Development Permit & Development Variance Permit DP18-0042/DVP18-0043



This permit relates to land in the City of Kelowna municipally known as

1931 Union Road

and legally known as

Lot 9 Section 4 Township 23 Osoyoos Division Yale District Plan KAP52773

and permits the land to be used for the following development:

Multiple Dwelling Housing

With variances to the following section of Zoning Bylaw No. 8000

Section 13.8.6(b): RM2 - Low Density Row Housing Housing Development Regulations

To vary the required maximum site coverage of buildings, driveways and parking areas from 60 % permitted to 69 % proposed.

The present owner and any subsequent owner of the above described land must comply with any attached terms and conditions.

<u>Date of Decision:</u> June 12, 2018

<u>Decision By:</u> City Council

<u>Issued Date:</u> June 12, 2018

<u>Development Permit Area:</u> Comprehensive Development Permit Area

This permit will not be valid if development has not commenced by June 12, 2020.

Existing Zone: RM2 – Low Density Row Housing Future Land Use Designation: MRL – Multiple Unit Residential (Low Density)

This is NOT a Building Permit.

In addition to your Development Permit, a Building Permit may be required prior to any work commencing. For further information, contact the City of Kelowna, Development Services Branch.

NOTICE

This permit does not relieve the owner or the owner's authorized agent from full compliance with the requirements of any federal, provincial or other municipal legislation, or the terms and conditions of any easement, covenant, building scheme or agreement affecting the building or land.

Owner: Kirvi Construction Development Company Ltd., Inc. No. BCo640835

Applicant: Patrick McCusker Architecture Inc.

Ryan Smith Date
Community Planning Department Manager
Community Planning & Strategic Investments

1. SCOPE OF APPROVAL

This Development Permit applies to and only to those lands within the Municipality as described above, and any and all buildings, structures and other development thereon.

This Development Permit is issued subject to compliance with all of the Bylaws of the Municipality applicable thereto, except as specifically varied or supplemented by this permit, noted in the Terms and Conditions below.

The issuance of a permit limits the permit holder to be in strict compliance with regulations of the Zoning Bylaw and all other Bylaws unless specific variances have been authorized by the Development Permit. No implied variances from bylaw provisions shall be granted by virtue of drawing notations that are inconsistent with bylaw provisions and that may not have been identified as required Variances by the applicant or Municipal staff.

2. CONDITIONS OF APPROVAL

- a) The dimensions and siting of the building to be constructed on the land be in accordance with Schedule "A";
- b) The exterior design and finish of the building to be constructed on the land be in accordance with Schedule "B";
- c) Landscaping to be provided on the land be in accordance with Schedule "C"; and
- d) The applicant be required to post with the City a Landscape Performance Security deposit in the form of a "Letter of Credit" in the amount of 125% of the estimated value of the landscaping, as determined by a Registered Landscape Architect.

This Development Permit is valid for two (2) years from the date of Council approval, with no opportunity to extend.

3. PERFORMANCE SECURITY

As a condition of the issuance of this Permit, Council is holding the security set out below 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 Developer and be paid to the Developer or his or her designate if the security is returned. The condition of the posting of the security is that should the Developer fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the Municipality may use enter into an agreement with the property owner of the day to have the work carried out, and any surplus shall be paid over to the property own of the day. Should the Developer carry out the development permitted by this Permit within the time set out above, the security shall be returned to the Developer or his or her designate. There is filed accordingly:

a) An Irrevocable Letter of Credit in the amount of **\$TBD**

Before any bond or security required under this Permit is reduced or released, the Developer will provide the City with a statutory declaration certifying that all labour, material, workers' compensation and other taxes and costs have been paid.

4. INDEMNIFICATION

Upon commencement of the works authorized by this Permit the Developer covenants and agrees to save harmless and effectually indemnify the Municipality against:

a) All actions and proceedings, costs, damages, expenses, claims, and demands whatsoever and by whomsoever brought, by reason of the Municipality said Permit.

All costs, expenses, claims that may be incurred by the Municipality where the construction, engineering or other types of works as called for by the Permit results in damages to any property owned in whole or in part by the Municipality or which the Municipality by duty or custom is obliged, directly or indirectly in any way or to any degree, to construct, repair, or maintain.

The PERMIT HOLDER is the <u>CURRENT LAND OWNER</u>. Security shall <u>ONLY</u> be returned to the signatory of the Landscape Agreement or their designates.

DEVELOPMENT PERMIT GUIDELINES

<u>Comprehensive Development Permit Area</u>

Consideration has been given to the following guidelines as identified in Section 14. A. of the City of Kelowna Official Community Plan relating to Comprehensive Development Permit Areas:

COMPREHENSIVE DEVELOPMENT PERMIT AREA	YES	NO	N/A
Authenticity and Regional Expression			
Do landscaping and building form convey a character that is distinct to Kelowna and the Central Okanagan?	✓		
Are materials in keeping with the character of the region?	✓		
Are colours used common in the region's natural landscape?		√	
Does the design provide for a transition between the indoors and outdoors?	✓		
Context			•
Does the proposal maintain the established or envisioned architectural character of the neighbourhood?	✓		
Does interim development consider neighbouring properties designated for more intensive development?			✓
Are façade treatments facing residential areas attractive and context sensitive?	✓		
Are architectural elements aligned from one building to the next?	✓		
For exterior changes, is the original character of the building respected and enhanced?			✓
Is the design unique without visually dominating neighbouring buildings?	✓		
For developments with multiple buildings, is there a sense of architectural unity and cohesiveness?	✓		
Relationship to the Street			
Do buildings create the desired streetscape rhythm?	✓		
Are parkade entrances located at grade?	✓		
For buildings with multiple street frontages, is equal emphasis given to each frontage?	✓		
Massing and Height			
Does the design mitigate the actual and perceived mass of buildings?	✓		
Does the height consider shading and view impacts for neighbouring properties and transition to less intensive areas?	✓		
Human Scale			
Are architectural elements scaled for pedestrians?	✓		
Are façades articulated with indentations and projections?	✓		

COMPREHENSIVE DEVELOPMENT PERMIT AREA	YES	NO	N/A
Are top, middle and bottom building elements distinguished?	✓		
Do proposed buildings have an identifiable base, middle and top?	✓		
Are building facades designed with a balance of vertical and horizontal proportions?	✓		
Are horizontal glazed areas divided into vertically proportioned windows separated by mullions or building structures?	✓		
Does the design incorporate roof overhangs and the use of awnings, louvers, canopies and other window screening techniques?	✓		
Is the visual impact of enclosed elevator shafts reduced through architectural treatments?			✓
Exterior Elevations and Materials		I	ı
Are buildings finished with materials that are natural, local, durable and appropriate to the character of the development?	✓		
Are entrances visually prominent, accessible and recognizable?	✓		
Are higher quality materials continued around building corners or edges that are visible to the public?	✓		
Are a variety of materials used to create contrast, enhance the pedestrian environment and reduce the apparent mass of a building?		✓	
Are elements other than colour used as the dominant feature of a building?	✓		
Public and Private Open Space			
Does public open space promote interaction and movement through the site?			✓
Are public and private open spaces oriented to take advantage of and protect from the elements?		✓	
Is there an appropriate transition between public and private open spaces?	✓		
Are amenities such as benches, garbage receptacles, bicycle stands and community notice boards included on site?	✓		
Site Access			1
Is the safe and convenient movement of pedestrians prioritized?	✓		
Are alternative and active modes of transportation supported through the site design?	✓		
Are identifiable and well-lit pathways provided to front entrances?	✓		
Do paved surfaces provide visual interest?	✓		
Is parking located behind or inside buildings, or below grade?	✓		
Are large expanses of parking separated by landscaping or buildings?			✓
			1

COMPREHENSIVE DEVELOPMENT PERMIT AREA	YES	NO	N/A
Do vehicle and service accesses have minimal impact on the streetscape and public views?			√
Is visible and secure bicycle parking provided in new parking structures and parking lots?			✓
Environmental Design and Green Building			
Does the proposal consider solar gain and exposure?			✓
Are green walls or shade trees incorporated in the design?			✓
Does the site layout minimize stormwater runoff?			✓
Are sustainable construction methods and materials used in the project?			✓
Are green building strategies incorporated into the design?			✓
Decks, Balconies, Rooftops and Common Outdoor Amenity Space		•	
Are decks, balconies or common outdoor amenity spaces provided?	✓		
Does hard and soft landscaping enhance the usability of decks, balconies and outdoor amenity spaces?	✓		
Are large flat expanses of roof enhanced with texture, colour or landscaping where they are visible from above or adjacent properties?			√
Amenities, Ancillary Services and Utilities			
Are loading, garage, storage, utility and other ancillary services located away from public view?			√
Are vents, mechanical rooms / equipment and elevator penthouses integrated with the roof or screened with finishes compatible with the building's design?			✓
Landscape Development and Irrigation Water Conservation			•
Does landscaping:	-	-	-
Compliment and soften the building's architectural features and mitigate undesirable elements?	✓		
 Maintain the dominant pattern of landscaping along the street and surrounding properties? 	✓		
Enhance the pedestrian environment and the sense of personal safety?	√		
 Screen parking areas, mechanical functions, and garbage and recycling areas? 	✓		
Respect required sightlines from roadways and enhance public views?	√		
Retain existing healthy mature trees and vegetation?			√
Use native plants that are drought tolerant?	✓		
Define distinct private outdoor space for all ground-level dwellings?	✓		
Do any fences and retaining walls create visual interest and enhance the	√		

COMPREHENSIVE DEVELOPMENT PERMIT AREA	YES	NO	N/A
Do parking lots have one shade tree per four parking stalls?			✓
Does the Landscape Architect's Landscape Water Conservation Report:	-	-	-
Meet the requirements for Landscape Water Budget calculations for the landscaped area?	√		
Indicate how the development complies with or varies from the Landscape Water Conservation Guidelines?	✓		
Landscape Water Conservation Guidelines			
Are plants grouped into "hydro-zones" of high, medium and low or unirrigated / unwatered areas?	✓		
Does at least 25% of the total landscaped area require no irrigation / watering?		✓	
Does at least 25% of the total landscaped area require low water use?	✓		
Does at most 50% of the total landscaped area require medium or high water use?	✓		
Is mulch cover provided for shrubs and groundcover to reduce soil evaporation?	√		
Do water features such as pools and fountains use recirculated water systems?			✓
Do landscape installation standards meet the requirements of the BC Landscape Standard and / or the Master Municipal Construction Document?	✓		
Are the required written declarations signed by a qualified Landscape Architect?	✓		
Irrigation System Guidelines			1
Is the Irrigation Plan prepared by a Qualified Professional?	√		
Are irrigation circuits grouped into "hydro-zones" of high, medium and low or unirrigated / unwatered areas consistent with the landscaping plan?	✓		
Is drip or low volume irrigation used?	\checkmark		
Are the required written declarations signed by a qualified Certified Irrigation Designer?	✓		
Crime prevention			
Are CPTED practices as related to landscaping, siting, form and exterior design included in the design?	√		
Are building materials vandalism resistant?	✓		
Universal Accessible Design		•	•
Is access for persons with disabilities integrated into the overall site plan and clearly visible from the principal entrance?			✓
Are the site layout, services and amenities easy to understand and navigate?			✓
Lakeside Development			
Are lakeside open spaces provided or enhanced?			✓

COMPREHENSIVE DEVELOPMENT PERMIT AREA	YES	NO	N/A
Are lake views protected?			✓
Does lakeside development act as a transition between the lake and inland development?			√
Signs			
Do signs contribute to the overall quality and character of the development?			✓
Is signage design consistent with the appearance and scale of the building?			✓
Are signs located and scaled to be easily read by pedestrians?			✓
For culturally significant buildings, is the signage inspired by historical influences?			✓
Lighting			
Does lighting enhance public safety?	√		
Is "light trespass" onto adjacent residential areas minimized?	✓		
Does lighting consider the effect on the façade, neighbouring buildings and open spaces?			✓
Is suitably scaled pedestrian lighting provided?			✓
Does exterior street lighting follow the International Dark Sky Model to limit light pollution?			✓



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B 2018.05.07 Revision : Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4
(7-Plex) Plans and Elevations.

UNION ROAD

PROJECT STATISTICS:

1931 Union Road, Kelowna B.C. Lot 9, Plan 52773, O.D.Y.D. Civic Address: Legal Description: Permitted Zoning: RM2 - Low Density Row Housing Zone (City of Kelowna Zoning By Law No. 8000) Permitted Use: **Row Housing**

Site Area:

Min. Site Area: Lot Area:

46.70	sq.m.		
088.29	sq.ft.		
605	ha.		
nimum Allow	ved	Propos	se d
nimum Allow	sq. m.	<u>Propos</u> 6046.70	sed sq. m
	AND ART THE T		900000000

Lot Width:	30.00	m.	56.50	m.
Lot Depth:	30.00	m.	108.69	m.
Min. Yard Setbacks:	Allowed		Propos	ed
	Front Yard	1.5 m	3.0) m
	Interior Side Yard	4.0 m	4.0	m
	Flanking Side Yard	1.5 m	3.0) m
	Rear Yard	7.5 m	7.5	m
	ž.	<u> </u>		

Site Coverage:	Building Type	# of Bldg's	Area/Bldg (Coverage)	Total Cover/Bldg's	
(Footprint of Buildings)	Building 1 (7 Plex)	1	7,415	7,415	sq.ft.
	Buildings 2 & 5 (4 Plex)	2	4,155	8,310	sq.ft.
	Buildings 3 & 4 (7 Plex)	2	7,344	14,688	sq.ft.
	TOTAL	5		30,413	sq.ft
Floor Aron Botin Brookdown	Building Tons	# of Bldg's	Aron/Plda (for EAD)	Total FAR/Bldg's	
Floor Area Ratio Breakdown:	Building Type	# Of Blug's	Area/Bldg (for FAR)	Total FAR/Blugs	
Buildings)	Building 1 (7 Plex)	1	11,025	11,025	sq.ft
	Buildings 2 & 5 (4 Plex)	2	6,162	12,324	sq.ft
	Buildings 3 & 4 (7 Plex)	2	10,907	21,814	sq.ft

TOTAL	
Buildings 3 & 4 (7 Plex)	
Buildings 2 & 5 (4 Plex)	

	TOTAL	5		45,163.20	sq.ft.
	1				
Floor Area Ratio Breakdown:	Units	# of units	Area/Unit (for FAR)	FAR	
(Units)	Unit A	6	1,535	9,210.00	sq.ft.
	Unit B, B1 & B2 (sq. ft. average	19	1,544	29,341.20	sq.ft.
	Unit C	4	1,653	6,612.00	sq.ft.
	TOTAL	29		45,163.20	sq.ft.

DP_A2.13

DRAWING INDEX:

ARCHITECTURAL:

ARCHITECTURAL: PATRICK McCUSKER ARCHITECTURE INC. 3430 BENVOULIN ROAD, KELOWNA, B.C. VIW 4M5 CONTACT: PATRICK McCUSKER AIBC, AAA, MRAIC TEL: 778.484.0223 e-mail: pat@pmccarch.com

CONSULTANTS:

OUTLAND DESIGN LANDSCAPE ARCHITECTURE 206-1889 SPALL ROAD KELOWNA, B.C. VIY 4R2 CONTACT: FIONA BARTON

LANDSCAPE ARCHITECT:

TEL: 250.868.9270 e-mail: fiona@outlanddesign.ca CIVIL ENGINEER:

APLIN MARTIN CONSULTANTS LTD. **454 LEON AVENUE** KELOWNA, B.C. V1Y 6J3 CONTACT: CORY BARKER P. Eng. TEL: 250.448.0157 e-mail: kelowna@aplinmartin.com

DWG. No.	DRAWING NAME		
DP_A 0.00	COVER SHEET	DP_A3.00	BUILDING 1 (7-PLEX) FRONT ELEVATION
		DP_A3.01	BUILDING 1 (7-PLEX) REAR ELEVATION
DP_A1.00	TOPOGRAPHIC SURVEY SITE PLAN	DP_A3.02	BUILDING 1 (7-PLEX) RIGHT & LEFT SIDE ELEVATIONS
DP_A1.01	SITE PLAN	DP_A3.03	BUILDING 1 (7-PLEX) FRONT ELEVATION (COLOURED)
		DP_A3.04	BUILDING 1 (7-PLEX) REAR ELEVATION (COLOURED)
DP_A2.00	BUILDING 1 (7-PLEX) PARTIAL MAIN FLOOR PLAN	DP_A3.05	BUILDING 1 (7-PLEX) RIGHT & LEFT SIDE ELEVATIONS (COLOURED)
DP_A2.01	BUILDING 1 (7-PLEX) PARTIAL MAIN FLOOR PLAN		
DP_A2.02	BUILDING 1 (7-PLEX) PARTIAL UPPER FLOOR PLAN	DP_A3.06	BUILDINGS 2 & 5 (4-PLEX) FRONT & RIGHT SIDE ELEVATIONS
DP_A2.03	BUILDING 1 (7-PLEX) PARTIAL UPPER FLOOR PLAN	DP_A3.07	BUILDINGS 2 & 5 (4-PLEX) REAR & LEFT SIDE ELEVATIONS
DP_A2.04	BUILDING 1 (7-PLEX) PARTIAL ROOF PLAN	DP_A3.08	BUILDINGS 2 & 5 (4-PLEX) FRONT & RIGHT SIDE ELEVATIONS (COLOURI
DP_A2.05	BUILDING 1 (7-PLEX) PARTIAL ROOF PLAN	DP_A3.09	BUILDINGS 2 & 5 (4-PLEX) REAR & LEFT SIDE ELEVATIONS (COLOURED

BUILDINGS 3 & 4 (7-PLEX) PARTIAL UPPER FLOOR PLAN BUILDINGS 3 & 4 (7-PLEX) PARTIAL ROOF PLAN

DP_A2.14 BUILDINGS 3 & 4 (7-PLEX) PARTIAL ROOF PLAN

DP_A2.04	BUILDING 1 (7-PLEX) PARTIAL ROOF PLAN	DP_A3.08	BUILDINGS 2 & 5 (4-PLEX) FRONT & RIGHT SIDE ELEVATIONS (COLOURED)
DP_A2.05	BUILDING 1 (7-PLEX) PARTIAL ROOF PLAN	DP_A3.09	BUILDINGS 2 & 5 (4-PLEX) REAR & LEFT SIDE ELEVATIONS (COLOURED)
DP_A2.06	BUILDINGS 2 & 5 1 (4-PLEX) MAIN FLOOR PLAN	DP_A3.10	BUILDINGS 3 & 4 (7-PLEX) FRONT ELEVATION
DP_A2.07	BUILDINGS 2 & 5 1 (4-PLEX) UPPER FLOOR PLAN	DP_A3.11	BUILDINGS 3 & 4 (7-PLEX) REAR ELEVATION
DP_A2.08	BUILDINGS 2 & 5 1 (4-PLEX) ROOF PLAN	DP_A3.12	BUILDINGS 3 & 4 (7-PLEX) RIGHT & LEFT SIDE ELEVATIONS
DP_A2.09	BUILDINGS 3 & 4 (7-PLEX) PARTIAL MAIN FLOOR PLAN	DP_A3.20	BUILDINGS 1,2 & 3 ELEVATIONS (STREETSCAPE)
DP_A2.10	BUILDINGS 3 & 4 (7-PLEX) PARTIAL MAIN FLOOR PLAN		
DP_A2.11	BUILDINGS 3 & 4 (7-PLEX) PARTIAL UPPER FLOOR PLAN	DP_A4.00	BUILDING SECTIONS (TYPICAL)

DP_A8.00 MISC. EXTERIOR DETAILS

		Allo	wed	Prope	ose d
Site Coverage:	Maximum 50% (Building Footprint)	3,023.35	sq.m.	2,825.37	sq.m.
		32,544.15	sq.ft.	30,413.00	sq.ft.
		Allo	wed	Proposed	Variance
Total Coverage:	Maximum 60% (Buildings + Driveways +	3,628.02	sq.m.	4,168.42	sq.m.
	Parking)	39,052.97	sq.ft.	44,870.00	sq.ft.
		Allo	wed	Prop	osed
Floor Area Ratio:	Maximum 0.70 FAR	4,232.69	sq.m.	4,195.66	sq.m.
	(Addition of 0.05 for Parking)	45,561.80	sq.ft.	45,163.20	sq.ft.
		Allo	wed	Prop	osed
Max. Bldg Height:	2 1/2 storey's	9.50	m.	8.19	m.
		31.17	ft.	26.86	ft.
Private open space:	Min. 25 sq.m. / 3 Bdrm Unit	Req	iured	Prop	osed
	(Community Pvt Open Space Area of		sq.m.	1,304	sq m
	45 sq. m has been included)				
Parking:		Req	uired	Prop	osed
	Units - 2 stalls / 3 Bdrm Unit		58	58	spaces
	Visitor - 1 vistor stall / 7 Units		5	6	spaces
	23 Medium car stalls	Total Re	eq'd = 63	64	spaces
	39 Full size car stalls				
Bicycle:	Class II - Provide 0.1 / Unit	Required		Prope	osed
			3	4	spaces
		Total R	eq'd = 3	4	spaces

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166	158 160 110 110 110	116 115 114	11.6 1118 1115	104 ₁₀₂ 2053
179	164 (159)		120122	12

SCHEDULE

This forms part of application # <u>DP18-0042 DVP18-0043</u>

Planner Initials

1 2018.02.05 Issued for Development Permit No. Date Description



ARCHITECTURE INC. AAA MAIBC MRAIC 3430 BENVOULIN ROAD

PATRICK McCUSKER

KELOWNA BC V1W 4M5 ~ Phone:778-484-0223 ~ pat@pmccarch.com www.pmccarch.com

project title

Revisions

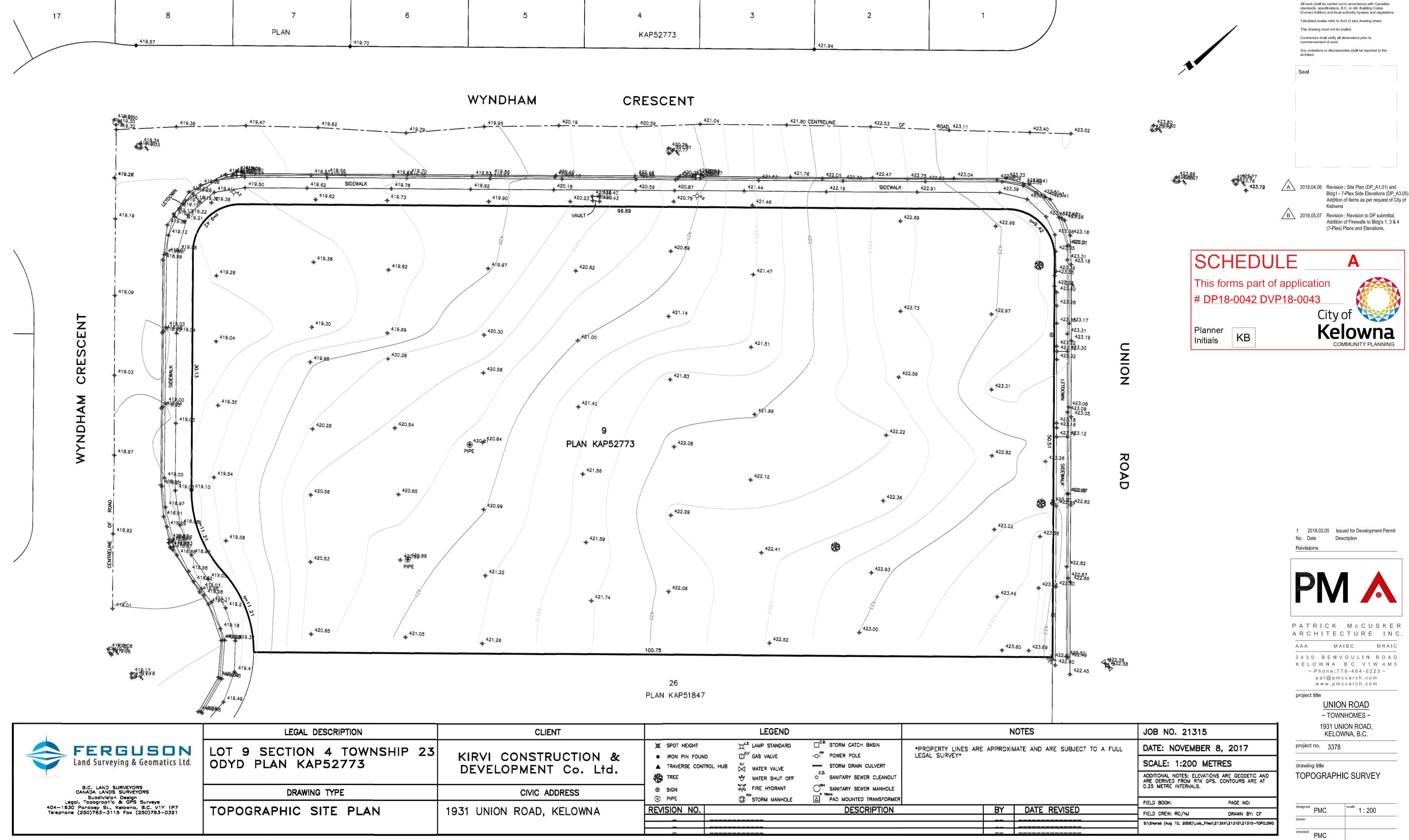
UNION ROAD ~ TOWNHOMES ~ 1931 UNION ROAD, KELOWNA, B.C.

project no. 3378 drawing title

COVER SHEET

designed	PMC	scale N/A
drawn		
checked	PMC	
drawing no	D.	

plotted May 10, 2018 04:20 PM

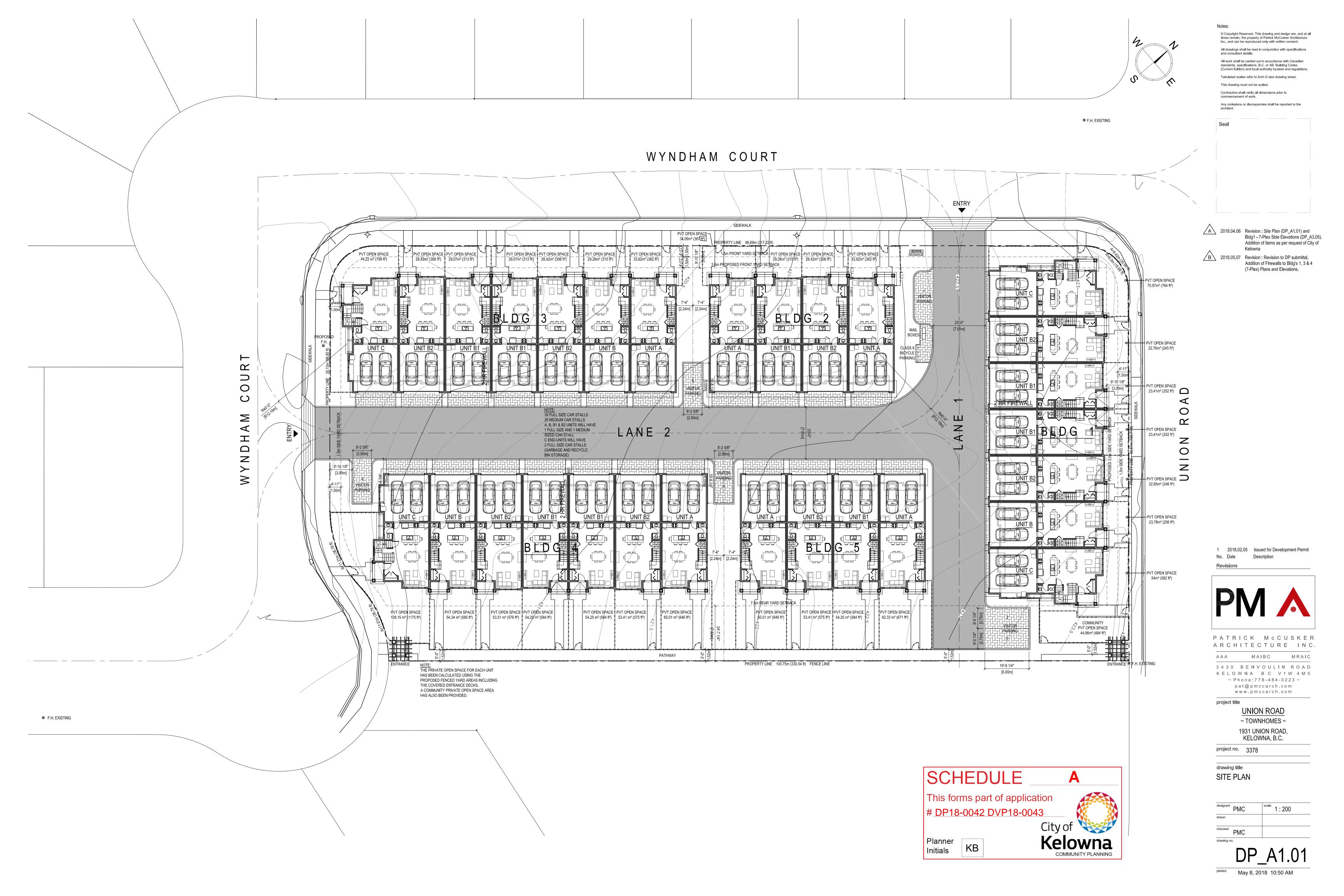


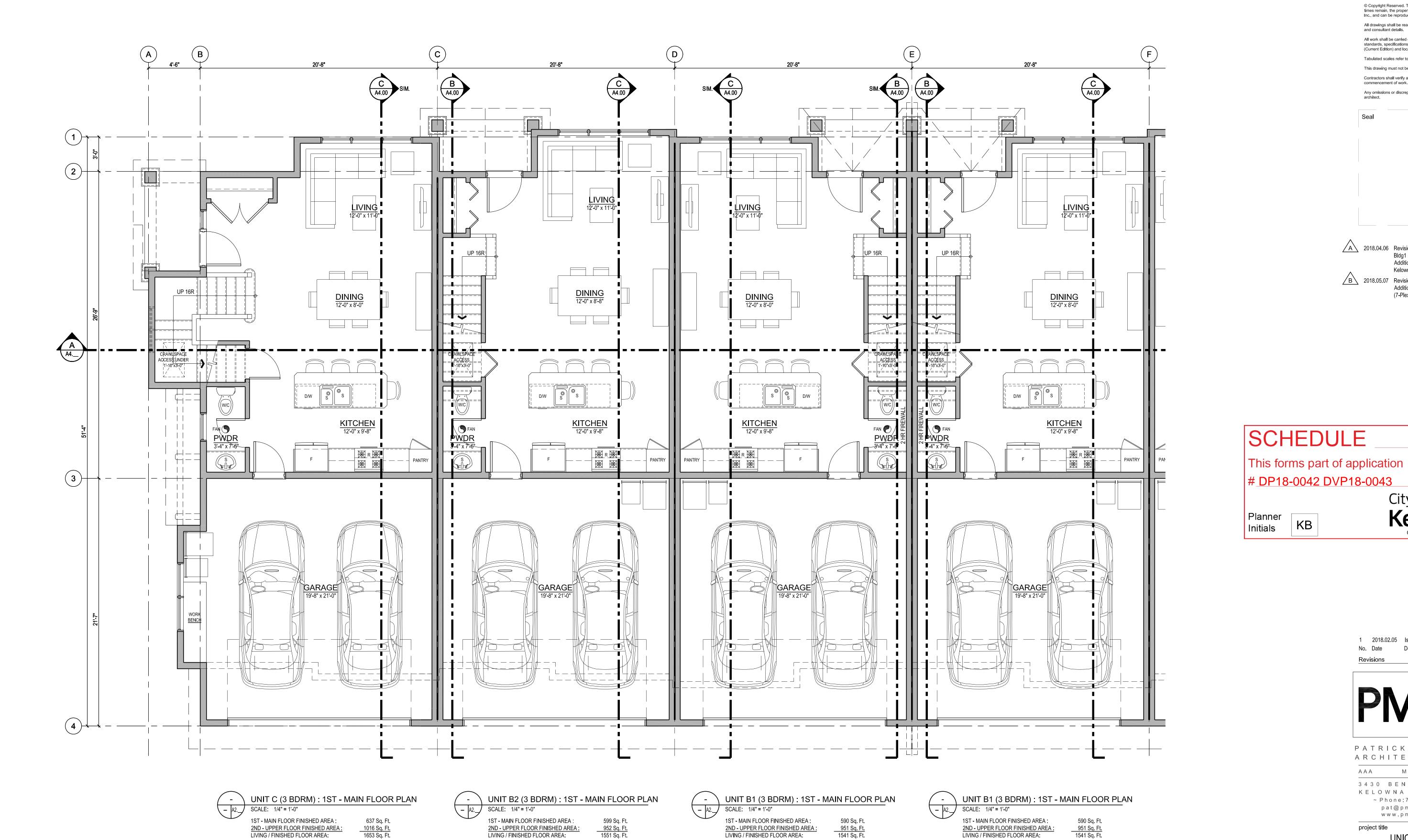
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drawing no.

plotted May 7, 2018 09:06 AM





446 Sq. Ft. 1997 Sq. Ft.

GARAGE AREA:

TOTAL FLOOR AREA:

446 Sq. Ft. 1987 Sq. Ft.

GARAGE AREA:

TOTAL FLOOR AREA:

GARAGE AREA:

TOTAL FLOOR AREA:

471 Sq. Ft. 2124 Sq. Ft.

GARAGE AREA:

TOTAL FLOOR AREA:

No. Date Description



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Addition of Firewalls to Bldg's 1, 3 & 4
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This drawing must not be scaled.

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3430 BENVOULIN ROAD KELOWNA BC V1W 4M5 ~ Phone:778-484-0223 ~ pat@pmccarch.com www.pmccarch.com

UNION ROAD ~ TOWNHOMES ~ 1931 UNION ROAD, KELOWNA, B.C.

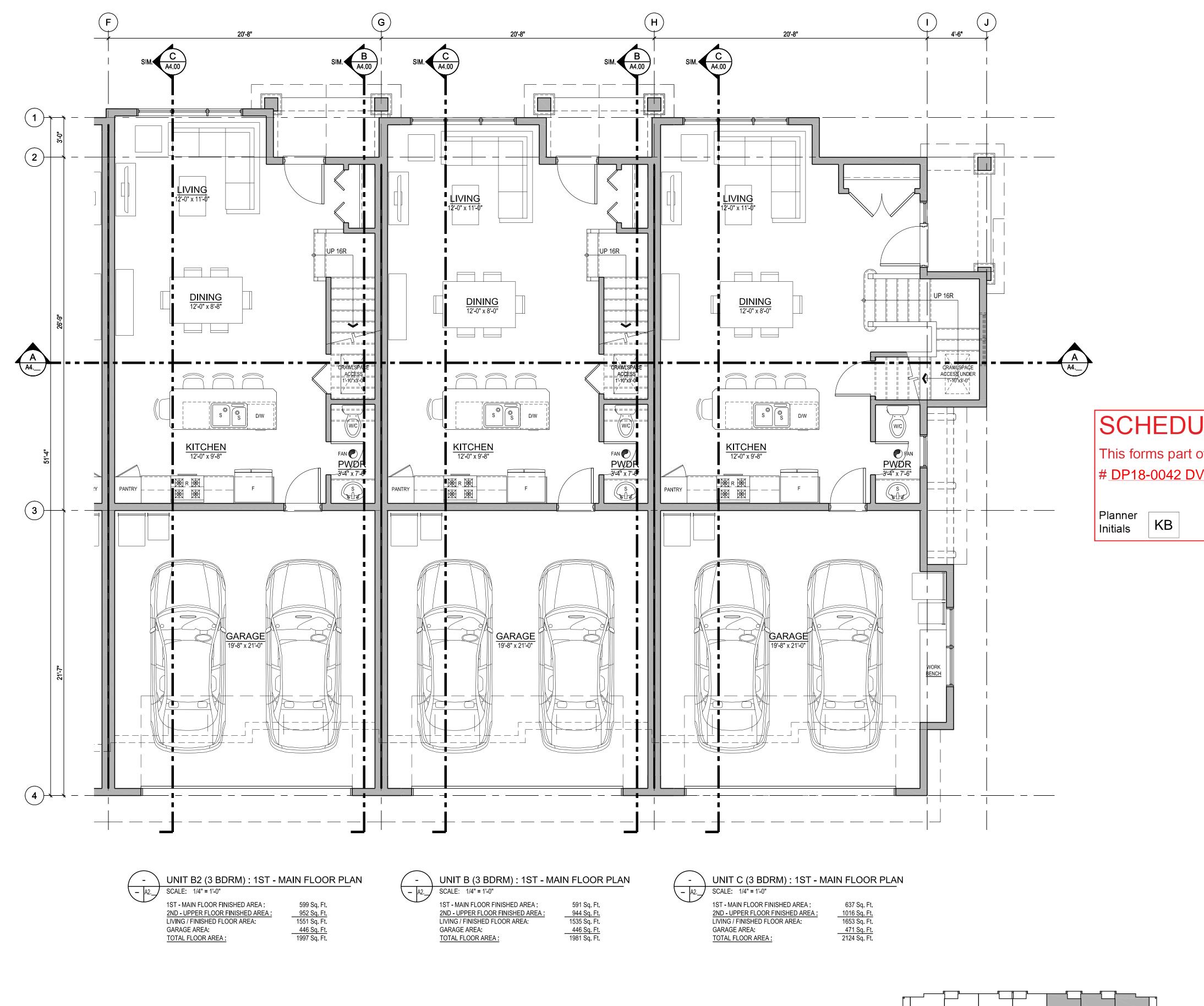
project no. 3378

drawing title BLDG 1 - 7-PLEX PARTIAL MAIN FLOOR PLAN

scale 1/4" = 1'-0" checked PMC drawing no.

plotted May 7, 2018 09:50 AM

BUILDING 1 - 7-PLEX



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project no. 3378

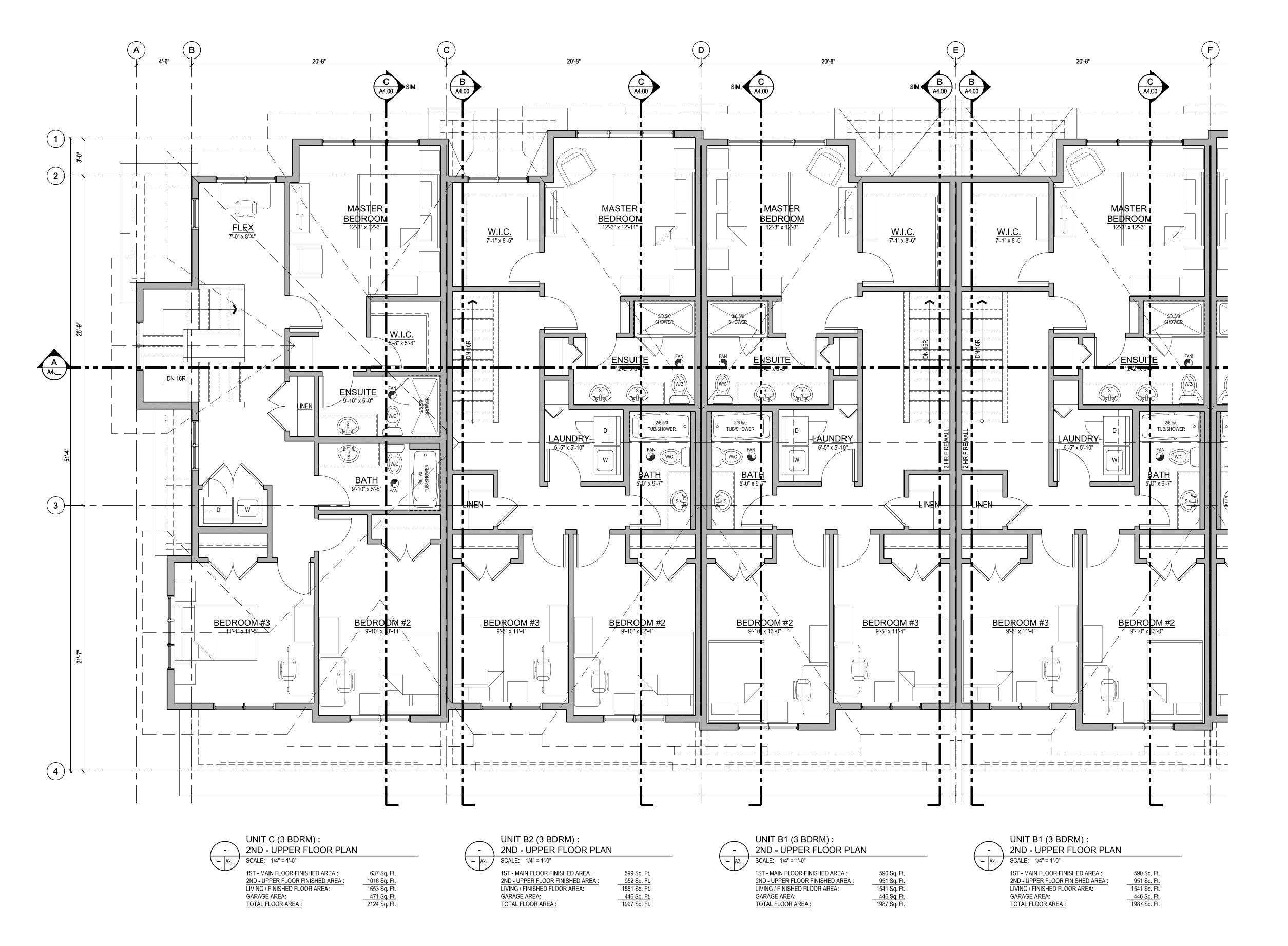
BUILDING 1 - 7-PLEX

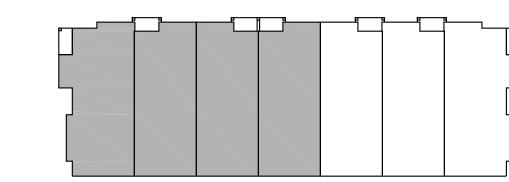
drawing title BLDG 1 - 7-PLEX PARTIAL MAIN FLOOR PLAN

scale 1/4" = 1'-0" checked PMC drawing no.

DP_A2.01

Plotted May 7, 2018 09:52 AM





BUILDING 1 - 7-PLEX

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(7-Plex) Plans and Elevations.

B

COMMUNITY PLANNING

SCHEDULE

This forms part of application # DP18-0042 DVP18-0043

Planner Initials

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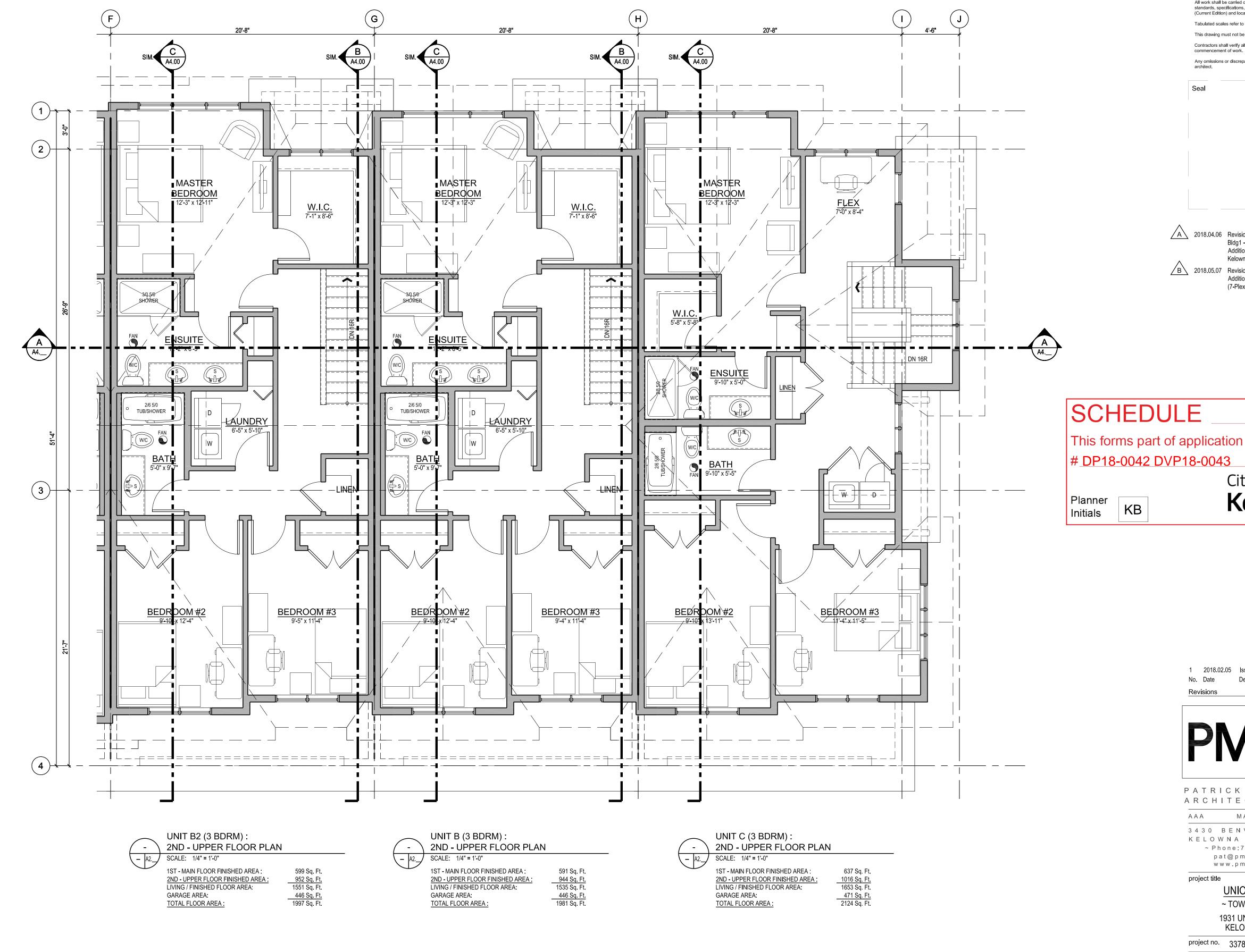
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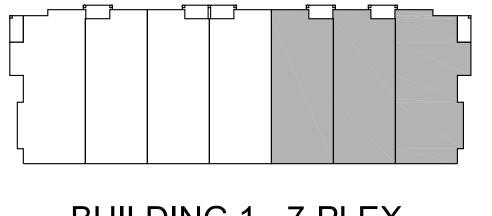
project no. 3378

drawing title BLDG 1 - 7-PLEX PARTIAL UPPER FLOOR PLAN

scale 1/4" = 1'-0" checked PMC

plotted May 7, 2018 09:43 AM





BUILDING 1 - 7-PLEX

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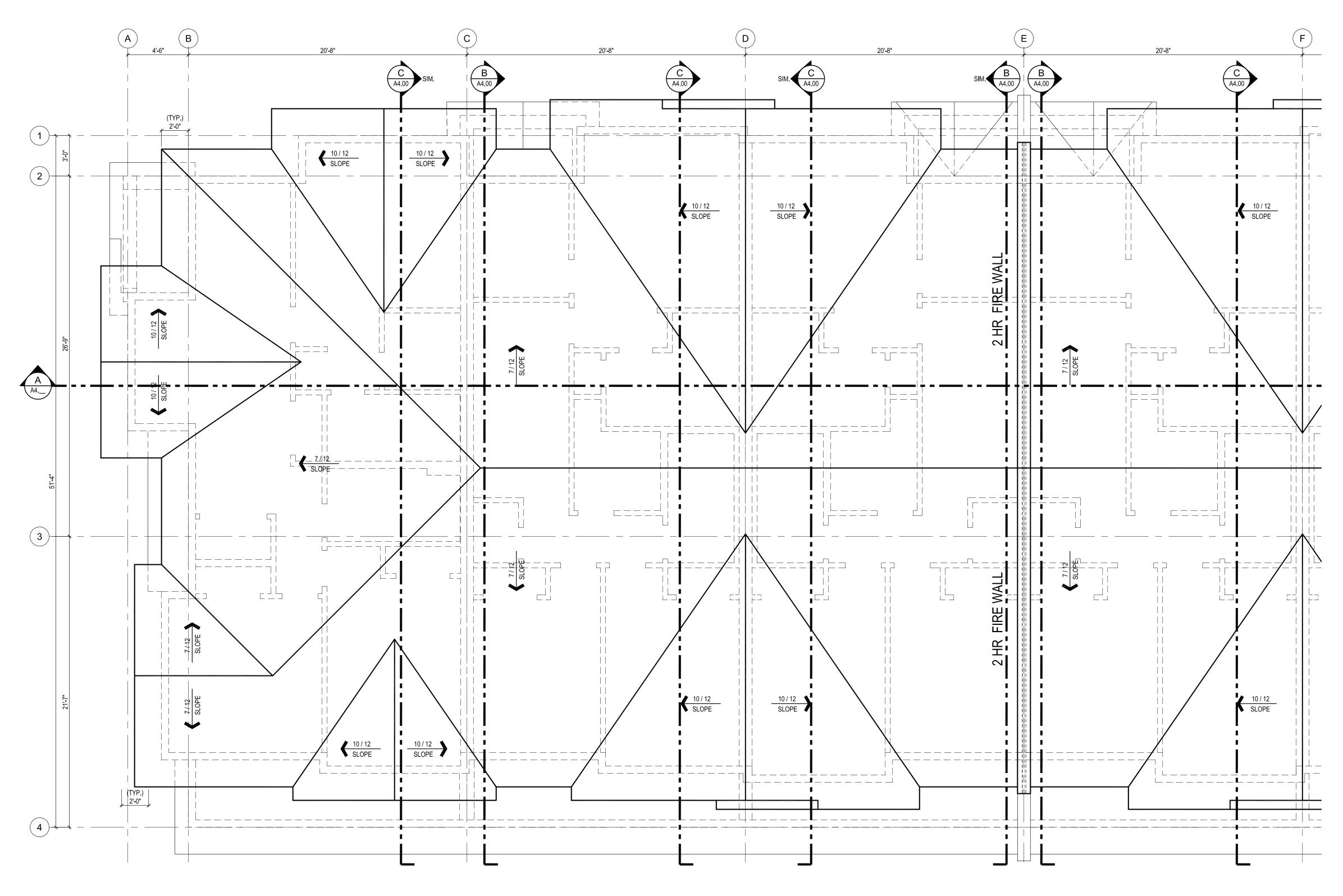
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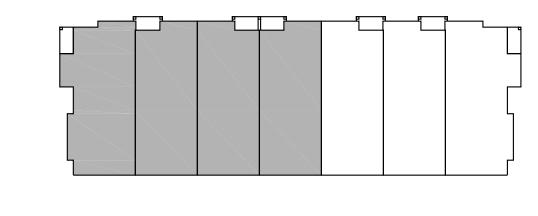
drawing title BLDG 1 - 7-PLEX PARTIAL UPPER FLOOR PLAN

1/4" = 1'-0" checked PMC

May 7, 2018 09:44 AM



BUILDING 1 - 7-PLEX : PARTIAL ROOF PLAN _ A2.__ SCALE: 1/4" = 1'-0"



BUILDING 1 - 7-PLEX

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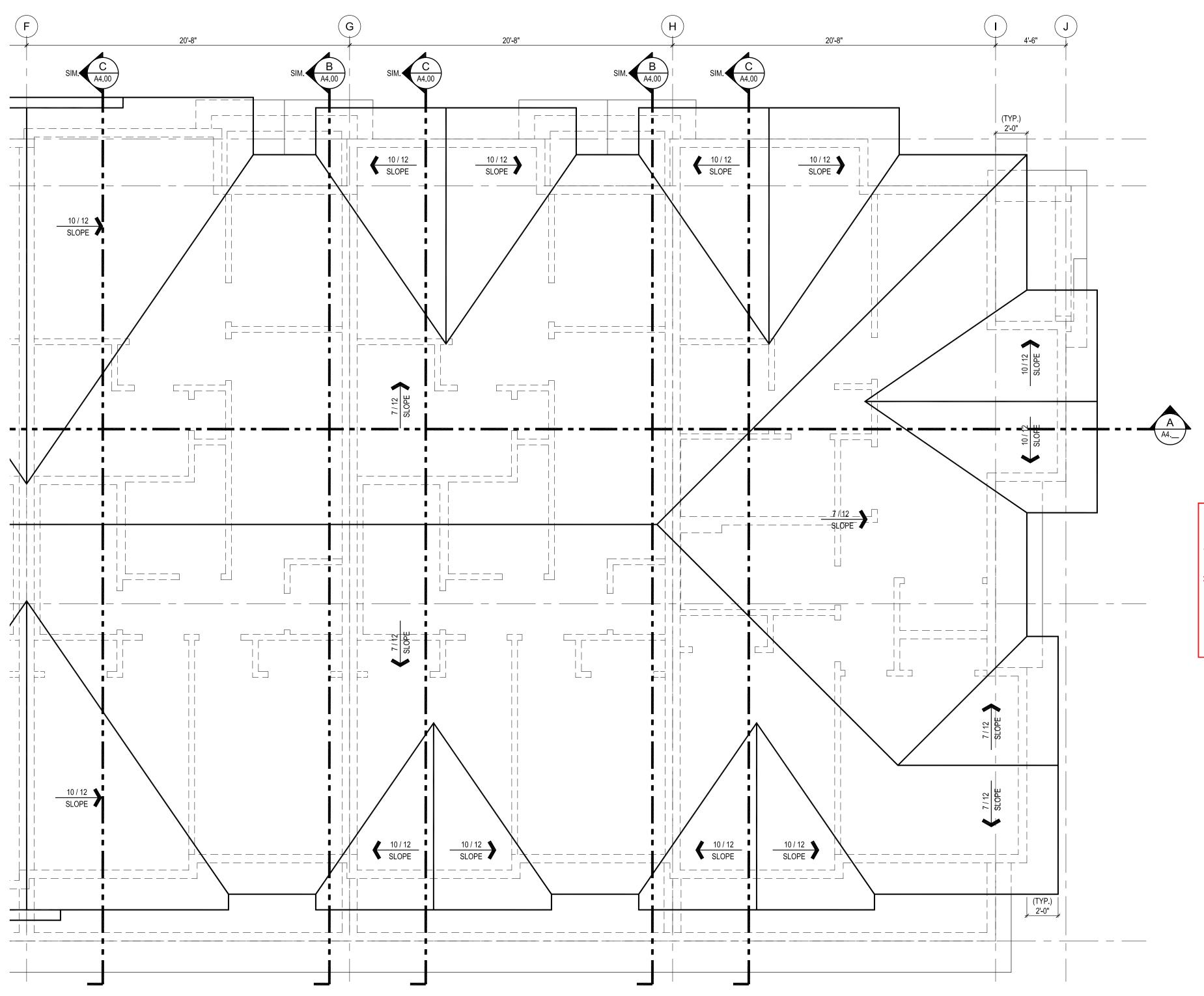
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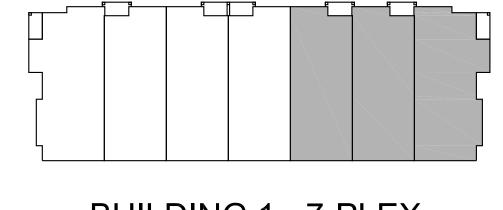
drawing title BLDG 1 - 7-PLEX PARTIAL ROOF PLAN

checked PMC

plotted May 7, 2018 10:55 AM



BUILDING 1 - 7-PLEX : PARTIAL ROOF PLAN A2. SCALE: 1/4" = 1'-0"



BUILDING 1 - 7-PLEX

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SCHEDULE

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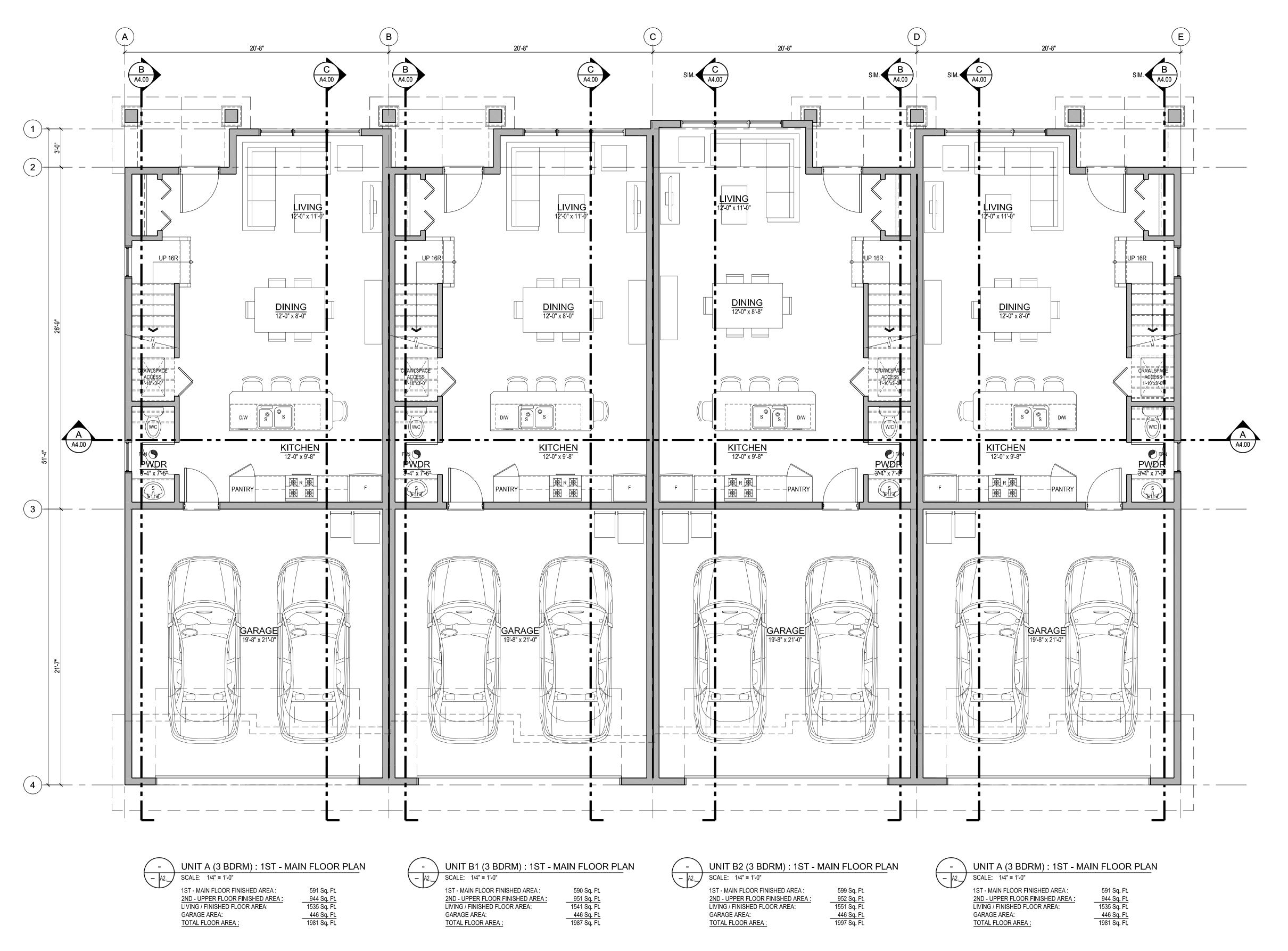
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drawing title BLDG 1 - 7-PLEX PARTIAL ROOF PLAN

checked PMC

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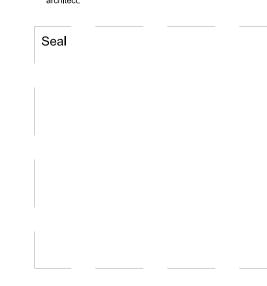
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SCHEDULE

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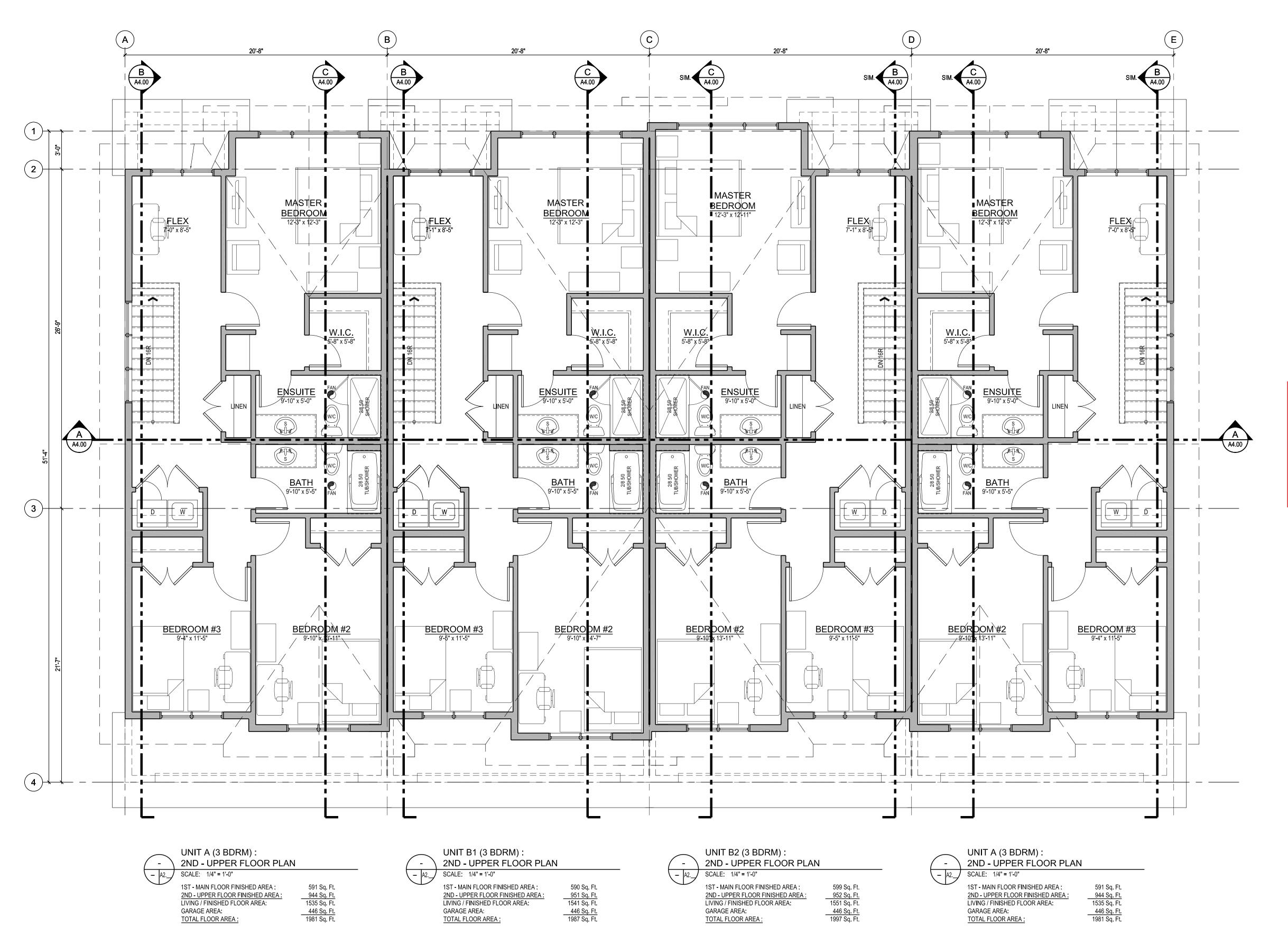
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drawing title BLDG'S 2 & 5 - 4-PLEX MAIN FLOOR PLAN

scale 1/4" = 1'-0" checked PMC

drawing no.

plotted May 7, 2018 09:55 AM



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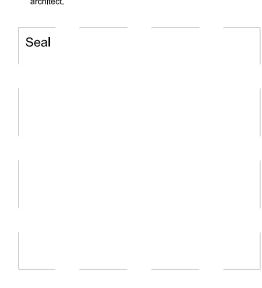
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SCHEDULE



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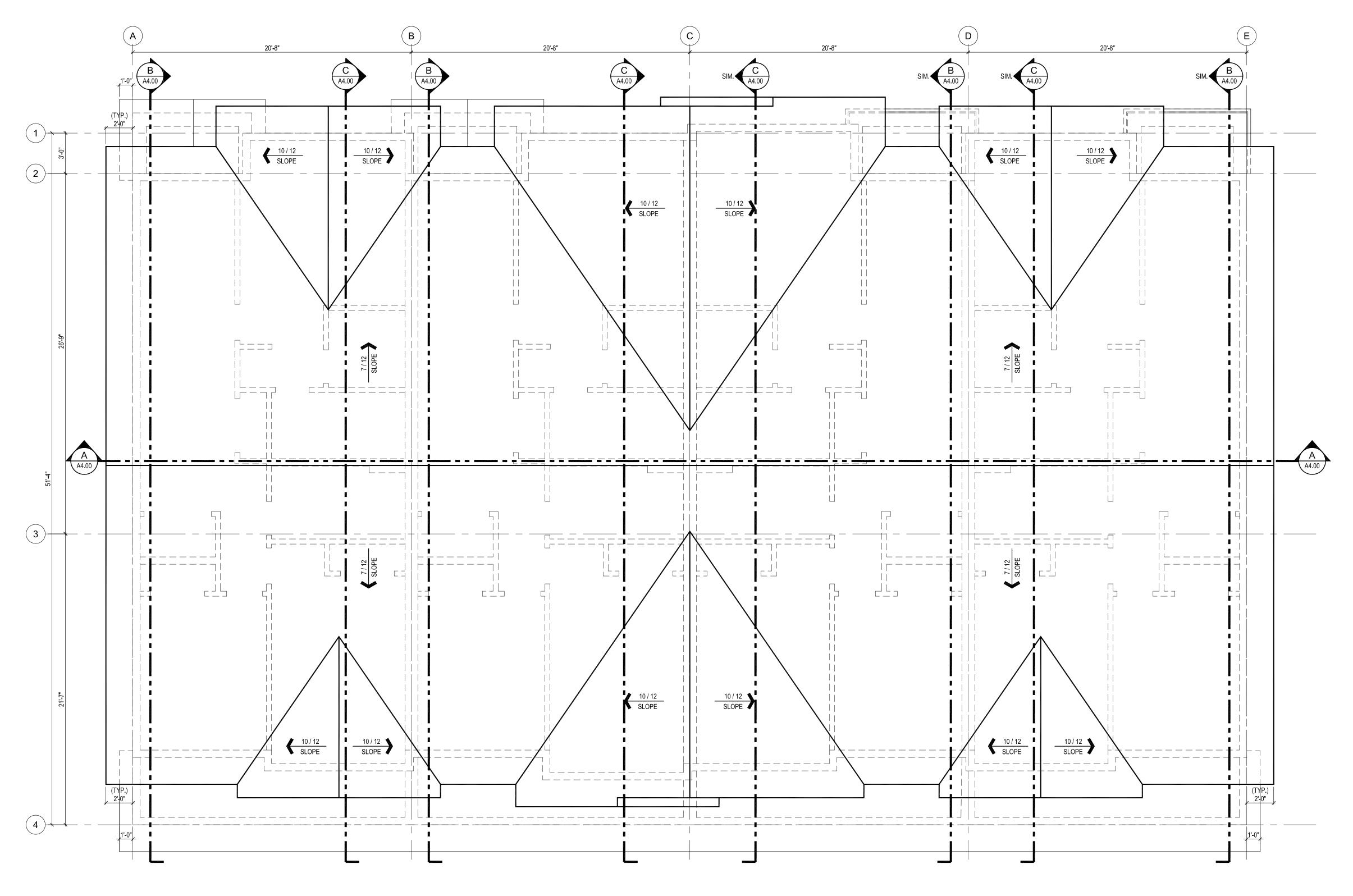
project no. 3378

drawing title BLDG'S 2 & 5 - 4-PLEX UPPER FLOOR PLAN

designed	PMC	scale	1/4" = 1'-0"
drawn			
checked	PMC		



plotted May 7, 2018 09:56 AM



BUILDINGS 2 & 5 - 4 PLEX : ROOF PLAN

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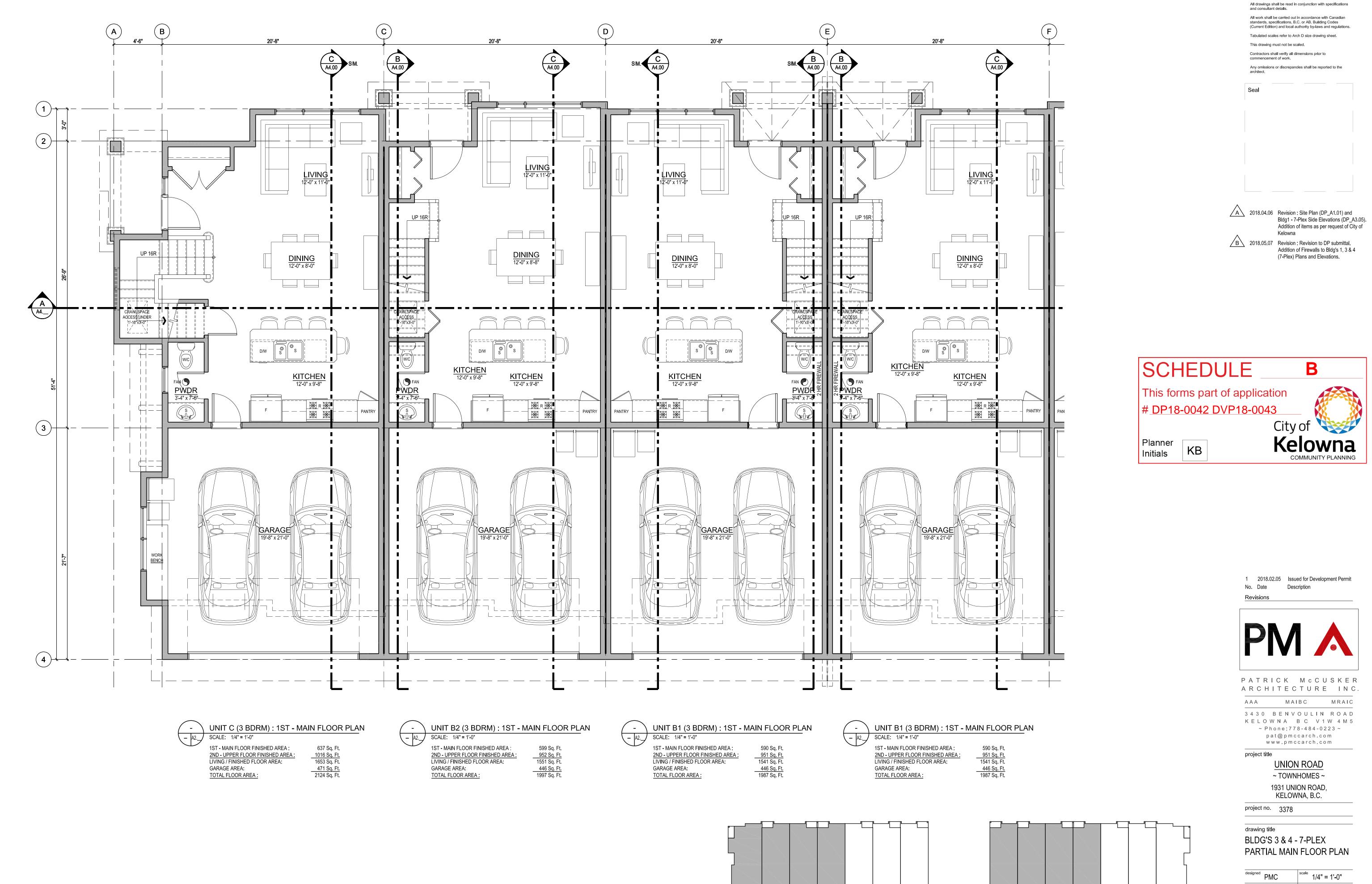
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drawing title BLDG'S 2 & 5 - 4-PLEX **ROOF PLAN**

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BUILDING 3 - 7-PLEX

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BLDG'S 3 & 4 - 7-PLEX

PARTIAL MAIN FLOOR PLAN

scale 1/4" = 1'-0"

drawing title

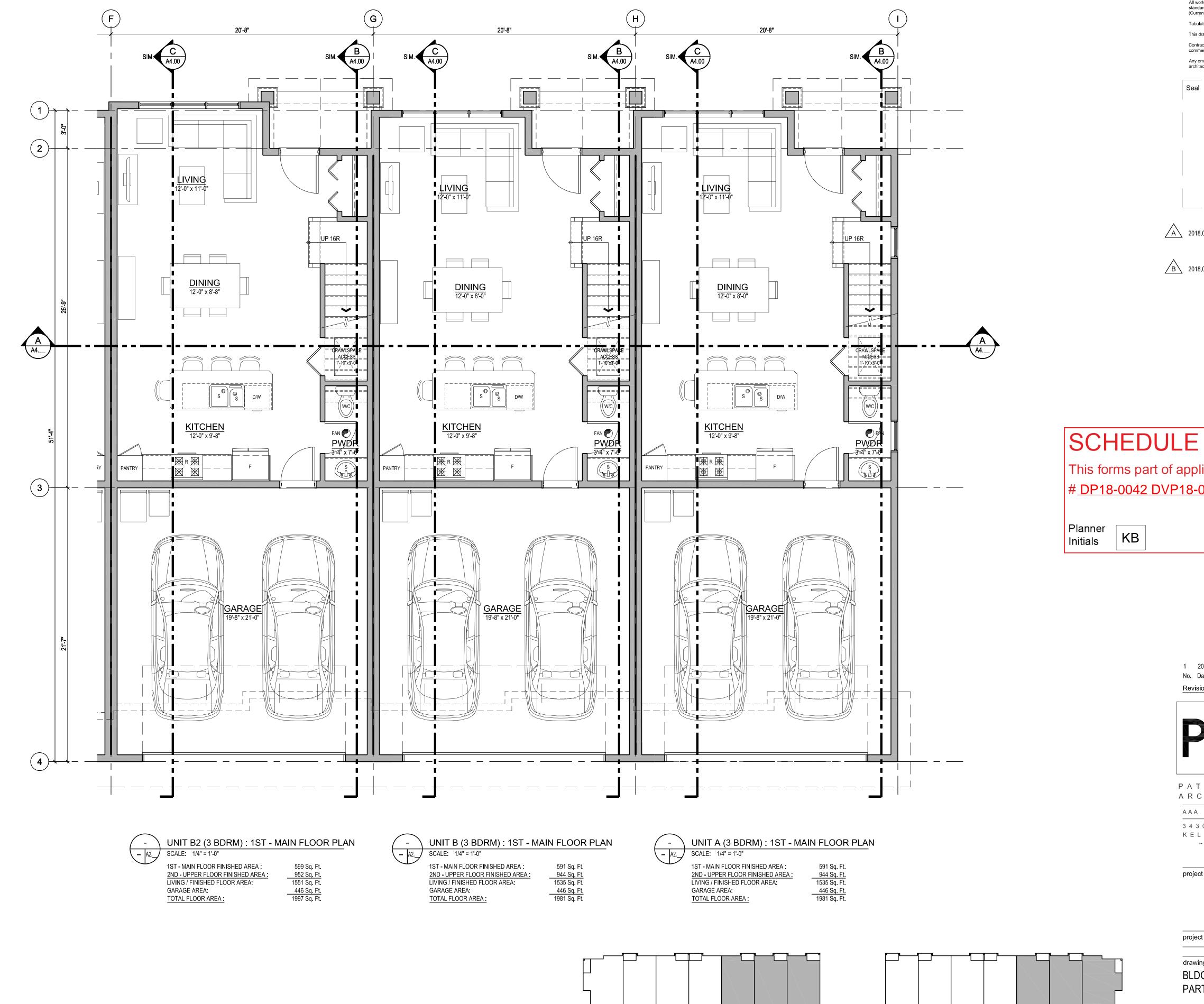
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drawing no.

BUILDING 4 - 7-PLEX

No. Date Description

AAA



BUILDING 3 - 7-PLEX

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Seal

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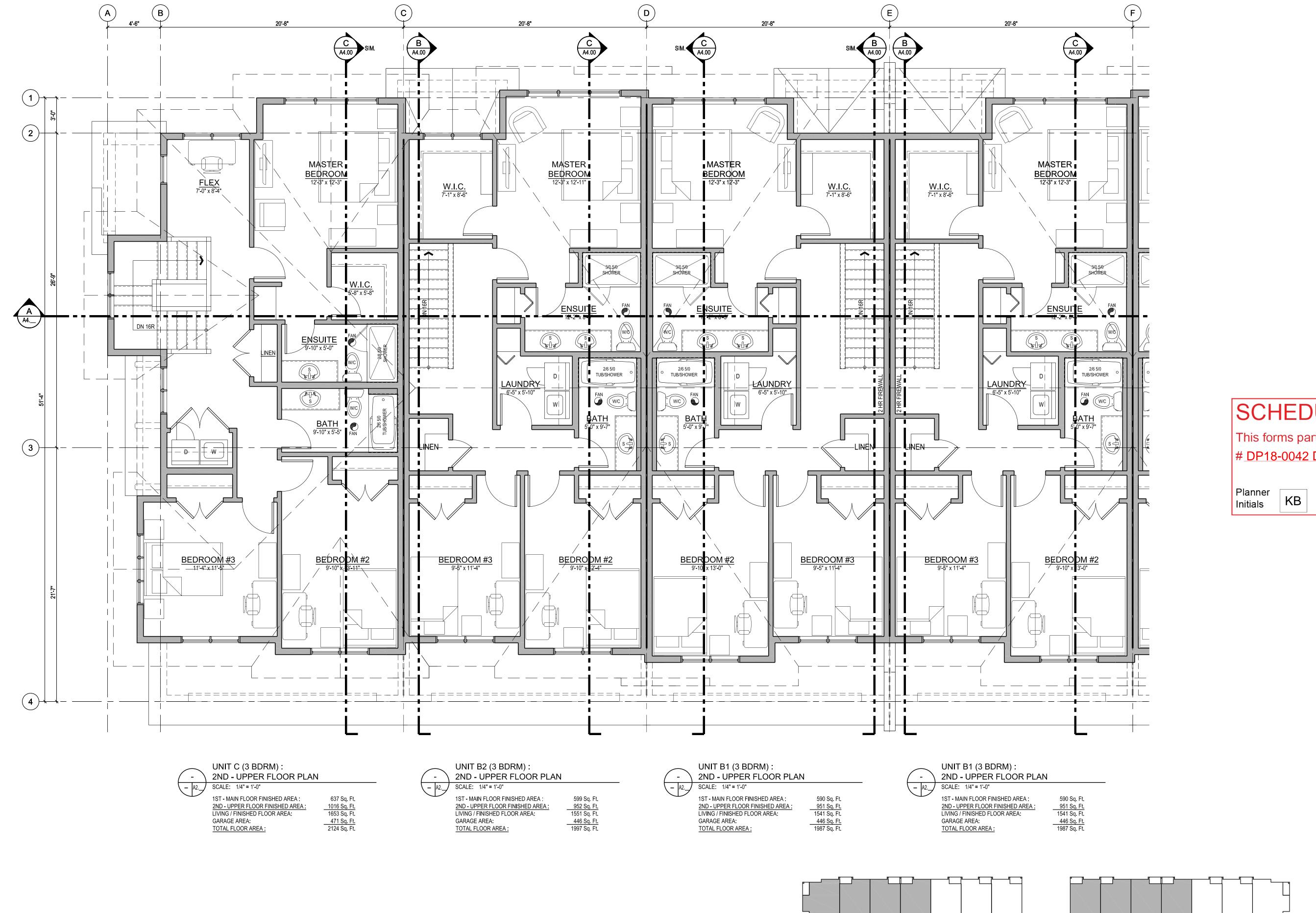
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BUILDING 4 - 7-PLEX

drawing title BLDG'S 3 & 4 - 7-PLEX PARTIAL MAIN FLOOR PLAN

scale 1/4" = 1'-0" checked PMC drawing no.

DP_A2.10 plotted May 7, 2018 10:44 AM



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SCHEDULE

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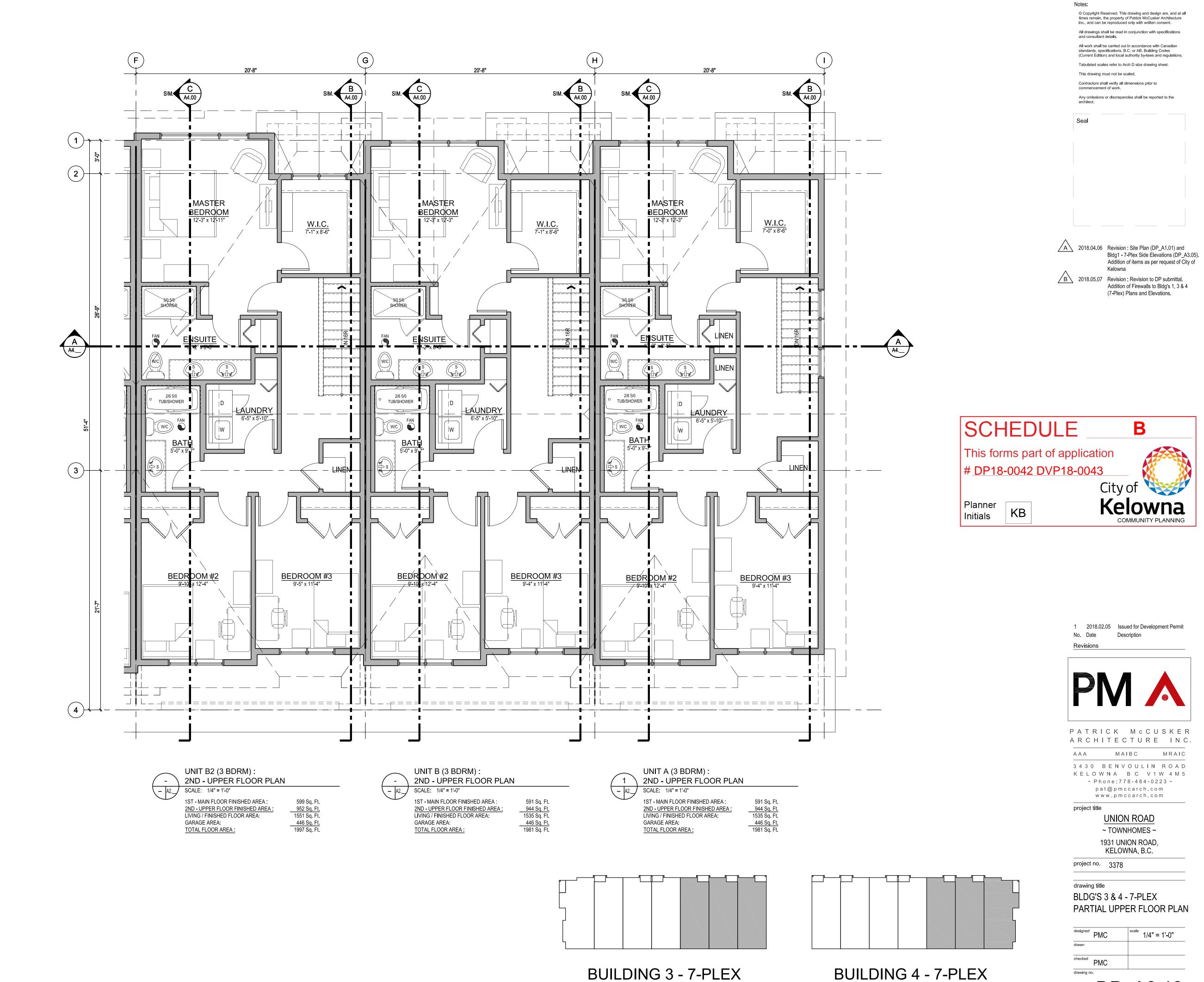
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BUILDING 4 - 7-PLEX

drawing title BLDG'S 3 & 4 - 7-PLEX PARTIAL UPPER FLOOR PLAN

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PARTIAL UPPER FLOOR PLAN

1/4" = 1'-0"

project no. 3378

BLDG'S 3 & 4 - 7-PLEX

drawing title

checked PMC

MAIBC MRAIC

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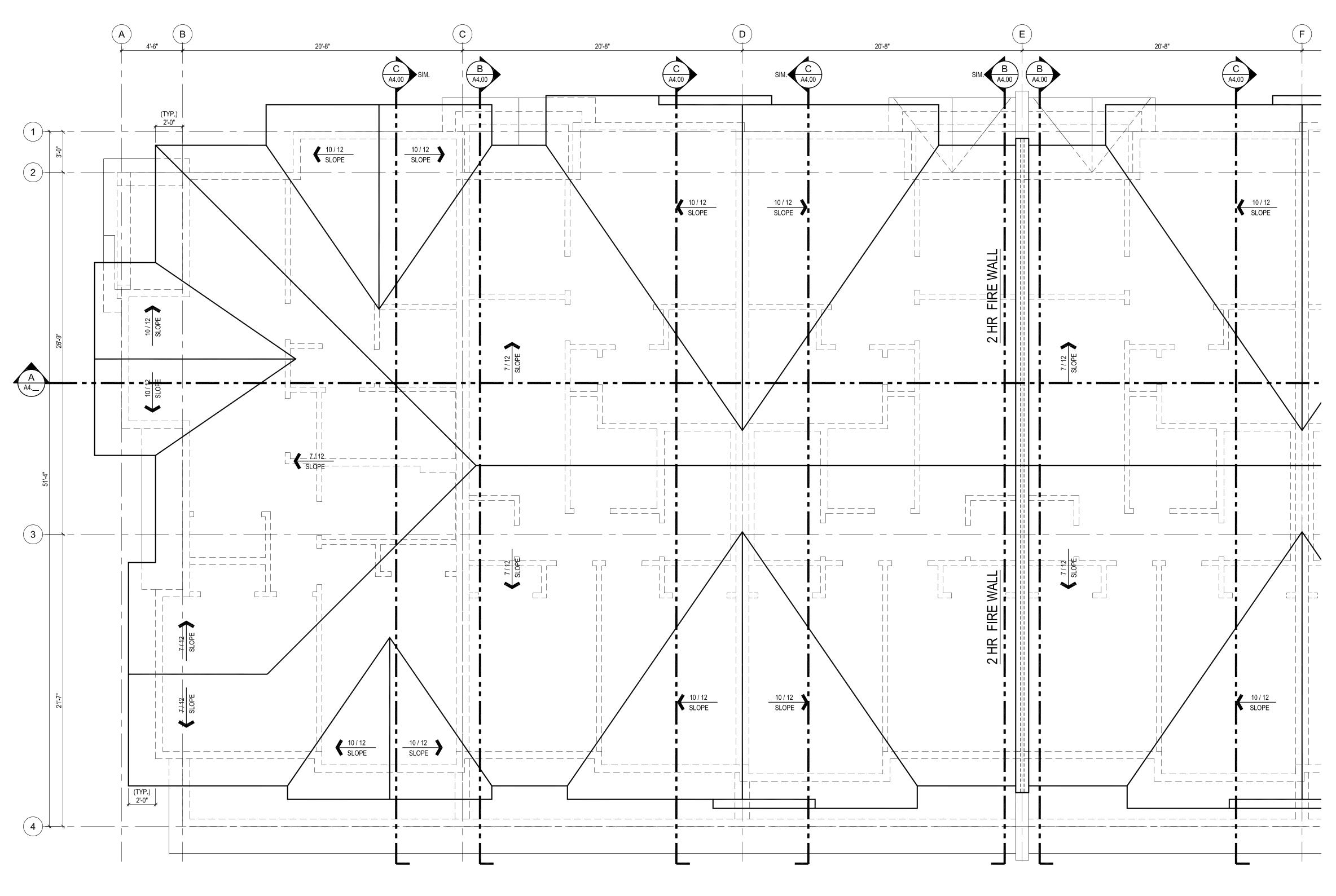
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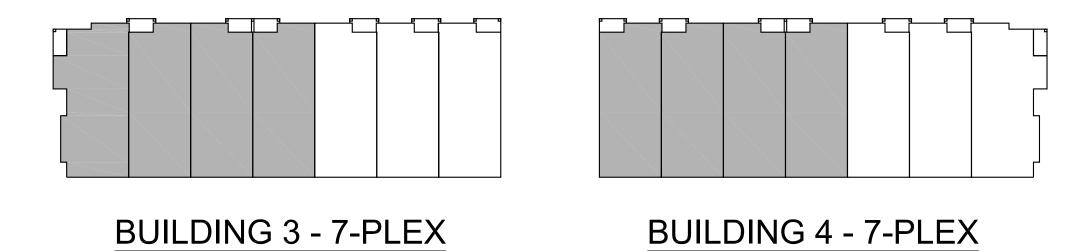
Addition of items as per request of City of

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BUILDING 3 - 7-PLEX : PARTIAL ROOF PLAN A2. SCALE: 1/4" = 1'-0"



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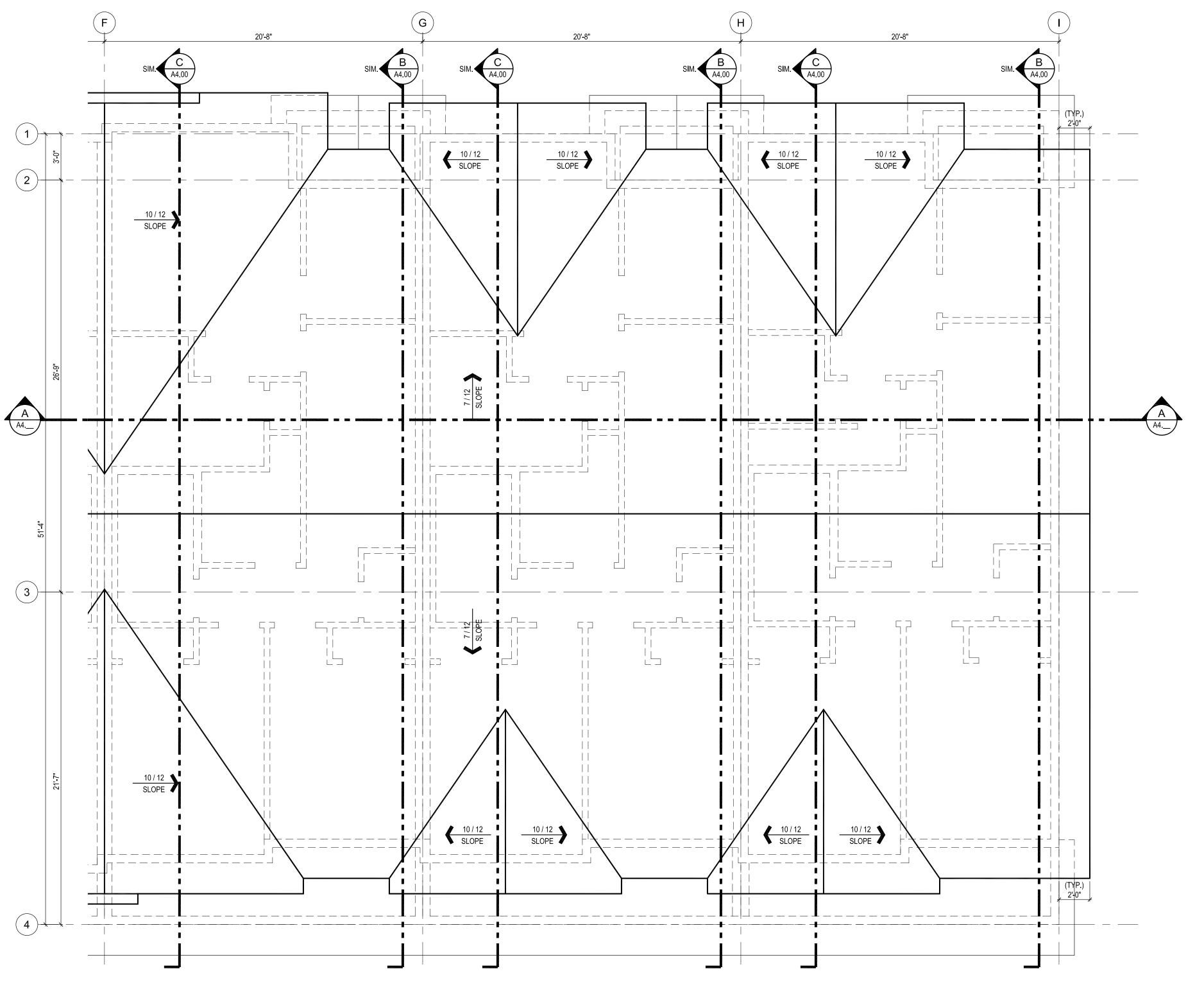
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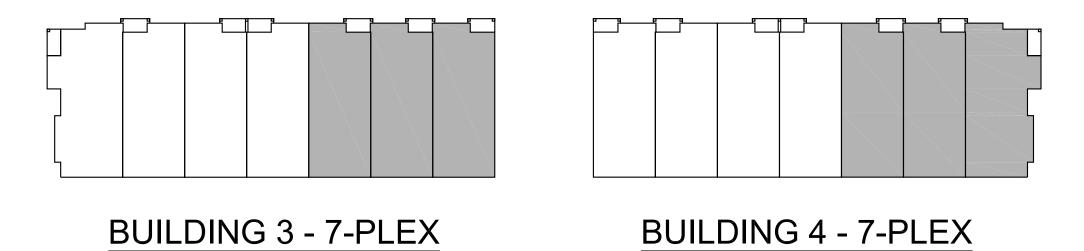
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BUILDING 3 - 7-PLEX : PARTIAL ROOF PLAN A2. SCALE: 1/4" = 1'-0"



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project no. 3378

drawing title BLDG'S 3 & 4 - 7-PLEX PARTIAL ROOF PLAN

checked PMC

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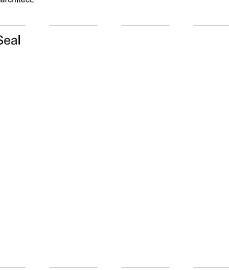
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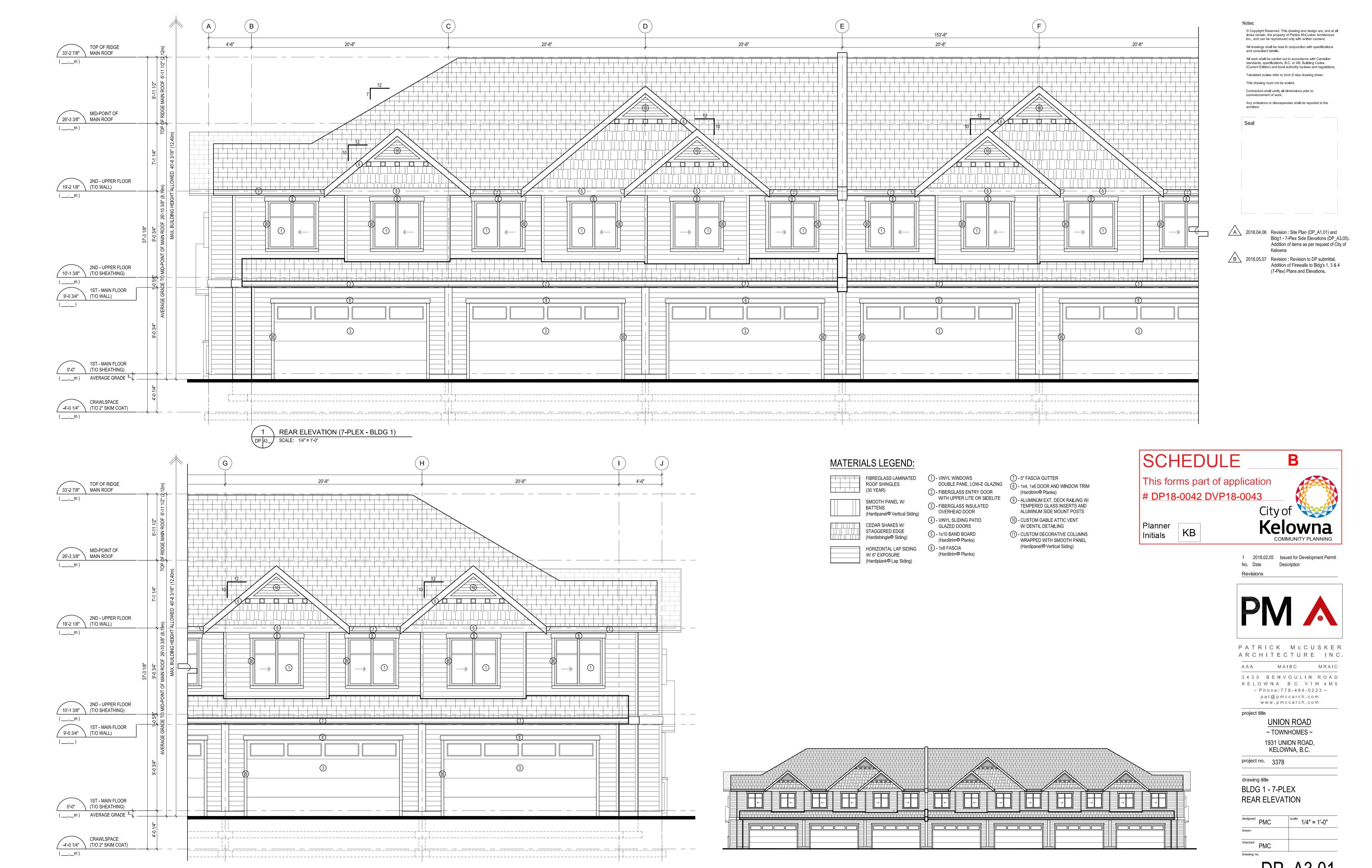
project no. 3378

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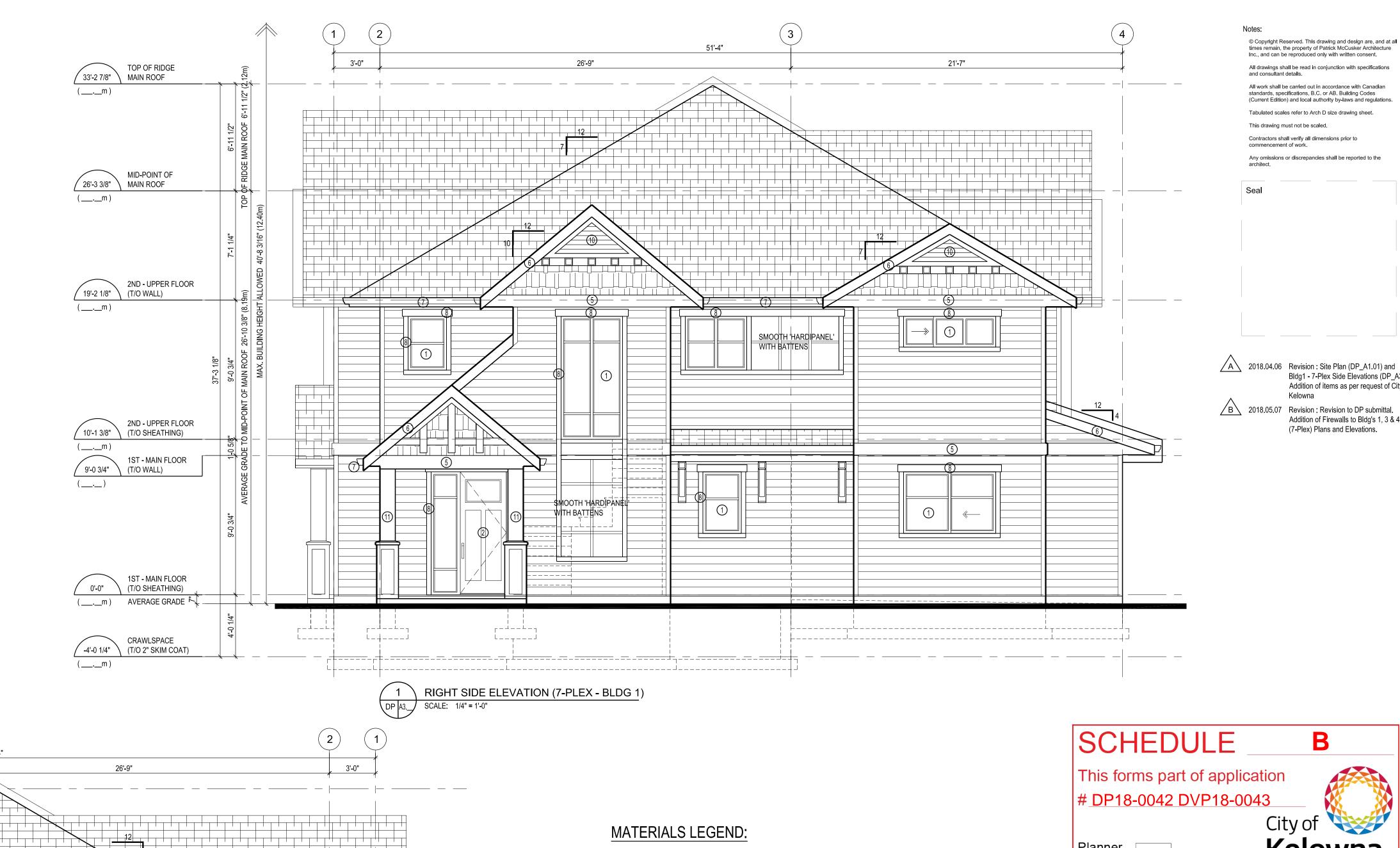
designed PM	C	scale	1/4" = 1'-0"
drawn			
checked PM	C		

DP_A3.00

May 7, 2018 11:19 AM



plotted May 7, 2018 11:20 AM





2 \ LEFT SIDE ELEVATION (7-PLEX - BLDG 1)

DP A3. SCALE: 1/4" = 1'-0"



(7) - 5" FASCIA GUTTER

(Harditrim® Planks)

(8) - 1x4, 1x6 DOOR AND WINDOW TRIM

ALUMINUM EXT. DECK RAILING W/ TEMPERED GLASS INSERTS AND ALUMINUM SIDE MOUNT POSTS

① - CUSTOM GABLE ATTIC VENT W/ DENTIL DETAILING

1) - CUSTOM DECORATIVE COLUMNS WRAPPED WITH SMOOTH PANEL

(Hardipanel® Vertical Siding)

(1) - VINYL WINDOWS

DOUBLE PANE, LOW-E GLAZING

WITH UPPER LITE OR SIDELITE

2 - FIBERGLASS ENTRY DOOR

(3) - FIBERGLASS INSULATED

OVERHEAD DOOR

4 - VINYL SLIDING PATIO

GLAZED DOORS

(Harditrim® Planks)

(Harditrim® Planks)

(5) - 1x10 BAND BOARD

6 - 1x8 FASCIA

FIBREGLASS LAMINATED

(Hardipanel® Vertical Siding)

ROOF SHINGLES

SMOOTH PANEL WA

CEDAR SHAKES W/

STAGGERED EDGE

W/ 6" EXPOSURE

(Hardishingle® Siding)

HORIZONTAL LAP SIDING

(Hardiplank® Lap Siding)

BATTENS

(30 YEAR)

1 2018.02.05 Issued for Development Permit No. Date Description Revisions

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Bldg1 - 7-Plex Side Elevations (DP_A3.05). Addition of items as per request of City of

Addition of Firewalls to Bldg's 1, 3 & 4

(7-Plex) Plans and Elevations.

Contractors shall verify all dimensions prior to

This drawing must not be scaled.

commencement of work.

Seal

standards, specifications, B.C. or AB. Building Codes (Current Edition) and local authority by-laws and regulations.



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UNION ROAD ~ TOWNHOMES ~ 1931 UNION ROAD, KELOWNA, B.C.

project no. 3378

drawing title BLDG 1 - 7-PLEX RIGHT & LEFT SIDE **ELEVATIONS**

designed PMC	scale 1/4" = 1'-0"
drawn	
checked PMC	
drawing no.	

DP_A3.02

plotted May 7, 2018 11:21 AM



MATERIALS LEGEND:

FIBREGLASS LAMINATED ROOF SHINGLES

1) - VINYL WINDOWS DOUBLE PANE, LOW-E GLAZING (30 YEAR) 2 - FIBERGLASS ENTRY DOOR SMOOTH PANEL W/ (3) - FIBERGLASS INSULATED

TIMBER BARK

(James Hardie®)

COBBLE STONE

(James Hardie®)

BATTENS (Hardipanel® Vertical Siding)

CEDAR SHAKES W/ STAGGERED EDGE (Hardishingle® Siding)

HORIZONTAL LAP SIDING W/ 6" EXPOSURE (Hardiplank® Lap Siding)

6 - 1x8 FASCIA

GLAZED DOORS (5) - 'x10 BAND BOARD (Harditrim® Planks) (Harditrim® Planks)

OVERHEAD DOOR

4 - VINYL SLIDING PATIO

WITH UPPER LITE OR SIDELITE

(10) - CUSTOM GABLE ATTIC VENT W/ DENTIL DETAILING 11) - CUSTOM DECORATIVE COLUMNS WRAPPED WITH SMOOTH PANEL (Hardipanel® Vertical Siding)

(7) - 5" FASCIA GUTTER

8 - 1x4, 1x6 DOOR AND WINDOW TRIM (Harditrim® Planks)

ALUMINUM EXT. DECK RAILING W/ TEMPERED GLASS INSERTS AND ALUMINUM SIDE MOUNT POSTS

ARCTIC WHITE (James Hardie®)

> LAMINATED FIBREGLASS **ROOF SHINGLES**

SCHEDULE

This forms part of application #_DP18-0042 DVP18-0043

Planner Initials KB

B

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project title

UNION ROAD ~ TOWNHOMES ~

1931 UNION ROAD, KELOWNA, B.C.

project no. 3378

drawing title

BLDG 1 - 7-PLEX FRONT ELEVATION (COLOURED)

1/4" = 1'-0" checked PMC

DP_A3.03

May 3, 2018 11:02 AM







B 2018.05.07 Revision : Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4
(7-Plex) Plans and Elevations. SCHEDULE B

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Tabulated scales refer to Arch D size drawing sheet.

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A 2018.04.06 Revision : Site Plan (DP_A1.01) and Bldg1 - 7-Plex Side Elevations (DP_A3.05).

Addition of items as per request of City of

Contractors shall verify all dimensions prior to commencement of work.

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Seal



1 2018.02.05 Issued for Development Permit No. Date Description



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UNION ROAD ~ TOWNHOMES ~

1931 UNION ROAD, KELOWNA, B.C.

project no. 3378

drawing title BLDG 1 - 7-PLEX REAR ELEVATION (COLOURED)

designed PMC scale 1/4" = 1'-0" checked PMC

Plotted May 10, 2018 11:02 AM



RIGHT SIDE ELEVATION (7-PLEX - BLDG 1)

DP A3.04 SCALE: 1/4" = 1'-0"





2 LEFT SIDE ELEVATION (7-PLEX - BLDG 1)

DP A3.04 SCALE: 1/4" = 1'-0"





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A 2018.04.06 Revision : Site Plan (DP_A1.01) and

Kelowna

B 2018.05.07 Revision : Revision to DP submittal.

Bldg1 - 7-Plex Side Elevations (DP_A3.05). Addition of items as per request of City of

Addition of Firewalls to Bldg's 1, 3 & 4 (7-Plex) Plans and Elevations.

Contractors shall verify all dimensions prior to

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commencement of work.

KELOWNA BC V1W 41

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pat@pmccarch.com
www.pmccarch.com

project title

UNION ROAD ~ TOWNHOMES ~ 1931 UNION ROAD, KELOWNA, B.C.

project no. 3378

drawing title
BLDG 1 - 7-PLEX
RIGHT & LEFT SIDE
ELEVATIONS (COLOURED)

designed PMC scale 1/4" = 1'-0"
drawn
checked PMC

DP A3.05

plotted April 6, 2018 10:38 AM



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A 2018.04.06 Revision : Site Plan (DP_A1.01) and Bldg1 - 7-Plex Side Elevations (DP_A3.05). Addition of items as per request of City of

B 2018.05.07 Revision: Revision to DP submittal.

Addition of Firewalls to Bldg's 1, 3 & 4

(7-Plex) Plans and Elevations.

SCHEDULE

B

This forms part of application # DP18-0042 DVP18-0043 City of Kelowna COMMUNITY PLANNING

Planner Initials

KB

1 2018.02.05 Issued for Development Permit

No. Date Description

Revisions



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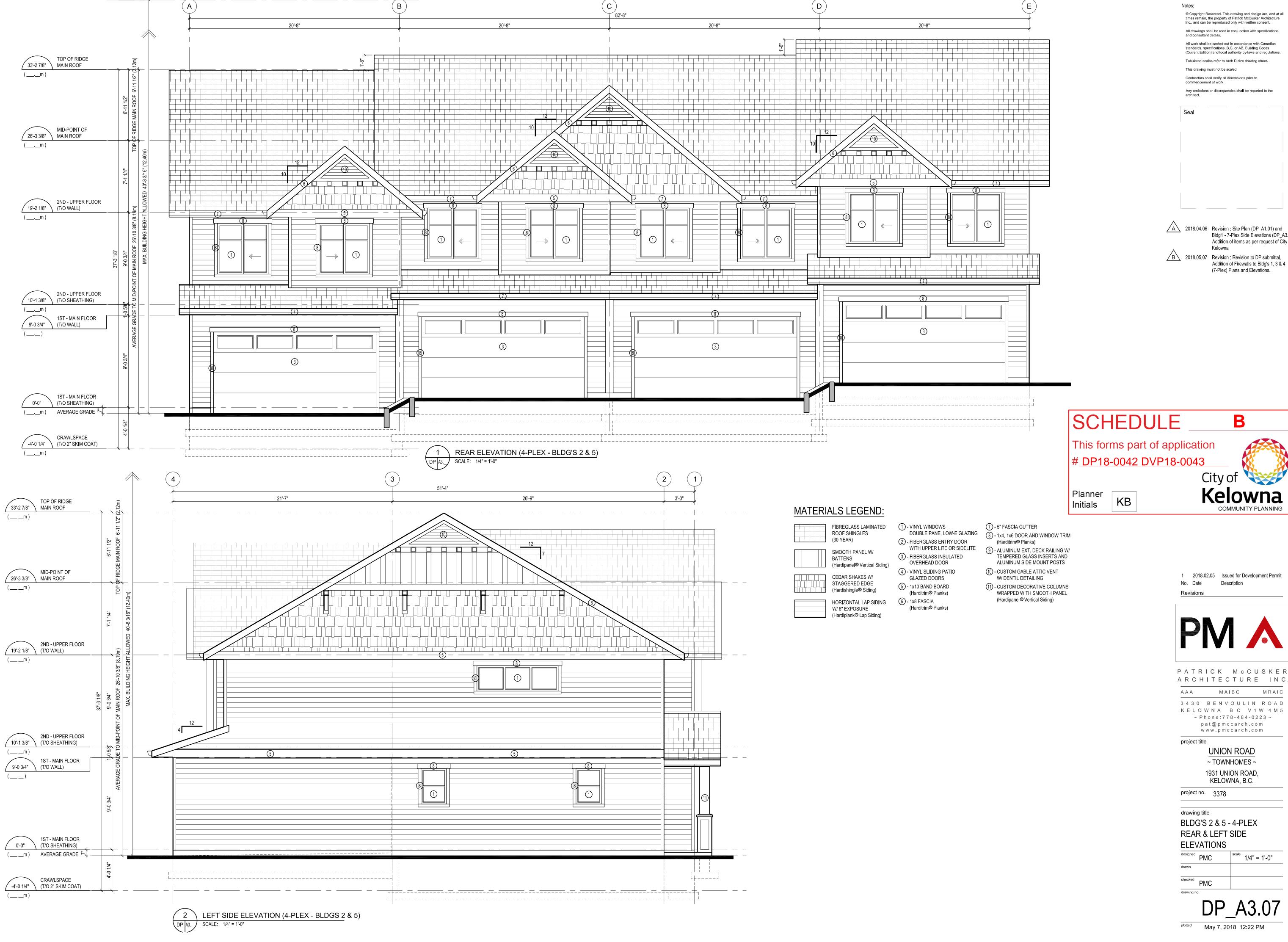
project no. 3378

drawing title BLDG'S 2 & 5 - 4-PLEX FRONT & RIGHT SIDE **ELEVATIONS**

designed PMC | scale | 1/4" = 1'-0" checked PMC

drawing no.

plotted May 7, 2018 11:39 AM



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A 2018.04.06 Revision : Site Plan (DP_A1.01) and Bldg1 - 7-Plex Side Elevations (DP_A3.05).

B 2018.05.07 Revision : Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4
(7-Plex) Plans and Elevations.



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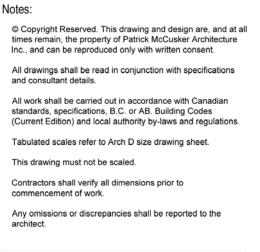
> UNION ROAD ~ TOWNHOMES ~ 1931 UNION ROAD, KELOWNA, B.C.

project no. 3378

drawing title BLDG'S 2 & 5 - 4-PLEX REAR & LEFT SIDE **ELEVATIONS**

plotted May 7, 2018 12:22 PM





2018.04.06 Revision : Site Plan (DP_A1.01) and

Bldg1 - 7-Plex Side Elevations (DP_A3.05). Addition of items as per request of City of

B 2018.05.07 Revision : Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4
(7-Plex) Plans and Elevations.

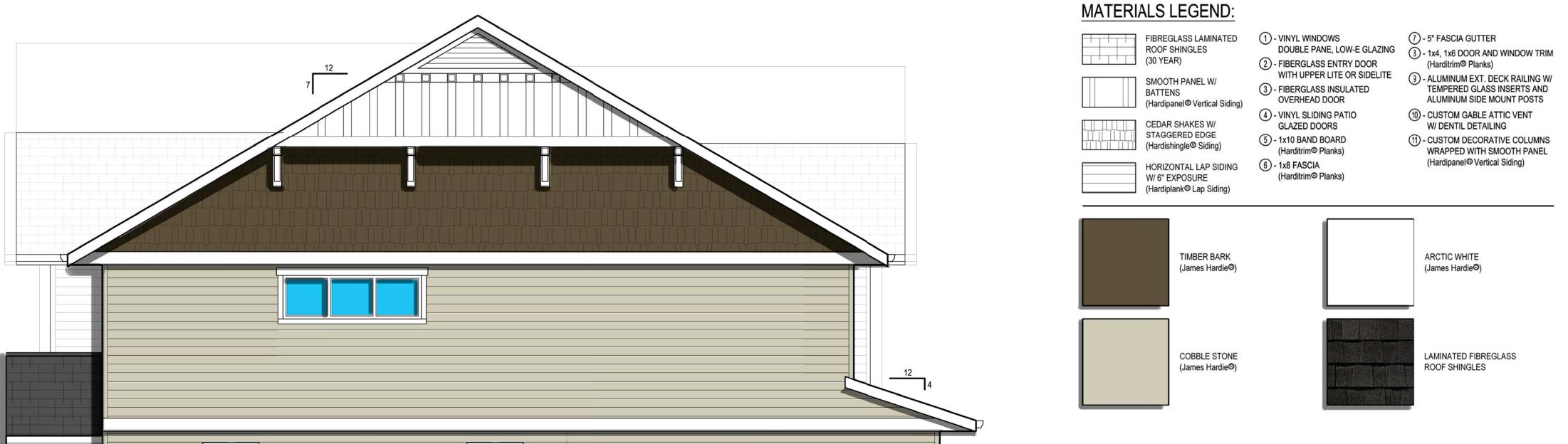
SCHEDULE

B

This forms part of application # <u>DP18-0042 DVP18-0043</u>

Initials





2 RIGHT SIDE ELEVATION (4-PLEX)

DP A3.00 SCALE: 1/4" = 1'-0"

(1) - CUSTOM DECORATIVE COLUMNS

WRAPPED WITH SMOOTH PANEL

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project title

UNION ROAD ~ TOWNHOMES ~

1931 UNION ROAD, KELOWNA, B.C.

project no. 3378

drawing title BLDG'S 2 & 5 - 4-PLEX

FRONT & RIGHT SIDE ELEVATIONS (COLOURED)

DP_A3.08

February 1, 2018 11:40 AM





1 - VINYL WINDOWS
DOUBLE PANE, LOW-E GLAZING

8 - 1x4, 1x6 DOOR AND WINDOW TRIM FIBREGLASS LAMINATED ROOF SHINGLES (30 YEAR) SMOOTH PANEL W/ **BATTENS** OVERHEAD DOOR

(Hardipanel® Vertical Siding) CEDAR SHAKES W/ STAGGERED EDGE (Hardishingle® Siding)

HORIZONTAL LAP SIDING
W/ 6" EXPOSURE
(Hardiplank® Lap Siding)

TIMBER BARK

(James Hardie®)

COBBLE STONE (James Hardie®)

L-----

L____J

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A 2018.04.06 Revision : Site Plan (DP_A1.01) and Bldg1 - 7-Plex Side Elevations (DP_A3.05).

B 2018.05.07 Revision : Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4

B

Kelowna COMMUNITY PLANNING

(7-Plex) Plans and Elevations.

Addition of items as per request of City of

Contractors shall verify all dimensions prior to

This drawing must not be scaled.



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project title

UNION ROAD

project no. 3378

drawing title BLDG'S 2 & 5 - 4-PLEX REAR & LEFT SIDE

designed PMC checked PMC

February 5, 2018 02:26 PM

2 LEFT SIDE ELEVATION (4-PLEX) DP A3.01 SCALE: 1/4" = 1'-0"

REAR ELEVATION (4-PLEX)

DP A3.01 SCALE: 1/4" = 1'-0"

MATERIALS LEGEND:

(2) - FIBERGLASS ENTRY DOOR WITH UPPER LITE OR SIDELITE (3) - FIBERGLASS INSULATED

4 - VINYL SLIDING PATIO GLAZED DOORS (5) - 1x10 BAND BOARD

(Harditrim® Planks) 6 - 1x8 FASCIA (Harditrim® Planks)

LAMINATED FIBREGLASS **ROOF SHINGLES**

(Harditrim® Planks)

ALUMINUM EXT. DECK RAILING W/ TEMPERED GLASS INSERTS AND ALUMINUM SIDE MOUNT POSTS

CUSTOM DECORATIVE COLUMNS
 WRAPPED WITH SMOOTH PANEL

(Hardipanel® Vertical Siding)

ARCTIC WHITE (James Hardie®)

① - CUSTOM GABLE ATTIC VENT W/ DENTIL DETAILING

SCHEDULE This forms part of application

#_DP18-0042 DVP18-0043

Planner Initials





~ TOWNHOMES ~

1931 UNION ROAD, KELOWNA, B.C.

ELEVATIONS (COLOURED)



L----J

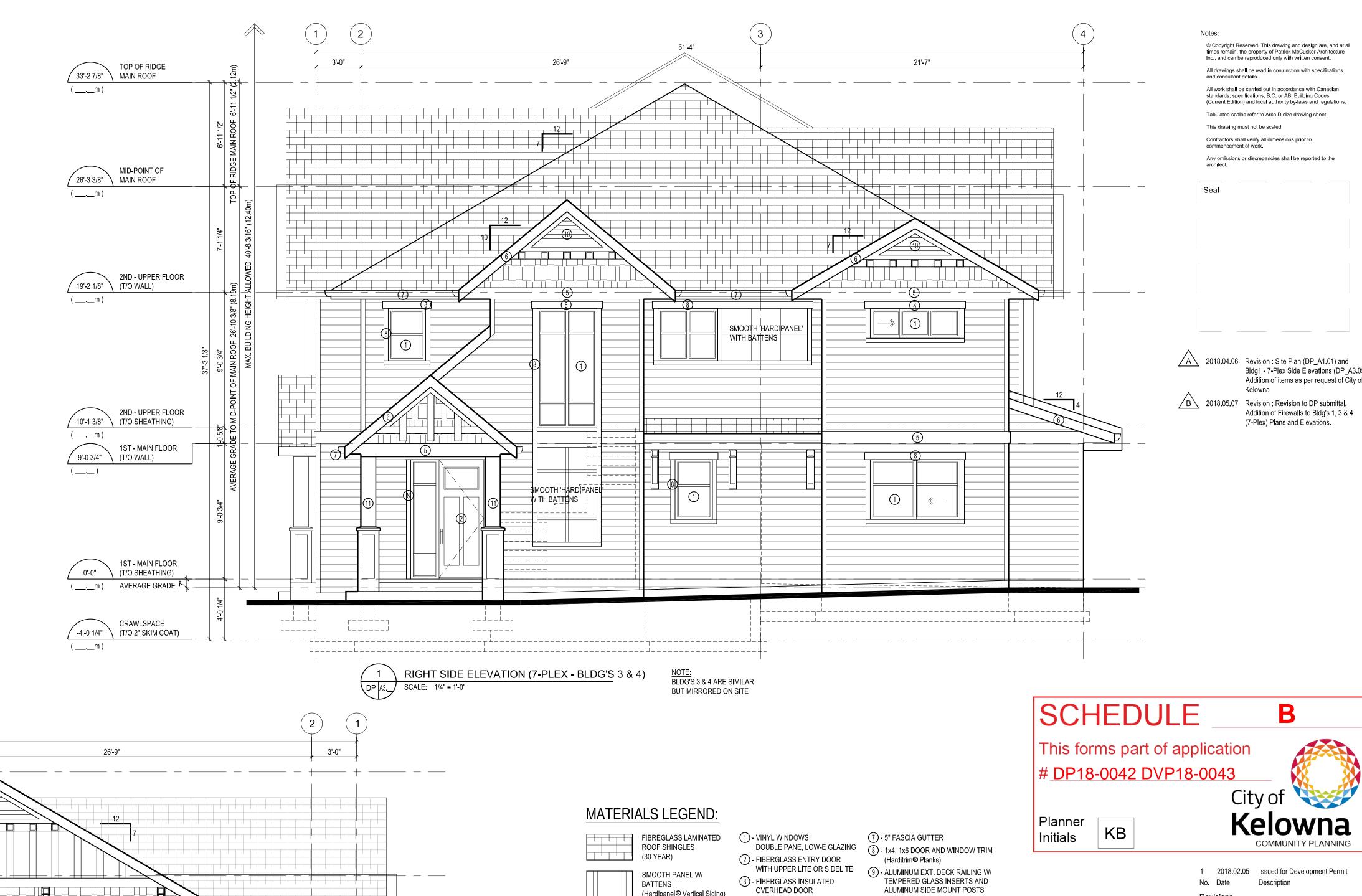
L _ _ _ _ _ J

L____J

DP_A3.10

May 7, 2018 03:08 PM





OVERHEAD DOOR

(10) - CUSTOM GABLE ATTIC VENT W/ DENTIL DETAILING

1) - CUSTOM DECORATIVE COLUMNS WRAPPED WITH SMOOTH PANEL

(Hardipanel® Vertical Siding)

4 - VINYL SLIDING PATIO

GLAZED DOORS

(Harditrim® Planks)

(Harditrim® Planks)

(5) - 1x10 BAND BOARD

6 - 1x8 FASCIA

(Hardipanel® Vertical Siding)

CEDAR SHAKES W/

STAGGERED EDGE

W/ 6" EXPOSURE

(Hardishingle® Siding)

HORIZONTAL LAP SIDING

(Hardiplank® Lap Siding)



BUT MIRRORED ON SITE

DP A3. SCALE: 1/4" = 1'-0"



DP18-0042 DVP18-0043

1 2018.02.05 Issued for Development Permit No. Date Description

Bldg1 - 7-Plex Side Elevations (DP_A3.05). Addition of items as per request of City of

(7-Plex) Plans and Elevations.



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project title

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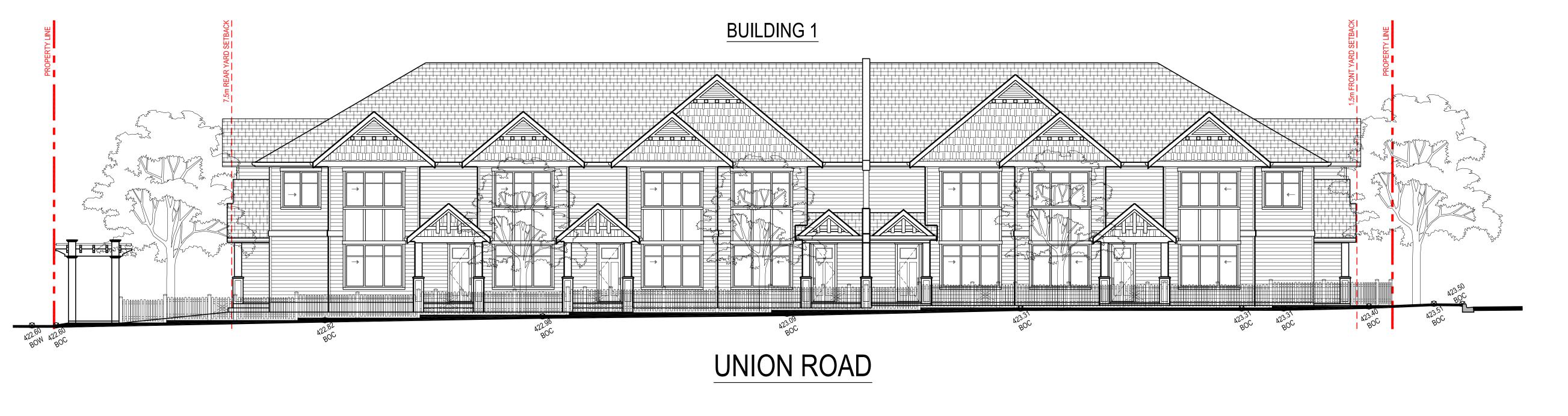
project no. 3378

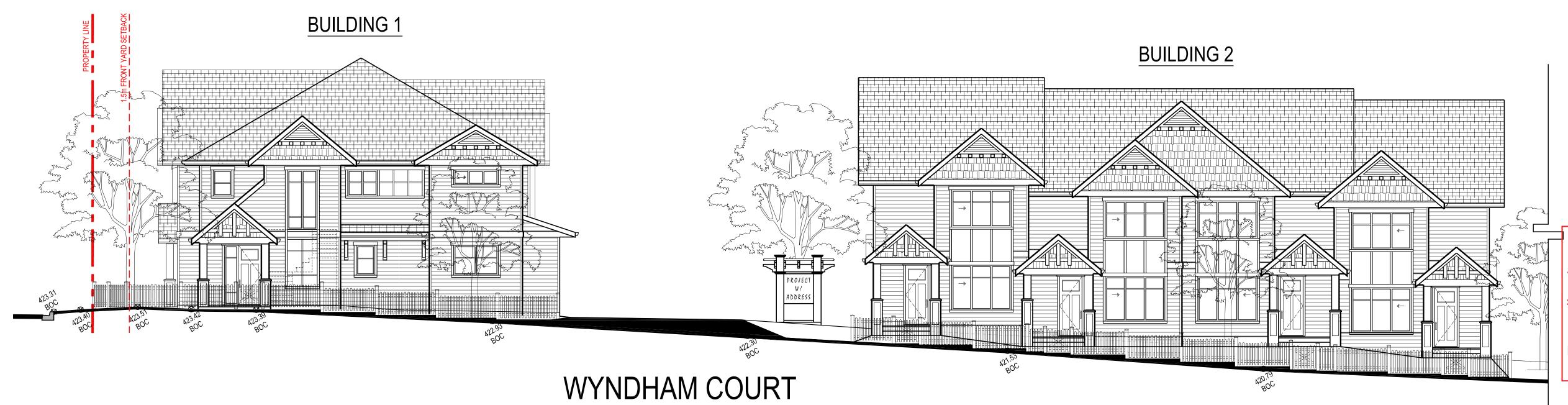
drawing title BLDG'S 3 & 4 - 7-PLEX RIGHT & LEFT SIDE **ELEVATIONS**

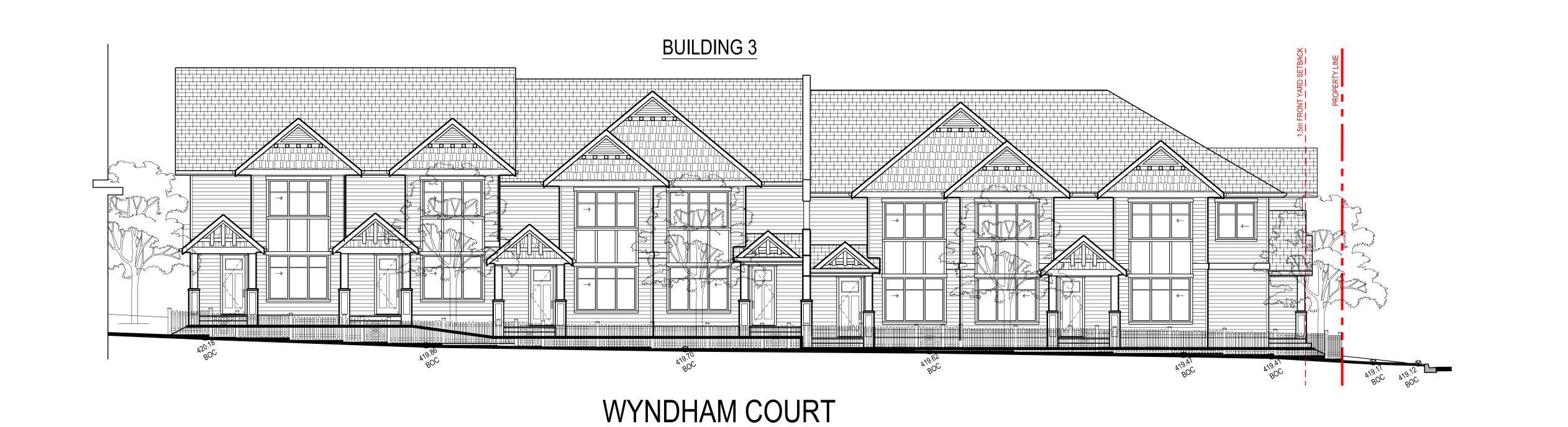
designed	PMC	scale	1/4" = 1'-0"
drawn			
checked	PMC		
drawing no).		

DP_A3.12

plotted May 7, 2018 03:07 PM







SCHEDULE

This forms part of application #_DP18-0042 DVP18-0043

Planner Initials

KB

Kelowna COMMUNITY PLANNING 1 2018.02.05 Issued for Development Permit No. Date Description

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B 2018.05.07 Revision : Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4
(7-Plex) Plans and Elevations.

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KELOWNA BC V1W 4M5
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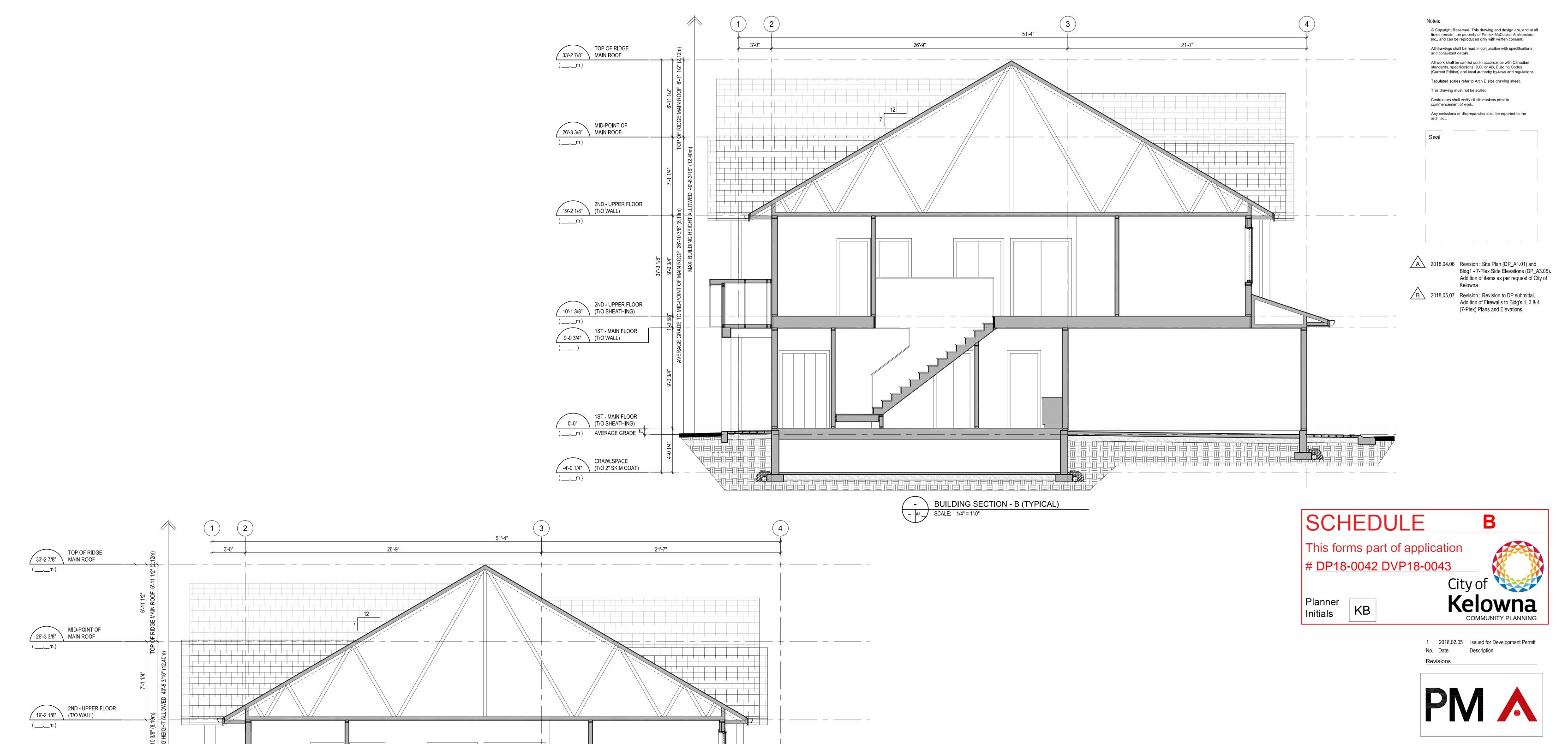
project no. 3378

drawing title BLDG'S 1,2 & 3 FRONT ELEVATION STREETSCAPE

checked PMC

DP_A3.20

plotted May 7, 2018 03:14 PM



2ND - UPPER FLOOR (T/O SHEATHING)

1ST - MAIN FLOOR (T/O WALL)

1ST - MAIN FLOOR (T/O SHEATHING)

AVERAGE GRADE F

CRAWLSPACE (T/O 2" SKIM COAT)

BUILDING SECTION - C (TYPICAL)

SCALE: 1/4" = 1'-0"

9'-0 3/4" (___.__)

-4'-0 1/4" (___._m)

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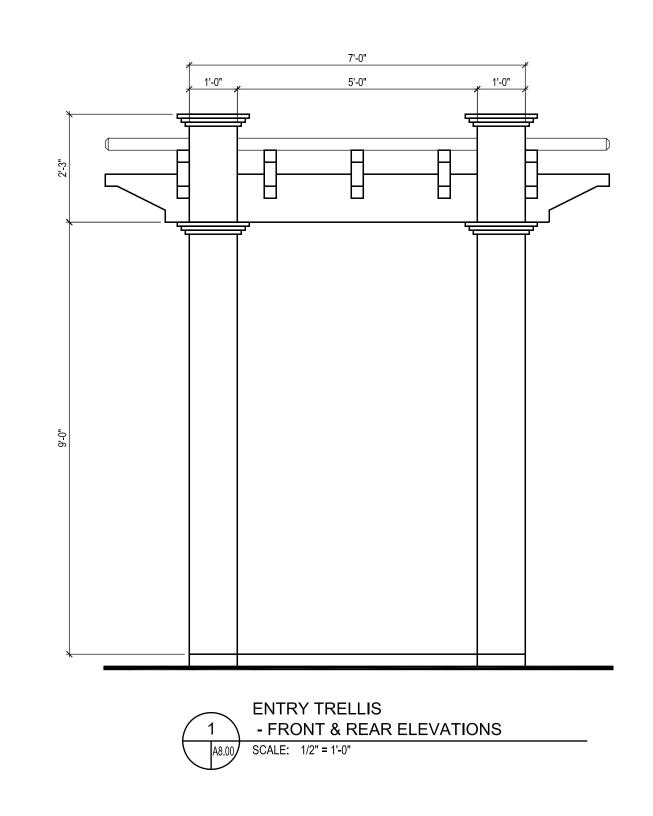
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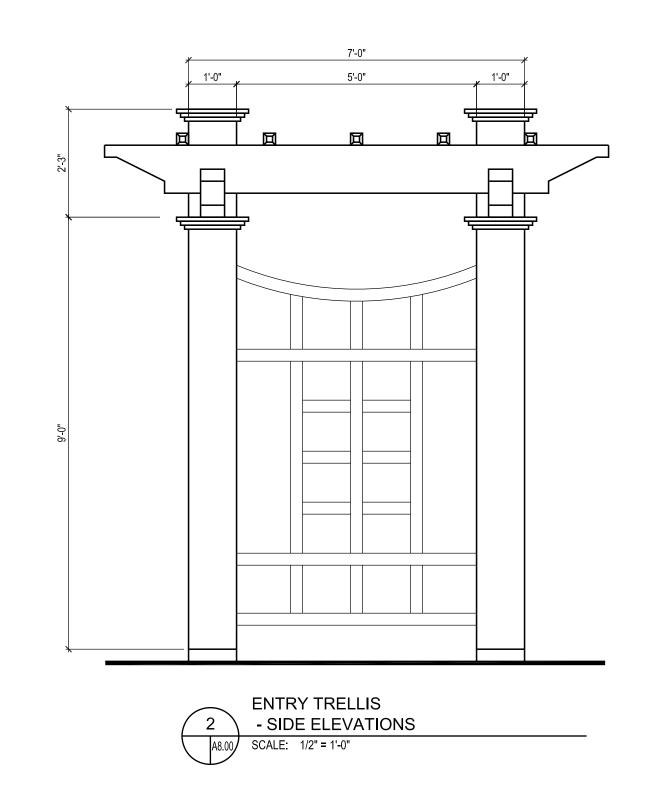
drawing title **BUILDING SECTIONS** (TYPICAL)

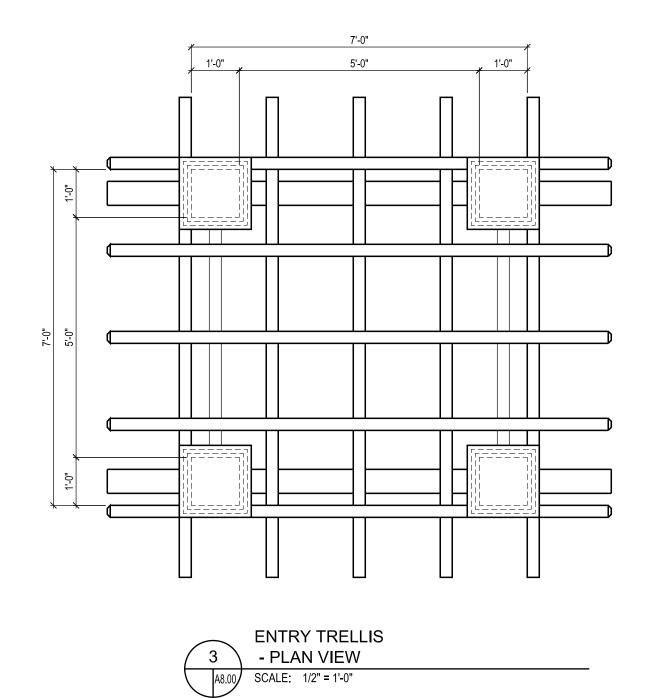
designed	PMC	scale	1/4" = 1'-0"
drawn			
checked	PMC		
drawing r	10.		

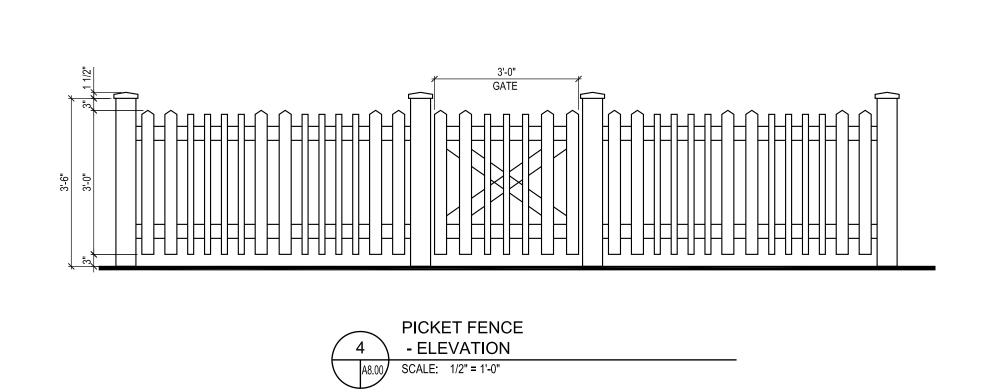
DP_A4.00

plotted May 7, 2018 04:08 PM









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2018.04.06 Revision : Site Plan (DP_A1.01) and Bldg1 - 7-Plex Side Elevations (DP_A3.05). Addition of items as per request of City of

B 2018.05.07 Revision: Revision to DP submittal.
Addition of Firewalls to Bldg's 1, 3 & 4
(7-Plex) Plans and Elevations.

SCHEDULE This forms part of application

#_DP18-0042 DVP18-0043 City of

Planner Initials

KB

COMMUNITY PLANNING 1 2018.02.05 Issued for Development Permit No. Date Description

B

Kelowna



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KELOWNA BC V1W 4 M 5
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www.pmccarch.com

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project no. 3378

drawing title MISC. EXTERIOR DETAILS

PMC PMC	scale AS NOTED
drawn	
checked PMC	

DP_A8.00

May 7, 2018 04:10 PM

WYNDHAM COURT





303-590 KLO Road Kelowna, BC V1Y 7S2 T (250) 868-9270 www.outlanddesign.ca



PROJECT TITLE

1931 UNION ROAD

Kelowna, BC

DRAWING TITLE

ISSUED FOR / REVISION

CONCEPTUAL LANDSCAPE PLAN

18.05.15	Review
	18.05.15

PROJECT NO	17-147	
DESIGN BY	FB	
DRAVVN BY	NG	
CHECKED BY	FB	
DATE	MAY 15, 2018	
SCALE	1:200	



DRAWING NUMBER

ISSUED FOR REVIEW ONLY

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NOTES

1. PLANT MATERIAL AND CONSTRUCTION METHODS SHALL MEET OR EXCEED C.N.L.A. STANDARDS.

2. ALL SOFT LANDSCAPE AREAS SHALL BE WATERED BY A FULLY AUTOMATIC TIMED UNDERGROUND IRRIGATION SYSTEM.

3. TREE AND SHRUB BEDS TO BE DRESSED IN A MINIMUM 50mm DOUGLAS RED FIR MULCH OR ROCK MULCH, AS SHOWN IN PLANS. DO NOT PLACE WEED MAT UNDERNEATH TREE AND SHRUB BEDS.

4. TREE AND SHRUB BEDS TO RECEIVE A MINIMUM 300mm DEPTH TOPSOIL PLACEMENT.

5. TURF AREAS FROM SOD SHALL BE NO. 1 GRADE GROWN FROM CERTIFIED SEED OF IMPROVED CULTIVARS REGISTERED FOR SALE IN B.C. AND SHALL BE TOLERANT OF DROUGHT CONDITIONS. A MINIMUM OF 100mm DEPTH OF GROWING MEDIUM IS REQUIRED BENEATH TURF AREAS. TURF AREAS SHALL MEET EXISTING GRADES AND HARD SURFACES FLUSH.

PLANT LIST

HEMEROCALLIS 'RUBY STELLA'

IRIS GERMANICA 'BREAKERS'

HOSTA 'NORTHERN EXPOSURE'

PENNISETUM ALOPECUROIDES

LAVANDULA ANGUSTIFOLIA 'HIDCOTE'

BOTANICAL NAME COMMON NAME QTY SIZE/SPACING & REMARKS 18 4cm CAL. AMELANCHIER ALNIFOLIA 'OBELISK' OBELISH SASKATOON GLEDITISA TRIACANTHOS 'SKYLINE' SKYLINE HONEYLOCUST 18 6cm CAL. LIRIODENDRON TULIPIFERA TULIP TREE 4 6cm CAL. SHRUBS ARCTIC FIRE DOGWOOD CORNUS STOLONIFERA 'FARROW' 73 #01 CONT. /1.0M O.C. SPACING EUONYMOUS ALATUS 'COMPACTA' DWARF WINGED BURNING BUSH 23 #01 CONT. /1.75M O.C. SPACING 32 #01 CONT. /1.5M O.C. SPACING HYDRANGEA PANICULATA 'JAN' LITTLE LIME HYDRANGEA PICEA PUNGENS 'GLOBOSA' DWARF GLOBE BLUE SPRUCE 18 #01 CONT. /2.0M O.C. SPACING ROSA 'MORDEN FIREGLOW' MODEN FIREGLOW ROSE 73 #01 CONT. /1.0M O.C. SPACING SYRINGA MEYERI 'PALIBIN' DWARF KOREA LILAC 32 #01 CONT. /1.5M O.C. SPACING PERENNIALS & GRASSES 58 #01 CONT. /0.6M O.C. SPACING ACHILLEA 'PAPRIKA' PAPRICA YARROW CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS 38 #01 CONT. /0.75M O.C. SPACING ECHINACEA PUPUREA 'MAGNUS' PURPLE CONEFLOWER 78 #01 CONT. /0.6M O.C. SPACING GALLARDIA GRADIFLORA 'BURGUNDY'

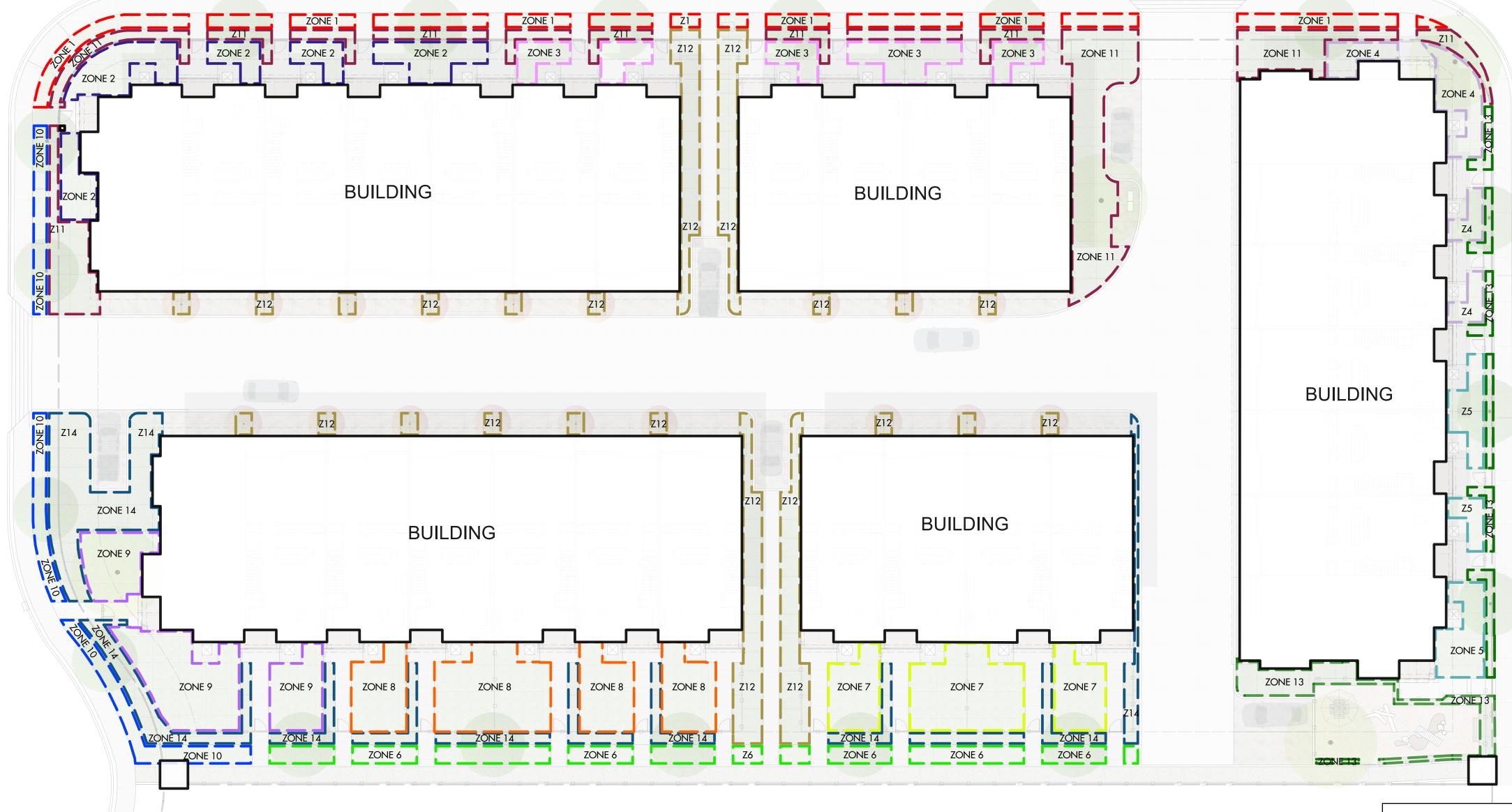
BURGUNDY BLANKET FLOWER RUBY STELLA DAYLILY

84 #01 CONT. /0.5M O.C. SPACING 58 #01 CONT. /0.6M O.C. SPACING NORTHERN EXPOSURE HOSTA 15 #01 CONT. /1.2M O.C. SPACING BLUE BEARDED IRIS 58 #01 CONT. /0.6M O.C. SPACING HIDCOTE ENGLISH LAVENDER 58 #01 CONT. /0.6M O.C. SPACING FOUNTAIN GRASS 21 #01 CONT. /1.0M O.C. SPACING WYNDHAM COURT

SCHEDULE This forms part of application #_DP18-0042 DVP18-0043 City of Kelowna Planner KB



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WATER CONSERVATION CALCULATIONS

LANDSCAPE MAXIMUM WATER BUDGET (WB) = 1714 cu.m. / year ESTIMATED LANDSCAPE WATER USE (WU) = 1606 cu.m. / year WATER BALANCE = 108 cu.m. / year *REFER ATTACHED IRRIGATION APPLICATION FOR DETAILED CALCULATIONS

IRRIGATION NOTES

- 1. IRRIGATION PRODUCTS AND INSTALLATION METHODS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE WATER USE REGULATION BYLAW NO. 10480 AND THE SUPPLEMENTARY SPECIFICATIONS IN THE CITY OF KELOWNA BYLAW 7900 (PART 6, SCHEDULE 5).
- 2. THE IRRIGATION SYSTEM SHALL MEET THE REQUIREMENTS, REGULATIONS, AND BYLAWS OF THE WATER PURVEYOR.
- 3. THE IRRIGATION SYSTEM SHALL BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTION DEVICE, WATER METER, AND SHUT OFF VALVE LOCATED OUTSIDE THE BUILDING ACCESSIBLE TO THE CITY.
- 4. AN APPROVED SMART CONTROLLER SHALL BE INSTALLED. THE IRRIGATION SCHEDULING TIMES SHALL UTILIZE A MAXIMUM ET VALUE OF 7" / MONTH (KELOWNA JULY ET), TAKING INTO CONSIDERATION SOIL TYPE, SLOPE, AND MICROCLIMATE.
- 5. DRIP LINE AND EMITTERS SHALL INCORPORATE TECHNOLOGY TO LIMIT ROOT INTRUSION.
- 6. IRRIGATION SLEEVES SHALL BE INSTALLED TO ROUTE IRRIGATION LINES UNDER HARD SURFACES AND FEATURES.
- 7. IRRIGATION PIPE SHALL BE SIZED TO ALLOW FOR A MAXIMUM FLOW OF 1.5m /SEC.
- 8. A FLOW SENSOR AND MASTER VALVE SHALL BE CONNECTED TO THE CONTROLLER AND PROGRAMMED TO STOP FLOW TO THE SYSTEM IN CASE OF AN IRRIGATION WATER LEAK.

IRRIGATION LEGEND

ZONE #1: LOW VOLUME POP-UP SPRAYHEADS FOR TURF AREAS

TOTAL AREA: 105 sq.m. MICROCLIMATE: WEST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 150 cu.m.

ZONE #2: LOW VOLUME POP-UP SPRAYHEADS FOR TURF AREAS TOTAL AREA: 83 sq.m. MICROCLIMATE: WEST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 119 cu.m.

ZONE #3: LOW VOLUME POP-UP SPRAY HEADS FOR TURF AREAS TOTAL AREA: 62 sq.m. MICROCLIMATE: WEST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 89 cu.m.

ZONE #4: LOW VOLUME POP-UP SPRAY HEADS FOR TURF AREAS TOTAL AREA: 51 sq.m. MICROCLIMATE: NORTH WEST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 73 cu.m.

TOTAL AREA: 81 sq.m. MICROCLIMATE: NORTH EAST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 116 cu.m.

ZONE #5: LOW VOLUME POP-UP SPRAYHEADS FOR TURF AREAS

ZONE #6: LOW VOLUME POP-UP SPRAY HEADS FOR TURF AREAS TOTAL AREA: 99 sq.m.

MICROCLIMATE: EAST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 141 cu.m.

ZONE #7: LOW VOLUME POP-UP SPRAY HEADS FOR TURF AREAS TOTAL AREA: 100 sq.m. MICROCLIMATE: EAST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 143 cu.m.

ZONE #8: LOW VOLUME POP-UP SPRAYHEADS FOR TURF AREAS TOTAL AREA: 125 sq.m. MICROCLIMATE: EAST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 179 cu.m.

ZONE #9: LOW VOLUME POP-UP SPRAY HEADS FOR TURF AREAS TOTAL AREA: 104 sq.m.

MICROCLIMATE: SOUTH EAST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 149 cu.m.

ZONE #10: LOW VOLUME POP-UP SPRAY HEADS FOR TURF AREAS

MICROCLIMATE: SOUTH EXPOSURE, PARTIALLY SHADED BY TREES

TOTAL AREA: 62 sq.m.

ESTIMATED ANNUAL WATER USE: 89 cu.m.

WATER USE PLANTING AREAS

ZONE #11: HIGH EFFICIENCY SUBSURFACE DRIP IRRIGATION FOR FOR MODERATE

ZONE #12: HIGH EFFICIENCY SUBSURFACE DRIP IRRIGATION FOR FOR MODERATE

MICROCLIMATE: SOUTH EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING

ZONE #13: HIGH EFFICIENCY SUBSURFACE DRIP IRRIGATION FOR FOR

MICROCLIMATE: NORTH EXPOSURE, PARTIALLY SHADED BY TREES

MICROCLIMATE: WEST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING

WATER USE PLANTING AREAS

WATER USE PLANTING AREAS

ESTIMATED ANNUAL WATER USE: 114 cu.m.

ESTIMATED ANNUAL WATER USE: 109 cu.m.

MODERATE WATER USE PLANTING AREAS

ESTIMATED ANNUAL WATER USE: 45 cu.m.

TOTAL AREA: 206 sq.m.

TOTAL AREA: 196 sq.m.

TOTAL AREA: 81 sq.m.

ZONE #14: HIGH EFFICIENCY SUBSURFACE DRIP IRRIGATION FOR FOR MODERATE

TOTAL AREA: 192 sq.m. MICROCLIMATE: SOUTH EAST EXPOSURE, PARTIALLY SHADED BY TREES & BUILDING ESTIMATED ANNUAL WATER USE: 107 cu.m.



PROJECT TITLE

1931 UNION ROAD

Kelowna, BC

DRAWING TITLE

WATER CONSERVATION **PLAN**

1	18.05.15	Review
2		
3		
4		
5		

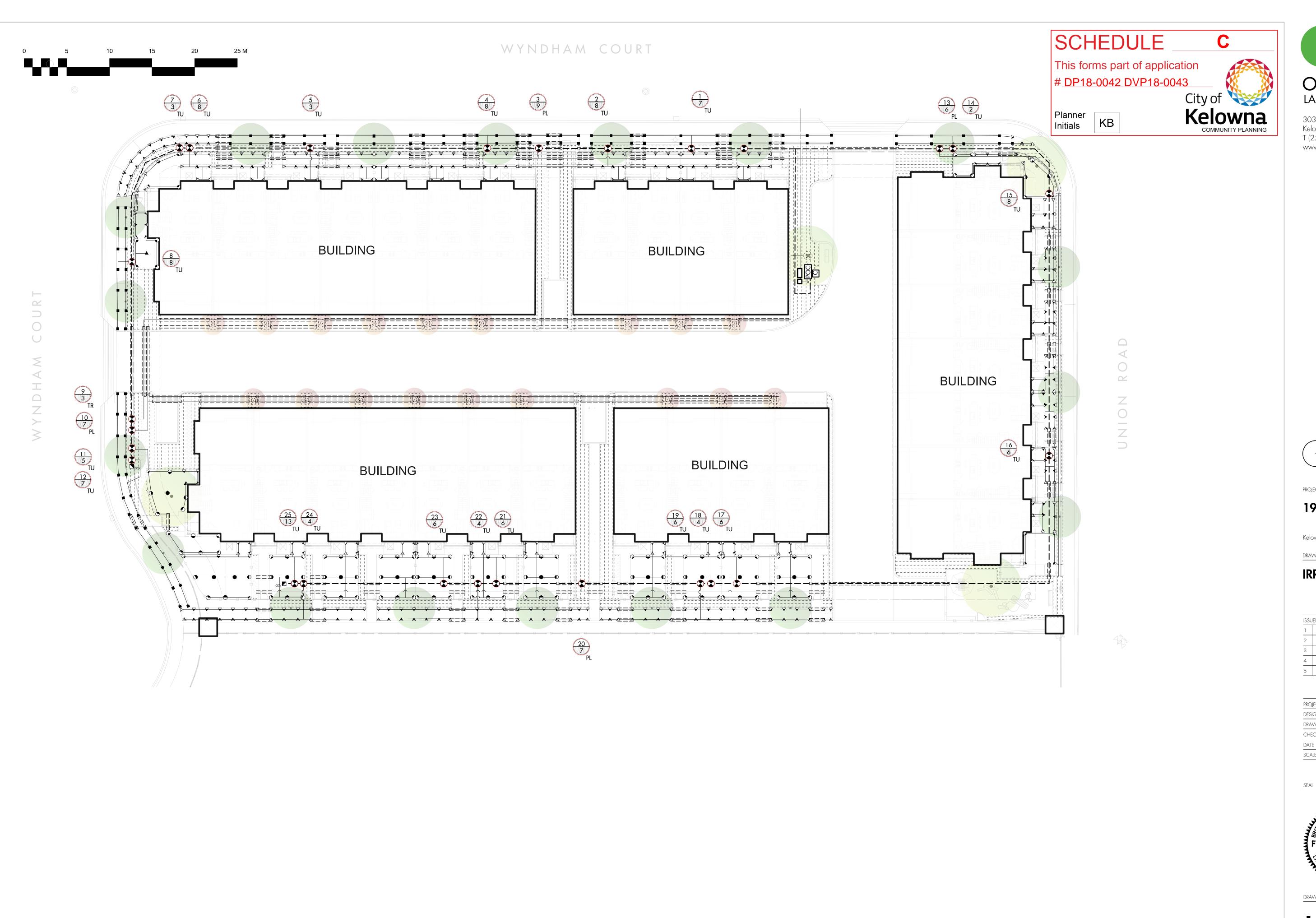
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DRAWN BY	NG
CHECKED BY	FB
DATE	MAY 15, 2018
SCALE	1:200



DRAWING NUMBER

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PROJECT TITLE

1931 UNION ROAD

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DRAWING TITLE

IRRIGAITON PLAN

ISSU	ed for / revision	
1	18.05.15	Review
2		
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