6 STOREY APARTMENT DEVELOPMENT

5302 200 ST., 20011/20021/20031 53 AVE. AND 20030 53A AVE. LANGLEY, B.C.



CONTACT LIST:

OWNER:

RED CARDINAL HOMES 2021 INC.

378 - 8148 128TH STREET SURREY, B.C. V3W 1R1 TEL: 604 512 0329

LANDSCAPE ARCHITECT:

MARUYAMA & ASSOCIATES

680 C LEG IN BOOT SQUARE VANCOUVER, B.C. V5Z 4B4 PH: 604 874 9967

ARCHITECT:

F. ADAB ARCHITECTS INC.

130 - 1000 ROOSEVELT CRESCENT NORTH VANCOUVER, B.C. V7P 3R4 TEL: 604 987 3003

ELECTRICAL ENGINEER:

NEMETZ & ASSOCIATES

2009 WEST 4TH AVENUE VANCOUVER, B.C. V6J 1N3 TEL: 604 736 6562

SURVEYOR:

CAMERON LAND SURVEYING LTD

234 - 18525 53RD AVE SURREY, B.C.V3S 7A4 TEL: 604 597 3777

CODE CONSULTANT:

NOVEN CONSULTING INC.

460 - 688 WEST HASTINGS STREET VANCOUVER, B.C. V6B 1P1 TEL : 604 757 0610

CIVIL ENGINEER:

CENTRAS ENGINEERING LTD.

218 - 2630 Croydon Drive, Surrey, BC V3S 6T3 TEL: 604-782-6927

CPTED CONSULTANT:

TESSERACT SECURITY INC

504 - 1111 HARO STREET VANCOUVER, B.C. V6E 1E3 TEL: 604 731 0610

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1	DEC 05-21	ISSUED FOR CITY'S REVIEW
NO.	DATE	REVISION/ ISSUED

PROJECT TITLE

53&200 ST. APARTMENT LANGLEY, B.C.

FOR:

RED CARDINAL HOMES 378 8148 128TG STREET

SURREY B.C. V3W 1R1

DRAWING TITLE:

COVER PAGE INDEX AND CONTACT LIST

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	1 4 0
DRAWN;	KXW	A-1.0

PROJECT STATISTICS

LEGAL DESCRIPTION:

LOTS 315, 314, 313, 312, & 301 DISTRICT LOT 305, GROUP 2, NEW WESTMINSTER DISTRICT, PLAN 42983

CIVIC ADDRESS:

5302 200 ST., 20011, 20021, 20031 53 AVE. AND 20030 53A AVE., LANGLEY, B.C.

ZONING:

EXISTING: RS1

PROPOSED: CD (BASED ON RM3)

SITE AREA:

2,932.3 SQ.M (31,564 SQ.FT) = 0.78 ACRE

DEDICATION:

- 2.6M ALONG 200 STREET
- 2.1M ALONG 53 AVENUE
- 5M CORNER TRUNCATION AT 200 ST. & 53 AVE.

DENSITY:

FAR ALLOWED : 2.1 (6,157.83M2/66,284 SQ.FT.) FAR PROPOSED : 2.1 (6,157.78M2/66,284 SQ.FT.)

LOT COVERAGE:

ALLOWED : 40% PROPOSED : 37.5%

BUILDING HEIGHT:

PROPOSED : 6 STOREY/20,74M

	PARK	ING CLACULATION
		1.0 STALL/STUDIO UNITS (1*1=1 STALLS)
		1.0 STALL/1-BED UNITS (1*44=44 STALLS)
	REQUIRED	1.25 STALL/2-BED UNITS (1.25*34=42.5STALLS)
RESIDENTIAL		1.45 STALL/3-BED UNITS (1.45*5=7.3 STALLS)
		TOTALL. : 94.8 STALLS
	PROVIDED	95 STALLS (21 SMALL CAR)
ELECTRIC CAR	REQUIRED	10% x 84 = 8.4
CHARGING STATIONS	PROVIDED	20 (24%, 7 SMALL CAR)
RESIDENTIAL	REQUIRED	0.15/PER UNITS (0.15*84=12.6)
VISITORS	PROVIDED	13
ACCESSIBLE	REQUIRED	5% x94.8 + 5%x12.6 = 4.74 + 0.63
STALLS	PROVIDED	5 + 1 = 6

BICYCLE STALLS					
REQUIRED 0.5 STALL/UNIT (84/2=42 STALLS) 6 STALLS FOR VISI					
PROVIDED	42 STALLS	6 STALLS			

INDOOR AMENITY				
REQUIRED	2.3 SQM/UNIT 84X2.3=193.2 SQM			
PROVIDED	2079 SQ.FT. (193.2 SQM)			

STORAGE LOCKERS						
REQUIRED	1/UNITS	84				
PROVIDED	1/UNITS	84				

SETBACKS					
	FIRST FLOOR	SECOND FLOOR	THIRD-FIFTH FLOOR	SIXTH FLOOR	
	PROVIDED (Average)	PROVIDED (Average)	PROVIDED (Average)	PROVIDED (Average)	
EAST (NEIGHBOUR)	6.0 M	6.0 M	6.0 M	6.0 M	
SOUTH (53 AVE.)	4.5 M	4.5 M	4.8 M	6.5M	
WEST (200 ST.)	4.5 M	4.5 M	4.5 M	4.5M	
NORTH (NEIGHBOUR)	6.0M	6.0M	6.0M	6.0M	



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NO.	DATE	REVISION/ ISSUED

PROJECT TITLE:

53&200 ST. APARTMENT LANGLEY, B.C.

FOR:

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

RAWING TITLE:

PROJECT STATISTICS

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7
DRAWN:	KXW	7A-1.1
PROJECT N	iO: 2201	

AREA AND FAR. CALCULATION						
RESIDENTIAL	NET FLOOR AREA	INCLUSIONS	GROSS FLOOR AREA	FSR AREA		
RESIDENTIAL	(SQ.FT.)	(INDOOR AMENITY)	(SQ.FT.)	(SQ.FT.)		
1ST FLOOR	9,025	2,079	11,104	11,104		
2ND FLOOR	11,387	0	11,387	11,387		
3RD FLOOR	11,387	0	11,387	11,387		
4TH FLOOR	11,387	0	11,387	11,387		
5TH FLOOR	11,387	0	11,387	11,387		
6TH FLOOR	9,632	0	9,632	9,632		
TOTAL	64.205	2.079	66,284	66,284		
TOTAL	04,203	2,079	00,284	(6,157.78 SQ.M.)		

FLOOR AREA RATIO (FAR):

66,284/31,564=**2.1**

	UNIT MIX						
UNIT TYPE	NO. OF BED RM.	AREA	1ST FLOOR	2ND-5TH FLOOR	6TH FLOOR	TOTAL NO. OF UNITS	TOAL AREA (SQ.FT.)
S	STUDIO	363		1		1	363
Α	1+FLEX	579	5	20		25	14475
A1	1+FLEX	582	1	4	1	6	3492
A2	1+FLEX	642		3	1	4	2568
A2a	1+FLEX	586		1		1	586
A3	1	411		4	1	5	2055
A4	1	509			2	2	1018
A5	1	521			1	1	521
B*	2	773	2	8	2	12	9276
B1	2	737	1	4		5	3685
B2	2	818		4		4	3272
B3	2	741	1	4		5	3705
B4	2	617		4		4	2468
B5*	2	756	1			1	756
B6	2	865			1	1	865
B7	2	781			1	1	781
B8	2	739		1		1	739
C*	3	1057		3		3	3171
C1*	3	971			1	1	971
C2	3	1039			1	1	1039
TOTAL AREA			11	61	12	84	55806
NOTE:		UNIT E	3, B5, C AND	C1 ARE 17	ADAPTABLE	UNITS, 20% OF TATAL 8	4 UNITS

TYPE OF UNIT	NUMBER OF UNITS	% OF UNITS
STUDIO	1	1%
1-BED ROOM	8	10%
1-BR + FLEX	36	42%
2-BED ROOM	34	41%
3-BED ROOM	5	6%
TOTAL NUMBER OF UNITS	84	100%



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PROJECT TITLE:

53&200 ST. APARTMENT LANGLEY, B.C.

FOR:

RED CARDINAL HOMES
378 8148 128TG STREET
SURREY B.C. V3W 1R1

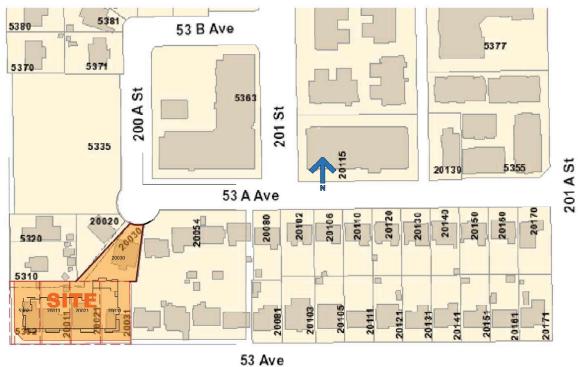
DRAWING TITLE:

PROJECT STATISTICS

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7, , ,
DRAWN:	KXW	∠.۱.⊿
PROJECT N	O: 2201	7

CONTEXT PLAN











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53&200 ST. APARTMENT LANGLEY, B.C.

FOR

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

CONTEXT PLAN

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7,43
DRAWN:	KXW	7A-1.3
PROJECT N	VO: 2201	7

AERIAL MAP





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FOR:

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

AERIAL MAP

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7 ^ 4 4
DRAWN:	KXW	7A-1.4
PROJECT N	O: 2201	7

AERIAL MAP - CONTEXT PHOTOS















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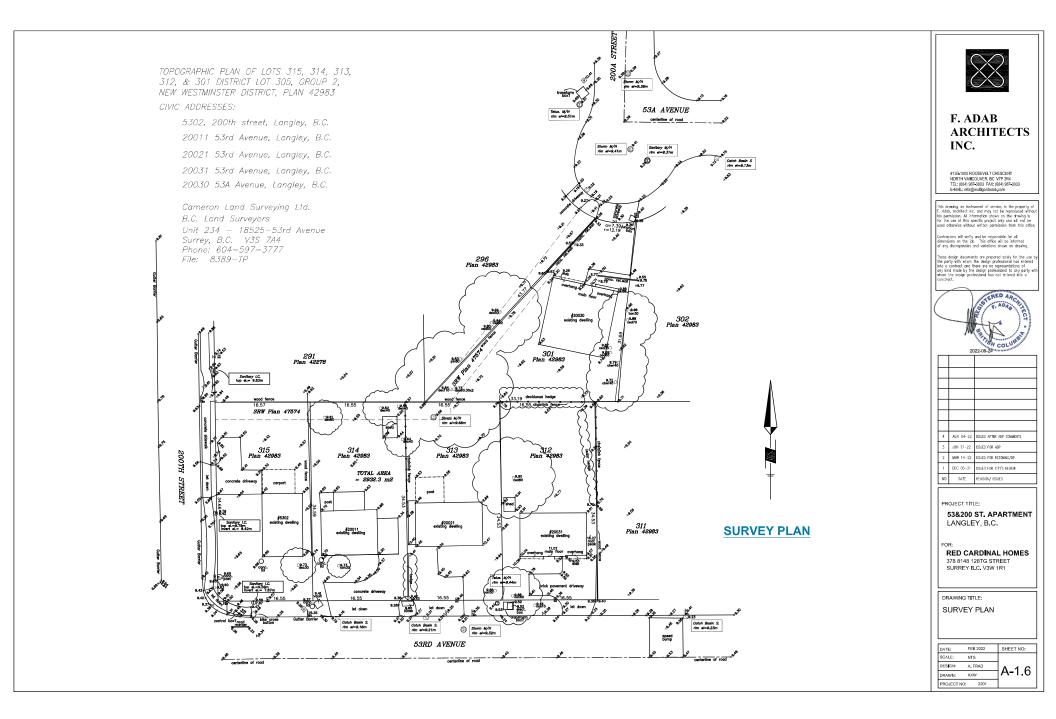
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RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE

AERIAL MAP

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7,46
DRAWN:	KXW	7A-1.5







PERSPECTIVE VIEW FROM SOUTH-WEST CORNER(200 ST. AND 53 AVE.)



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53&200 ST. APARTMENT LANGLEY, B.C.

FOR

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

PERSPECTIVE VIEW

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN;	A. FRAD	7 4 4 6
DRAWN:	KXW	7 A-1 0
PROJECT N	D: 2201	1



PERSPECTIVE VIEW FROM SOUTH-EASTCORNER ON 53 AVENUE



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PROJECT TITLE:

53&200 ST. APARTMENT LANGLEY, B.C.

FOR

RED CARDINAL HOMES
378 8148 128TG STREET
SURREY B.C. V3W 1R1

DRAWING TITLE:

PERSPECTIVE VIEW

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7 4 4 0
DRAWN:	KXW	⊣A-1.9
PROJECT N	Or 2201	7



BIRD-EYE VIEW FROM NORTH-WEST CORNER OVER 200 STEET



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53&200 ST. APARTMENT LANGLEY, B.C.

FOR

RED CARDINAL HOMES
378 8148 128TG STREET
SURREY B.C. V3W 1R1

DRAWING TITLE:

PERSPECTIVE VIEW

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7, , , ,
DRAWN:	KXW	¬A-1.1∪
PROJECT N	in 2201	



SOUTH ELEVATION (53 AVENUE)



NORTH ELEVATION



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PROJECT TITLE

53&200 ST. APARTMENT LANGLEY, B.C.

FOF

RED CARDINAL HOMES
378 8148 128TG STREET
SURREY B.C. V3W 1R1

DRAWING TITLE:

COLOR ELEVATION

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	\neg \wedge \wedge \wedge \wedge
DRAWN:	KXW	¬A-1.11
PROJECT N	O: 2201	



WEST ELEVATION (200 STREET)



EAST ELEVATION



F. ADAB ARCHITECTS INC.

#130-1000 ROOSEVELT CRESCENT MORTH VANCOUVER, BC V7P 3R4 TEL: (604) 987-3003 FAX: (604) 987-3033 E-MAIL: mfa@multigonfadab.com

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FOR

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

COLOR ELEVATION

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	7, , , ,
DRAWN:	KKW	¬A-1.1∠
PROJECT N	IO: 2201	

Design Rationale /Statement of Intent

Introduction

This design rationale is to be read as part of a rezoning and development application for a 6 storey apartment building with 2 levels of underground parking at the corner of 200 Street and 53 Avenue.

For detailed information refer to the architectural, landscape, civil drawings, renderings and other related documents.

Site Characteristics and Context

The site is almost flat and is presently occupied with 5 single family houses. one lots is facing 200 Street, 3 lots are facing 53 Avenue and one lot is facing 53A Avenue. The total area of the site is 2932.3 square meter or 31,564 square feet.

There is 2,6-meter dedication along 200 Street and 2.1-meter dedication along 53 Avenue. There is also 5.0-meter corner cut at the intersection of 200 Street and 53 Avenue.

There is a 3-meter existing storm right of way "ROW" along the north property line.

The proposed development seeks rezoning from RS1 to CD, based on RM3.

The setbacks, floor area ratio, height, site coverage, number of parking, bicycle storage, garbage recycling, electrical car park and adaptable unit ratios are all in accordance with the provisions of the zoning by law and the OCP.

Proposed development contains 84 units introducing different types of suites, ranging from one to three bedrooms. Type and mix of the units provide a variety of accommodations which cater to different categories of home owners.

The unit mixes and the approximate areas of each type range from:

- 1 studio unit with a floor area of 363 sq.ft.
- 8 one bedrooms with an average area of 500 sq.ft.
- 36 one bedrooms plus flex with an average area of 580 sq.ft.
- 34 two bedrooms with an average area of 760 sq.ft.
- 5 three bedrooms with an average area of 1,030 sq.ft.

Indoor and outdoor amenities are provided at the ground floor.

The main entry to the lobby is provided from 53 Avenue and entry to the parking is provided from 53A Avenue.

Orientation, Massing, Building Form and Character

Massing orientation responds to the site setting and faces three streets. The proposed massing has frontages on every street resulting in the creation of a L shape building. The main lobby is located at the centre of the building on 53 Avenue. This entry is identifiable with a high arch expressing a stronger architectural identity and articulation.

The building is raised by approximately 4'6" from the street creating a podium with large private decks and planters for the residence. Stairs are provided from the street to the large raised decks offering a vibrant and lively presence at the street and the public realm.

A second planter is introduced 2'.0 above grade to break the height of the parking structure and provide space for additional landscaping. By setting the parking structure back from the property lines and introducing enhanced landscaping at the perimeter of the building, as well as in the central courtyard, provides visual stimuli, creating a multitude of points of interest which enrich the experience of the observer.

A variety of architectural forms and material are incorporated into the design including corner windows, bay windows and high ceilings create increased transparency and improved quality of living.

The façade is organized with emphasizing a horizontal base and vertical articulations. This is reinforced by projecting bay windows from first to fifth floor. The 6th floor is recessed considerably softening the edge of the building at the top. This concept also creates generous terraces for the larger suites on the 6th floor.

Entry to the U/G parking is from 53A Avenue through a ramp along the east property line. Loading bay is at the rear of the building next to the ramp. The loading bay has direct access to the lobby and the elevator.

Indoor and outdoor amenities are provided at the rear courtyard next to each other. Indoor amenity includes a gym, multi purpose room, kitchen and accessible washroom.



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1	DEC 05-21	ISSUED FOR CITY'S REVIEW
NO.	DATE	REVISION/ ISSUED

ROJECT TITLE:

53&200 ST. APARTMENT LANGLEY, B.C.

FOR:

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

DESIGN RATIONAL

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	A 4 42
DRAWN:	KXW	7A-1.13
PROJECT N	IO: 2201	

Livability / Energy Saving Measures

Where possible, operable windows are located on opposite walls to draw ventilation across the occupied spaces. Overhangs are provided at the roof level and at intermediate locations as shading devices.

Glazing is provided in all doors and walls of the elevator vestibules, bicycle storage rooms and lockers.

Most of the units are located in a manner that takes advantage of solar orientation and maximizes daylight in the suites. Oversized windows offer plenty of natural daylight.

The balconies and ground floor patios encourage the outdoor presence of the people that provides "eyes on street" and security for the private and public spaces..

The use of a high performance building envelope, energy efficient mechanical systems will exceed the new energy code and comply with ASHRAE 90, 2010.

All units have bike storage. 10 EV stations and 6 accessible parking stalls are provided.

Sustainability and Green Measures.

Many green building strategies have been incorporated into the project design. Summary of the measures include:

The site is located within the urban fabric of the City, close to public transportation and amenities. This location is designate as shoulder area in the new OCP.

Proposed development offers diverse unit types and sizes for small and large families..

All units have large private patios at grade or deck / balconies on the upper floors that contribute to the livability of the units and create a family-oriented environment.

Water efficient fixtures, energy efficient appliances and drought tolerant plants will be used to minimize the use of potable water.

Selection of materials is focused on durability and sustainability with the use of building materials that have high amounts of recycled content and are from local sources. Low emission adhesive paint and flooring will also be used throughout the units.

Green roof reduces the solar intensity and provides increased insulation. It also reduces the rate of storm run off from the site.

Common areas including the underground parking use energy efficient lighting with motion activated control systems that shut down lights when no one is present.

Enhanced landscaping is provided along the parking structure and the rear courtyard.



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53&200 ST. APARTMENT LANGLEY, B.C.

OR:

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

DESIGN RATIONAL

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Crime Prevention Through Environmental Design "CPTED"

The rationale behind the CPTED strategy follows the principle standard measures for a typical residential development over UG parking. These provisions are aimed to enhance safety and strengthen the perception of security.

The proposed CPTED measures fall into the categories below:

- Create Identifiable secured entries to the lobby, visitor parking courtyard and underground parking.
- All units at grade are raised above the street and have identifiable private patios. This feature, along with the presence of the balconies on the upper floors, creates a clear definition of hierarchy of space, a sense of territorial identity.
- The space in front and rear of the building is controlled by residents as well as cameras. The windows and the balconies along the streets ensure the presence of observers, which provide "eyes on the street" and security for the private and public spaces. Cameras will be installed at the main entry, and lobby, elevator cabs, and waiting areas, emergency exit stairs and parking entry gates.
- Provision for adequate lighting at the central courtyard as well as patio lighting.
- Landscaping, plants, and fences are designed in a manner that they are easily maintained and controlled to prevent graffiti and damages. The Strata Corporation should implement a maintenance manual.
- The simplicity of the massing and its orientation offers an open space environment visible from every angle with no enclave or semi enclosed spaces for strangers and wandering people.

- Lighting will be provided above the cars as well as aisles.
- UG parking walls will be painted white.
- Glazing is provided on all doors and walls of the elevator vestibules.
- Exit doors have hardware that prevents access to the parking.
- Lockers and storage units have glazed doors and windows where possible.
- Convex mirrors will be installed in spaces as required.
- Lobbies and exits are marked with proper signage.
- Parking entrance is secured with a sectional overhead door security gate that is activated by remote control.
- Visitor parking is separated from the residential parking to avoid the possible unwanted entry to the private spaces.



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PROJECT TITLE:

53&200 ST. APARTMENT LANGLEY, B.C.

FOR:

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

DESIGN RATIONAL

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DESIGN:	A. FRAD	7 A A A E
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Material and Colour

The selection of exterior finishes incorporates enhanced durability / longevity of construction materials and envisions a sustainable approach.

A variety of building material is used with emphasis on light sandy brick on the main facades, light and dark grey hardy panels and hardy siding. Colours and materials have been organized in manner to create harmony and connectivity throughout the building

Widows and railings are black colour and spandrel at corner windows are the same colour as window frames.



SOUTH ELEVATION(53 AVENUE)

Exterior Finishes



BRICK VENEER: CHAMPAGNE VELOUR BY IXL



HARDIE PANEL/SIDING: SW 7018,

SW 7018, DOVETAIL





ALUMINUM RAILING/ WINDOW FRAME: MAT BLACK





6

SOFFITS:SAGIPER PVC REF. 10
CHERRY ZEBRAWOOD



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53&200 ST. APARTMENT LANGLEY, B.C.

FOR:

RED CARDINAL HOMES 378 8148 128TG STREET SURREY B.C. V3W 1R1

DRAWING TITLE:

DESIGN RATIONAL MATERIAL AND COLOR

DATE:	FEB 2022	SHEET NO:
SCALE:	N/A	
DESIGN:	A. FRAD	A 4 4C
DRAWN:	KXW	A-1.16
PROJECT NO	D: 2201	

SHADOW ANALYSIS ON MARCH 21ST



9:00 A.M.



12:00 P.M.



3:00 P.M.



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PROJECT TITLE:

53&200 ST. APARTMENT LANGLEY, B.C.

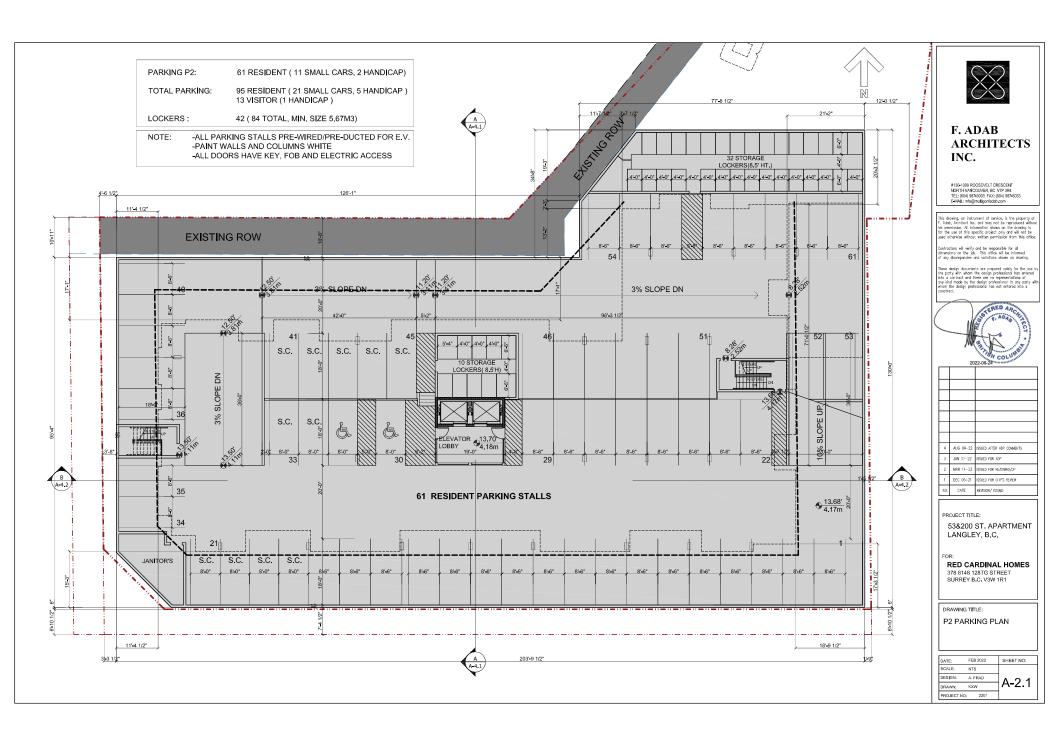
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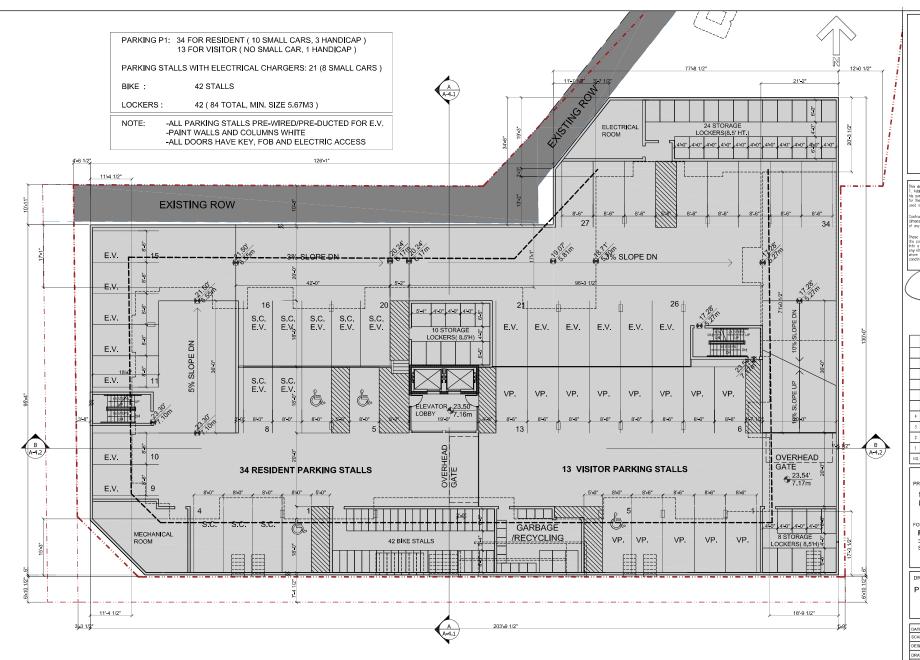
RED CARDINAL HOMES
378 8148 128TG STREET
SURREY B.C. V3W 1R1

DRAWING TITLE:

SHADOW ANALYSIS ON MARCH 21ST

DATE:	FEB 2022	SHEET NO:
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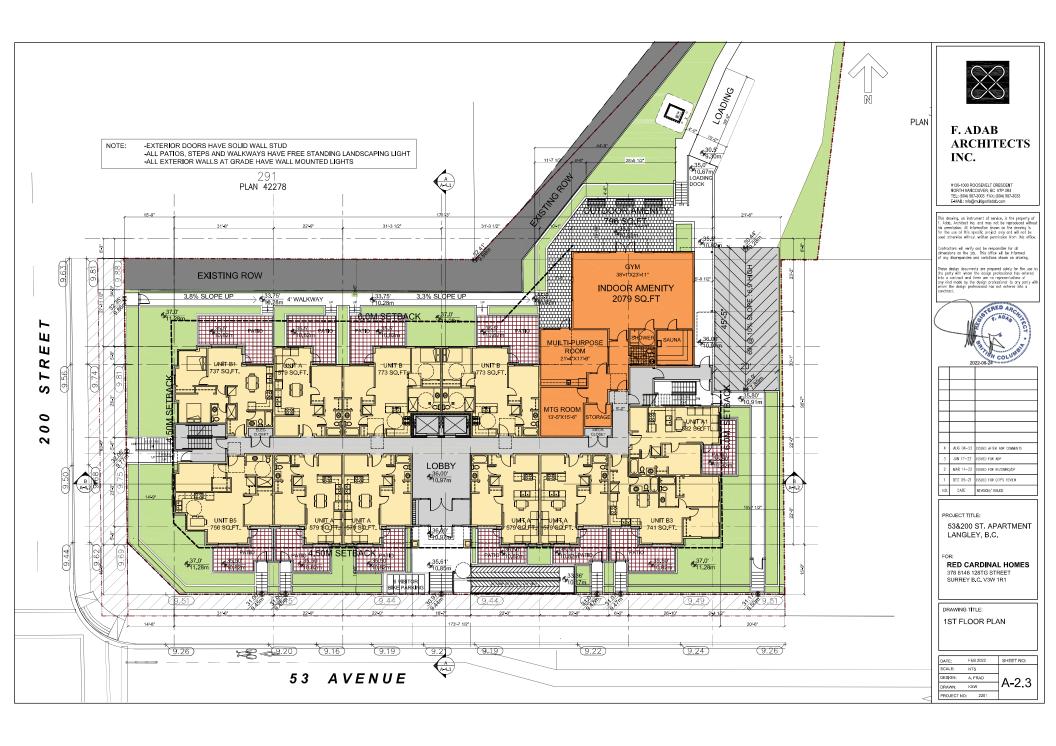
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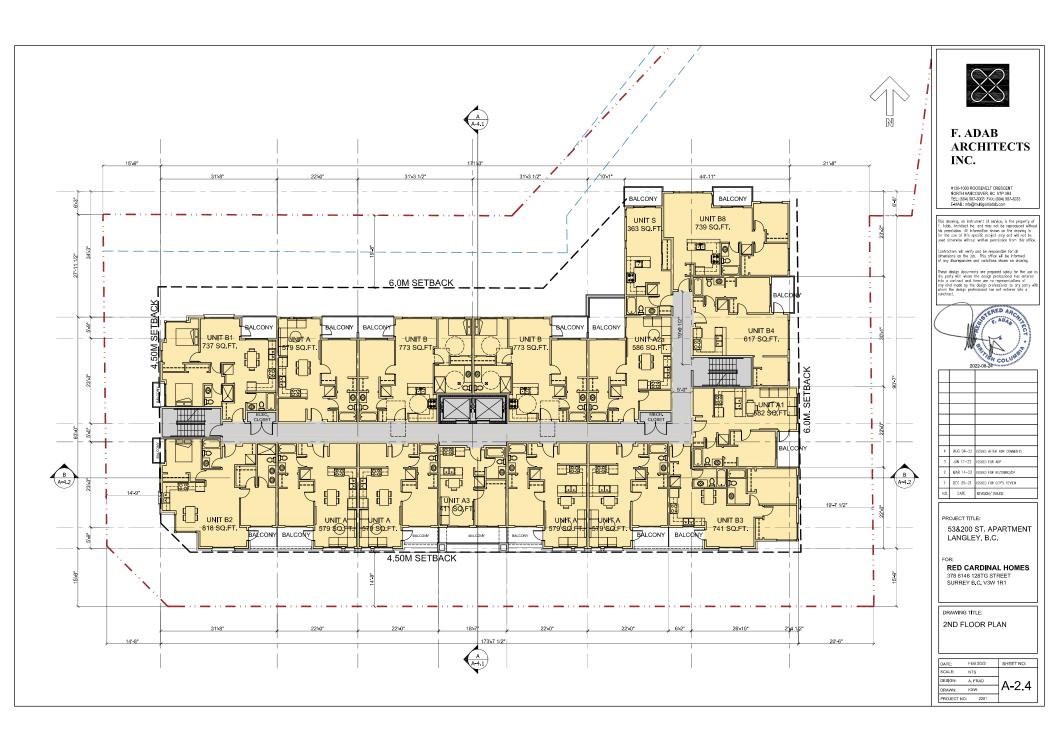
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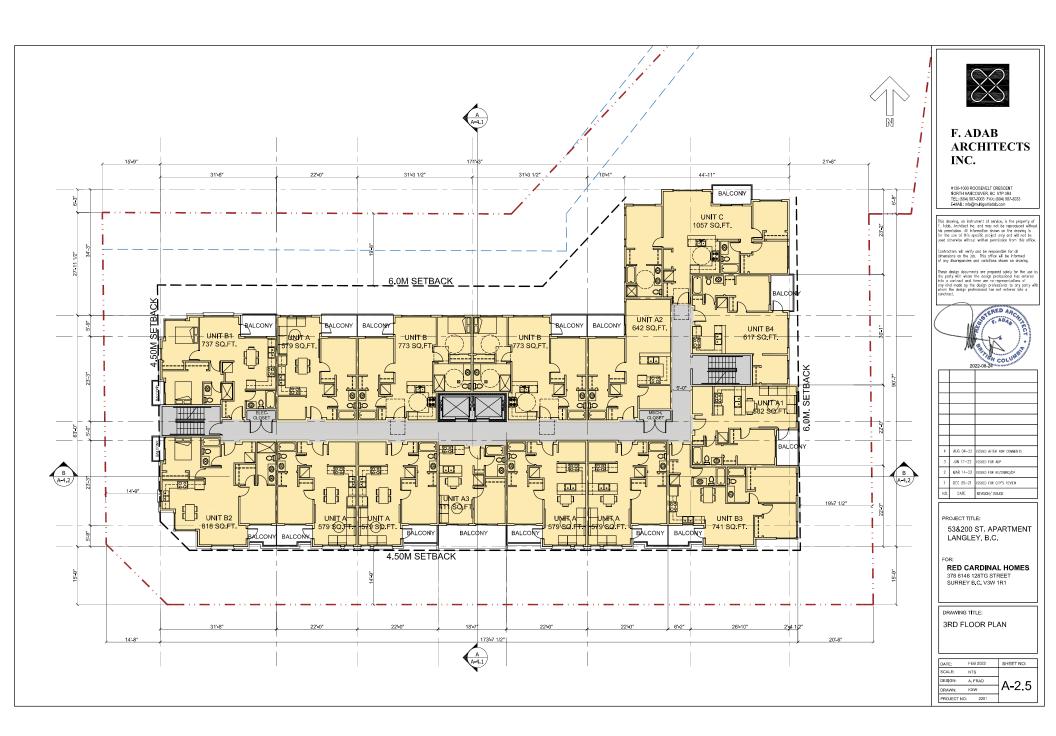
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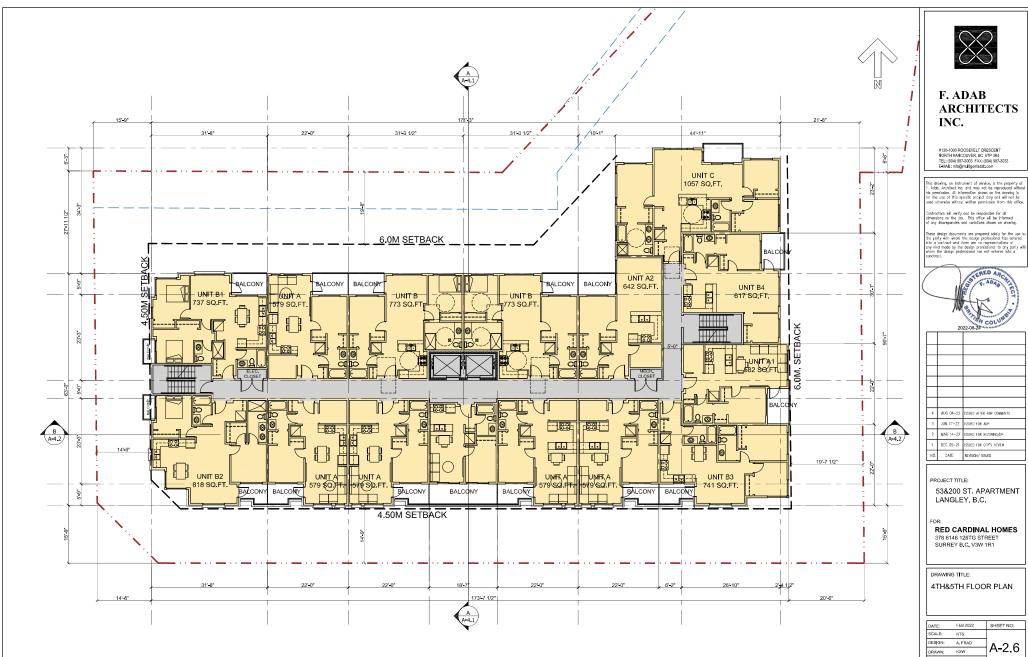
P1 PARKING PLAN

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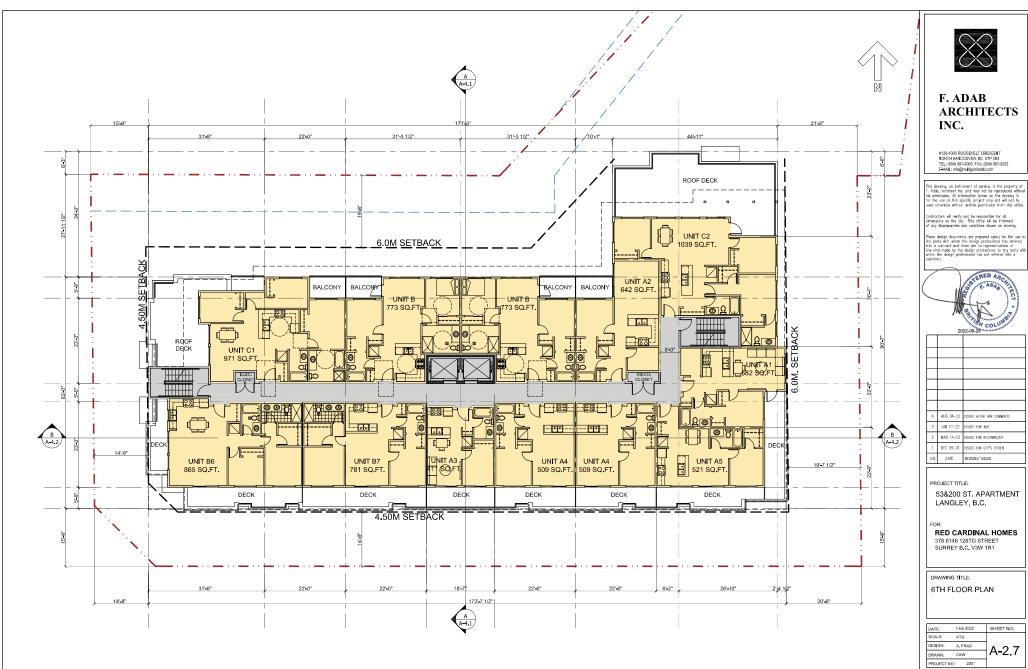




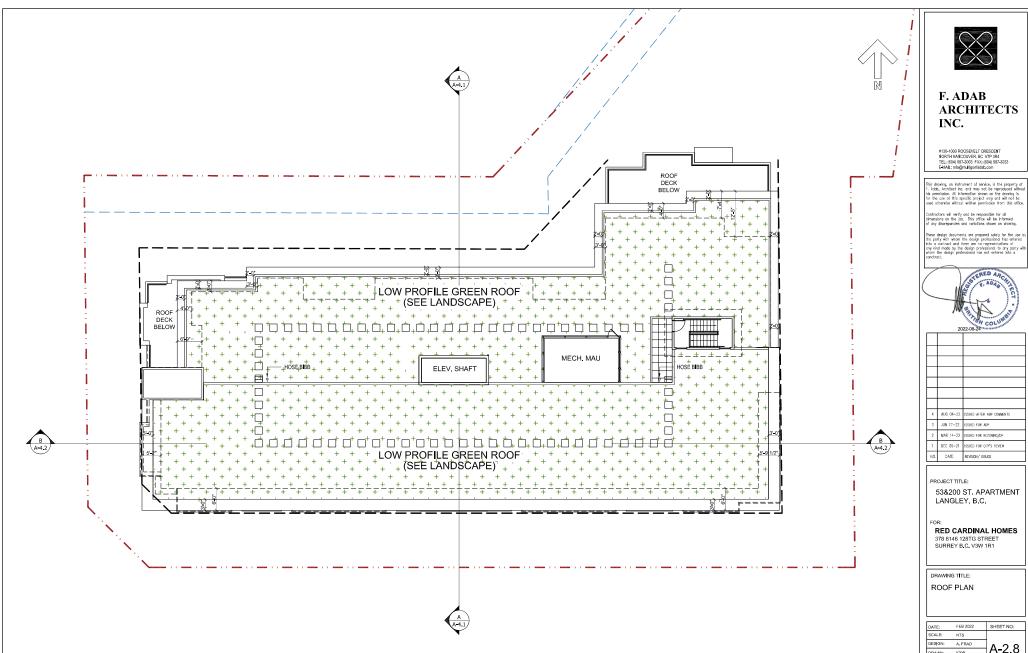




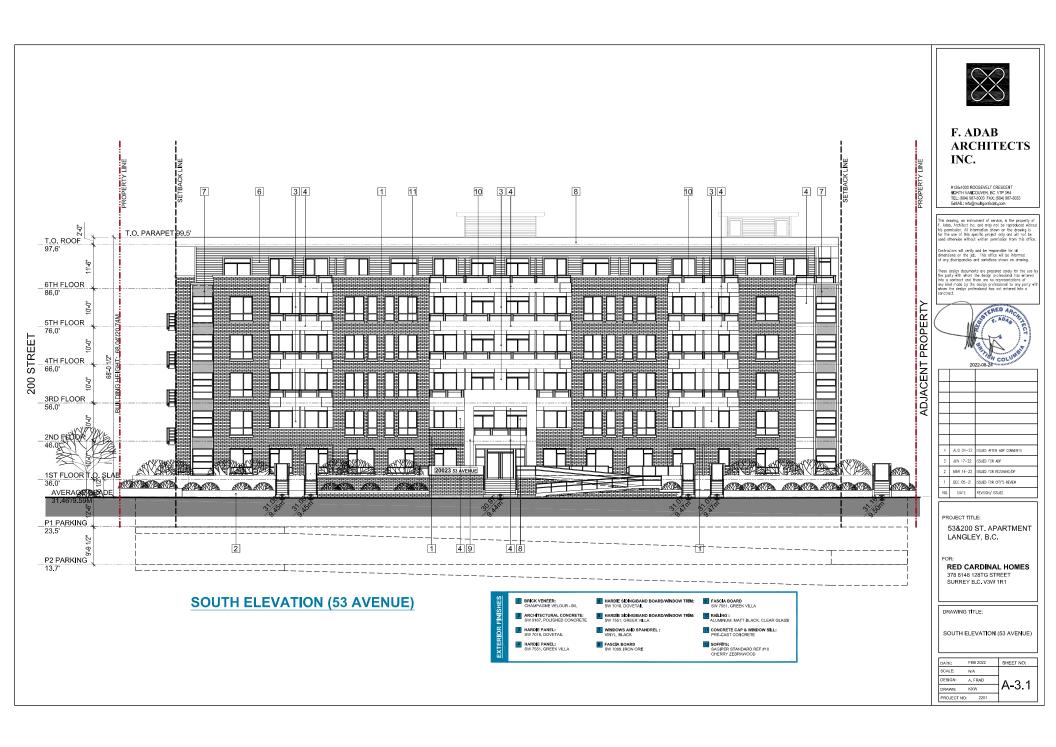
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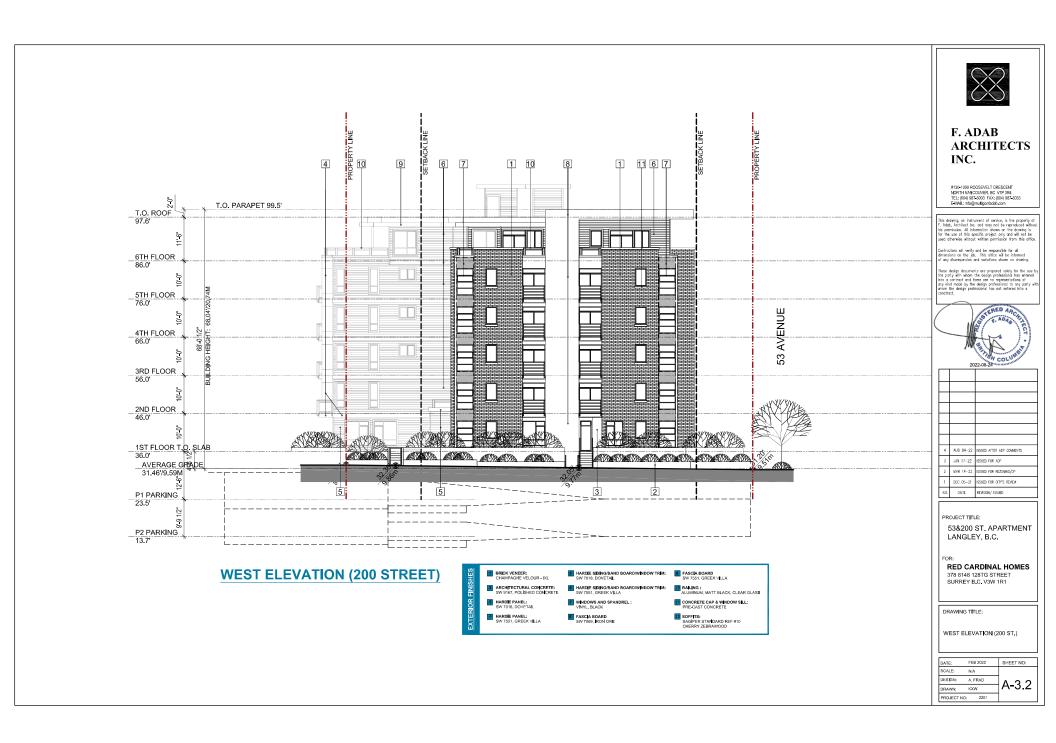


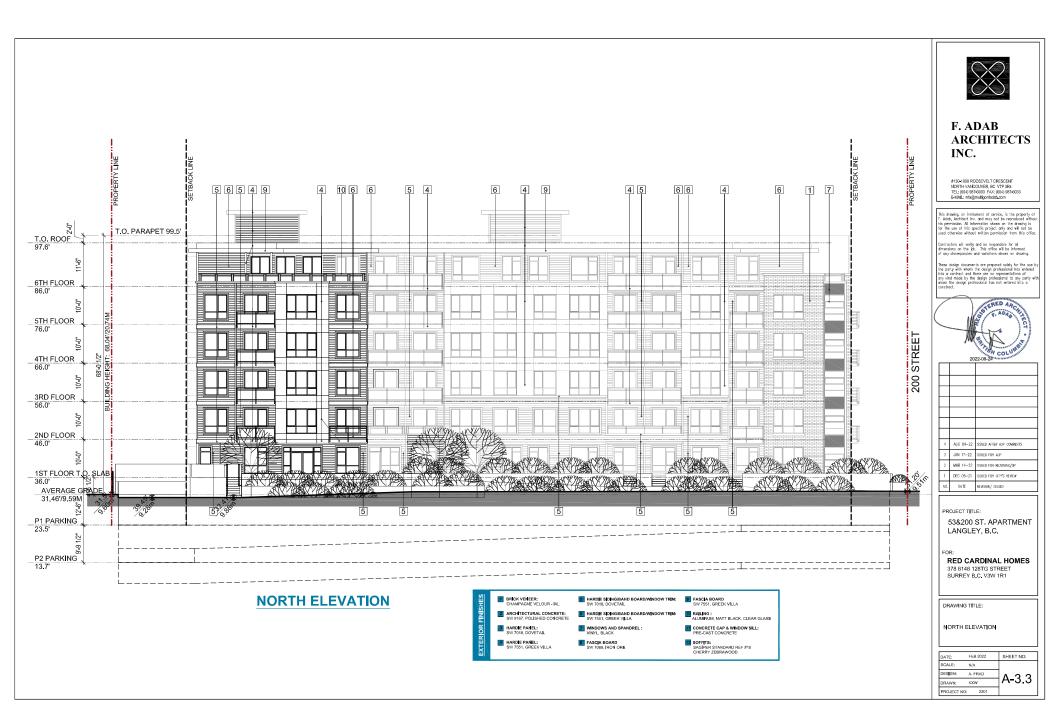
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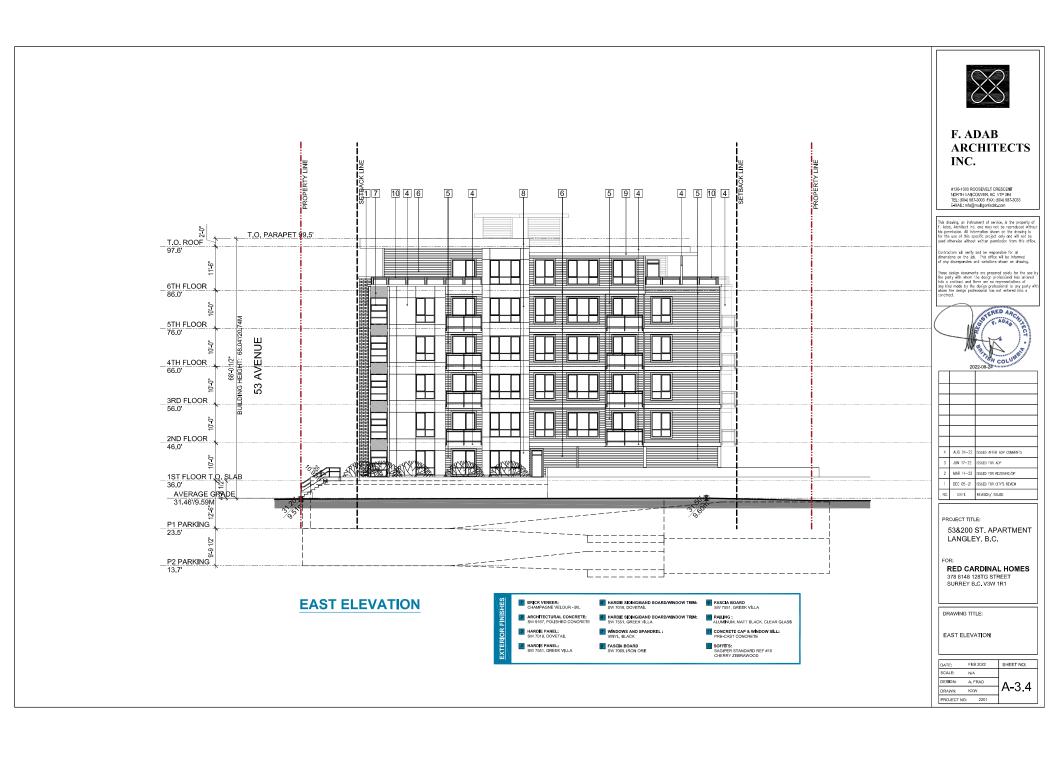


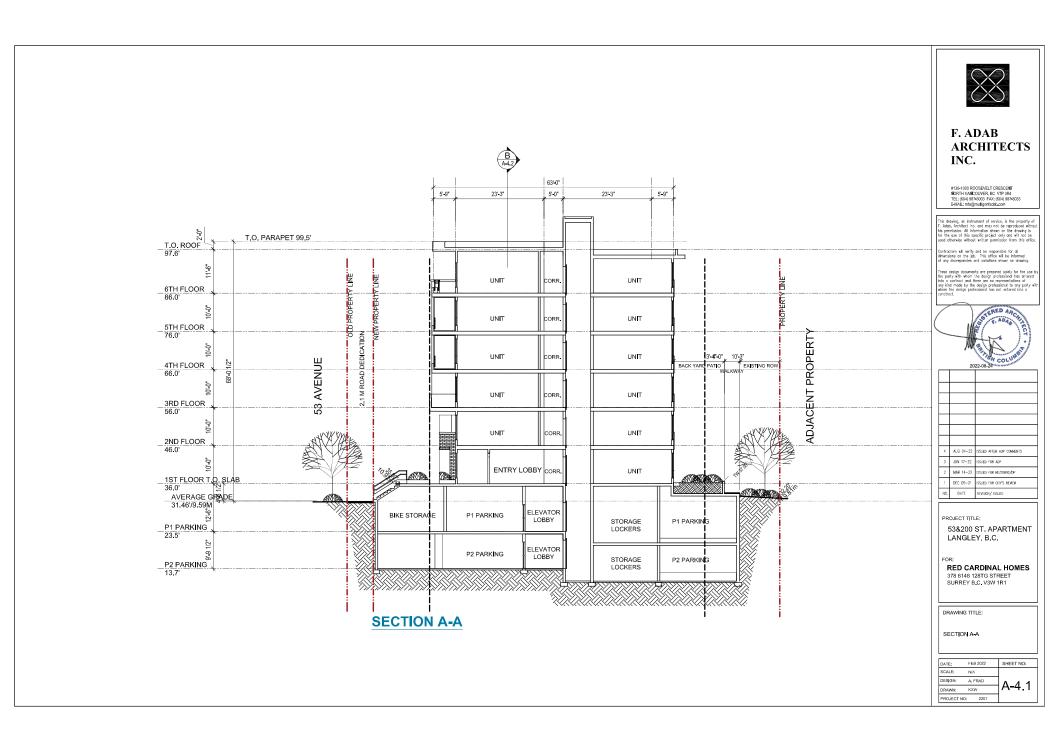
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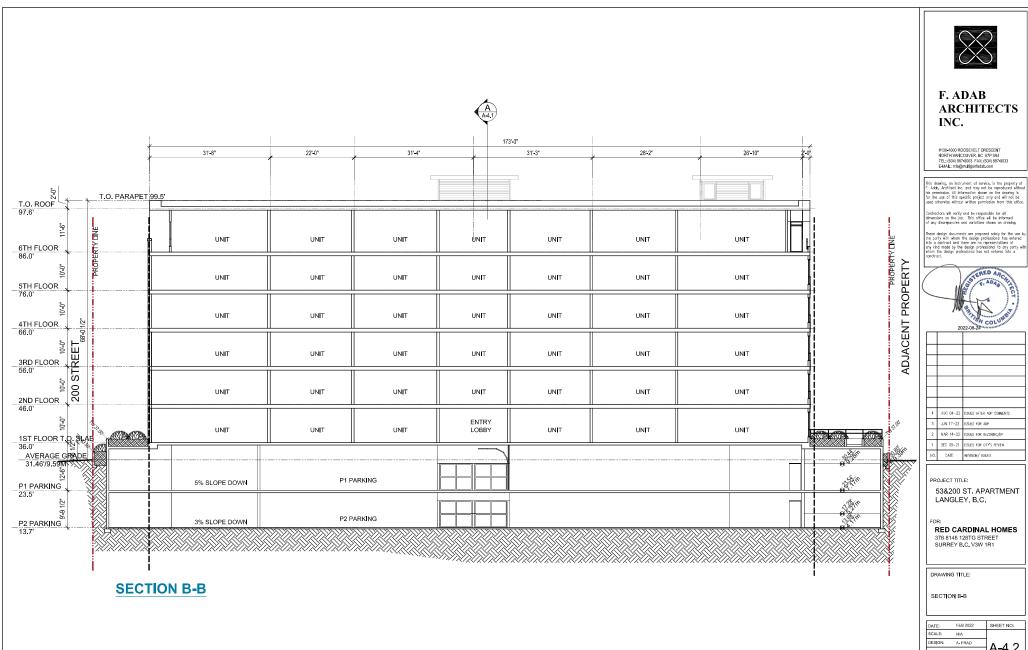












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