GREEN BUILDING CERTIFICATION

UBC has a history of pursuing strong operational sustainability goals and targets and has developed numerous plans and policies that reflect the University's vision and guide its sustainability activities.

The addition to the Totem Park neighbourhood represents an opportunity for UBC to further explore aspects of economic, social and environmental sustainability in the context of a new student residence. The sustainable strategies being considered for this project focus on promoting resident comfort, health and well-being.

These strategies include a holistic approach to energy management through:

- Strategically balancing daylighting needs with glazing performance by establishing a window to wall ratio of 30%; developing a high performance building envelope with targeted effective thermal resistive values of R30 for roof assemblies, R20 for wall assemblies, and R2 for window assemblies;
- Establishing an aggressive airtightness target of 1.5 air changes per hour at 50 Pa;
- Supplementing natural light sources with energy efficient LED lighting in all spaces;
- Designing to achieve a maximum Energy Use Intensity of 80kWh/sm/yr;
- Providing a constant supply of fresh air to all residence rooms and common spaces;
- Specifying low-VOC materials and finishes that do not negatively impact air quality;
- Recovering heat from the building's exhaust system;
- Connecting to the campus' low-carbon District Energy System for heating domestic hot water and ventilation air. Capacity of the DES system to meet the energy requirements of the new residence has been confirmed by UBC.

Additional sustainable strategies for the project are framed around:

- Optimizing the life-cycle impact of the appliances, fixtures, materials and finishes selected for the residence on the day-to-day operations of the facility. The products specified for the project are expected to be both reliable and durable.
- Minimizing potable water consumption by specifying low-flow fixtures and planting droughttolerable native vegetation
- Reducing storm water flows by 50% from the previous site condition for a 1 in 10 year, 24 hour event.
- Minimizing the impact of construction activities by: minimizing the extent of the impacted site area, minimizing waste by maximizing the opportunities for prefabrication; and diverting the majority of solid construction waste to local recycling facilities.

The mandated performance target for project is LEED Gold Certification. The Project Team has adopted the LEED for Homes Multi-Family Midrise v2010 as its benchmarking tool. LEED for Homes represents a consensus standard for green homebuilding in the US. In addition to the credit categories found in most LEED rating systems, LEED for Homes also recognizes the placement of projects in a socially and environmentally responsible ways in relation to the larger community, an objective that is consistent with the goals of the Campus Plan. The LEED for Homes Multi-Family Midrise is described in detail in the following pages.



UBC Totem Park Residence Infill Phase II Narrative: LEED for Home Mid-rise

The LEED for Homes Mid-rise rating system is a certification program focused on promoting healthy and sustainable homes. It is designed for developments between 3 to 12 storeys that are at least 50% residential, and encourages a hands-on approach to green building among the design team, builder, and verification team.

In order to achieve LEED Mid-rise certification, projects must earn a minimum number of credits across the following eight different sustainability categories: Innovation & Design, Location & Linkages, Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, Indoor Environmental Quality, and Awareness & Education. Testing and verification of fundamental mechanical and ventilation systems are also required as part of the LEED Midrise pre-requisites.

Project teams work with a LEED Design Consultant to incorporate green building features and practices, establish the targeted certification level and credits, and to document these credits. The design and construction team also work closely with the LEED Midrise Green Rater/Provider, who acts on behalf of the USGBC, to verify that prerequisites and credit intents are met through site inspections and testing.

LEED for Home Mid-rise is an appropriate green building rating system to use for the Totem Park Residence Infill Phase II project. The system was designed specifically for residential buildings (as opposed to commercial) and therefore includes strategies/credits tailored to residential design and construction. In addition, the system promotes an integrated approach to design and construction, including on-site verification, which increases quality control and is consistent with UBCs sustainability process. Further more, the inclusion of LEED Midrise Green Rater/Provider helps to streamline the process by providing access to the USGBC to provide prompt responses to any questions that arise. This helps to ensure a smooth certification process.

The preliminary checklist attached indicates we are targeting 70.5 points, where 65 are required to earn LEED® Gold Certification. We have identified additional points that potentially can be achieved or used as a substitute if one or more strategies are deemed unobtainable. It should be noted that the LEED® for Homes – Multifamily Mid-Rise simple checklist is a working document and is subject to change. This preliminary checklist will form the basis of discussion with UBC and the design team during our Sustainability Workshop.

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UBC Totem Park Infill Phase 2

2525 West Mall, Vancouver, BC

PROJECT CODE 1537 SCALE

STATUS
DD
DATE
September 25, 2015

Green Building Certification 1

янет A0.00e Checklist issued by Kane Consulting Issued on: 2015-09-24 Checklist issued by Kane Consulting Issued on: 2015-09-24



LEED for Homes Mid-rise Project Checklist

for Homes	Project Name:	Totem Infill Phase 2		
Project Point Total		Certification Thresholds		
Targeted: 70.5	Maybe: 33	Certified: 35	Gold:	65
Certification Level		Silver: 50	Platinum:	80
Targeted: Gold	Points needed: 65			

Innovation and Design Process (ID)		(No Minimum Points Required)		Max	Y/Pts	?	No
1. Integrated Project Planning	1.1 Preliminary Rating	5		Prereq	Υ		
	1.2 Energy Expertise for MID-RISE			Prereq	Υ		
	1.3 Professional Credentialed with Respect to LEED for Homes			1	1	0	0
	1.4 Design Charrette		1	1	0	0	
	1.5 Building Orientation for Solar Design		1	0	0	1	
	1.6 Trades Training fo	r MID-RISE		1	1	0	0
2. Durability Management	2.1 Durability Plannin	g		Prereq	Υ		
Process	2.2 Durability Manage	ement		Prereq	Υ		
	2.3 Third-Party Durab	ility Management Verification		3	3	0	0
3. Innovative or Regional	3.1 Innovation #1 Green Cleaning			1	0	1	0
Design	3.2 Innovation #2	Enter innovation strategy	_	1	0	0	1
	3.3 Innovation #3	Enter innovation strategy		1	0	0	1
	3.4 Innovation #4	Enter innovation strategy	_	1	0	0	1
		Sub-Total for	ID Category:		6	1	4
Location and Linkages (LL)		(No Minimum Points Required)	OR	Max	Y/Pts	?	No
L. LEED ND	,	rhood Development	LL2-6	10	0	0	10
2. Site Selection	2 Site Selection			2	2	0	0
3. Preferred Locations	3.1 Edge Developmen	*		1	1	0	0
5. Freieneu Locations	3.2 Infill	it.	LL3.1	2	0	1	1
		elopment for MID-RISE	LL3.1	1	0	0	1
1 Infractive at the	A CONTRACTOR OF THE CONTRACTOR	and y y mouth • 1.5 expect thoughts — in a supplied to the property of the pr		155	11470	200	2000
1. Infrastructure	4 Existing Infrastruc			1	1	0	0
5. Community		Resources for MID-RISE		1	0	1	0
Resources/Transit		nity Resources for MID-RISE	LL 5.1, 5.3	2	0	0	2
	5.3 Outstanding Community Resources for MID-RISE		LL 5.1, 5.2	3	0	0	3
THE CONTRACTOR WINDS TO DESCRIPT TO SERVER THE TOTAL PROPERTY OF THE PROPERTY				6940	615	1921	124
5. Access to Open Space	6 Access to Open Sp	1	II Category:	10	1 5	0	17
· ·	· · ·	Sub-Total for	100 mily to the Control of the Contr	10	5	2	17
Sustainable Sites (SS)		Sub-Total for (Minimum of 5 SS Points Required)	LL Category: OR	10 Max	Y/Pts		
· ·	1.1 Erosion Controls D	Sub-Total for (Minimum of 5 SS Points Required) During Construction	100 mily to the Control of the Contr	10 Max Prereq	Y/Pts Y	?	17 No
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Sustainable Sites (SS) L. Site Stewardship	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona	Sub-Total for (Minimum of 5 SS Points Required) During Construction ed Area of Site for MID-RISE Section Design al Turf for MID-RISE	OR SS 2.5 SS 2.5	Max Prereq 1 Prereq 1 2	Y/Pts Y 1 Y 1 2	2 ? 0 0 0 0	17 No 0 0 0
Sustainable Sites (SS) L. Site Stewardship	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant	Sub-Total for [Minimum of 5 SS Points Required] During Construction ed Area of Site for MID-RISE Seesign al Turf for MID-RISE Plants for MID-RISE	OR SS 2.5 SS 2.5 SS 2.5	Max Prereq 1 Prereq 1 2 1	Y/Pts Y 1 Y 1 2 1	2 ? 0 0 0 0	17 No 0 0 0 0
Sustainable Sites (SS) L. Site Stewardship Landscaping	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr	Sub-Total for [Minimum of 5 SS Points Required] During Construction ed Area of Site for MID-RISE Sesign al Turf for MID-RISE Plants for MID-RISE rigation Demand by at Least 20% for MID	OR SS 2.5 SS 2.5 SS 2.5	Max Prereq 1 Prereq 1 2 1 3	Y/Pts Y 1 Y 1 2 1 0	2 ? 0 0 0 0	17 No 0 0 0 0 3
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Sustainable Sites (SS) L. Site Stewardship Landscaping Local Heat Island Effects	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat	Sub-Total for [Minimum of 5 SS Points Required] During Construction ed Area of Site for MID-RISE Design al Turf for MID-RISE Plants for MID-RISE rigation Demand by at Least 20% for MID Island Effects for MID-RISE	OR SS 2.5 SS 2.5 SS 2.5	Max Prereq 1 Prereq 1 2 1 3	Y/Pts Y 1 Y 1 2 1 0	2 ? 0 0 0 0	17 No 0 0 0 0 3
Sustainable Sites (SS) L. Site Stewardship Landscaping	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat 4.1 Permeable Lot for	Sub-Total for (Minimum of 5 SS Points Required) Ouring Construction ed Area of Site for MID-RISE Substitution al Turf for MID-RISE Plants Figation Demand by at Least 20% for MID Island Effects for MID-RISE Plants Figation Demand By at Least 20% for MID Island Effects for MID-RISE PMID-RISE	OR SS 2.5 SS 2.5 SS 2.5	Max Prereq 1 Prereq 1 2 1 3 1 1	Y/Pts Y 1 Y 1 2 1 0 1 0	2 ? 0 0 0 0 0 1 0 2	17 No 0 0 0 0 3 0 0
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Sustainable Sites (SS) L. Site Stewardship Landscaping Local Heat Island Effects Surface Water Management Nontoxic Pest Control	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat 4.1 Permeable Lot for 4.2 Permanent Erosio 4.3 Stormwater Quali 5 Pest Control Alter	Sub-Total for [Minimum of 5 SS Points Required] During Construction ed Area of Site for MID-RISE Subsection al Turf for MID-RISE Plants for MID-RISE rigation Demand by at Least 20% for MID Island Effects for MID-RISE Island Effects for MID-RISE Island Effects for MID-RISE Island Controls Ity Control for MID-RISE Inatives Informatives Information MID-RISE Infor	OR SS 2.5 SS 2.5 SS 2.5	10 Max Prereq 1 Prereq 1 2 1 3 1 1 2 1 2 2	Y/Pts Y 1 Y 1 2 1 0 0 1 0 1 1 1 1 1 1 1 1	2 ? 0 0 0 0 0 1 0 2 1 2 0.5	17 No 0 0 0 0 0 0 0 0
Sustainable Sites (SS) L. Site Stewardship Landscaping Local Heat Island Effects Surface Water Management Nontoxic Pest Control	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat 4.1 Permeable Lot for 4.2 Permanent Erosio 4.3 Stormwater Quali 5 Pest Control Alter 6.1 Moderate Density	Minimum of 5 SS Points Required) During Construction ed Area of Site for MID-RISE Design al Turf for MID-RISE Plants for MID-RISE Digation Demand by at Least 20% for MID-RISE Elsland Effects for MID-RISE Elsland Effects for MID-RISE Elsland Controls Elsty Control for MID-RISE Enatives For MID-RISE Enatives For MID-RISE MID-RISE MID-RISE	SS 2.5 SS 2.5 SS 2.5 -RISE	10 Max Prereq 1 Prereq 1 2 1 3 1 1 2 1 2 2 2	Y/Pts Y 1 Y 1 2 1 0 0 1 0 1 0 1.5	2 ? 0 0 0 0 0 1 0 2 1 2 0.5	17 No 0 0 0 0 0 0 0 0 0
Sustainable Sites (SS) L. Site Stewardship Landscaping Local Heat Island Effects Surface Water Management Nontoxic Pest Control	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat 4.1 Permeable Lot for 4.2 Permanent Erosio 4.3 Stormwater Quali 5 Pest Control Alter 6.1 Moderate Density 6.2 High Density for N	Minimum of 5 SS Points Required) Ouring Construction ed Area of Site for MID-RISE Design al Turf for MID-RISE Plants for MID-RISE rigation Demand by at Least 20% for MID Island Effects for MID-RISE Island Effects for MID-RISE The MID-RISE The Controls The MID-RISE	SS 2.5 SS 2.5 SS 2.5 -RISE	10 Max Prereq 1 Prereq 1 2 1 3 1 1 2 1 2 2 3	Y/Pts Y 1 Y 1 2 1 0 0 1 0 1 0 0 1.5 0	2 ? 0 0 0 0 0 1 0 2 1 2 0.5 0	17 No 0 0 0 0 0 0 0 0 0 0 2 3
Sustainable Sites (SS) L. Site Stewardship Landscaping Local Heat Island Effects Surface Water Management Nontoxic Pest Control Compact Development	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat 4.1 Permeable Lot for 4.2 Permanent Erosio 4.3 Stormwater Quali 5 Pest Control Alter 6.1 Moderate Density 6.2 High Density for N 6.3 Very High Density 7.1 Public Transit for N	Minimum of 5 SS Points Required) During Construction ed Area of Site for MID-RISE Design al Turf for MID-RISE Plants for MID-RISE rigation Demand by at Least 20% for MID Island Effects for MID-RISE Island Effects for MID-RISE The MID-RISE In Controls The Control of MID-RISE The MID-RISE	SS 2.5 SS 2.5 SS 2.5 -RISE	10 Max Prereq 1 Prereq 1 2 1 3 1 1 2 1 2 2 2 2 3 4	Y/Pts Y 1 Y 1 2 1 0 0 1 0 1 0 0 1.5 0	2 ? 0 0 0 0 0 1 0 2 1 2 0.5 0 0	17 No 0 0 0 0 0 0 0 0 0 0 2 3 0
Sustainable Sites (SS) L. Site Stewardship Landscaping Local Heat Island Effects Surface Water Management Nontoxic Pest Control Compact Development	1.1 Erosion Controls D 1.2 Minimize Disturbe 2.1 No Invasive Plants 2.2 Basic Landscape D 2.3 Limit Conventiona 2.4 Drought Tolerant 2.5 Reduce Overall Irr 3.1 Reduce Site Heat 3.2 Reduce Roof Heat 4.1 Permeable Lot for 4.2 Permanent Erosio 4.3 Stormwater Quali 5 Pest Control Alter 6.1 Moderate Density 6.2 High Density for N 6.3 Very High Density 7.1 Public Transit for N 7.2 Bicycle Storage fo	Minimum of 5 SS Points Required) During Construction ed Area of Site for MID-RISE Design al Turf for MID-RISE Plants for MID-RISE rigation Demand by at Least 20% for MID Island Effects for MID-RISE Island Effects for MID-RISE The MID-RISE In Controls The Control of MID-RISE The MID-RISE	SS 2.5 SS 2.5 SS 2.5 -RISE	10 Max Prereq 1 Prereq 1 2 1 3 1 1 2 2 2 2 3 4 2	Y/Pts Y 1 Y 1 2 1 0 0 1 0 1.5 0 4 1	2 ? 0 0 0 0 0 1 0 2 1 2 0.5 0 0	17 No 0 0 0 0 0 0 0 0 0 0 2 3 0

1	Water Efficiency (WE)	(Minimum of 3 WE Points Required)	OR	Max	Y/Pts	5	No
	Water Reuse	1.1 Water Reuse for MID-RISE		5	0	0	5
2.	Irrigation System	2.1 High Efficiency Irrigation System for MID-RISE	WE 2.2	2	2	0	0
		2.2 Reduce Overall Irrigation Demand by at least 45% for MID)-RISE	2	0	0	2
3.	Indoor Water Use	3.1 High-Efficiency Fixtures and Fittings		3	1	0	2
		3.2 Very High Efficiency Fixtures and Fittings		6	4	0	2
		3.3 Water Efficient Applicances for MID-RISE		2	2	0	0
			WE Category:	15	9	0	11
_						-	
	Energy and Atmosphere (EA)	(Minimum of 0 EA Points Required)	OR	Max	Y/Pts	7	No
1.	Optimize Energy	1.1 Minimum Energy Performance for MID-RISE		Prereq	Υ		
	Performance	1.2 Testing and Verification for MID-RISE		Prereq	Υ	-	
V-32-0	00.507 - 1	1.3 Optimize Energy Performance for MID-RISE		34	10	9	15
7.	Water Heating	7.1 Efficient Hot Water Distribution		2	0	0	2
		7.2 Pipe Insulation		1	0	1	0
11.	Residential Refrigerant	11.1 Refrigerant Charge Test		Prereq	Υ		-0.00
	Management	11.2 Appropriate HVAC Refrigerants	3397 838.511	1	1	0	0
		Sub-Total for	r EA Category:	38	11	10	17
	Materials and Resources (MR)	(Minimum of 2 MR Points Required)	OR	Max	Y/Pts	?	No
25	Material-Efficient Framing	1.1 Framing Order Waste Factor Limit		Prereq	Y	120	and the
		1.2 Detailed Framing Documents	MR 1.5	1	0	1	0
		1.3 Detailed Cut List and Lumber Order	MR 1.5	1	0	0	1
		1.4 Framing Efficiencies	MR 1.5	3	1	1	1
		1.5 Off-site Fabrication		4	0	4	0
j	Environmentally Preferable	2.1 FSC Certified Tropical Wood		Prereg	Υ	155	, v
	Products	2.2 Environmentally Preferable Products		8	6.5	0	1.5
)	Waste Management	3.1 Construction Waste Management Planning		Prereq	Υ Υ		1.5
) .	waste management	3.2 Construction Waste Management Flamming 3.2 Construction Waste Reduction		3	2.5	0.5	0
		Charles on the first transfer out to the content of	MR Category:		10	6.5	3.5
		340-10141301	win category.	10	10	0.5	3.3
	Indoor Environmental Quality (EQ)	(Minimum of 6 EQ Points Required)	OR	Max	Y/Pts	?	No
2,	Combustion Venting	2 Basic Combustion Venting Measures		Prereq	Υ		
3.	Moisture Control	3 Moisture Load Control		1	0	1	0
١.	Outdoor Air Ventilation	4.1 Basic Outdoor Air Ventilation for MID-RISE		Prereq	Υ		
					37.0		
		4.2 Enhanced Outdoor Air Ventilation for MID-RISE		2	2	0	0
					17.0	0	0
	Local Exhaust	4.2 Enhanced Outdoor Air Ventilation for MID-RISE		2	2	27.5.5.5	20.00
ō.		4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE		2 1	2	27.5.5.5	20.00
		4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust		2 1	2	0	0
).).	Local Exhaust	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 		2 1 Prereq 1 1	2 1 Y	0	0
).).	Local Exhaust Distribution of Space	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 		2 1 Prereq 1	2 1 Y 1	0 0 0	0 0
).).	Local Exhaust	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 		2 1 Prereq 1 1 Prereq 1	2 1 Y 1 1 Y	0	0
	Local Exhaust Distribution of Space Heating and Cooling	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 		2 1 Prereq 1 1 Prereq 1 2	2 1 Y 1 1 Y 1 2	0 0 0	0 0 0
	Local Exhaust Distribution of Space	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 	EO 7.3	2 1 Prereq 1 1 Prereq 1 2 Prereq	2 1 Y 1 1 Y 1 2 Y	0 0 0 0 0	0 0 0
	Local Exhaust Distribution of Space Heating and Cooling	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 	EQ 7.3	2 1 Prereq 1 1 Prereq 1 2	2 1 Y 1 1 Y 1 2	0 0 0	0 0 0
7.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 	EQ 7.3	2 1 Prereq 1 1 2 Prereq 1 2	2 1 Y 1 1 Y 1 2 Y	0 0 0 0 0	0 0 0 0 0
7.	Local Exhaust Distribution of Space Heating and Cooling	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 	EQ 7.3	2 1 Prereq 1 1 Prereq 1 2 Prereq 1 2	2 1 Y 1 1 Y 1 2 Y 0 0	0 0 0 0 0	0 0 0 0 0
7.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 	EQ 7.3	2 1 Prereq 1 1 2 Prereq 1 2 1 2	2 1 Y 1 1 Y 1 2 Y	0 0 0 0 0 0 2	0 0 0 0 0
7.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 	EQ 7.3	2 1 Prereq 1 1 2 Prereq 1 2 1 2	2 1 Y 1 1 Y 1 2 Y 0 0 1	0 0 0 0 0	0 0 0 0 0
7.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 	EQ 7.3	Prereq 1 2 Prereq 1 2 Prereq 1 2 Prereq 1 2 Prereq 1 Prereq	2 1 Y 1 1 Y 1 2 Y 0 0 1 0	0 0 0 0 0 2 0 2	0 0 0 0 0
7. 3.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 	EQ 7.3	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y	0 0 0 0 0 0 2	0 0 0 0 0
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7. 3.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 	EQ 7.3	Prereq 1 2 1 Prereq 2	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y	0 0 0 0 0 0 2 0 2	0 0 0 0 0 0 0 0 0
7. 3.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 		2 1 Prereq 1 1 2 Prereq 1 2 1 2 1 Prereq 1 Prereq 2 3	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 Y	0 0 0 0 0 0 2 0 2 0	0 0 0 0 0 1 0 0 0
7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 10.4 Environmental Tobacco Smoke Reduction for MID-RISE 		2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1 2 1 Prereq 1 2 1 1 Prereq 1 1 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 Y 0 3 1	0 0 0 0 0 0 2 0 2	0 0 0 0 0 0 0 0 0
7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 		Prereq 1 2 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 2 3 1 Prereq 2 7 Prereq 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 Y	0 0 0 0 0 0 2 0 2 0	0 0 0 0 0 1 0 0 0
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7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units 		2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 Y	0 0 0 0 0 0 2 0 2 0	0 0 0 0 0 1 0 0 0
7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of	 4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units 	EQ10.3	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 Y 0 3 1 Y	0 0 0 0 0 0 2 0 2 0 0	0 0 0 0 0 0 0 0 0
9. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of Units	4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units	EQ10.3 EQ Category:	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1 Prereq 1 Prereq 1 Prereq 1 Prereq 2 3 1 Prereq 1 Max	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 3 1 Y 0 1 Y	0 0 0 0 0 0 2 0 2 0 0 0 0	0 0 0 0 0 0 0 0 0 0
7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of Units Awareness and Education (AE)	4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units Sub-Total for (Minimum of 0 AE Points Required) 1.1 Basic Operations Training	EQ10.3 EQ Category:	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 3 1 Y 0 1 Y	0 0 0 0 0 0 2 0 2 0 0 0 0	0 0 0 0 0 0 0 0 0 0
7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of Units Awareness and Education (AE) Education of the	4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units	EQ10.3 EQ Category:	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1 Prereq 1 Prereq 1 Prereq 1 Prereq 2 3 1 Prereq 1 Max	2 1 Y 1 1 1 Y 0 0 0 1 0 1 Y 0 Y 0 3 1 Y 0 1 4 Y	0 0 0 0 0 0 2 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
7. 3. 10.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of Units Awareness and Education (AE) Education of the Homeowner or Tenant	4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units Sub-Total for (Minimum of 0 AE Points Required) 1.1 Basic Operations Training 1.2 Enhanced Training	EQ10.3 EQ Category:	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1 Prereq 1 Prereq 2 3 1 Prereq 1 Prereq 1 Prereq 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 3 1 Y 0 3 1 Y	0 0 0 0 0 0 2 0 2 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0
.0.	Local Exhaust Distribution of Space Heating and Cooling Air Filtering Contaminant Control Radon Protection Garage Pollutant Protection ETS Control Compartmentalization of Units Awareness and Education (AE) Education of the	4.2 Enhanced Outdoor Air Ventilation for MID-RISE 4.3 Third-Party Performance Testing for MID-RISE 5.1 Basic Local Exhaust 5.2 Enhanced Local Exhaust 5.3 Third-Party Performance Testing 6.1 Room-by-Room Load Calculations 6.2 Return Air Flow / Room by Room Controls 6.3 Third-Party Performance Test / Multiple Zones 7.1 Good Filters 7.2 Better Filters 7.3 Best Filters 8.1 Indoor Contaminant Control during Construction 8.2 Indoor Contaminant Control for MID-RISE 8.3 Preoccupancy Flush 9.1 Radon-Resistant Construction in High-Risk Areas 9.2 Radon-Resistant Construction in Moderate-Risk-Areas 10.1 No HVAC in Garage for MID-RISE 10.2 Minimize Pollutants from Garage for MID-RISE 10.3 Detached Garage or No Garage for MID-RISE 11 Environmental Tobacco Smoke Reduction for MID-RISE 12.1 Compartmentalization for Units 12.2 Enhanced Compartmentalization of Units Sub-Total for (Minimum of 0 AE Points Required) 1.1 Basic Operations Training 1.2 Enhanced Training	EQ10.3 EQ Category:	2 1 Prereq 1 2 Prereq 1 2 Prereq 1 2 Prereq 1 2 1 Prereq 1 Prereq 1 Prereq 2 3 1 Prereq 1 Prereq 1 Prereq 1 Prereq 1	2 1 Y 1 1 Y 1 2 Y 0 0 1 0 1 Y 0 Y 0 3 1 Y 0 3 1 Y	0 0 0 0 0 0 2 0 2 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0

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ISSUES+REVISIONS
NO DATE DESCRIPTION

2525 West Mall, Vancouver, BC

STATUS DD DATE September 25, 2015 PROJECT CODE 1537 SCALE

Green Building Certification 2

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