54 Sq.Ft.	2,414.05 Sq.Ft.	
				OUTDOOR AMENITY SPACE:		
				REQUIRED 6m2 per unit	1420 ft2 (132 m2)	
				PLUS 10% OF NET SITE AREA	2227 ft2 (206.9 m2)	
				TOTAL REQUIRED	3647 ft2 (338.9 m2)	
				PROPOSED	4430 ft2 (411.56 m2	
UNIT COUNT:						
	3 bed room Units	18				
	2 Bedroom H/C accessible Units (BUH units)	2				
	3 Bed TH units c/w Seconday Suite	2				
	Total No of Units	22				
OFF STREET						
	RESIDENCES:				SAY	
	REQUIRED	TOWNHOUSE	22 x 1.2	= 26.4 SPACES		
	PROVIDED			All Units to have Level 2 Charging Stations.	31 SPACES	
	VISITORS					
	REQUIRED		22 X .2	= 4.4 SPACES		
	PROVIDED				5 SPACES	
	TANDEM DADIGING 1001000		TOTAL		36 SPACES	
	TANDEM PARKING ASPACES					
	Max 50 % of required spaces (50 % of 32)		16			
	PROVIDED	-	16			
	SMALL CAR SPACES:	1				
	PROVIDED			2 Visitor and 8 Residential		
	FROVIDED			2 VISIOI AND O INCOMENTAL		
	ACCESSIBLE PARKING SPACES:					
	REQUIRED		2 % of 33 spaces	s .66 spaces say 1 space		
	PROVIDED		2 70 01 00 Spaces	3 Parking Spaces in total (2 for Accessible		
				units+1 for Visitor)		
BICYCLE PAR	KING					
All	CLASS 1					
	REQUIRED		22 X 1.25	27.5	28 SPACES	
	PROVIDED		/ 1/20	21.5	33 SPACES	
	CLASS 2				OU OI HOLO	
		1				
	REQUIRED		22 X .2	A A	5 SPACES	

					UN	IT TYPES & A	REAS	
1			UNIT ARE	EAS (FT2)		TOTAL UNIT	TOTAL UNIT	
	UNIT NO.	LEVEL1	LEVEL2	LEVEL3	LEVEL4	AREA IN FT2	AREA IN M2	UNIT TYPE
ł	1	767.573	0	0	0	767.573	71.31	2 BEDROOM
	2	767.149	0	0	0	767.149	71.27	2 BEDROOM
	3	0	505.437	512	246.581	1264.018	117.43	3 BEDROOM
	4	0	477.66	536.137	260	1273.797	118.34	3 BEDROOM
	5	0	454.58	475.8	233.412	1163.792	108.12	3 BEDROOM
	6	0	477.66	536.137	260	1273.797	118.34	3 BEDROOM
l	7	0	454.58	475.8	233.412	1163.792	108.12	3 BEDROOM
	8	0	454.8	475.77	224	1154.57	107.26	3 BEDROOM
1	9		535.4	554	269.13	1358.53	126.21	3 BEDROOM
	9A	697.48	0	0	0	697.48	64.80	2 BEDROOM SECONDARY SUITE
	10	345.65	460.65	475.65	224	1505.95	139.91	3 BEDROOM
	11	0	460.65	475.65	224	1160.3	107.80	3 BEDROOM
l	12	0	460.65	475.65	224	1160.3	107.80	3 BEDROOM
1	13	345.65	460.65	475.65	224	1505.95	139.91	3 BEDROOM
	14		505	522	250	1277	118.64	3 BEDROOM
	14A	740.49	0	0	0	740.49	68.79	2 BEDROOM SECONDARY SUITE
l	15	0	454	570	252.56	1276.56	118.60	3 BEDROOM
	16	0	444	470.65	219	1133.65	105.32	3 BEDROOM
	17	0	444	470.65	219	1133.65	105.32	3 BEDROOM
	18	0	444	470.65	219	1133.65	105.32	3 BEDROOM
	19	0	444	470.65	219	1133.65	105.32	3 BEDROOM
	20	0	444	470.65	219	1133.65	105.32	3 BEDROOM
1	21	0	471.58	501.99	207.05	1180.62	109.68	3 BEDROOM
1	22	0	483.2	512	246	1241.2	115.31	3 BEDROOM

		STAIRCASE DEDUCTION ON HIGHE
UNIT NO.	STAIRCASE DEDUCTION IN M2	STOREY IN M2
1	0.00	0.00
2	0.00	0.00
3	7.43	4.08
4	7.43	4.08
5	7.43	4.08
6	7.43	4.08
7	7.43	4.08
8	7.43	4.08
9	10	4.08
10	10	4.08
11	8.18	4.08
12	8.18	4.08
13	10	4.08
14	10	4.08
15	7.53	3.90
16	8.08	4.08
17	8.08	4.08
18	8.08	4.08
19	8.08	4.08
20	8.08	4.08
21	8.08	4.08
22	8.08	4.08
TOTAL	165.05	81.42
G	RAND TOTAL	246.47

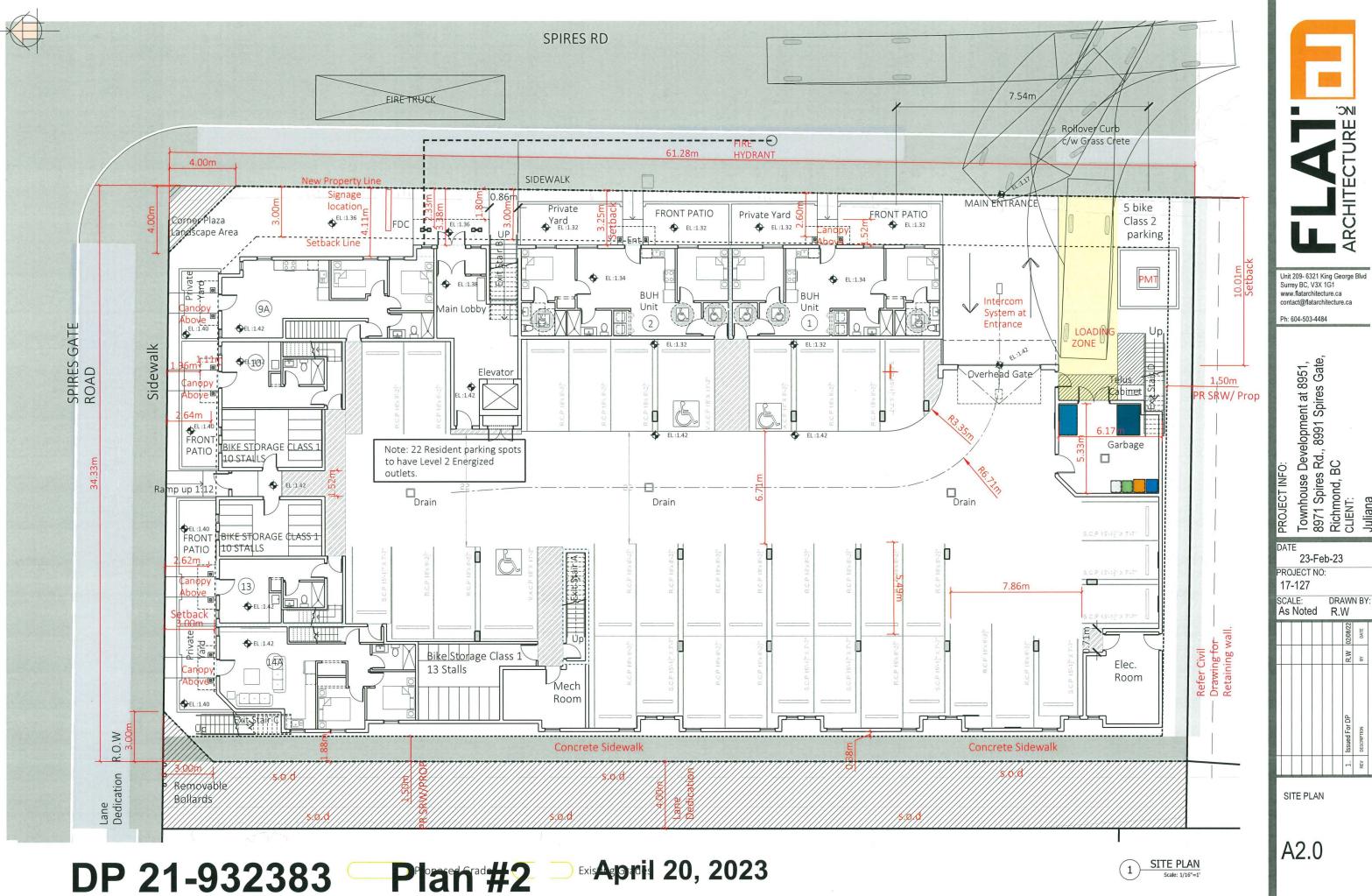
Unit 209- 6321 King George Bl Surrey BC, V3X 1G1 www.flatarchitecture.ca

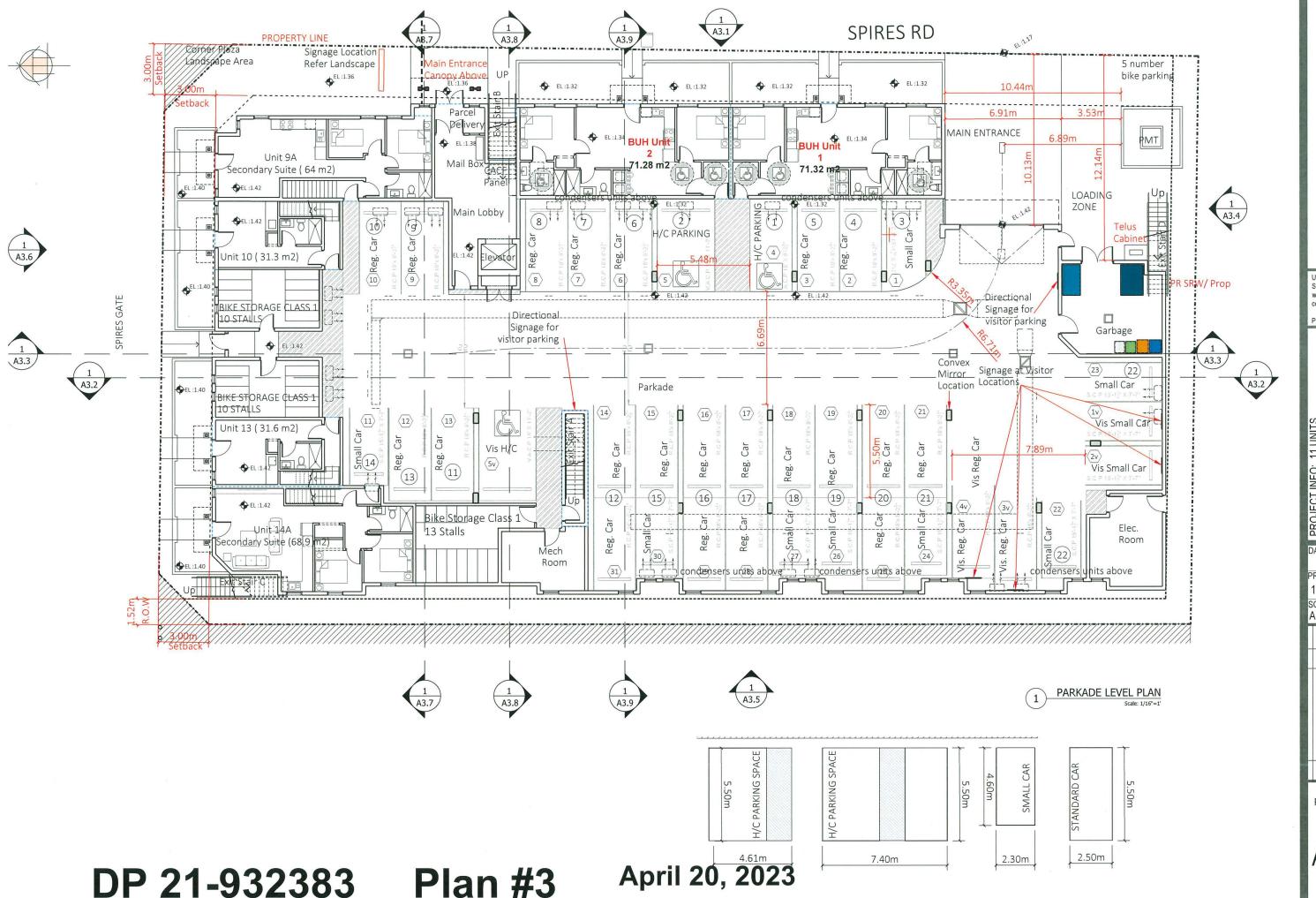
Ph: 604-503-4484

PROJECT INFO: 11 UNITS
Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC

31-Mar-23 PROJECT NO: As Noted R.W

A0.1

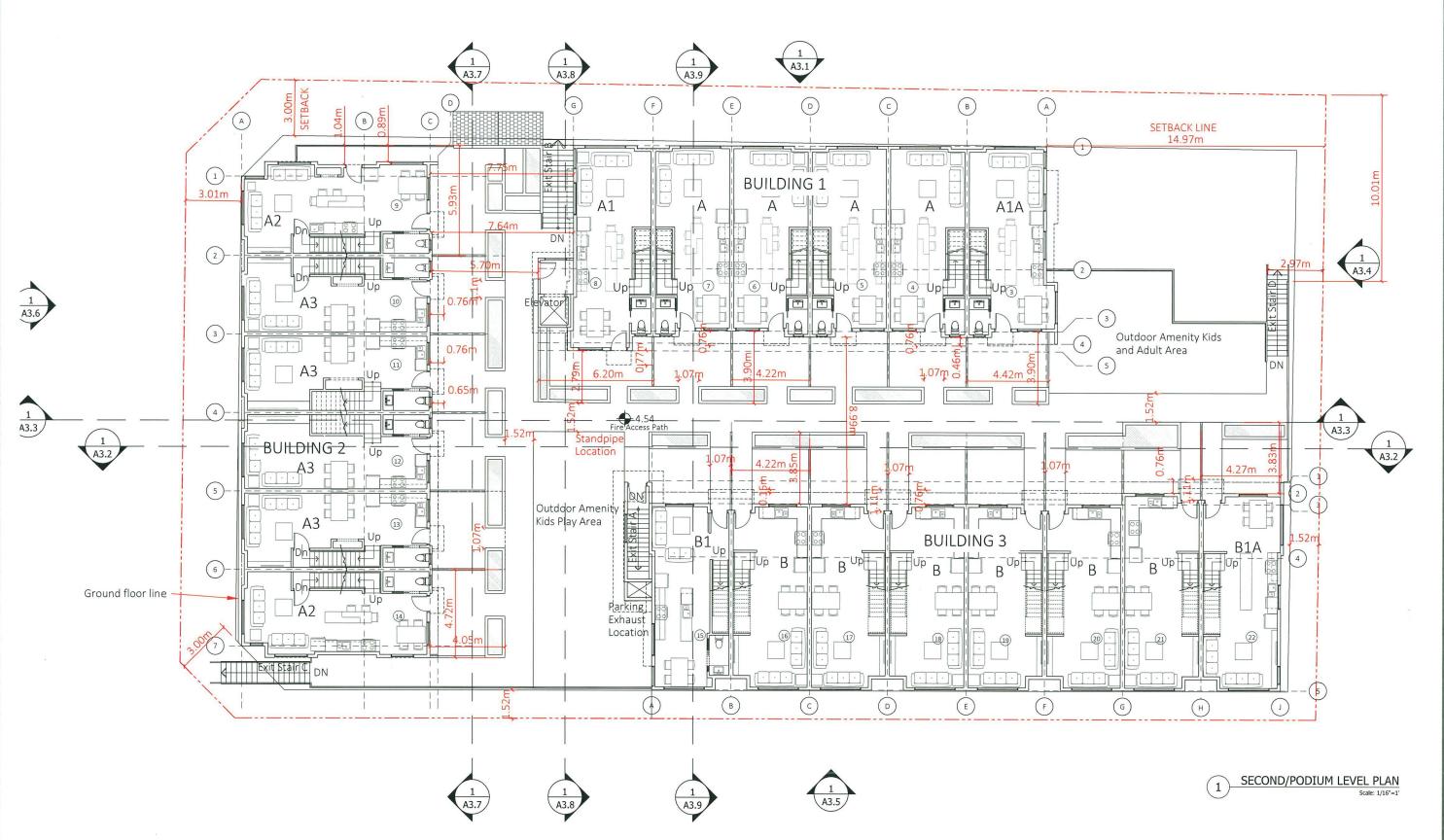




ARCHITECTURE ₹ Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca Ph: 604-503-4484 Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT: 31-Mar-23 ROJECT NO: 17-127 DRAWN BY: As Noted R.W

PARKADE LVL PLAN

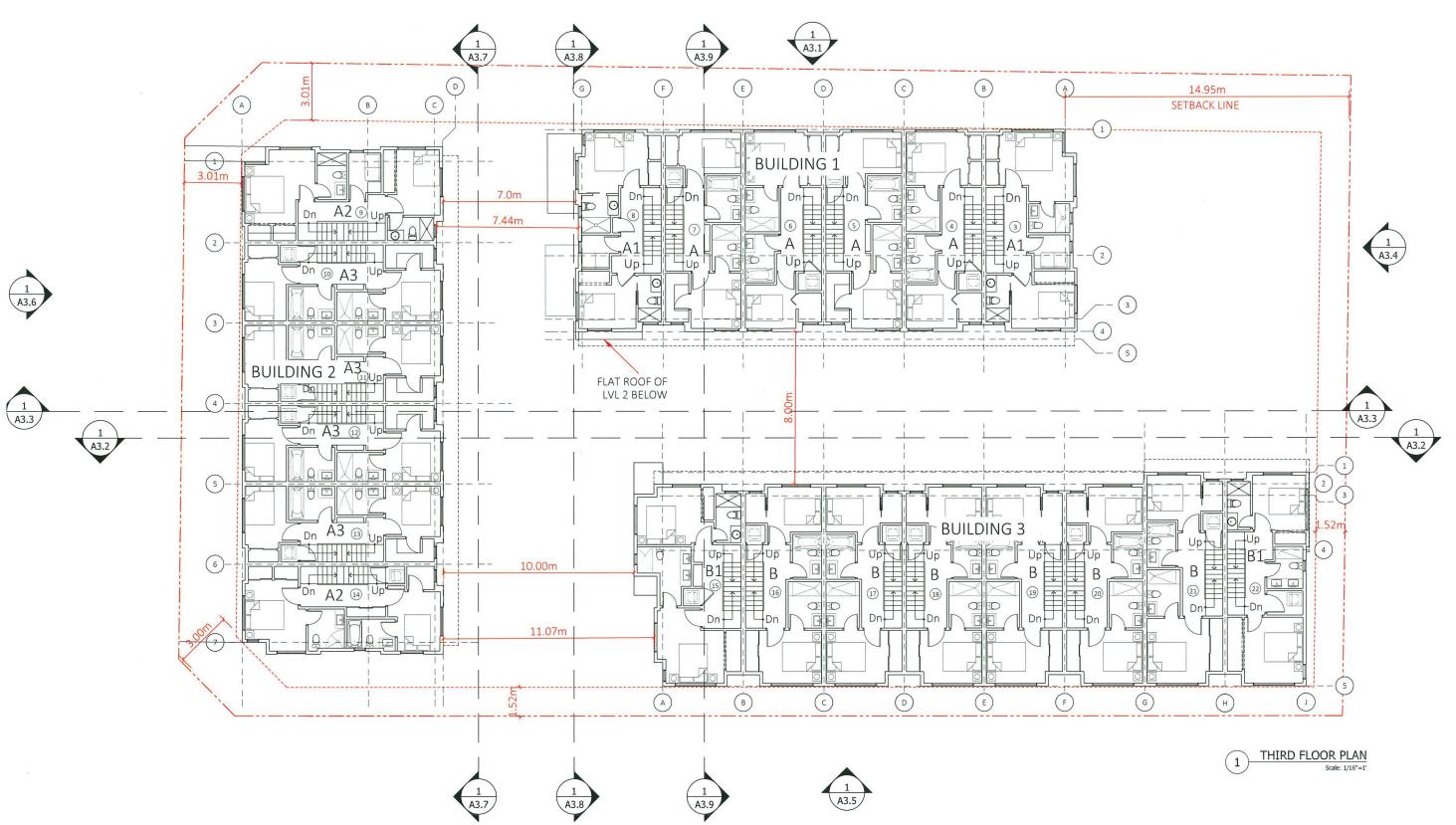






PODIUM LEVEL PLAN



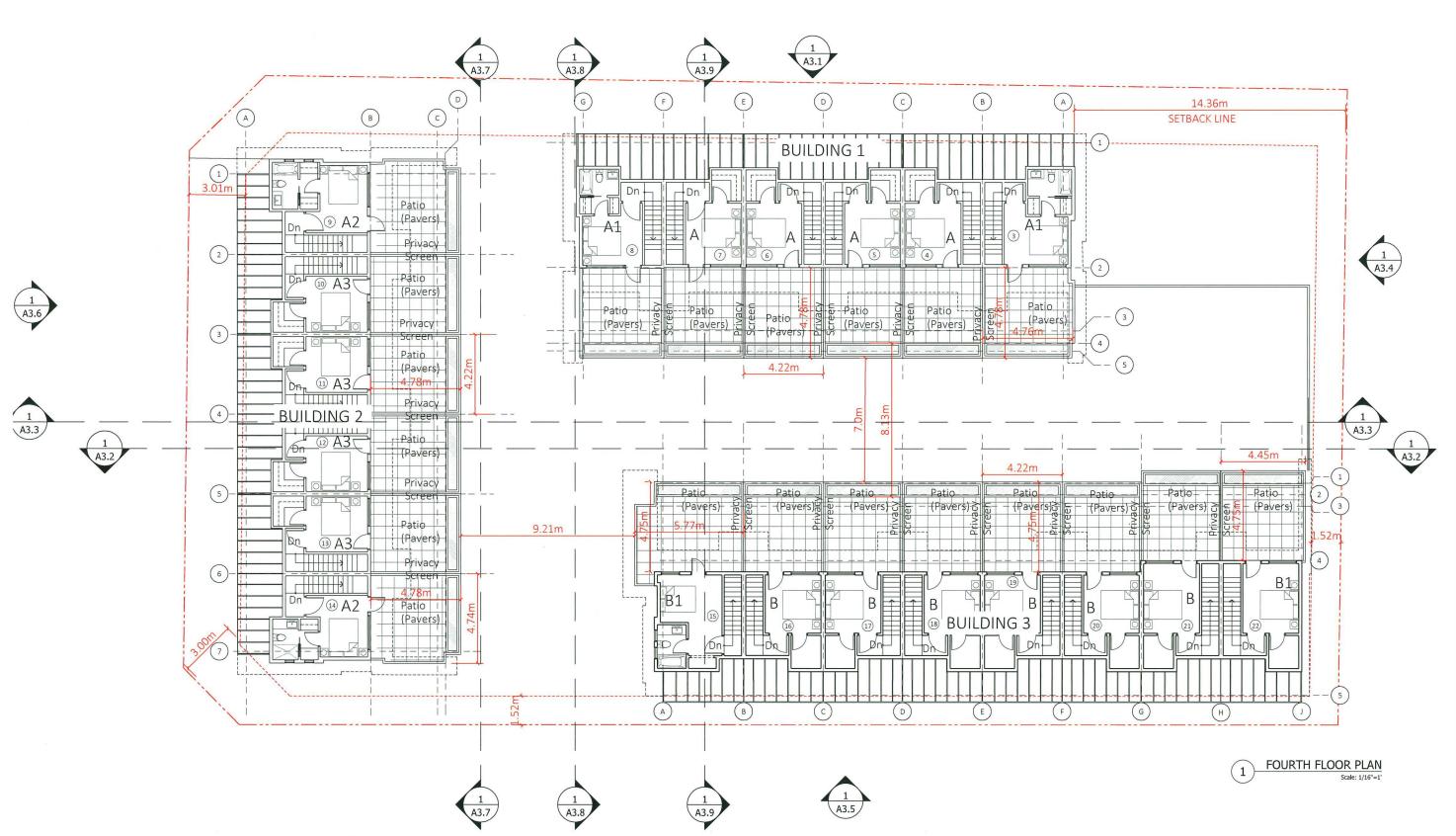


ARCHITECTURE ₹ Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca PROJECT INFO: 11 UNITS
Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC
CLIENT:
Juliana 31-Mar-23 PROJECT NO: 17-127 SCALE: DRAWN BY: As Noted R.W

A2.3

THIRD FLOOR PLAN





DP 21-932383 Plan #6 April 20, 2023



Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca

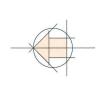
h: 604-503-448

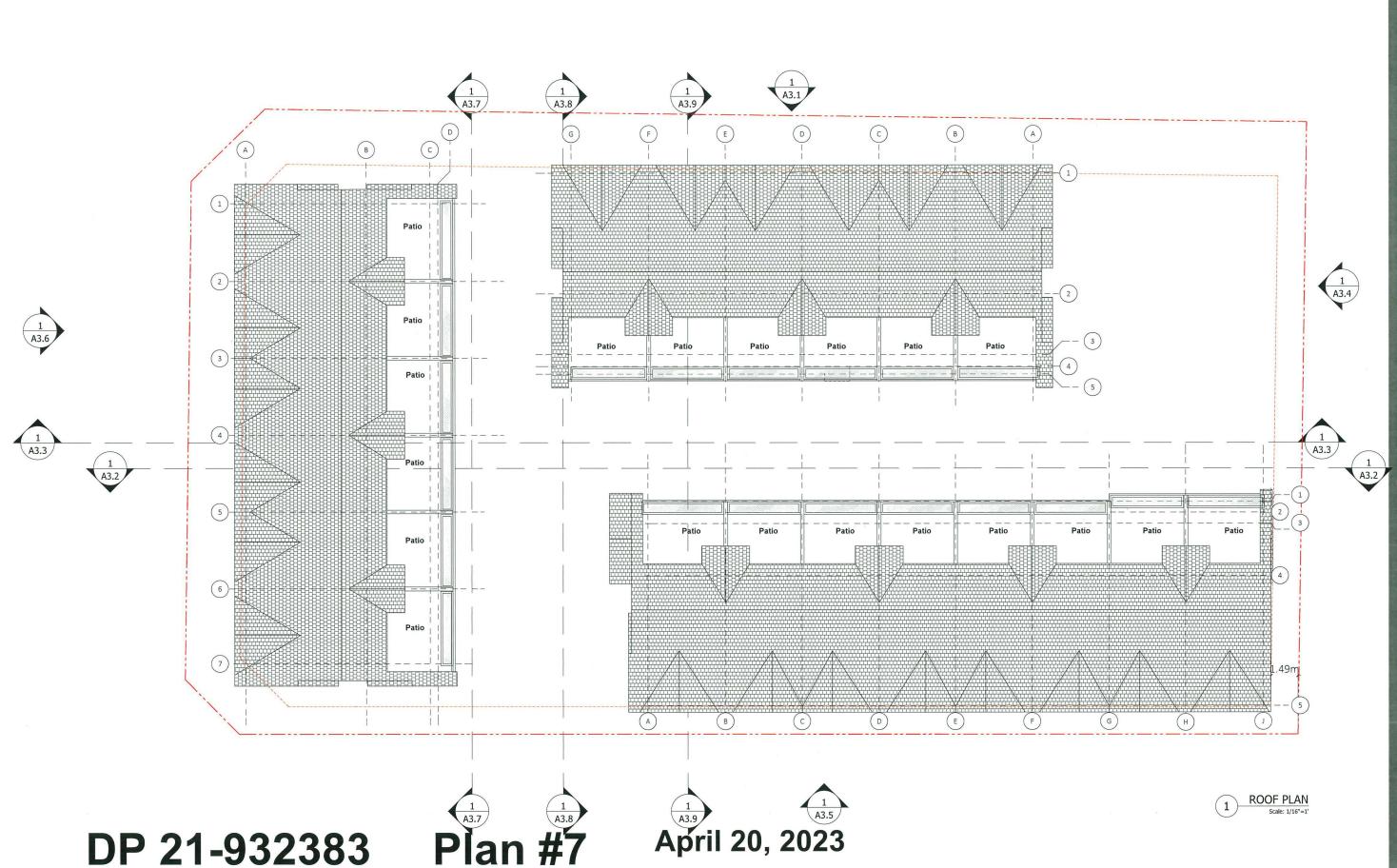
PROJECT INFO: 11 UNITS
Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC
CLIENT:
Juliana

SCALE: DRAWN BY:
As Noted R.W

1. Issued For DP R.W 02/08/22
REV DESCRIPTION BY DATE

FOURTH FLOOR PLAN





FLAT ARCHITECTURE S

Unit 209-6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca

Ph: 604-503-4484

Troughouse Development at 8951,
Townhouse Development at 8951,
8971 Spires Rd., 8991 Spires Gate,
Richmond, BC
CLIENT:
Juliana

DATE

23-Feb-23

PROJECT NO:

17-127
SCALE: DRAWN BY:
As Noted R.W



ROOF PLAN

SPIRES GATE ROAD



DATE
23-Feb-23
PROJECT NO:

17-127

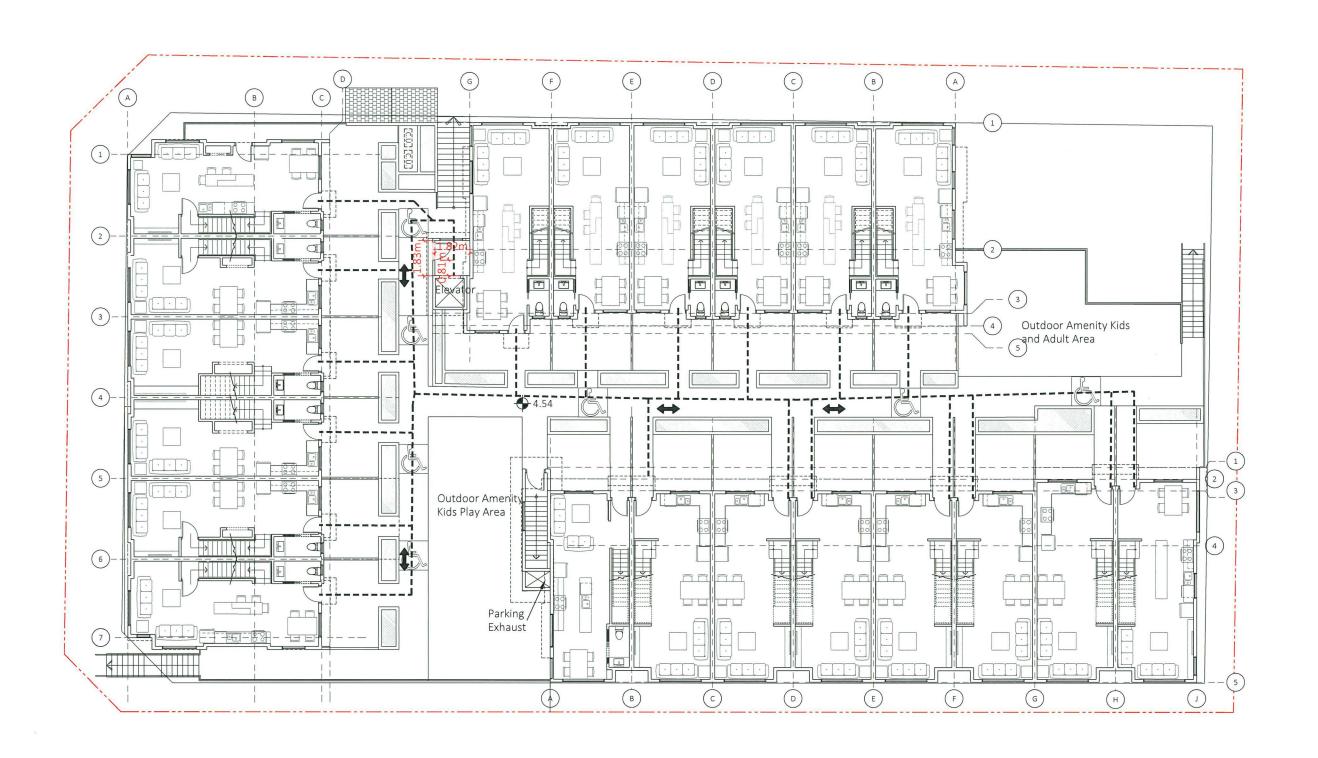
SCALE: DRAWN BY:
As Noted R.W

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ACCESSIBILITY PLAN LEVEL 1

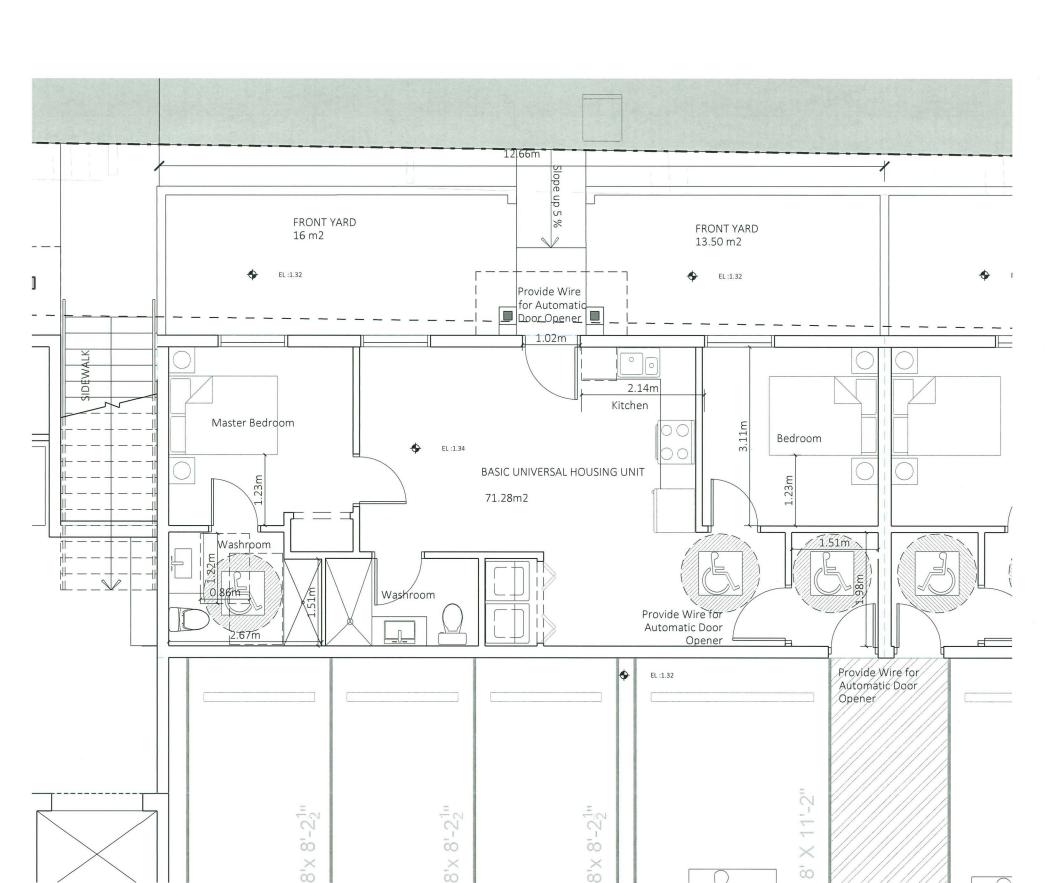




ACCESSIBILITY PLAN PODIUM LVL

PODIUM LEVEL PLAN





NOTE: THIS DESIGN **COMPLIES WITH THE BUH GUIDELINES OF** RICHMOND ZONING BY-LAWS.





- Floor finishes to be Slip Resistant
- DOORS AND DOORWAYS:
- All Exterior Doors to have flush threshold in **BUH** units
- All Doors to Accessible units to be min of 855mm
 - Maneuvering space to meet BUH guidelines e.g 1220 on push side wih 600mm clearance on door handle side

one window is being provided to meet min sill height of 750mm in bedroom

OUTLETS AND SWITCHES

- Outlets, Thermostats and switches to meet **BUH** guidelines
- BATHROOMS:
- one bathroom is being provided to meet the BUH guidelines in bedroom.

BUH- 2 Scale: 3/16"=1'



Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca

Ph: 604-503-4484

Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT: Juliana

23-Feb-23

PROJECT NO: 17-127

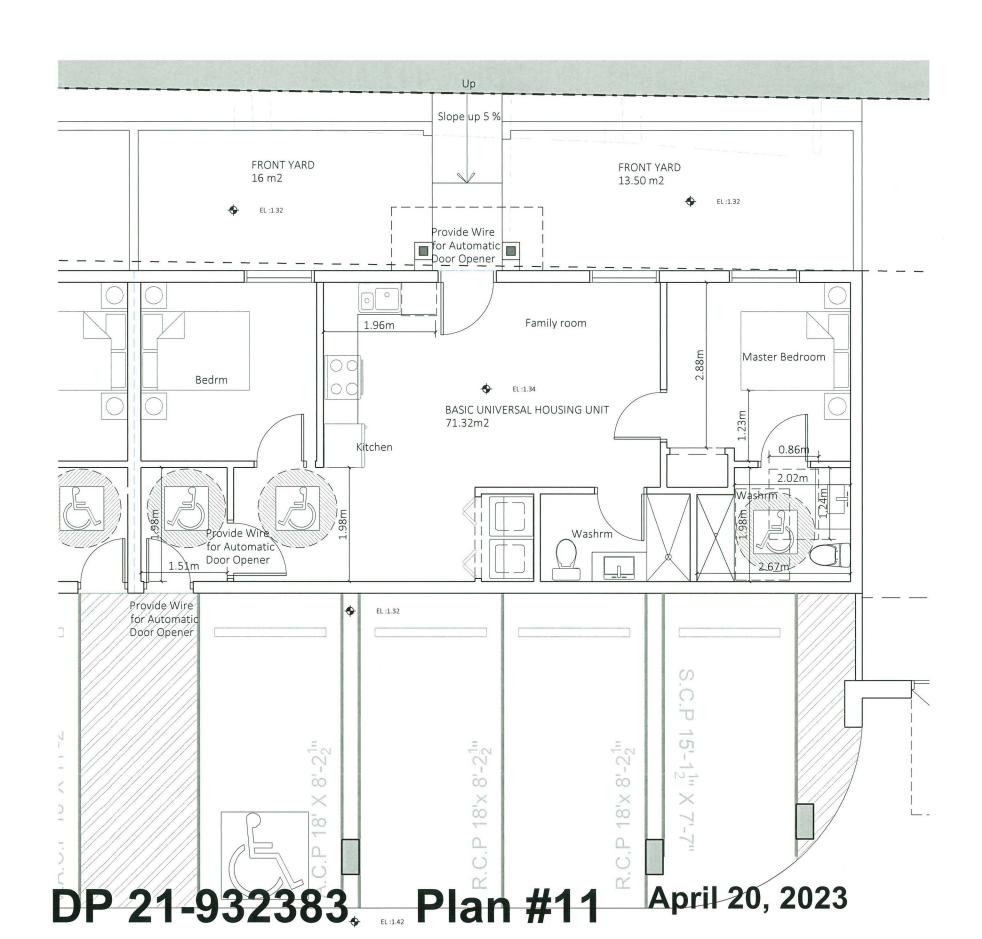
DRAWN BY: As Noted R.W

ACCESSIBLE UNIT

A2.12

April 20, 2023 Plan #10 DP 21-932383





NOTE: THIS DESIGN COMPLIES WITH THE BUH GUIDELINES OF RICHMOND ZONING BY-LAWS.





- Floor finishes to be Slip Resistant DOORS AND DOORWAYS:
- All Exterior Doors to have flush threshold in BUH units
- All Doors to Accessible units to be min of 855mm
- Maneuvering space to meet BUH guidelines e.g 1220 on push side wih 600mm clearance on door handle side

WINDOWS:

 one window is being provided to meet min sill height of 750mm in bedroom

OUTLETS AND SWITCHES

 Outlets, Thermostats and switches to meet BUH guidelines

BATHROOMS:

 one bathroom is being provided to meet the BUH guidelines in bedroom.

BUH-1

Scale: 3/16"=1'

FLAT ARCHITECTURE \$\frac{1}{2}\$

Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca

Ph: 604-503-4484

Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT:

DATE
23-Feb-23
PROJECT NO:

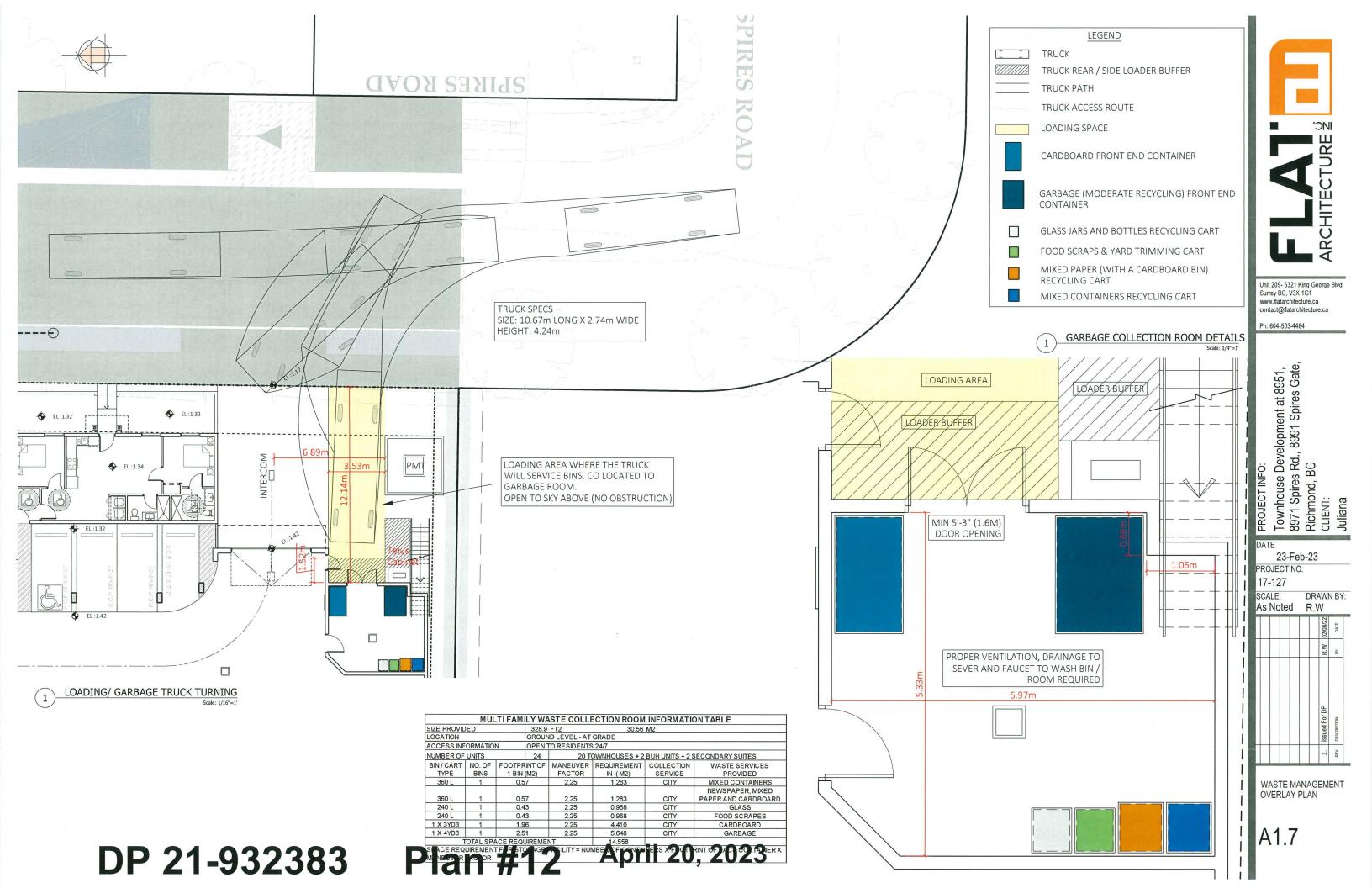
17-127

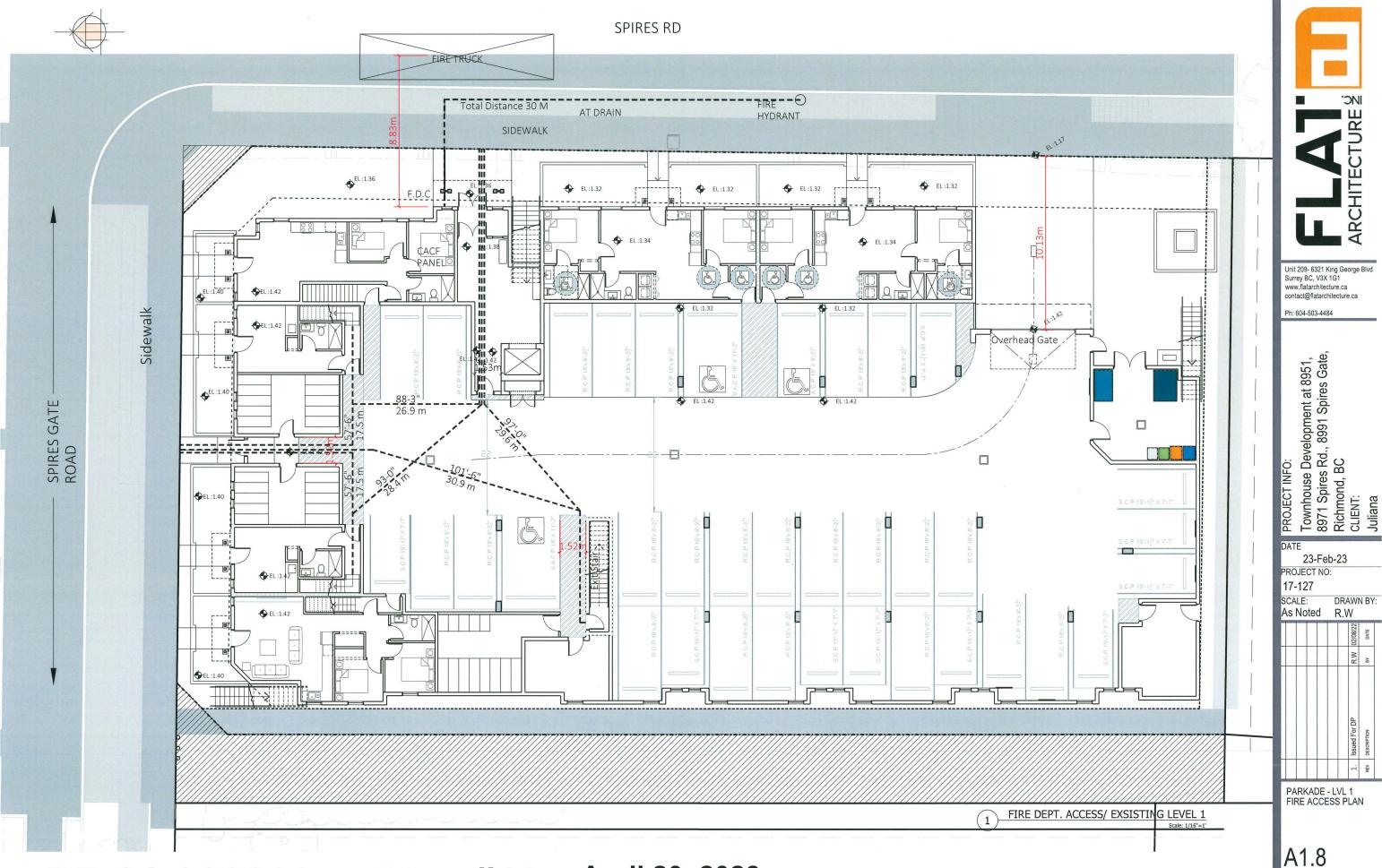
SCALE: DRAWN BY:
As Noted R.W Z0780/20 M.W BY:

BESCHALE: DRAWN BY:
As Noted R.W DATE: DRAWN BY:

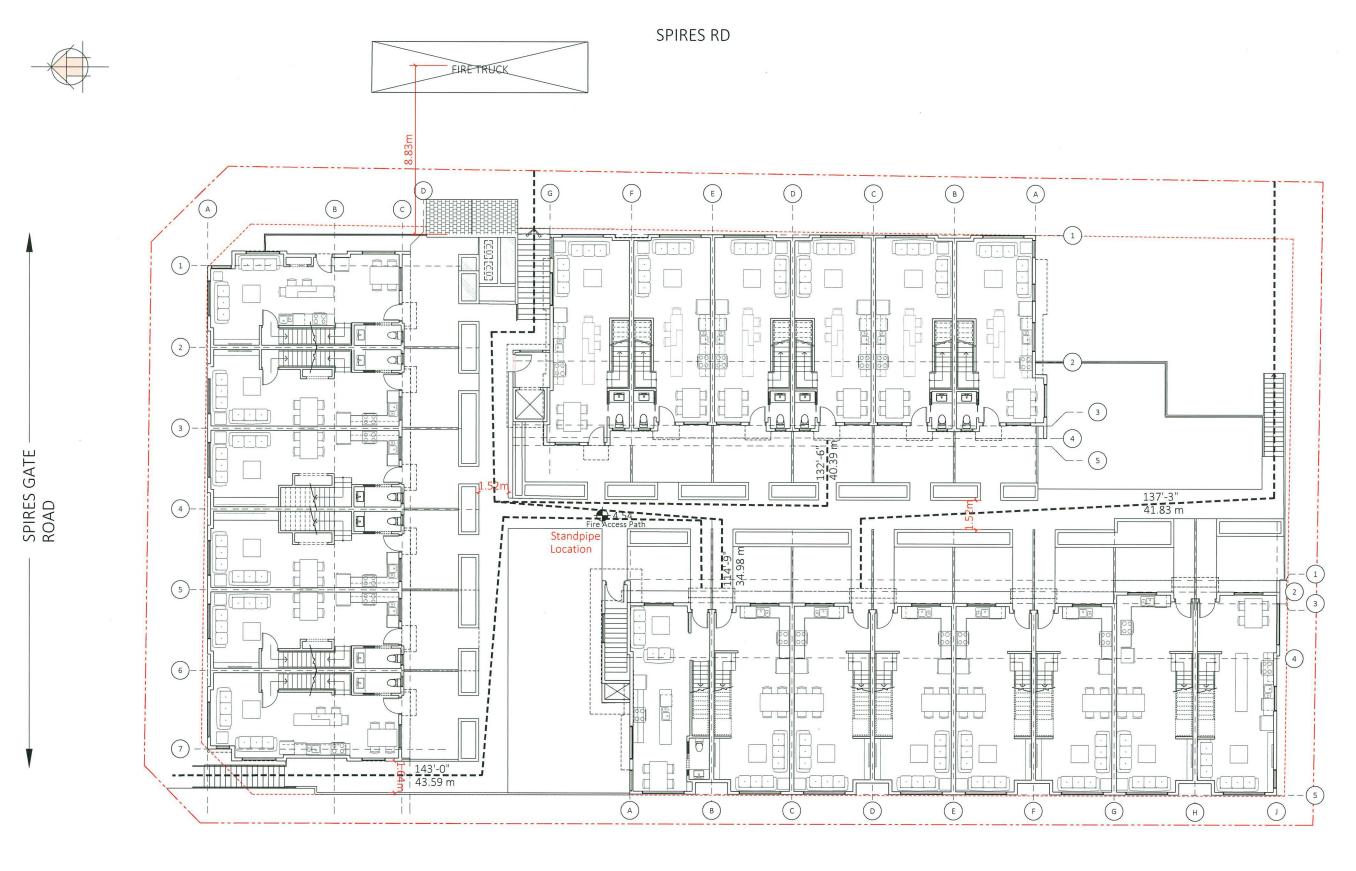
BESCHALE: DRAWN BY:
As Noted R.W

ACCESSIBLE UNIT PLAN





DP 21-932383 Plan #13 April 20, 2023



FIRE DEPT. ACCESS/ PODIUM - LEVEL 2



Ph: 604-503-4484

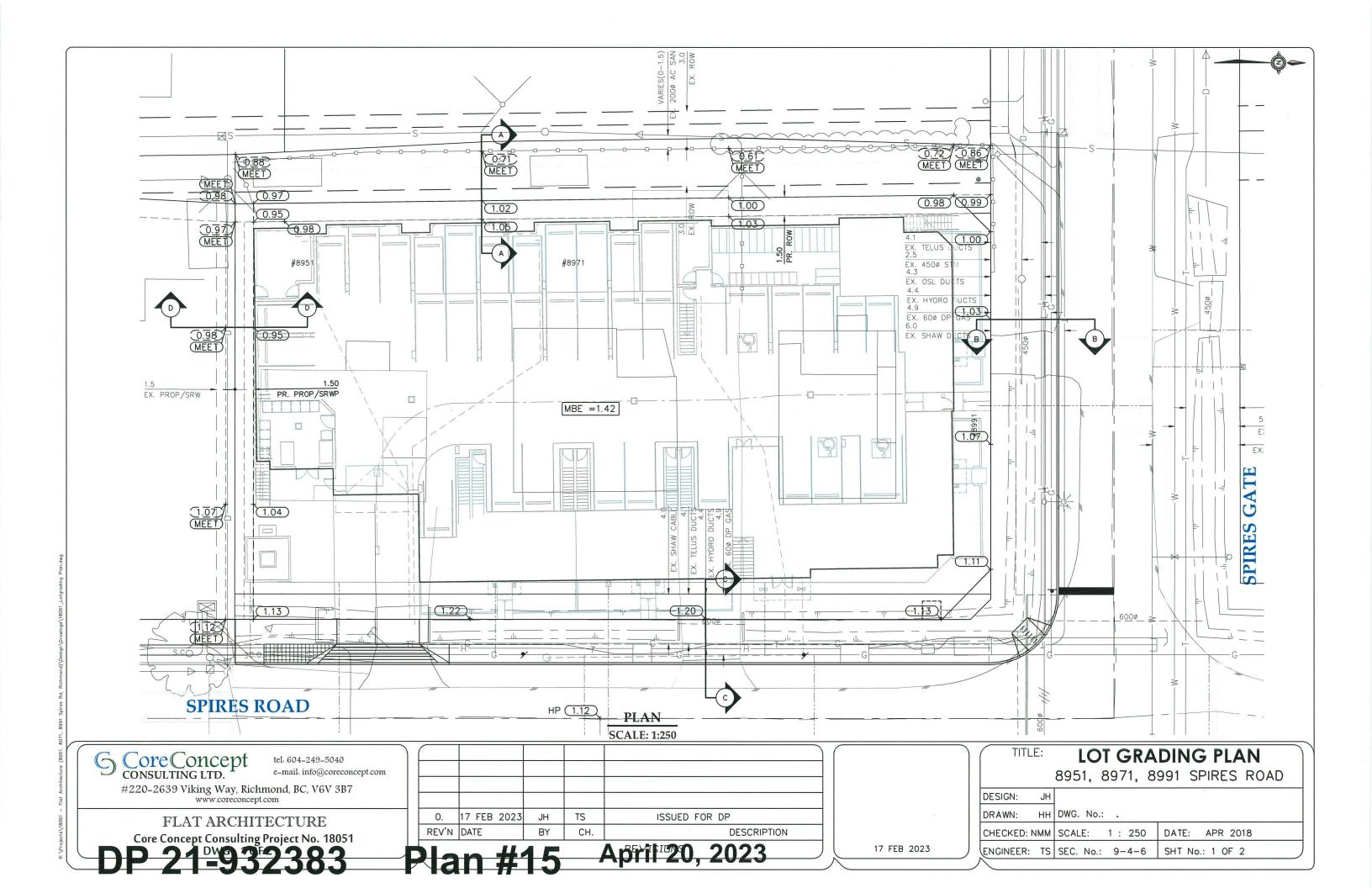
Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT:

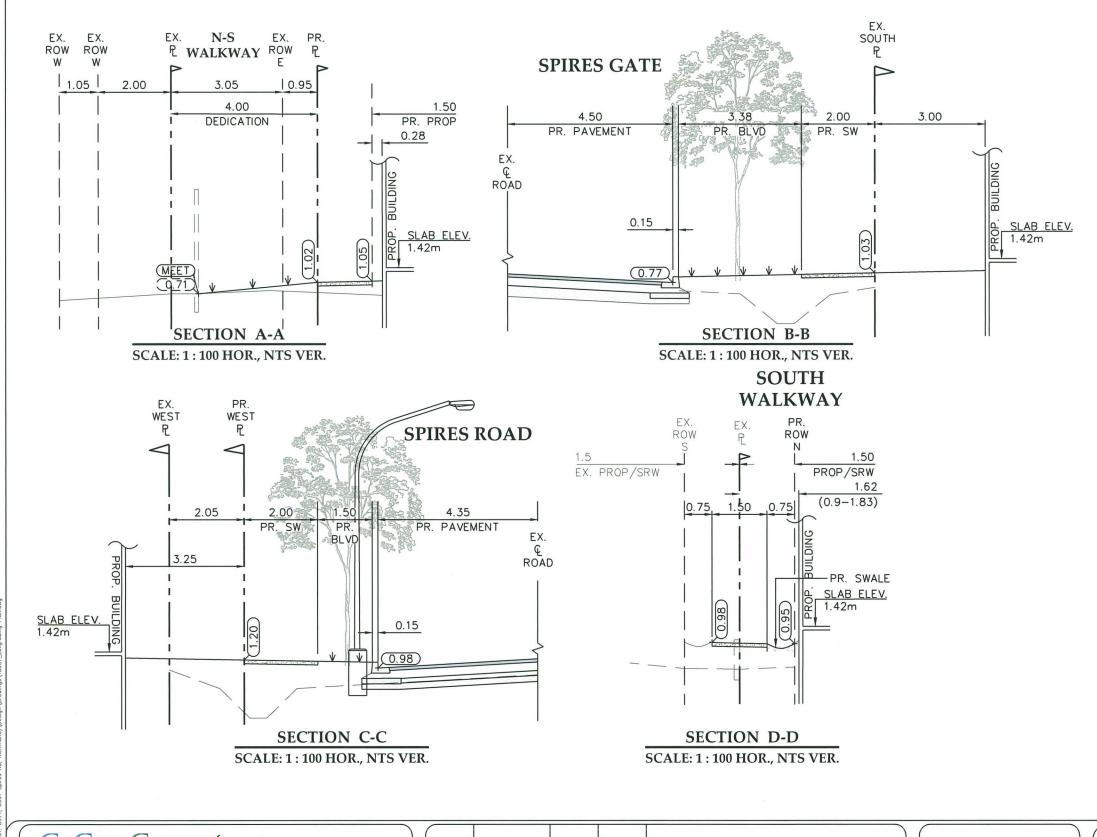
23-Feb-23 PROJECT NO:

17-127 DRAWN BY: As Noted R.W

PODIUM - LVL 2 FIRE ACCESS PLAN

A1.9





PROPOSED SITE GRADES: NW CORNER = 0.99m NE CORNER = 1.12mSW CORNER = 0.95m SE CORNER = 1.13m BUILDING 1 SLAB = 1.42m BUILDING 2 SLAB = 1,42m BUILDING 3 SLAB = 1.42m BUILDING 4 SLAB = 1.42m PARKADE SLAB AVERAGE = 1.42m PROPOSED AVERAGE SITE GRADE = 1.25m EXISTING SITE GRADES: NW CORNER = 0.56m NE CORNER = 0.52mSW CORNER = 0.48m SE CORNER = 0.34mEXISTING AVERAGE SITE GRADE = 0.48m MAX ROAD CENTERINE GRADE:

MAX = 1.12m

PROPOSED SITE FILL VOLUME:

SITE AREA = 1958m²

EXISTING AVERAGE SITE GRADE = 0.48m

PROPOSED AVERAGE SITE GRADE = 1.25m

FILL VOLUME = (1.25m-0.48m)*1985m² = 1528.5m³

S Core Concept CONSULTING LTD.

tel: 604-249-5040 e-mail: info@coreconcept.com

#220-2639 Viking Way, Richmond, BC, V6V 3B7 www.coreconcept.com

FLAT ARCHITECTURE

Core Concept Consulting Project No. 18051

O. 17 FEB 2023 JH TS ISSUED FOR DP
REV'N DATE BY CH. DESCRIPTION

21 an #46 April 120, 2023

LOT GRADING PLAN

8951, 8971, 8991 SPIRES ROAD

DESIGN: JH

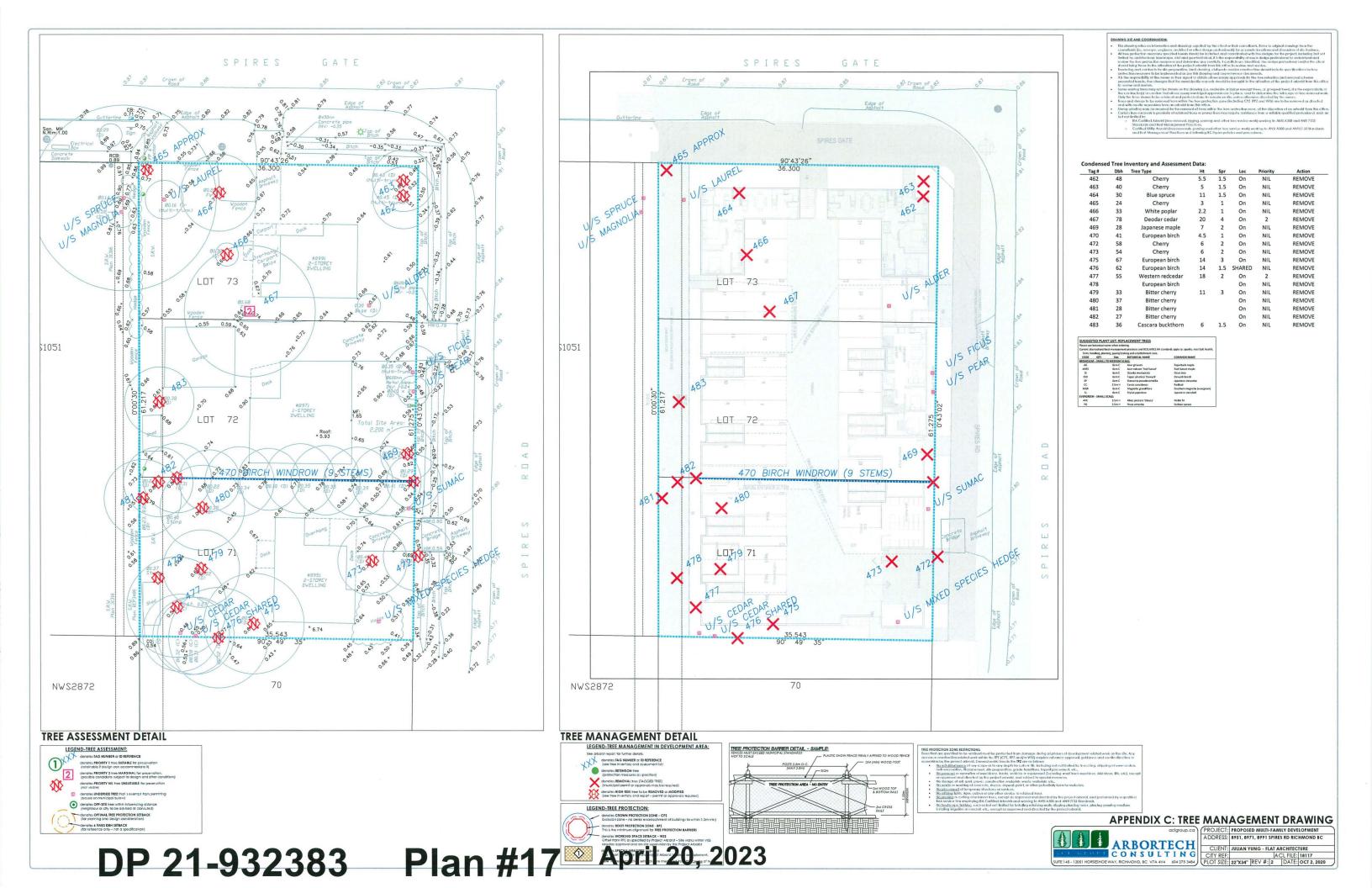
DRAWN: HH DWG. No.: .

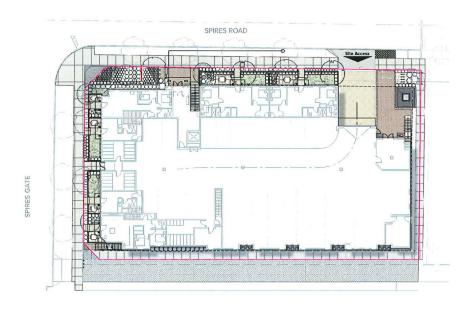
CHECKED: NMM SCALE: AS SHOWN DATE: APR 2018

ENGINEER: TS SEC. No.: 9-4-6 SHT No.: 2 OF 2

17 FEB 2023

R: \Projects\18051 - Flat Architecture (8951, 8971,





DESIGN RATIONALE AND SUMMARY

Key Plan-Street Level Scale: 1:300

Being an infill development among a mix of other townhouse complexes and rapidly evolving residential lots, the contextual treatment demands sensitivity and appropriate placement of elements.

We are proposing a relatively simple mix of surfaces and their configuration owing to a very small scale of such surfaces such as pathways to the units and the driveways. We have chosen to limit our selection to 2 or 3 chief finishes and reserved a more complex hierarchy of surfaces for the developed.

The planting on the boulevard edges has been very carefully configured with some matching trees of the surrounding boulevardscape and what might be contextually appropriate with scale and available right of way. Similarly, being cognizant of the space requirements for the deck level planting, we have chosen to limit the trees and place the built up planters to the perimeter where possible for structural reasons. The trees selected for the internal layout are small and relatively less in number.

This development is amidst a rapidly changing area where a number of developments have sprung up in the past few years. Our design concept advocates a sensitive scheme that merges with the general transformation of the area.

The multi-user nature of the residential development demands privacy for the various units and their accessible spaces. The element used to define these spaces (private patios from one another) are emerald cedar (thuja occidentalis smaragd) and Taxus. These columnar hedge plants are used in tandem with smaller hedging material such as the Spirarea and the flowering perennials to allow for multiple layers of textural relief.

The north east corner of the site, and the area by main lobby are treated with multiple layers of ornamental grasses and flowering perennials which are placed in a way that emphasizes the project signee and create a welcoming landscape for those entering the site and building. Some of the proposed plants are PENNISETUM HAMELN, BLUE OAT GRASS and Hemerocallis lilioasphodelus, in addition to a Taxus buffer in the background to provide privacy for adjacent unit.

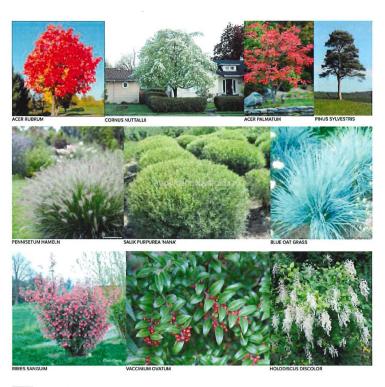
Vines and trellises are proposed along the west side of the building providing additional visually appealing green elements to the building to be enjoyed by pedestrians.

Outdoor Spaces

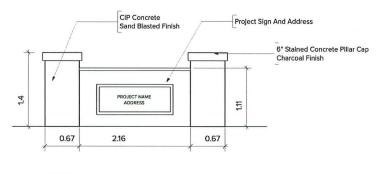
The outdoor amenity has been designed with a linear two zone concept. The main constituents are the Social recreational area and a playground. The social area has been augmented with an outdoor kitchen and sustainable elements like the garden plots. These are placed with raised planters c/w spout and work bench for the residents use at the deck level.

Further, we have proposed use of native plants requiring lower water intake and offering trees that encourage bird habitat such as the 'Bitter Cherry' towards the lane.

Plan #18



2 SOME PROPOSED PLANTS



PROJECT SIGNAGE DETAIL (F2)

Scale: NTS

GENERAL NOTES

All materials and workmanship to CLS Standards, latest edition. Soil depths and subgrade preparation, soil quality and plant sizes to meet or exceed that standard.

Plant sizes in this list are specified according to the BC Landscape Standard's latest edition. Container sizes are specified as per "CNTA Standards'. Both plant size and container size are the minimum acceptable sizes. The installers are advised to search and review, make plant material available to the Landscape Architect for optional review at the source of supply. Area of search to include Lower Mainland and Fraser Valley. 'Substitutions' must obtain written approval from the Landscape Architect prior to making any substitutions to specified material. Unapproved substitutions will be rejected. Allow a minimum of five working days prior to delivery for request to substitute. Substitutions are subject to the Landscape Standard.

All plant material must be provided from the certified 'Disease Free' nursery. All plant material must conform to the latest edition of the 'BC Landscape STandard'. Provide certification upon request. All landscaping and landscape materials to conform to the latest edition of the CLS standards.

Min. growing medium depths over prepared subgrade shall be:

Lawn areas 300mm
Ground Cover Areas 450mm
Shrub Areas 450mm

Tree Pits 300mm (around root balls)

Growing medium shall have physical and chemical properties as described in the standards for 'Ground'areas, except for the areas over structures where the medium shall conform to the requirements for level 1 applications. Processing and mixing of the growing medium shall be done off-site using a mechanized screening process. Proposed growing medium shall be tested by a recognized laboratory. The contractor shall guarantee that the soil submitted for testing is a sample representative of the soil to be used at the site.

On-Site or imported soils shall satisfy the requirements of the standards for growing medium. Soils shall be virtually free from subsoil, wood including woody plant parts, weed or reproducive parts of the weeds, plant pathogenic organisms, toxic material, stones over 30mm, and foreign objects.

All planting beds shall receive min. 50mm bark mulch.

The contractor shall maintain clean working conditions, remove all refuse and debris and present the site in a safe and clean condition upon completion of all works.

All the Planters are fixed not removable.

Plant species and varieties may not be substituted without the approval of the Landscape architect.

All plant material to be warranteed for one year from date of substantial completion.

All wood fences to be cedar, with one coat of clear penetrating preservative. All planted areas to be equipped with automatic irrigation system.

Automatic zoned irrigation system to be provided with following primary zones,

- Street level boulevard areas including the ROW's, setbacks not part of private yards, driveway access etc. These include chiefly inground
- Podium level public areas. This includes planting in planter beds and on slab.
- Individual yards on site level. Mainly inground planting.
- Individual yards on podium level. Mainly planter.
- All amenity areas on podium level. Mainly planter beds.

These have been carefully chosen to address the varying volume of growing medium to be catered for and will employ suitable heads and discharge.

Landscape Plans are prepared based on latest architecture drawings Revision no. 3 on 30 March 2022.

SEE L8 FOR SOIL VOLUME CALCULATION OF PODIUM LEVEL PLANTER.

SEE PAVING/SITE FURNISHING LEGENDS ON L4.

SEE L5 FOR PLANTER HEIGHT OF PODIUM LEVEL.

SEE L8 FOR SOIL VOLUME CALCULATION AND PLANTER HEIGHT OF ROOFTOP PLANTERS.

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DP 21-932383

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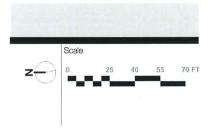
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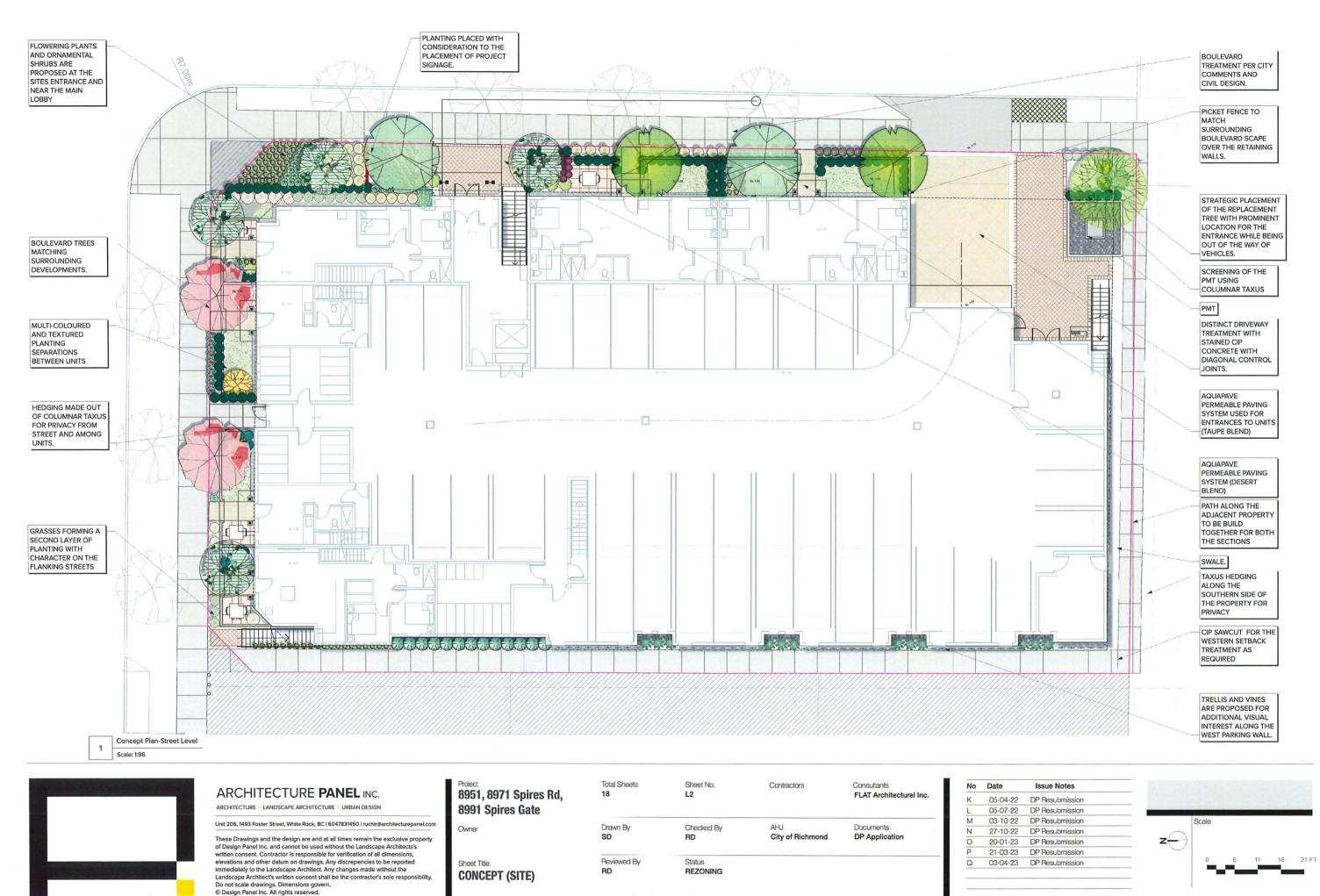
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Sheet Title
KEY PLAN

Total Sheets 18	Sheet No. L1	Contractors	Consultants FLAT Architecture
Drawn By	Checked By	AHJ	Documents
SD	RD	City of Richmond	DP Application
Reviewed By	Status		

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K	05-04-22	DP Resubmission
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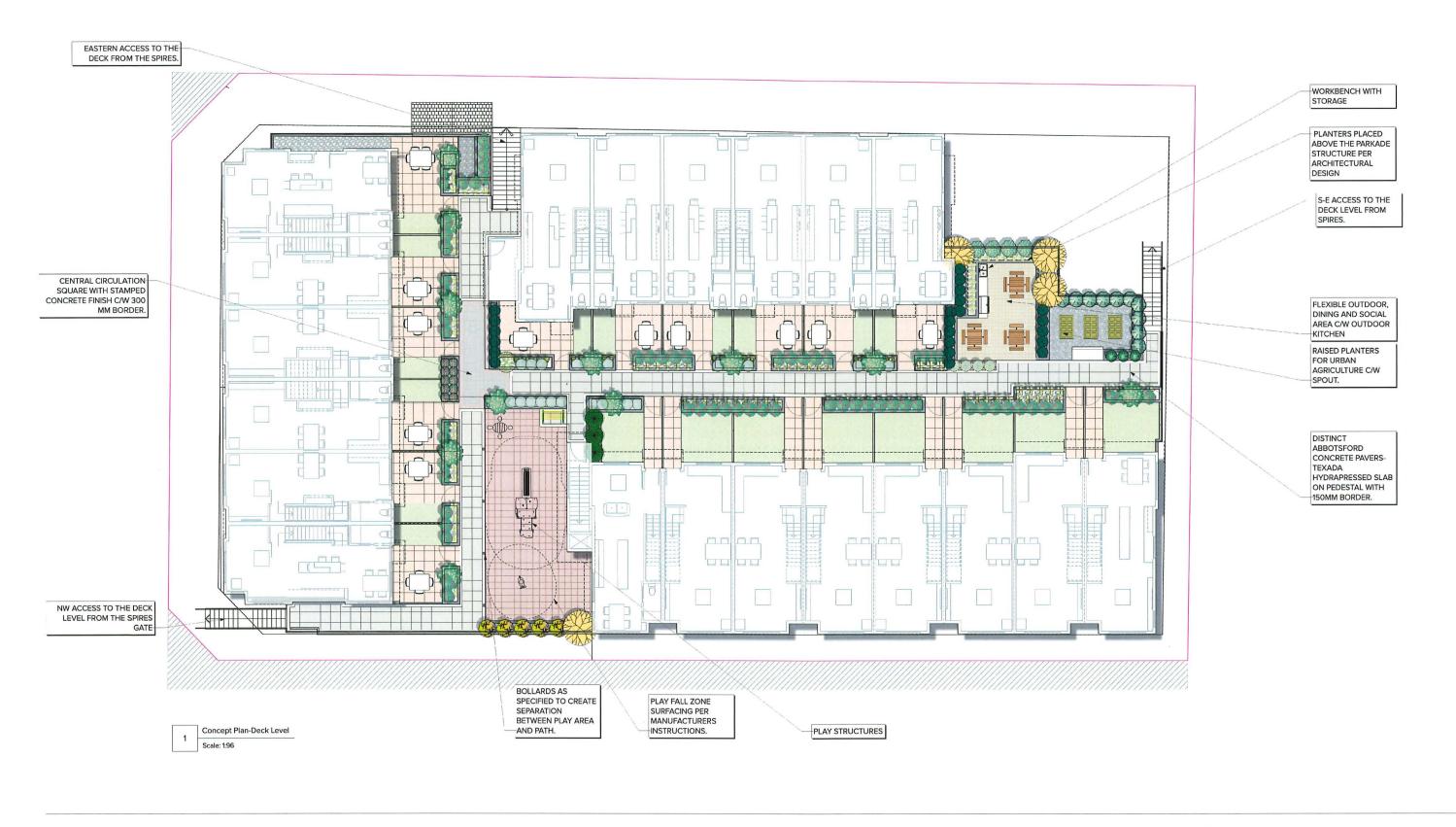




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Plan #19

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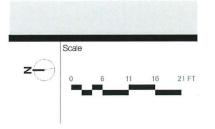
8951, 8971 Spires Rd,
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Owner	
Sheet Title	

CONCEPT(DECK LEVEL)

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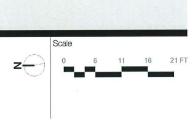
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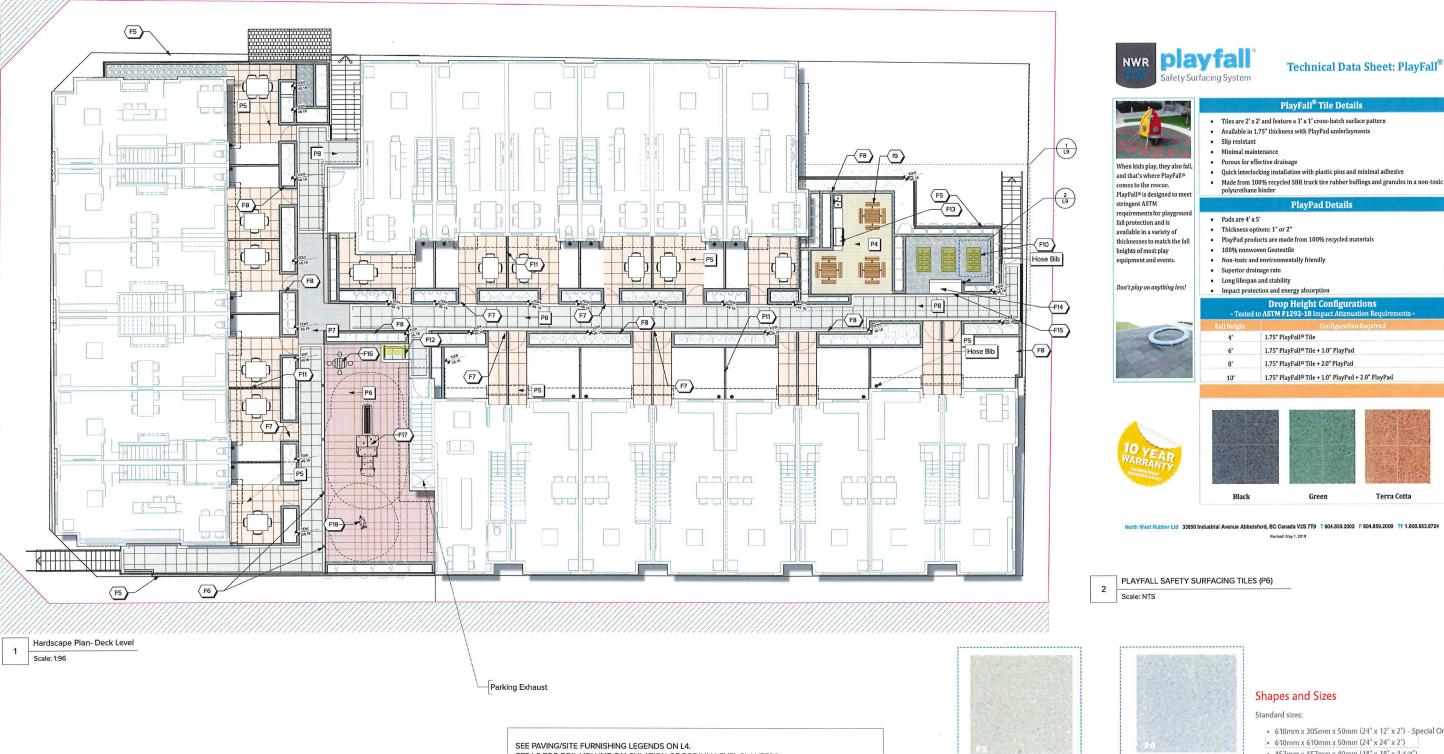
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Owner	
Sheet Title HARDSCAPE/SITE FURNISHINGS	

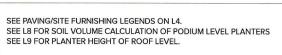
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April 20, 2023







Scale: NTS

Natural 18x18 Stock

Abbortsford Concrete Slab - Texada Hydrapressed slab on pedestal(P8 & P5)

Shapes and Sizes

Standard sizes:

610mm x 305mm x 50mm (24" x 12" x 2") - Special Order

Terra Cotta

Technical Data Sheet: PlayFall®

PlayFall® Tile Details

Drop Height Configurations

1.75" PlayFall® Tile + 1.0" PlayPad

1.75" PlayFall® Tile + 2.0" PlayPad

1.75" PlayFall® Tile + 1.0" PlayPad + 2.0" PlayPad

1.75" PlayFall® Tile

- 610mm x 610mm x 50mm (24" x 24" x 2")
- 457mm x 457mm x 40mm (18" x 18" x 1-5/8")

Colours for Texada Hydra Pressed Slab

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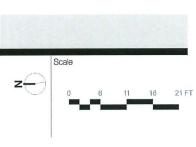
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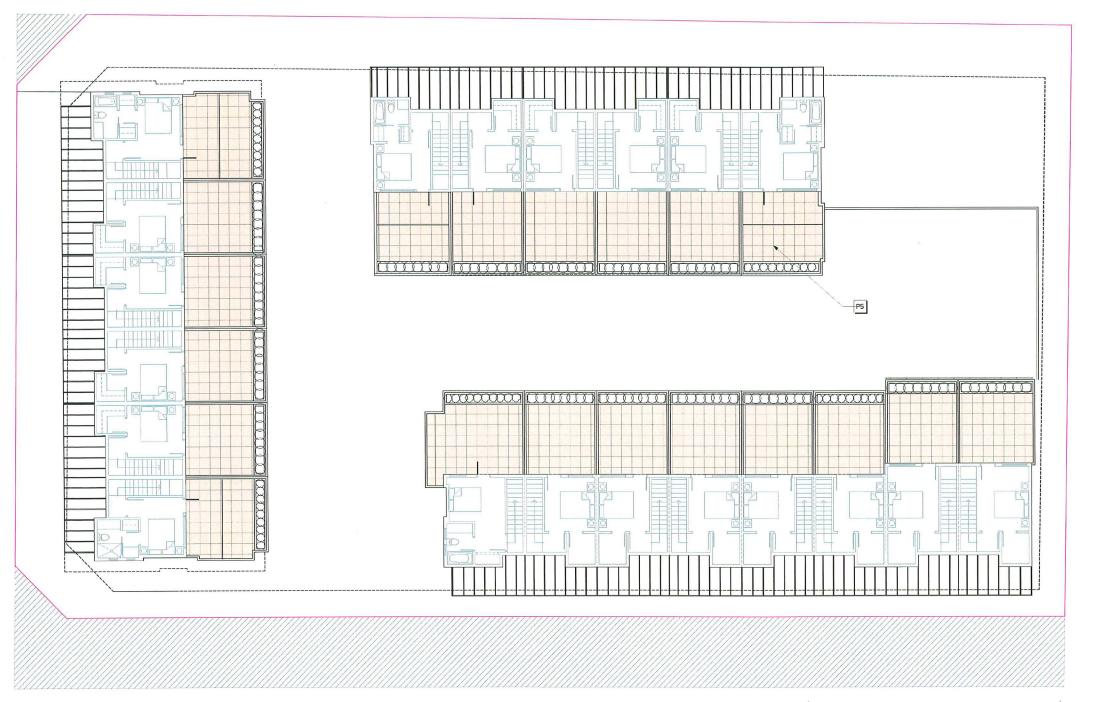
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Sheet Title HARDSCAPE DECK LEVEL	Reviewed By RD	Status REZONING		

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K	05-04-22	DP Resubmission	
L	05-07-22	DP Resubmission	
М	03-10-22	DP Resubmission	
N	27-10-22	DP Resubmission	
0	20-01-23	DP Resubmission	
P	21-03-23	DP Resubmission	
O	03-04-23	DP Resubmission	









Natural 18x18 Stock 24x24 Stock

Shapes and Sizes

Standard sizes:

- 610mm x 305mm x 50mm (24" x 12" x 2") Special Order
- 610mm x 610mm x 50mm (24" x 24" x 2")
- 457mm x 457mm x 40mm (18" x 18" x 1-5/8")

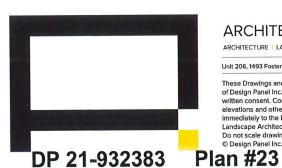
Colours for Texada Hydra Pressed Slab

Abbortsford Concrete Slab - Texada Hydrapressed slab on pedestal(P8 & P5).

Scale: NTS

Planting Plan-Roof Level
Scale: 1:96

A smart irrigation system will be provided to cover all common landscaping areas.



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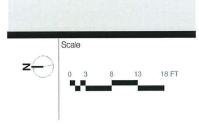
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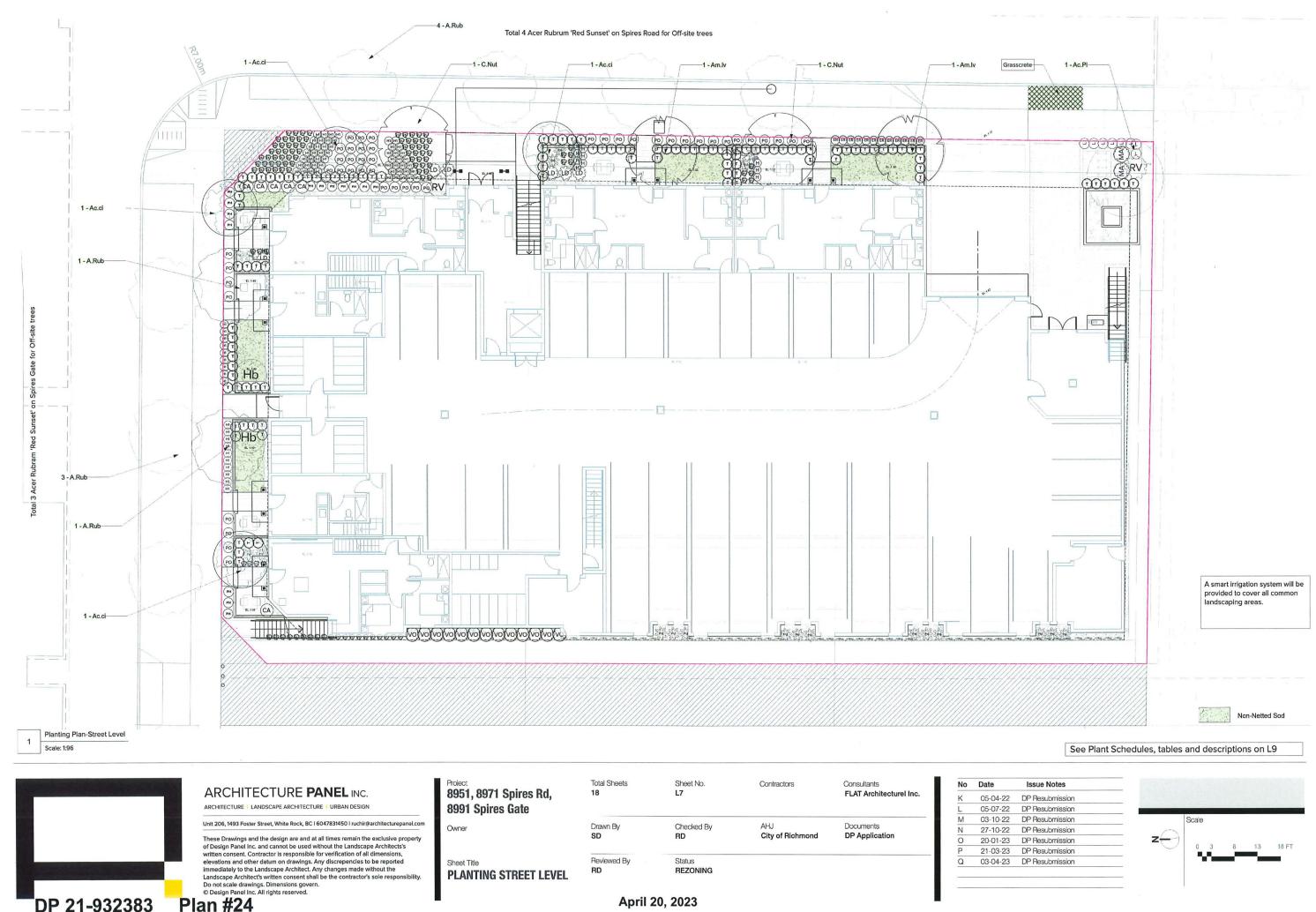
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Owner	Drawn By SD	Checked By RD	
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HARDSCAPE ROOF LEVEL

Total Sheets 18	Sheet No. L6	Contractors	Consultants FLAT Architecturel Inc.
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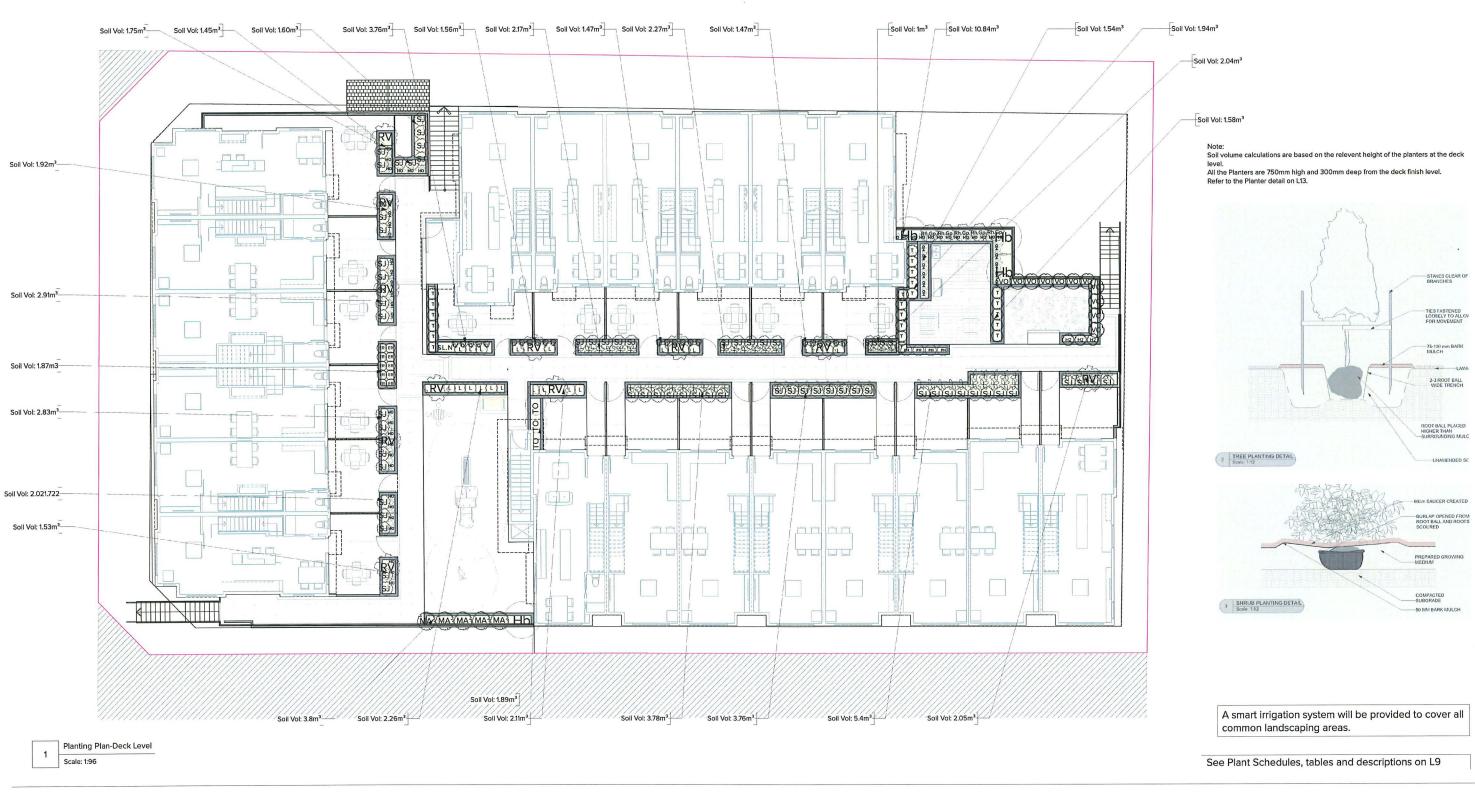
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Plan #24

April 20, 2023





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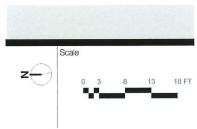
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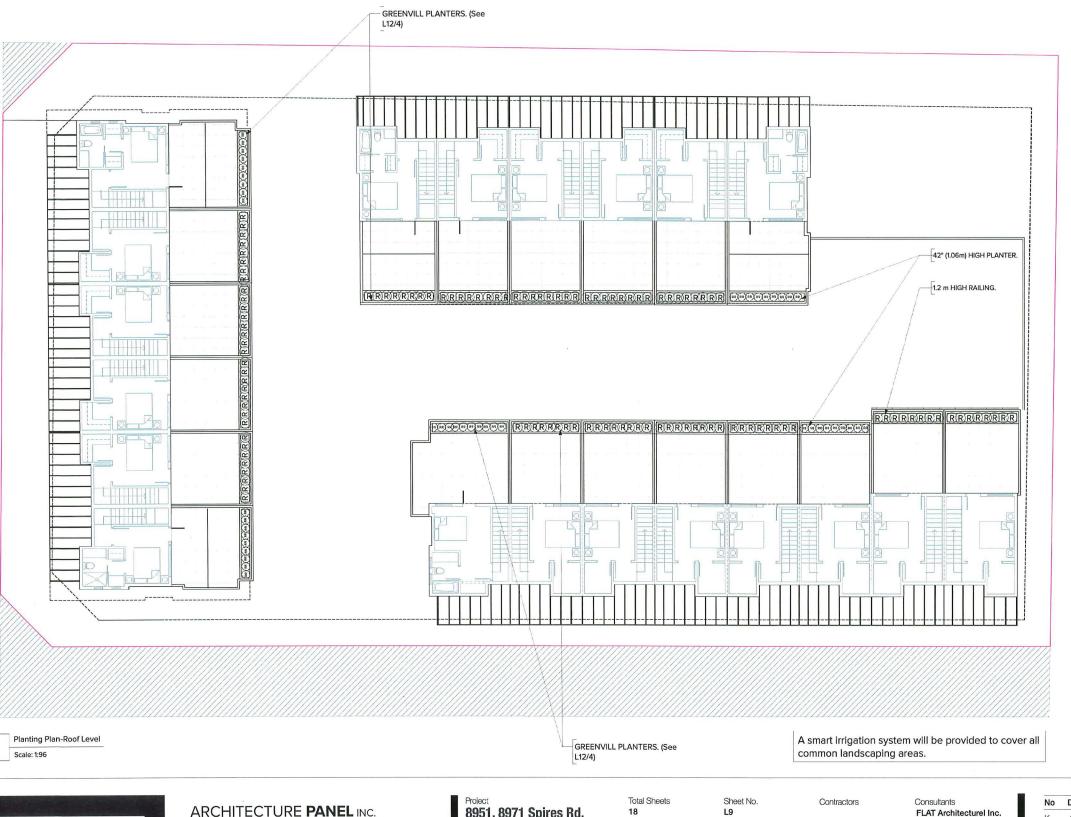
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PLANTING DECK LEVEL

Total Sheets 18	Sheet No. L8	Contractors	Consultants FLAT Architecturel Inc	
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Р	21-03-23	DP Resubmission	
Q	03-04-23	DP Resubmission	





List of Shrubs- Ground Level

Image	ID	Quantity	Latin Name	Common Name	Scheduled Siz
(A)	CA	6	Calamagrostis x acutiflora 'Karl Foerster'	Foerster's Feather Reed Grass	#2 pot
<u></u>	PA1	14	Pennisetum alopecuroides 'Hameln'	Hameln Dward Fountain Grass	#2 pot
PO	PO	45	Pennisetum orientale	Oriental Fountain Grass	#3 pot
(ER)	E.R	12	Echinacea 'Rosita'	Purple coneflower Rosita (dwarf)	#1 pot
(HT)	нѕ	70	Helictotrichon sempervirens	Blue Oat Grass	#1 pot
0	Tx	102	Taxus sp	Yew, hedge variety	1.5 m. ht.
6	L.Dn	5	Ligularia dentata 'Brit Marie Crawford'	Brit Marie Crawford Ligularia	#1 pot
稳	HL	102	Hemerocallis x 'Lemon Yellow' or vars	Lemon Yellow Daylily	#1 pot
\oplus	Hv	10	Heuchera vars	Coral bells	#1 pot
母	Po.m	16	Polystichum munitum	swordfern	#2 pot
€	RV	2	Rhododendron Vulcan	Red Rhododendron	#7 pot
(A)	M.Aqf	2	Mahonia aquafolium	Oregon grapw	#3 pot
L	lav	8	Lavendula vars	Lavender	#1 pot
Но	НЬ	2	Hibiscus syriacus 'Lucy'	Lucy Rose Of Sharon	1.5 m. ht
→ Ak.q	Ak.q	48	Akebia quinata	Chocolate vine	#3 pot staked
(vo)	vo.th	13	Vaccinium ovatum 'Thunderbird'	evergreen huckleberry	#3 pot
验	РМ	4	Polystichum munitum	swordfern	#3 pot
©	LD	1	Ligularia dentata 'Brit Marie Crawford'	Brit Marie Crawford Ligularia	#1 pot

List of Trees- Ground Level

Image	ID	Quantity	Latin Name	Common Name	Scheduled Size
<u> </u>	A.Rub	2	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	8cm. cal.
\bigcirc	C.Nut	2	Corunus nuttallii 'National'	National Dogwood	4.0 m. ht. clump
0	Ac.PI	1	Acer palmatum	Japanese Maple	8cm. cal.
$\overline{\mathcal{O}}$	Am.lv	2	Amelanchier laevis	Allegheny Serviceberry	8cm. cal.
(0)	Ac.ci	4	Acer circinatum	Vine maple	4m ht.

List of Shrubs- Podium Level

Image	ID	Quantity	Latin Name	Common Name	Scheduled Size
(ST N)	SL.N	1	Salix purpurea 'Nana'	Dwarf Arctic Blue Leaf Willow	#3 pot
26	НА	51	Hosta x 'Blue Angel'	Blue Angel Plantain Lily	#1 pot
0	Tx	22	Taxus sp	Yew, hedge variety	1.5 m. ht.
(ER)	E.R	10	Echinacea 'Rosita'	Purple coneflower Rosita (dwarf)	#1 pot
Ŷ	HL	23	Hemerocallis x 'Lemon Yellow' or vars	Lemon Yellow Daylily	#1 pot
(5)	SJ	66	Skimmia japonica	Japanese Skimmia	#2 pot
R	HP	55	Hosta x 'Patriot'	Patriot Plantain Lily	#3 pot
L	L	11	Lavendula vars	Lavender	#1 pot
Θ	Rh.Gp	5	Rhododendron 'Gumpo Pink'	Pink Gumpo Azalea	#7 pot
⊚	vo	11	Vaccinium ovatum 'Thunderbird'	evergreen huckleberry	#3 pot
10	то	3	Thuja occidentalis 'Smaragd'	Emerald Cedar	1.5 m. ht.
\odot	PA1	4	Pennisetum alopecuroides 'Hameln'	Hameln Dward Fountain Grass	#2 pot
0	RV	11	Rhododendron Vulcan	Red Rhododendron	#7 pot
(4)	МА	5	Mahonia aquafolium	Oregon grapw	#3 pot
(44)	НЬ	4	Hibiscus syriacus 'Lucy'	Lucy Rose Of Sharon	1.5 m. ht
⊙	H2	3	Bergenia cordifolia	Heartleaf Bergenia	#1 pot

List of Shrubs- Roof Level

Image	ID	Quantity	Latin Name	Common Name	Scheduled Size
(RR)	RR	46	Rosa rugosa 'Champlain'	Champlain Hardy Shrub Rose	#2 pot
R	R	120	Rosa Nutkana	Nootka Rose	#2 pot

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PLANTING ROOF LEVEL

L9 FLAT Architecturel Inc. Drawn By Checked By AHJ Documents City of Richmond **DP Application** SD RD Reviewed By Status

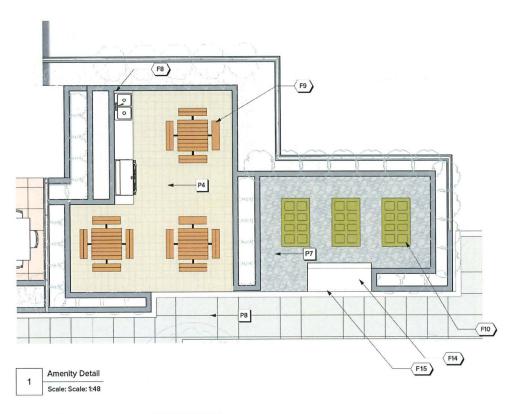
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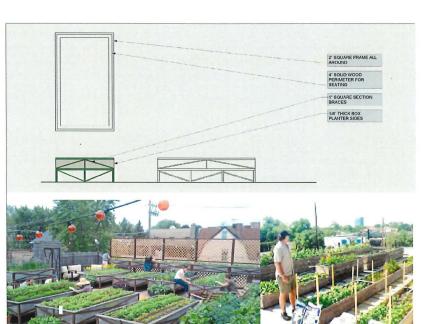
April 20, 2023

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Plan #26





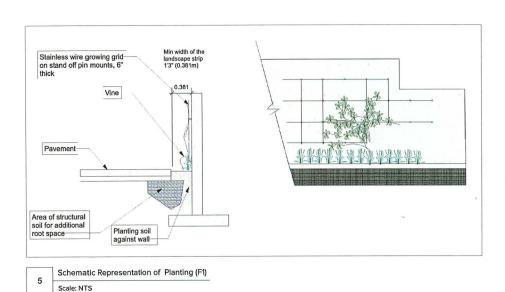




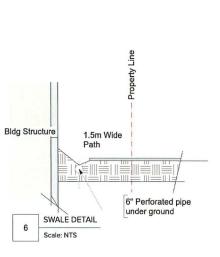
3 Abbotsford AquaPave Taupe Blend (P3)
Scale: NTS

4 Abbotsford AquaPave Desert Sand Blend (P4)
Scale: NTS





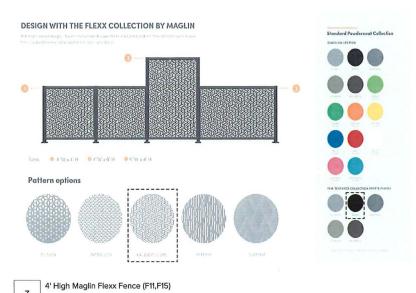
Plan #27



Raised Vegetable Planter Detail (F10)

2

Scale: NTS





8 PROPOSED SQUARE BOLLARDS (F6)
Scale: NTS

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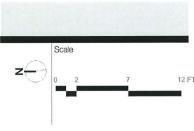
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AMENITY/DETAILS-T

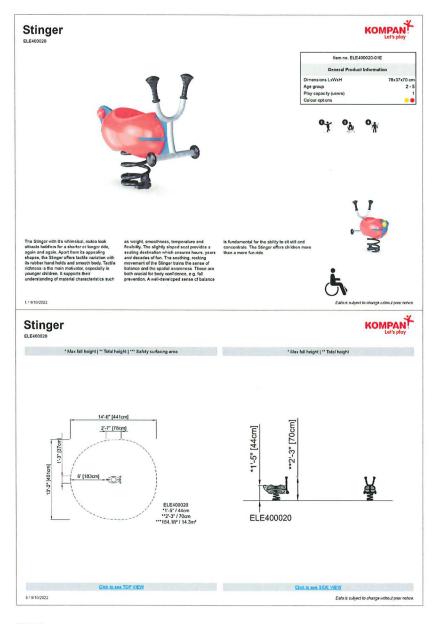
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Scale: NTS







KIDS TABLE WITH SITTING (F16) Scale: NTS

KOMPAN PLAY TOWER WITH ADA STAIRS (F17) Scale: NTS

Plan #28

KOMPAN STINGER (F18) Scale: NTS



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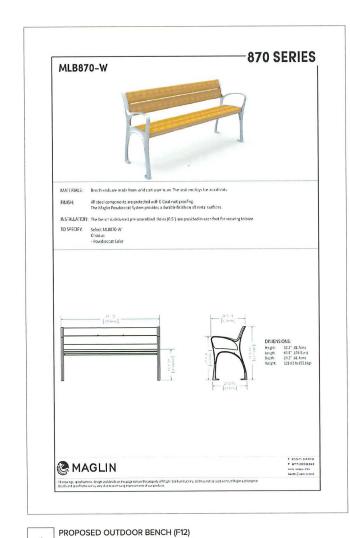
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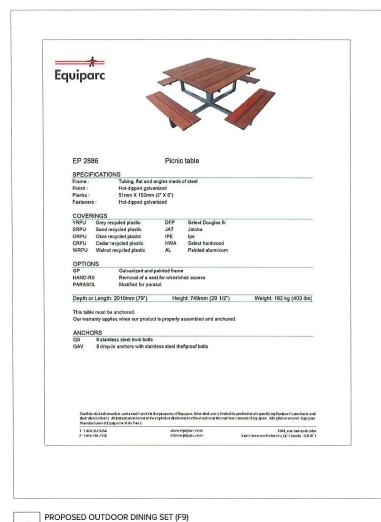
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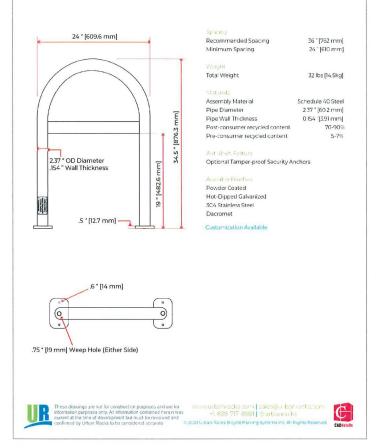
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Q	03-04-23	DP Resubmission







URBAN RACKS

Perth

69950.36 L 36" | W 16" | I H 42" L 914mm | I W 406mm | I H 1067mm 69050.48 L 48" | W 16" | I H 42" L 1219mm | I W 406mm | I H 1067mm





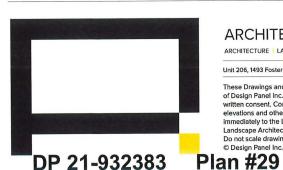
PROPOSED ROOF PLANTERS

3 PROPOSED BIKE RACK (F4)
Scale: NTS

Urban Staple

4 Scale: NTS

SEE PAVING/SITE FURNISHING LEGENDS ON L4.



Scale: NTS

ARCHITECTURE PANEL INC.

ARCHITECTURE | LANDSCAPE ARCHITECTURE | URBAN DESIGN

Unit 206, 1493 Foster Street, White Rock, BC | 6047831450 | ruchir@architecturepanel.com

Scale: NTS

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Prolect
8951, 8971 Spires Rd,
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Owner

Drawn By SD

Sheet Title

DETAILS-3

Total Sheets
Sheet No.
L12
Contractors
Consultants
FLAT Architecturel Inc.

Drawn By
SD
RD
City of Richmond
DP Application

Reviewed By
RD
REZONING

 No
 Date
 Issue Notes

 K
 05-04-22
 DP Resubmission

 L
 05-07-22
 DP Resubmission

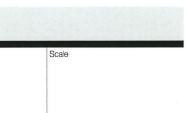
 M
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 DP Resubmission

 N
 27-10-22
 DP Resubmission

 O
 20-01-23
 DP Resubmission

 P
 21-03-23
 DP Resubmission

 Q
 03-04-23
 DP Resubmission



April 20, 2023

WORKBENCH WITH STORAGE Global industrial

This sturdy workbench features an independently locking drawer and cabinet that secures supplies and tools. This all-welded drawer pedestals have full-width aluminum drawer handles and nylon drawer rollers for smooth opening. Secure supplies and tools with this sturdy workbench with independently locking drawer and cabinet. The drawers measure 13"W x 17-3/4"D and have weight capacity of 66 lbs per drawer. It includes four 5-1/2"H drawers and two 12"H drawers. The cabinet has a locking door and an adjustable shelf. The pedestals measure 15-3/4"W x 20"D x 32"H and can be arranged to suit your needs. It has a durable gray powder-coated finish. The workbench includes 1-3/4" thick maple butcher block top. It is easy to assemble.

@ ASSEMBLY

Product Details

Fixed Yes
Yes
Square
Security Workbench
Maple Butcher Block
Global Industrial
Pedestal Leg
6 Drawers, 2 Cabinet
239159
Gray

Weights & Dimensions

Depth	30 IN (76.2 cm)
Width	72 IN (182.88 cm)
Height	32 IN (81.28 cm)
Weight Capacity	4000 LBS (1818.18 kg)
Weight	305 LBS (138.64 kg)

Workbench with Storage (F14)

1 Scale: NTS



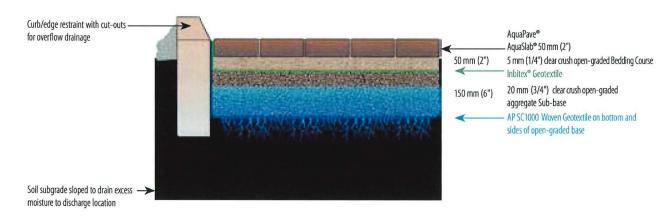
Plan #30

Equiparc picnic table (F9)

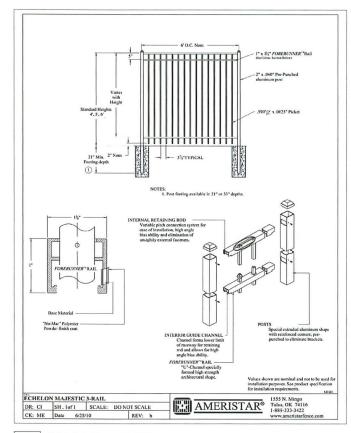
DP 21-932383

Scale: NTS

Typical Residential Driveway/Sidewalk Construction

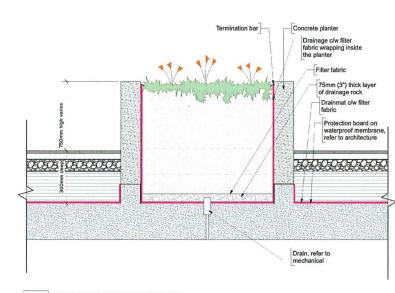


2 AquaPave Typical System Detail
Scale: NTS



4' High Metal Fence detail (F5)

Scale: Actual Size



CIP PLANTER DETAIL ON SLAB (F8)

Scale: 1:128

SEE PAVING/SITE FURNISHING LEGENDS ON L4.

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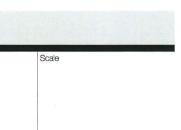
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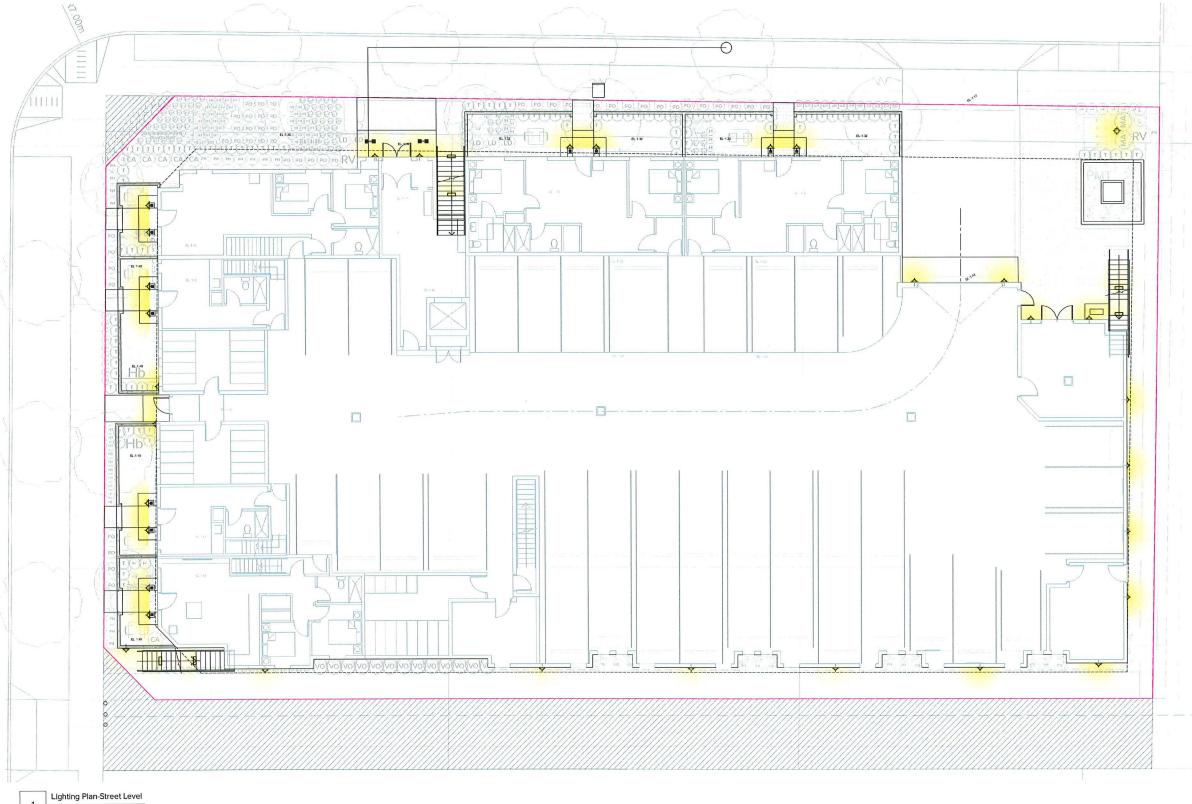
Sheet Title

DETAILS-4

Total Sheets 18	Sheet No. L13	Contractors	Consultants FLAT Architecturel Inc.
Drawn By SD	Checked By RD	AHJ City of Richmond	Documents DP Application
Reviewed By RD	Status REZONING		

No	Date	Issue Notes	
K	05-04-22	DP Resubmission	
L	05-07-22	DP Resubmission	
М	03-10-22	DP Resubmission	
N	27-10-22	DP Resubmission	
0	20-01-23	DP Resubmission	
Р	21-03-23	DP Resubmission	
Q	03-04-23	DP Resubmission	





DESIGN RATIONALE OF SELECTED LIGHTING

On the entrance of the site from East, we want warm, inviting and calm appearance of the site and did not want too many distractions. So, there are wall light mounted at the entrance of the unit at planter wall to create inviting atmosphere for residents. These fixtures has potential for louvered shades to eliminate glare. At the corner of SE bicyle parking is screened from the street walkway and provided with bollard light for safe space and maneuver for cyclists as well as it can provide sufficent lighiting to the wheelchair ramp. Rest of the illumination on the East of the site are provided by the building light and wall mounted lights at the exterior walls.

The same concept applied on the North side of the site and wall mounted lights are mounted on building walls.

Lane along the west and south property line with 1.5m walkway is illuminated with wall mounted lights on the building which provide smooth transition and ample lighting for pedestrain for crossing. The step lights are proposed at the stairs going to the deck level for smooth transition.

The main design criteria followed for lighting are as follows:

*Landscape lights are provided only where building mounted lights are incapable of illuminating any external spaces.

*Most landscape lights used are indirect and do not offer any unwanted glare with build in anti glare shading systems.

*No direct lighting fixtures are placed anywhere on the suite that offer security and reduce light pollution.





2 Wall Mounted Light
Scale: NTS

1 Lighting Plan-Street Level
Scale: 1:96

DP 21-932383

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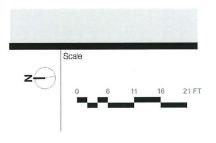
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Owner
Sheet Title
LIGHTING PLAN (SITE)

Total Sheets 18	Sheet No. L14	Contractors	Consultants FLAT Architecturel Inc.
Drawn By SD	Checked By RD	AHJ City of Richmond	Documents DP Application
Reviewed By RD	Status REZONING		

No	Date	Issue Notes	
K	05-04-22	DP Resubmission	
L	05-07-22	DP Resubmission	
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N	27-10-22	DP Resubmission	
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Q	03-04-23	DP Resubmission	





Total Sheets

DESIGN RATIONALE OF DECK LEVEL

At the podium level, there is enough light just $\,$ beisde the stairs on NW $\,$ as well as SE corner. Which helps to provide illumination for movement and by the help of wall where lighting fixtures mounted will eventally helps to reduce the back spill in this case.

North facing units backyard at podium level are illuminated by the building lights and the path to access those units are illuminated with wall mounted lights at the center of the planter wall thorugh the east access of the stairs. At the pathway from NW to East stairs acess there would be minimum light spill because of the reflectance of the adjacent objects.

To aid the process of enhancing outdoor geathering area there are two bollards lights which can illuminate the fire pit as well as the entrance pathway. Moreover, wall mounted light has been selected for adorment of kitchen seating area.

The main design criteria followed for lighting are as follows:

*Landscape lights are provided only where building mounted lights are incapable of illuminating any external spaces.

*Most landscape lights used are indirect and do not offer any unwanted glare with build in anti glare shading systems.

*No direct lighting fixtures are placed anywhere on the suiite that offer security and reduce light pollution.





WALL MOUNTED LIGHT: CYPHER CY2- RADIUS CURVE



BOLLARD LIGHT: PROVIDENCE BOLLARD LIGHTING



STEP LIGHT: ALCON LIGHTING

Lighting Plan-Deck Level Scale: 1:96



ARCHITECTURE | LANDSCAPE ARCHITECTURE | URBAN DESIGN

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8951, 8971 Spires Rd, 8991 Spires Gate Owner

LIGHITNG PLAN (DECK

LEVEL)

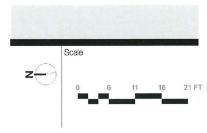
Contractors 18 L15 FLAT Architecturel Inc. Drawn By Checked By Documents City of Richmond **DP Application** SD RD Reviewed By Status REZONING

Consultants

Sheet No.

April 20, 2023

NO	Date	Issue Notes
K	05-04-22	DP Resubmission
L	05-07-22	DP Resubmission
М	03-10-22	DP Resubmission
N	27-10-22	DP Resubmission
0	20-01-23	DP Resubmission
Р	21-03-23	DP Resubmission
Q	03-04-23	DP Resubmission

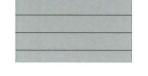


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EXTERIOR HIGH DENSITY FIBRE CEMENT BOARD C/W EASY TRIMS TO 3 MATCH COLOR: AGED PEWTER

4 TRADITIONAL 3 COAT STUCCO
SYSTEM: ARCTIC WHITE

6 FASCIA AND BARGE BOARD : WOOD SHERWIN WILLIAMS ELLIE GRAY

- PARKADE GATE AND SERVICE DOORS : METAL DOOR- FINISH BLACK COLOUR R.W.L / GUTTERS : GENTEK METTALIC GREY 5P4 SOFFIT : VINYL WHITE

- RAILING: ALUMINUM PIQUET RAILING FINISH BLACK COLOUR



Unit 209-6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca

Ph: 604-503-4484

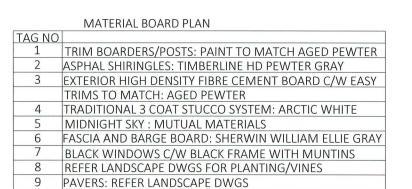
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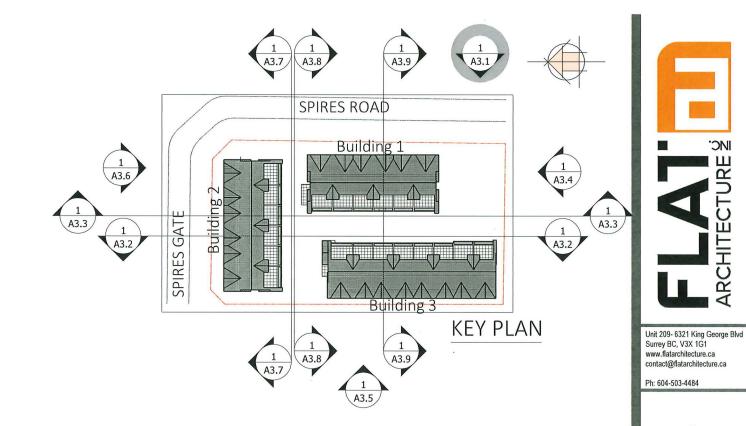
23-Feb-23 PROJECT NO:

17-127 SCALE: DRAWN BY: As Noted R.W

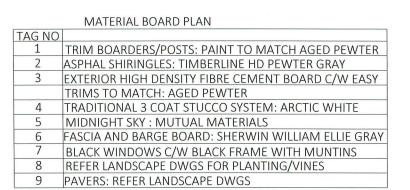
MATERIAL BOARD

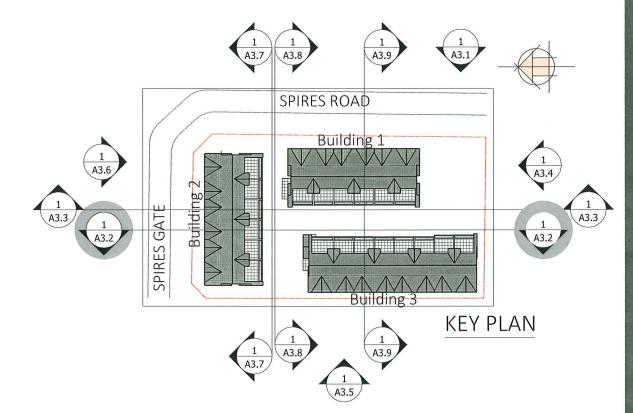
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contact@flatarchitecture.ca

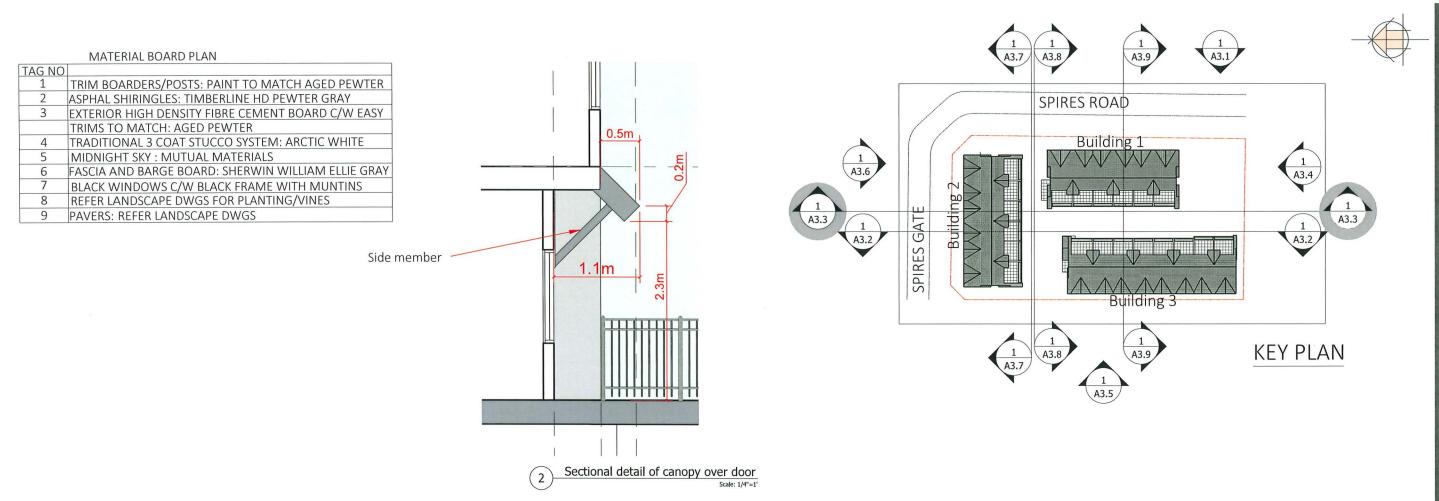
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29-Mar-23 PROJECT NO:

17-127 SCALE: DRAWN BY: As Noted R.W

PODIUM LVL ELEV





1 Podium Level Elevations / WEST ELEVATION

Scale: 1/16"=1"

FLAT ARCHITECTURE S

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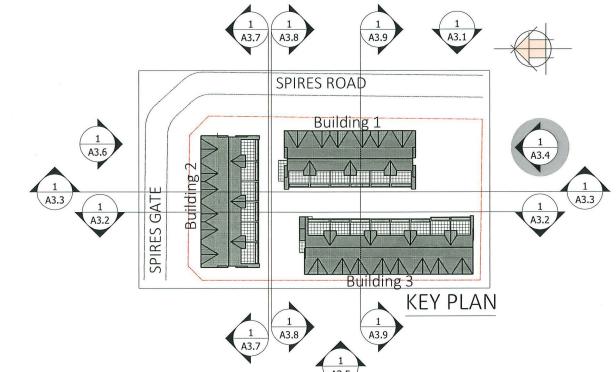
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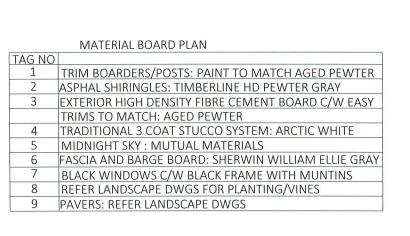
PROJECT INFO:
Townhouse Development at 8951,
8971 Spires Rd., 8991 Spires Gate,
Richmond, BC
CLIENT:
Juliana

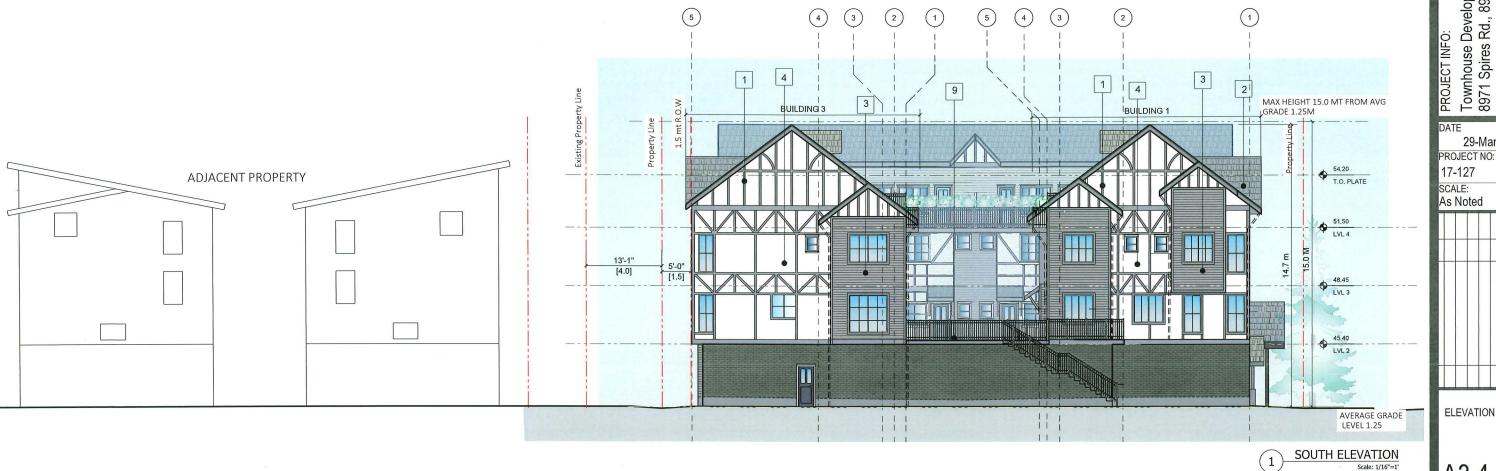
29-Mar-23
PROJECT NO:
17-127
SCALE: DRAWN BY:
As Noted R,W

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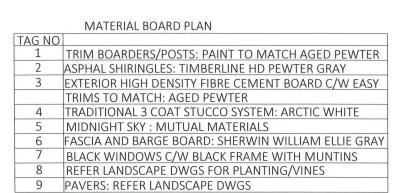
WEST ELEVATION

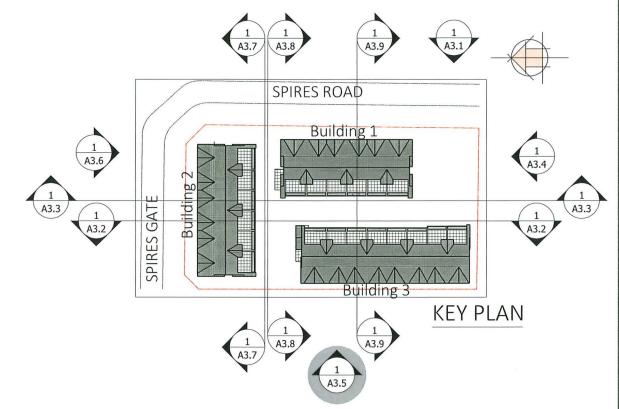






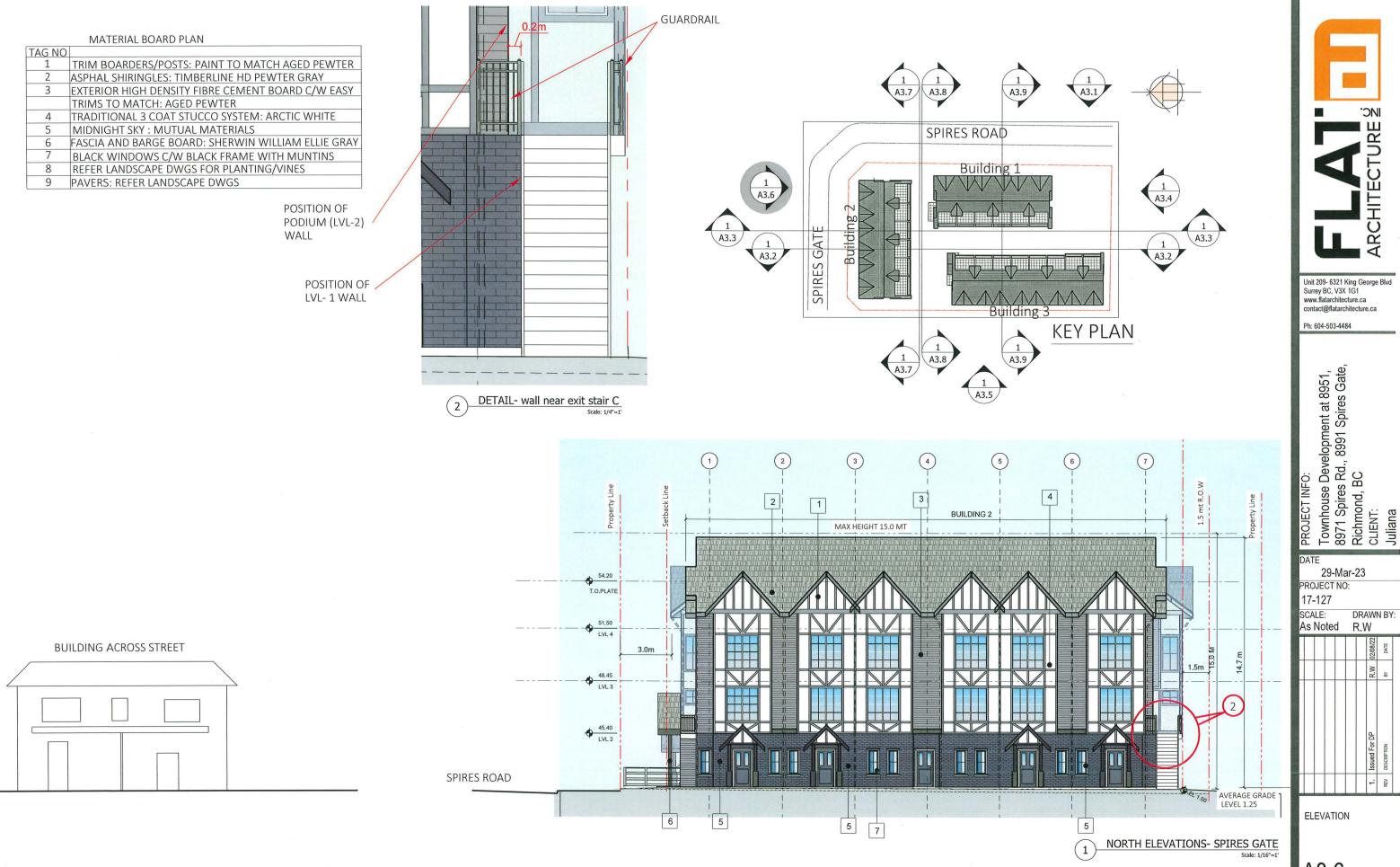
Unit 209-6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca PROJECT INFO:
Townhouse Development at 8951,
8971 Spires Rd., 8991 Spires Gate,
Richmond, BC
CLIENT:
Juliana 29-Mar-23 PROJECT NO: 17-127 SCALE: DRAWN BY: As Noted R.W







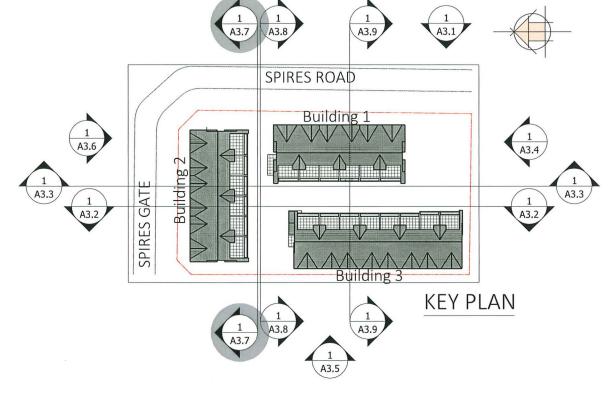
■ **L** ARCHITECTURE § Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 contact@flatarchitecture.ca Ph: 604-503-4484 Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT: Juliana 29-Mar-23 PROJECT NO: SCALE: DRAWN BY: As Noted R.W **ELEVATIONS** A3.5



DP 21-932383 Plan #39 April 20, 2023

MATERIAL BOARD PLAN

	IVIATENIAL BOAND FLAN
TAG NO	
1	TRIM BOARDERS/POSTS: PAINT TO MATCH AGED PEWTER
2	ASPHAL SHIRINGLES: TIMBERLINE HD PEWTER GRAY
3	EXTERIOR HIGH DENSITY FIBRE CEMENT BOARD C/W EASY
	TRIMS TO MATCH: AGED PEWTER
4	TRADITIONAL 3 COAT STUCCO SYSTEM: ARCTIC WHITE
5	MIDNIGHT SKY : MUTUAL MATERIALS
6	FASCIA AND BARGE BOARD: SHERWIN WILLIAM ELLIE GRAY
7	BLACK WINDOWS C/W BLACK FRAME WITH MUNTINS
8	REFER LANDSCAPE DWGS FOR PLANTING/VINES
9	PAVERS: REFER LANDSCAPE DWGS



F L A ARCHITECTURE ≦

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23-Feb-23 PROJECT NO:

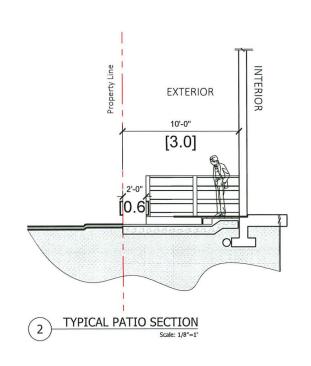
SOUTH ELEVATIONS

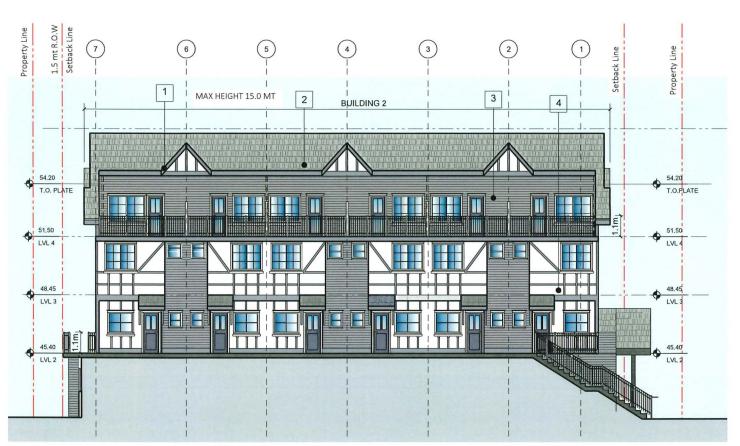
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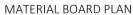
17-127 SCALE:

As Noted

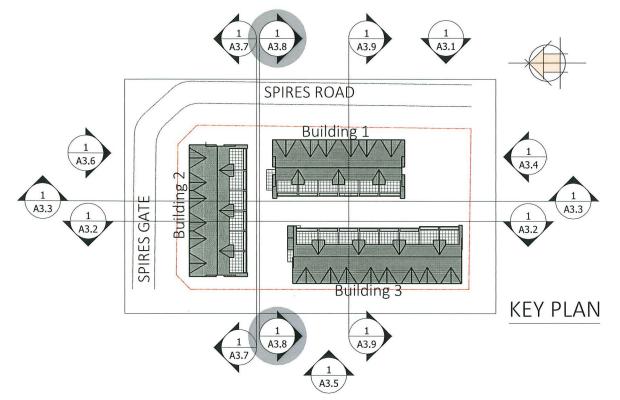


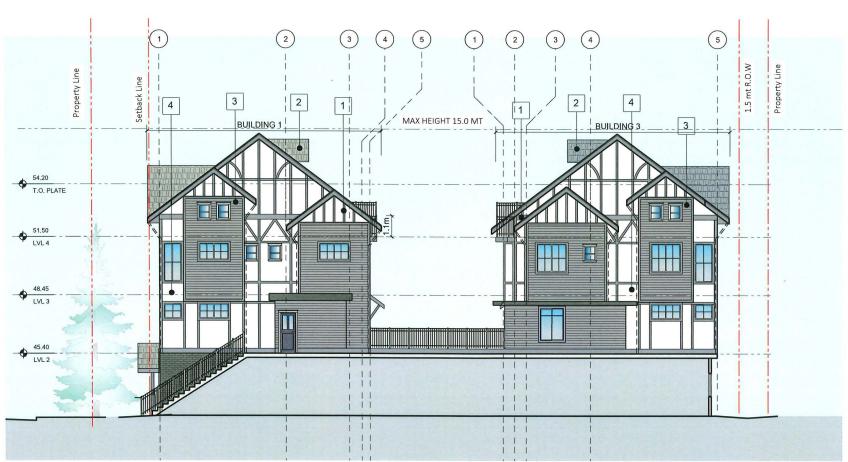


Podium Level Elevations Building 2 (South Side)



TVI/TERINE BOTTLE TETT							
TAG NO							
1	TRIM BOARDERS/POSTS: PAINT TO MATCH AGED PEWTER						
2	ASPHAL SHIRINGLES: TIMBERLINE HD PEWTER GRAY						
3	EXTERIOR HIGH DENSITY FIBRE CEMENT BOARD C/W EASY						
	TRIMS TO MATCH: AGED PEWTER						
4	TRADITIONAL 3 COAT STUCCO SYSTEM: ARCTIC WHITE						
5	MIDNIGHT SKY : MUTUAL MATERIALS						
6	FASCIA AND BARGE BOARD: SHERWIN WILLIAM ELLIE GRAY						
7	BLACK WINDOWS C/W BLACK FRAME WITH MUNTINS						
8	REFER LANDSCAPE DWGS FOR PLANTING/VINES						
9	PAVERS: REFER LANDSCAPE DWGS						





North Elevation
Scale: 1/16"=1'

FLAT ARCHITECTURE \$\frac{1}{2}\$

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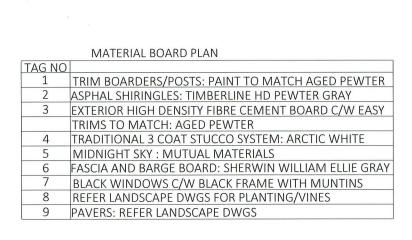
TOWNHOUSE Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT: Juliana

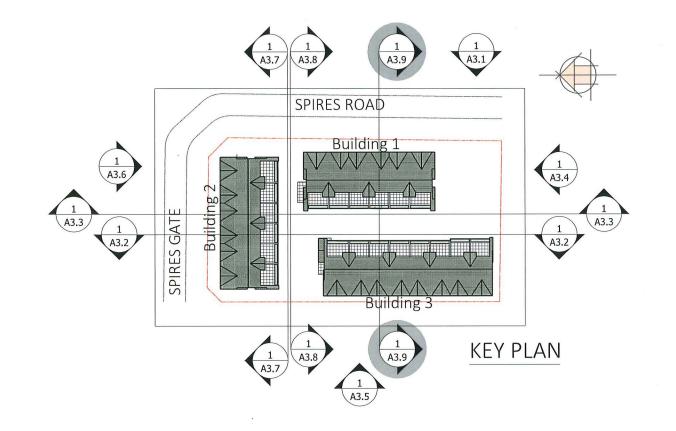
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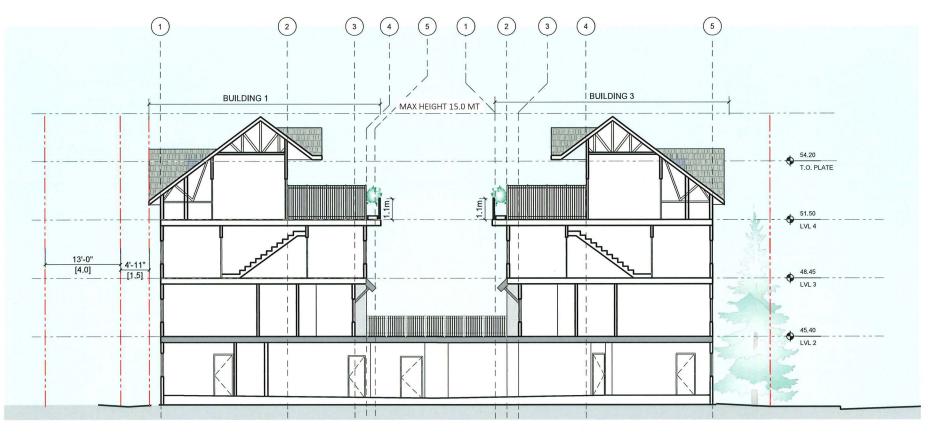
23-Feb-23 PROJECT NO:

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NORTH ELEVATIONS







Section North Side

A3.9

SECTION (NORTH)

ARCHITECTURE ≦

Unit 209- 6321 King George Blvd

Surrey BC, V3X 1G1

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23-Feb-23 PROJECT NO:

17-127

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3D VIEW



VIEW FROM CORNER OF SPIRES GATE AND SPIRES RD
Scale: N.T.S.



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Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT:

23-Feb-23 PROJECT NO: 17-127

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3D VIEW



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Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC CLIENT: Juliana

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23-Feb-23 PROJECT NO: 17-127

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3D VIEW



1 VIEW FROM NORTHWEST CORNER Scale: N.T.S.



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Townhouse Development at 8951, 8971 Spires Rd., 8991 Spires Gate, Richmond, BC

DATE
23-Feb-23
PROJECT NO:

17-127
SCALE: DRAWN BY: As Noted R.W

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							R.W 02/08/22	DATE	
							R.W	Α,	
							Issued For DP	DESCRIPTION	
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3D VIEW



Report to Development Permit Panel

To: Development Permit Panel

Date: April 20, 2023

From: Wayne Craig

File: DP 21-943565

Director, Development

Re: Application by Orion Construction for a Development Permit at

9800 Van Horne Way

Staff Recommendation

That a Development Permit be issued which would permit the construction of two multi-tenant light industrial buildings at 9800 Van Horne Way on a site zoned "Light Industrial (IL)".

Wayne Craig

Director, Development

(604-247-4625)

WC:bb

Att. 4

Staff Report

Origin

Orion Construction, on behalf of the owner of the subject property, has applied to the City of Richmond for permission to develop two industrial buildings on the subject lot at 9800 Van Horne Way. The owner intends to sell the buildings as strata titled units after completion of the project. The development site is currently zoned "Light Industrial (IL)" and contains one industrial building as well as accessory storage uses.

A Servicing Agreement is required prior to Development Permit issuance, and includes, but is not limited to, the following improvements:

- decommissioning and replacement of the existing water main located along the Van Horne Way frontage;
- decommissioning and replacement of the existing sanitary main along the Van Horne Way frontage;
- decommissioning and replacement of the storm sewer main located along the Van Horne Way frontage; and,
- frontage improvements to both River Drive and Van Horne Way including the undergrounding of utilities, street lighting as well as widening of the existing boulevard from 1.0m to 1.5m along Van Horne Way.

Development Information

Please refer to attached Development Application Data Sheet (Attachment 1) for a comparison of the proposed development data with the relevant Bylaw requirements.

Background

The subject site and the surrounding area are located in a predominantly industrial neighbourhood within the City Centre Area Plan. Development surrounding the subject site is as follows:

- To the North: Across River Drive, a "Light-Industrial (IL)" zoned property currently operated by South Coast BC Transportation Authority.
- To the South: The CP railway right-of-way (which is identified in the CCAP as a future City road), and further south, an industrial building offering mixed-employment uses on a site zoned "'Light-Industrial (IL)".
- To the East: A "Light-Industrial (IL)" zoned property containing two warehouse buildings used for storing trailers. The property is subject to an active rezoning application currently at third reading (ZT 16-753545) to allow non-accessory vehicle parking. The property further east is owned and operated by BC Hydro and contains service utility infrastructure.
- To the West: Across Van Horne Way, two "Light-Industrial (IL)" zoned properties used by South Coast BC Transportation Authority.

Related Policies and Studies

Aircraft Noise Sensitive Development Policy

The subject site is located within Aircraft Noise Areas 1A and 2, which would restrict all new noise sensitive uses. The proposed industrial use is not restricted, and noise mitigation is not required. Prior to issuance of the Development Permit, the applicant is required to register an aircraft noise covenant on Title to address public awareness of the potential impact of aircraft noise on the site.

Floodplain Management Implementation Strategy

The proposed redevelopment must meet the requirements of Richmond Flood Plan Designation and Protection Bylaw 8204. Registration of a flood indemnity covenant on Title is required prior to issuance of the Development Permit.

Site Disclosure Statement

The applicant must provide confirmation of compliance and approval from the Ministry of Environment with regard to site investigation for any contaminants due to previous activities on the property prior to the issuance of the Development Permit.

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the applicable sections of the Official Community Plan, City Centre Area Plan and is generally in compliance with the "Light Industrial (IL)" zoning regulations.

Advisory Design Panel Comments

On February 8, 2023, the Advisory Design Panel supported the subject Development Permit application moving forward to Development Permit Panel, subject to consideration of the panel's comments. The applicant has incorporated a number of design changes in response to the Panel's comments, including:

- Commitment to install five (5) Electric Vehicle (EV) charging stations in the parking areas. The charging stations are distributed throughout the parking areas with two (2) stations west of Building A, one (1) to the south of Building A adjacent to an outdoor amenity area, and two (2) west of Building B along the central drive aisle between the two buildings.
- Relocating the garbage enclosure to an area south of Building A and away from the edge of the future road south of the site.
- Providing more surface texture and line painting in the parking area to demarcate pedestrian pathways and enhancing pedestrian safety.
- Providing a centrally-located outdoor amenity area south of Building A.
- Providing an additional outdoor landscaped and amenity area immediately east of Building B.

A copy of the relevant excerpt from the Advisory Design Panel Minutes from February 8, 2023 is attached for reference (Attachment 2). The design response from the applicant has been included immediately following the specific Design Panel comments and is identified in 'bold italics'.

Analysis

Conditions of Adjacency

- The buildings are designed to have a strong visible presence along both River Drive and Van Horne Way.
- Building A, which is the smaller building of the two, is proposed to be closer to the western portion of the site, and would have a strong visible presence along Van Horne Way.
- Both Buildings A and B would have a strong visible presence from trains entering and exiting the City via the Canada Line.
- The buildings are proposed to have similar height to the majority of the industrial buildings in the immediate area.
- The edges of the site would be landscaped through planting of shrubs, flowerbeds and trees in order to provide buffering from the streets as well from the lot south of the property, which is currently hosting the CP railway right-of-way and is earmarked for redevelopment as a future City road.

Urban Design and Site Planning

- The proposed development includes two new two-storey light industrial buildings that are oriented north-south.
- Vehicular access to the site is provided via one driveway off River Drive and two (2) off Van Horne Way. The two buildings are separated by a central drive aisle which contains loading areas as well as the majority of the on-site parking spaces. The proposed access locations and building arrangement has been designed to accommodate on-site truck turning movements.
- Building A will have three (3) painted and textured pedestrian access-ways from the multiuse pathway along Van Horne Way and connect to Building A. Paths of travel for pedestrians to the rest of the site are proposed to be clearly demarcated in order to provide additional pedestrian safety within the site.
- The CCAP identifies a future City road located along the southern portion of the property. In in order to accommodate the construction of the future City road, the developer has agreed to provide a minimum 6.94 m wide Statutory Right-of-Way (SRW) along the properties southern frontage. This SRW is consistent with the SRW secured along the southern portion of the adjacent property to the east at 9920 River Road through the associated Zoning Text Amendment process for that property (ZT 16-753545).
- A garbage and recycling enclosure is proposed on the southeast corner of Building A. The proposed enclosure is to be on a concrete slab with steel swing doors finished to match the design character of the buildings.
- Sixty-six (66) Class 1 bicycle spaces are provided within the buildings in individual units. An additional 62 Class 2 bicycle spaces are provided via several bicycle racks grouped into 18 locations near building entrances and outdoor amenity areas.

Architectural Form and Character

- Two industrial buildings with similar design features and appearance are proposed.
- The buildings have a modern industrial appearance, with extensive glazing on all four elevations with a flat roof.
- Full-height vertical elements with accenting materials such as aluminum and metal cladding, break up the horizontal massing along all elevations for both buildings.
- Both buildings will incorporate built-in canopies along their west elevations in front of
 individual units' entrances in order to provide visually-pleasing façades and weather
 protection for employees and visitors.
- All elevations will include a variety of building material and colours for accenting as well as cladding to further signify the modern industrial character of the site and in order to integrate the buildings' form and character with the immediate neighbourhood's. Proposed building materials would include concrete, aluminum, steel, and clear and spandrel glazing.

Tree Removal, Replacement and Retention

- There are a total of 21 bylaw sized trees on the subject site. A Tree Management Plan is provided in Attachment 3.
- The applicant proposes to remove fourteen (14) trees. Two (2) trees proposed to be removed, which are located along the south property line, are in poor condition. Nine (9) trees proposed to be removed are adjacent to the existing on-site building and their retention would be impacted by the demolition of the existing building and associated construction works to accommodate any on-site development in the future. Three (3) trees, which are in fair to good condition, have been identified for removal due to conflict with the proposed Building B envelope.
- The City's 2:1 replacement ratio would require a total of 28 bylaw sized trees to be planted in lieu of the proposed trees' removal. The applicant is proposing to plant 40 bylaw sized trees on-site, which would exceed the minimum requirement of 28 replacement trees. The proposed replacement trees would include a mix of coniferous and deciduous species. Deciduous trees are proposed in close proximity to the parking areas to allow for clear sight lines, while eight (8) coniferous trees are to be planted along Van Horne Way frontage, clustered with other plantings.
- The applicant proposes to retain seven (7) trees (Tag #936, 937, 949, 5059, A, B, C) along the south property line. Prior to Development permit issuance, the applicant shall submit to the City a copy of a signed contract with a Certified Arborist to confirm the supervision of all works conducted within or in close proximity to tree protection zones. The contract must include the scope of work required, the number of proposed monitoring inspections at specified stages of construction, any special measures required to ensure tree protection, and a provision for the arborist to submit a post-construction impact assessment to the City for review.
- Prior to demolition of the existing building on the subject site, installation of tree protection
 fencing around all trees would be required. Tree protection fencing must be installed to City
 standard in accordance with the City's Tree Protection Information Bulletin Tree-03 prior to
 any works being conducted on-site, and remain in place until construction and landscaping
 on-site are completed.

The applicant is required to provide security deposit of \$70,000.00 for the protection and retention of the aforementioned seven (7) on-site trees.

Landscape Design and Open Space Design

- The focal pedestrian access to the site would be through the northwest at the corner at the intersection of Van Horne Way and River Drive. The entry point would include an outdoor amenity space designed to function as a plaza, comprising of seating as well as a landscaped area with a mix of shrubs, plants and flowers. The plaza area would also include a public art installation, which is required as part of the City of Richmond's Public Art policy for development proposals of this scale (See Public Art section below for more detail).
- The landscaping buffer of 3 meters fronting Van Horne Way will include a mix of deciduous trees as well as native plants and shrubs in addition to the eight (8) coniferous trees noted earlier, providing a diverse and seasonally varied landscaped area.
- Landscaping buffer of 3 meters fronting River Drive, north of Buildings A and B, will include a mix of deciduous trees and native plants and shrubs that are layered to provide seasonal variation and texture.
- An enlarged landscaped and outdoor amenity area is provided immediately east of Building B fronting River Drive. The landscaped area would include shrubs and plants around a central seating space which includes picnic tables and benches. The area would be accessible from both River Drive and via Building B.
- There are twelve (12) smaller landscape amenity areas in font of several individual units in both buildings. These spaces would contain benches and bicycle racks. Four of the areas in front of Building A would be landscaped with perennial shrubs and plants and each space would contain one (1) deciduous tree.
- An enlarged landscaped outdoor area is provided south of Building A. This space would contain a mix of trees and shrubs and would include several benches and bicycle racks.
- A landscaped outdoor area is provided on the southeast corner of the site bordering the edge of the future road planned for the CP railway right-of-way. This area would be landscaped with several deciduous trees as well as shrubs and plants, and would include benches and a picnic table for use by future employees and visitors.
- The applicant is required to submit an acceptable security for landscaping in the amount of \$126,108.30 plus applicable taxes, inclusive of a 10 per cent contingency cost, prior to the issuance of the Development Permit.
- Irrigation is to be provided for all soft landscaped areas with the utilization of a high efficiency irrigation system.

Sustainability

- The buildings are designed to achieve a minimum 10% saving on energy cost budget from the BC Building Code baseline standard (ASHRAE 90.1), which would be confirmed through an energy model, and outdoor lighting will be high efficiency LED to aid building energy efficiency (Attachment 4).
- Both buildings have been designed to allow for the installation of future solar photovoltaic roof mounted panels by individual tenants in the future, should the future tenant choose to do so.

- The proposed bicycle parking exceeds the requirements in the Zoning Bylaw and electrical outlets would be installed near several bicycle racks along buildings' walls to promote e-bike usage.
- All units would have the potential for Electric Vehicle charging stations through Electric Vehicle rough-in installations. This would enable the installation of charging stations for approximately 88 parking stalls in the future, which would be 46 per cent of the total number of on-site parking spaces proposed. In addition, the applicant has agreed to install five (5) Electric Vehicle (EV) charging stations through the parking areas. The charging stations would provide active charging to ten (10) vehicles.
- The landscaping plan includes drought-resistant species with minimal water usage requirements.

Crime Prevention Through Environmental Design

- The site has three (3) access points for vehicles and five (5) access points for pedestrians. Pedestrian pathways have clear sightlines from individual units in both buildings.
- Outdoor lighting will consist of wall-mounted LED lighting around both buildings and will also include surface-based lighting in front of units and loading areas. Lighting fixtures would be installed so as to ensue that lighting is directed downward thus limiting light spillover onto the adjacent sites.
- Outdoor amenity areas are to be built in areas with high visibility from various units in both buildings.
- The outdoor amenity area east of Building B would be visible from River Drive and would be accessible via Building B as well as from River Drive. The area would be well-lit with surface and wall-mounted LED lighting and landscaping would be done in such manner as to promote high visibility into and within the area.

Public Art

• As per the City's Public Art policy the developer is providing a voluntary contribution to Public Art in the City. The applicant has committed to provide a public art installation onsite at the northwest entry plaza area. The public art installation will be in the form of a multi-coloured surface mural throughout the entry plaza area and was endorsed by the City of Richmond's Artist Selection Panel on December 13, 2022. A legal agreement and letter of credit securing commitment to the installation and maintenance of the art installation will be registered between the owner and the City prior to the issuance of the Development Permit.

Site Servicing

- The applicant is required to enter into a Servicing Agreement prior to Building Permit issuance for the design and construction of the required site servicing and off-site work including but not limited to:
 - o Road frontage improvements along Van Horne Way and River Drive
 - o Drainage upgrades,
 - o Sanitary system analysis, and
 - o Watermain upgrade.

Conclusions

As the proposed development is consistent with the applicable policies and Development Permit Guidelines, staff recommend that the Development Permit be endorsed, and issuance by Council be recommended.

The list of Development Permit Considerations is included in Attachment 5, which has been agreed to by the owner (signed concurrence on file).

Babak Behnia

Planner 2

(604-204-8639)

BB:cas

Att. 1: Development Application Data Sheet

- 2: Excerpt from the Meeting minutes of the Advisory Design Panel (February 8, 2023)
- 3: Tree Management Plan
- 4: Sustainability Strategy
- 5: Development Permit Considerations



Development Application Data Sheet

Development Applications Department

DP 21-943565		Attachment 1
Address: 9800 Van Horne Way		
Applicant: Orion Construction	Owner:	1321791 BC LTD
Planning Area(s): City Centre		

	Existing	Proposed
Site Area:	36 379.78 m²	No change
Land Uses:	Industrial	No change
OCP Designation:	Industrial	No change
Zoning:	Light Industrial (IL)	No change
Number of Units:	1	44 industrial units in two (2) buildings

	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	1.2	0.62	None permitted
Gross Floor Area	43,603.2 m ²	22,609 m²	None
Lot Coverage for Buildings:	Max. 80%	48.6%	None
Setback – Front Yard:	Min. 3 m (north)	3 m	None
Setback – Side Yard:	Min. 0 m (east)	1.2 m	None
Setback – Exterior Side Yard:	Min. 3 m (west)	13 m	None
Setback – Rear Yard:	Min. 0 m	Building A: 15.7 m Building B: 15.8 m	None
Height (m):	Max. 16 m	Building A: 9.9 m Building B: 10.3 m	None
Off-street Parking Spaces – Regular/Commercial:	146	190	None
Off-street Parking Spaces – Accessible:	3	5	None
Amenity Space – Outdoor:	N/A	706 m2	None

Excerpt from the Meeting minutes of the Advisory Design Panel (February 8, 2023)

Panel Discussion

Comments from Panel members were as follows:

- understand the constraints of the long and narrow site from a design perspective;
- consider incorporating different levels of electric vehicle (EV) charging stations either spread out or concentrated in one area of the subject site considering the size of the proposed industrial development and the potential needs of tenants;

There will be several level 2 EV charging stations installed at the development. They have been dispersed appropriately. Level 2 chargers are a widely accepted standard and is an appropriate level of charging for a workplace.

ensure that the proposed outdoor storage space adjacent to the property owned by BC Hydro does not become unsightly (e.g. a depository for garbage and junk) and follow the City's guidelines for outdoor storage spaces; consider installing a fence for the outdoor storage space; also consider incorporating an amenity space in the outdoor storage space;

The outdoor storage area has been placed further from the road providing room for an amenity space and landscaped area. A 6' high fence is also provided around this storage yard, which will support the City or Richmond and ADP comment to screen this area. Privacy slates have been specified to screen the outdoor storage. All design and materials decisions pertaining to the SRW, including the provision of amenity spaces and fencing, are subject to the approval of BC Hydro. The proposed landscaped area, amenity space, and storage yard are subject change.

consider relocating the proposed garbage and recycling enclosure to the north and adjacent to Building A as the future road could become a busy road in the future and would be highly visible to the public; also consider other interim uses for the road-right-of-way, e.g. use the space for community gardens as there is demand for this type of outdoor amenity space;

The garbage enclosure has been moved adjacent to Building A per the ADP's recommendation.

consider incorporating a more focused, dedicated and substantial landscaped area in the subject site at the front of the subject site to create a more visually appealing entrance to the site; consider shifting Building B to the south to provide space for this landscaped area without reducing the buildable area in the project;

The landscape area north of the buildings includes different sizes and colors of plant species to provide a visually appealing buffer along River Drive. Attractively landscaped amenity areas have been provided at the north-east of Building B and at the north-west of Building A to increase the landscape area near the roadway.

• consider installing tastefully designed line painting on the internal drive aisles of the subject site to demarcate pedestrian and vehicular circulation routes, e.g. "pedestrians only", "cyclists only, "no parking" pavement signs to enhance the safety of pedestrians and cyclists safety on the site;

For the street connections, from the multiuse path to the front of Building A on the west of the property, the drive aisle is proposed to be saw-cut with a colour contrasting finish. This will provide an obvious visual and tactile route of travel. For the pedestrian paths of travel between the buildings, line painting is proposed to demarcate the anticipated locations of pedestrian travel to pedestrians and vehicles.

appreciate the legal agreement registered on Title that includes safeguarding the long-term durability/maintenance of the proposed public art in the project; the public art artist/designer is encouraged to use sustainable materials for longterm use or materials that can be replaced economically to ensure the long-term maintenance of the proposed public art;

Durability and sustainability have been considered to date. The project team will continue to work with the artist and art consultant to ensure sustainability and economical replacement are key consideration during material selection.

- appreciate the applicant's focus on public art considering the industrial use of the site; the proposed public art would provide an interesting visual experience from Canada Line;
- review the location of the seating area in the corner plaza at the northwest corner and consider the safety of users from trucks turning at the corner; consider increasing the size of the corner plaza considering the size of the proposed industrial development, e.g. convert two adjacent parking stalls into a landscaped area to become part of the plaza;

The north corner amenity plaza is within the site and the City of Richmond's engineering staff have considered the turning radius in the design of the road and multi-use pathway adjacent to our site at this corner.

- support the Panel comment to relocate the garbage and recycling enclosure elsewhere on-site and utilize the future road ROW for community gardens in the interim; also support the Panel comment to relocate the garbage and recycling enclosure to the space adjacent to Unit 126 in Building A;
- does not agree with the applicant's approach to provide more parking stalls as a marketing strategy; consider providing just the required minimum number of parking stalls and turn the extra parking stalls into an amenity space; the project could attract more tenants by providing more amenity spaces;

The project team are confident that the design has managed to strike a balance between providing attractive amenity spaces dispersed across the property and providing parking for employees and visitors. There are 44 units planned for the site. The users of these units have not been identified. Providing the site with ample parking ensures consumer facing businesses have adequate parking and will ensure there are no conflicts between users for spaces.

 proposed location for garbage and recycling enclosure is an ideal location for an outdoor amenity space as it is centrally located; consider relocating the garbage and recycling enclosure to a more hidden area in the subject site;

The garbage enclosure has been moved adjacent to Building A per the ADP's recommendation.

 agree with the Panel comment that the proposed corner plaza at the northwest corner is too small considering the size of the project; concerned about the usability of this amenity space as its location does not provide privacy to users;

The plaza is designed to be open and welcoming, with multiple lines of sight. Excessive privacy measures for amenity spaces have the potential to create safety concerns outside of peak hours.

The plaza is a prominent site entrance with adequate seating and landscaping, balancing its need to act as a transitory pedestrian space and amenity area. The size and configuration suits both of these competing priorities. As well, increasing the plaza size would inhibit entry to Unit 101 in Building A. Adding the proposed amenity space to the south of Building A should help relieve concerns with the size of the plaza.

support Panel comments regarding too many extra parking stalls on the site; consider the possibility that some workers would be using public transit and could access the subject site at the southwest corner from Canada Line Bridgeport Station that would result in some pedestrian movement along the south side of Building A; look at ways to mitigate conflict between pedestrian and vehicular traffic on the site;

A street connection at the south side of Building A has been provided to allow for users to enter the site and safely cross the drive aisle to get to the building sidewalk.

consider installing an outdoor amenity space on the south side of Building A as it is centrally located; also consider multiple smaller landscaped areas in selected areas on the site with opportunities for planting of trees to provide shade for users during summer especially in landscaped areas located on the west side of the two buildings;

The amenity area on the South of Building A has also been expanded to provide a second large amenity area that is accessible to both Buildings A and B.

- consider relocating the proposed garden and recycling enclosure elsewhere onsite; however, should the proposed location be retained, consider providing adequate landscaping around the enclosure;
- appreciate the applicant's improved sustainability strategy and comments regarding the use of bioswales and on-site water storage systems;
- review the design of the high SRI building rooftops, e.g. review the size of the ballasts and how it would be visually experienced from Canada Line;

The proposed roofing system is a 12lb per sq.ft. ballast comprised of smooth river rock. This roof system's appearance is not drastically affected by weathering like other materials. The smooth river rock is and will remain an attractive ballast material.

During our review of the Canada Line's adjacency, we determined that the train's height is similar to that of the building height, which will minimize sightlines to the roof. The roofing materials, combined with the height of the building and the speed that the SkyTrain will be traveling at make us confident the roof system's visual experience from the SkyTrain will be inoffensive and in conformance with other industrial developments along the Metro Vancouver's SkyTrain routes.

• support the Panel comment regarding the interim use of the ROW for the future road for outdoor amenity spaces such as community gardens;

The various amenity areas provided across the site satisfy the need for attractive outdoor amenity spaces. A community garden space presents a potential conflict between the tenants and customers of the industrial site and the users of the gardens. As well, this project's location away from significant residential development make demand for a garden minimal.

• future road ROW along the south side of the subject site could provide a linear park that provides connection to the site in the interim especially if there is still no plan to develop the future road; the proposed garbage and recycling enclosure on the south side needs to be relocated elsewhere on-site;

The development's extensive amenity and landscaping area eliminate the need for a linear park along the ROW.

• support the Panel comment to distribute the amenity spaces on the site so there would be fewer but more substantial smaller nodes throughout the site;

• irrigation for the public realm should be provided longer than what was previously required due to climate change; consider introducing water management strategies, e.g. water surge to allow plants to access water through capillary action;

The irrigation strategy proposed will be a high efficiency irrigation system. The plant selection includes native and adaptive plants material to response to water management strategy. Irrigation is noted for boulevard area as well as on site.

- the proposed development is better than a lot of industrial complexes in the City;
- the project is unique for a light industrial development;
- consider enhancing the project's sustainability strategy and integrating further landscaping into the proposed development;

The majority of the plant material is native and drought tolerant species in response to sustainability strategy. The plant locations have been studied to ensure the light requirements for particular plant species have been respected, providing a sustainable environment for plants.

The project's sustainability strategy is strong for an industrial development. It considers elements of building design and siting, energy usage, material choices, transportation sustainability, landscaping and natural considerations, and waste control and reduction measures. The sustainability strategy has incorporated applicable City of Richmond policies.

- support the Panel comment regarding the choice of materials to be used for the proposed public art to ensure long-term maintenance and durability; and
- proposed landscaping treatment in front of Building A is more successful than in front of Building B; investigate further landscaping opportunities in front of Building B, e.g. installing more tree canopies, considering that the number of proposed parking stalls is more than what is required.

Plant material has been carefully chosen to provide four season interest and softening the development, on both the streetscape and in nodes of planting at building B entrances. The area in front of Building B hosts parking and large truck bays, presenting a conflict with exorbitant landscaping.

In addition to the above comments from the Panel, the following written comments were submitted by Panel member Pam Andrews and were read into the record by Viren Kallianpur:

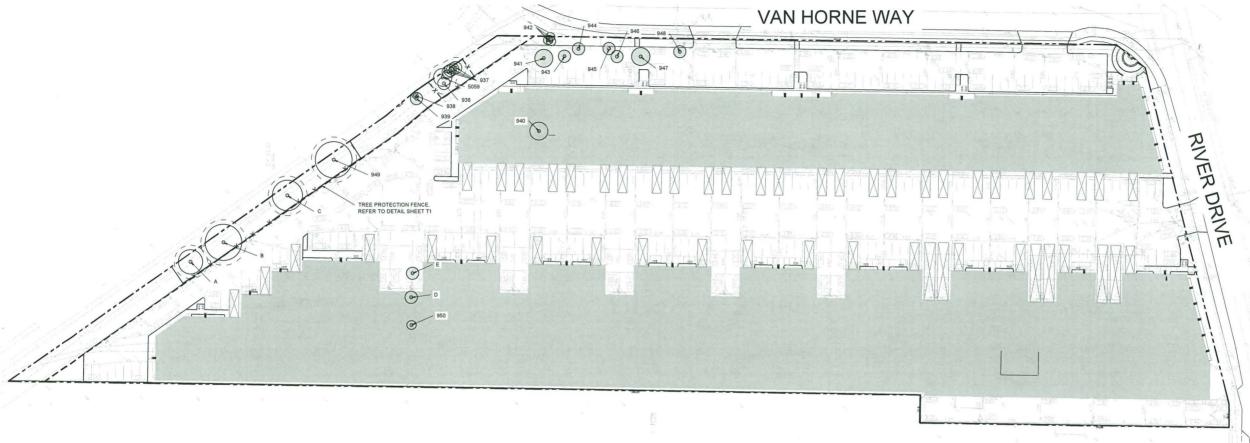
the two multi-tenant light industrial buildings and parking look good.

Panel Decision

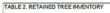
It was moved and seconded

That DP 21-943565 be supported to move forward to the Development Permit Panel subject to the applicant giving consideration to the comments of the Advisory Design Panel.

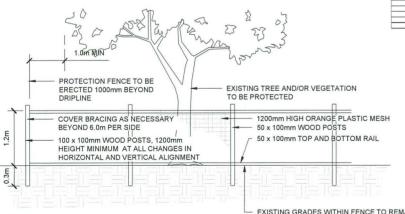
CARRIED







TAG/TREE#	BOTANICAL NAME	COMMONNAME	DBH (cm)	CANOPY RAD. (m)	TPZ (m)	CONDITION	сомментя	RECCOMENDATION
936	Thujapiicata	Western Red Cedar	35, 25	2	3.5	Good		Retain and Protect
937	Thujaplicata	Western Red Cedar	3@20, 30	2	3.5	Good	4 trees growing as a hedge	Retain and Protect
949	Populus trichocarpa	Black Cottonwood	67	6	7.5	Good		Retain and Protect
5059	Thujaplicata	Western Red Cedar	33	3	4.5	Good		Retain and Protect
A	Populus trichocarpa	Black Cottonwood	54	4	5.5	Good		Retain and Protect
В	Populus trichocarpa	Black Cottonwood	75	6	7.5	Good		Regain and Protect
C	Populus trichocarpa	Black Cottonwood	65	5	6.5	Good		Retain and Protect



EXISTING GRADES WITHIN FENCE TO REMAIN UNCHANGED AND UNDISTURBED ATTACHMENT OF FENCE TO TREES WILL NOT BE PERMITTED. ANY EXPOSED ROOTS ARE TO BE HAND PRUNED USING PROPER ARBORICULTURAL PRACTICES.

UNDER NO CIRCUMSTANCES SHALL ANY CONSTRUCTION MATERIALS, EQUIPMENT OR VEHICLES BE PLACES WITHIN THE TREE PROTECTION ZONE. ALL TREE PROTECTION TO BE ERECTED PRIOR TO ANY CONSTRUCTION ACTIVITY AND IS TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED. OBTAIN WRITTEN APPROVAL FROM CONTRACT ADMINISTRATOR PRIOR TO REMOVAL OF FENCING.

Richmond

Tree Protection Zone No Entry





No Lumber or Excavating

Fencing to be installed prior to demolition and remain in place until construction is complete. A fine of \$1,000.00 per tree will be issued for relocating or removing tree protection fencing.

SIGNAGE TO BE ATTACHED TO AT LEAST 2 SIDES OF FENCING. SIGNAGE TO BE MINIMUM 11"X14"

PROTECTING AND MANAGING TREES DURING CONSTRUCTION

I. Upon receiving the necessary approvals and prior to the commencement of tree removals, all areas designated for preservation must be flagged in the field. All designated preservation areas must be left standing and undamaged during the removals work. All tree removals must be felded into the development area. The removals are to be completed outside of the migratory bird nesting season which is generally between mid-March to Mid-April. A Qualified Environmental Professional must provide a report indicating the presence or absence of bird nests for any permit submissions for tre removals during this time of the year.

2. Upon completion of the tree removals, all felled trees are to be removed from the site, and all brush chipped and removed, unless otherwise directed by the Project Manager. No lumber or brush from the clearing is to be stored on the site, all brush, roots and wood debris must be shredded into pie 3. Tree Protection Fencing will be installed along retained tree areas adjacent to areas where

construction will encroach into the adjacent tree edge. Refer to detail provided by Arborist and/or Municipality. 4. Areas within the drip line of the trees designated for preservation are not to be used for any type of

. Aveas writin the origine of the trees designated for preservation are not to be used for any type of storage (e.g. storage of debits, construction materials, surplus sols, and construction equipment). No trenching or tunneling for underground services shall be located within the tree protection zone or di line of trees designated for preservation within or adjacent to construction zone.

5. Trees shall not have any rigging cables or hardware of any sort attached or wrapped around them nor shall any contaminants be dumped within the protective areas. Further, no contaminants shall dumped or flushed where they may come into contact with the feeder roots of the trees.

 In the event that it is necessary to remove additional limbs or portions of trees, after constructio commenced, to accommodate construction, the Consulting Arborist or project administrator is t informed and the removal is to be executed carefully and in full accordance with arboricultural techniques, by a certified and licensed Arborist. 7. During excavation operations in which roots are affected, the Contractor is to prune all exposed ro

7. During excavation operations in wincin roots are allected, the Confiazzor is to prune all exposed roots cleanly. Pruned root ends shall point obliquely downwards. The exposed roots should not be allowed to dry out. The Contractor shall discuss watering of the roots with the Owner and Contract. Administrator prior to pruning to ensure that so that optimum soil moisture is maintained during construction and backfilling operations. Backfilling must be completed with clean, uncontain

While reasonable efforts have been made to ensure that the trees recommended for re healthy, no guarantees are offered or head to glied these trees or any part in cleantain at each whealthy, no guarantees are offered or practically impossible to predict with absolute certainty the behavior of an single tree or group of trees in all circumstances. Investigate, standing the will always pose some risk Most trees have the potential for failure provided with the necessary combinations of stresses and elements. This risk can only be eliminated if the tree is network.

Although every effort has been made to ensure that this assessment is reasonably accurate the should be re-assessed periodically. The assessment presented here is valid at the time of inspire

ONSTRUCTION MITIGATION AND MANAGEMENT

OTENTIAL CONSTRUCTION IMPACTS TO TREES Trees are living organisms that react to changes in their environment. Trees can be damaged construction without showing signs of damage until some years later. Many of the problems nr crosts and result in slow death of the tree through its inability to absorb sufficient water and nut

The leading cause of construction damage to trees is compaction of the soil around the roots. Equipment entering into a preservation zone compresses the air pockets around the roots inhibiting the from absorbing nutrients and water. This damage ultimately reduces the health of the tree. Accordingly, during the removal stage, equipment use within the preservation zones should be restrict on ensure that the tree's roots are not disturbed, thereby assisting to maintain their continued health.

ECHANICAL DAMAGE

Equipment can also physically damage the trees through striking the trunk, limbs and/or roots. Felled trees can also cause damage during the tree removal stage of development. Some damage is unavoidable due to the density of the trees, however, through the use of proper equipment and best

During construction, there are situations where work must be completed within a protection zone that whave an impact to the roots of the preserved trees. The most common root injury is cutting typically caused by trending for utilities. The feeder roots of a tree are typically studied within the upper of the soil profile. Any trenching or excavation within this zone will damage roots. Roots play a critical root is an accining at these. If major support roots are severed the ten is more susceptible to wind throw damage and could pose a hazard to adjacent structures and people.

Tree roots require space and air to absorb water and minerals. When grades are increased the feeder roots are no longer able to effectively function. Grade changes of only ten centimeters can kill the fine roots of some trees.

21 TREES ASSESSE 21 ON SITE TREES

4 ON SITE TREES PROPOSED FOR REMOVAL

7 ON SITE TREES PROPOSED FOR RETENTION



04/10/21 ISSUED FOR PERMIT 27/09/21 ISSUED FOR REVIEW

Assessment Done Sept. 24, 2021 By Reed Moss I.S.A. #PN-8960A

KD Planning

EXISTING TREE PROPOSED FOR

EXISTING TREE TO BE RETAINED

TREE PROTECTION FENCING

TREE PROTECTION
ZONE. 1.5m OFFSET

(o)

(0)

CEDAR COAST VAN HORNE

9800 VAN HORNE WAY, RICHMOND, BC

OVERALL TREE MANAGEMENT PLAN

SCALE	NTS
	RM
CHECKED	JT
PROJECTNO	210569-L

T1

Sustainability Strategy

As one of the largest industrial builders in the Lower Mainland, Orion Construction and our team of consultants are familiar with the City of Richmond's goal of sustainable development. We strive to incorporate as many sustainable initiatives in our projects as possible within the limitations of applicability and feasibility. Orion Construction has created our own approach to sustainability which is consistent with and complements the City's own goals. As project designs are finalized in the coming months, the project team will pay close attention to City of Richmond feedback and looks forward to working with staff on creating an exemplary industrial development.

1. Building design features include:

- The buildings' simple massing design and unit configurations not only allow for efficient commercial uses but also enhances thermal performance and building system performance*
- Limited window-to-wall ratio (WMR) to reduce solar heat gain*
- Enhanced thermal performance of the building envelope by utilizing variation in colour, materials, and pattern in lieu of complex massing and architectural features*
- Construct exterior envelope walls as fully insulated sandwich panel design to increase energy efficiency. Anticipated r-value of 11.69
- Incorporate extensive Low-E glazing in office areas to maximise building efficiency
- Maximise solar reflectivity on walls through the use of a high albedo paint, accounting for up to 70 percent of vertical building surfaces on a typical project
- Selecting materials that have long-life and low maintenance properties to extend the lifespan of the building and reduce future obsolescence of building elements
- The roofing system will utilise a 12lb per square foot ballast. This assembly has been found to provide a solution exceeding the performance of a high-SRI roof (such as TPO) for solar reflectance

2. Energy sustainability features include:

- Both buildings will be designed as solar ready to allow for future installations by tenants. This includes ensuring the building structure can withstand anticipated panel array loads
- Use of water efficient plumbing fixtures*
- Demonstrate through an energy model a minimum 10 percent saving on energy cost budget from ASHRAE 90.1 baseline
- Design all outdoor lighting as high efficiency LED to maximise building efficiency
- Base building electrical will support tenant installation of high efficiency LED interior lighting and mechanical systems
- Building commissioning activities will ensure base building mechanical and electrical systems are functioning efficiently

3. Transport sustainability features:

- Efficient parking and bay design reduces the amount of vehicle idling and driving on site
- Provide 100% of units with an Electric Vehicle rough-in. This translates to approximately 88 stalls being EV ready, which is nearly 80% of the required parking spaces. This exceeds the City's requirements by 8:1 and future proofs the site against growing EV use. The rough-ins may support the charging of light-duty vehicles
- Meet or exceed bicycle parking requirements and provide bike parking throughout. The project creates visible connections to the surrounding cycling network to promote commuting and visits by bicycle
- Include exterior electrical outlets near select bike parking locations to promote charging of e-bikes (locations TBD as building designs are finalized)

• The development is located within walking distance to bus stops and the Bridgeport SkyTrain and contains a pedestrian-only entrance beautified by public art, thus promoting commuting and visits by transit and by foot

4. Landscaping and natural considerations include:

- Design for reduced water usage through selecting drought resistant species and minimizing use of sod*
- Select endemic flora and ensure alien or invasive species are not installed
- Maximised canopy cover in car parking areas through selected tree species
- Significant amenity areas throughout the project, promoting activation of spaces and eliminating potential dead-zones
- Limiting the removal of trees and planting new trees will improve Richmond's urban tree canopy

5. Waste control and reduction features include:

- Use local and recycled building materials, including concrete and steel for foundations, slabs and exterior walls*
- Provide facilities to encourage three stream waste separation and recycling*
- Garbage and waste materials will be stored in weatherproof and animal resistant containers. These containers will be visually screened from adjacent sites and current public throughfares*
- Create a waste disposal and recycling services plan to guide demolition operations. This plan will promote diversion of waste from landfills and include measures for recycling and reuse of demolished materials
- When necessary, dispose of any contaminated soils in a fully compliant and environmentally respectful manner
- * Policies from the City's DP Guidelines for Green Buildings and Sustainable Infrastructure



Development Permit Considerations

Development Applications Department 6911 No. 3 Road, Richmond, BC V6Y 2C1

Address: 9800 Van Horne Way File No.: DP 21-943565

Prior to approval of the Development Permit, the developer is required to complete the following:

- 1. Receipt of a Letter of Credit for landscaping in the amount of \$126,108.30 plus taxes, inclusive of a 10% contingency cost (as per the landscape cost estimate provided by KD Planning & Design Ltd., on June 14, 2022).
- 2. Submission of a Contract entered into between the applicant and a Certified Arborist for supervision of any on-site works conducted within the tree protection zone of the trees to be retained. The Contract should include the scope of work to be undertaken, including: the proposed number of site monitoring inspections, and a provision for the Arborist to submit a post-construction assessment report to the City for review.
- 3. Submission of a Tree Survival Security to the City in the amount of \$70,000.00 for seven (7) trees to be retained (Trees Tag #936, 937, 949, 5059, A, B, C). A legal agreement is to accompany the Tree Survival Security to set the terms for its use and release.
- 4. Installation of appropriate tree protection fencing around all trees to be retained as part of the development prior to any construction activities, including building demolition, occurring on-site.
- 5. City acceptance of the developer's offer to make a voluntary contribution towards the City's Public Art Fund, the terms of which shall include the following:
 - a) The value of the developer's voluntary public art contribution shall be based on the Council-approved rates for residential and non-residential uses and the maximum buildable floor area permitted under the subject site's proposed zoning, excluding floor area associated with affordable housing and market rental, as indicated in the table below.

Building Type	Rate	Proposed Floor Area (after exemptions)	Minimum Voluntary Cash Contribution
Industrial	\$0.29 (2023 rate)	243,783 SF	\$70,697.07

- b) In the event that the contribution is not provided within one year of the application receiving endorsement from the Development Permit Panel (i.e. the Development Permit Panel meeting date), the contribution rate (as indicated in the table in item a) above) shall be increased annually thereafter based on the Statistics Canada Consumer Prince Index (All Items) Vancouver yearly quarter-to-quarter change, where the change is positive.
- c) Prior to Development Permit approval by Council, the developer shall submit a Public Art Plan, for the subject site, to the satisfaction of the Director, Arts Culture and Heritage Services. The Public Art Plan shall be:
 - (1) Prepared by an appropriate professional.
 - (2) Based on a contribution value of at least the total amount indicated in the table in item a) above.
 - (3) Consistent with applicable City policies and objectives (for example, the Richmond Public Art Program, City Centre Public Art Plan, Capstan Public Art Plan and other relevant supplementary public art and heritage planning that may be undertaken by the City), as determined to the satisfaction of the Director of Development and Director, Arts, Culture, and Heritage Services.
 - (4) Presented for review(s) by the Public Art Advisory Committee and endorsement by Council, as required by the Director, Arts, Culture, and Heritage Services.
 - NOTE: For contributions with a cumulative budget over \$250,000, the Public Art Plan is presented for Council approval prior to Building Permit issuance.

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- (5) Implemented by the developer, as required by legal agreement(s) registered on Title to prior to Development Permit approval.
- d) Prior to Development Permit approval, the developer shall enter into a legal agreement for the provision of on-site Public Art, the terms of which shall include:
 - (1) "No building" shall be permitted on the subject site, restricting Building Permit issuance for any building on the lot, in whole or in part (excluding parking), until the developer, to the City's satisfaction:
 - (a) Enters into additional legal agreement(s), if any, required to facilitate the implementation of the City approved Public Art Plan, which may require that, prior to entering into any such additional agreement(s), a Detailed Public Art Plan is submitted by the developer for the subject site and/or an artist is engaged, to the satisfaction of the City (as generally set out in the legal agreement entered into and the Public Art Plan submitted prior to Development Permit approval).
 - (b) Submits a Letter of Credit or cash security or cash contribution (as determined in the sole discretion of the City) to secure the developer's implementation of the Public Art Plan, the collective value of which shall be at least \$70,697.07, including \$3,534.9 as a cash contribution equal to 5% of the total amount indicated in the table in item a) above (\$70,697.07) and a Public Art security Letter of Credit in the amount of (\$70,697.07) being the total amount identified in item a) above.
 - (2) "No occupancy" shall be permitted on the subject site, restricting final Building Permit* inspection granting occupancy of the building (exclusive of parking), in whole or in part, on the subject site until:
 - (a) The developer, at the developer's sole cost and expense, commissions one or more artists to conceive, create, manufacture, design, and oversee or provide input about the manufacturing of the public artwork, and causes the public artwork to be installed on City owned site, if expressly permitted by the City in writing and pre-approved by Council, or within a statutory right-of-way on the subject site (which right-of-way shall be to the satisfaction of the City and secured by one or more legal agreements for rights of public passage, public art, and related purposes including maintenance, in accordance with the City-approved Public Art Plan and, as applicable, Detailed Public Art Plan).
 - (b) The developer, at the developer's sole cost and expense and within 30 days after the date on which the applicable public art is installed in accordance with the City-approved Public Art Plan, executes and delivers to the City a transfer of all of the developer's rights, title, and interest in the public artwork to the City if on City property or to the subsequent strata corporation if on the subject site (including transfer of joint world-wide copyright) or as otherwise determined to be satisfactory by the City Solicitor and Director, Arts, Culture, and Heritage Services.
 - NOTE: It is the understanding of the City that the artist's title and interest in the public artwork will be transferred to the developer upon acceptance of the artwork based on an agreement solely between the developer and the artist and that these interests will in turn be transferred to the City, subject to approval by Council to accept the transfer of ownership of the artwork.
 - (c) The developer, at the developer's sole cost and expense, has submitted a final report to the City, to be submitted promptly after completion of the installation of the public art in accordance with the Cityapproved Public Art Plan, which report, to the satisfaction of the Director of Development and Director, Arts, Culture, and Heritage Services, includes:
 - (i) Information regarding the siting of the public art, a brief biography of the artist(s), a statement from the artist(s) on the public art, and other such details as the Director of Development and Director, Arts, Culture, and Heritage Services may require;
 - (ii) A statutory declaration, satisfactory to the City Solicitor, confirming that the developer's financial obligation(s) to the artist(s) have been fully satisfied;
 - (iii) The maintenance plan for the public art prepared by the artist(s):
 - (iv) Digital records (e.g., photographic images) of the public art, to the satisfaction of the Director of Development and Director, Arts, Culture, and Heritage Services.
- e) As an alternative to the provision of public art on-site, the developer may offer to make a voluntary cash contribution in lieu; provided that the value of such voluntary public art contribution shall be at least the total amount indicated in the table in item a) above. In this case, the requirements of c) through e) above will not apply.

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- 6. Registration of an Aircraft Noise covenant on Title (Areas 1A and 2).
- 7. Discharge previous Flood Covenant BE227221 from title.
- 8. Registration of a Flood Indemnity Covenant on Title (2.9 m GSC).
- 9. Registration of a legal agreement to secure the building energy performance target achieving a minimum 10% saving on energy cost budget from ASHRAE 90.1 baseline standards and requiring outdoor lighting installation of high efficiency LED to aid building energy efficiency. The legal agreement would also include requirements that both buildings would be designed to allow for the installation of future solar photovoltaic roof mounted panels by individual tenants in the future.
- 10. Registration of an Electric Vehicle (EV) Charging Infrastructure covenant on title, securing the owner's commitment to voluntarily provide, install, and maintain five (5) EV charging equipment (including charging stations) for a total of ten (10) vehicles to be used by tenants and others, on-site. More specifically, the five (5) required charging stations must be designed to the specifications of Level 2 EV standards and ability to provide charging to ten (10) vehicles simultaneously. The covenant shall also require that, in addition to the ten (10) stalls noted above, a minimum of 88 parking stalls (being a min. of 1 stall per unit) shall feature conduits and pre-ducting in order to support future EV charging installation.
- 11. Confirmation of compliance and approval from the Ministry of Environment with regard to site investigation for any contaminants due to previous activities on the property prior to the issuance of the Development Permit.
- 12. Registration of a legal agreement on Title identifying that the property is located in an industrial area and that land use of the property must be consistent with the Zoning Bylaw, and requiring that the owner provide an acknowledgement of the same in all purchase and sale agreements.
- 13. Granting a Statutory Right-of-Way of 6.94 m width along the south portion of the site in order to secure the area for the future road connecting Van Horne Way to No. 4 Road.

Prior to Building Permit Issuance, the developer must complete the following requirements:

1. Enter into a Servicing Agreement for the design and construction of site servicing and off-site works and frontage improvements. A Letter of Credit or cash security for the value of the Service Agreement works, as determined by the City, will be required as part of entering into the Servicing Agreement. Works include, but may not be limited to:

Water Works:

- a) Using the OCP Model, there is 756.0 L/s of water available at a 20 psi residual at the River Dr frontage. Based on your proposed development, your site requires a minimum fire flow of 250 L/s.
- b) The developer is required to:
 - i) Subject to funding approval, the City will pay for the replacement of the existing water main located along the Van Horne frontage. The existing water main is to be replaced by the developer with approximately 250m of new water main located on the roadway.
- c) At Developer's cost, the Developer is required to:
 - i) Install a new 100mm water service connection extending from the newly proposed new water main replacement, complete with water meter and water meter box as per standard city specifications.
 - ii) Submit Fire Underwriter Survey (FUS) or International Organization for Standardization (ISO) fire flow calculations to confirm development has adequate fire flow for onsite fire protection. Calculations must be signed and sealed by a Professional Engineer and be based on Building Permit Stage building designs.
 - iii) Provide a right-of-way for the water meter. Minimum right-of-way dimensions to be the size of the meter box (from the City of Richmond supplementary specifications) + any appurtenances (for example, the bypass on W2o-SD) + 0.5 m on all sides. Exact right-of-way dimensions to be finalized during the building permit process (or via the servicing agreement process, if one is required).

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- d) At Developer's cost, the City will:
 - i) Complete all tie-ins for the proposed works to existing City infrastructure.

Storm Sewer Works:

- a) At Developer's cost, the Developer is required to:
 - i) Decommission the existing storm sewer main along the Van Horne Way frontage and replace it with a new 600mm minimum storm sewer main or OCP size as per the City's specifications. The new storm sewer shall be installed within the roadway.
 - ii) Install a new 150mm storm service connection extending from the newly proposed storm main replacement, complete with IC.
 - b) At Developer's cost, the City will:
 - i) Complete all tie-ins for the proposed works to existing City infrastructure.

Sanitary Sewer Works:

- a) The Developer is required to:
 - i) Subject to funding approval, the City will pay for the replacement of the existing sanitary main located along the Van Horne frontage. Sanitary sewer main is to be replaced by the developer with approximately 220m of new sanitary sewer main located on the roadway. The new sanitary main diameter will be confirmed through the servicing agreement design. The proposed sanitary main replacement is required to extend from the south west face of the existing manhole located at the North West corner of the lot until where it will tie into a manhole located along the south PL of 9800 Van Horne Way. The new sanitary main will require a junction and the installation of an additional manhole to accommodate the realignment of the main unto the roadway.
 - ii) Subject to funding approval, the City will pay for the installation of a new manhole located along the south PL of 9800 Van Horne Way where the newly proposed sanitary main will tie into the existing sanitary main.
- b) At Developer's cost, the Developer is required to:
 - i) Not start onsite excavation or foundation construction until completion of rear-yard sanitary works by City crews.
 - ii) Install a new 150mm sanitary service connection extending from the newly proposed sanitary main replacement, complete with IC
- c) At Developer's cost, the City will:
 - i) Complete all tie-ins for the proposed works to existing City infrastructure.

Street Lighting:

- a) At Developer's cost, the Developer is required to:
 - i) Review street lighting levels along all road and lane frontages, and upgrade as required.

Frontage Improvements and General Items:

- a) At Developer's cost, the Developer is required to:
 - i) Complete other frontage improvements as per Transportation requirements.

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- ii) Underground utility upgrade works that are required beyond the development frontages (subject to the model run results) shall be eligible for a latecomer agreement.
- iii) Van Horne frontage: Widen existing grass boulevard (varying width +- 1.0m) to 1.5 m and provide street trees. Existing 3.0 m wide multi-use pathway will need to be shifted into the site to maintain the existing width.
- iv) River Drive frontage: install a new curb and gutter along the existing road edge and enhance the existing boulevard to include trees/grass, while maintaining existing multi-use pathway.
- v) Coordinate with BC Hydro, Telus and other private communication service providers:
 - (1) To pre-duct for future hydro, telephone and cable utilities along all road frontages.
 - (2) Before relocating/modifying any of the existing power poles and/or guy wires within the property frontages.
 - (3) To underground overhead service lines.
- vi) Locate/relocate all above ground utility cabinets and kiosks required to service the proposed development and proposed undergrounding works, and all above ground utility cabinets and kiosks located along the development's frontages, within the developments site (see list below for examples). A functional plan showing conceptual locations for such infrastructure shall be included in the development design review process. Please coordinate with the respective private utility companies and the project's lighting and traffic signal consultants to confirm the requirements (e.g., statutory right-of-way dimensions) and the locations for the aboveground structures. If a private utility company does not require an aboveground structure, that company shall confirm this via a letter to be submitted to the City. The following are examples of statutory right-of-ways that shall be shown on the architectural plans/functional plan, the servicing agreement drawings, and registered prior to SA design approval:
 - BC Hydro PMT 4.0 x 5.0 m
 - BC Hydro LPT $3.5 \times 3.5 \text{ m}$
 - Street light kiosk $-1.5 \times 1.5 \text{ m}$
 - Traffic signal kiosk 2.0 x 1.5 m
 - Traffic signal UPS 1.0 x 1.0 m
 - Shaw cable $kiosk 1.0 \times 1.0 \text{ m}$
 - Telus FDH cabinet 1.1 x 1.0 m
- vii) Provide, prior to start of site preparation works or within the first servicing agreement submission, whichever comes first, a preload plan and geotechnical assessment of preload, dewatering, and soil preparation impacts on the existing utilities fronting the development site and provide mitigation recommendations.
- viii) If required, submit a proposed strategy at the building permit stage for managing excavation de-watering. Note that the City's preference is to manage groundwater onsite or by removing and disposing at an appropriate facility. If this is not feasible due to volume of de-watering, the Developer will be required to apply to Metro Vancouver for a permit to discharge into the sanitary sewer system. If the sanitary sewer does not have adequate capacity to receive the volume of groundwater, the Developer will be required to enter into a de-watering agreement with the City wherein the developer will be required to treat the groundwater before discharging it to the City's storm sewer system.

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- ix) Provide a video inspection report of the existing utilities along the road frontages prior to start of site preparation works or within the first servicing agreement submission, whichever comes first. A follow-up video inspection, complete with a civil engineer's signed and sealed recommendation letter, is required after site preparation works are complete (i.e. pre-load removal, completion of dewatering, etc.) to assess the condition of the existing utilities and provide recommendations to retain, replace, or repair. Any utilities damaged by the pre-load, de-watering, or other ground preparation shall be replaced or repaired at the Developer's cost.
- x) Conduct pre- and post-preload elevation surveys of all surrounding roads, utilities, and structures. Any damage, nuisance, or other impact to be repaired at the developer's cost. The post-preload elevation survey shall be incorporated within the servicing agreement design.
- xi) Monitor the settlement at the adjacent utilities and structures during pre-loading, dewatering, and soil preparation works per a geotechnical engineer's recommendations, and report the settlement amounts to the City for approval.
- i) Not encroach into City rights-of-ways with any proposed trees, retaining walls, or other non-removable structures. Retaining walls proposed to encroach into rights-of-ways must be reviewed by the City's Engineering Department.
- ii) Coordinate the servicing agreement design for this development with the servicing agreement(s) for the adjacent development(s), both existing and in-stream. The developer's civil engineer shall submit a signed and sealed letter with each servicing agreement submission confirming that they have coordinated with civil engineer(s) of the adjacent project(s) and that the servicing agreement designs are consistent. The City will not accept the 1st submission if it is not coordinated with the adjacent developments. The coordination letter should cover, but not be limited to, the following:
 - (a) Corridors for City utilities (existing and proposed water, storm sewer, sanitary and DEU) and private utilities.
 - (b) Pipe sizes, material and slopes.
 - (c) Location of manholes and fire hydrants.
 - (d) Road grades, high points and low points.
 - (e) Alignment of ultimate and interim curbs.
 - (f) Proposed street lights design.
- iii) Enter into, if required, additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering, including, but not limited to, site investigation, testing, monitoring, site preparation, dewatering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.
- 2. At the Owner's cost via City Work Order*, design and construct/install utility connections and frontage improvements, works include, but not be limited to water works and storm sewer works.
- 3. The owner is required to review street lighting levels along all road frontages and upgrade as required.
- 4. Submission of a Construction Parking and Traffic Management Plan to the Transportation Department. Management Plan shall include location for parking for services, deliveries, workers, loading, application for any lane closures, and proper construction traffic controls as per Traffic Control Manual for works on Roadways (by Ministry of Transportation) and MMCD Traffic Regulation Section 01570.

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- 5. Obtain a Building Permit (BP) for any construction hoarding. If construction hoarding is required to temporarily occupy a public street, the air space above a public street, or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For additional information, contact the Building Approvals Department at 604-276-4285.
- 6. Additional width along Van Horne Way for frontage improvement to be secured through an SRW.

Note:

- * This requires a separate application.
- Where the Director of Development deems appropriate, the preceding agreements are to be drawn not only as personal covenants of the property owner but also as covenants pursuant to Section 219 of the Land Title Act.
 - All agreements to be registered in the Land Title Office shall have priority over all such liens, charges and encumbrances as is considered advisable by the Director of Development. All agreements to be registered in the Land Title Office shall, unless the Director of Development determines otherwise, be fully registered in the Land Title Office prior to enactment of the appropriate bylaw.
 - The preceding agreements shall provide security to the City including indemnities, warranties, equitable/rent charges, letters of credit and withholding permits, as deemed necessary or advisable by the Director of Development. All agreements shall be in a form and content satisfactory to the Director of Development.
- Additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering may be required including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.

[Signed copy on file]		
Signed	Date	



Development Permit

No. DP 21-943565

To the Holder:

1321791 BC Ltd.

Property Address:

9800 Van Horne Way

Address:

Orion Construction

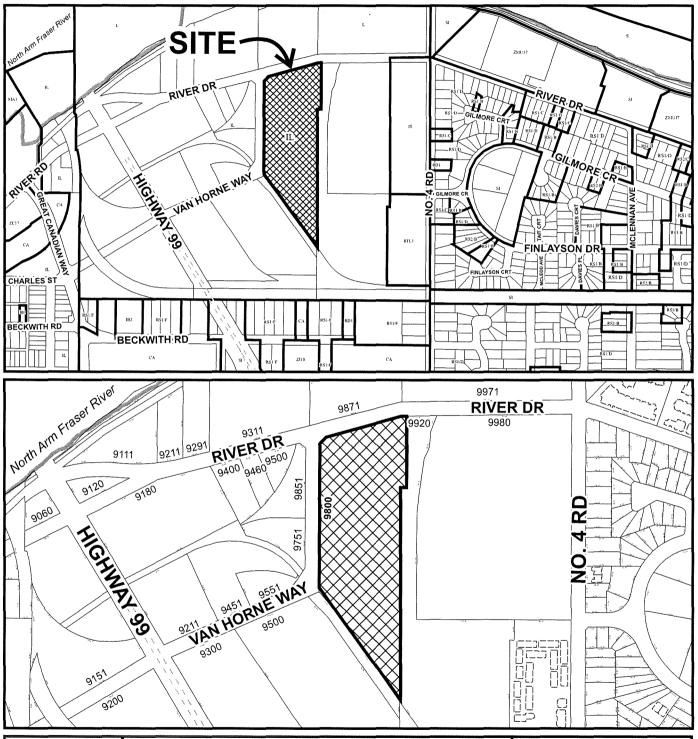
Unit 104 - 3950 191 Street Surrey, BC V6C 0A6

- 1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.
- 2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
- 3. Subject to Section 692 of the Local Government Act, R.S.B.C; buildings, and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans #1 -29 attached hereto.
- 4. Sanitary systems, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
- 5. As a condition of the issuance of this Permit, the City is holding the security in the amount of \$126,108.30 plus applicable taxes to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
- 6. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.
- 7. The land described herein shall be developed generally in accordance with the terms and conditions and provisions of this Permit and any plans and specifications attached to this Permit which shall form a part hereof.

This Permit is not a Building Permit.

AUTHORIZING RESO DAY OF	DLUTION NO. , .	ISSUED BY THE COUNCIL THI		
DELIVERED THIS	DAY OF	,		
MAYOR				







DP 21-943565 SCHEDULE "A"

Original Date: 11/09/21

Revision Date: 04/06/21

Note: Dimensions are in METRES

PROPOSED INDUSTRIAL BUILDINGS FOR:



VAN HORNE

9800 VAN HORNE WAY, RICHMOND, BC

LOT A SEC 22 BLK 5N RG 6N PL LMP1595 LOT A, BLOCK 5N, PLAN LMP1595, SECTION 22, RANGE 6N , NEW MESTMINSTER LAND DISTRICT, EXCEPT PLAN BCP220 19















BUILDING B TYPICAL UNIT ENTRANCE AND LOADING

CONSULTANTS LIST:

ARCHITECT CHIP BARRETT ARCHITECT

#40-15055 20 AVE, SURREY BC, V4A 9X8 TEL: 604-536-1272 CONTACT: CHIP BARRETT

DEVELOPER ORION CONSTRUCTION

104 - 3950 191 STREET, SURREY BC, V3Z 0Y6 TEL: 604-362-2994 CONTACT: BRADEN SMITH

CIVIL ENGINEER CENTRAS ENGINEERING LTD.

#216-2630 CROYDON DRIVE SURREY, BC V35 6T3 TEL: 604-782-6921 CONTACT: STEVE O'CONNELL

GEOTECHINCAL ENGINEER GEOPACIFIC CONSULTANTS LTD.

1779 W. 15TH AVENUE VANCOUVER, B.C., V6P 6P2 TEL: 604-439-0922 CONTACT: MATT AKENHEAD

LANDSCAPE ARCHITECT KD PLANNING & DESIGN LTD

#400-34071 GLADYS AVENUE ABBOTSFORD, BC V25 2E8 TEL: 604-853-8631 FAX: 604-853-1580 CONTACT: JESSICA THIESSEN

KD PLANNING & DESIGN LTD #400-340T7 GLADYS AVENUE

ARBORIST

#400-34071 GLADYS AVENUE ABBOTSFORD, BC V25 2E8 TEL: 604-853-8831 FAX 604-853-1580 CONTACT: ALEX GROENEWOLD



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	JUN, 10, 22	RE4SSUED FOR DP	
Ī	OCT,04,21	ISSUED FOR DP	
D.	DATE	DESCRIPTION	
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BUILDING B FLOOR PLANS
BUILDING B TYP OFFICE PLANS
BUILDING B ELEVATIONS

BUILDING B ENLARGED ELEVATIONS

ARCHITECTURAL DRAWING LIST

COVER SHEET

SEAL JOB NO. DESIGNED

DESIGNED

CEDAR COAST VAN HORNE

ROJECT-CRAWING NUMBER

A-0.0

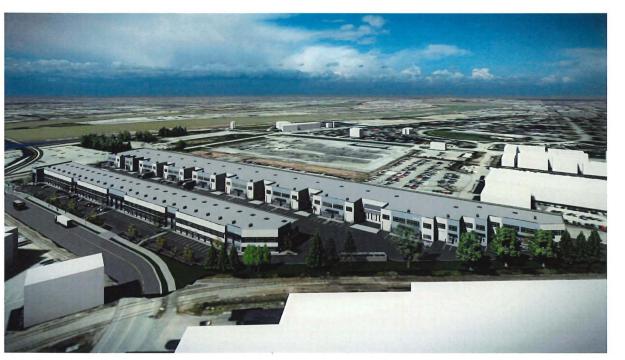






BIRD'S EYE VIEW OF SOUTH OF SITE

A-O,1 SCALE: NTS



2 BIRD'S EYE OF SOUTHWEST OF SITE

A-O.I SCALE: NT.5



4 WEST VIEW OF SITE FROM SKYTRAIN
SCALE NTS



D.FORCE

CEDAR COAST VAN HORNE

EAL	JOB NO. DRAWN 21-029 VCF
	DESIGNED
	CHECKED
	R.D.
	PLOT DATE MAR. 13.2

A-0.1

CONTEXT PLAN LEGEND

INDUSTRIAL USE

COMMERCIAL USE

CITY INFRASTRUCTURE

SCHOOL

GREEN SPACE WALKING TRAIL

BIKING PATH

EXISTING ROAD NETWORK

FUTURE ROAD





IN ASSOCIATION WITH D.FORCE DESIGN I







NORTH-WEST CORNER OF SITE FROM STREET

SCALE NTS



6 NORTH-EAST CORNER OF SITE FROM STREET





SOUTH-WEST CORNER OF SITE FROM STREET

SOALE NTS



INTERSECTION OF VAN HORNE WAY & RIVER DRIVE CONNECTION TO NORTH ARM BRIDGE BIKEWAY

SCALE NTS

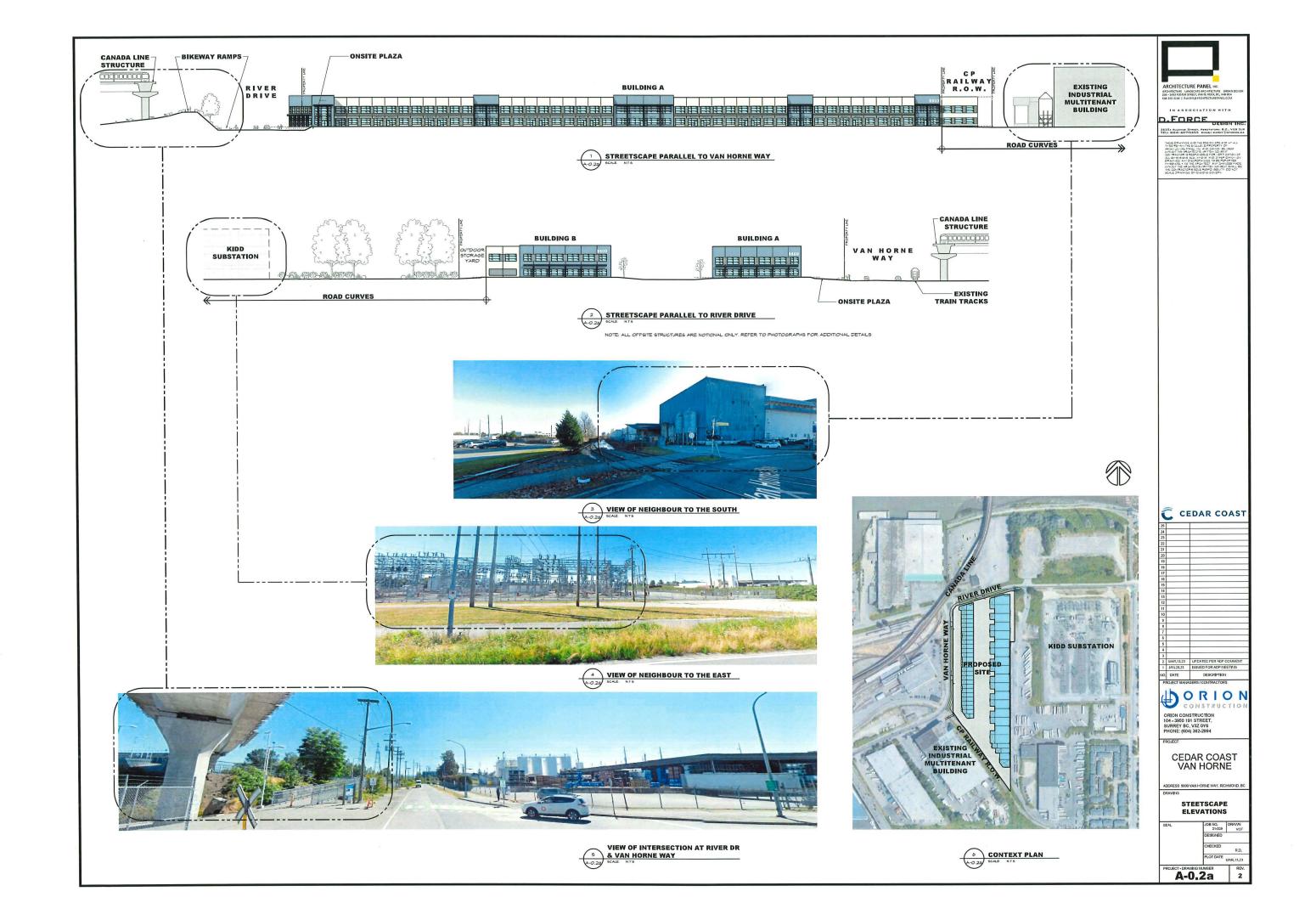
CEDAR COAST			
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5			
4	MAR,13,23	UPDATED PER ACP COMMENT	
3	DEC.15.22	UPDATED FER CITY COMMENT	
2	JUN,10,22	RE-ISSUED FOR DP	
1	OCT,04,21	ISSUED FOR DP	
NO.	DATE	DESCRIPTION	

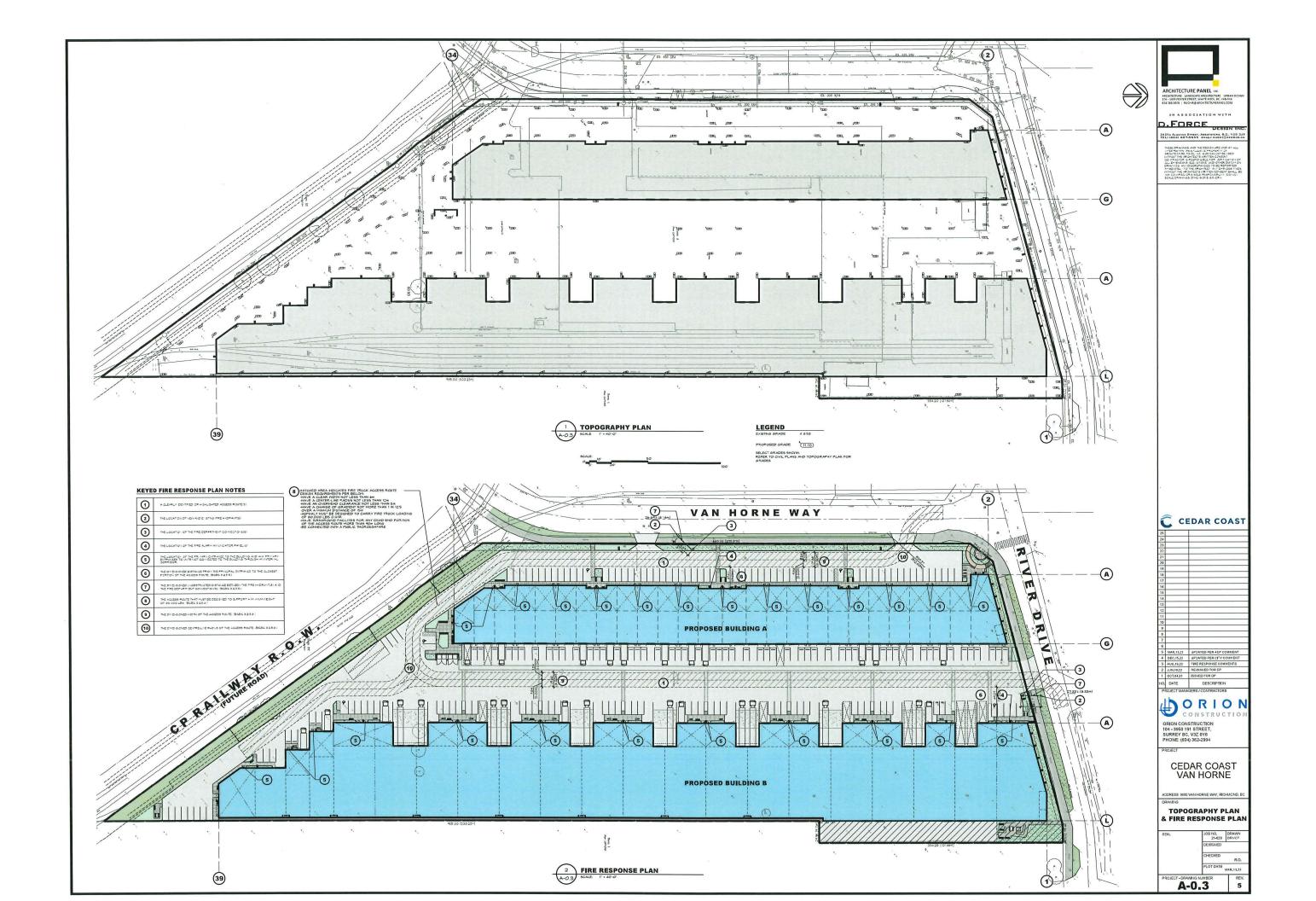
ORION CONSTRUCTION ORION CONSTRUCTION 104 - 3950 191 STREET, SURREY BC, V3Z 0Y6 PHONE: (604) 362-2994

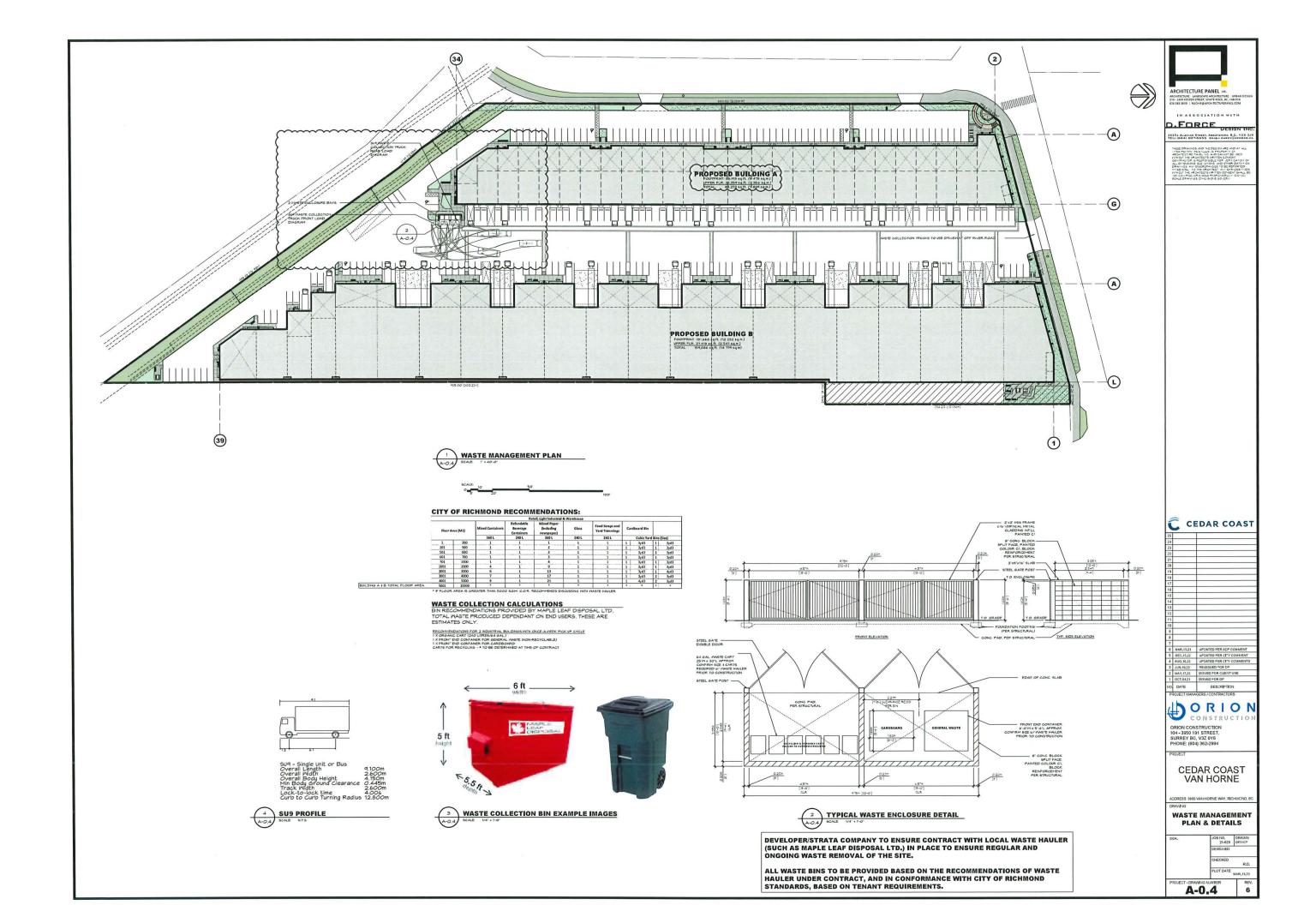
CEDAR COAST VAN HORNE

CONTEXT

A-0.2









21

MARCH

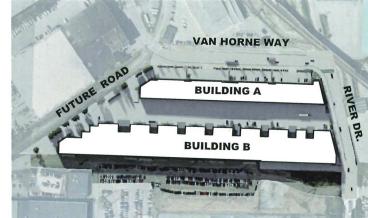
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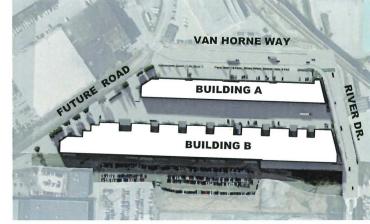
21

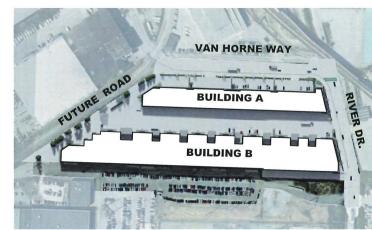
SEPTEMBER

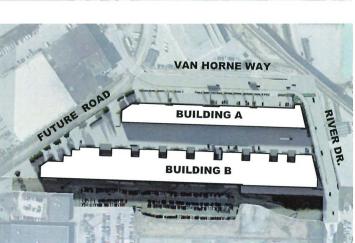


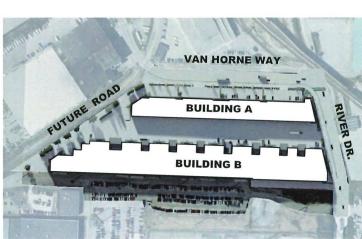
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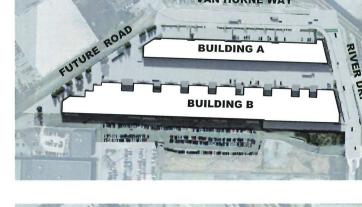




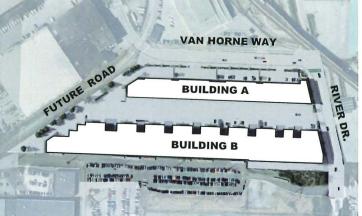












12:00 noon

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BUILDING B

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VAN HORNE WAY

BUILDING A

BUILDING B

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10:00) a

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Printed to the second second

VAN HORNE WAY

BUILDING A

BUILDING B

VAN HORNE WAY

BUILDING A

BUILDING B

VAN HORNE WAY

BUILDING A

BUILDING B

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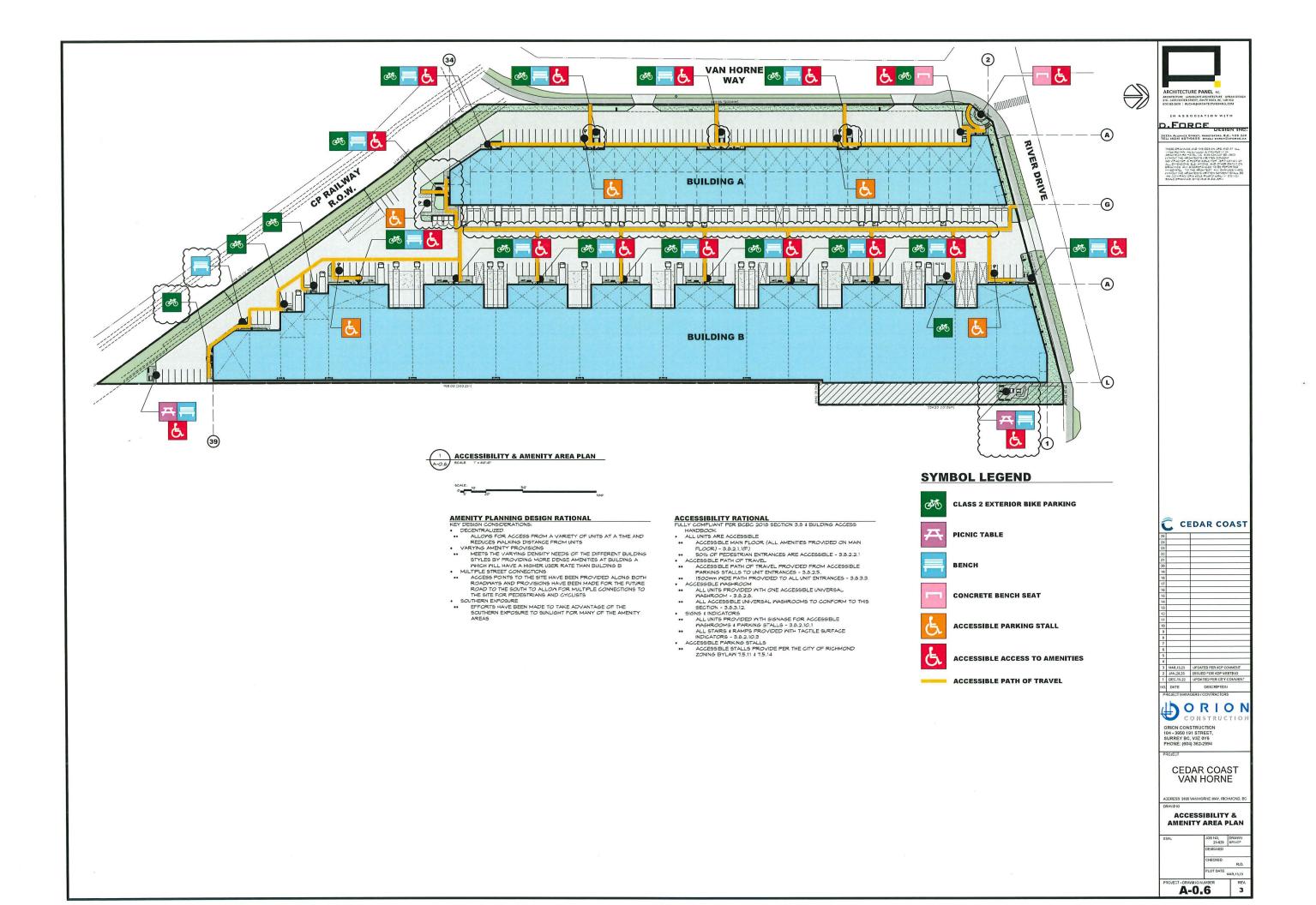
CEDAR COAST VAN HORNE SHADOW STUDY A-0.5

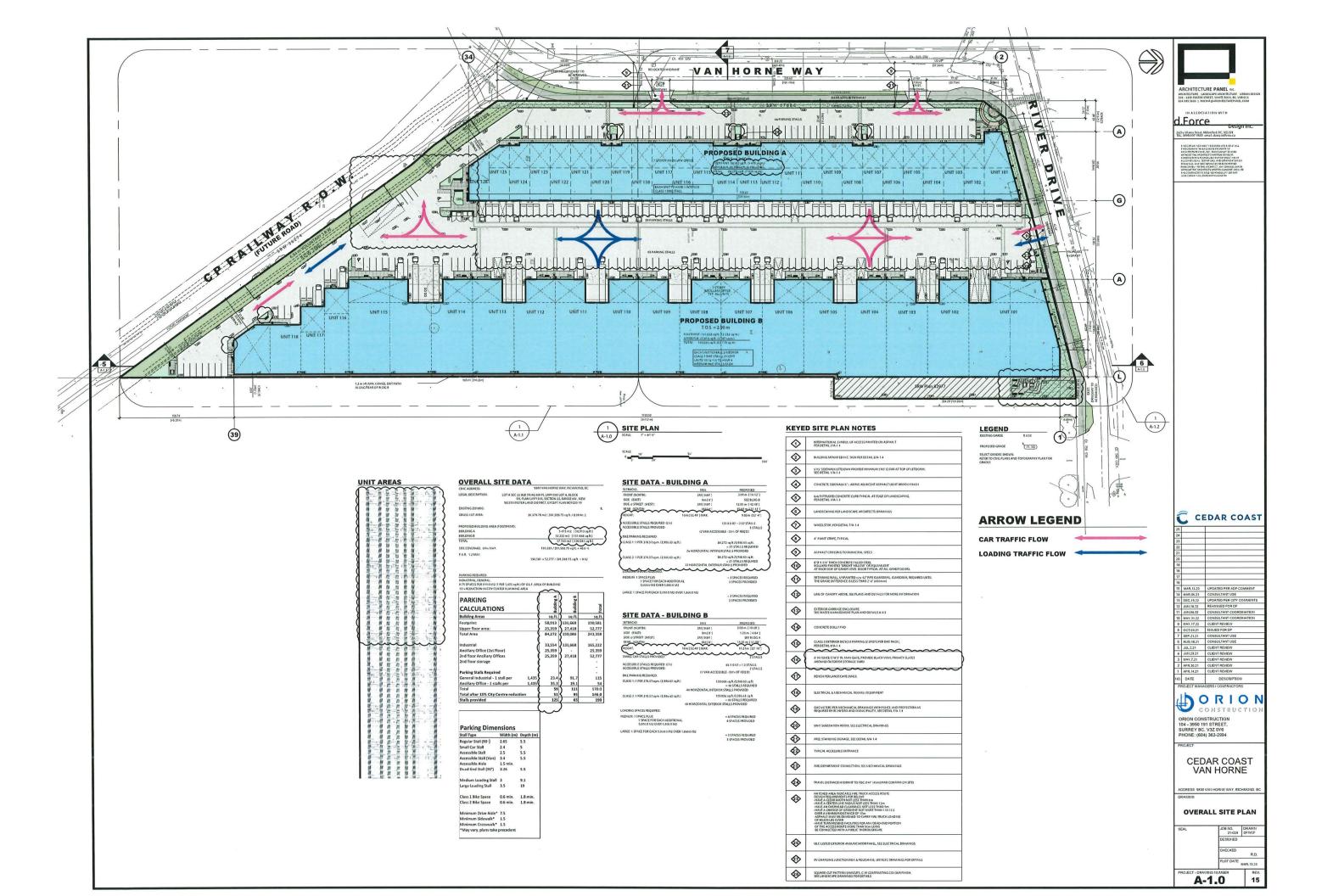
JUN,10,22 RE4SSUED FOR DP
 DATE DESCRIPTION
 PROJECT MANAGERS / CONTRACTORS

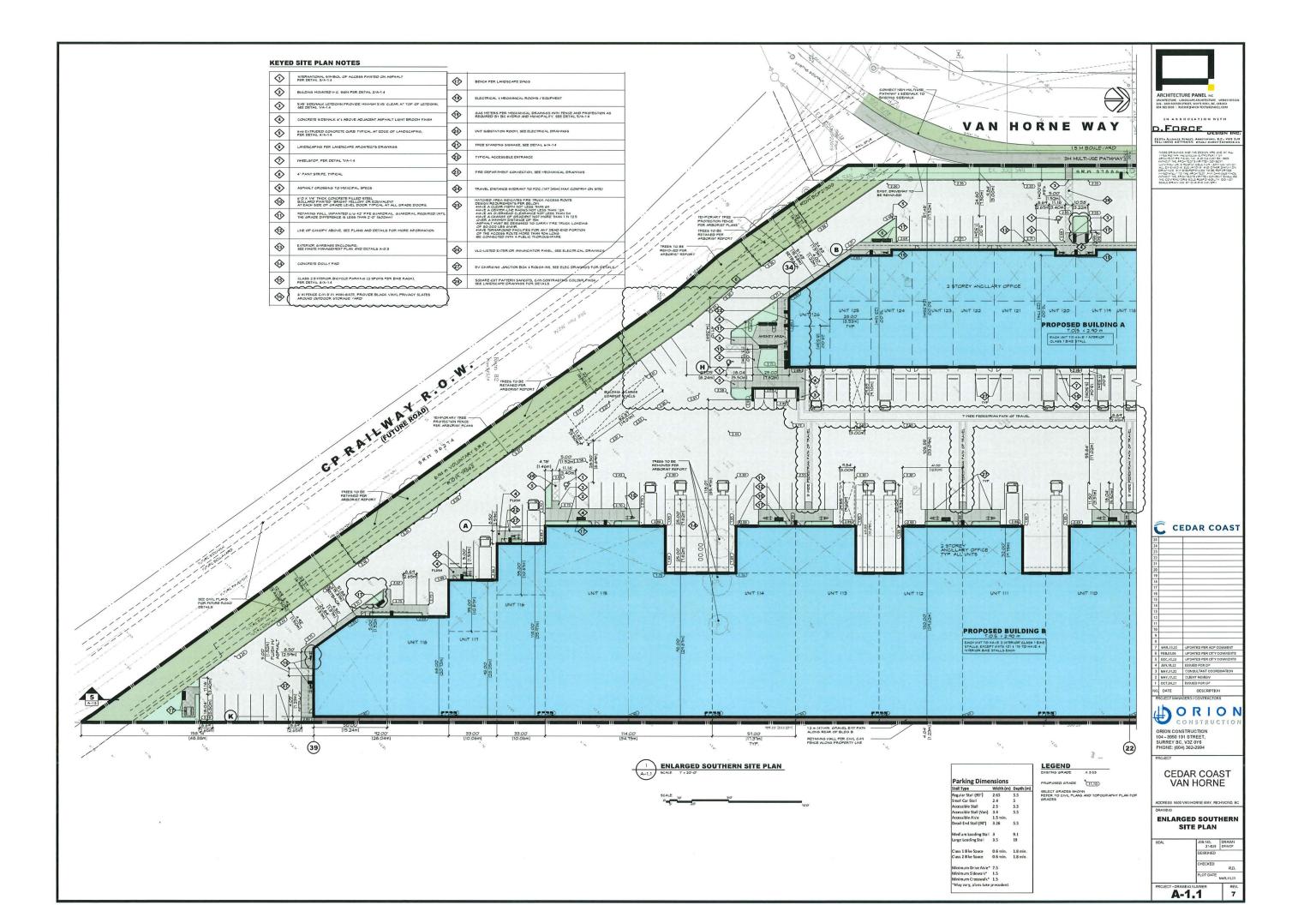
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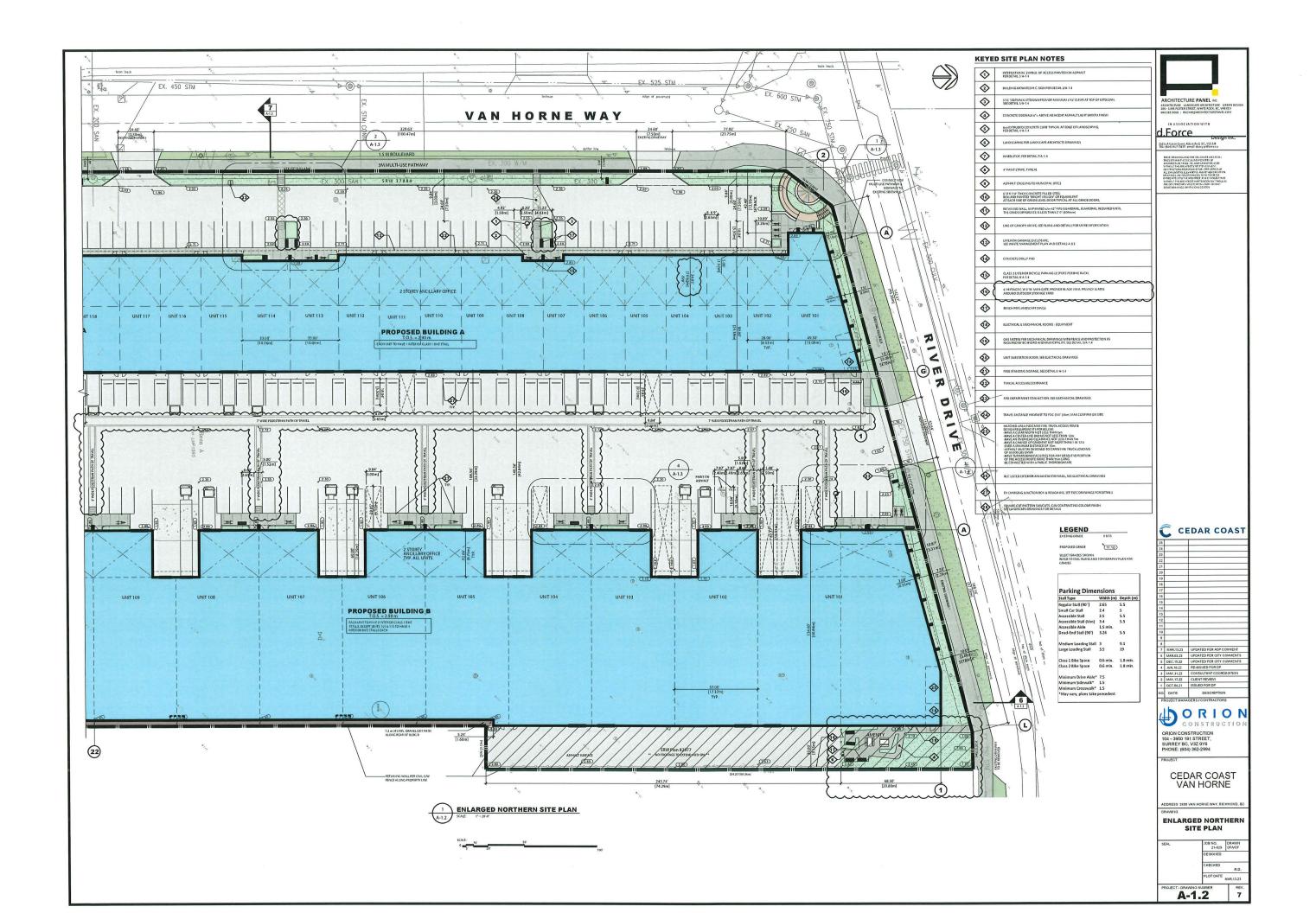
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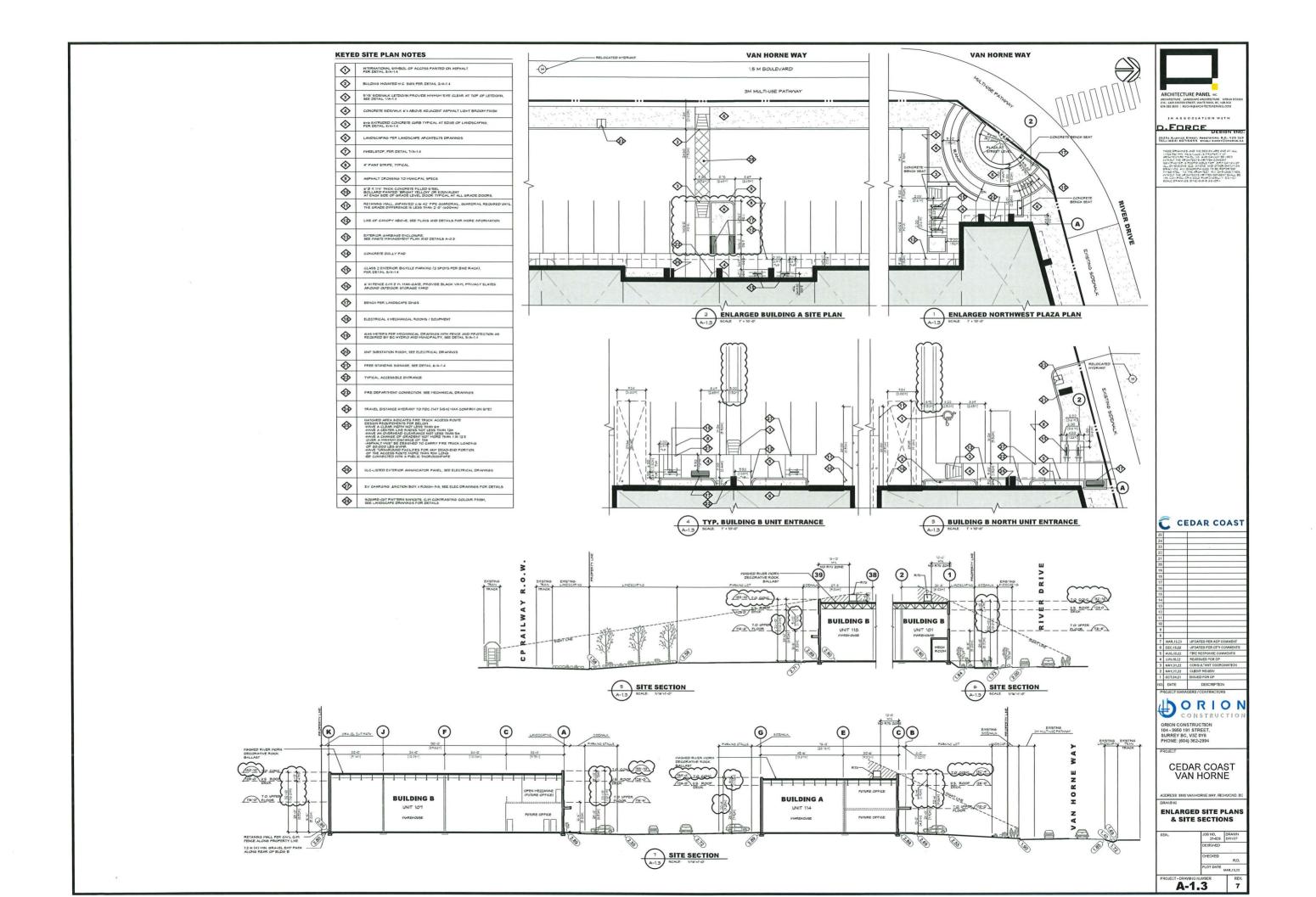
CEDAR COAST

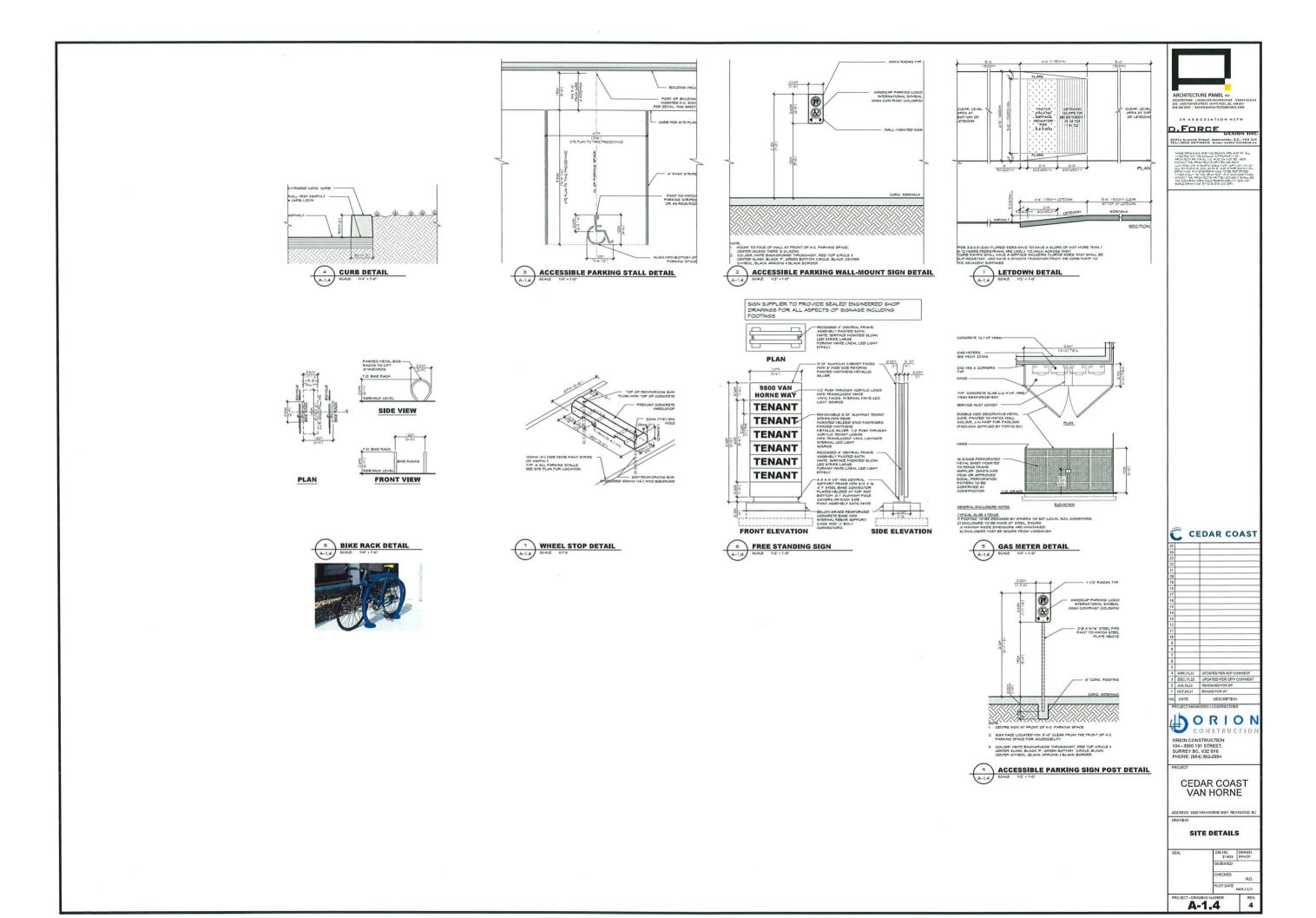


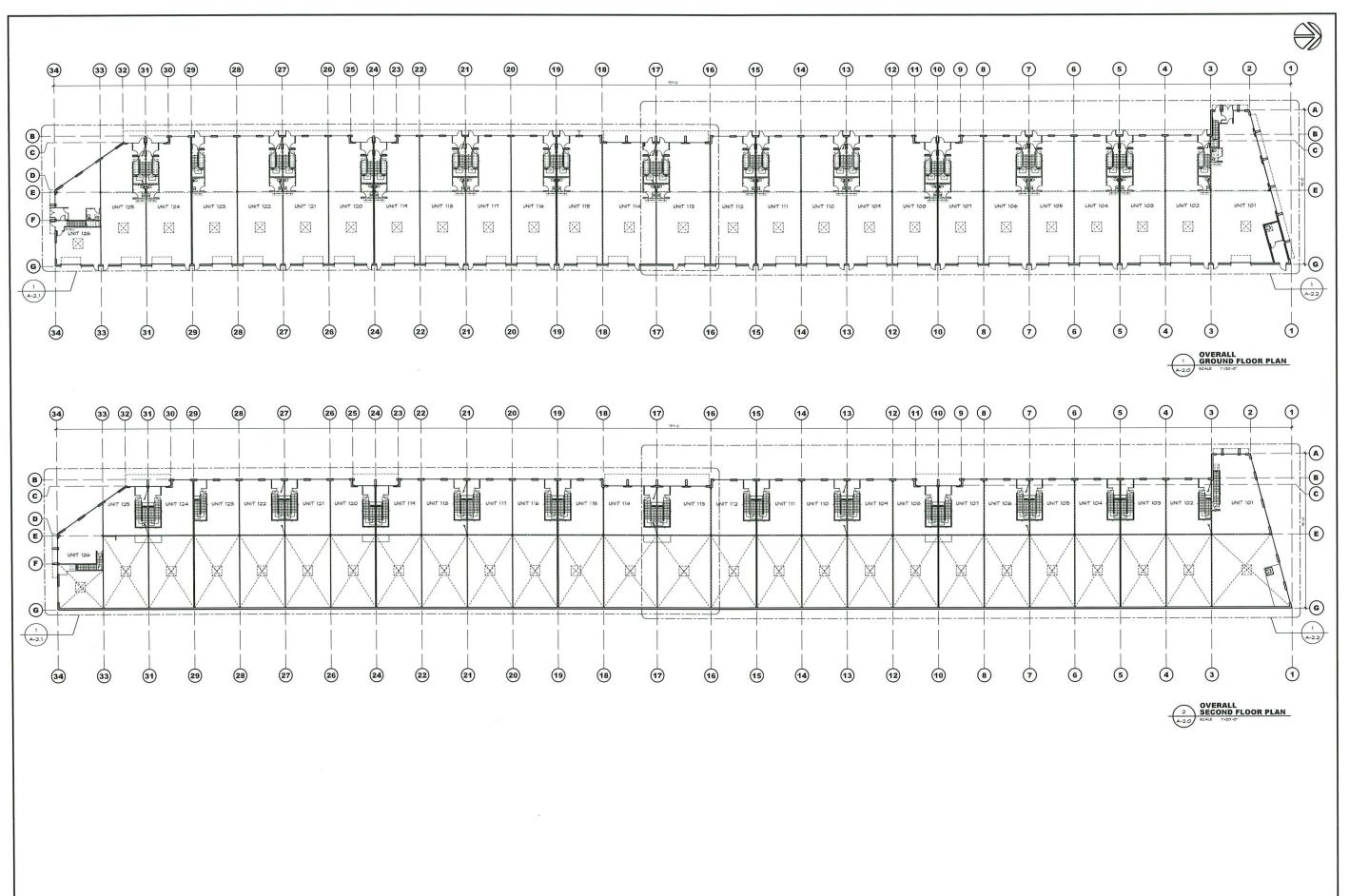








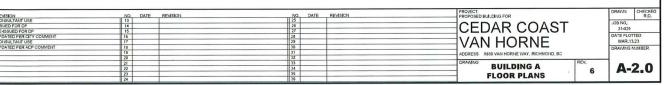


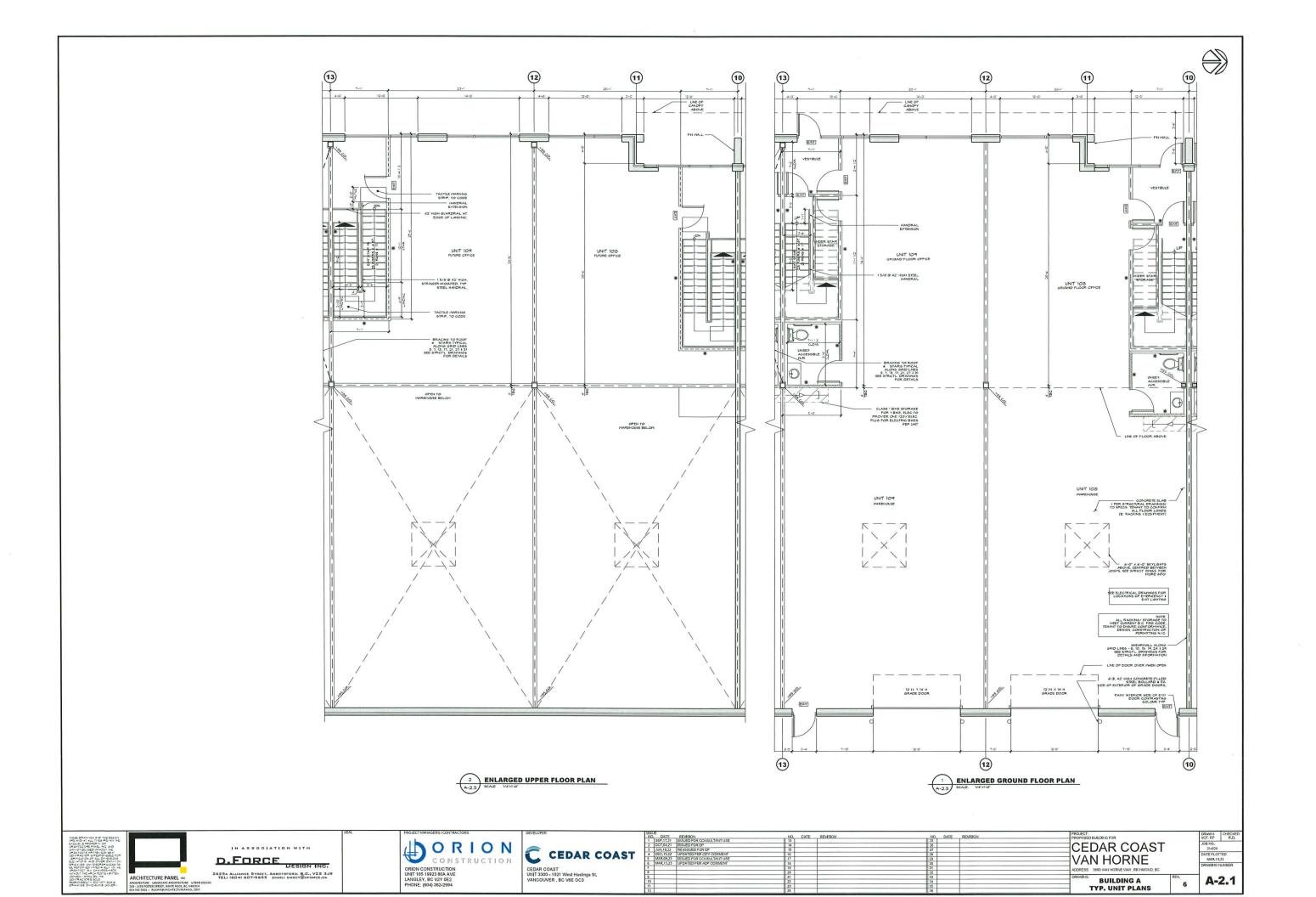




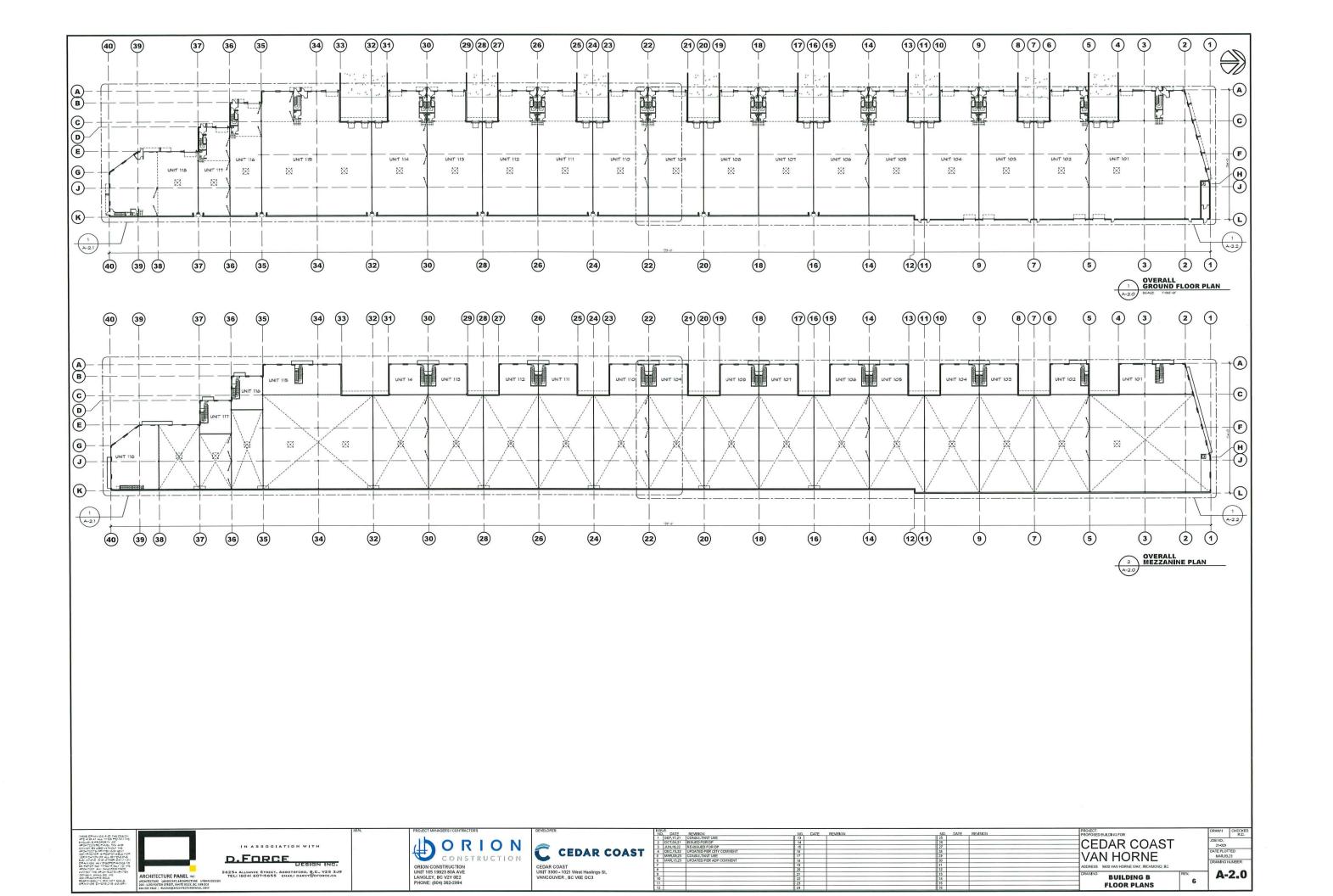


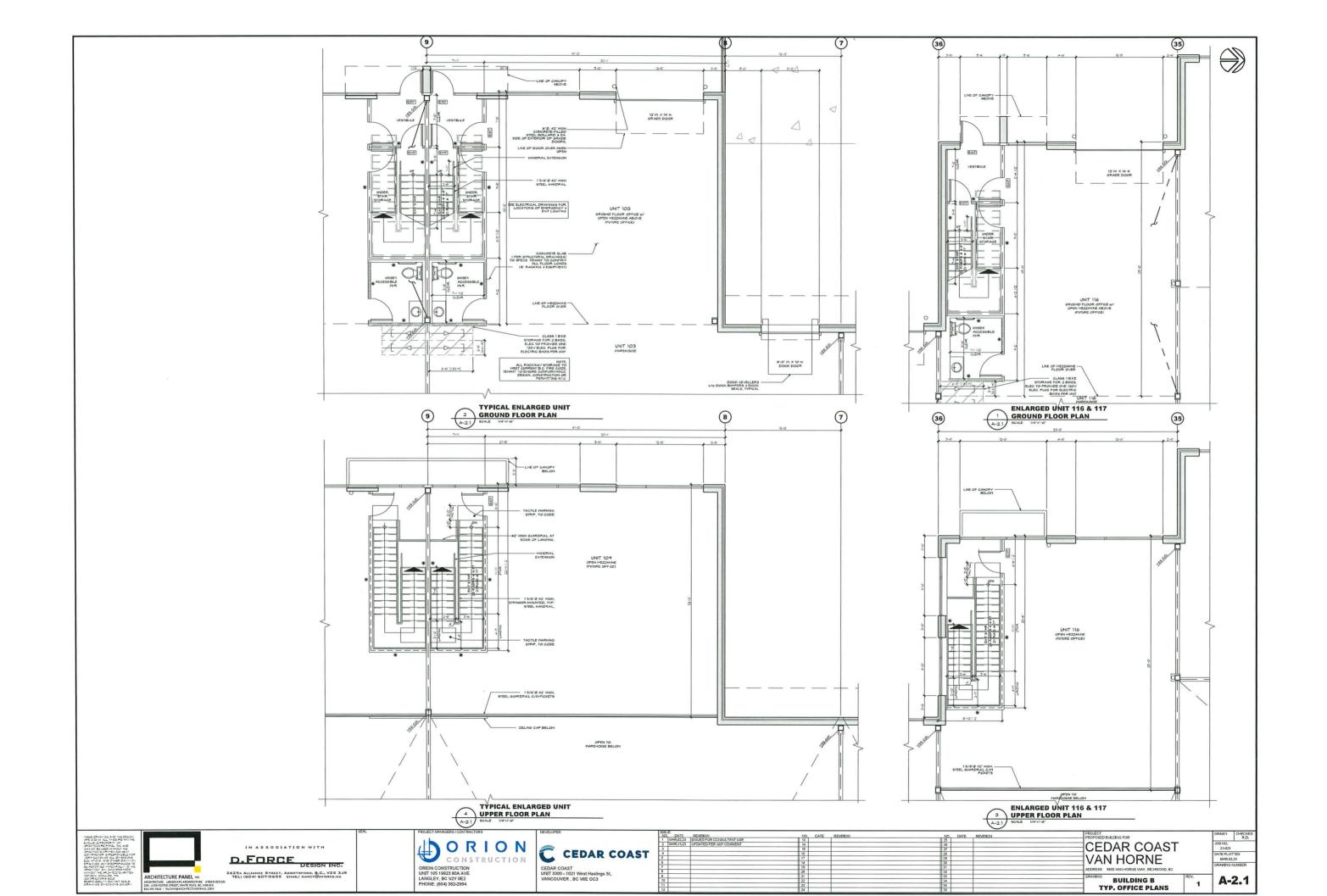


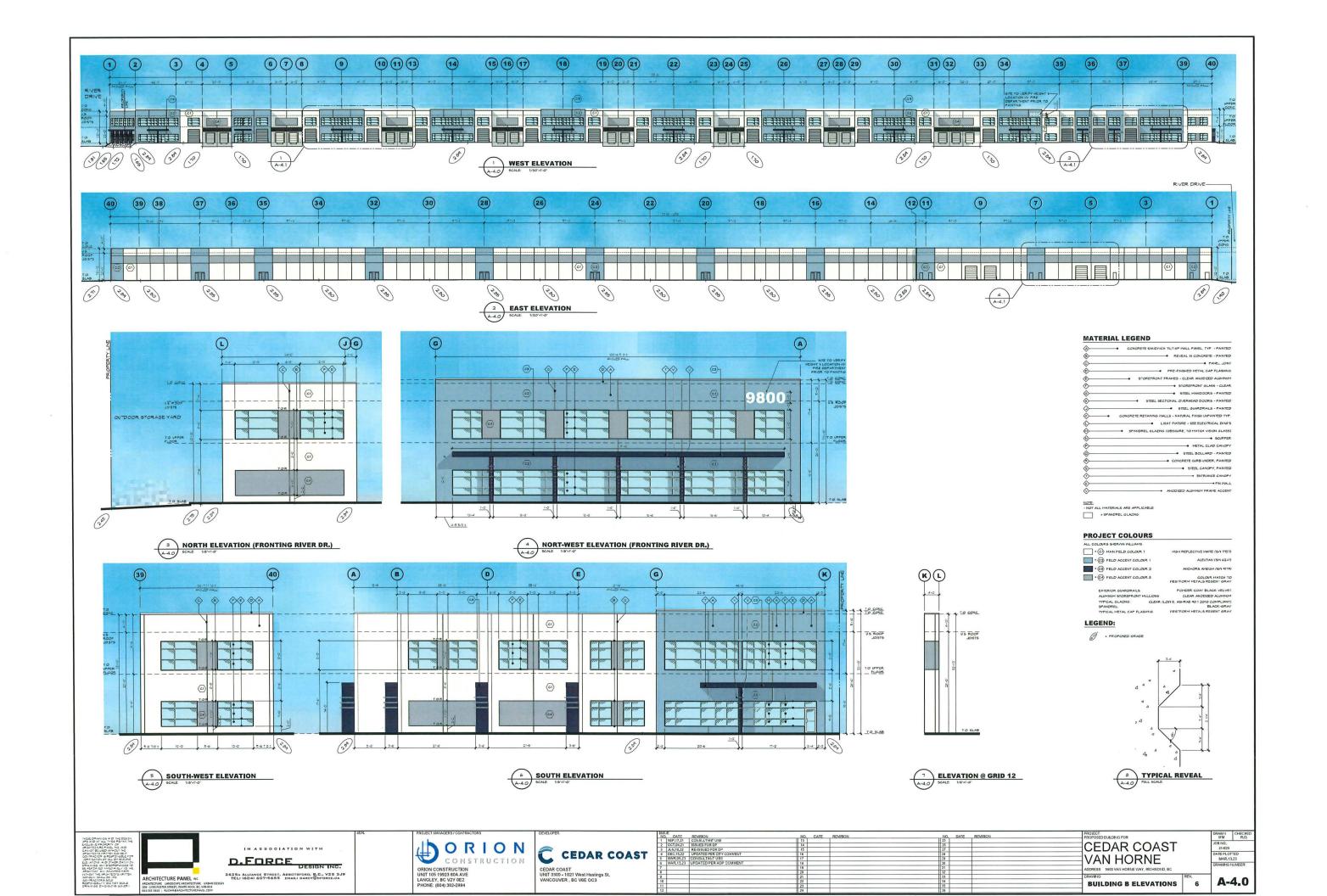


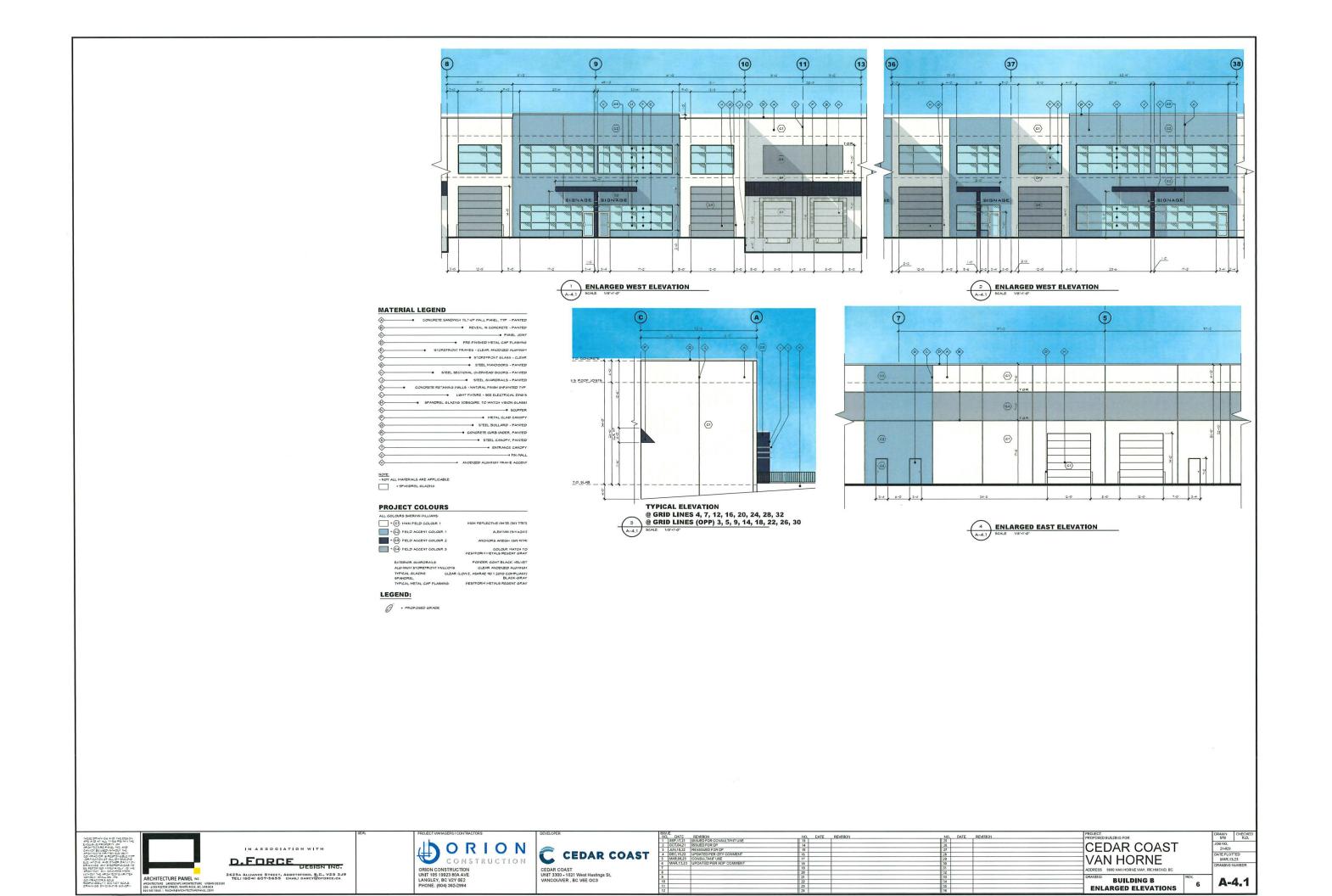














Report to Development Permit Panel

To: Development Permit Panel

Date: April 20, 2023

From: Wayne Craig

Re:

File: DP 22-019430

Director, Development

Application by Talvinder Jagde for a Development Permit at

10151 Ainsworth Crescent

Staff Recommendation

That a Development Permit be issued which would:

- 1. Permit the construction of a coach house at 10151 Ainsworth Crescent on a site zoned "Single Detached with Granny Flat or Coach House Edgemere (REI)";
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - a) increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m: and,
 - b) decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.

Wayne Craig

Director, Development

(604-247-4625)

WC:le

Att. 5

Staff Report

Origin

Talvinder Jagde, authorized agent for the property owners (Jim Kirk, Prabherjot Saini, and Robyn Kirk), has applied to the City of Richmond for permission to develop a 58.3 m² (627.5 ft²) coach house at 10151 Ainsworth Crescent on a site zoned "Single Detached with Granny Flat or Coach House – Edgemere (RE1)". A copy of a location map is attached (Attachment 1). The site currently contains one single detached house, which is proposed to be demolished (Attachment 2).

Development Information

Please refer to the attached Development Application Data Sheet (Attachment 3) for a comparison of the proposed development data with the relevant Bylaw requirements.

Background

Development surrounding the subject site is as follows:

To the north: A single detached house on a lot zoned "Single Detached with Granny Flat or

Coach House - Edgemere (REI)".

To the south: A single detached house on a lot zoned "Single Detached with Granny Flat or

Coach House - Edgemere (REI)".

To the east: Across Ainsworth Crescent, a single detached house on a lot zoned "Single

Detached with Granny Flat or Coach House - Edgemere (RE1)".

To the west: Across the rear lane, a single detached house on a lot zoned "Single Detached

with Granny Flat or Coach House - Edgemere (RE1)".

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the design guidelines for coach houses in the Edgemere neighbourhood contained in the City's Official Community Plan (OCP), and complies with the "Single Detached with Granny Flat or Coach House Edgemere (RE1)" zone except the below noted variances.

Zoning Compliance/Variances

The applicant has requested to vary the provisions of Richmond Zoning Bylaw 8500 to:

- 1. Increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m.
- 2. Decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.

The applicant has requested the above variances in order to locate the coach house safely outside of the tree protection zone of a significant tree (Tree ID# os3 - Douglas Fir, DBH 110 cm) located on the neighbouring property to the south (see Tree Retention and Replacement Plan, Attachment 4). In order to ensure that the entirety of the proposed coach house and garage are located outside of the Tree Protection Zone, while also maintaining consistency with Coach House design guidelines, the applicant proposes to shift the coach house and garage to the north side of the property.

Staff supports the proposed variances as they provide for the retention of a significant tree (a 15 m tall Douglas fir with a diameter of 110 cm) which is in good condition. The City Arborist has reviewed the submitted Arborist Report and supports the efforts taken to shift the proposed coach house and garage as far to the north as possible, such that the development is located entirely outside of the Tree Protection Zone.

The proposed variances do not interfere with the overall design of the coach house which is generally consistent with the Development Permit guidelines. The applicant has also provided a shadow analysis (Attachment 5) that demonstrate that the variances to the setback requirements in the zone will not result in undue shadowing of the adjacent property to the north.

Analysis

Conditions of Adjacency

- The proposed coach house design relates to the proposed single detached housing form, character and scale of the surrounding neighbourhood.
- The proposed location of the coach house, which is set back between 1.5 m and 3.0 m from the rear lane, provides an adequate buffer to the adjacent lot to the west.
- The majority of the floor space in the coach house building is proposed on the ground floor (60 per cent, i.e., entry, powder room, living, kitchen/dining), and the portion of the floor space located in the upper half-storey of the coach house is located in the middle of the overall building.
- There are no windows proposed on the north or south side elevations to address concerns of
 overlook into the neighbouring properties. There are windows proposed on the west and east
 elevations of the coach house to provide passive surveillance of the lane and maximize light
 penetration.

Urban Design and Site Planning

- Consistent with the OCP guidelines for coach houses in the Edgemere neighbourhood, the proposed primary pedestrian entry to the coach house is from the rear lane, and secondary pedestrian access to the coach house is proposed via a pathway from Ainsworth Crescent along the south side of the property.
- The west elevation of the coach house that faces the lane has been designed as the primary facade, with a main window off the living area at grade, wood posts with stone bases on either side of the covered front porch, as well as exterior wall and landscape lighting to enhance visibility and appearance of the lane as a public space.

- Consistent with zoning, private outdoor space for the exclusive benefit of the coach house is proposed in the form of a screened and landscaped yard off the south side of the coach house. Access to the private outdoor space is from the front door of the coach house.
- A single shared garbage and recycling enclosure is proposed for the site for use by the residents of the property. The enclosure, which is adequately sized to contain the required number of containers for the single detached house and coach house, is set back 1.5 m from the rear property line and is screened by wood fencing, gates, and a variety of soft landscaping.
- The proposed site plan provides on-site parking in compliance with the Zoning Bylaw, including: two parking spaces for the principal dwelling in the garage off the lane and one unenclosed and permeable parking space for the coach house with access from the lane.
- Prior to development permit issuance, the applicant shall provide a letter of undertaking or contract with a certified arborist for the supervision of all works to be completed within the Tree Protection zone of trees #os3 and os4, including landscaping and footing preparation and installation.

Architectural Form and Character

- The proposed exterior building materials and colours of the coach house are consistent with the building styles in the neighbourhood, and include horizontal white Hardie-plank siding with black trim and grey stone accents.
- The primary facade of the coach house facing the lane is proposed to be visually broken into smaller components through the inclusion of a covered front porch, and an upper covered deck.

Landscape Design and Open Space Design

- Tree retention and removal was assessed as part of this application. One significant 110 cm Douglas fir tree (Tree ID # os3) and a 23 cm magnolia tree (Tree ID# os4) which are in proximity to the proposed coach house and located on the neighbouring property to the south are required to be retained and protected. Tree protection fencing must be installed and inspected prior to issuance of a Demolition Permit for the existing single detached house or the Building Permit for the coach house. The proposed Tree Retention and Removal Plan is included in Attachment 4.
- There are no on-site trees in the area of the proposed coach house and garage. Future assessment of on-site tree retention and removal associated with any new single-family dwelling to be constructed on the property will be assessed and reviewed at the time of the building permit application for the single-family dwelling.
- The applicant proposes to plant three new trees on-site adjacent to the proposed coach house and garage.
- The area surrounding the coach house main entrance, adjacent to the rear lane, is proposed to be treated with a combination of shrubs and flowering plants to enhance the appearance of the lane.
- The private open space for the coach house is proposed at grade, in the rear yard to the south of the coach house, and is defined through the planting of shrubs.

The proposed open space is adequately sized and shaped to comply with the "Single Detached with Granny Flat or Coach House Edgemere (RE1)" zone.

DP 22-019430

• Prior to DP issuance, the applicant is required to submit a Landscaping Security for the proposed works, based on 100 per cent of the cost estimate provided by the Landscape Architect (including a 10 per cent contingency, soft and hard landscaping, fencing and installation).

Crime Prevention Through Environmental Design

- Consistent with the design guidelines for coach houses in the OCP, the proposed coach house
 design enables natural surveillance by locating windows and living areas overlooking the
 lane.
- Similarly, the applicant proposes exterior lighting on the eaves facing the lane, as well as porch lighting at the coach house's main entry to maintain visibility and safety. The lighting will be designed to limit spillover onto adjacent lots.

Energy Efficiency

• The applicant has indicated that they intend to achieve Step 3 of the BC Energy Step Code, and will provide a Low Carbon Energy System, consistent with the City's requirements.

Conclusions

The applicant is seeking permission to build a coach house in the rear yard of the subject property at 10151 Ainsworth Crescent in the Edgemere neighbourhood.

The proposal aims to respect the existing character of the immediate surrounding neighbourhood which consists of single detached housing, by conforming to the design guidelines for coach houses in the OCP. The proposed construction of the coach house complies with the requirements of the "Single Detached with Granny Flat or Coach House - Edgemere (REI)" zone, with the exception of the two variances requested to allow for the retention of a significant tree.

On this basis, staff recommends support for this Development Permit application.

Laurel Eyton Planning Technician

(604-276-4262)

LE:js

Att.

1: Location Map

2: Survey Plan

3: Development Application Data Sheet

4: Tree Retention and Replacement Plan

5: Shadow Study

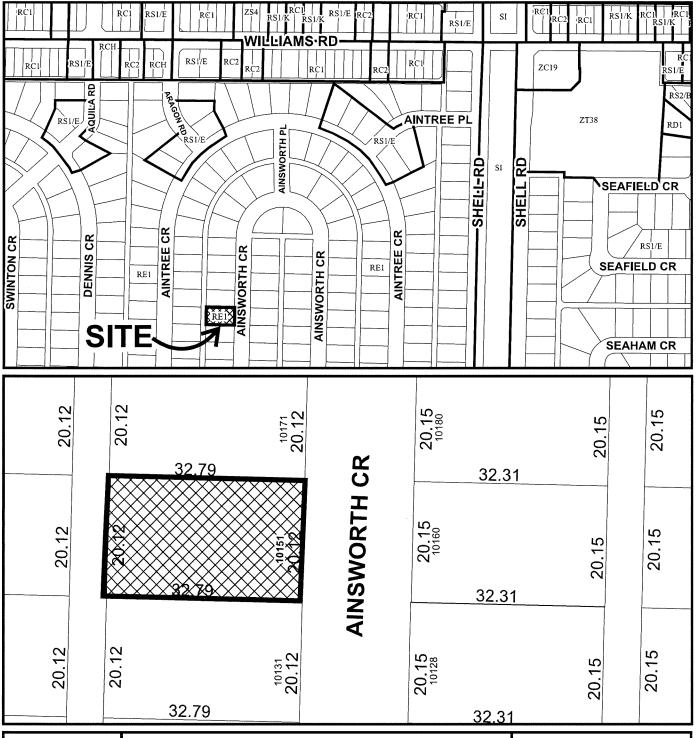
The following are to be met prior to forwarding this application to Council for approval:

- Registration of a flood indemnity covenant on Title.
- Receipt of a Letter-of-Credit for landscaping in the amount of 100 per cent of the costs of soft and hard landscaping, installation, and a 10 per cent contingency.
- Receipt of a Letter of Undertaking from Arborist indicating that they will be on site to supervise all works within the Tree Protection Zone, and within 1.0 m of the Tree Protection Zone. The contract/letter of undertaking must include the scope of work to be supervised, any protection measures required to ensure tree protection, as well as a provision for the Arborist to submit a post-construction impact assessment report to the City for review.

Prior to future Building Permit issuance, the developer is required to complete the following:

- Demonstrate compliance with the Development Permit plans.
- Demonstrate compliance with the applicable level of the BC Energy Step Code.
- Install tree protection fencing to City standard around the driplines of any protected trees in accordance with the City's Tree Protection Information Bulletin (TREE-03), which must remain in place until construction and landscaping is completed.
- The applicant is required to obtain a Building Permit for any construction hoarding associated with the proposed development. If construction hoarding is required to temporarily occupy a street, or any part thereof, or occupy the air space above a street or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For further information on the Building Permit, please contact Building Approvals Department at 604-276-4285.
- Submission of a construction traffic and parking management plan to the satisfaction of the City's Transportation Department (http://www.richmond.ca/services/ttp/special.htm).







DP 22-019430

Original Date: 08/23/22

Revision Date:

Note: Dimensions are in METRES



Development Permit

No. DP 22-019430

To the Holder:

Talvinder Jagde

Property Address:

10151 Ainsworth Crescent

Address:

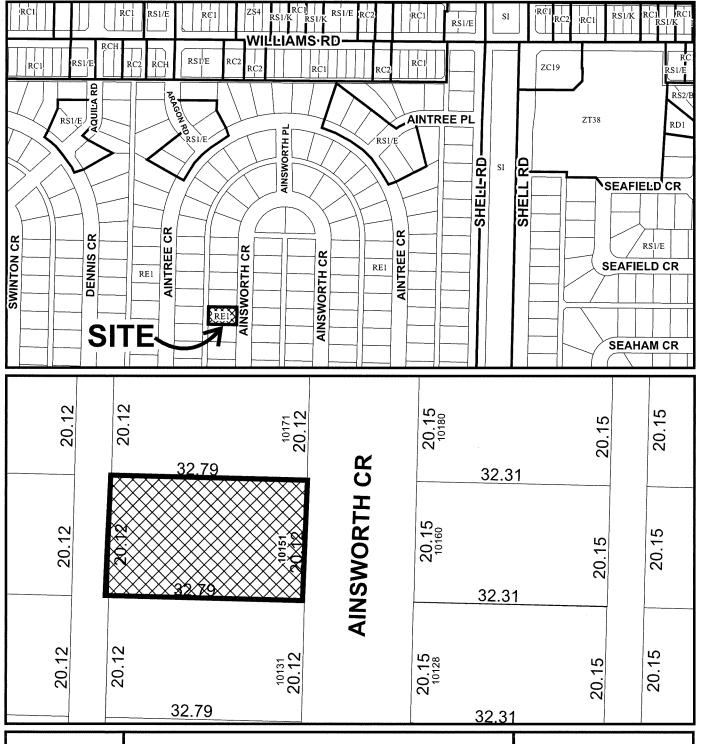
6391 No. 5 Road, Richmond BC

- 1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.
- 2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
- 3. The "Richmond Zoning Bylaw 8500" is hereby varied to:
 - a) increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m; and,
 - b) decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.
- 4. Subject to Section 692 of the Local Government Act, R.S.B.C.: buildings and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans #1 to #8 attached hereto.
- 5. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
- 6. As a condition of the issuance of this Permit, the City is holding the security based on 100% of the cost estimate for the proposed works around the coach house (including 10% contingency, soft and hard landscaping, fencing and installation) to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
- 7. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.

Development Permit No. DP 22-019430

To tl	he Holder:	Talvinder Jagde	
Prop	perty Address:	10151 Ainsworth Cre	scent
Add	ress:	6391 No. 5 Road, Ric	hmond BC
(conditions and provisions	s of this Permit and any	nerally in accordance with the terms and plans and specifications attached to this
	Permit which shall form a This Permit is not a Build	•	
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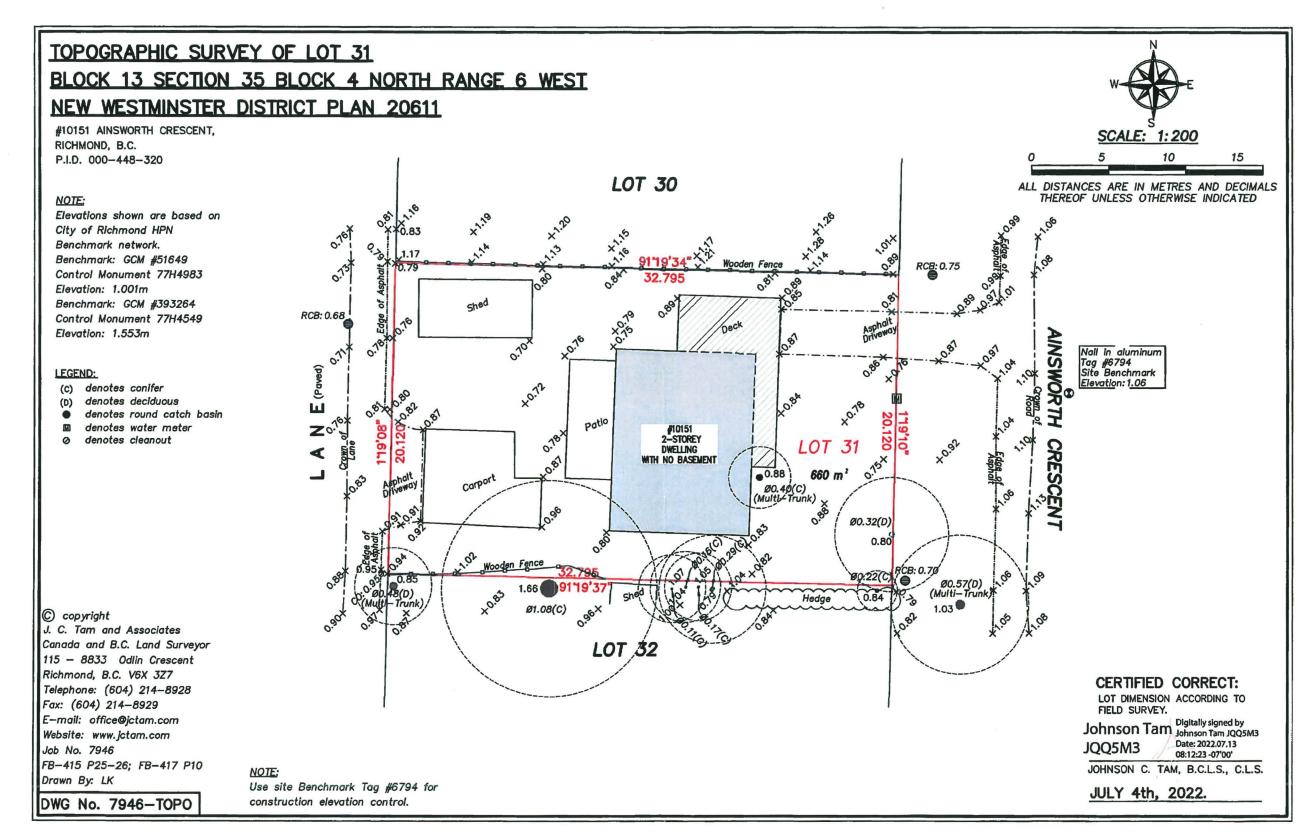


DP 22-019430 SCHEDULE "A"

Original Date: 08/23/22

Revision Date:

Note: Dimensions are in METRES





Development Application Data Sheet

Development Applications Department

DP 22-019430		Attachment 3

Address: 10151 Ainsworth Crescent

Jim Kirk, Prabherjot Saini, and

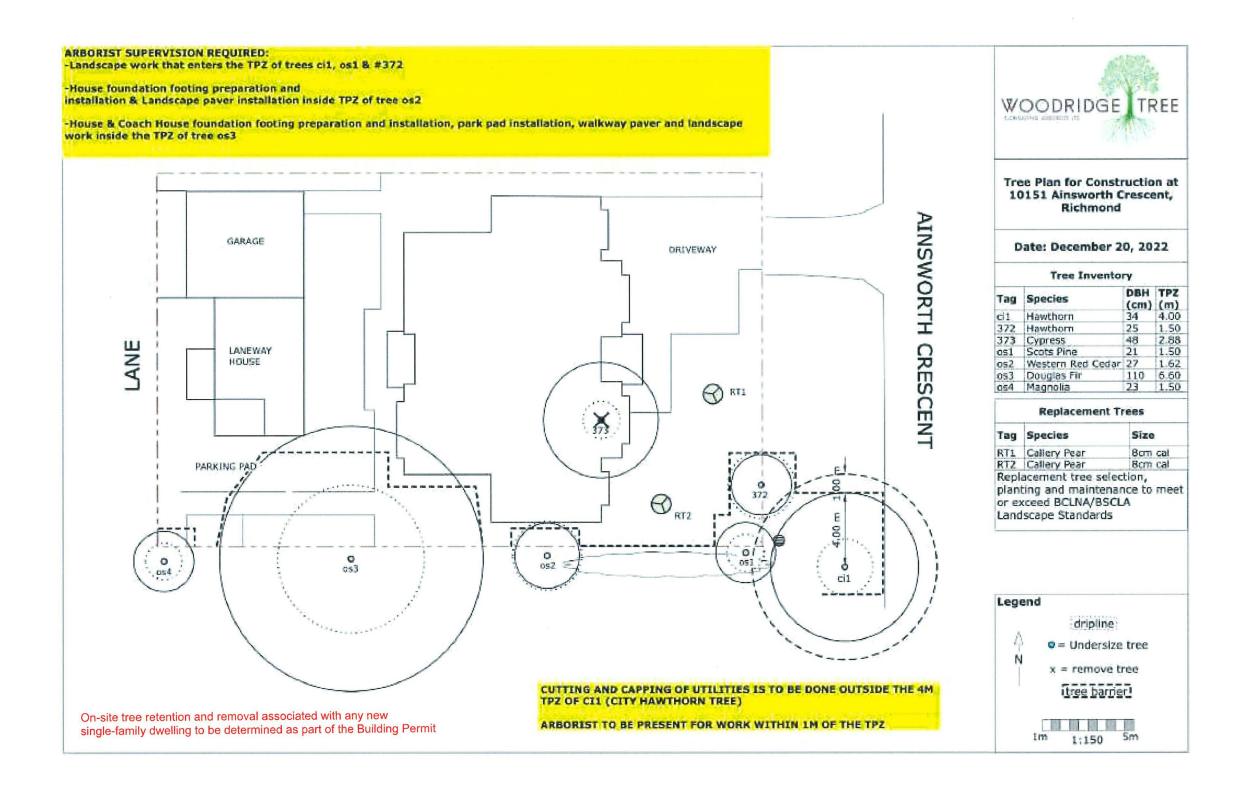
Applicant: Talvinder Jagde Owners: Robyn Kirk

Planning Area(s): Shellmont

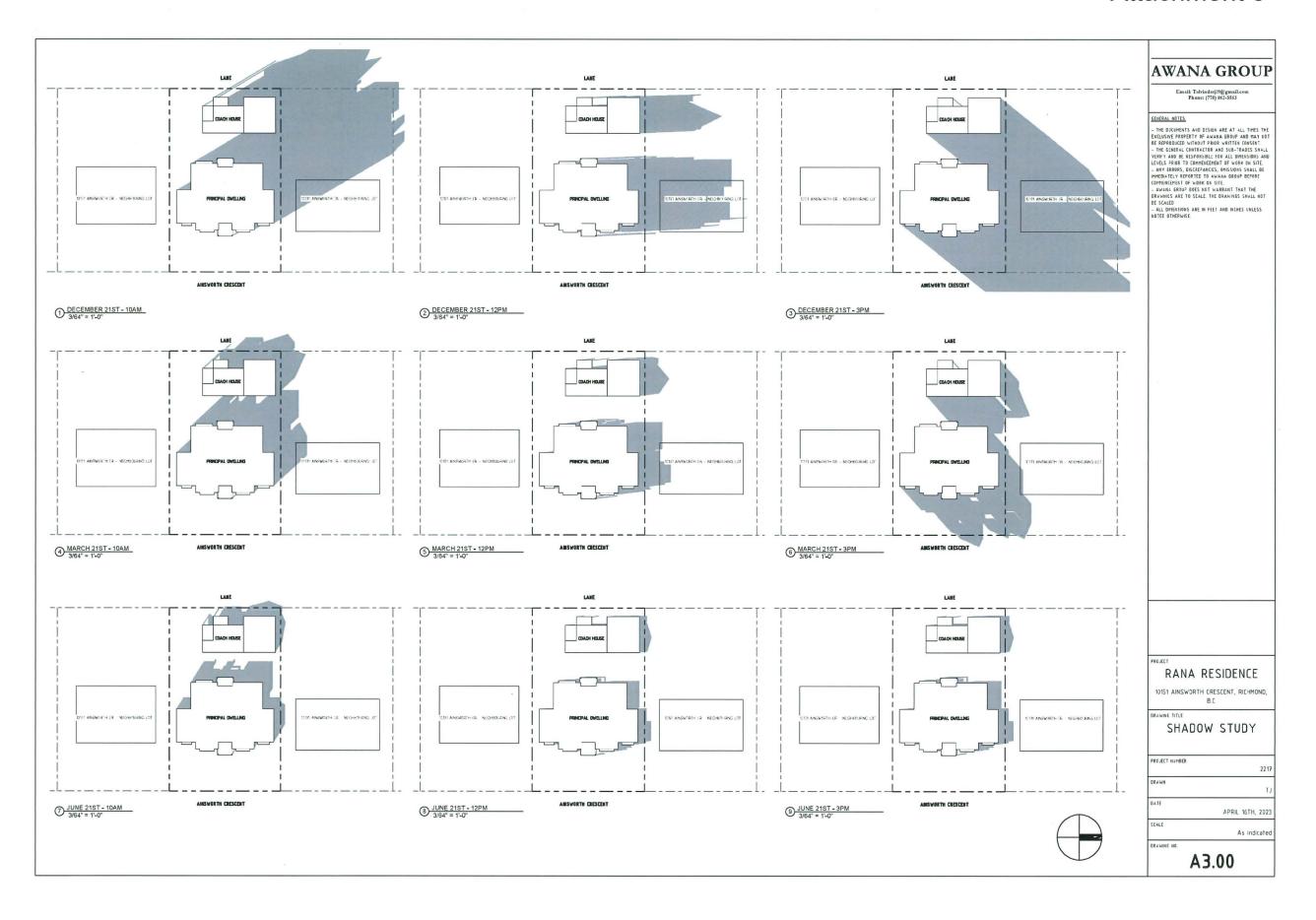
	Existing	Proposed
Site Area:	659 m²	659 m ²
Land Uses:	Single detached residential	Single detached residential with detached coach house
OCP Designation:	NRES	NRES
Zoning:	RE1	RE1
Number of Units:	1	1 Single Detached House 1 Coach House

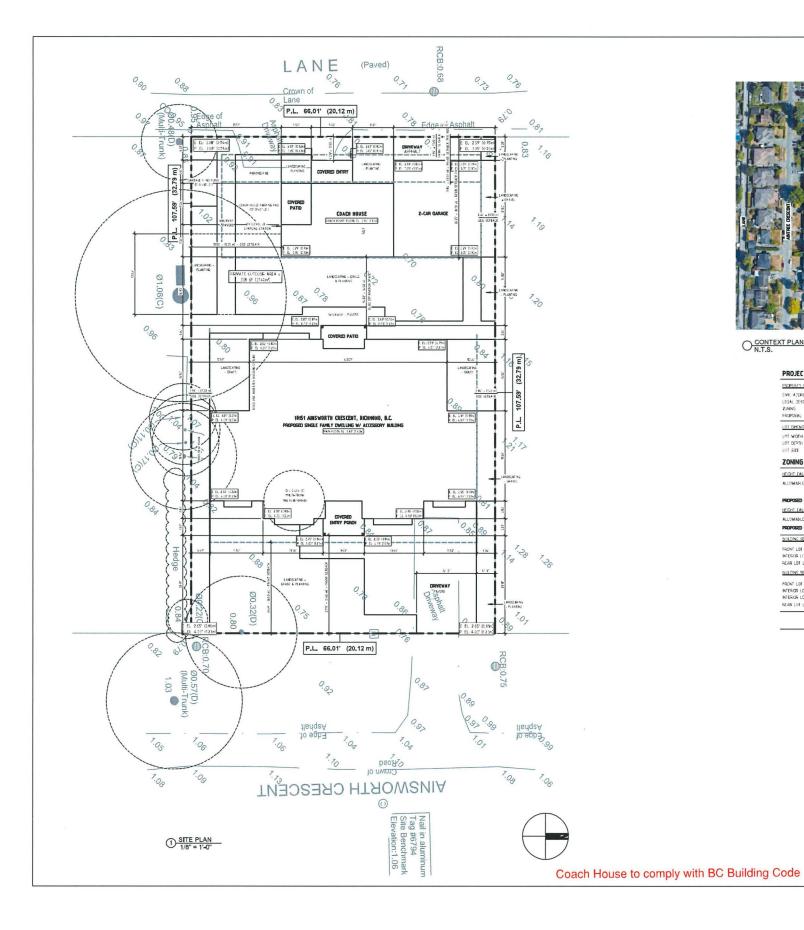
	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	Max. $0.6 \times 464.5 \text{ m}^2 + 0.3 \times \text{remainder} = 337 \text{ m}^2 (3,627 \text{ ft}^2)$	$0.6 \times 464.5 \text{ m}^2 + 0.3 \times \text{remainder}$ = 337 m ² (3,267 ft ²)	none permitted
Coach House Size	Min. 33 m ² and Max. 60 m ²	58.3 m ² (627.5 ft ²)	no
Lot Coverage:	Building: Max. 45% Non-porous surfaces: Max. 70% Live Landscaping: Min. 20%	Building: Max. 45% Non-porous surfaces: Max. 70% Live Landscaping: Min. 20%	no
Setback – Side Yard, north (coach house):	Min. 2.0 m	0.9 m	Variance Requested
Setback – Side Yard, south (coach house):	Max. 2.0 m	5.95 m	Variance Requested
Setback – Rear Yard (coach house):	Min. 1.2 m for max. 65% of rear façade; 3.0 m for min. 35% of rear façade; min. 1.5 m to entry	Min. 1.2 m for max. 65% of rear façade; 3.0 m for min. 35% of rear façade; min. 1.5 m to entry	no
Separation between single detached house and coach house:	Min. 4.5 m	5.4 m	no
Height (m) (coach house):	Max 1 ½ storeys or 6.0 m	Max 1 ½ storeys or 6.0 m	no
Lot Size:	Min. 550 m ²	660 m ²	none permitted
Off-street Parking Spaces – (coach house):	Min. 1	1	no
Amenity Space – Outdoor (coach house):	Min. 30 m²	31.4 m ²	no

Attachment 4



Attachment 5







GENERAL NOTES:

1 ALL WAR SHALL CHARM TO THE STANDARDS OF BRITSH COLUMN BUILDING TOCK FARM
IN CASE OF A DISSEPANCY SETWENS SPRILATIVES OF THESE GRAMMOS AND OF APPLICABLE
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OCONTEXT PLAN N.T.S.

PROJECT SUMMARY

CIVIC ACORESS.	ICIST AINSW	ORTH CRESCENT, RICHMOND, 3 C
LEGAL DESCRIPTION	LOT 31, SEC	TION 25, BLK 4N, RG 6W, PLAN NWF20611, PID 000-448-320
ZUNNG	SINGLE DETA	ACHED WITH COACH HOUSE - EDGEMERE GRES
FROPOSAL	FROPOSED S	INGLE FAMILY HOUSE W/ DETACHED JOACH HOUSE (GROUP C
LOT DHENSONS		
LOT WOTH	66.31	725 12 mJ
וודיסס דיוו	107.59	32 79 m3
LOT SIZE	11% SF	'660m²'

ALLOWARDE MAXIBLOG HEIGHT 2 1/2 STOREYS BUT SHALL NOT EXCEED RESCENTIAL VERTICAL LOC OFF THIS WORTH ENVELOPE.

	**	MINERE EDIT EN	CHILD WITH ENACTORS
PROPOSED BUILDING HEIGHT:	2854"	(0.70m)	REFER TO SHEET AZIO & AZOI
HEIGHT CALCULATION SACCESSORY BU	LONG.		
ALLOWABLE MAX BLDG HEIGHT	19 69	(6 Cm)	
PROPOSED BUILDING HEIGHT:	964	(5.99m)	"REFER TO SHEET AZICT
BUILDING SETBACKS (PRINCPA), BUILD	Ni	REQUIRED	FROFOSED
FRONT LOT LINE SETBACK		19 69" 16 Cm.	21 13" (6,46m)
INTERIOR LOT LINE SETBACK		194" [12m]	394" (12m)
REAR LOT LINE SETBACK		19 69" [6 Cm]	40 90" 112.4 7m)
BUILDING SETBACKS (ACCESSORY BUILDING	[ING]	RECURED	FRCFOSED
FRONT LOT LINE SETBACK:		394" [12m]	503' (5.05m)
			Acres 18 at 1

 GROSS FLOOR AREA CALCULATION (FRINCIPAL BUILDING)

 MAIN FLOOR
 188750 SF (175.55m²)

 SECOND FLOOR
 124342 SF (175.52m²)
 GROSS FLOOR AREA CALCULATION (ACCESSORY BUILDING):
MAIN FLOOR 772.35 SF (70.75n²)

3628.89 SF (337.17m²) ALLOWABLE GROSS FLOOR AREA DVERED FORCHEST 363126 SF :33735m²] x 0.10 + 36312 SF (33.73m²)

COVERED ENTRY: COVERED PATIO C.H. - COVERED ENTRY TOTAL = 159 SF (14.77m²)

LOT (OVERAGE CALCULATION)
ALLOWABLE LOT COVERAGE FOR BUILDINGS
PROPOSED BUILDING COVERAGE
ALLOWABLE LOT COVERAGE FOR BUILDINGS,
STRUCTURES AND NON-POROUS SURFACES 45% 40.8% 15% 4977 80 SF PROPOSED COVERAGE: 65.7% 4670 SF (433.85m⁸) LANDSCAPING CALCULATION TOTAL FRONT YARD AREA PROPOSED FRONT YARD LANSCAPING

DRAWING LIST		
No.	SHEET NAME	
A0.00	COVER SHEET	
Altz.	FLICTH FLANS	
A101	AREA FLANS	
A2 00	ELEVATIONS & SECTIONS	
A300	SHADOW STUDY	

AWANA GROUP

Email: Talvinderj19@gmail.com Phone: (778) 862-5563

GENERAL NOTES:

THE DOCUMENTS AND DESIGN ARE AT ALL TIMES THE EXCUSIVE PROPERTY OF AWAINA GROUP AND HAY NOT BE REPRODUCED WITHOUT PROR WRITTEN CONSENT.

THE GENERAL CONTRACTOR AND SUB-TRADES SHALL VERBY AND BE RESPONSIBLE FOR ALL DIMESSIONS AND LEVELS PRIOR TO COMMENCENT! OF WORK ON SITE.

ANY EXRONS, DISCREPARICES, OMISSIONS SHALL BE HIMEDIATELY REPORTED TO AWAINA GROUP BEFORE COMMENCEMENT OWNER, ON SITE.

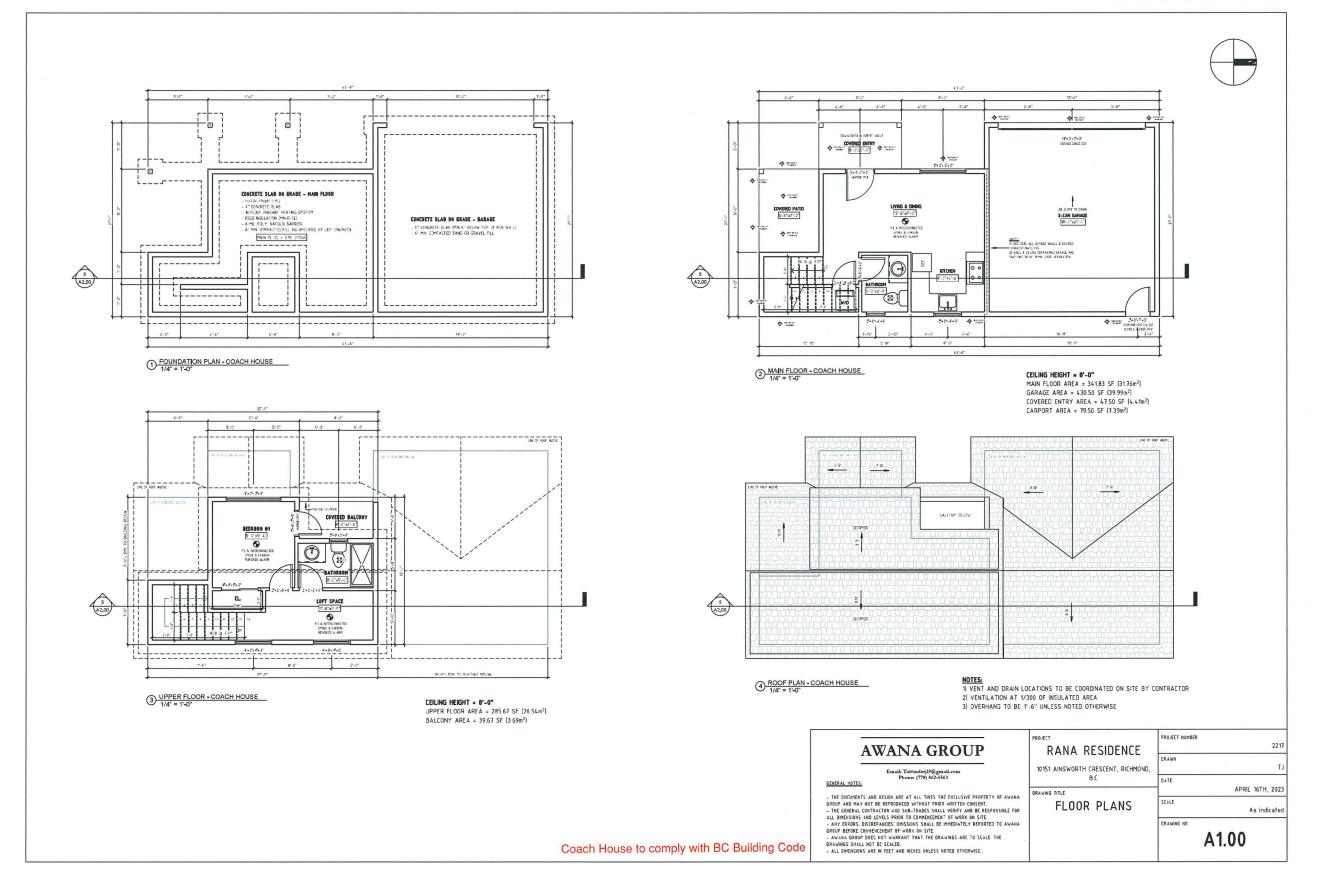
AWAINA GROUP DESCRIPTIONS ARE IN FEET AND INCHES UNICES NOTED OTHERWISE.

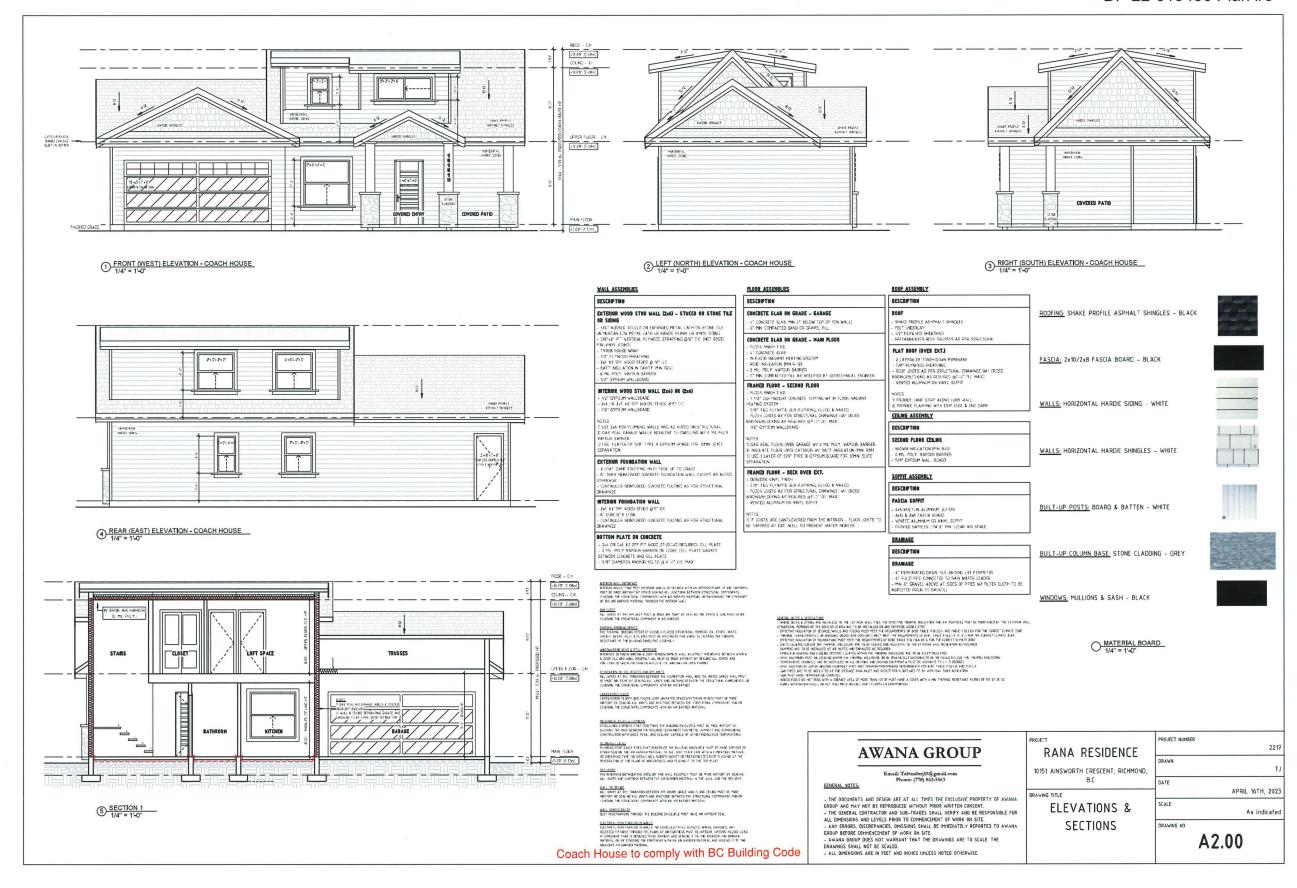
RANA RESIDENCE

10151 AINSWORTH CRESCENT, RICHMOND,

DRAWING TITLE COVER SHEET PROJECT NUMBER APRIL 16TH, 2023 As indicated

A0.00





LANDSCAPE CONTRACT DOCUMENTS

PROJECT: LANDSCAPE FOR COACH HOUSE

LOCATION: 10151 AINSWORHT CRESCENT, RICHMOND BUILDING DESIGNER: TALVINDER JAGDE LANDSCAPE ARCHITECT CONSULTANT: SW LANDSCAPE ARCHITECT ATTN: STEVE WONG 778 834-8959 stevewong234@gmail.com

SUMMARY OF LANDSCAPE SCOPE OF WORK

SUMMARY: THE LANDSCAPE PORTION OF THE PROJECT INCLUDES ALL LANDSCAPE WORKS ASSOCIATED WITH THE CONSTRUCTION OF A NEW COACH HOUSE DEVELOPMENT. THIS INCLUDES BUT NOT LIMITED TO, REMOVAL AND DISPOSAL OF EXISITING MATERIAL, SITE PREPARATION, GRADING AND DRAINAGE, THE SUPPLY AND INSTALLATION OF GROWING MEDIUM, LANDSCAPE PLANTS, MULCH,
IRRIGATION SYSTEM, CIP CONCRETE WALKWALLS/STAIRS, ASPHALT, FENCING, GATES, TIMBER CURB, ONE YEAR WARRANTY AND ONE YEAR LANDSCAPE MAINTENANCE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER FEED IN ORDER TO ALLOW FOR THE INSTALLATION OF A COMPLETE, FUNCTIONING LANDSCAPE IRRIGATION SYSTEM, LANDSCAPE DESIGN/WORKS IS TO BE COORDINATED WITH ALL OTHER WORK ON THIS SITE.

LANDSCAPE LIST OF DRAWINGS

- LO COVER SHEET
- LAYOUT
- PLANTING PLAN
- TREE MANAGEMENT PLAN
- L4 DETAILS

GENERAL CONDITIONS OF THE CONTRACT

-REFER TO GENERAL CONDITIONS OF CONTRACT, BY PRIME CONSULTANT REFER TO, AND COORDINATE THESE CONTRACT DOCUMENTS WITH THE CONTRACT DOCUMENTS WITH THE CONTRACT DOCUMENTS OF THE OTHER CONSULTANTS AND THE MAIN CONTRACT

LANDSCAPE SPECIFICATIONS

- CANADIAN LANDSCAPE STANDARD (CLS), SECOND EDITION PYRIGHT, 2020, ISBN: 978-0-9950714-1-4
- CANADIAN SOCIETY OF LANDSCAPE ARCHITECTS
 12 FORILLON CRESCENT, OTTAWA ON K2M 2W5
- 1-613-668-4775 csla-aapc.ca CANADIAN NURSERY LANDSCAPE ASSOCIATION 7856 FIFTH LINE SOUTH MILTON ON L9T 2X8

SUPPLEMENTARY SPECIFICATIONS- PROJECT SPECIFIC:

9. LANDSCAPE MAINTENANCE: ADD: PER SECTION 9.1.5, ESTABLISHMENT AND WARRANTY MAINTENANCE, THE MAINTENANCE PERIOD WILL BE FOR 1 CALENDAR YEAR FROM DATE OF ACCEPTANCE. PER SECTION 9.1.7, MAINTENANCE LEVEL FOR THIS PROJECT WILL BE AT LEVEL

CLS SPECIFICATIONS

- SCOPE OF THE STANDARD
- CONTRACT ADMINISTRATION
 SITE PREPARATION AND PROTECTION
- GRADING AND DRAINAGE

- MULCHING SEEDING AND SODDING LANDSCAPE MAINTENANCE
- IRRIGATION SYSTEMS
 INTEGRATED PEST AND VEGETATION MANAGEMENT
- HARDSCAPE LANDSCAPE OVER STRUCTURES
- INTERIOR PLANTSCAPE N/A

APPENDIX A: LIST OF TABLES AND FIGURES APPENDIX B: BASIC CONTENTS OF A LANDSCAPE COMMISSIONING PLAN
APPENDIX C: CANADIAN NURSERY STOCK STANDARD, NINTH EDITION APPENDIX D: NATIONAL VOLUNTARY CODE OF CONDUCT FOR THE ORNAMENTAL

GLOSSARY OF TERMS AND DEFINITIONS

2. MMCD (LATEST EDITION) SPECIFICATIONS AND DRAWINGS, WITH MUNICIPAL SUPPLEMENTARY SPECIFICATIONS AND ALL APPLICABLE MUNICIPAL BY-LAWS.

3. CAN/CSA-Z614-14 CHIDREN'S PLAY SPACES AND EQUIPMENT AND IPEMA (INTERNATIONAL PLAY EQUIPMENT MANUFACTURERS ASSOCIATION) STANDARD, SPECIFICATIONS FOR PLAY SURFACES TO INCLUDE ASTM F292/1951/2075/2223/355

- IN CASE OF CONFLICTING SPECIFICATIONS THE MOST STRINGENT SPECIFICATION PREVAILS CONTRACTOR TO PROVIDE DIGITAL PHOTOS TO THE LANDSCAPE ARCHITECT FOR ALL WORK WILL BE BURIED OR CONCEALED IN ORDER TO CONFIRM THAT THE WORK MEETS
- SPECIFICATIONS AND APPLICABLE STANDARDS
 3. CONTRACTOR TO PROVIDE DIGITAL PHOTOS OF ALL PLANT MATERIAL AT THE NURSERY FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO SHIPPING, PHOTOS ARE TO BE REPRESENTATIVE OF T PLANTS TO BE SHIPPED AND CLEARLY SHOW THE QUALITY AND SIZE OF THE PLANTS. A MEASURING STICK SHOULD BE USED WHERE NECESSARY TO SHOW THE HEIGHT OF A PLANT.

GENERAL PROJECT AND CONTRACTOR NOTES

- Contractor shall review these plans thoroughly, make a detailed site visit, and shall immediately bring any inconsistency, site layout problem, or any other request for clarification to the Landscape Architect for resolution prior to the delivery of any bid. Failure to do so shall cause the Contractor to be ineligible for extras relating to such matters.

 Contractor shall submit reproducible shop drawings to Landscape Architect for Owner's approval.
- Contractor shall co-ordinate with all trades to provide complete working systems
- Drawings of existing facilities are, in general, diagrammatic. Exact locations shall be determined by the Contractor from field measurements taken by Contractor's personnel. Actual arrangement of the work shall follow locations shown on the drawings within the constraints of existing equipment and construction. Dimensions shall govern these drawings and they are not to be scaled. Any scales on drawings are only for the Contractor's convenience. Drawing and notes to drawings are correlative and have equal authority and priority. Should there be discrepancies in themselves or between them, Contractor shall base bid pricing on the most expensive combination of quality and/or quantity of the work indicated. In the event of discrepancies, the appropriate method of performing the work and/or items to be incorporated into the scope of the k shall be determined by the appropriate design professional (eg Landscape Archit Architect, Engineer)
- 5. Contractor is responsible for the safety, actions and conduct of his employees and his subcontractors' employees while in the project area, adjacent areas and in the building and its
- 6. All work described by these documents shall be performed in full accordance with all applicable codes and standards.
 7. 7 All materials, finishes, manufactured items, and equipment shall be installed in full accordance
- with the supplier's or manufacturer's written recommendations or these documents, whichever is 8. Requests to substitute any product, technique, or material shall be submitted in writing to
- Landscape Architect for approval. Samples, product information, and drawings shall be required prior to substitution approval. Proposed substitution shall be of equal quality and performance specification to that originally specified.
- All workmanship, material, and equipment shall be guaranteed for one year from date of Owner acceptance. Any failure or deterioration within this period shall be corrected by the contractor at the contractor's expense.
- 10.Coordinate landscape drawings with architect/engineer and all other consultant drawings.

GENERAL LANDSCAPE NOTES

- 1. All landscape works are to meet the specifications and standards of the latest edition of the CANADIAN LANDSCAPE STANDARD, published by the Canadian Society of Landscape rchitects and the Canadian Nursery landscape Association.
- 2. All landscape works to be carried out by a contractor with minimum 5 years' experience doing work similar in scope and size, and on at least 3 comparable projects. The contractor needs to be a member in good standing with the appropriate trade organization: eg, B.C. Landscape and Nursery Association (BCLNA), Irrigation industry Association of B.C. (IJABC), Execution of work
- to be under the direct supervision of qualified industry certified technicians,

 3. All grades to meet adjacent grades at property line. All stormwater is to be contained on site and away from adjacent properties. All hard surfaces to be sloped a minimum of 1.5%, and all lawn areas to be sloped a minimum of 2% to avoid standing water. Contractor is ultimately responsible for ensuring there is no standing water on site over an extended period.

 4. No slopes to be steeper than 2.5 horizontal: 1 vertical.
- All plant material and growing medium to meet Canadian Landscape Standard #1 specifications. Plant search area is to be any plant nursery within the Lower Mainland. Plant substitutions are only allowed if approved by Landscape Architect. Suggested plant substitutions shall be of similar
- species and of at least equal size to those originally specified.

 6. All shrub beds to contain minimum 18" (450) mm depth of approved growing medium over scarified subgrade. All lawn areas to contain minimum 6" (150) mm of approved growing medium
- over scarified subgrade.
 7. All guardrails are required wherevever the fall height is over 2 ft. Guardrails to be a minimum 42" high from any climbable surface surface. Maximum openings between pickets to be under 4".

 8. Stairs to have consistent rise/run for risers and treads. Stair treads to slope 2% to front edge of
- tread for drainage and constructed with materials or finishes to prevent slip falls. All stairs over 2 risers to have handrails between 32" to 38" high from the front of stair treads, and to extend 12" past the end of top/bottom treads.

 9. Exterior ramps to adhere to BC Building code if greater than 5% slope. Ramps to be maximum of
- 8.3% and minimum 5' width. Handrails required on both sides. Construction to adhere to BC Building code.
- 10.All retaining walls and structures over 4 ft. in height or if there are issues with soil stability require signoff from the approriate engineer (eg structural, geotechnical). Contractor to provide engineer stamped shop drawings for Landscape Architect.
- 11, Landscape installation to be reviewed by registered Landscape Architect.

GENERAL TREE NOTES

- Any permitted tree removal(s) must be performed by a qualified professional.
 No grade changes are to occur within the critical root zones of any retained trees. Any exposed roots from lines of excavation must be covered with burlap and then poly plastic in an effort to prevent dessication of exposed roots; this root curtain must be removed prior to backfilling. Trees must be adquately watered during the entire construction process.

 3. The removal of existing organics within the critical root zones of retained trees must be performed.
- manually, when installing new plant material within the critical root zones of retained trees, if large roots (1.5' diameter and larger) are encountered, then new plantings must be shifted to accommodate. No more than 3" of additional soil for new landscaping may be added within any
- critical root zone.

 4. Any excavation work or work within the protection zone of retained trees requires the supervision of a certified arborist. This includes, but is not limited to: demolition, the installation of any permeable or impermeable surfaces (concrete, asphalt, pavers, etc.), installation of permanent or temporary services (gas, sewer, storm, sanitary, communication, electrical, irrigation, etc.), during the installation of patios, driveways, or any hardscape, during the installation of footings for
- fences, walls, decorative walls, retaining walls, decks, and deck footings.

 5. Construction materials must not be stored within the tree protection zone (TPZ) of trees to be retained, and TPZ fencing to remain intact for the entire construction process. Signage must be clearly posted on each side of the barrier indicating Tree protection zone-Do not enter of modify'.

 Contact your project arborist for any TPZ barrier issues.
- 6. Refer to arborist report and drawing where applicable.

MATERIALS LIST-COORDINATE WITH SPECIFICATIONS

- ASPHALT: 3" of compacted hot mix asphalt applied in 2 lifts over 4" of well compacted ¾" minus base course per municipal and MMCD specifications,
- 2. FENCE- POST SADDLE BRACKET: By Simpson Strong-Tie, WUB44RHDG for full dimension 4" post, galvinized with 15M rebar.

 3. FENCE-WOOD: Full dimension #2 and better cedar boards, finished with 2 coats of Sikkens
- semi-transparent cedar stain. Posts and kick board to be full dimension wood, incised and rated for ground contact approved per CCA/MCA PT.

 4. GATE HARDWARE: Hardware should be in black finish by Onward Hardware with 3 heavy duty
- 8" strap hinges (923 FBR), adjustable-tension gate spring (304 FBR), gate latch (301 FBR) gate pull (478 FBR0) and a rubber gate stopper (480 BPYR0) or pre-approved equivalent. If lockable latch is required: Lockable latch by National Hardware, V6203, N346-202 for keyed access from both sides and with polymer and stainless steel construction.
- GRAVEL EDGE: Gravel edge around the building to be 3/4" clean drain rock, minimum 4" depth.
 GROWING MEDIUM: In accordance with CLS standards, latest edition. For Turf Areas: Level 1H (High Traffic Lawn Areas), containing by weight: 70-90% sand, maximum 25% fines (max 20% clay), 3-5% organic matter, with pH between 6-7; For Planting Areas: Level 1P (Planting Areas), containing by weight: 50-70% sand, maximum 25% fines (max 20% clay), 10-20% organic matter, with pH between 4.5-6.5. Supplied by Veratec Engineered Products (www.veratecgroup.com), DENBOW (www.denbow.com), SUMAS GRO MEDIA (www.sumasgromedia.com) or equivalent; 6"min for lawn areas on grade, 18" min for planted areas on grade, over scarified base, or as otherwise specified. A current representative soil analysis is to be done by Pacific Soil Analysis, Richmond to confirm soil sample meets specifications prior to shipping. If after shipping the quality of the soil is in question, further sampling and testing by Pacific Soil Analysis will be required at contractor's expense. If it is determined that the soil does not meet CLS Specifications, the soil is to be removed at contractor's expense. Contact information for Pacific Soil Analysis is: #5-11720 Voyageur Way, Richmond, BC V6X 3G9: Phone (604) 273-8226. For growing medim on roof, see section under
- 7. IRRIGATION: Supply and installation required for a complete automatic, inground irrigation system to provide supplemental water efficiently and uniformly. All components to be new, and includes all pipes, sleeves, valves, in-ground irrigation boxes, sprinkler heads, solenoid wires, controller and rain sensor. Hose bibs and quick couplers to be on their separate zone. Controlle to have 2 extra zones for future expansion and if installed outside, to have controller and wiring secured in a lockable, weatherproof metal box. Irrigation components to be Rainbird, Toro or Hunter, Irrigation design and installation per Canadian Landscape Standards, latest edition, Design to be completed by a qualified designer/contractor with IIABC. Shop drawings for the irrigation design are to be provided by contractor and to be approved by the landscape architect prior to installation. Contractor is responsible for providing a water service line and connecting irrigation system to water service line complete with backflow preventor, pressure reducing valve and isolation valves. Contractor to adjust irrigation controller, sprinkler heads and commission system in addition to providing as-built drawings and a one year warranty.

 8. LANDSCAPE EDGING: HDPE edging by Precision Edging (PE 20C) 7/16" by 4", screwed to
- plastic spikes (1.25" by 12") every 2' OC.
- 9. MULCH: To be composted fir bark, having dark brown, fine texture and ½" minus, applied evenly at a 2" depth over plant beds. Available from Augustine Soil and Mulch (604 465-5193) o
- 10.PAVERS-PERMEABLE: AQUAPAVE by Abbotsford Concrete Products. Standard Series, 4 5/16" by 8 3/4" by 3 1/8" inches, Natural colour, running bond with soldier course in Charcoal col installed per manufacturer's instructions.
- 11.PLANT MATERIAL: All plant material are to meet current Canadian Landscape Standard (CLS) #1 and installed according to current CLS standards by qualified contractor. Plant search is generally throughout the Lower Mainland except as indicated otherwise, Any plant substitutions nust be approved by Landscape Architect
- Target Alphine Walt-Concrete Per applicable industry standards. Concrete to be reinforced with rebar as shown on drawings, Drawings are to be confirmed with structural engineer, For retaining walls over 4' high, or where there may be issues with glaobal stability, stamped engineered drawings are required. Provide shop drawings for consultant review prior to placing showing expansion and control joints.
- 13.SOD: All sod to be sand based sod (Perennial rye/Kentucky bluegrass) with no netting. Supplied by Bos Sod Farms or equivalent. No clay or silt soil to be allowed.
- 14.WOOD: Per industry standards. All exterior wood to be rot resistant, either western red cedar. yellow cedar, robinia, ipe or pressure treated (PT), Minimum standard to be #2 and better. Wood to be finished with minimum 2 coats of an approved exterior grade finish, All wood in contact with ground to be incised, ground contact approved per CCA/MCA PT. All cuts to be sealed prior to

NOTE: ALL MATERIALS SHOWN ON DRAWINGS ARE NOT NECECARILY INCLUDED IN THIS MATERIALS LIST, CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL MATERIALS REQUIRED TO COMPLETE LANDSCAPE WORKS PER CONTRACT DOCUMENTS





STREET VIEW OF PROJECT SITE

No.	Date	Issue/Revision Notes
Α	1/8/2023	FOR COORDINATION
В	1/11/2023	SUBMIT FOR BP
- 1		
-1		
- 1		
- 1		
- 1		
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- 1		
- 1		

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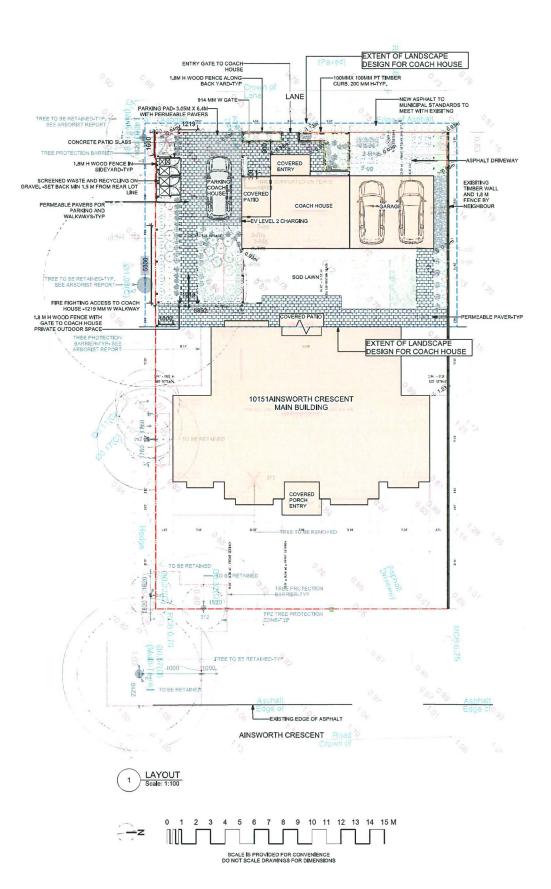
SWI ANDSCAPE ARCHITECT 19 MELBOURNE AVENUE, NORTH VANCOU

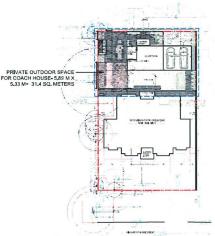
HARK RANA

RANA RESIDENCE 10151 AINSWORTH CRESCENT RICHMOND, BC

COVER SHEET

STEVE WONG	Project ID 2022=36
SW SW	AS NOTED
DECEMBER 2022	L-0
AINSWORTH v1.vwx	5





COACH HOUSE PRIVATE OUTDOOR SPACE
Scale: 1:300

COACH HOUSE PRIVATE OUTDOOR SPACE

TOTAL PROPOSED 31.4 SQ M AREA REQUIRED 30.0 SQ M

DP 22-019430 Plan #5

- GENERAL PROJECT AND CONTRACTOR NOTES

 1. Contractor shall review these plans thoroughly, make a detailed site visit, and shall immediately bring any inconsistency, site layout problem, or any other request for clarification to the Landscape Architect for resolution prior to the delivery of any bid. Failure to do so shall cause the Contractor to be ineligible for extras relating to such matters.

- 2. Contractor shall submit reproducible shop drawings to Landscape Architect for Owner's approval.

 3. Contractor shall co-ordinate with all trades to provide complete working systems.

 4. Drawings of existing facilities are, in general, diagrammatic. Exact locations shall be determined by the Contractor from field measurements taken by Contractor's personnel. Actual arrangement of the work shall fell where the statement of th of the work shall follow locations shown on the drawings within the constraints of existing equipment and construction. Dimensions shall govern these drawings and they are not to be scaled. Any scales on drawings are only for the Contractor's convenience. Drawing and notes to drawings are correlative and have equal authority and priority. Should there be discrepancies in themselves or between them, Contractor shall base bid pricing on the most expensive combination of quality and/or quantity of the work indicated. In the event of discrepancies, the appropriate method of performing the work and/or items to be incorporated into the scope of the work shall be determined by the appropriate design professional (eg Landscape Architect,
- Architect, Engineer)

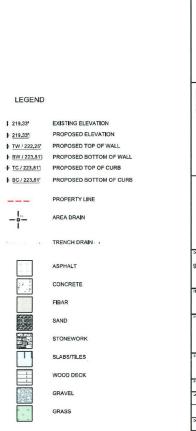
 5. Contractor is responsible for the safety, actions and conduct of his employees and his subcontractors' employees while in the project area, adjacent areas and in the building and its
- subcontractors employees while in the project area, adjacent areas and in the building and its vicinity.

 6. All work described by these documents shall be performed in full accordance with all applicable codes and standards.

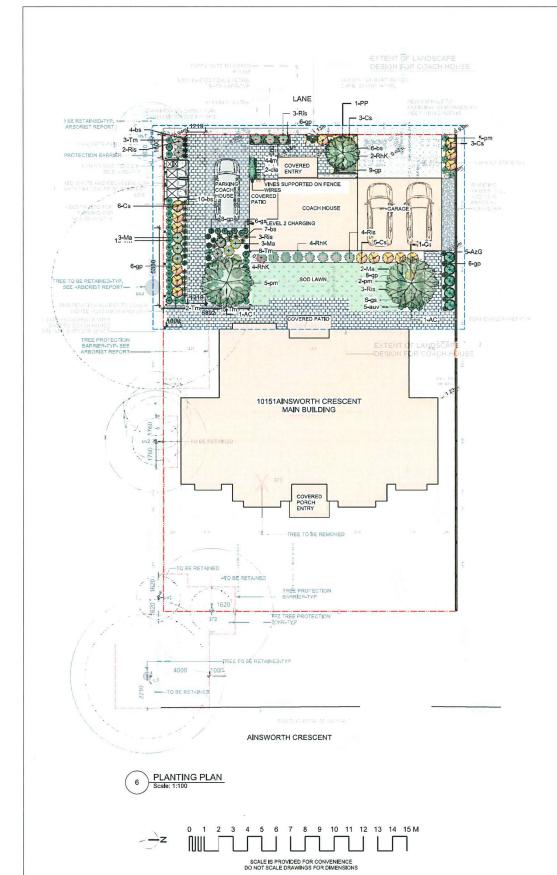
 7. 7 All materials, finishes, manufactured items, and equipment shall be installed in full accordance with the supplier's or manufacturer's written recommendations or these documents, whichever is more stringent.
- Requests to substitute any product, technique, or material shall be submitted in writing to Landscape Architect for approval. Samples, product information, and drawings shall be required prior to substitution approval. Proposed substitution shall be of equal quality and performance
- specification to that originally specified.

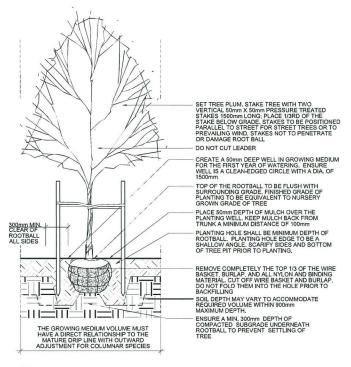
 9. All workmanship, material, and equipment shall be guaranteed for one year from date of Owner acceptance. Any failure or deterioration within this period shall be corrected by the contractor at
- the contractor's expense.

 10.Coordinate landscape drawings with architect/engineer and all other consultant drawings.

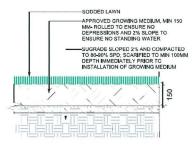


No.	Date	Issue/Revision Notes
Α	1/8/2023	FOR COORDINATION
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1 TREE PLANTING DETAIL
Scale: N/A



SODDED LAWN

Botanical Name	Common Name	No.	Size	Spacing	Sym
TREES					
Acer circinatum	Vine maple	2	7 cm	as shown	AC
Parrotia persica 'Spire'	Parrotia	1	7 cm	as shown	PP
SHRUBS					
Azalea 'Girard Fuchsia'	Azalea	5	#2 pot	as shown	AzG
Cornus stolonifera	Redtwig dogwood	18	#2 pot	as shown	Cs
Mahonia aquiufolium	Oregon grape	8	#2 pot	as shown	Ma
Rhododendron 'Kalinka'	Rhododendron	10	#2 pot	as shown	RhK
Ribes sanguinium	Red flowering currant	15	#2 pot	as shown	Ris
Taxus media 'Hillii'	Yew	34	1.2 m	as shown	Tm
VINES, GROUND COVERS AND HERE	BACEOUS PERENNIALS				
Arctostaphylos uva-ursi	Kinnickinnick	5	#1 pot	as shown	auv
Blechnum spicant	Deer fern	27	#1 pot	as shown	bs
Clematis armandii	Evergreen clematis	2	#1 pot	as shown	cla
Gaultheria procumbens	Wintergreen	43	#1 pot	as shown	gp
Gaultheria shallon	Salal	12	#1 pot	as shown	gs
Liriope muscari 'Big Blue'	Lily turf	4	#1 pot	as shown	lm
Polystichum munitum	Western sword fern	12	#1 pot	as shown	pm
Contractor to be certified by BCLNA					

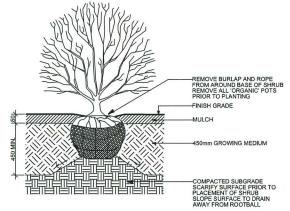
GENERAL PLANTING NOTES

- 1. GROWING MEDIUM: In accordance with CLS standards, latest edition. For Turf Areas: Level 1H (High Traffic Lawn Areas), containing by weight: 70-90% sand, maximum 25% fines (max 20% clay), 3-5% organic matter, with pH between 6-7; For Planting Areas: Level 1P (Planting Areas), containing by weight: 40-80% sand, maximum 25% fines (max 20% clay), 10-20% organic matter, with pH between 4.5-6.5. Supplied by Veratec Engineered Products (www.veratecgroup.com), DENBOW (www.denbow.com), SUMAS GRO MEDIA (www.sumasgromedia.com) or equivalent; 6"min for lawn areas on grade, 18" min for planted areas on grade, over scarified base, or as otherwise specified. A current representative soil analysis is to be done by Pacific Soil Analysis, Richmond to confirm soil sample meets specifications prior to shipping. If after shipping the quality of the soil is in question, further sampling and testing by Pacific Soil Analysis will be required at contractor's expense. If it is determined that the soil does not meet CLS Specifications, the soil is to be removed at contractor's expense. Contact information for Pacific Soil Analysis is: #5-11720 Voyageur Way, Richmond, BC V6X 3G9: Phone (604) 273-8226.
- (604) 273-8226.

 2 MULCH: To be composted fir bark, having dark brown, fine texture and ½" minus, applied evenly at a 2" depth over plant beds. Available from Augustine Soil and Mulch (604 465-5193) or equivalent.

 3. PLANT MATERIAL: All plant material are to meet current Canadian Landscape Standard (CLS) #1 and installed according to current CLS standards by qualified contractor. Plant search is generally throughout the Lower Mainland except as indicated otherwise. Any plant substitutions must be approved by Landscape Architect.
- must be approved by Lanoscape Architect.

 IRRIGATION: Supply and installation required for a complete automatic, inground irrigation system to provide supplemental water efficiently and uniformly. All components to be new, and includes all pipes, sleeves, valves, in-ground irrigation boxes, sprinkler heads, solenoid wires, controller and rain sensor. Controller to have 2 extra zones for future expansion and if installed outside, to have controller and wiring secured in a lockable, weatherproof metal box. Irrigation components to be Rainbird, Toro or Hunter. Irrigation design and installation per Canadian Landscape Standards, latest edition. Design to be completed by a qualified designer/contractor with IIABC. Shop drawings for the irrigation design are to be provided by contractor and to be approved by the landscape architect prior to installation. Contractor is responsible for providing water service and connecting irrigation system to water service complete with backflow preventor, pressure reducing valve and isolation valves. Contractor to adjust irrigation controller, sprinkler heads and commission system in addition to providing as-built drawings and a one year warranty.



NOTES:

SHRUB TO BE PLANTED WITH ELEVATION OF TOP OF ROOTBALL OR POT LEVEL WITH FINISH GRADE OF GROWING MEDIUM.
 COMPOSTED BARK MULCH AT 50mm DEPTH TO BE KEPT AT LEAST 50mm AWAY FROM STEMS OF SHRUB.
 PLANTING PIT MUST BE FREE DRAINING

SHRUB PLANTING DETAIL

IRRIGATION: Supply and installation required for a complete automatic, inground irrigation system to provide supplemental water efficiently and uniformly. All components to be new, and includes all pipes, sleeves, valves, in-ground irrigation boxes, sprinkler heads, solenoid wires, controller and rain sensor. Hose bibs and quick couplers to be on their separate zone. Controller to have 2 extra zones for future separate zone. Controller to have 2 extra zones for future expansion and if installed outside, to have controller and wiring secured in a lockable, weatherproof metal box. Irrigation components to be Rainbird, Toro or Hunter. Irrigation design and installation per Canadian Landscape Standards, latest edition, Design to be completed by a qualified designer/contractor with IIABC. Shop drawings for the irrigation design are to be provided by contractor and to be approved by the landscape architect rigor to installation. Contractor is the landscape architect prior to installation. Contractor is responsible for providing a water service line and connecting irrigation system to water service line complete with backflow preventor, pressure reducing valve and isolation valves. Contractor to adjust irrigation controller, sprinkler heads and commission system in addition to providing as-built drawings and a one year warranty.

No.	Date	Issue/Revision Notes	
Α	1/8/2023	FOR COORDINATION	
В	1/11/2023	SUBMIT FOR BP	
- 1			
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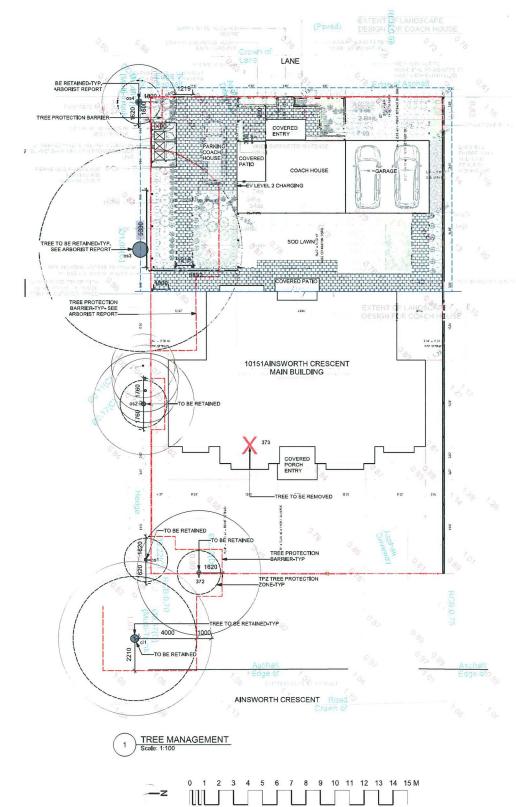
SWI ANDSCAPE ARCHITECT 9 MELBOURNE AVENUE, NORTH VANCOL

HARK RANA

RANA RESIDENCE 10151 AINSWORTH CRESCENT RICHMOND, BC

PLANTING PLAN

Pieject Manager	Project ID	_
STEVE WONG	2022-36	
SW	AS NOTED	_
	Sheel No.	
DECEMBER 2022	of	
AINSWORTH v1.vwx	.5	



SCALE IS PROVIDED FOR CONVENIENCE DO NOT SCALE DRAWINGS FOR DIMENSIONS

Tree Inventory and Assessment

- . DBH Diameter at 1.4m height measured in centimeters on trees with multiple stems the 3 largest sections measured at 1.4m are combined to make up the totaL
- critical root zone (TPZ) = dbh x 6 unless otherwise specified
 LCR = live crown ratio, percentage of live crown remaining

• ci - City owned tree • CR - Crown radius

os - off site tree

ID#	Common Name	Botanical Name	DBH (cm)	LCR (%)	CR (m)	Height (m)	Condition & Comments	Action	TPZ (m)
ci1	Hawthorn	Crataegus laevigata	12+ 12+ 10= 34	70	1,5	3-5	Multi-stem tree from the base. The canopy begins around 2.4m, and has some small deadwood. City requires a 4m protection zone area for the tree. Cutting and capping of services is to be carned out outside the	Retain Install a tree barrier 4,00m from the tree Arbor st to supervise any work	
							4m TPZ. Single stem, splitting to multiple codominant leaders around 2m	within 1m of the TPZ	4.
372	Hawthorn	Crataegus /aevigala	25	20	2	3-5	single seem, spating to muspec coolininarities described and with bark Industriant. The tree base budges, The canopy has significant described. Proposed building does not conflict with the tree focation. Landscape work will enter the TPZ of the tree.	Install a tree barrier 1,50m from the tree Arbor st supervision recommended for landscape work that enters the TPZ	1.
373	Cypress	Chamaecyparis spp.	18+ 30= 48	90	1	3-5	Majkitetin tree from Q.Sm. The is 0.5m form the existing house, Canopy has light seadwood on the interior. The tree location conflicts with the proposed building footprint	Remove	2.
os1	Scots Pine	Pinus sylvestris	21	20	1	3-5	Single stem with multiple codominant leaders beginning around 2m., The canopy is around 3m and concentrated at the free top. Proposed building does not conflict with the tree location. Landscape work will enter the TPZ of the tree	Retain Install a tree barrier 1,50m from the tree Arborst supervision recommended for landscape work that enters the TPZ	1.
os2	Western Red Cedar	Thuja pücata	27	70	2	3+5	Sogie stem, spliting for multiple codeminant leaders around Im with tank indusions, Canophy has been pruned back from the subjects house. Tree is after as heaperov, and the canophy has light seadwood on the interfor. Landscape pare installation will enter the TPZ of the tree, House foundation preparation and installation will enter the TPZ.	Retain Install a tree barrier 1,62m from the tree Arborst supervision recommended for fandscape work & house footing preparation and installation that enters the TPZ	1.
os3	Douglas Fir	Pseudotsuga menziesti	110	70	4	15-18	Single stem, splitting to multiple codominant leaders around 4-6m with bank inclusions. The cancey begins around 3-6m and has some light deadwood on the interior. The trae cit in a slight by raised garden bed. Installation of tendscape work (sod, pavers etc.), house foundation, coach house, park pad installation enters the TPZ of the tree.	Retain Indial a tree barrier 6,50m from the tree. After st supervision recommended for house & coach house footing preparation and installation, park pac installation, wakway pavers and jandscape work.	6.
os4	Magnolia	Magnolia sep.	9+ 7+ 7= 23	60	1	3-5	Multi-stem tree from the base. Tree has been previously lopped with regenerated teaders, The caropy has some small deadwood. Garbage and recycling area installation will enter the TPZ of the tree	Retain Install a tree barrier 1.50m from the tree. Arborst supervision recommended for garbage and recycling area installation or landscaping that enters the TPZ	1.

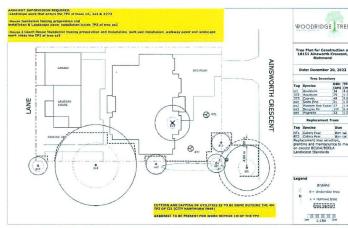


DIAGRAM FROM ARBORIST REPORT Scale: NTS

DP 22-019430 Plan #7

GENERAL TREE NOTES

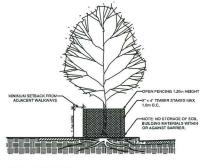
- Any permitted tree removal(s) must be performed by a qualified professional.
 No grade changes are to occur within the critical root zones of any
- retained trees. Any exposed roots from lines of excavation must be covered with burlap and then poly plastic in an effort to prevent dessication of exposed roots; this root curtain must be removed prior to backfilling.
- Trees must be adquately watered during the entire construction process.

 3. The removal of existing organics within the critical root zones of retained trees must be performed manually, when installing new plant material within the critical root zones of retained trees, if large roots (1,5' diameter and larger) are encountered, then new plantings must be shifted to accommodate. No more than 3" of additional soil for new landscaping may
- accommodate, no more than 3 or additional soil for new landscaping mabe added within any critical root zone.

 4. Any excavation work or work within the protection zone of retained trees requires the supervision of a certified arborist. This includes, but is not limited to; demolition, the installation of any permeable or impermeable surfaces (concrete, asphalt, pavers, etc.), installation of permanent or surfaces (concrele, asphalt, pavers, etc.), installation of permanent or temporary services (gas, sewer, storm, sanitary, communication, electrical, irrigation, etc.), during the installation of patios, driveways, or any hardscape, during the installation of footings for fences, walls, decorative walls, retaining walls, decks, and deck footings.

 5. Construction materials must not be stored within the tree protection zone (TPZ) of trees to be retained, and TPZ fencing to remain intact for the entire construction process. Signage must be clearly posted on each side of the barrier indicating 'Tree protection zone-Do not enter of modify'. Contact your project arborist for any TPZ barrier issues.

 6. Refer to arborist report and drawing, Prepared by Davey resource group,
- Refer to arborist report and drawing, Prepared by Davey resource group, Dated January 31, 2022. Refer to and coordinate with other project drawings.



REEP	ROTECTIO	ON DISTANCE TABLE
TRUNK I	PT	MINIMUM DISTANCE FROM TRUNK (METERS
20	0.0	1.2
25	0.8	1.5
35	1,0	2.1
40	12	LA.
45	1,3	D.
50	1.5	3,0
95	1.7	33
60	2.0	3.6
75	2.5	4,5
90	3,0	5,0
100	3.3	5.0

TREE PROTECTION BARRIER

ONSITE TREE SUMMARY

TREES REMOVED

TREES PLANTED

REFER TO ARBORIST REPORT BY WOODBRIDGE TREE CONSULTING ARBORIST, UPDATED DEC. 20, 2022

٥.	Date	Issue/Revision Notes
	1/8/2023	FOR COORDINATION
ı	1/11/2023	SUBMIT FOR BP
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SW LANDSCAPE ARCHITECT 19 MELBOURNE AVENUE, NORTH VANCOU

HARK RANA

RANA RESIDENCE 10151 AINSWORTH CRESCENT RICHMOND, BC

TREE MANAGEMENT

STEVE WONG	Preject #D 2022=36
SW	AS NOTED
DECEMBER 2022	L-3
ADFILHER	5

