

File No.: 04-1000-20-2020-098

April 24, 2020

s.22(1)

Dear s.22(1)

Re: **Request for Access to Records under the Freedom of Information and Protection of Privacy Act (the "Act")**

I am responding to your request of February 5, 2020 for:

Documentation and plans for 95 East 14th Avenue related to Building Permits BP-2018-05371 and BP-2019-01801. Date range: December 1, 2018 - December 31, 2019.

All responsive records are attached. Some information in the records has been severed, (blacked out), under s.22(1) of the Act. You can read or download this section here: http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/96165_00

Building permits are routinely available on a fee for service basis from the Property Research branch of the Development, Buildings, and Licensing Department. Please email property.research@vancouver.ca or see the following link for more information: <https://vancouver.ca/home-property-development/get-copies-of-your-building-plans.aspx>

Under section 52 of the Act, and within 30 business days of receipt of this letter, you may ask the Information & Privacy Commissioner to review any matter related to the City's response to your FOI request by writing to: Office of the Information & Privacy Commissioner, info@oipc.bc.ca or by phoning 250-387-5629.

If you request a review, please provide the Commissioner's office with: 1) the request number (#04-1000-20-2020-098); 2) a copy of this letter; 3) a copy of your original request; and 4) detailed reasons why you are seeking the review.

Yours truly,

Cobi Falconer, FOI Case Manager, for

[Signature on file]

Barbara J. Van Fraassen, BA
Director, Access to Information & Privacy

Barbara.vanfraassen@vancouver.ca
453 W. 12th Avenue Vancouver BC V5Y 1V4

*If you have any questions, please email us at foi@vancouver.ca and we will respond to you as soon as possible. Or you can call the FOI Case Manager at 604.871.6584.

Encl.

:kt

Mahpour, Hamid

From: Mahpour, Hamid
Sent: Wednesday, May 01, 2019 9:06 AM
To: Renter Office; Ellis, Sarah
Subject: 95 E 14 AV, BP-2019-01801

Permit application BP-2019-01801 is opened for renovation to the rental building at 95 E 14 Avenue. Included in the renovation is changes to layout of the units and replacement of exterior windows. BP-2018-05371 was also issued in December 2018 for re-piping of the said building.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

Energy Checklist for Alterations to Existing Buildings (90.1-2016 & Energy Upgrade Trigger)

Building Address :	95	E 14TH AVENUE	Building Permit Application No.:	BP-2019-01801
Tenancy Address :				

This form is to be completed digitally. For ease of use, drop boxes and pop-up instructions are included.

IMPORTANT - Submission Format and Process:

Effective June 3, 2019, this Alterations checklist is to be completed and submitted at the Permit application stage. Submit as hard copy, and later in digital format via email to the appropriate account (see Intro tab). Include all relevant documents pertaining to scope of work. Subject line to include project address then building permit application number (BP# or DB#).

Space Use, Area & Performance Information

Indicate all that apply:

Major Reno	Voluntary Upgrade
------------	-------------------

Primary Use/Area:	Res (Multifamily-Common Areas)	1,545	100%
Second Use/Area:			
Tertiary Use/Area:			
Total Area (m ²):	Res (Multifamily-Common Areas)	1,545	

TI Space(s)	Non-residential Cond'd Space Area (m ²):	
	Resid Cond'd Common Space Area (m ²):	365.2
	Sealed Space Area (m ²):	0.0
	Is p c access via an outdoor entrance?	Yes
	Is existing outdoor entrance being modified?	No

Neighbourhood Energy (N/E) Systems

If within a Neighbourhood Energy area, indicate which system:

Base Building's N/E status:

TI's thermal energy requirement:

VBBL - Part 10 Energy - ASHRAE 90.1 - 2016 Deliverables

Are Reg'd Professionals involved with this project?

Prescriptive Option - Deliverables (Required):

Sect 5) Building Envelope [Info](#) Neil Robertson, Stuart Howard Architects **Applicability:**

[Building Envelope Compliance Form \(Part I\)](#) Energy Statements on Drawings Dwg #:

[Building Envelope Compliance Form \(Part II\)](#) Complies with 5.1.3 Envelope Alterations of 90.1

or; ☒ [Building Envelope Energy Performance Comparison Calculator](#)

Sect 6) HVAC [Info](#) Carlo Ambito, CADA & Associates Consulting Ltd. **Applicability:**

[HVAC Simplified Approach](#) Energy Statements on Drawings Dwg #:

or both of the following; Complies with 6.1.1.2 Additions to Existing Buildings

[Mandatory Provisions](#) Complies with 6.1.1.3 Alterations to HVAC in EB

[Prescriptive Requirements](#) Source of Ventilation design:

Sect 7) Service Water Heating [Info](#) Carlo Ambito, CADA & Associates Consulting Ltd. **Applicability:**

[Service Water Heating Compliance Forms](#) Energy Statements on Drawings Dwg #:

Electric/Gas Water Heating System is Allowed Complies with 7.1.1.3 Alterations to Existing Buildings

Sect 8) Power Carlo Ambito, CADA & Associates Consulting Ltd. **Applicability:**

Sect 9) Lighting [Info](#) Carlo Ambito, CADA & Associates Consulting Ltd. **Applicability:**

☒ [Lighting Compliance Forms \(pdf\)](#) Energy Statements on Drawings Dwg #:

or the following; Drawing: Reflected Ceiling Plan Dwg #:

[Lighting Compliance Doc \(excel\)](#) Complies with 9.1.2 Lighting Alterations

VBBL - Part 11 Existing Buildings - Energy Upgrade Mechanism

Exemption:

Building Status: Based on scope BOMA BEST? 90.1-2007 or better?

Categories of Alterations

Path Options

Rehabilitation - Voluntary Upgrade (N/A)	Voluntary Upgrade - No Additional Upgrades Required
Rehabilitation - Major Renovation (E4)	E4 - Retrofit Path: 1 @ L4

Dominant Option:

Option Chosen and Incorporated into Project Drawings (indicate drawing numbers)

L4 - BEnv - Upgrade all Fenestration/Glazing Performance (per 5.5.4.3 and 5.5.4.4 of ASHRAE 90.1-2016)	Dwg #: A0 01
Other:	Dwg #:

TABLE 9.6.1 Lighting Power Densities Using the Space-by-Space Method

Common Space Types ^a	LPD, W/ft ²	RCR Threshold
Atrium		
First 40 ft in height	0.03 per ft (height)	NA
Height above 40 ft	0.02 per ft (height)	NA
Audience/Seating Area—Permanent		
For auditorium	0.79	6
For Performing Arts Theater	2.43	8
For Motion Picture Theater	1.14	4
Classroom/Lecture/Training	1.24	4
Conference/Meeting/Multipurpose	1.23	6
Corridor/Transition	0.66	Width < 8 ft
Dining Area	0.65	4
For Bar Lounge/Leisure Dining	1.31	4
For Family Dining	0.89	4
Dressing/Fitting Room for Performing Arts Theater	0.40	6
Electrical/Mechanical	0.95	6
Food Preparation	0.99	6
Laboratory		
For Classrooms	1.28	6
For Medical/Industrial/Research	1.81	6
Lobby	0.90	4
For Elevator	0.64	6
For Performing Arts Theater	2.00	6
For Motion Picture Theater	0.52	4
Locker Room	0.75	6
Lounge/Recreation	0.73	4
Office		
Enclosed	1.11	8
Open Plan	0.98	4
Restrooms	0.98	8
Sales Area (for accent lighting, see Section 9.6.2(b))	1.68	6
Stairway	0.69	10
Storage	0.63	6
Workshop	1.59	6
Building-Specific Space Types	LPD, W/ft ²	RCR Threshold
Automotive		
Service/Repair	0.67	4
Bank/Office		
Banking Activity Area	1.38	6
Convention Center		

TABLE 9.6.1 Lighting Power Densities Using the Space-by-Space Method (continued)

Building-Specific Space Types	LPD, W/ft ²	RCR Threshold
Audience Seating	0.82	4
Exhibit Space	1.45	4
Courthouse/Police Station/Penitentiary		
Courtroom	1.72	6
Confinement Cells	1.10	6
Judges' Chambers	1.17	8
Penitentiary Audience Seating	0.43	4
Penitentiary Classroom	1.34	4
Penitentiary Dining	1.07	6
Dormitory		
Living Quarters	0.38	8
Fire Stations		
Engine Room	0.56	4
Sleeping Quarters	0.25	6
Gymnasium/Fitness Center		
Fitness Area	0.72	4
Gymnasium Audience Seating	0.43	6
Playing Area	1.20	4
Hospital		
Corridor/Transition	0.89	Width < 8 ft
Emergency	2.26	6
Exam/Treatment	1.66	8
Laundry/Washing	0.60	4
Lounge/Recreation	1.07	6
Medical Supply	1.27	6
Nursery	0.88	6
Nurses' Station	0.87	6
Operating Room	1.89	6
Patient Room	0.62	6
Pharmacy	1.14	6
Physical Therapy	0.91	6
Radiology/Imaging	1.32	6
Recovery	1.15	6
Hotel/Highway Lodging		
Hotel Dining	0.82	4
Hotel Guest Rooms	1.11	6
Hotel Lobby	1.06	4
Highway Lodging Dining	0.88	4
Highway Lodging Guest Rooms	0.75	6
Library		
Card File and Cataloging	0.72	4
Reading Area	0.93	4
Stacks	1.71	4

TABLE 9.6.1 Lighting Power Densities Using the Space-by-Space Method (continued)

Building-Specific Space Types	LPD, W/ft ²	RCR Threshold
Manufacturing		
Corridor/Transition	0.41	Width < 8 ft
Detailed Manufacturing	1.29	4
Equipment Room	0.95	6
Extra High Bay (>50 ft Floor to Ceiling Height)	1.05	4
High Bay (25–50 ft Floor to Ceiling Height)	1.23	4
Low Bay (<25 ft Floor to Ceiling Height)	1.19	4
Museum		
General Exhibition	1.05	6
Restoration	1.02	6
Parking Garage		
Garage Area	0.19	4
Post Office		
Sorting Area	0.94	4
Religious Buildings		
Audience Seating	1.53	4
Fellowship Hall	0.64	4
Worship Pulpit, Choir	1.53	4

TABLE 9.6.1 Lighting Power Densities Using the Space-by-Space Method (continued)

Building-Specific Space Types	LPD, W/ft ²	RCR Threshold
Retail		
Dressing/Fitting Room	0.87	8
Mall Concourse	1.10	4
Sales Area (for accent lighting, see Section 9.6.3(c))	1.68	6
Sports Arena		
Audience Seating	0.43	4
Court Sports Arena—Class 4	0.72	4
Court Sports Arena—Class 3	1.20	4
Court Sports Arena—Class 2	1.92	4
Court Sports Arena—Class 1	3.01	4
Ring Sports Arena	2.68	4
Transportation		
Air/Train/Bus—Baggage Area	0.76	4
Airport—Concourse	0.36	4
Audience Seating	0.54	4
Terminal—Ticket Counter	1.08	4
Warehouse		
Fine Material Storage	0.95	6
Medium/Bulky Material Storage	0.58	4

^a In cases where both a common *space* type and a building-specific type are listed, the building specific *space* type shall apply.

TABLE 9.6.2 Control Factors Used in Calculating Additional Interior Lighting Power Allowance

Additional Control Method (in Addition to Mandatory Requirements).	Space Type				
	Open Office	Private Office	Conference Room, Meeting Room, Classroom (Lecture/Training)	Retail Sales Area	Lobby, Atrium, Dining Area, Corridors/Stairways, Gym/Pool, Mall Concourse, Parking Garage
<i>Manual</i> , continuous dimming control or Programmable multi-level dimming control	0.05	0.05	0.10 ¹	0.10	0
Programmable multi-level dimming control using programmable time scheduling	0.05	0.05	0.10 ¹	0.10	0.10
<i>Multi-level occupancy sensors</i>	0.05	0.05	0.05	0	0
Occupancy sensors controlling the downlight component of workstation specific luminaires with continuous dimming to off capabilities.	0.25 ²	0	0	0	0
Occupancy sensors controlling the downlight component of workstation specific luminaires with continuous dimming to off operation, in combination with personal continuous dimming control of downlight illumination by workstation occupant.	0.30 ^{2,3}	0	0	0	0
<i>Automatic</i> bi-level or multi-level switching in <i>primary sidelighted areas</i> when <i>sidelighting effective aperture</i> is greater than 0.15	0	0	0	0.10 ⁴	0
<i>Automatic</i> bi-level or multi-level switching in <i>primary sidelighted areas</i> when <i>sidelighting effective aperture</i> is greater than 0.15 and when <i>primary sidelighted area</i> is less than 250 ft ²	0.10 ⁴	0.10 ⁴	0.10 ⁴	0.10 ⁴	0.10 ⁴
<i>Automatic continuous daylight dimming</i> in <i>primary sidelighted areas</i> when <i>sidelighting effective aperture</i> is greater than 0.15 and when <i>primary sidelighted area</i> is less than 250 ft ²	0.20 ⁴	0.20 ⁴	0.20 ⁴	0.20 ⁴	0.20 ⁴
<i>Automatic continuous daylight dimming</i> in <i>primary sidelighted areas</i> when <i>sidelighting effective aperture</i> is greater than 0.15 and when <i>primary sidelighted area</i> is greater than 250 ft ²	0.10 ⁴	0.10 ⁴	0.10 ⁴	0.10 ⁴	0.10 ⁴
<i>Automatic continuous daylight dimming</i> in <i>secondary sidelighted areas</i> when <i>sidelighting effective aperture</i> is greater than 0.3	0.10 ⁴	0.10 ⁴	0.10 ⁴	0.10 ⁴	0.10 ⁴
<i>Automatic continuous daylight dimming</i> in <i>daylighted areas under skylights</i> when the total of those areas is less than 900 ft ² and when <i>skylight effective aperture</i> is greater than 0.01	0.20	0.20	0.20	0.20	0.20
<i>Automatic continuous daylight dimming</i> in <i>daylighted areas under skylights</i> when the total of those areas is greater than 900 ft ² and when <i>skylight effective aperture</i> is greater than 0.01	0.10	0.10	0.10	0.10	0.10

¹These *control* factors may only be used if the requirements of section 9.4.1.2 are met using an *occupancy sensor*

² *Control* factor is limited to the wattage of workstation-specific *luminaires* in partitioned single occupant workspaces contained within an open office environment (i.e. direct-indirect *luminaires* with separately controlled downlight and uplight components, with the downward component providing illumination to a single occupant in an open plan workstation) Within 30 minutes of the occupant leaving the *space*, the downward component shall continuously dim to off over a minimum of 2 minutes. Upon the occupant entering the *space*, the downward component shall turn on at the minimum level and continuously raise the illumination to a *preset* level over a minimum of 30 seconds. The uplight component of workstation specific luminaire shall comply with section 9.4.1.1 (*automatic* shutoff)

³ In addition to the requirements described in footnote 2, the *control* shall allow the occupant to select their preferred light level via a personal computer, handheld device, or similarly accessible device located within the workstation

⁴*Control* factors may not be used if *controls* are used to satisfy exceptions to Section 5.5.4.2.3

Lighting Compliance Documentation

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Project Name: Apartment Building Q14		
Project Address: 95 East 14th Avenue, Vancouver, B.C.		Date: 2019-08-26
Designer of Record: Carlo Ambito, ASCT, LEED AP	Email: carlo.ambito@cadaconsultants.com	Telephone: 604.210.0021
Contact Person: Carlo Ambito, ASCT, LEED AP	Email: carlo.ambito@cadaconsultants.com	Telephone: 604.210.0021
City: Vancouver, B.C.		Exterior Lighting Zone:

Mandatory Provisions Checklist

- ☒ Lighting Control (9.4.1)
 - ☐ Automatic lighting shutoff controls are provided based on either a scheduling device or an occupant sensor (9.4.1.1)
 - ☒ Each enclosed space has its own control including bilevel or occupancy based where required (9.4.1.2)
 - ☐ Controls for parking garages, including bilevel, transition and perimeter control as required (9.4.1.3)
 - ☐ Automatic daylighting controls for primary sidelighted areas (9.4.1.4)
 - ☐ Automatic daylighting controls for toplighting (9.4.1.5)
 - ☒ Additional controls for display/accent, case, guest room, task, nonvisual and demonstration lighting applications (9.4.1.6)
 - ☐ Exterior lighting controls including automatic shutoff and bilevel as required (9.4.1.7)
- ☒ Exit signs do not exceed 5 W per face (9.4.2)
- ☐ Exterior lighting power (9.4.3) — See worksheet
- ☒ Functional testing completed on specified controls (9.4.4)

Interior Lighting Power Allowance (Building Area Method – 9.5)

Building ID	Building Type (9.5.1)	Lighting Power Density, W/ft ² (W/m ²)	Building Area, ft ² (m ²)	Lighting Power Allowance (W)
Total				

Interior Lighting Power Allowance (Space-by-Space Method – 9.6)

Space ID	Building Type/Space Type (9.6.1)	Lighting Power Density, W/ft ² (W/m ²)	Room Cavity Ratio	Space Area, ft ² (m ²)	Lighting Power Allowance (W)
	LIVING QUARTERS	0.38	8	16446 SF	6249.48
Subtotal					6249.48
Controls Allowance (9.6.2c)					N/A
Total					6249.48

Lighting Compliance Documentation

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Project Name: Apartment Building Q14

Contact Person: Carlo Ambito, ASCT, LEED AP

Email: carlo.ambito@cadaconsultants.com

Telephone: 604.210.0021

Interior Connected Lighting Power

ID	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Type						Number of Luminaires	Watts/ Luminaire	Total Watts
		Incandescent	Fluorescent	HID	Line-Voltage Track	Low-Voltage Track	Other			
B	UNDERCABINET PUCK LIGHT (LED)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	89	8	712
S1	12" ROUND SURFACE POT LIGHT (LED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	83	15	1245
S2	6" ROUND SURFACE POT LIGHT (LED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	75	15	1125
S3	6" ROUND SURFACE POT LIGHT (LED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	64	15	960
W1	WALL SCONCE LIGHT (LED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	26	15	390
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Total										4432

Additional Interior Lighting Power Allowance—Control Credits

Space ID	Space Name	Control Type (Table 9.6.2)	Control Factor (Table 9.6.2)	Installed Watts (W)	Additional Allowance (W)
Total					

Additional Interior Lighting Power Allowance – Decorative and Display

Space ID	Space Name	Type		Area, ft² (m²)	Unit Allowance, W/ft² (W/m²)	Allowance (W)	Lumin- aire ID's	Installed Power (W)
		Decorative	Display Lighting					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					

Lighting Compliance Documentation

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Exterior Building Lighting Power Allowance (Tradable Lighting Applications)

Application	Allowance	Area or Length, ft ² or ft (m ² or m)	Tradable Power Allowance
Tradable Power Allowance			

Exterior Building Lighting Power Allowance (Non-Tradable Lighting Applications)

ID	Application	Allowance per Unit	Area or Length or Quantity	Non-Tradable Power Allowance
Non-Tradable Power Allowance				

Exterior Connected Lighting Power (Tradable Applications)

ID	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Number of Luminaires	Watts/ Luminaire	Total Watts
Total				

Exterior Connected Lighting Power (Non-Tradable Applications)

ID	Non-Tradable Application	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Number of Luminaires	Watts/ Luminaire	Total Watts
Total					

Exterior Lighting Compliance Test

	Tradable Power Allowance (Watts)	+	Base site allowance	≥	Tradable Connected Lighting Power (Watts)
Non-Tradable Application	Non-Tradable Power Allowance (Watts)	+		≥	Non-Tradable Connected Lighting Power (Watts)
		+		≥	
		+		≥	
		+		≥	
			Allocated base site allowance		Unallocated base site allowance
				≤	

	AREAS and ITEMS	COMMENTS	REQ'D Y/N	RCV'D ✓	ACC/RJT A/R
TYPE OF WORK					
	95 E 14 AV, BP-2019-01801		NA	Not applicable	
	Exsting BUILDING ■	3 Storey, (Multidwelling), Does NOT have sprinkler Sys.	NR	Not required	
	Renovation to all 3 storey of dwellings (26 units)	Upgrades >>> Major Reno >>> F2, S2, N3, A3, and E4			
DOCUMENTATION					
	Heritage Alteration permit		N		
	Owner's Undertaking Letter		Y	Y	
	Lessee Undertaking Letter		N		
	Matching Development drawings		NA		
	Schedule A		Y	Y	
	Architectural B	1.25	Y	N	
	Structural B >>> Struct Eng required if under Part 3		Y	Y	
	Structural Concept Review need not be Struct Eng		Y	Y	
	Mechanical B		Y	N	
	Plumbing B		Y	Y	
	Hood Fire Supression Sch B		N		
	Electrical B		Y	Y	
	Geotechnical B		N		
	Building Envelope D1	Building complies with Part 5 of VBBL	Y	N	
	Sprinkler system schedule B and sprinkler permit applied for (otherwise a letter from the professional that sprinkler system is not modified)		NA		
	Energy	Submitted wrong forms + digital	Y	N	
	Energy statement on drawings		N		
	Kitchen Ventilation form		N		
	Duct cleaning letter		N		
	Access for duct maintenance		N		
	Building permit data sheet		Y		A
	Code Report		N		
	Strata letter of approval for the proposal		N		
DOCUMENTATION ON ARCHITECTURAL DRAWINGS					
	Reference to VBBL	Architectural Sch B	Y	Y	
	Upgrade requirements of the project		Y	Y	
	Part 5 design statement	Sch D1 not submitted	Y	N	

	Window schedule		Y	Y	
	Door schedule	It is not completed. Need to include info on all exits and main entrance to dwellings	Y	N	
3.4.1. - 3.4.4. EXITING					
3.4.2.1	Number of Exits and Remoteness	exit stairs, exit corridor, and lobby details are not provided	Y	N	
3.4.2.4	Travel Distance to an Exit		Y	Y	
3.4.3.2	Required Exit Width based on occupant load:				
	Storey: 1st 2nd 3rd 4th				
	Occupant Load: 54 PERSON (Dwellings)		Y	Y	
	Exit Capacity:		Y	Y	
3.4.3.2	Minimum Exit Width:		Y	Y	
3.4.3.2	Max. 50% capacity per exit		Y	Y	
3.4.4.1	FRR of Exit Separations				
3.4.4.2	Lobby Exit				
	15m / Permitted occupancies / FS / FRR		Y	N	
3.4.4.4	Integrity of Exits				
	For the suite		Y	N	
	New exit sign		Y	N	
3.4.6. EXITING - TYPES OF EXIT FACILITIES					
	Stair details		Y	N	
	Open: No, this is a part 3 building				
	Width:				
	Rise				
	Run				
	Flight Vertical Rise:				
	Door swing clearance:				
	Direction of door swing:				
	Handrails / Guards		Y	N	
	Climability:				
	Guards:				
	Continuation / Extension				
	Height:				
	Headroom		Y	N	
	Stairs: / Landings / Rooms / Doorways / Parkades / Mezz:				
	Landings:				
	Rooms:				
	Doorways:		Y	N	
	Mezzanines:				
	Parkades: Ambulatory: Y / N Non Ambulatory: Y / N				
3.3.1. SAFETY IN FLOOR AREAS - ALL FLOOR AREAS					

	Separation of Suites	F2 upgrade does not requires upgrading suite separation unless travel distance to exit does not work	NA		
3.3.1.1	Suite separation FRR required:				
3.3.1.1	2hr FRR for ground level commercial suites?				
	Corridors:				
	Rating required: Y / N Rating:	Not provided	Y	N	
	Rating for load bearing walls		NA		
	Y / N Rating:				
9.9.8.2	Travel distance				
	Length (m):		Y	Y	
3.7 HEALTH REQUIREMENTS					
	WC number				
	Occupant load: Dwellings Male / Female / D/A stalls / Toilet room / Lavatories		Y	Y	
3.8. ACCESSIBILITY					
	A3 upgrade to residential building	For A3 upgrade only the main entrance requires being accessible.	Y	?	
	Access to building				
	Parking				
	Provided: Y / N Notes:				
	Main entrance accessible to all				
	Provided: Y / N Notes:				
	Signage information and direction				
	Provided: Y / N Notes:				
	Access within building				
	Public facilities and common areas				
	Provided: Y / N Notes:	Detail/cross section of inter connection between 2 parts			
	To elevator				
	Provided: Y / N Notes:				
	To suite				
	Provided: Y / N Notes:				
	Protection areas refuge or zone in lieu of sprinklers				
	Provided: Y / N Notes:				
	Doors				
	Clearances / width / opening hardware / force to open / power operated				
	Specific occupancy				
	RETAIL FOOD				
	WC requirements				
	Occupant load: Male / Female / D/A stalls / Toilet room / Lavatories				
	Ramps				
	Slope / Width / Handrails / Landings				
	Elevator				
	Access / Controls / Size (see Miscellaneous)				
	Corridors and aisles				
	Width / Obstructions / Slope / Stairs preventing access / handrails				
	Counters serving public				
	Counters accessible or adjacent facility accessible: Y / N				

	Viewing positions				
	Provided: Y / N	Notes:			
MISCELLANEOUS					
NA					
	Projection over city property				
	Provided: Y / N	Engineering	Legal agreement		
	Verify construction costs with marshall swift programme				
	Reported cost:	Calculated cost:	Additional fees: Y / N		
	Awning and canopy construction requirements				
	Review 1A.9.1				
	Garage ramps				
	Interconnected floors				
	Ramp only: Y / N	Other openings: Y / N	Separation		
DOCUMENTATION ON MECHANICAL DRAWINGS					
NA					
	Kitchen exhaust forms				
	Provided: Y / N	Acceptable: Y / N			
	Air balance table				
	Notes:				



Building Inspection Complaint

Case number: 101012245707

Case created: 2018-12-13, 12:32:00 PM

Incident Location

Address: 95 E 14TH AV, Vancouver, V5T 2M4

Address2:

Location name:

Original Address:

Contact Details

Name: s.22(1)

Address: ,

Address2:

Phone: s.22(1)

Email:

Alt. Phone:

Preferred contact method: Either

Request Details

- | | | |
|----|--|--|
| 1. | Type of Complaint: | Work Without Permit |
| 3. | If Work Without Permit selected, is there visible and active work being done? | Yes |
| 4. | Describe complaint in detail (building type e.g. single family or multi-family dwelling, high-rise, commercial building; location and type of work): | Transferred from enq. centre to report work without permit. Work being going on for past 2 weeks. Apartment building, units s.22(1) and s.22(1) having extensive work being done. Removal of asbestos sign put up. Dozens and dozens of black bags removed. Lots of noise and power tools. |
| 5. | (Don't ask, just record - did caller indicate they want a call back?): | No |

Additional Details

BP-2018-05371: In Review - Posse - enq centre advised caller this permit does not apply to scope of work being done.

95 E 14th Avenue

Interior alterations to replace domestic waterpiping, provide firestopping, and repair walls in conjunction with repiping in all of the 26 units in this existing 3-storey multiple dwelling building on this site. Scope of work to include installation of new dishwashers, washers and dryers in all units.

OK for SIPS as per C. Yue, October 12, 2018.

Letter of Assurance submitted by:
Plumbing Schedule B, Nehal H. Patel, P. Eng., 604.210.0021

Note:
Energy Upgrade Exempt - Repiping

Map and Photo

- no picture -

EN

FYA to:

FYI to:

BUILDING PERMIT DEFICIENCY LIST

Permit Number: BP-2019-01801

Address: 95 E 14 Avenue

Date: July 9, 2019

Note:

- Project scope:
Interior and exterior alterations, modifying floor layout, and re-pipe all plumbing system in all 3 storeys of this existing 3-storey multiple dwelling building. Exterior renovation is only to replace all windows and patio/balcony sliding doors. No work is proposed to the basement parking garage.
- The work is considered a Major Renovation Project that requires building upgraded to Fire; Life and Health Safety level of **F2**, Structural level of **S2**, Non- Structural level of **N3**, Accessibility level of **A3**, and Energy upgrade level of **E4** in compliance with V.B.B.L. Part 11.
- For detailed information on ASHRAE 90.1-2010 requirements and tutorials, please refer to vancouver.ca/home-property-development/large-building-energy-requirements-forms-checklists.aspx.

The following comments are to identify any issues that do not comply with Vancouver Building By-law #10908 as amended (VBBL 2014) and to request clarification of information in the submitted documentation and drawings. All items must be addressed before the issuance of the permit.

Documents:

- ✓ 1. Submit:
 - ✓ a. Architectural schedule B which is also signed off for building envelope item 1.25
 - ✓ b. Building envelope schedule D1
 - ✓ c. Mechanical schedule B.
2. Energy upgrade requirement of the project is E4. Please:
 - Oct 28 2. ✓ a. Revise residential suite energy checklist showing it would be upgraded to L4 level
 - ✓ b. Revise common area energy checklist for changes to envelope, lighting, and energy upgrade to L4 level
 - ✓ c. Submit digital files of the common area energy checklist in excel file and its related attachments (e.g. envelope, lighting, SWH) and also those for the energy compliance of residential suites in PDF.
- ✓ 3. The architect letter that confirms he takes responsibility and will look after all architecturally related works needs being stamped by the architect. Submit a revised stamped letter.

- OR
Nov 12
17. Double check information on drawings and correct where required, e.g. first floor kitchens are being identified as new bath.

Mechanical, plumbing, and electrical review

18. Update the electrical drawings for the 3rd floor fire detection and alarm system.
19. Show building emergency lighting system complies with current VBBL.
20. Some information on the electrical floor plans is not readable. Please look into modifying the electrical drawings scale or their legend/font size and submit 3 new sets of revised drawings.
21. Exit signs shall be green running man per the City of Vancouver Bulletin 2015-006-BU.
22. Provide mechanical drawings for kitchen and bathroom fan exhausts, venting of dryers in the laundry rooms (if there is any), and venting of dryers in the residential suites. Please also change name of the laundry rooms on floor plans, if it is not being used as a laundry room anymore.

Place note. ✓ Done Nov. 12

If you have any questions, please contact me at the phone number or email address below.

Please indicate the address and permit number in the subject line or transmittal of all your correspondence and submissions to the City; hard copy submissions should be addressed to my attention. All resubmitted documents and drawings must include the correct address and/or legal description. The review of your resubmission will be prioritized based on the date it is received.

Hamid Mahpour
(604)871-6024
hamid.mahpour@vancouver.ca

BUILDING PERMIT DEFICIENCY LIST

Permit Number: BP-2019-01801
Address: 95 E 14 Avenue
Date: July 9, 2019

Note:

- **Project scope:**
Interior and exterior alterations, modifying floor layout, and re-pipe all plumbing system in all 3 storeys of this existing 3-storey multiple dwelling building. Exterior renovation is only to replace all windows and patio/balcony sliding doors. No work is proposed to the basement parking garage.
- The work is considered a Major Renovation Project that requires building upgraded to Fire; Life and Health Safety level of **F2**, Structural level of **S2**, Non- Structural level of **N3**, Accessibility level of **A3**, and Energy upgrade level of **E4** in compliance with V.B.B.L. Part 11.
- For detailed information on ASHRAE 90.1-2010 requirements and tutorials, please refer to vancouver.ca/home-property-development/large-building-energy-requirements-forms-checklists.aspx.

The following comments are to identify any issues that do not comply with Vancouver Building By-law #10908 as amended (VBBL 2014) and to request clarification of information in the submitted documentation and drawings. All items must be addressed before the issuance of the permit.

Documents:

- ✓ 1. Submit:
 - ✓ a. Architectural schedule B which is also signed off for building envelope item 1.25
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- ✓ 2. Energy upgrade requirement of the project is E4. Please:
 - ✓ a. Revise residential suite energy checklist showing it would be upgraded to L4 level
 - ✓ b. Revise common area energy checklist for changes to envelope, lighting, and energy upgrade to L4 level
 - ✓ c. Submit digital files of the common area energy checklist in excel file and its related attachments (e.g. envelope, lighting, SWH) and also those for the energy compliance of residential suites in PDF.
- ✓ 3. The architect letter that confirms he takes responsibility and will look after all architecturally related works needs being stamped by the architect. Submit a revised stamped letter.

Oct 28

Building Bylaw compliance

- George AL

- ✓ 17. Double check information on drawings and correct where required, e.g. first floor kitchens are being identified as new bath.

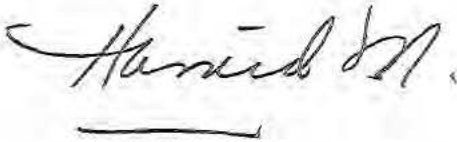
Mechanical, plumbing, and electrical review

- ~~18.~~ Update the electrical drawings for the 3rd floor fire detection and alarm system.
~~19.~~ Show building emergency lighting system complies with current VBBL.
~~20.~~ Some information on the electrical floor plans is not readable. Please look into modifying the electrical drawings scale or their legend/font size and submit 3 new sets of revised drawings.
~~21.~~ Exit signs shall be green running man per the City of Vancouver Bulletin 2015-006-BU.
~~22.~~ Provide mechanical drawings for kitchen and bathroom fan exhausts, venting of dryers in the laundry rooms (if there is any), and venting of dryers in the residential suites. Please also change name of the laundry rooms on floor plans, if it is not being used as a laundry room anymore.

If you have any questions, please contact me at the phone number or email address below.

Please indicate the address and permit number in the subject line or transmittal of all your correspondence and submissions to the City; hard copy submissions should be addressed to my attention. All resubmitted documents and drawings must include the correct address and/or legal description. The review of your resubmission will be prioritized based on the date it is received.

Hamid Mahpour
(604)871-6024
hamid.mahpour@vancouver.ca



STUART HOWARD
ARCHITECTS INC

MEMBERS AIBC - RAIC - AIA

Stuart Howard Architect AIBC SAA FRAIC AIA Principal

W. Neil Robertson Architect AIBC MRAIC AIA Principal

November 28, 2019

SUBJECT: Building Permit Deficiency List (Further)

Permit Number: BP-2019-01801

Address: 95 E 14th Avenue

...The same item number of the original review comment is used to address the remaining issues.

(black text from original list)

(blue text as added comment from Hamid Mahpour, Nov 27th)

[red text response comment today]

a. Provide exit stair details demonstrating compliance with VBBL

Item 4a- Using VBBL 2019 Article 11.3.5.4 to justify compliance of the existing exit stairs with VBBL requirements is acceptable only when the Generic Alternative Solution to CBO office was accepted. Please note Bulletin 2019-005-BU and have the said Generic AL submitted to CBO office. Contact Boris Turishev of CBO at (604)873-7401 or boris.turishev@vancouver.ca for questions on Alternative Solutions.

[A generic alternative solution for the exit stairs, taken from VBBL 2019 has been submitted to CBO electronically.]

d. Show public corridor and exit lobby are fire separated with assemblies having proper fire resistance rating from other floors including parking garage

Item 4d- Although the fire resistance rating of the existing walls was accepted, however 33min fire resistance rating for floors of exit lobby, exit corridor, and public corridor is not acceptable. Please look into how ratings of the said assemblies could be brought up to comply with VBBL requirements.

[The assembly schedule has been revised to account for an additional layer of 5/8" Type 'X' GWB to be added to Horizontal assembly F-05 universally (not just in the residential suites.)]

See also drawing sheet A2.01, Floor Plan L-1. Comment has been added at Door D100-8. The swing of the door appeared to conflict with D100-7, confirmation of location of door is noted as required.

See also drawing sheet A4.01, Section 1. Two assembly tags have been corrected to F-06.

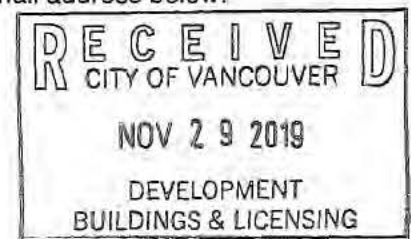
Changed items are clouded in red.

If you have any questions, please contact me at the phone number or email address below.

Regards,



Rob McLean



405 - 375 WEST FIFTH AVENUE
Telephone: 604 . 688 . 5585

VANCOUVER, B.C. • V5Y 1J6
Facsimile: 604 . 688 . 7486



Stuart Howard Architect AIBC FRAIC AIA Principal
W. Neil Robertson Architect AIBC MRAIC AIA Principal

Date: November 28th, 2019

Mr. Boris Turishev, Building Policy Engineer

Building Policy Branch
City of Vancouver, Development, Buildings and Licensing
Ph: 604.873.7401
email: boris.turishev@vancouver.ca

RE: Generic Alternative Solution
Project Address – 95 East 14th Avenue. Apartment Building Q14.
BP-2019-01801

Brief Building Description and Scope of Project:

This is a three storey walk-up residential rental apartment building. A partial basement and parking area are located below grade.

The BP application is for renovation of 26 residential suites on the 1st, 2nd, and 3rd floor levels.

Interior renovations to the rental units consist of: removal and replacement of all kitchen and bathroom electric and plumbing appliances, fixtures, cabinets and finishes; including addition of in-suite clothes washers/dryers; remove some existing non-rated interior partitions, and construct some new non-rated partitions or portions of, reconfigure kitchen layouts and space, and designate den or storage rooms in each unit; increase size of in-suite doors to meet current VBBL requirements, add smoke detectors within units; replace unit windows and sliding doors with modern units of the same size and operation.

By-Law Edition, References & Summary of Deviations

The building permit application for this project is under VBBL 2014.

The existing exit stairs do not comply with VBBL 2014.

Permitted rise of stairs is between 125mm (4.92") and 180mm (7.0866")

Permitted run of stairs is – minimum run = 280mm (11.0236")

405 • 375 WEST FIFTH AVENUE
Telephone 604•688-5585

• VANCOUVER B.C. • V5Y 1J6
Facsimile: 604•688-7486

On the three residential levels the observed condition of the exit stairs is:

Observed rise of existing stairs is between 178mm and 190.5mm (7" and 7-1/2").

Observed run of existing stairs is approximately between 266.7mm and 273.1mm (10.5" and 10.75") .

The stairs have rectangular treads, in straight flights

On the parking level stairway, the observed condition of the exit stairs is:

Observed rise of existing stairs is between 171.5mm and 177.8mm (6.75" and 7").

Observed run of existing stairs is approximately 247.7mm (9.75") .

The stairs have rectangular treads, in straight flights.

Summary of Solutions/ List Mitigating Features.

******(additional design features in excess of literal requirements)

The existing rise and run dimensions comply with VBBL2019, Table 11.3.6.9 (4)

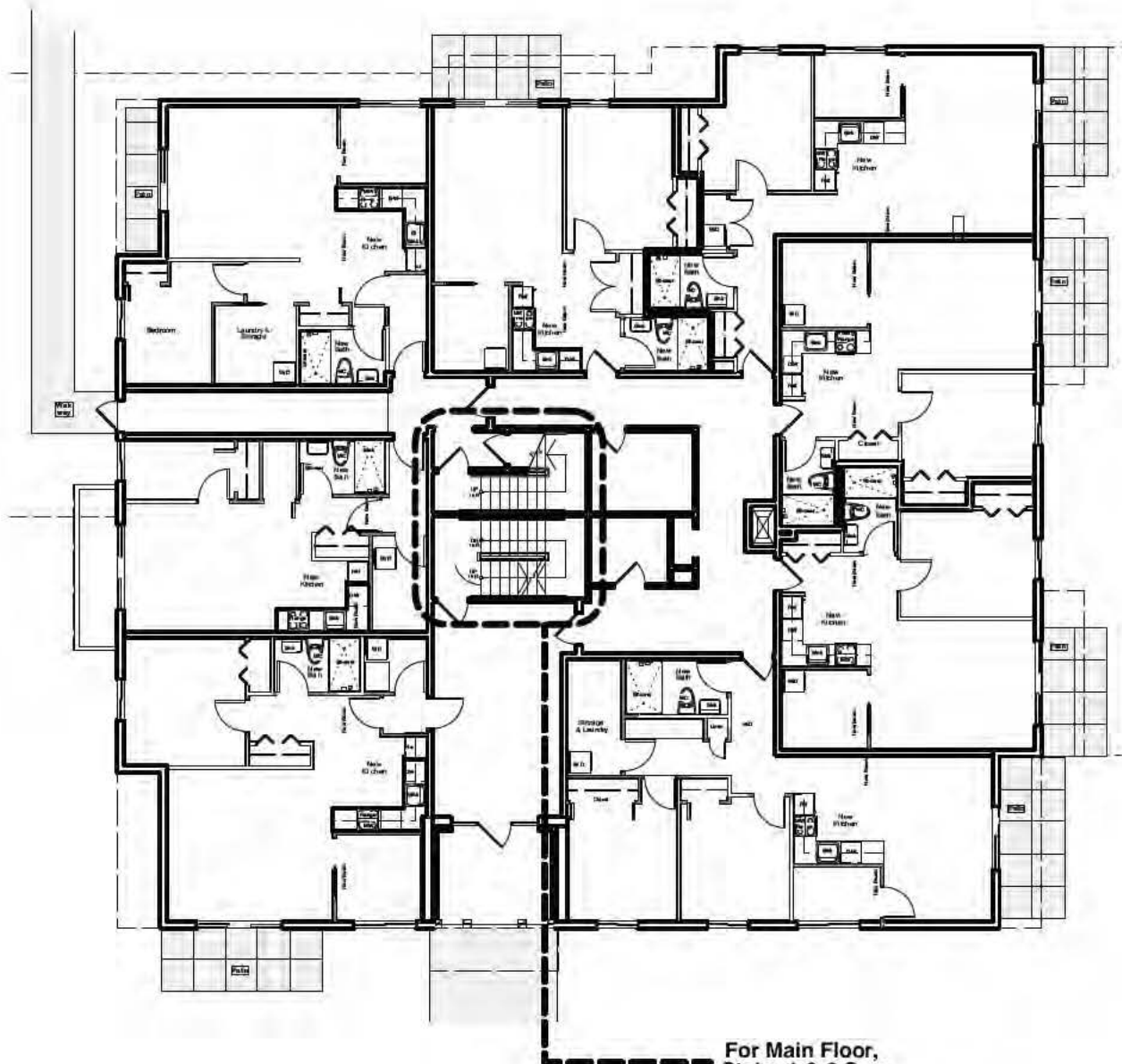
- New slip resistant finish will be installed on treads and landings.
- New nosings with distinct colour contrast for the full width of the leading edge will be installed.
- No projecting nosing, rakeback, or combination thereof shall exceed 38mm or angle of more than 30 degrees from the vertical.
- Lighting shall comply with 11.3.6.9.(4) c); emergency lighting shall comply with 11.3.6.9.(4) d).
- New Handrails shall comply with 3.4.6.5.
- Emergency power will be provided in accordance with 3.2.6.5.

As Registered Professional, I will coordinate design and field reviews of the discussed generic alternative solutions in conformance with requirements in Subsection 2.3.2. of Division C of the 2014 VBBL

Sincerely

STUART HOWARD ARCHITECTS INC.

W. Neil Robertson
Architect AIBC, MRAIC, AIA
PRINCIPAL



For Main Floor,
Stairs 1 & 2 See
Attachment Page 3

For Level 2, Stairs
1 & 2 See
Attachment Page 4

For Level 3, Stairs
1 & 2 See
Attachment Page 5



**STUART HOWARD
ARCHITECTS INC.**

MEMBERS AIBC - RAIC - AIA

405 - 375 West 5th Avenue
phone - 604.688.5585

Vancouver B.C. V5Y 1J6
fax - 604.688.7486

Project:

**Apartment
Building
Q14**

95 East 14th Avenue
Vancouver, B.C.

Title:

**Main Floor
Key Plan**

**(Similar
Level 2 &
Level 3)**

City of Vancouver - FOI 2020098 - Page 24 of 64

Date:
2019.11.28

Project ID:
219.02

Drawn:
rmm

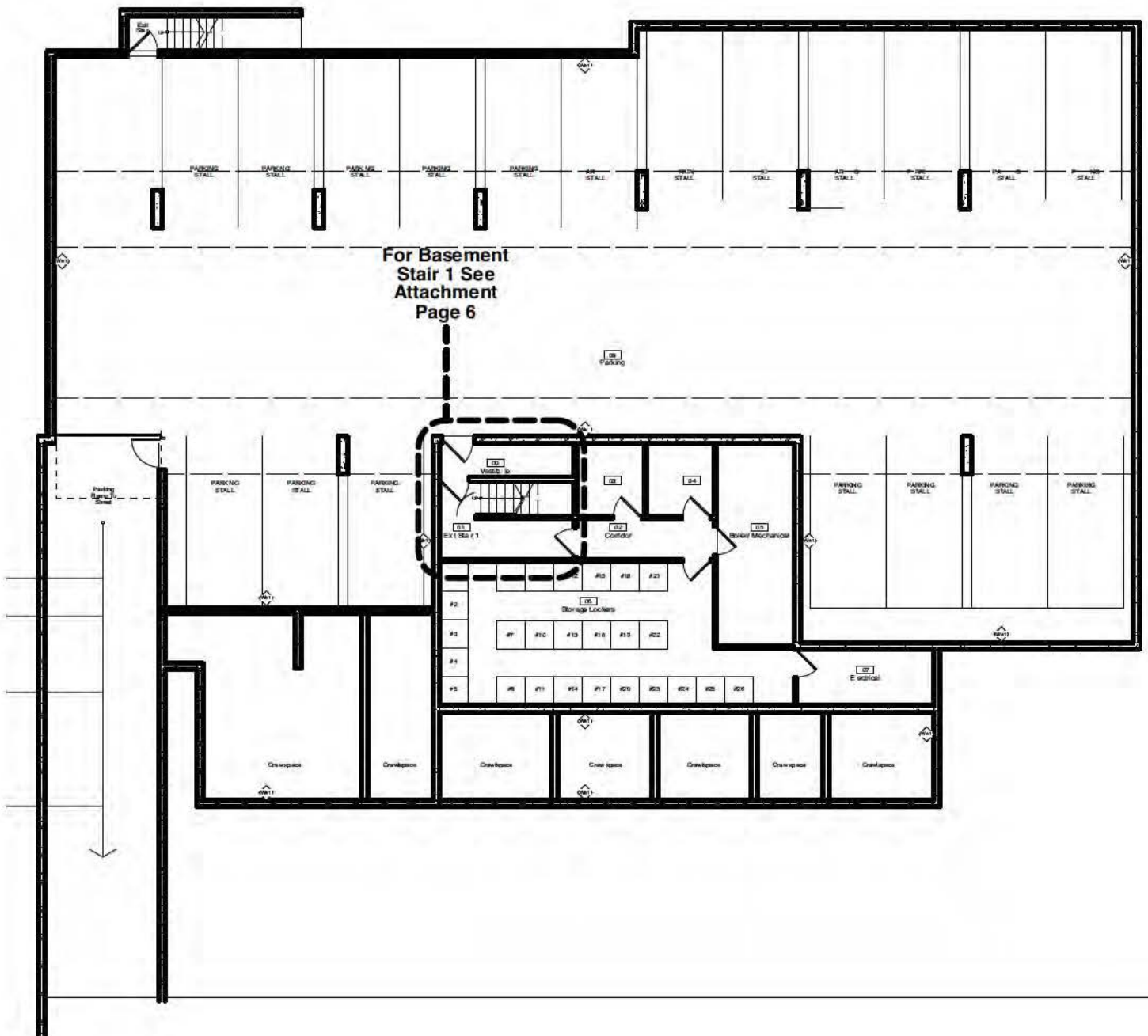
Chk'd:
NR

Scale:
1/16"=1'-0"

Sheet No.

**Attachment
Page 1**

Rev:



**STUART HOWARD
ARCHITECTS INC.**

MEMBERS AIBC - RAIC - AIA

405 - 375 West 5th Avenue
phone - 604.688.5585

Vancouver B.C. V5Y 1J6
fax - 604.688.7486

Project:

**Apartment
Building
Q14**

95 East 14th Avenue
Vancouver, B.C.

Title:

**Basement/
Parking Level
Key Plan**

Date:
2019.11.28

Project ID:
219.02

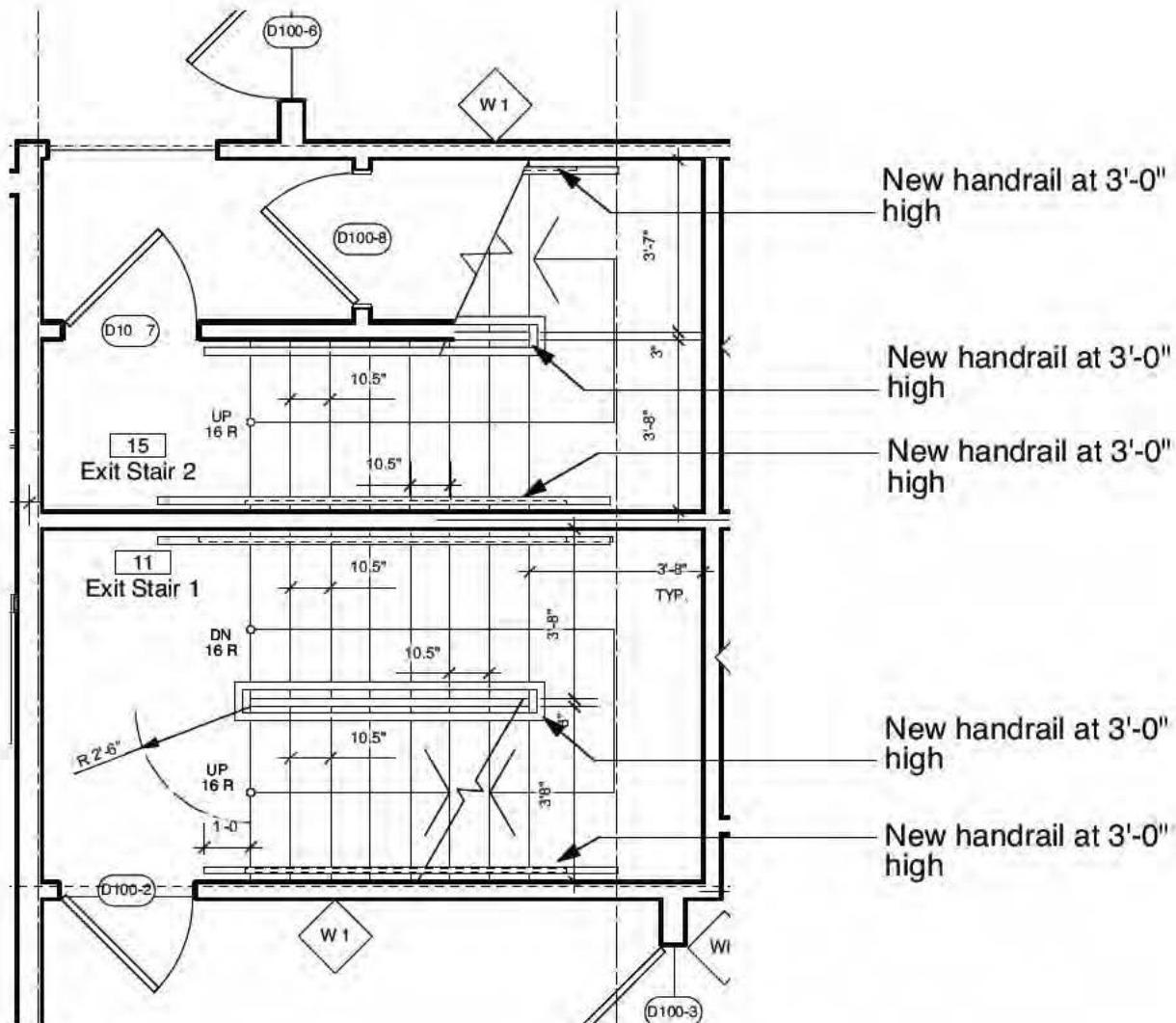
Drawn: rmm
Chk'd: NR

Scale:
1/16"=1'-0"

Sheet No.

**Attachment
Page 2**

Rev:



D tail Plan - Level 1 - Exit Stair
Scale: 1/4" = 1'-0"

- New slip resistant finish will be installed on treads and landings.
- New nosings with distinct colour contrast for the full width of the leading edge will be installed.
- No projecting nosing, rakeback, or combination thereof shall exceed 38mm or angle of more than 30 degrees from the vertical.
- Lighting shall comply with 11.3.6.9.(4) c); emergency lighting shall comply with 11.3.6.9.(4) d).
- New Handrails shall comply with 3.4.6.5.
- Emergency power will be provided in accordance with 3.2.6.5.



**STUART HOWARD
ARCHITECTS INC.**
MEMBERS AIBC - RAIC - AIA

405 - 375 West 5th Avenue
phone - 604.688.5585

Vancouver B.C. V5Y 1J6
fax - 604.688.7486

Project:

**Apartment
Building
Q14**

95 East 14th Avenue
Vancouver, B.C.

Title:

**Exit Stairs
Main Floor**

Date:

2019.11.28

Project ID:
219.02

Drawn:

rmm

Chk'd:

NR

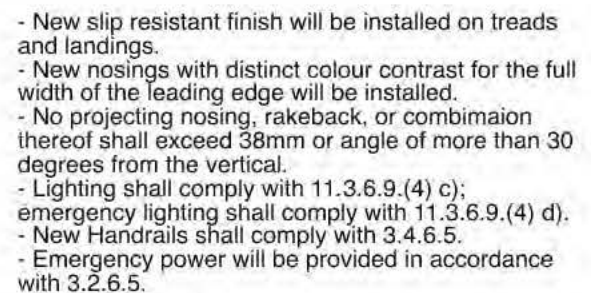
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1/4" = 1'-0"

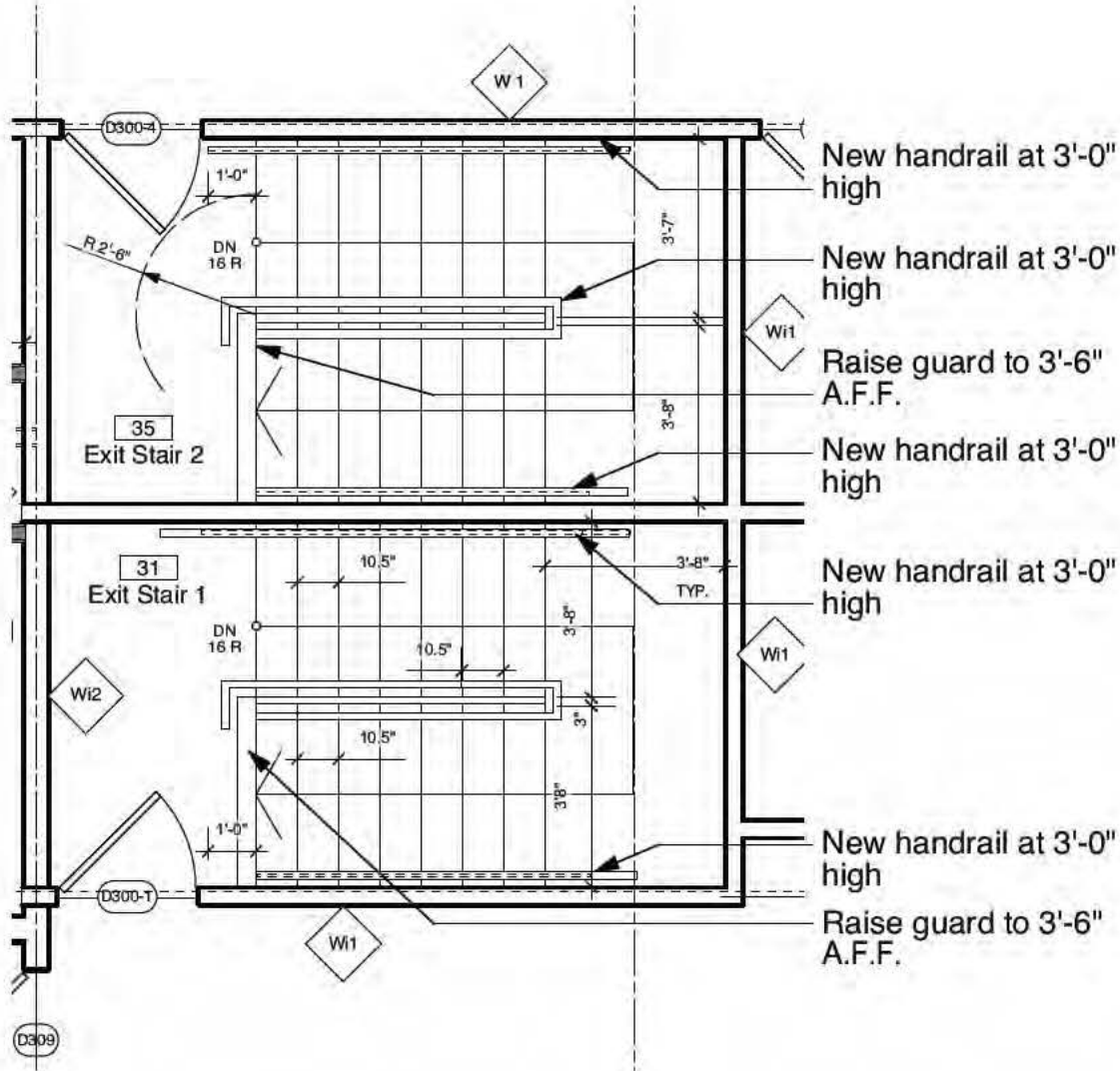
Sheet No.

**Attachment
Page 3**

Rev:



Scale: $1/4" = 1'-0"$



D tail Plan - Level 3 - Exit Stair
Scale: 1/4" = 1'-0"

- New slip resistant finish will be installed on treads and landings.
- New nosings with distinct colour contrast for the full width of the leading edge will be installed.
- No projecting nosing, rakeback, or combination thereof shall exceed 38mm or angle of more than 30 degrees from the vertical.
- Lighting shall comply with 11.3.6.9.(4) c); emergency lighting shall comply with 11.3.6.9.(4) d).
- New Handrails shall comply with 3.4.6.5.
- Emergency power will be provided in accordance with 3.2.6.5.



**STUART HOWARD
ARCHITECTS INC.**
MEMBERS AIBC - RAIC - AIA

405 - 375 West 5th Avenue
phone - 604.688.5585

Vancouver B.C. V5Y 1J6
fax - 604.688.7486

Project:

**Apartment
Building
Q14**

95 East 14th Avenue
Vancouver, B.C.

Title:

**Exit Stairs
Level 3**

Date:
2019.11.28

Project ID:
219.02

Drawn:
rmm

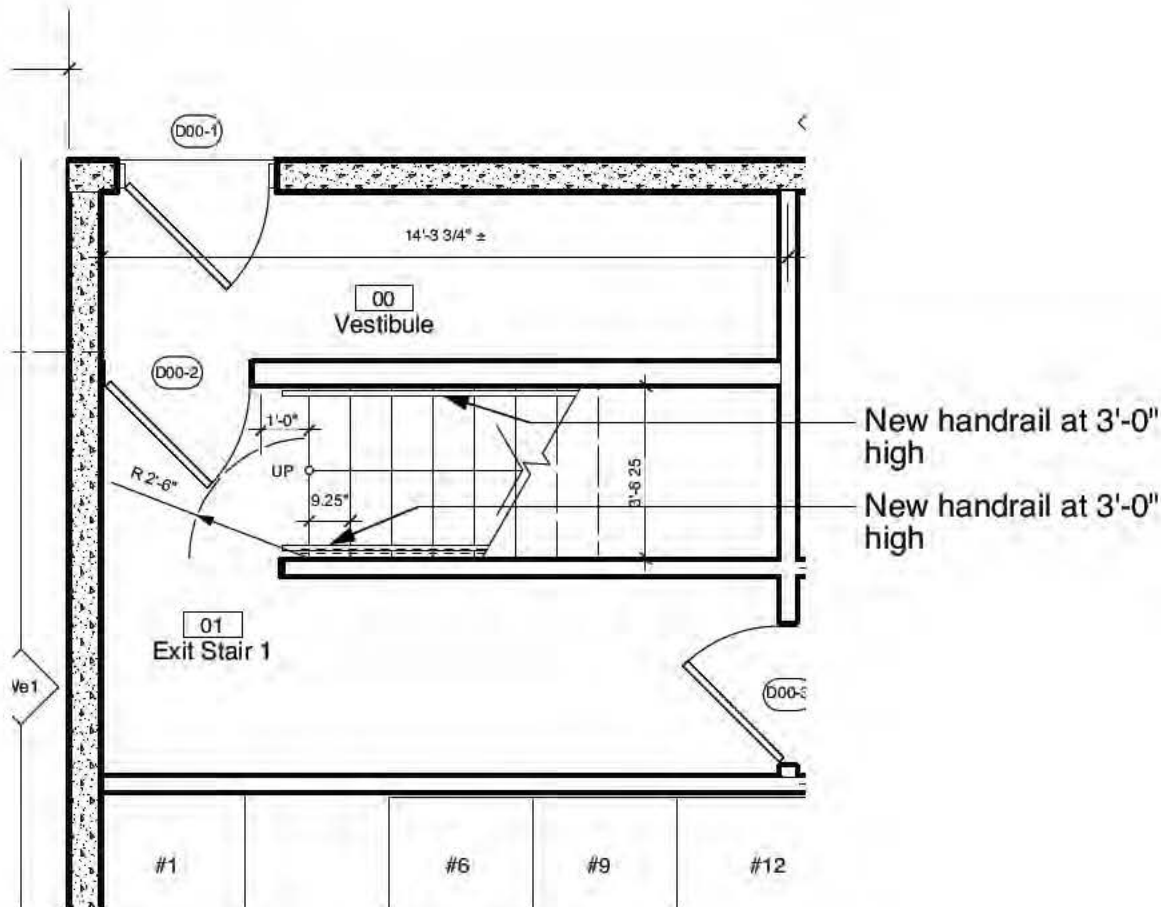
Chk'd:
NR

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

Sheet No.

**Attachment
Page 5**

Rev:



Detail Plan - Level B - Exit Stair -
Scale: 1/4" = 1'-0"

- New slip resistant finish will be installed on treads and landings.
- New nosings with distinct colour contrast for the full width of the leading edge will be installed.
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- Lighting shall comply with 11.3.6.9.(4) c); emergency lighting shall comply with 11.3.6.9.(4) d).
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- Emergency power will be provided in accordance with 3.2.6.5.



**STUART HOWARD
ARCHITECTS INC.**

MEMBERS AIBC - RAIC - AIA

405 - 375 West 5th Avenue
phone - 604.688.5585

Vancouver B.C. V5Y 1J6
fax - 604.688.7486

Project:

**Apartment
Building
Q14**

95 East 14th Avenue
Vancouver, B.C.

Title:

**Exit Stairs
Basement/
Parking Level**

Date:

2019.11.28

Project ID:
219.02

Drawn:

rmm

Chk'd:

NR

Scale:

1/4" = 1'-0"

Sheet No.

**Attachment
Page 6**

Rev:



**STUART HOWARD
ARCHITECTS INC.**
MEMBERS AIBC - RAIC - AIA

Stuart Howard Architect AIBC FRAIC AIA Principal
W. Neil Robertson Architect AIBC MRAIC AIA Principal

Date: July 2, 2019

Hamid Mahpour, Project Coordinator

Building Review Branch
City of Vancouver, Development, Buildings and Licensing
Ph: 604.871.6024
email: hamid.mahpour@vancouver.ca

RE: Project Address – 95 East 14th Avenue

Dear Hamid,

This letter is to confirm that work at the address noted, begun under previous building permit BP-2018-05371 will be included under the professional letters of assurance submitted for building permit BP-2019-01801 as issued by the undersigned registered professional and corporation named below.

Sincerely,

STUART HOWARD ARCHITECTS INC.

W. Neil Robertson
Architect AIBC, MRAIC, AIA
PRINCIPAL



405 • 375 WEST FIFTH AVENUE
Telephone 604•688-5585

VANCOUVER B.C. • V5Y 1J6
Facsimile: 604•688-7486

Project Coordinator: Hamid Mahpour
POSSE Permit Number: BP-2019-01801
Project Address: 95 E 14TH AVENUE
Vancouver, BC V5T 2M4

Related To:

Project Description:

Interior and exterior alterations to this existing rental building(26 suites) on first, second, and third floors. Exterior renovation is for replacing all exterior windows only. Interior alteration includes:

- 1- Replacement of all bathroom plumbing and and bathroom fixtures
- 2- Replacement of all kitchen cabinets, plumbing and other fixtures
- 3- Replacement of all electrical wiring and fixtures including detection and alarm system
- 4- Removal of some interior partitions and re configuring layout of some of the suites
- 5- Replacing some doors.

Please note:

- 1- Some plumbing are inside the rated demising wall. Included in the work is the replacement of those plumbing which may void listing of the wall assembly. Architect needs to demonstrate compliance with VBBL showing walls have proper fire and sound separations.
- 2- A set of drawings will be sent to ECO for clearance of exterior changes including whether the permit needs being converted to a DB.

ATTENTION: Name &/OR NOTES:	DISTRIBUTION TO: DATE:	
	Addressing	
	Eco	
	Electrical	
	Engineering Services	
	Environmental	
	Fire & Rescue Services	
	Health	
	Heritage	
	Landscape	
	Mechanical	
	Planning	

PLEASE RETURN DRAWINGS TO:

BUILDING REVIEW BRANCH CLERKS 4th FLOOR - WEST ANNEX

Project Coordinator: Hamid Mahpour
POSSE Permit Number: BP-2019-01801
Project Address: 95 E 14TH AVENUE
Vancouver, BC V5T 2M4

	Single Room Accom. (SRA)	
	CCFL	

PLEASE RETURN DRAWINGS TO:
BUILDING REVIEW BRANCH CLERKS 4th FLOOR - WEST ANNEX

General Notes

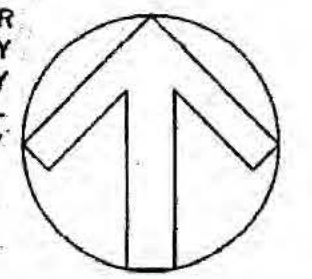
This drawing, as an instrument of service is the property of the designers and may not be reproduced without their permission and unless the reproduction carries their name. All designs and other information shown on this drawing are for the use of the specified project only and shall not be used otherwise without the written permission of the designers.

Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions of the job and the designers shall be informed of any variations from the dimensions and conditions shown on the drawing.



201-1940 Oxford Connector,
Port Moody, B.C. V3C 0A4
Phone: (604) 210-0021
Fax: (604) 210-0017
Web: www.cadaconsultants.com
Email: info@cadaconsultants.com
C018-082

SIGNATURE



DATE

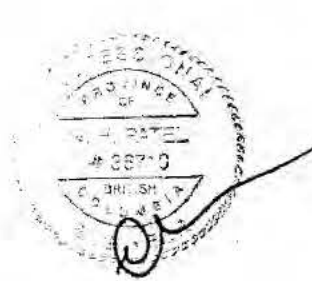
2018-10-25

Issue

Description

Date

Engineer's seal:



Project:

DOMESTIC WATER RE-PIPING
AND ADDED CLOTHES
WASHERS

95 EAST 14 AVE,
VANCOUVER, BC

Drawing Title:

COVER PAGE, SITE
PLAN, LEGEND &
SYMBOLS

Date:

2018-10-25

Drawn By:

AD/CA/AS

Checked By:

NP

Scale:

N.T.S.

P-1.0

MECHANICAL GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE, PRIOR TO SUBMITTING PRICE TO BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING WATER, SANITARY, AND GAS SERVICES. NOTIFY ENGINEER ANY DISCREPANCY DURING TENDER PERIOD. FAILURE TO VISIT THE SITE WILL NOT ALLEVIATE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY TO EXECUTE THE CONTRACT DOCUMENTS TO THEIR FULL INTENT.
2. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
3. ALL MATERIAL SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER VERIFYING IT IS ADEQUATE FOR INSTALLATION PER THE SPECIFICATIONS AND DRAWING. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
4. MECHANICAL CONTRACTOR SHALL PROVIDE TWO FILTER CHANGES PRIOR TO THE END OF CONSTRUCTION STAGE AND PRIOR TO GRAND OPENING.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF STRUCTURAL MEMBERS AND COORDINATE INSTALLATION OF THE EQUIPMENTS ACCORDINGLY.
6. THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL COMPLETE THE IMPROVEMENTS SHOWN ON THE DRAWINGS. ALL SYSTEMS SHALL BE FINISHED, TESTED, AND BALANCED, ADJUSTED, AND PROVEN FULLY OPERATIONAL AND USEABLE.
7. EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE, EXISTING WORK IS TO REMAIN.
8. WHERE PIPES, CONTROL DEVICES AND WIRING WHICH ARE TO REMAIN IN-SERVICE ARE DISCONNECTED FOR THE REMOVAL OR RELOCATION OF EQUIPMENT OR BECAUSE OF BUILDING ALTERATIONS, THEY SHALL BE RE-CONNECTED BY MECHANICAL CONTRACTOR. MC TO COORDINATE WITH OTHER TRADES AS NECESSARY.
9. TRANSITION RECTANGULAR DUCTWORK ON BOTTOM AND SIDES. MAINTAIN TOP OF DUCTWORK LEVEL AND AS HIGH AS POSSIBLE. PROVIDE VOLUME DAMPER AT EACH BRANCH DUCTWORK.
10. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
11. MOUNT THERMOSTATS AND FAN SWITCHES WHERE INDICATED ON PLANS 48" AFF UNLESS NOTED OTHERWISE. COORDINATE FINAL LOCATIONS OF THESE CONTROLS WITH OWNER'S REP.
12. COORDINATE DUCTWORK AND PIPING WITH PLUMBING, FIRE PROTECTION AND ELECTRICAL.
13. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
14. CONTRACTOR SHALL COORDINATE FIRE RATED WALLS AND FLOORS. PROVIDE FIRE DAMPERS IN DUCT PENETRATIONS THROUGH RATED WALLS AND FLOORS.
15. EXACT LOCATIONS OF ALL CEILING AIR DEVICES SHALL BE COORDINATED WITH LIGHT FIXTURES, SPRINKLER HEADS AND OTHER CEILING MOUNTED FIXTURES AT JOB SITE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
16. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLEMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
17. THIS SHEET HAS GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.
18. DRAWING'S ISSUE DATE AND DESCRIPTION ARE NOTED ON THE TITLE BLOCK. G.G. SHALL CONFIRM AND GET ENGINEER'S APPROVAL IF ANY OF THESE DRAWINGS ARE USED FOR ANY OTHER PURPOSE THAN LISTED IN DESCRIPTION. G.G. SHALL COLLECT ALL RFI ON ISSUED FOR TENDER DRAWINGS AND SEND TO ENGINEER FOR ANSWERS AND CLARIFICATION. ENGINEER MAY ISSUE ADDENDUM AS NECESSARY.

CIVIC ADDRESS

95 EAST 14TH AVE, VANCOUVER

SYMBOL SCHEDULE

---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DOMESTIC HOT WATER RETURN
---	SANITARY
---	SANITARY SUD ZONE
---	VENT
---	EXISTING
---	DIRECTION OF FLOW
---	SLOPE PIPE
---	PIPE DROP
---	PIPE RISE
---	PIPE TEE DOWN
---	BALANCING VALVE
---	CHECK VALVE
---	PIPE TEE UP
---	PIPE UNION
---	ISOLATION VALVE - REFER TO SPECIFICATION
---	EQUIPMENT / FIXTURES
---	DEVELOPMENT / SERVICES
---	PERMIT, HAVE BEEN REVIEWED AND FORM
---	DETAIL NUMBER DRAWING NUMBER
---	THE ISSUANCE OF A PERMIT DOES NOT REPRESENT OR
---	WARRANT THAT THE APPLICATION OR PLANS COMPLY
---	WITH THE PROVISIONS OF THE BUILDING BY-LAW OR ANY
---	OTHER BY-LAW REGULATING SIGNS OR THE CONSTRUCTION
---	OF BUILDINGS, NOR DOES IT PREVENT THE CITY
---	FROM ENFORCING ANY SUCH BY-LAWS AS IT SEES FIT. THE
---	RESPONSIBILITY TO COMPLY WITH THE BY-LAWS AT ALL
---	TIMES REMAINS WITH THE OWNER AND DEVELOPER.
---	PUMP

DRAWING LIST

PAGE	DESCRIPTION
P-1.0	COVER PAGE, SITE PLAN, LEGEND & SYMBOLS
P-2.0	PLUMBING, PARKING & FIRST FLOOR PLAN
P-2.1	PLUMBING, SECOND & THIRD FLOOR PLAN
P-3.0	WATER & SANITARY SCHEMATICS
P-4.0	DETAILS
P-5.0	SPECIFICATIONS

The Water Works By-law (WWBL) has been amended to prohibit the connection of once through cooling equipment, non-recirculating liquid ring pumps and other single pass systems to the City's water system (WWBL Section 3.9)

CITY OF VANCOUVER
Licences & Inspections
Plumbing Inspection Branch

These drawings are accepted for the issuance of the plumbing permit subject to compliance with the current City of Vancouver Building By-laws, related regulations and good engineering practice.

Signature:

Date: DEC 04 2018

Drawings refer to permit # PP 2018-05431

IMPORTANT

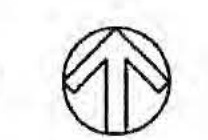
The issuance of a permit does not represent or warrant that the plans comply with the provisions of these by-laws, nor does it prevent the City from enforcing any such by-laws as it sees fit. The responsibility to comply with the by-laws at all times still remains with the applicant and the owner.

Backflow prevention to be installed for all fixtures and equipment required by the City of Vancouver Waterworks By-law 4848

These plans have not been looked at for compliance with the Building By-law requirements (other than as to location of the building on the site). They are not accepted for purposes of that By-law until the District Building Inspector endorses his acceptance of the Building Permit-Inspection (Approval Record) his "Inspection Record" and hereon

Inspector's Name
(Print and Sign)

1 SITE PLAN
P-1.0 SCALE: N.T.S.



DOMESTIC WATER LOAD SUMMARY							
DESCRIPTION	USE TYPE	QTY.	COLD FU	HOT FU	COMBINED (TOTAL) FU	TOTAL COLD FU	TOTAL HOT FU
THIRD FLOOR							
LAVATORY	PRIVATE	9	0.70	0.70	0.70	6.30	6.30
WATER CLOSET	PRIVATE	9	2.20	0.00	2.20	19.80	0.00
BATH TUB	PRIVATE	9	1.40	1.40	1.40	12.60	12.60
KITCHEN SINK	PRIVATE	9	1.40	1.40	1.40	12.60	12.60
DISHWASHER	PRIVATE	9	0.00	1.40	1.40	0.00	12.60
CLOTHES WASHER	PRIVATE	9	1.40	1.40	1.40	12.60	12.60
TOTAL						63.90	56.70
SECOND FLOOR							
LAVATORY	PRIVATE	9	0.70	0.70	0.70	6.30	6.30
WATER CLOSET	PRIVATE	9	2.20	0.00	2.20	19.80	0.00
BATH TUB	PRIVATE	9	1.40	1.40	1.40	12.60	12.60
KITCHEN SINK	PRIVATE	9	1.40	1.40	1.40	12.60	12.60
DISHWASHER	PRIVATE	9	0.00	1.40	1.40	0.00	12.60
CLOTHES WASHER	PRIVATE	9	1.40	1.40	1.40	12.60	12.60
TOTAL						63.90	56.70
FIRST FLOOR							
LAVATORY	PRIVATE	8	0.70	0.70	0.70	5.60	5.60
WATER CLOSET	PRIVATE	8	2.20	0.00	2.20	17.60	0.00
BATH TUB	PRIVATE	8	1.40	1.40	1.40	11.20	11.20
KITCHEN SINK	PRIVATE	8	1.40	1.40	1.40	11.20	11.20
DISHWASHER	PRIVATE	8	0.00	1.40	1.40	0.00	11.20
CLOTHES WASHER	PRIVATE	8	1.40	1.40	1.40	11.20	11.20
TOTAL						56.80	50.40
ALL UNITS TOTAL						184.60	163.80
NOTES:							
1. WC BASED ON FLUSH TANK.							
2. SIZING OF WATER DISTRIBUTION SYSTEM IS BASED ON BCBC 2012 USING AVERAGE PRESSURE LOSS METHOD.							
PIPE SIZING CHART IS BASED ON TABLE A-2.6.3.1.(2) F WITH WATER VELOCITY OF 5 FPS FOR COLD AND 4 FPS FOR HOT.							
3. ALL PLUMBING FIXTURES ARE LOW FLOW.							

DOMESTIC WATER PIPE SIZING CHART

PIPE SIZE	PEX PIPING	COPPER PIPING
DOW/DHW - MAX. 80/100 (2.4m/s)		
FU (GPM)		
1/2"	7 (6)	
3/4"	17 (13)	
1"	30 (20)	
1 1/2"	54 (30)	
2"	102 (44)	
2 1/2"	265 (78)	
3"	500 (123)	
3 1/2"	750 (170)	

NOTES:

PIPE SIZING CHART USING AVERAGE PRESSURE LOSS METHOD. TABLE A-2.6.3.1.(2) BCBC 2012.

DEVELOPED LENGTH FROM THE PRIVATE WATER SERVICE TO THE MOST REMOTE WATER OUTLET = 210 FT.

WATER PIPE SIZING BASED ON 8 FT/SEC FOR HOT & COLD USING (PEX, UPONOR). CONTRACTOR TO FOLLOW THE TABLE ABOVE CORRESPOND TO THE MATERIAL TO BE INSTALLED ON SITE.

PIPE SIZING METHODOLOGY

- MINIMUM PRESSURE REQUIRED AT FIXTURE = 35 PSI (241 KPA)
- LONGEST PIPE RUN LENGTH = 140 FT (42.7 M)
- DEVELOPED LENGTH INCLUDING FITTINGS (X 1.5 EXTRA) = 210 FT (64 M)
- PIPE LOSS = 4 FT/100 FT
- PRESSURE LOSS DUE TO LENGTH = 8.4 FT = 3.64 PSI (25 KPA)
- PRESSURE LOSS DUE TO HEIGHT = 36 FT = 15.6 PSI (107.6 KPA)
- AVAILABLE PRESSURE ON SITE AT WATER SERVICE CAPPED-OFF (AFTER PRV) = 80 PSI (550 KPA)

CONTRACTOR TO SITE VERIFY AND NOTIFY ANY CHANGE TO ENGINEER.

80 PSI (550 KPA)

80 PSI (550 KPA) - [35 PSI (241 KPA) + 3.64 PSI (25.1 KPA) + 15.6 PSI (107.6 KPA)] = 25.8 PSI (177.9 KPA)

25.8 PSI (177.9 KPA) / 210 FT (64 M) = 0.122 PSI/FT (2.78 KPA/M)

THEREFORE, USING AVERAGE PRESSURE LOSS METHOD IS SUITABLE.

KEY NOTES

- CONNECT TO EXISTING VENT. (TYPICAL)
- CLOTHES WASHER DRAINS/STACKS TO HAVE SEPARATE SANITARY LINE FOR SUD PRESSURE ZONE RESTRICTIONS. CONNECT TO DOWNSTREAM OF BUILDING DRAIN WITH 40X DIAMETER OF MAIN SANITARY LINE. (TYPICAL)
- PROVIDE RATED ACCESS PANEL AND VALVE TAGGING. (TYPICAL)

GENERAL NOTES

- DRAWINGS ARE BASED ON LIMITED SITE REVIEW AND EXISTING DRAWINGS. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE, PRIOR TO SUBMITTING PRICE, TO BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS. FAILURE TO VISIT THE SITE WILL NOT ALLEVIATE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY TO EXECUTE THE CONTRACT DOCUMENTS TO THEIR FULL INTENT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF STRUCTURAL MEMBERS AND COORDINATE INSTALLATION OF THE PLUMBING EQUIPMENT AND PIPING ACCORDINGLY.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS TO BE FIRE STOPPED TO MATCH RATING.
- COORDINATE ALL PIPE SLEEVE PLACEMENT WITH GENERAL CONTRACTOR.
- TRAP PRIMER REQUIRED AT ALL FLOOR DRAINS.
- ALL INDIRECT WASTE PIPING INSTALLED WITH A LENGTH GREATER THAN 5'-0" SHALL HAVE CLEANOUTS. MAX INDIRECT WASTE LINE SHALL BE 15'-0".
- ENSURE ALL FLOOR DEMOLITION REQUIRED TO COMPLETE WORK IS REPAIRED TO EXISTING STANDARDS AFTER WORK IS COMPLETED.
- PATCH, SEAL AND INSULATE ANY UNUSED ROOF PENETRATIONS.
- SHADED LINE-TYPES INDICATE EXISTING SERVICES.
- ALL SANITARY VENTING SHALL CONFORM TO THE LOCAL PLUMBING CODE AND REGULATIONS. ALL EXISTING CONDITIONS SHALL BE VERIFIED AND CONFIRMED PRIOR TO STARTING CONSTRUCTION ON SITE. ALL WORK SHALL CONFORM TO BASE BUILDING STANDARDS AND SPECIFICATIONS.
- ALL TRENCHING AND PENETRATION OF FLOOR SHALL BE APPROVED BY LANDLORD PRIOR TO CONSTRUCTION. ALL WORK SHALL BE COORDINATED ON SITE.
- PLUMBING INSTALLATION SHALL BE IN ACCEPTANCE WITH PLUMBING CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE BACKFLOW PREVENTERS ON EQUIPMENT AS NECESSARY.

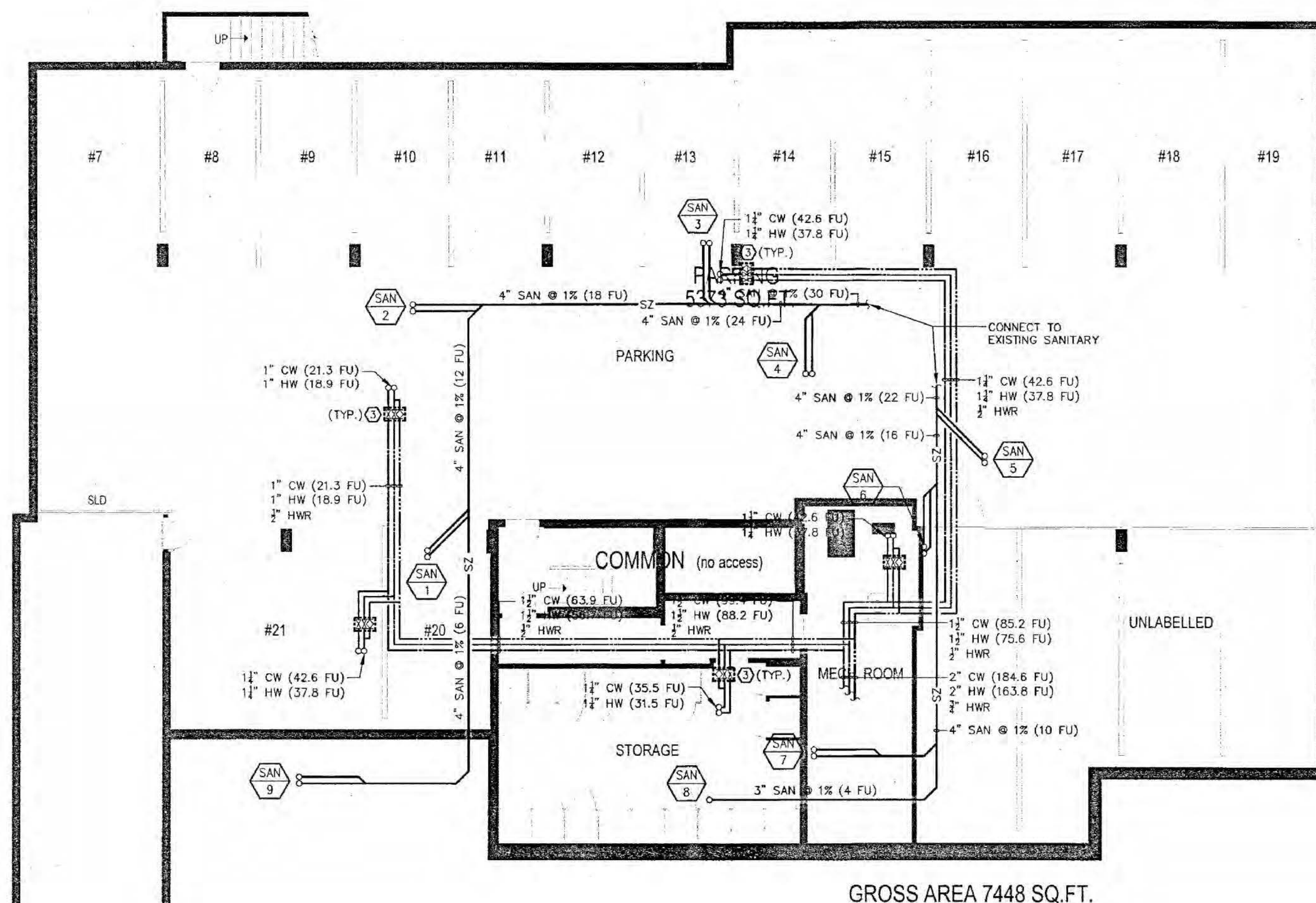
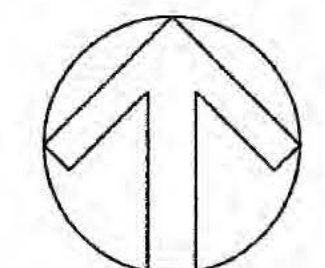
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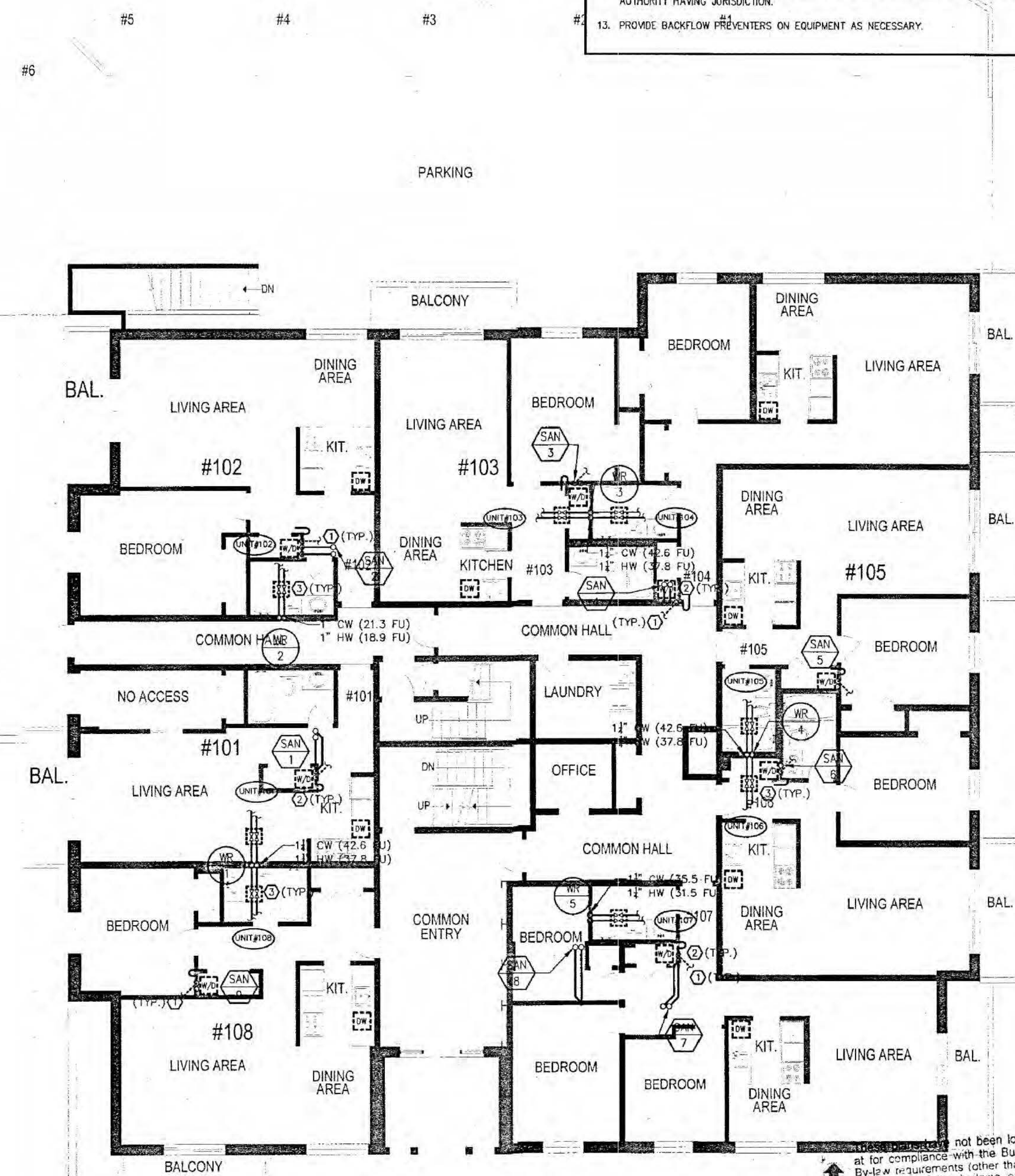
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201-1940 Oxford Connector,
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Phone: (604) 210-0021
Fax: (604) 210-0017
Web: www.cadaconsultants.com
Email: info@cadaconsultants.com
C018-082



1 PLUMBING: PARKING FLOOR PLAN
SCALE 1/4" = 1'-0"



2 PLUMBING: FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

CITY OF VANCOUVER

BP-2018-05371

ACCEPTED

not been looked at for compliance with the Building Act requirements (other than as to location of the building on the site). They are not accepted for purposes of that By-law until the Disposal Building Inspector endorses his acceptance of the 'Building Permit-Inspection Approval Record', his 'Inspection Record' and hereon

Inspector's Name:
(Print and Sign)

Project:
**DOMESTIC WATER RE-PIPING
AND ADDED CLOTHES
WASHERS**
**95 EAST 14 AVE,
VANCOUVER, BC**

Drawing Title:
**PLUMBING:
PARKING & FIRST
FLOOR PLAN**

Date:
Drawn By: AD/CA/AS
Checked By: NP
Scale: AS SHOWN
Drawing No.: **P-2.0**

KEY NOTES

- CONNECT TO EXISTING VENT. (TYPICAL)
- CLOTHES WASHER DRAINS/STACKS TO HAVE SEPARATE SANITARY LINE FOR SUD PRESSURE ZONE RESTRICTIONS. CONNECT TO DOWNSTREAM OF BUILDING DRAIN WITH 40X DIAMETER OF MAIN SANITARY LINE. (TYPICAL)
- PROVIDE RATED ACCESS PANEL AND VALVE TAGGING. (TYPICAL)

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- ALL SANITARY VENTING SHALL CONFORM TO THE LOCAL PLUMBING CODE AND REGULATIONS. ALL EXISTING CONDITIONS SHALL BE VERIFIED AND CONFIRMED PRIOR TO STARTING CONSTRUCTION ON SITE. ALL WORK SHALL CONFORM TO BASE BUILDING STANDARDS AND SPECIFICATIONS.
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- PROVIDE BACKFLOW PREVENTERS ON EQUIPMENT AS NECESSARY.

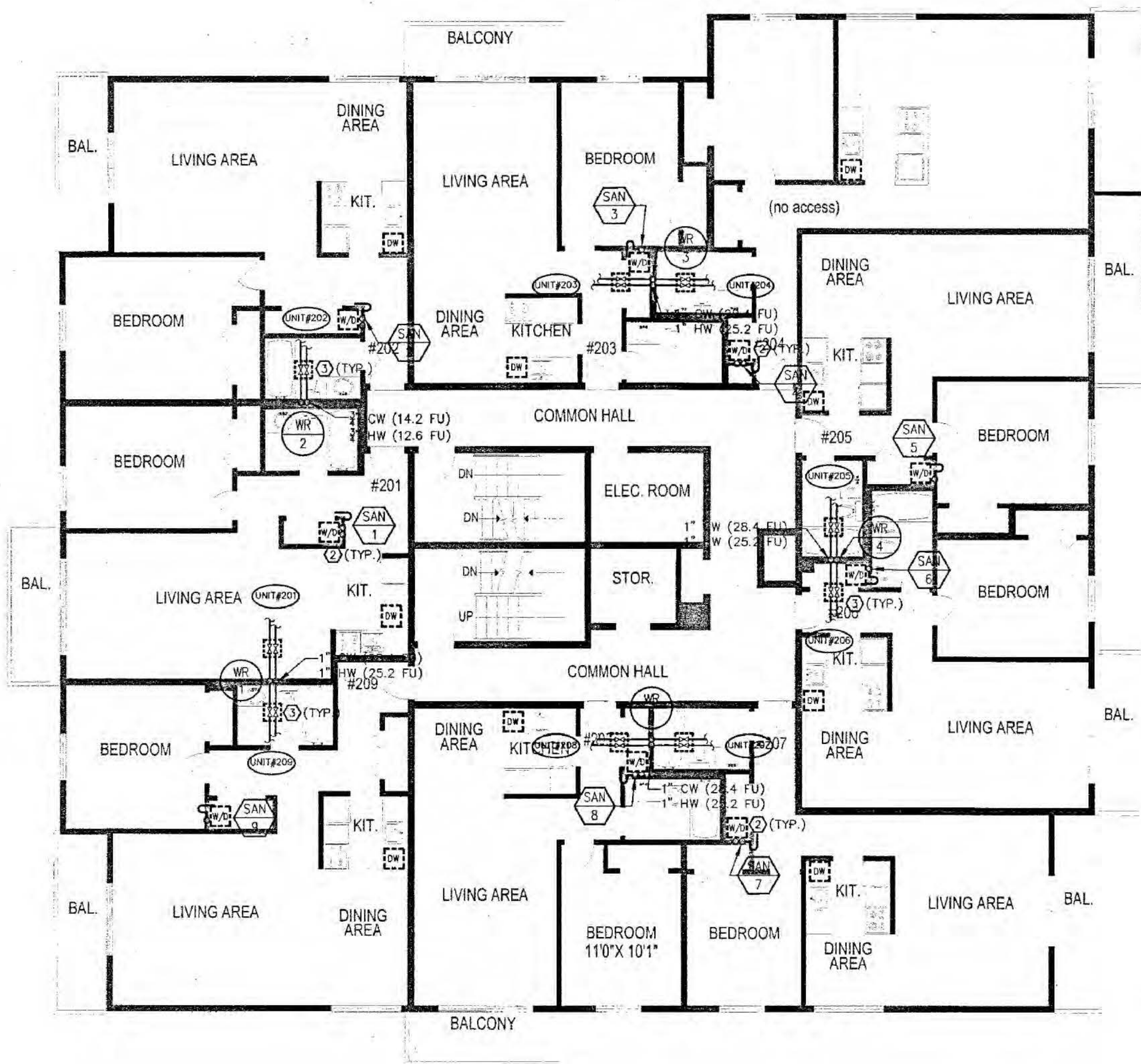
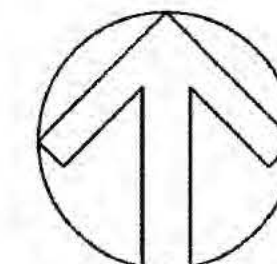
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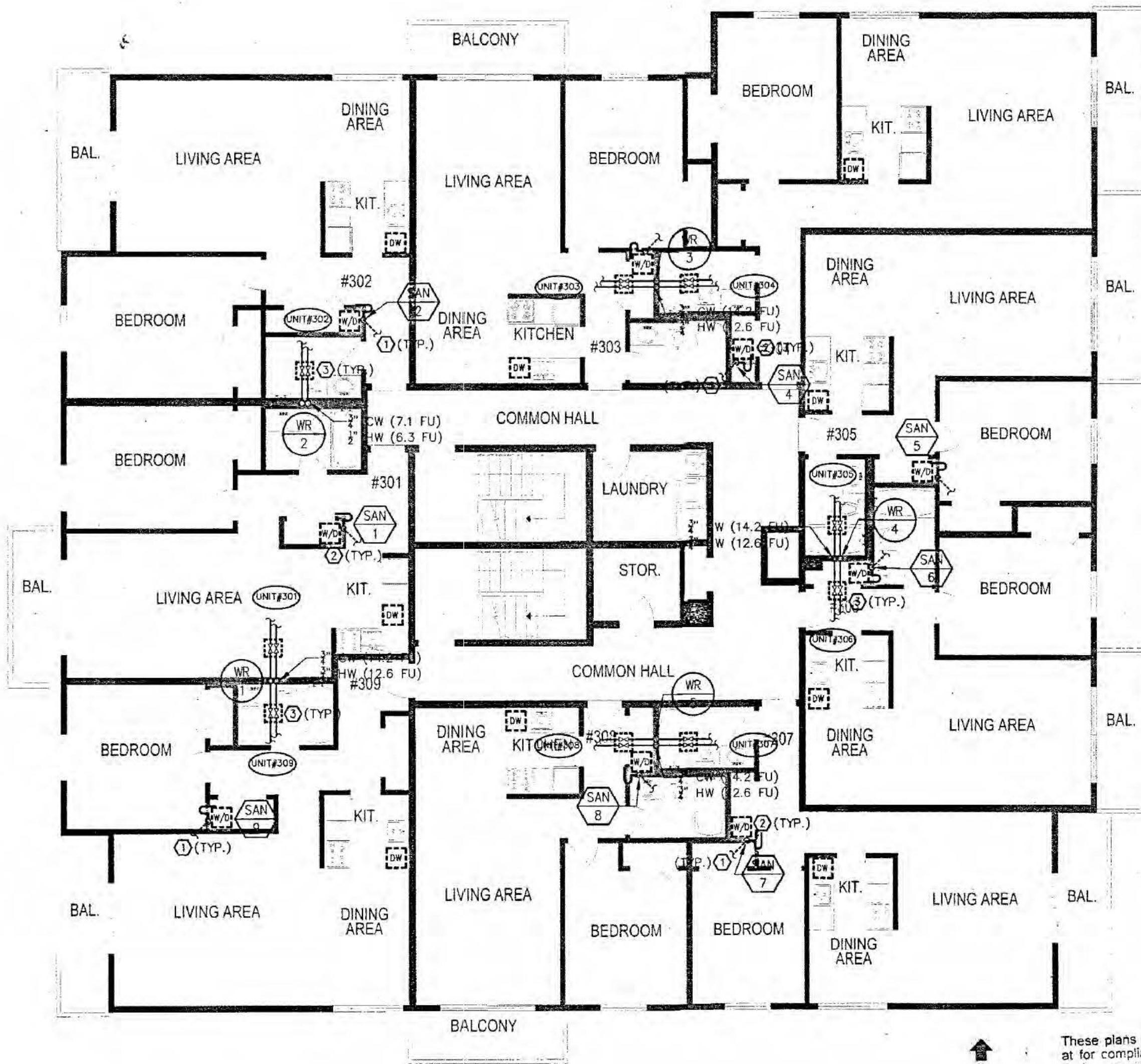
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Mechanical • Electrical •
201-1940 Oxford Connector,
Port Coquitlam, B.C. V3C 0A4
Phone: (604) 210-0021
Fax: (604) 210-0017
Web: www.cadaconsultants.com
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CD18-082



1 PLUMBING: SECOND FLOOR PLAN
P-21 SCALE 1/8" = 1'-0"



2 PLUMBING: THIRD FLOOR PLAN
P-22 SCALE 1/8" = 1'-0"

CITY OF VANCOUVER

BP-2018-05371

ACCEPTED

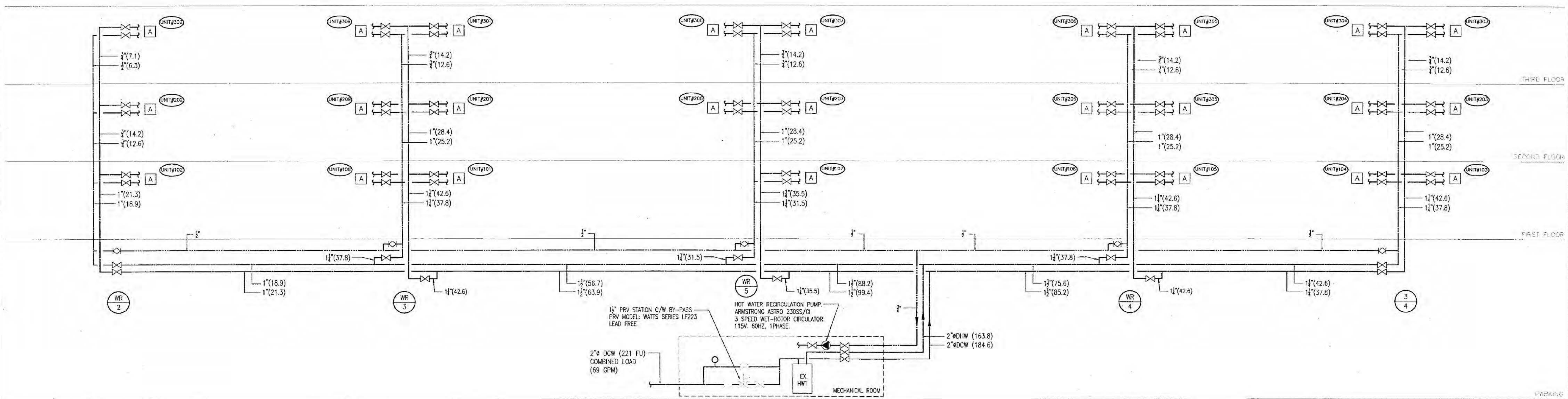
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Inspector's Name
(Print and Sign)

DOMESTIC WATER RE-PIPING
AND ADDED CLOTHES
WASHERS
95 EAST 14 AVE,
VANCOUVER, BC

PLUMBING:
SECOND & THIRD
FLOOR PLAN

Date: _____
Drawn By: AD/CA/AS
Checked By: NP
Scale: AS SHOWN
Drawing No: P-2.1



General Notes

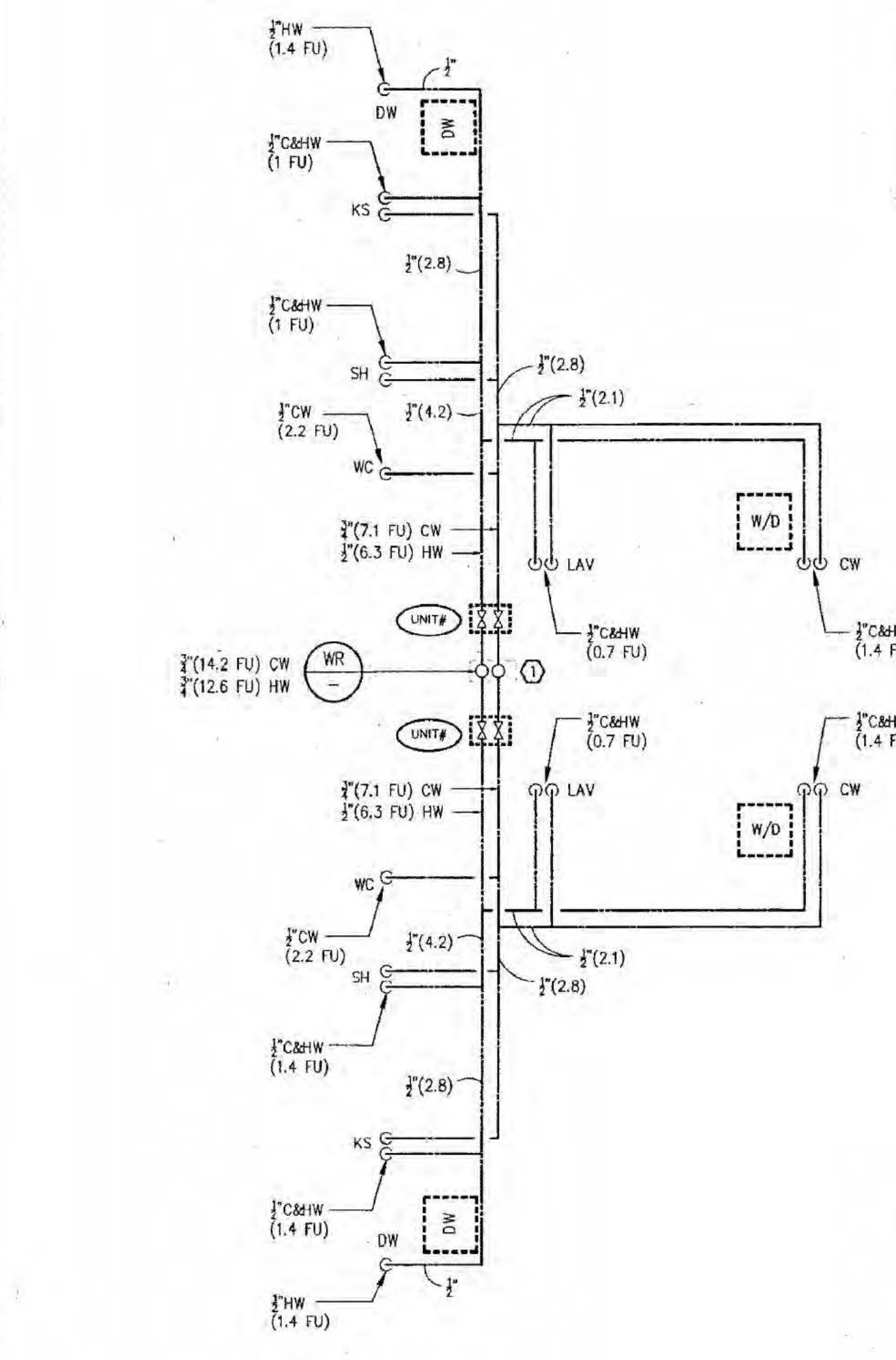
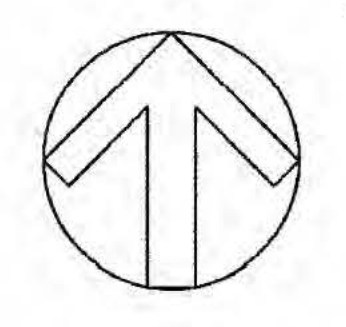
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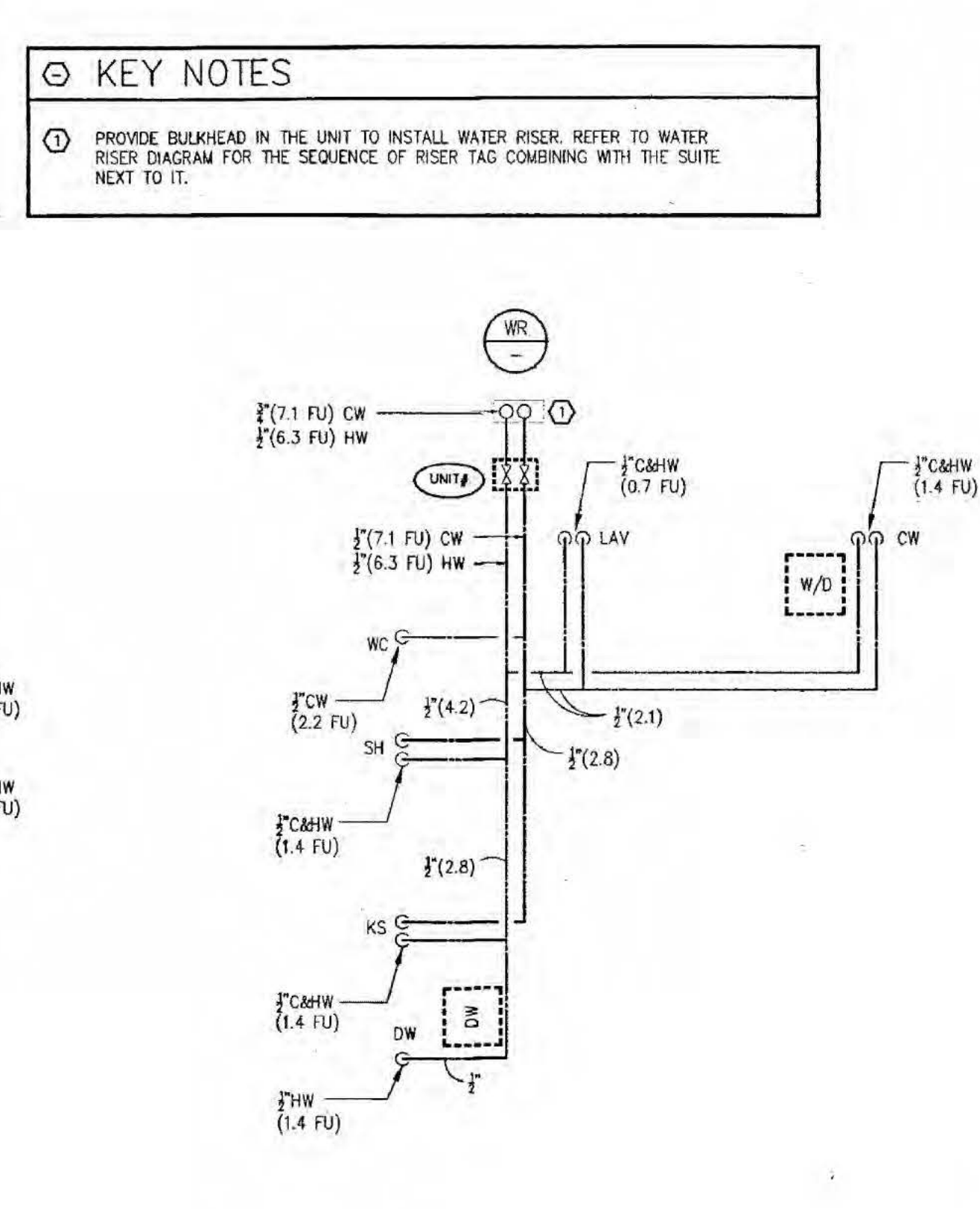
CADA & Associates Consulting Ltd.

Mechanical • Electrical •

201-1940 Oxford Connector,
Port Coquitlam, B.C. V3C 0M4
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Fax: (604) 210-0017
Web: www.cadaconsultants.com
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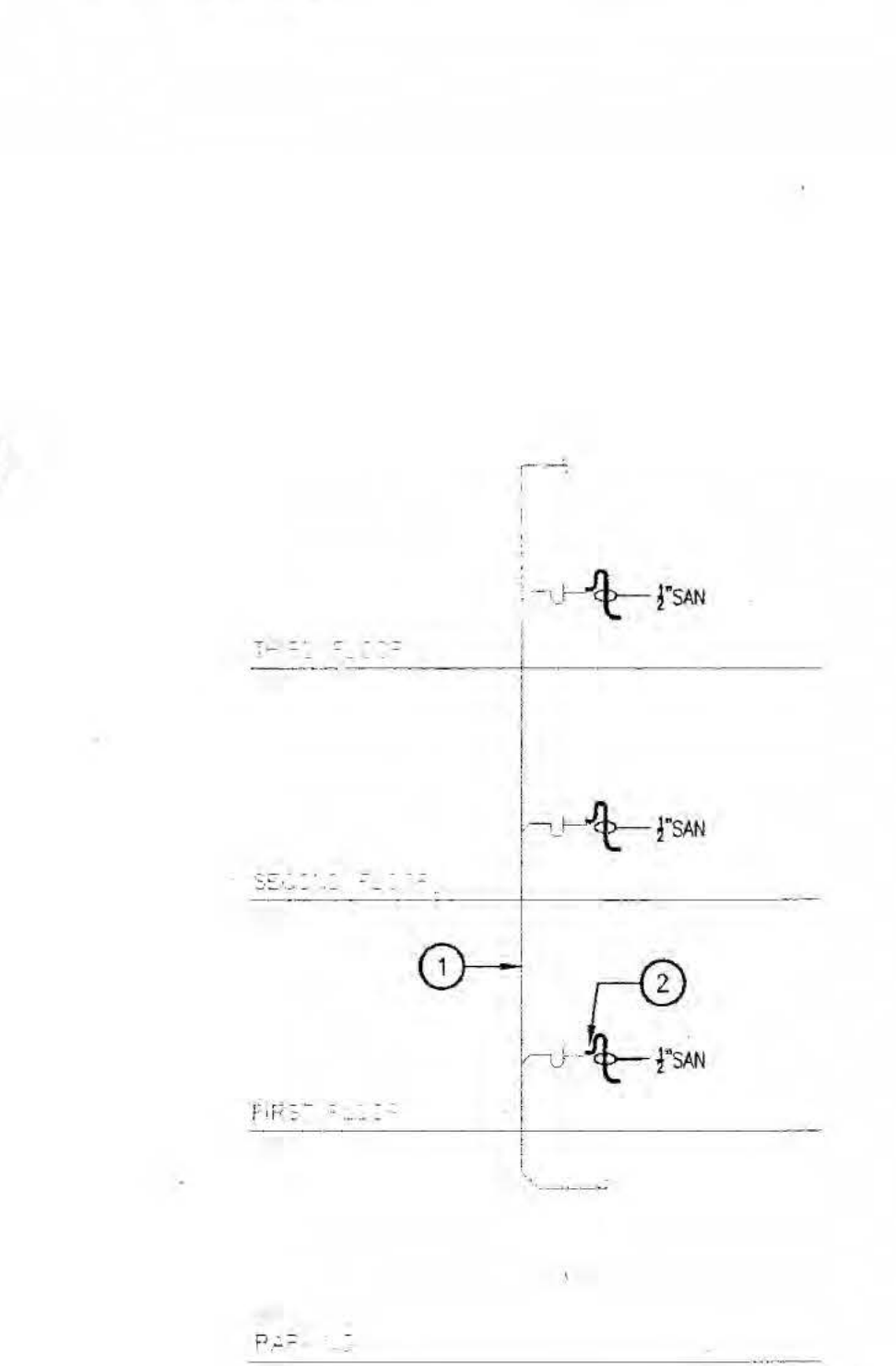


2 TYPICAL BACK TO BACK UNIT WATER DISTRIBUTION
P-3.0 SCALE: NTS



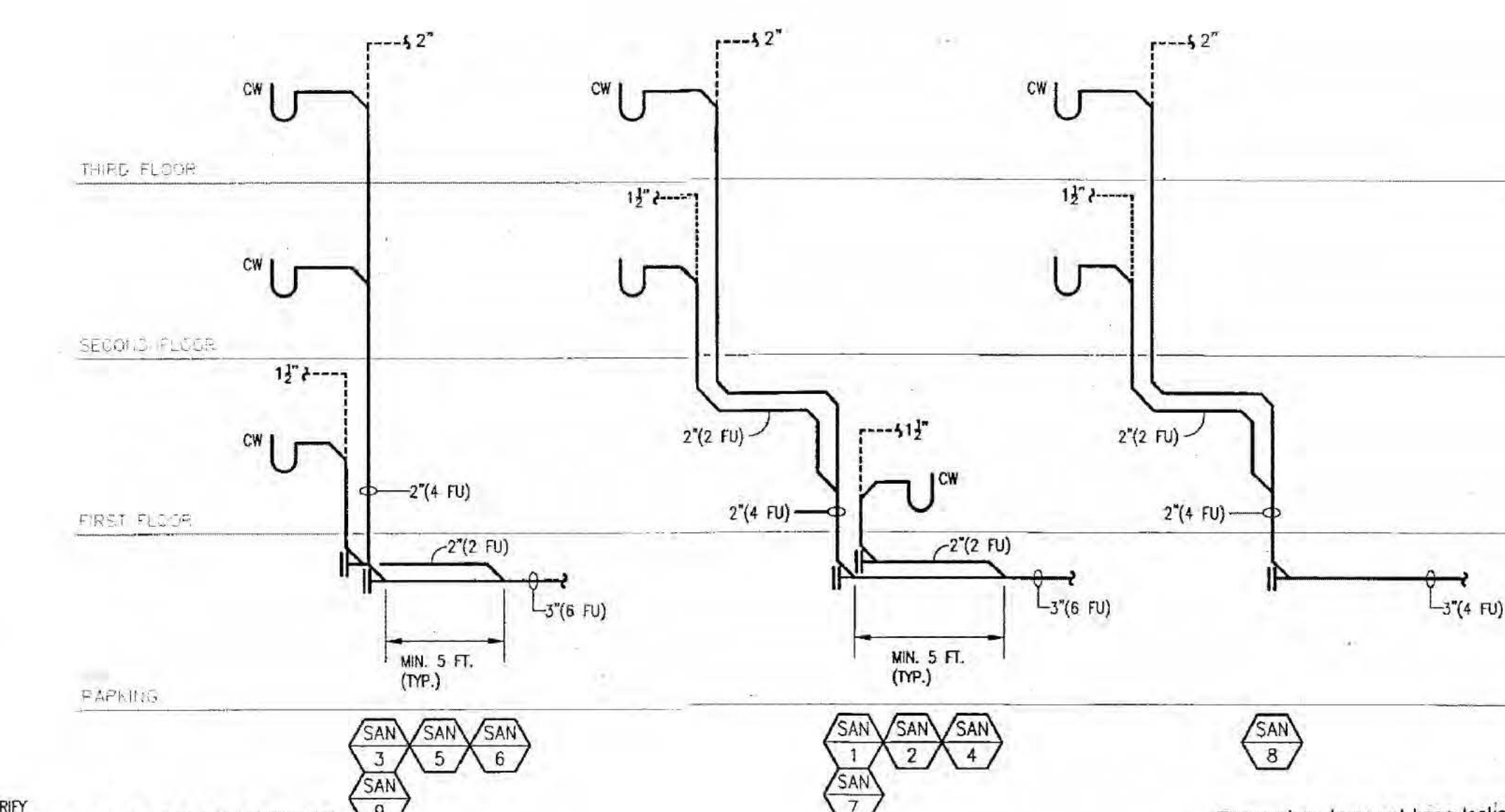
3 TYPICAL SINGLE UNIT WATER DISTRIBUTION
P-3.0 SCALE: NTS

1 UNIT WATER RISER DIAGRAM
P-3.0 SCALE: NTS



4 DISHWASHER DRAIN CONNECTION TO EXISTING KITCHEN SINK (TYPICAL)
SCALE: NTS

WATER DISTRIBUTION				
MANIFOLD TYPE	FIXTURE GROUP	FIXTURE UNITS - PIPE SIZE (OUTLETS)		
		COLD WATER	HOT WATER	COMBINED
A UNIT TYPE	WC, L, BT, KS, DW, CW	1" (7.1 FU)	1/2" (6.3 FU)	8.5 FU



5 CLOTHES WASHER SANITARY SCHEMATIC (TYPICAL)
P-3.0 SCALE: NTS

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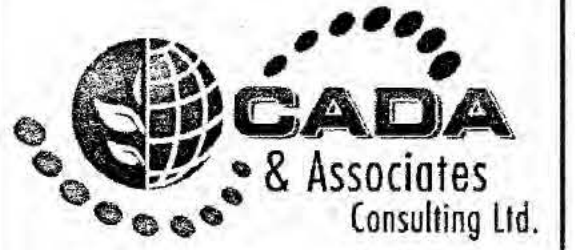
CITY OF VANCOUVER
BP-2018-05371
ACCEPTED

Issue	Issued For BP	2018-10-05
Description		Date
Engineer's seal:		
Project:		
DOMESTIC WATER RE-PIPING AND ADDED CLOTHES WASHERS 95 EAST 14 AVE, VANCOUVER, BC		
Drawing Title:		
WATER & SANITARY SCHEMATICS		
Date:		
Drawn By:	AD/CA/AS	Drawing No.
Checked By:	NP	P-3.0
Scale:	AS SHOWN	

General Notes

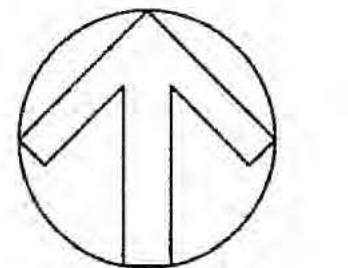
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* Mechanical * Electrical *

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Port Coquitlam, B.C. V3C 0M4
Phone: (604) 210-0021
Fax: (604) 210-0017
Web: www.cadaconsultants.com
Email: info@cadaconsultants.com
C018-082



Issue	Description	Date
1	ISSUED FOR BP	2018-10-26

Engineer's seal:



Project:

**DOMESTIC WATER RE-PIPING
AND ADDED CLOTHES
WASHERS**

**95 EAST 14 AVE,
VANCOUVER, BC**

Drawing Title:

DETAILS

Date:

Drawn By: AD/CA/AS

Checked By: NP

Scale: AS SHOWN

Drawing No:
P-4.0

System No. W-1-2036C

F Rating - 1 Hr
FT Rating - 1 Hr
PTH Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. W-1-2036C meets Canadian testing code requirements for drain, waste and vent (DWV) pipe penetrations.

- Wall Assembly** - The 1 hr fire-rated general horizontal wall assembly shall be constructed of the materials and in the manner specified in the individual L200, L400 or L600 Series Wall and Partition Design Details in the Fire Resistance Directory and shall include the following construction details:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 1 1/2 in (38 mm) nominal spaced 400 mm OC. Steel studs to be min 14 in (355 mm) wide and spaced max 120 mm OC.
 - Gypsum Board** - Min 1/2 in (12.7 mm) thick. Type, number of layers and fasteners to be as specified in the individual Wall and Partition Design. Gypsum board to be 13 to 20 mm larger than OC of through penetrations (Item 2).
- Through Penetration** - One nonmetallic pipe or conduit installed concentrically or eccentrically within the fire-rated wall. The annular space between the pipe or conduit and the edge of the opening to be min 6 mm to max 10 mm. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe or conduit may be used:

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. W-1-2036C

F Rating - 1 Hr
FT Rating - 1 Hr
PTH Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. W-1-2036C meets Canadian testing code requirements for drain, waste and vent (DWV) pipe penetrations.

- Wall Assembly** - The 1 hr fire-rated general horizontal wall assembly shall be constructed of the materials and in the manner specified in the individual L200, L400 or L600 Series Wall and Partition Design Details in the Fire Resistance Directory and shall include the following construction details:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 1 1/2 in (38 mm) nominal spaced 400 mm OC. Steel studs to be min 14 in (355 mm) wide and spaced max 120 mm OC.
 - Gypsum Board** - Min 1/2 in (12.7 mm) thick. Type, number of layers and fasteners to be as specified in the individual Wall and Partition Design. Gypsum board to be 13 to 20 mm larger than OC of through penetrations (Item 2).
- Through Penetration** - One nonmetallic pipe or conduit installed concentrically or eccentrically within the fire-rated wall. The annular space between the pipe or conduit and the edge of the opening to be min 6 mm to max 10 mm. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe or conduit may be used:

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. W-1-2036C

F Rating - 1 Hr
FT Rating - 1 Hr
PTH Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. W-1-2036C meets Canadian testing code requirements for drain, waste and vent (DWV) pipe penetrations.

- Wall Assembly** - The 1 hr fire-rated general horizontal wall assembly shall be constructed of the materials and in the manner specified in the individual L200, L400 or L600 Series Wall and Partition Design Details in the Fire Resistance Directory and shall include the following construction details:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 1 1/2 in (38 mm) nominal spaced 400 mm OC. Steel studs to be min 14 in (355 mm) wide and spaced max 120 mm OC.
 - Gypsum Board** - Min 1/2 in (12.7 mm) thick. Type, number of layers and fasteners to be as specified in the individual Wall and Partition Design. Gypsum board to be 13 to 20 mm larger than OC of through penetrations (Item 2).
- Through Penetration** - One nonmetallic pipe or conduit installed concentrically or eccentrically within the fire-rated wall. The annular space between the pipe or conduit and the edge of the opening to be min 6 mm to max 10 mm. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe or conduit may be used:

The basic Standard used to evaluate this Firestop System is CANULC-1778

INSULATED PIPE HANGER DETAIL

N.T.S.

Labels: HANGER ROD, HANGER, VAPOUR BARRIER, INSULATION, PIPE, SHEET METAL SADDLE (14 Gs. & 16" (400mm) LONG), HIGH DENSITY CALCIUM SILICATE INSULATION (1/2" OF PIPE CIRCUMFERENCE & 12" (300mm) LONG), INSULATION JACKET SEE SPECIFICATION

PIPE IDENTIFICATION DETAIL

N.T.S.

Labels: PIPE, PIPE INSULATION, HOT WATER SUPPLY, TYPICAL CONTINUOUS PIPE IDENTIFICATION MARKER & DIRECTION OF FLOW ARROW TO EXTEND 1" (25mm) INTO TAPE, TYPICAL 2" (50mm) WIDE COLOR-CODED TAPE (WEAR A MIN. OF 18" (450mm) AROUND PIPE)

NOTES:
APPLY A CONTINUOUS COATING OF CONTACT CEMENT TO THE LABEL TO ENSURE PERMANENT ADHESION.
REFER TO SPECIFICATION FOR COLOUR-CODING OF SERVICES & INSTALLATION.

TYPICAL HWR BALANCING DETAIL

N.T.S.

Labels: BALANCING VALVE, CHECK VALVE, SHUT-OFF, PRESSURE ACCESS PANEL, ANCHOR (TYPICAL), GUIDES (TYPICAL)

EXPANSION LOOP

DOMESTIC HOT WATER SUPPLY & RETURN PIPING

N.T.S.

Labels: ANCHOR (TYPICAL), GUIDES (TYPICAL), 30 M (100'-0" MAX), 6" (150mm)

EXPANSION LOOP DIMENSIONS		
PIPE SIZE	LENGTH 'A'	LENGTH 'B'
1/2" - 3/4"	400mm (15-7/8")	300mm (11-7/8")
1" - 1 1/4"	400mm (15-7/8")	400mm (15-7/8")
1 1/2" - 2"	400mm (15-7/8")	400mm (15-7/8")
2 1/2" - 3"	400mm (15-7/8")	400mm (15-7/8")
3 1/2" - 4"	400mm (15-7/8")	400mm (15-7/8")
4 1/2" - 6"	400mm (15-7/8")	400mm (15-7/8")
6" - 8"	400mm (15-7/8")	400mm (15-7/8")
8" - 10"	400mm (15-7/8")	400mm (15-7/8")
10" - 12"	400mm (15-7/8")	400mm (15-7/8")
12" - 14"	400mm (15-7/8")	400mm (15-7/8")
14" - 16"	400mm (15-7/8")	400mm (15-7/8")
16" - 18"	400mm (15-7/8")	400mm (15-7/8")
18" - 20"	400mm (15-7/8")	400mm (15-7/8")
20" - 22"	400mm (15-7/8")	400mm (15-7/8")
22" - 24"	400mm (15-7/8")	400mm (15-7/8")
24" - 26"	400mm (15-7/8")	400mm (15-7/8")
26" - 28"	400mm (15-7/8")	400mm (15-7/8")
28" - 30"	400mm (15-7/8")	400mm (15-7/8")
30" - 32"	400mm (15-7/8")	400mm (15-7/8")
32" - 34"	400mm (15-7/8")	400mm (15-7/8")
34" - 36"	400mm (15-7/8")	400mm (15-7/8")
36" - 38"	400mm (15-7/8")	400mm (15-7/8")
38" - 40"	400mm (15-7/8")	400mm (15-7/8")
40" - 42"	400mm (15-7/8")	400mm (15-7/8")
42" - 44"	400mm (15-7/8")	400mm (15-7/8")
44" - 46"	400mm (15-7/8")	400mm (15-7/8")
46" - 48"	400mm (15-7/8")	400mm (15-7/8")
48" - 50"	400mm (15-7/8")	400mm (15-7/8")
50" - 52"	400mm (15-7/8")	400mm (15-7/8")
52" - 54"	400mm (15-7/8")	400mm (15-7/8")
54" - 56"	400mm (15-7/8")	400mm (15-7/8")
56" - 58"	400mm (15-7/8")	400mm (15-7/8")
58" - 60"	400mm (15-7/8")	400mm (15-7/8")
60" - 62"	400mm (15-7/8")	400mm (15-7/8")
62" - 64"	400mm (15-7/8")	400mm (15-7/8")
64" - 66"	400mm (15-7/8")	400mm (15-7/8")
66" - 68"	400mm (15-7/8")	400mm (15-7/8")
68" - 70"	400mm (15-7/8")	400mm (15-7/8")
70" - 72"	400mm (15-7/8")	400mm (15-7/8")
72" - 74"	400mm (15-7/8")	400mm (15-7/8")
74" - 76"	400mm (15-7/8")	400mm (15-7/8")
76" - 78"	400mm (15-7/8")	400mm (15-7/8")
78" - 80"	400mm (15-7/8")	400mm (15-7/8")
80" - 82"	400mm (15-7/8")	400mm (15-7/8")
82" - 84"	400mm (15-7/8")	400mm (15-7/8")
84" - 86"	400mm (15-7/8")	400mm (15-7/8")
86" - 88"	400mm (15-7/8")	400mm (15-7/8")
88" - 90"	400mm (15-7/8")	400mm (15-7/8")
90" - 92"	400mm (15-7/8")	400mm (15-7/8")
92" - 94"	400mm (15-7/8")	400mm (15-7/8")
94" - 96"	400mm (15-7/8")	400mm (15-7/8")
96" - 98"	400mm (15-7/8")	400mm (15-7/8")
98" - 100"	400mm (15-7/8")	400mm (15-7/8")

These plans have not been looked at for compliance with the Building By-law requirements other than as to location of the building on the lot. They are not accepted for purposes of that By-law until the District Building Inspector endorses his acceptance of the "Building Permit Application Approval Record", his "Inspection Report" and hereon.

Inspector's Name (Print and Sign)

System No. F-C-2200

F Rating - 1 Hr
T Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. F-C-2200 meets Canadian testing code requirements for floor-ceiling assemblies.

- Floor-Ceiling Assembly** - The 1 hr fire-rated solid or insulated floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L200 Series Floor-Ceiling Design Details in the Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
 - Flowing System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Material as specified in the individual Floor-Ceiling design. Gypsum board to be 13 to 20 mm larger than nominal size of joist.
 - Wood Joists** - Nom 10 in (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joist, installed or Embedded Wood Members with blocking as required and with sheathing.
 - Gypsum Board** - Nom 5/8 in (15.9 mm) thick, as specified in the individual Floor-Ceiling design. Gypsum board to be 13 to 20 mm larger than nominal size of joist.

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. F-C-2200

F Rating - 1 Hr
T Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. F-C-2200 meets Canadian testing code requirements for floor-ceiling assemblies.

- Floor-Ceiling Assembly** - The 1 hr fire-rated solid or insulated floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L200 Series Floor-Ceiling Design Details in the Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
 - Flowing System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Material as specified in the individual Floor-Ceiling design. Gypsum board to be 13 to 20 mm larger than nominal size of joist.
 - Wood Joists** - Nom 10 in (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joist, installed or Embedded Wood Members with blocking as required and with sheathing.
 - Gypsum Board** - Nom 5/8 in (15.9 mm) thick, as specified in the individual Floor-Ceiling design. Gypsum board to be 13 to 20 mm larger than nominal size of joist.

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. F-C-2200

F Rating - 1 Hr
T Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. F-C-2200 meets Canadian testing code requirements for floor-ceiling assemblies.

- Floor-Ceiling Assembly** - The 1 hr fire-rated solid or insulated floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L200 Series Floor-Ceiling Design Details in the Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
 - Flowing System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Material as specified in the individual Floor-Ceiling design. Gypsum board to be 13 to 20 mm larger than nominal size of joist.
 - Wood Joists** - Nom 10 in (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joist, installed or Embedded Wood Members with blocking as required and with sheathing.
 - Gypsum Board** - Nom 5/8 in (15.9 mm) thick, as specified in the individual Floor-Ceiling design. Gypsum board to be 13 to 20 mm larger than nominal size of joist.

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. C-AJ-2061

F Rating - 2 Hr
FT Rating - 2 Hr
PTH Rating - 2 Hr
L Rating At Ambient - Less Than 0.5 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. C-AJ-2061 meets Canadian testing code requirements for wall assemblies.

- Wall Assembly** - The 2 hr fire-rated wall assembly shall be constructed of the materials and in the manner specified in the individual L200 Series Wall and Partition Design Details in the Fire Resistance Directory and shall include the following construction details:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 1 1/2 in (38 mm) nominal spaced 400 mm OC. Steel studs to be min 14 in (355 mm) wide and spaced max 120 mm OC.
 - Gypsum Board** - Min 1/2 in (12.7 mm) thick. Type, number of layers and fasteners to be as specified in the individual Wall and Partition Design. Gypsum board to be 13 to 20 mm larger than OC of through penetrations (Item 2).
- Through Penetration** - One nonmetallic pipe or conduit installed concentrically or eccentrically within the fire-rated wall. The annular space between the pipe or conduit and the edge of the opening to be min 6 mm to max 10 mm. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe or conduit may be used:

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. C-AJ-2061

F Rating - 2 Hr
FT Rating - 2 Hr
PTH Rating - 2 Hr
L Rating At Ambient - Less Than 0.5 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. C-AJ-2061 meets Canadian testing code requirements for wall assemblies.

- Wall Assembly** - The 2 hr fire-rated wall assembly shall be constructed of the materials and in the manner specified in the individual L200 Series Wall and Partition Design Details in the Fire Resistance Directory and shall include the following construction details:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 1 1/2 in (38 mm) nominal spaced 400 mm OC. Steel studs to be min 14 in (355 mm) wide and spaced max 120 mm OC.
 - Gypsum Board** - Min 1/2 in (12.7 mm) thick. Type, number of layers and fasteners to be as specified in the individual Wall and Partition Design. Gypsum board to be 13 to 20 mm larger than OC of through penetrations (Item 2).
- Through Penetration** - One nonmetallic pipe or conduit installed concentrically or eccentrically within the fire-rated wall. The annular space between the pipe or conduit and the edge of the opening to be min 6 mm to max 10 mm. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe or conduit may be used:

The basic Standard used to evaluate this Firestop System is CANULC-1778

System No. C-AJ-2061

F Rating - 2 Hr
FT Rating - 2 Hr
PTH Rating - 2 Hr
L Rating At Ambient - Less Than 0.5 CFM / Sq. Ft.
L Rating At 40°F - 3 CFM / Sq. Ft.

Section A-A

System tested with a pressure differential of 0.1 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. System No. C-AJ-2061 meets Canadian testing code requirements for wall assemblies.

- Wall Assembly** - The 2 hr fire-rated wall assembly shall be constructed of the materials and in the manner specified in the individual L200 Series Wall and Partition Design Details in the Fire Resistance Directory and shall include the following construction details:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 1 1/2 in (38 mm) nominal spaced 400 mm OC. Steel studs to be min 14 in (355 mm) wide and spaced max 120 mm OC.
 - Gypsum Board** - Min 1/2 in (12.7 mm) thick. Type, number of layers and fasteners to be as specified in the individual Wall and Partition Design. Gypsum board to be 13 to 20 mm larger than OC of through penetrations (Item 2).
- Through Penetration** - One nonmetallic pipe or conduit installed concentrically or eccentrically within the fire-rated wall. The annular space between the pipe or conduit and the edge of the opening to be min 6 mm to max 10 mm. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe or conduit may be used:

The basic Standard used to evaluate this Firestop System is CANULC-1778

CITY OF VANCOUVER

BP-2018-05371

ACCEPTED

Mahpour, Hamid

From: Jeliazkova, Diana
Sent: Tuesday, December 17, 2019 1:01 PM
To: Mahpour, Hamid; Renter Office
Cc: Kuhlmann, Thor
Subject: RE: 95 E 14 AV, BP-2019-01801

Hi Hamid,

The Renter Office does not have a hold on this BP permit. If a DP application were to come in for this address, then we would have requirements of the applicant with respect to a Tenant Relocation Plan. We were under the impression that a DP application was expected, but we understand this has not been received therefore we do not need any additional information from the applicant at this time.

Please let me know if you have any questions.

Thank you,
Diana

Diana Jeliazkova
Affordable Housing Programs | City of Vancouver
diana.jeliazkova@vancouver.ca
604-829-9279

From: Mahpour, Hamid
Sent: Wednesday, December 11, 2019 11:20 AM
To: Jeliazkova, Diana; Renter Office
Subject: RE: 95 E 14 AV, BP-2019-01801

Please note that I am still awaiting Renter's Office clarification on whether I can go ahead issuing the permit. Customer is under the impression that the requirement of the COV are already satisfied to issue the building permit.

Please call me at (604) 871- 6024 if there are any questions or concerns.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

From: Mahpour, Hamid
Sent: Monday, December 09, 2019 4:33 PM
To: Jeliazkova, Diana
Subject: RE: 95 E 14 AV, BP-2019-01801

No I do not have that information.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

From: Jeliaskova, Diana
Sent: Monday, December 09, 2019 1:05 PM
To: Mahpour, Hamid; Renter Office
Cc: Kuhlmann, Thor; Ellis, Sarah
Subject: RE: 95 E 14 AV, BP-2019-01801

Hi Hamid,

It was our understanding that there was an enquiry for a DP application for this building to add a 4th storey to the existing 3 storeys. This was to be an extended scope of work to an existing BP for renovation of this building. If this DP application were to come in, it would trigger a Tenant Relocation Plan. Do you have any updated information about the status of that enquiry?

Thanks,
Diana

Diana Jeliaskova
Affordable Housing Programs | City of Vancouver
diana.jeliaskova@vancouver.ca
604-829-9279

From: Mahpour, Hamid
Sent: Monday, December 09, 2019 11:17 AM
To: Renter Office; Jeliaskova, Diana
Cc: Kuhlmann, Thor; Ellis, Sarah
Subject: RE: 95 E 14 AV, BP-2019-01801

David

There is no DP at this time for the requested changes. They have complied with all application requirements and the permit is ready to be issued. I cannot hold on to the permit not issuing it, if all application requirements are resolved. So far we have not been opening a review group for renter's office and notification at the application intake was deemed sufficient, knowing that enquiry officers or development planners has already finalized issues related to the building being a rental property. Please clarify.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch

Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

From: Renter Office
Sent: Monday, December 09, 2019 10:17 AM
To: Mahpour, Hamid; Jeliaskova, Diana
Cc: Renter Office; Kuhlmann, Thor; Ellis, Sarah
Subject: RE: 95 E 14 AV, BP-2019-01801

Hello Hamid,

It sounds as if the work required in this BP could lead to tenant displacement. This applicant also applied for a DP (PS-2019-01129) for which the TRPP applies. Maybe it's best to hold issuance of this permit? The planner monitoring any TRP for this address, Thor Kuhlmann, is out of the office until next Monday.

Thanks,

David

From: Ellis, Sarah
Sent: Monday, December 9, 2019 9:40 AM
To: Mahpour, Hamid; Renter Office; Jeliaskova, Diana
Subject: RE: 95 E 14 AV, BP-2019-01801

Thanks Hamid – I haven't been as involved in this file but I am copying Dianna over in ACCS so she's aware.

Best,

Sarah

From: Mahpour, Hamid
Sent: Monday, December 09, 2019 8:53 AM
To: Renter Office; Ellis, Sarah
Subject: RE: 95 E 14 AV, BP-2019-01801
Importance: High

The building permit is ready to be issued today. The customer has paid all the fees and permit application requirements are finalized. Please get back to me, at the latest by the end of today, if I need to withhold issuance of the permit as it is a residential rental building.

Please call me at (604) 871- 6024 if there are any questions or concerns.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

From: Mahpour, Hamid
Sent: Wednesday, May 01, 2019 9:06 AM

To: Renter Office; Ellis, Sarah

Subject: 95 E 14 AV, BP-2019-01801

Permit application BP-2019-01801 is opened for renovation to the rental building at 95 E 14 Avenue. Included in the renovation is changes to layout of the units and replacement of exterior windows. BP-2018-05371 was also issued in December 2018 for re-piping of the said building.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

Renovations - Envelope Performance Comparison

Property Address :

95 east 14th Avenue

Building Permit

BP-2019-01801

Specific Address :

Application No.:

This form is to be completed digitally. For ease of use, pop-up instructions are included.

Calculation

Input (imperial) the Original and Proposed values into the blue boxes below.

Original Envelope

[illegible]

Opaque:

North Elevation
East Elevation
South Elevation
West Elevation

Glazing/Skylights:

All Res. Windows
All Res. Sliding Drs

Assembly		
U-value	x Area (ft^2) =	U x A
0.087	1,900	166
0.087	1,531	134
0.087	1,795.2	157
0.087	1,533.6	134
		-
		-
		-
		-
		-
		-
	6,760	
0.490	670	328
0.490	1,214	595
		-
		-
		-
		-
	1,884	1,513
Original Area:		8,644

Proposed Envelope

Opaque: A/R

[illegible]

Glazing/Skylights:

All Res. Windows	-
All Res. Sliding Drs	-
	-
	-
	-
	-

0.087	1,900	166
0.087	1,531	134
0.087	1,795	157
0.087	1,534	134
		-
		-
		-
		-
		-
		-
	6,760	
	670	-
	1,214	-
		-
		-
		-
		-
		-
	1,884	590
Net Addition / Reduction:		
Opaque:	-	
Glaz/Sky:	-	
	-	0.0%
Proposed Area:	8,644	

Original Envelope:	1,513
Proposed Envelope:	590
Compliant if Zero or Positive:	923

Determination:

Compliant with ASHRAE 90.1

Calculation By:

Rob McLean

of

Stuart Howard Architects

Signature:

City of Vancouver - FOI 2020-098 Page 43 of 64



July 03, 2019

Hamid Mahpour, Project Coordinator
Building Review Branch
City of Vancouver, Development, Buildings and Licensing
Ph: 604.871.6024
email: hamid.mahpour@vancouver.ca

RE: Project Address – 95 East 14th Avenue, Vancouver, BC
(CD18-092)

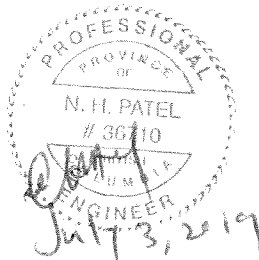
Dear Mr. Mahpour,

This letter is to confirm that work at the address noted, begun under previous building permit BP-2018-05371 will be included under the professional letters of assurance submitted for building permit BP-2019-01801 as issued by the undersigned registered professional named below of CADA and Associates Consulting Ltd.

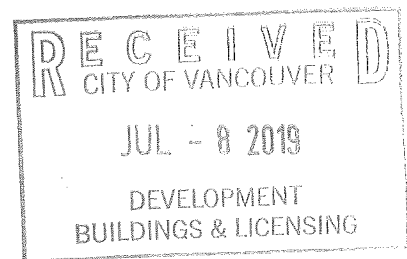
Feel free to contact us should you have any questions regarding this.

Sincerely,

CADA & ASSOCIATES CONSULTING LTD.
Nehal H. Patel, PE, P.Eng, LEED AP
Partner | Mechanical Engineer



CC: Carlo V. Ambito, ASct, LEED AP, TECA



Mahpour, Hamid

From: Mahpour, Hamid
Sent: Tuesday, June 18, 2019 10:43 AM
To: s.22(1)
Cc: Cho, Edna; Loney, Ed
Subject: RE: Building permit BP-2019-01801

s.22(1)

Modification of floor layout is usually part of many residential renovation applications. Contractor are responsible for removal of hazardous material based on Work Safe BC regulations. Building inspectors are aware of possible presence of hazardous materials in older building and may require report of their removal before performing inspection. A term is placed on the permit indicating a survey for hazardous materials be completed before any renovation work begins and a written confirmation that all hazardous materials identified in the survey have been either safely contained or removed. This specific project will requires having a Construction Safety Officer whose part of his/her job is to look after the said. Also note upgrading building structure based on the extent of the renovation work and in compliance with VBBL is a part of renovation projects. Part 11 of VBBL has specific minimum requirements for structural upgrades of the existing buildings which the details will be identified on the permit drawings.

Please call me at (604) 871- 6024 if there are any questions or concerns.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024

From: s.22(1)
Sent: Tuesday, June 18, 2019 8:21 AM
To: Mahpour, Hamid
Subject: Building permit BP-2019-01801

Dear Mr Mahpour,
I was given your name by the Vancouver City Rental Office.
This is regarding Building Permit application BP-2019-01801 (attached)

s.22(1)

I understand there were plans attached to the application, which I have not seen.
The application makes no mention of structural repair or hazmat removal.
Please let me know if either are proposed do they have to be included in the Application and on the plans.
Please let me know if either are mentioned on the plans.
Both are health concerns and the extent of work proposed is in the public domain.

Thanks

s.22(1)

cc Vancouver Renters Office, George Heyman MLA

Mahpour, Hamid

From: Turishev, Boris
Sent: Tuesday, December 03, 2019 10:19 AM
To: rmclean@stuarthoward.com
Cc: Mahpour, Hamid
Subject: FW: Request for Acceptance of Generic Alternative Solution
Attachments: Apply generic AL - Q14 8 pages.pdf; unknown.tiff

Hi, Rob.

The attached is a copy of the accepted generic alternative solution for existing stairs. A copy of the proposal was uploaded into the Documents folder of the Building Permit Application.

Regards,

Boris Turishev, M. Eng., P. Eng., CP, MBA
Building Policy Engineer, Office of the Chief Building Official
Development, Building and Licensing, City of Vancouver
Tel: 604.873.7401
Email: boris.turishev@vancouver.ca
vancouver.ca/CBO

2019 Vancouver Building Bylaw (Effective November 1, 2019):
Council Report Version:
https://app.vancouver.ca/bylaw_net/Report.aspx?bylawid=12511
Print Copy Coming Soon:
<http://www.bccodes.ca/vancouver-bylaws.html>



From: Chief Building Official
Sent: Monday, December 02, 2019 9:24 AM
To: Turishev, Boris
Subject: FW: Request for Acceptance of Generic Alternative Solution

Hi Boris
Could you please follow up as it appears you are already involved.
Thanks
Hollie

From: Rob Mclean [<mailto:rmclean@stuarthoward.com>]
Sent: Friday, November 29, 2019 2:20 PM
To: Chief Building Official
Subject: Request for Acceptance of Generic Alternative Solution

For 95 E 14 AV, BP-2019-01801

See attached, PDF file, electronically sealed and signed. Material issued yesterday, now repackaged as a single PDF. As requested by Boris Turishev

R. McLean
rmclean@stuarthoward.com

Stuart Howard Architects Incorporated
405 - 375 West 5th Avenue
Vancouver, B.C. V5Y 1J6
t-604.688.5585 ext.226
f-604.688.7486

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Mahpour, Hamid

From: Rob Mclean <rmclean@stuarthoward.com>
Sent: Thursday, December 05, 2019 10:29 AM
To: Mahpour, Hamid
Cc: Neil Robertson; Rotta Larry
Subject: 95 E 14 AV, BP-2019-01801 Finalizing Permit

Importance: High

Hi Hamid:

Please note correction to budget valuation

- 1) A contractor has not been selected yet. When he is selected he will have a city business licence, and we will provide all his contact information to you.
- 2) Until a contractor has returned his pricing for the work, the owners are working with a budget of \$ 1,200,000.00, construction and design costs inclusive.

With best regards,
- Rob

R. McLean
rmclean@stuarthoward.com



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Mahpour, Hamid

From: Mahpour, Hamid
Sent: Wednesday, May 01, 2019 10:06 AM
To: 'nrobertson@stuarthoward.com'
Cc: Zienty, Eli; Loney, Ed
Subject: 95 E 14 AV, BP-2019-01801

Importance: High

Permit BP-2019-01801 is opened yesterday for renovation to the building at 95 E 14 Avenue. There is also an issued permit BP-2018-05371 for re-piping of all plumbing lines in the same building. Scope of some work in both permits (e.g. repair and replacement of plumbing walls) is the same which may create difficulty in managing, professional responsibility, and inspection of the work. It is best to cancel building permit BP-2018-05371 and transfer its work to the new building permit BP-2019-01801. Please:

1. Have the permit BP-2018-05371 holder (agent for the owner) to ask Inspection Department to cancel BP-2018-05371.
2. Submit 5 sets of plumbing drawings and related schedules to include its work in BP-2019-01801.

Please call me at (604) 871- 6024 if there are any questions or concerns.

Thank you

Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver
(604)871-6024



STUART HOWARD
ARCHITECTS INC

MEMBERS AIBC - RAIC - AIA

Stuart Howard Architect AIBC SAA FRAIC ALA Principal

W. Neil Robertson Architect AIBC MRAIC ALA Principal

October 07, 2019

SUBJECT: Building Permit Deficiency List

Permit Number: BP-2019-01801

Address: 95 E 14th Avenue

Attn: Mr. Hamid Mahpour

In response to your email list of outstanding items, revision of your original list of 11 September, Email of 30 September.

Same item numbers from your list, your comments in blue, subsequent comments in green, our response in orange.

2. Energy upgrade requirement of the project is E4. Please: → Please discuss the submitted information with our energy policy specialist Greg McCall first and revise accordingly.

This has been discussed, and revised. See emails through October 4th. Drawing sheet A0.01 is reissued with the checklist sheets updated.

a. Revise residential suite energy checklist showing it would be upgraded to L4 level

This has been revised.

b. Revise common area energy checklist for changes to envelope, lighting, and energy upgrade to L4 level

This has been revised.

c. Submit digital files of the common area energy checklist in excel file and its related attachments (e.g. envelope, lighting, SWH) and also those for the energy compliance of residential suites in PDF.

This has been revised.

4. F2 upgrade requires alarms and detectors, emergency lights, access to exit, exits, exit signs, and exit lights within the project and the public area (leading from project area to an acceptable open space) upgraded to comply with current VBBL. Please:

a. Provide exit stair details demonstrating compliance with VBBL → **Not provided. It is outstanding. You may be able to justify the existing noncomplying features of the building to**

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Facsimile: 604 . 688 . 7486

V5Y 1J6

satisfy the upgrade requirements of the project by Alternative Solution. Please contact Boris Turishev of the CBO office at boris.turishev@vancouver.ca to find out.

Notations and modifications have been provided on the drawings. Please see new drawing sheet A2.11 Vestibules & Exit Stairs.

c. Show exit stairs, corridors, and exit lobby are fire separated with assemblies having proper fire resistance rating from the rest of the floor area → Not provided. It is outstanding. See item 4a for AL on existing non complying features of the building.

See A8.02 - revised assembly schedules, where testing of historic materials is noted. Taken from NRC Publications Archive, "Fire endurance of light-framed and miscellaneous assemblies: a compilation of published information on fire endurance of a variety of light-frame walls, partitions, and floors", Galbreath, M. Technical Paper (National Research Council of Canada. Division of Building Research), 1966-06-01

d. Show public corridor and exit lobby are fire separated with assemblies having proper fire resistance rating from other floors including parking garage → Not provided. It is outstanding. See item 4a for AL on existing non complying features of the building.

On the residential floor areas, see revised assembly schedules, where testing of historic materials is noted.

Per assembly schedule, as noted previously, a cast in place concrete slab exists above the parking, providing a 2 hour fire resistance rating or greater, per appendix D, between parking level and the joists or sleepers of main floor.

e. Note the fire resistance rating of the assemblies shall either comply with ULC or VBBL Appendix D. Update wall and floor assembly information on drawing A8.02 as required. → It is outstanding. Also some information on drawing A8.02 is not readable.

Size of text and listings on this sheet have been revised accordingly. Note that very little original drywall has been exposed in the building, and of that no markings for ratings such as type 'x' have been observed yet. Therefore a historical listing of testing for non-rated drywall has been quoted for the typical existing rating. Where walls are opened, and drywall disturbed, new drywall to current standards will be installed to provide ratings as noted.

5. There seems to be shaft and electric closets in corridors. Please provide name of all spaces on the floor plan. Note that laundry room, service rooms, storage room, vertical and horizontal service spaces shall be separated from the rest of the floor area. Provide details including vertical cross section(s) through the building showing horizontal service spaces (if there is any) are separated with proper fire separation from the public corridor and exits. → is outstanding.

One vertical shaft has been identified, which contains the masonry flue from the boiler in the basement. Other 'closets' appear to have been closet-like structures, but are empty and without doors.

Horizontal service spaces have not been found.

Based on the records on file, an additional section cannot provide different information.

6. Residential suite 108 cannot open directly into exit lobby, VBBL 3.4.4.2. → Proposal does not comply with VBBL 3.3.1.12 for doors installed in series. Provide dimensional details demonstrating compliance.

A proposed vestibule entry to the suite has been revised to comply.

8. Clarify how exit route on the east is protected from exposure to unprotected openings of the building, VBBL 3.2.3.13. → Is outstanding.

This is an existing non-conforming condition, which has existed since the original permit. We propose to install automatic fire shutters on the offending openings (windows and sliding doors). These are now indicated on the floor plans of levels 1 and 2, and on the west elevation of the building.

10. Show the main entrance to the building meets H/C access requirements of VBBL including having proper hardware. → Update the door schedule indicating power operation of the door.

The door schedule has been updated accordingly.

11. Update energy information on drawing A0.01 as requested in item 2 above. → It is outstanding. Revise it as discussed.

The tables on this sheet have been updated.

13. Provide bottom of the door/sill installation detail for patio/balcony sliding door. Also provide its head and jamb installation details if different from those shown for window on drawing A9.01. Otherwise clarify on the same drawing that the said details are the same for installation of both, namely windows and patio/balcony doors. → It is outstanding. Revised drawings are not submitted.

Clarification and additional details are provided. See A4.01, Details 3 and 4. See 11/A9.01

16. New sliding doors and windows shall comply with Part 5 of VBBL and energy efficiency requirements of VBBL 10.2.2.7 having maximum thermal transmittance of 1.4 W/(m²K). Indicate it as a statement on architectural drawings. Please also review and clarify the information on drawing A8.01 as single glazing may not provide the required USI values for window and patio doors. → Door information on drawing A8.01a still indicates to single glazed door.

Contradictory information has been corrected.

17. Double check information on drawings and correct where required, e.g. first floor kitchens are being identified as new bath. → Still outstanding.

The remaining instances on level 1 plan have been corrected.

November 7, 2019

Page 4

22. Provide mechanical drawings for kitchen and bathroom fan exhausts, venting of dryers in the laundry rooms (if there is any), and venting of dryers in the residential suites. Please also change name of the laundry rooms on floor plans, if it is not being used as a laundry room anymore. → Place note on the architectural drawings indicating kitchen and bathroom fans uses the existing exhaust ducts.

The note requested has been added.

As noted previously, Kitchen and bathroom exhausts will replace existing equipment, venting through existing ducts; dryers will be ventless condensing models; common laundry rooms are changed as now noted on the plans – old laundry rooms will be used for storage.

Thank you

Rob McLean,

Stuart Howard Architects.



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MEMBERS AIBC - RAIC - AIA

Stuart Howard Architect AIBC SAA FRAIC AIA Principal
W. Neil Robertson Architect AIBC MRAIC AIA Principal

October 07, 2019

Response to

SUBJECT: Building Permit Deficiency List

Permit Number: BP-2019-01801

Address: 95 E 14th Avenue

Attn: Mr. Hamid Mahpour

In response to your email list of outstanding items, revision of your original list of 11 September, Email of 30 September.

Same item numbers from your list, your comments in blue, subsequent comments in green, our response in orange.

2. Energy upgrade requirement of the project is E4. Please: → Please discuss the submitted information with our energy policy specialist Greg McCall first and revise accordingly.

This has been discussed, and revised. See emails through October 4th. Drawing sheet A0.01 is reissued with the checklist sheets updated.

a. Revise residential suite energy checklist showing it would be upgraded to L4 level

This has been revised.

b. Revise common area energy checklist for changes to envelope, lighting, and energy upgrade to L4 level

This has been revised.

c. Submit digital files of the common area energy checklist in excel file and its related attachments (e.g. envelope, lighting, SWH) and also those for the energy compliance of residential suites in PDF.

This has been revised.



4. F2 upgrade requires alarms and detectors, emergency lights, access to exit, exits, exit signs, and exit lights within the project and the public area (leading from project area to an acceptable open space) upgraded to comply with current VBBL. Please:

a. Provide exit stair details demonstrating compliance with VBBL → Not provided. It is outstanding. You may be able to justify the existing noncomplying features of the building to

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satisfy the upgrade requirements of the project by Alternative Solution. Please contact Boris Turishev of the CBO office at boris.turishev@vancouver.ca to find out.

Notations and modifications have been provided on the drawings. Please see new drawing sheet A2.11 Vestibules & Exit Stairs.

c. Show exit stairs, corridors, and exit lobby are fire separated with assemblies having proper fire resistance rating from the rest of the floor area → Not provided. It is outstanding. See item 4a for AL on existing non complying features of the building.

See A8.02 - revised assembly schedules, where testing of historic materials is noted. Taken from NRC Publications Archive, "Fire endurance of light-framed and miscellaneous assemblies: a compilation of published information on fire endurance of a variety of light-frame walls, partitions, and floors", Galbreath, M. Technical Paper (National Research Council of Canada. Division of Building Research), 1966-06-01

d. Show public corridor and exit lobby are fire separated with assemblies having proper fire resistance rating from other floors including parking garage → Not provided. It is outstanding. See item 4a for AL on existing non complying features of the building.

On the residential floor areas, see revised assembly schedules, where testing of historic materials is noted.

Per assembly schedule, as noted previously, a cast in place concrete slab exists above the parking, providing a 2 hour fire resistance rating or greater, per appendix D, between parking level and the joists or sleepers of main floor.

e. Note the fire resistance rating of the assemblies shall either comply with ULC or VBBL Appendix D. Update wall and floor assembly information on drawing A8.02 as required. → It is outstanding. Also some information on drawing A8.02 is not readable.

Size of text and listings on this sheet have been revised accordingly. Note that very little original drywall has been exposed in the building, and of that no markings for ratings such as type 'x' have been observed yet. Therefore a historical listing of testing for non-rated drywall has been quoted for the typical existing rating. Where walls are opened, and drywall disturbed, new drywall to current standards will be installed to provide ratings as noted.

5. There seems to be shaft and electric closets in corridors. Please provide name of all spaces on the floor plan. Note that laundry room, service rooms, storage room, vertical and horizontal service spaces shall be separated from the rest of the floor area. Provide details including vertical cross section(s) through the building showing horizontal service spaces (if there is any) are separated with proper fire separation from the public corridor and exits. → is outstanding. **One vertical shaft has been identified, which contains the masonry flue from the boiler in the basement. Other 'closets' appear to have been closet-like structures, but are empty and without doors.**

Horizontal service spaces have not been found.



Based on the records on file, an additional section cannot provide different information.

6. Residential suite 108 cannot open directly into exit lobby, VBBL 3.4.4.2. → Proposal does not comply with VBBL 3.3.1.12 for doors installed in series. Provide dimensional details demonstrating compliance.

A proposed vestibule entry to the suite has been revised to comply.

8. Clarify how exit route on the east is protected from exposure to unprotected openings of the building, VBBL 3.2.3.13. → Is outstanding.

This is an existing non-conforming condition, which has existed since the original permit. We propose to install automatic fire shutters on the offending openings (windows and sliding doors). These are now indicated on the floor plans of levels 1 and 2, and on the west elevation of the building.

10. Show the main entrance to the building meets H/C access requirements of VBBL including having proper hardware. → Update the door schedule indicating power operation of the door.

The door schedule has been updated accordingly.

11. Update energy information on drawing A0.01 as requested in item 2 above. → It is outstanding. Revise it as discussed.

The tables on this sheet have been updated.

13. Provide bottom of the door/sill installation detail for patio/balcony sliding door. Also provide its head and jamb installation details if different from those shown for window on drawing A9.01. Otherwise clarify on the same drawing that the said details are the same for installation of both, namely windows and patio/balcony doors. → It is outstanding. Revised drawings are not submitted.

Clarification and additional details are provided. See A4.01, Details 3 and 4. See 11/A9.01

16. New sliding doors and windows shall comply with Part 5 of VBBL and energy efficiency requirements of VBBL 10.2.2.7 having maximum thermal transmittance of 1.4 W/(m²K). Indicate it as a statement on architectural drawings. Please also review and clarify the information on drawing A8.01 as single glazing may not provide the required USI values for window and patio doors. → Door information on drawing A8.01a still indicates to single glazed door.

Contradictory information has been corrected.

17. Double check information on drawings and correct where required, e.g. first floor kitchens are being identified as new bath. → Still outstanding.

The remaining instances on level 1 plan have been corrected.



November 7, 2019

Page 4

22. Provide mechanical drawings for kitchen and bathroom fan exhausts, venting of dryers in the laundry rooms (if there is any), and venting of dryers in the residential suites. Please also change name of the laundry rooms on floor plans, if it is not being used as a laundry room anymore. → Place note on the architectural drawings indicating kitchen and bathroom fans uses the existing exhaust ducts.

The note requested has been added.

As noted previously, Kitchen and bathroom exhausts will replace existing equipment, venting through existing ducts; dryers will be ventless condensing models; common laundry rooms are changed as now noted on the plans – old laundry rooms will be used for storage.

Thank you

Rob McLean, 

Stuart Howard Architects.





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ARCHITECTS INC

MEMBERS AIBC - RAIC - AIA

Stuart Howard Architect AIBC SAA FRAIC AIA Principal

W. Neil Robertson Architect AIBC MRAIC AIA Principal

September 10, 2019

SUBJECT: Response to Building Permit Deficiency List

Permit Number: BP-2019-01801

Address: 95 E 14th Avenue

1. Submit:

- a. Architectural schedule B which is also signed off for building envelope item 1.25
[Correction: a confirmed typo in the deficiency list: item 1.25 should read item 1.23];
a revised sealed signed page is provided with item included accordingly herewith.
- b. Building envelope schedule D1
Schedule D1 is provided herewith.
- c. Mechanical schedule B.
A revised Plumbing & Mechanical schedule B provided herewith.

2. Energy upgrade requirement of the project is E4. Please:

E4 is now noted.

- a. Revise residential suite energy checklist showing it would be upgraded to L4 level
Revised checklist showing L4 level upgrade is provided herewith.
- b. Revise common area energy checklist for changes to envelope, lighting, and energy upgrade to L4 level
Revised checklist is provided herewith.
- c. Submit digital files of the common area energy checklist in excel file and its related attachments (e.g. envelope, lighting, SWH) and also those for the energy compliance of residential suites in PDF.
Initial revision is provided herewith, some attachments remain to be acquired; updated electronic package with related attachments will follow within about 48 hours.

3. The architect letter that confirms he takes responsibility and will look after all architecturally related works needs being stamped by the architect. Submit a revised stamped letter.

A new signed sealed letter is provided herewith.

Building Bylaw compliance:

4. F2 upgrade requires alarms and detectors, emergency lights, access to exit, exits, exit signs, and exit lights within the project and the public area (leading from project area to an acceptable open space) upgraded to comply with current VBBL. Please:



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- a. Provide exit stair details demonstrating compliance with VBBL

The stairs are an existing condition which remains as originally permitted; it is not possible to physically rebuild the stairs within this scope.]

- b. Update door schedule to include all related particulars (e.g. fire protection rating , having closer) and demonstrating compliance with VBBL for the main entrance door to dwelling units, main entrance to lobby, door separating first floor exit lobby from public corridor, and all exit doors

Revised drawing sheets are provided with additional/revised door tags; revised door schedule sheet is provided accordingly.

- c. Show exit stairs, corridors, and exit lobby are fire separated with assemblies having proper fire resistance rating from the rest of the floor area .

Revised drawing sheets are provided with fire separations, and the required ratings are noted in the assemblies schedule. However, the original walls are an existing condition as originally permitted.

- d. Show public corridor and exit lobby are fire separated with assemblies having proper fire resistance rating from other floors including parking garage

The Main floor is separated from the parking garage by a concrete slab, described in Building Section A4.01, listed as floor assembly F04 on A8.02, with rating noted per Appendix D on the Assemblies sheet.

The basement of the building is separated from the parking garage by continuous C.I.P. concrete walls 8" thick, shown on floor plan A2.00, assembly We1 scheduled on A8.02, with rating noted per Appendix D.

- e. Note the fire resistance rating of the assemblies shall either comply with ULC or VBBL Appendix D. Update wall and floor assembly information on drawing A8.02 as required.

The assembly schedules have been updated.

5. There seems to be shaft and electric closets in corridors. Please provide name of all spaces on the floor plan. Note that laundry room, service rooms, storage room, vertical and horizontal service spaces shall be separated from the rest of the floor area. Provide details including vertical cross section(s) through the building showing horizontal service spaces (if there is any) are separated with proper fire separation from the public corridor and exits.

There is a vertical shaft which contains a flue exhaust from the boiler room in the basement; there is an alcove on each floor which has no function, and is open to the corridor. Plan sheets are revised to note exhaust flue and the alcoves. No horizontal service spaces have been identified to demonstrate on an additional cross section.

6. Residential suite 108 cannot open directly into exit lobby, VBBL 3.4.4.2.

A revised plan sheet is provided, a vestibule has been added at the entry of the suite.

7. Doors of the suite 101 and 102 cannot open directly into exit, VBBL 3.3.1.3.

A Revised plan and door schedule sheet are provided, a vestibule is provided at the entry of each suite

8. Clarify how exit route on the east is protected from exposure to unprotected openings of the building, VBBL 3.2.3.13.

The existing exit route is not protected from exposure to unprotected openings of suite

#101 and #102.

9. Provide detail demonstrating doors installed in series at entrance to suite 101 and 102 meet VBBL 3.3.1.13(12).

Per item 7 above, the configuration of the doors has been revised.

10. Show the main entrance to the building meets H/C access requirements of VBBL including having proper hardware.

[A powered door opener will be provided. Latch hardware to be revised accordingly.]

11. Update energy information on drawing A0.01 as requested in item 2 above.

As noted above re item 2.

12. Update door schedule on drawing A8.01 to relate every door to its type as shown on the same drawings page.

Revised door schedule sheet A8.01 is provided herewith and additional sheet A8.01a is provided for an expanded schedule schedule.]

13. Provide bottom of the door/sill installation detail for patio/balcony sliding door. Also provide its head and jamb installation details if different from those shown for window on drawing A9.01. Otherwise clarify on the same drawing that the said details are the same for installation of both, namely windows and patio/balcony doors.

[Head details are similar, additional sill detail for slider.]

14. Indicate on architectural drawings that the followings shall be restrained to ensure safety from overhead falling hazards as required for N3 upgrade level;

Notes have been added, see A0.01 and A4.01.

- a. All interior partition walls, ceiling supporting frames, T-bar assemblies, ceiling gypsum wall boards, all overhead mechanical equipment and services, overhead electrical equipment and services.

Notes have been added, see A0.01 and A4.01.

- b. All falling hazards from cladding, veneer, parapets, canopies and ornaments over exit and extended to 5 m on either side of exit.

Notes have been added, see A0.01 and A4.01.

15. Indicate on architectural drawings that non-structural elements and falling hazards shall be restrained to resist lateral loads due to earthquakes within the project area as required for S2 upgrade level.

Notes have been added, see A0.01 and A4.01.

16. New sliding doors and windows shall comply with Part 5 of VBBL and energy efficiency requirements of VBBL 10.2.2.7 having maximum thermal transmittance of 1.4 W/(m²K). Indicate it as a statement on architectural drawings. Please also review and clarify the information on drawing A8.01 as single glazing may not provide the required USI values for window and patio doors.

All dwelling unit windows and sliding doors are at a minimum double glazed, and shall provide thermal transmittance of 1.4 W/(m²K) a statement has been added to A8.01 and A801a.

17. Double check information on drawings and correct where required, e.g. first floor kitchens are being identified as new bath.

Labels on drawing sheets have been corrected, new sheets are provided herewith.

September 11, 2019

Page 4

Mechanical, plumbing, and electrical review

18. Update the electrical drawings for the 3rd floor fire detection and alarm system.
A new, revised electrical drawing set has been provided a few days ago.
19. Show building emergency lighting system complies with current VBBL.
A new, revised electrical drawing set has been provided a few days ago
20. Some information on the electrical floor plans is not readable. Please look into modifying the electrical drawings scale or their legend/font size and submit 3 new sets of revised drawings.
A new, revised electrical drawing set has been provided a few days ago
21. Exit signs shall be green running man per the City of Vancouver Bulletin 2015-006-BU.
A new, revised electrical drawing set has been provided a few days ago
22. Provide mechanical drawings for kitchen and bathroom fan exhausts, venting of dryers in the laundry rooms (if there is any), and venting of dryers in the residential suites. Please also change name of the laundry rooms on floor plans, if it is not being used as a laundry room anymore.
Kitchen and bathroom fan exhausts will replace existing, using existing ducts. Dryers will be condensing ventless models. Common Laundry rooms are to be changed as now noted on plan, there will be no common laundry facility, the old laundry space will be used for storage.

Regards,
- Rob McLean

Place it
as note
on to days



STUART HOWARD
ARCHITECTS INC

MEMBERS AIBC - RAIC - AIA

Stuart Howard, Architect AIBC FRAIC AIA Principal

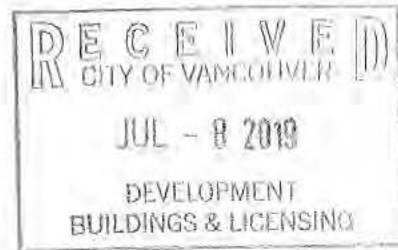
W. Neil Robertson, Architect AIBC MRAIC Principal

TRANSMITTAL

To: Hamid Mahpour
Project Coordinator
Building Review Branch
Development, Buildings & Licensing
The City of Vancouver

(604)871-6024

From: Rob McLean
Stuart Howard Architects Inc
405-375 West 5th Ave.
Vancouver, BC
604.688.5585 ext. 229
rmclean@stuarthoward.com



Date: July 05, 2019
Delivery Method: By Hand

Project Number/ Name: 219.02
Address 95 East 14th Avenue
Permit Application Number BP-2019-01801

Documents Included:

- Letter confirming Mechanical engineer includes plumbing work started for the previous BP under this application
- Letter confirming the Architect (CRP) includes the work started for the previous BP under this application
- 3 wet sealed sets of the plumbing drawings as submitted under the 2018 BP (5 wet sealed sets could be provided)
- schedule B signed and sealed by mechanical engineer
- schedule B signed and sealed by electrical engineer
- 3 wet sealed sets of the electrical drawings (5 wet sealed sets could be provided)

Sincerely,
Rob McLean

405 - 375 WEST FIFTH AVENUE
Telephone: 604 . 688 . 5585

VANCOUVER , B.C. • V5Y 1J6
Facsimile: 604 . 688 . 7486



Community Services Group
Licenses and Inspections

Certificate of Inspection

Building Permit (BP) Inspection | Enforcement

Inspection Number: BP-2018-05371-01

Inspection Date: 18 Dec 2018

Inspector: Name: Ed Loney, District Building Inspector
Office Hours: 8:30AM - 9:30AM
Phone: (604) 873-7074

Address: 95 E 14TH AVENUE
Vancouver, BC V5T 2M4

Contractor:

Inspection Result: Not Safe

Comments:



Community Services Group
Licenses and Inspections

Certificate of Inspection

Building Permit (BP) Inspection | Enforcement

Inspection Number: BP-2018-05371-02

Inspection Date: 11 Mar 2019

Inspector: Name: Ed Loney, District Building Inspector
Office Hours: 8:30AM - 9:30AM
Phone: (604) 873-7074

Address: 95 E 14TH AVENUE
Vancouver, BC V5T 2M4

Contractor:

Inspection Result: Passed

Comments: suites 302, 205 & 105 are unoccupied due to activities related to construction. unclear if the suites were vacant prior to re-pipe beginning.