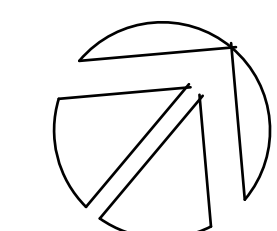
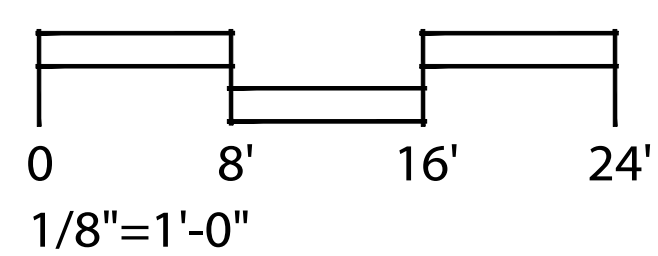
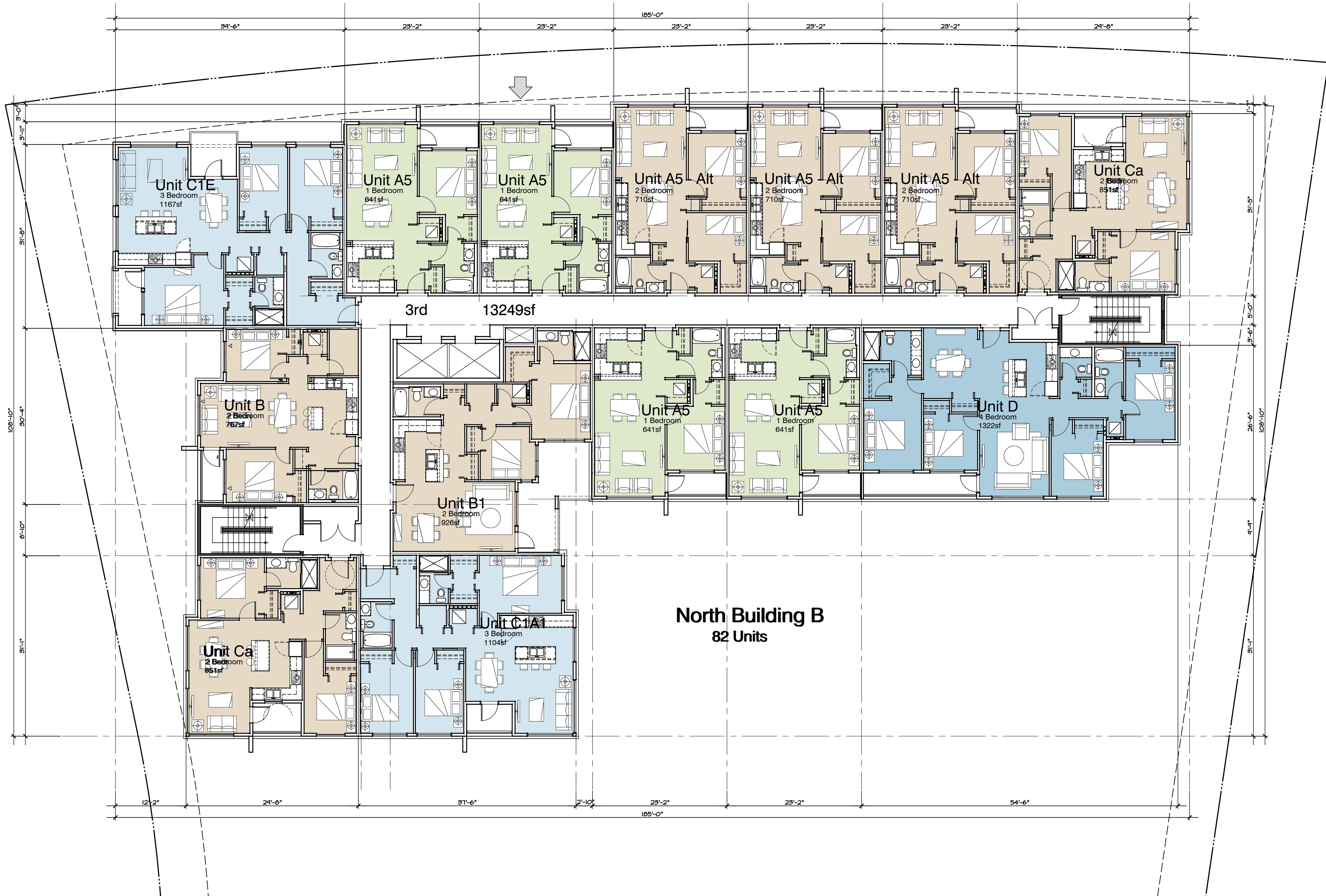


LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - 2ND FLOOR PLAN**  
 September 23, 2015  
 Sk-3.1

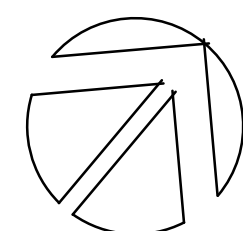
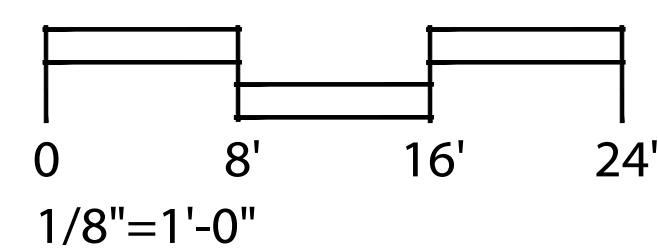
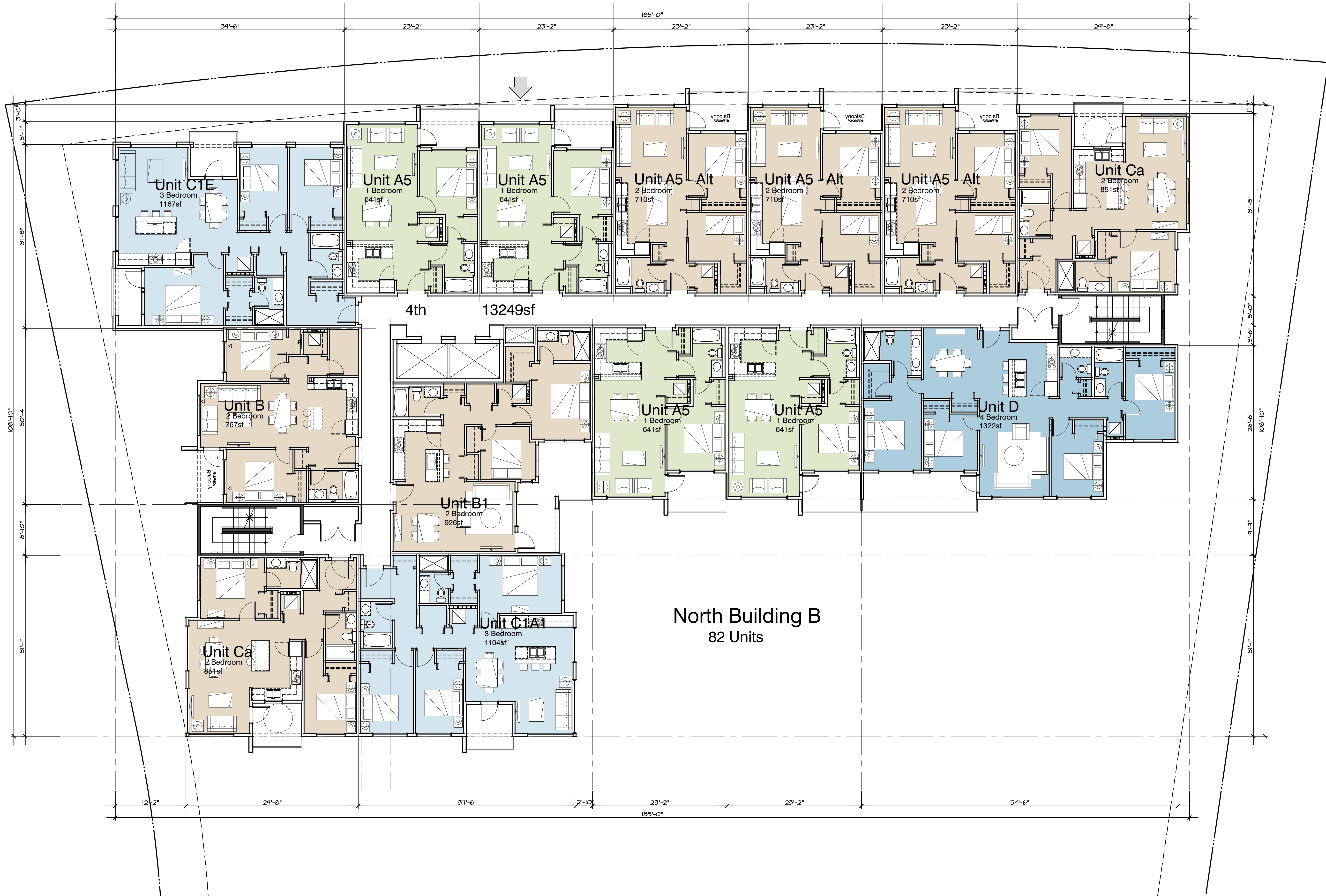


**UBC Properties Trust**



LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - 3RD FLOOR PLAN**  
 September 23, 2015 Sk-3.2

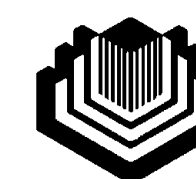




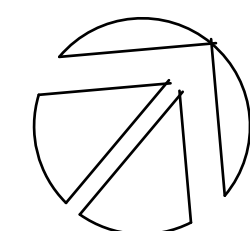
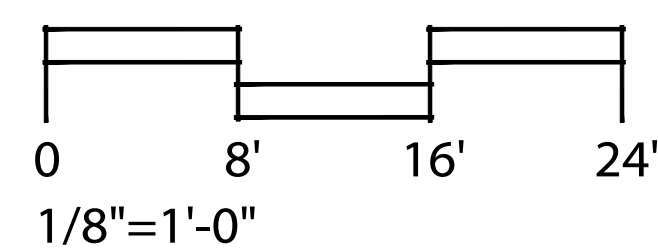
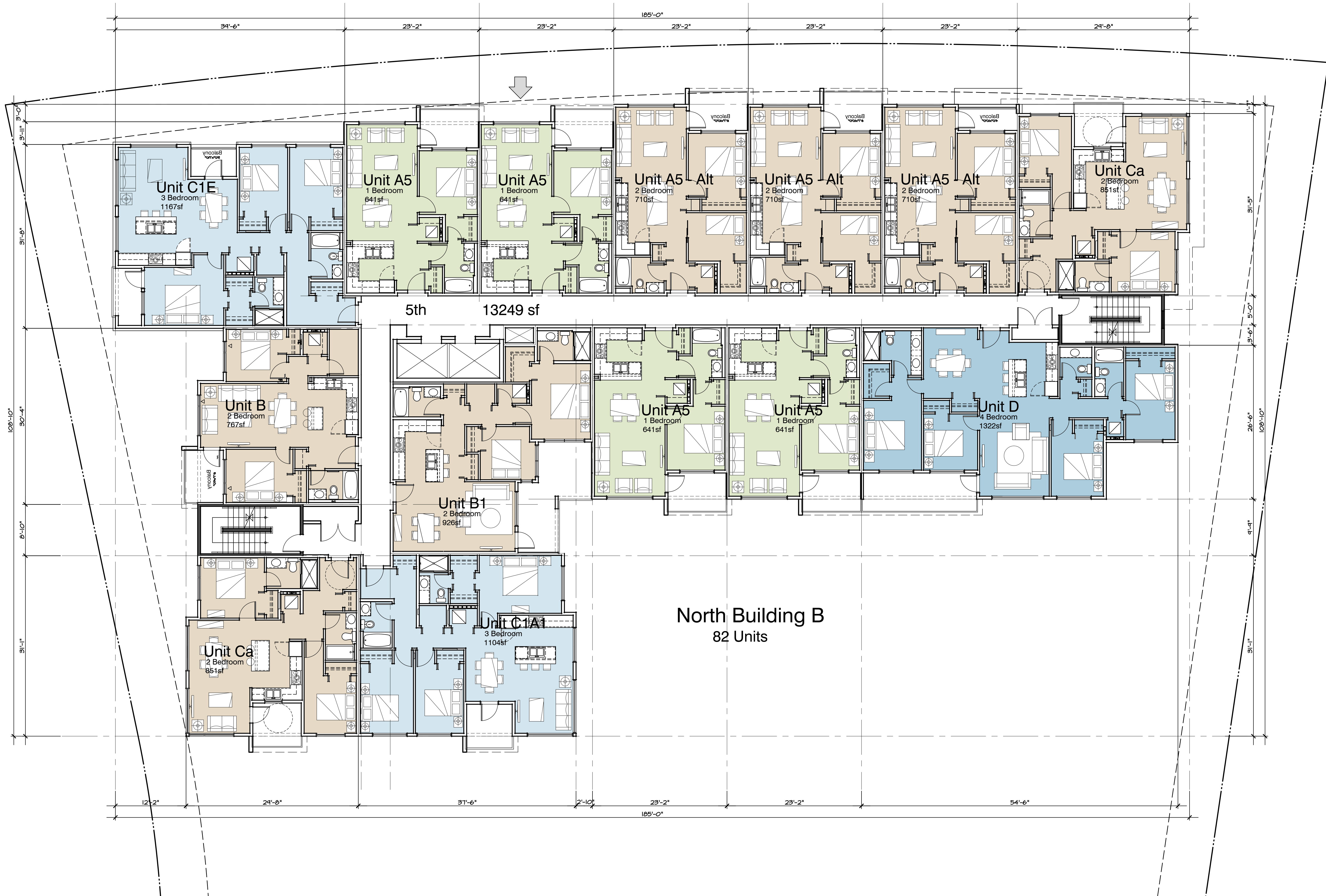
LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - 4TH FLOOR PLAN**

September 23, 2015

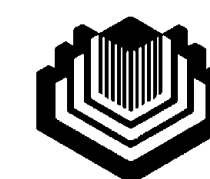
Sk-3.3



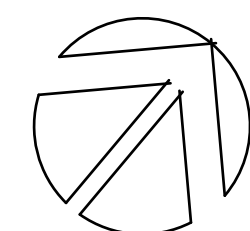
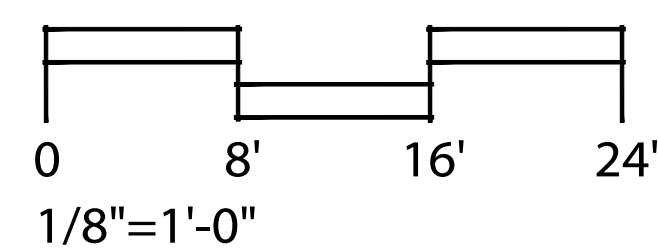
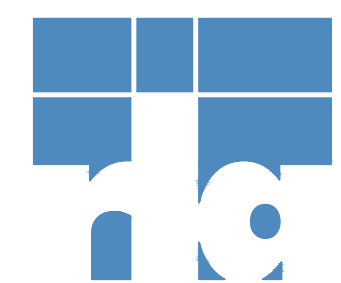
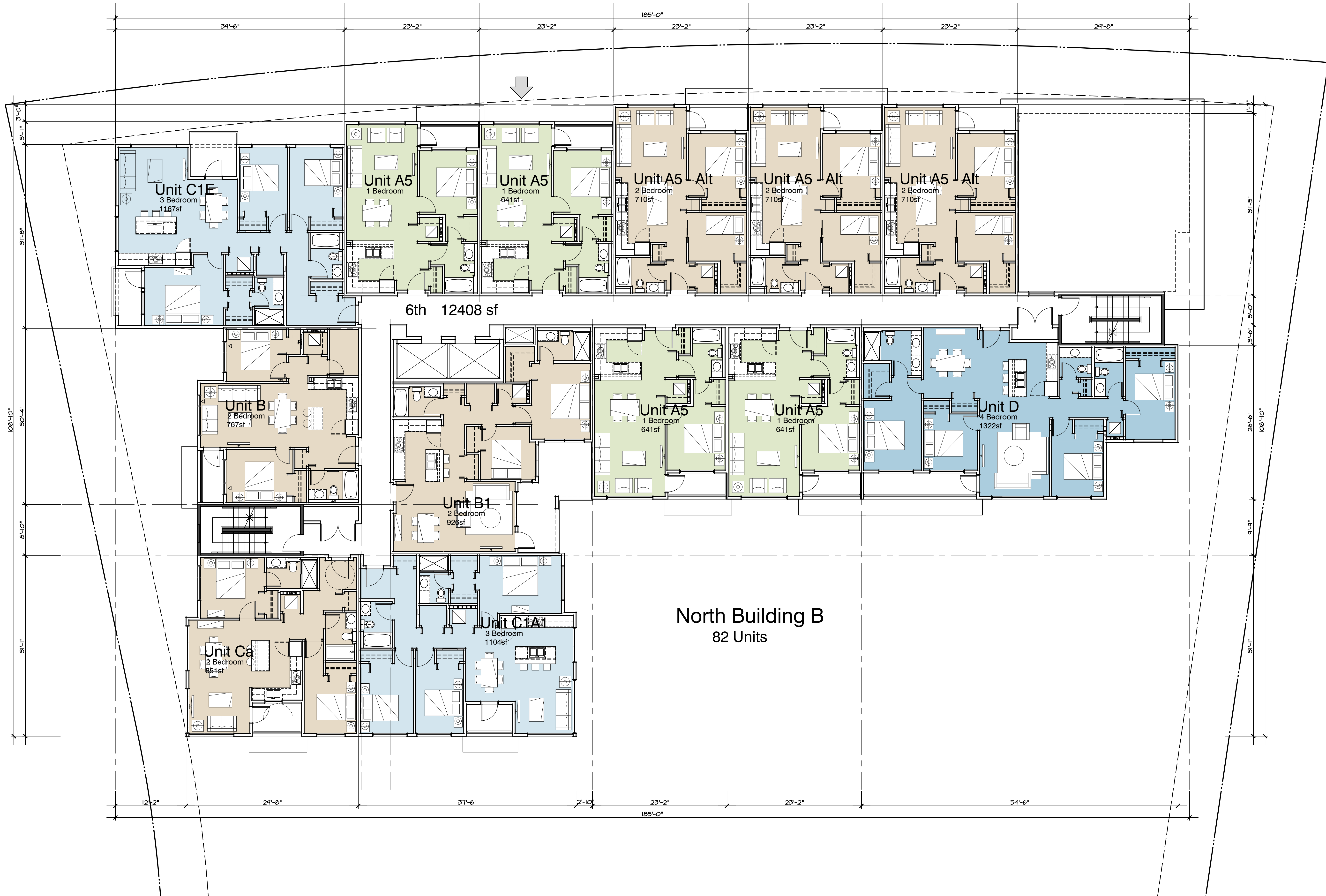
**UBC Properties Trust**



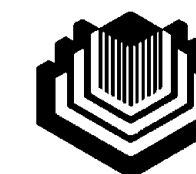
LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - 5TH FLOOR PLAN**  
 September 23, 2015 Sk-3.4



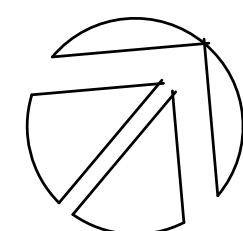
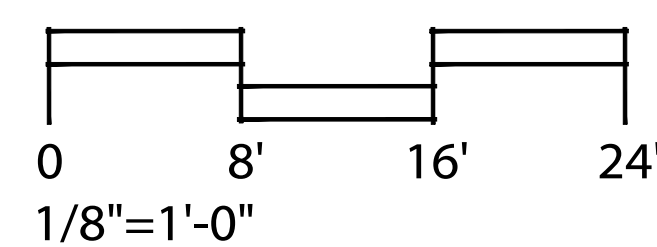
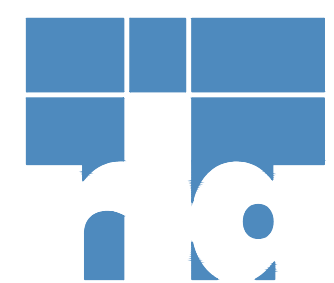
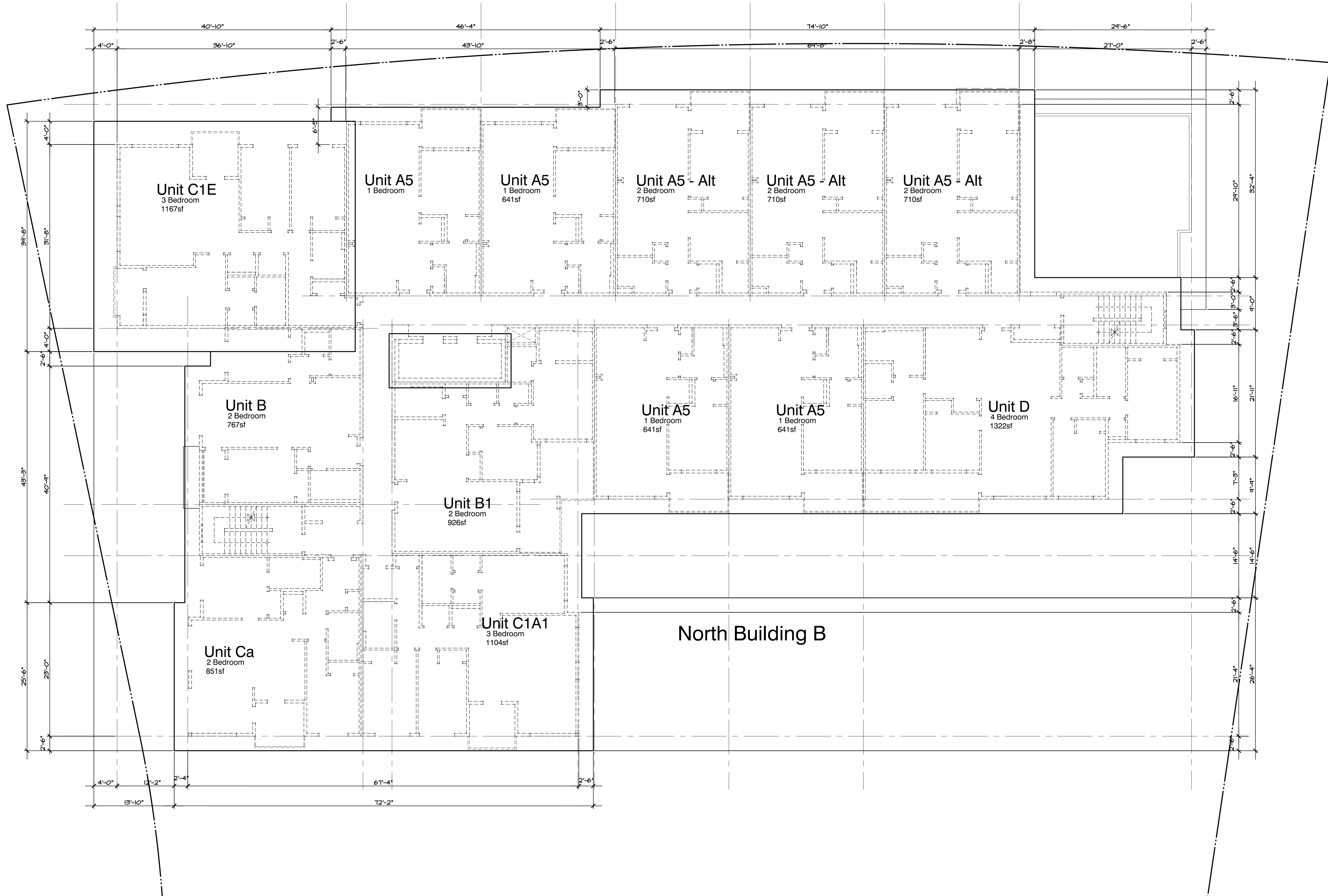
**UBC Properties Trust**



LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - 6TH FLOOR PLAN**  
 September 23, 2015 Sk-3.5



UBC Properties Trust

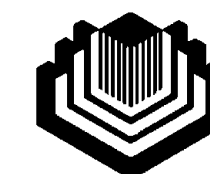


LOTS 27/29 ~ WESBROOK PLACE, UBC

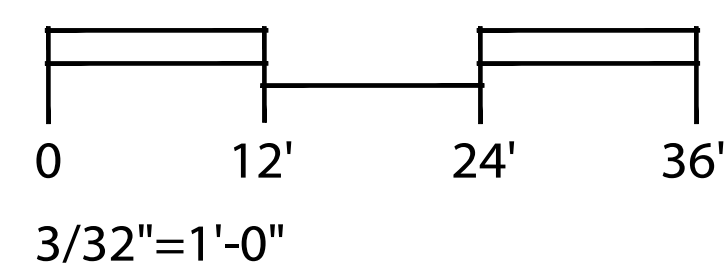
# BLDG B - ROOF PLAN

September 23, 2015

Sk-3.6

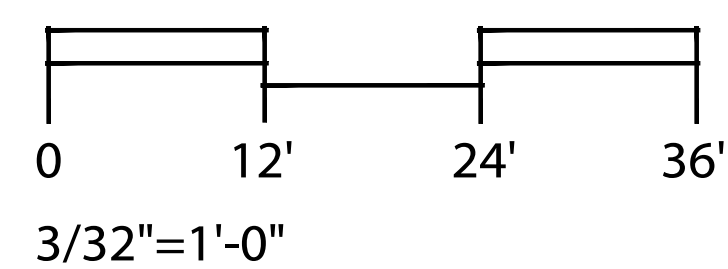


UBC Properties Trust



LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - ELEVATIONS**  
 September 23, 2015 Sk-3.4





LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - ELEVATIONS**  
 September 23, 2015 Sk-3.8



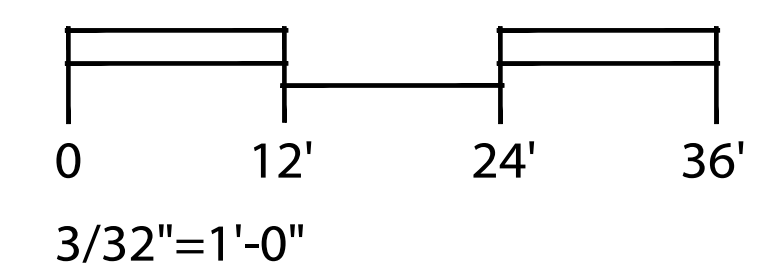




**SOUTH ELEVATION**  
North Building B



**EAST ELEVATION**  
North Building B



LOTS 27/29 ~ WESBROOK PLACE, UBC  
**BLDG B - ELEVATIONS**  
 September 23, 2015  
 Sk-3.9





Aluminum Frame Window  
Anodized Charcoal



Vinyl Frame Window  
Standard Beige



Fascias, Trims - HC-104, "Copley Gray"  
Benjamin Moore Paints



Flashings, Railings, Metal  
"Charcoal", Vicwest Metals



Brick Veneer - "Castle Grey",  
Mission, Mutual Materials



Gutters:  
pre-finished aluminum  
Gentek

Roof Fascias:  
2x6" on 2x12" Wood, Painted  
HC-104, "Copley Gray"  
Benjamin Moore Paints

Siding Panel colour #2:  
Fibre Cement Panels, Painted  
HC-84, "Elmira White"  
Benjamin Moore Paints

Typical Windows:  
Low-E, Double Glazing in Vinyl Frames,  
Colour: Beige

Concrete Coping:  
Precast Concrete,  
Architectural Sandblast Finish

Brick Veneer:  
Norman Brick Size, Mission,  
"Castle Grey"  
Mutual Materials Co.

Feature Windows:  
Low-E, Double Glazing in  
Aluminum Frames,  
Colour: Charcoal

Feature Guard Rails:  
Anodized Aluminum  
Colour: Charcoal

Canopy:  
Steel Edge Canopy,  
Colour: Charcoal



Roofing:  
SBS - 2 ply Roofing Membrane,  
Granulated Cap sheet  
Min. 2% slope

Soffit:  
1x6" T&G Wood Soffit,  
V-Groove profile, with 2" strip vents  
Stain, Natural Cedar Colour

Siding colour #1:  
Fibre Cement Siding, 3" Exposure, Painted  
HC-84, "Elmira White"  
Benjamin Moore Paints

Siding Panel colour #3:  
Fibre Cement Panels, c/w Aluminum Reveal, Painted  
HC-104, "Copley Gray"  
Benjamin Moore Paints

Window Trims  
Fibre Cement Trims,  
HC-104, "Copley Gray"  
Benjamin Moore Paints

Balcony Fascias:  
2x6" on 2x12" Wood, Solid Stain

"Eye Brow" Feature:  
Preformed Aluminum End Cap, Full Perimeter, Colour: Charcoal  
Outside Face: Fibre Cement Panels, Painted, as Adjacent Wall Surface  
Inside Faces: Horizontal T & G Wood, Stain, Natural Cedar Colour

Balcony Glazing:  
6mm Clear,  
White Ceramic Frit,  
Vitrum

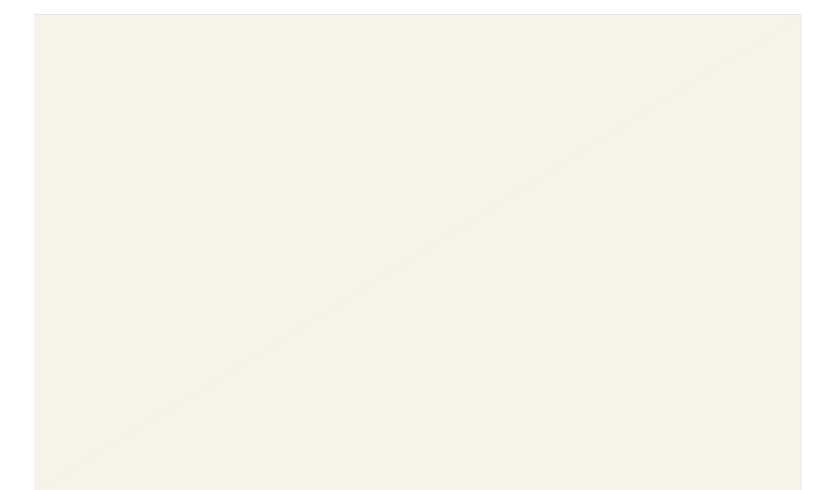
Balcony Guard Rails:  
Charcoal colour frames,  
2" min. - 6mm screened glass panels supported on 4 sides

Spandrel Glass  
"Chelsea Gray",  
Vitrum Industries Ltd.

Feature Windows:  
Double Glazing in Aluminum Frame Window Wall,  
Anodized Charcoal Colour



Wood Soffit  
Natural Cedar Colour



Siding Colour #1 & Panel Colour #2  
HC-84, "Elmira White",  
Benjamin Moore Paints



Siding Panel Colour #3 - HC-104, "Copley Gray"  
Benjamin Moore Paints



Spandrel Glass  
"Chelsea Gray", Vitrum Industries Ltd.



# LOTS 27/29 ~ WESBROOK PLACE, UBC

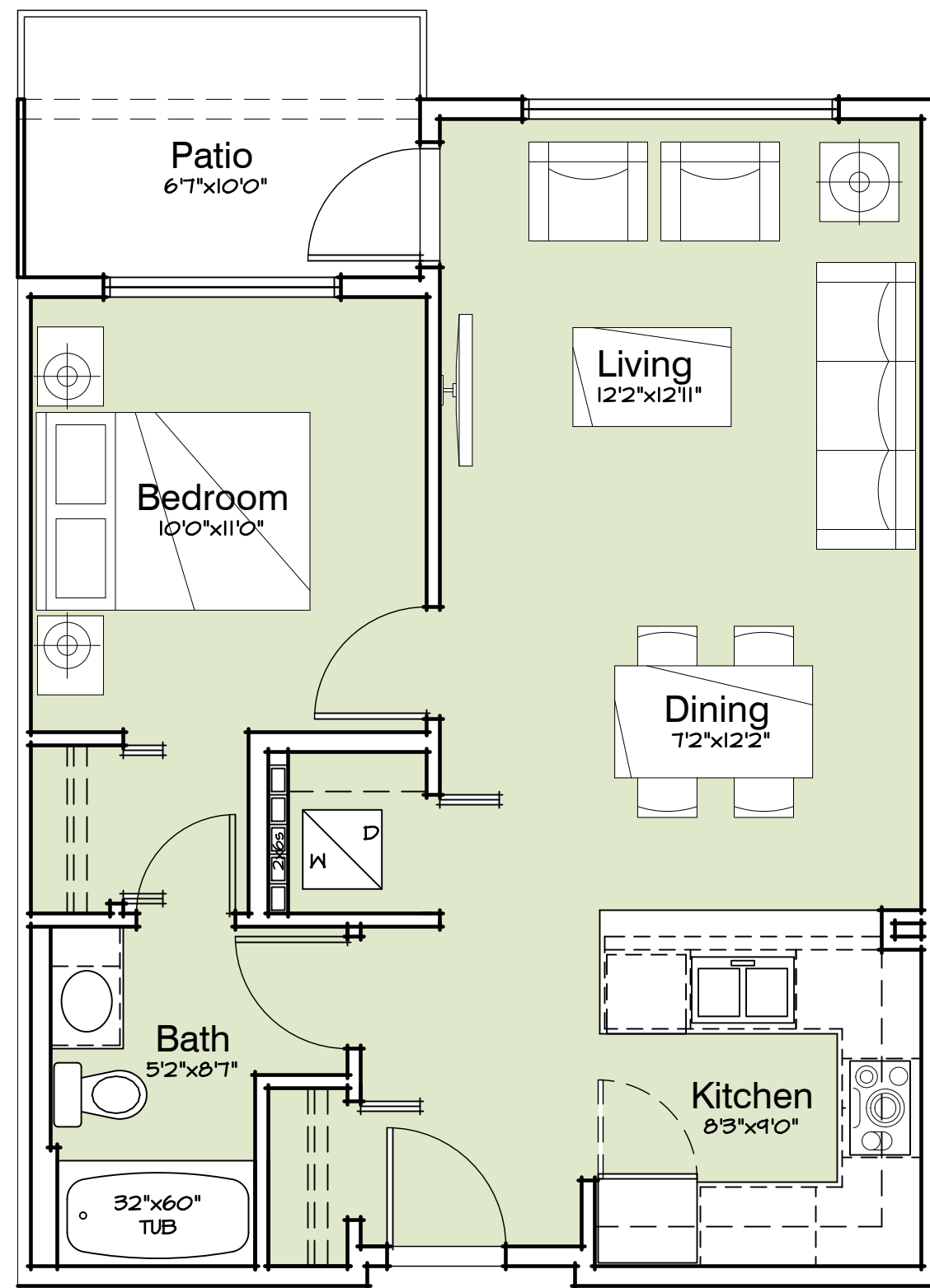
## BLDG B - MATERIALS/COLOURS

September 23, 2015

Sk-3.10

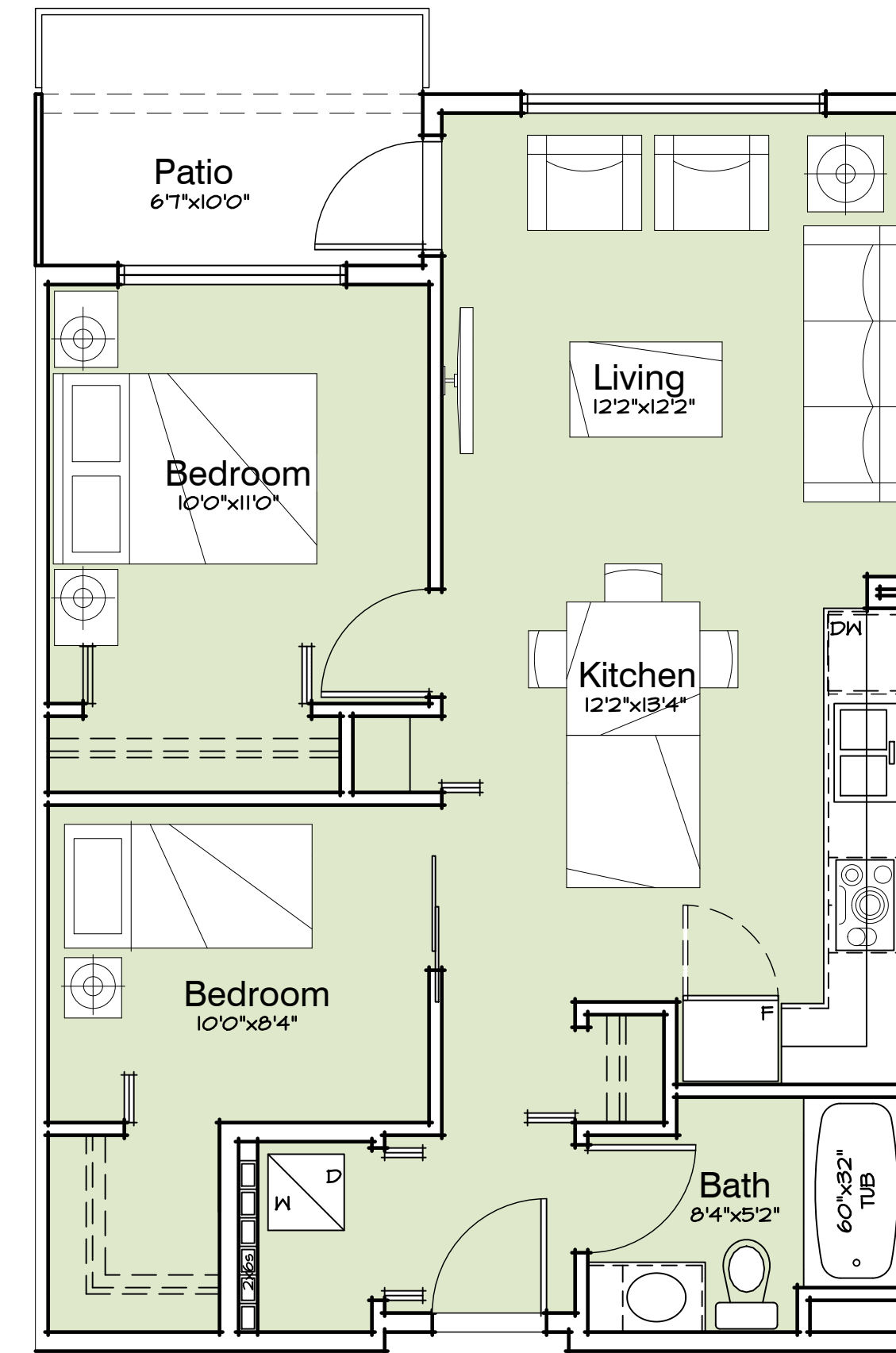


UBC Properties Trust



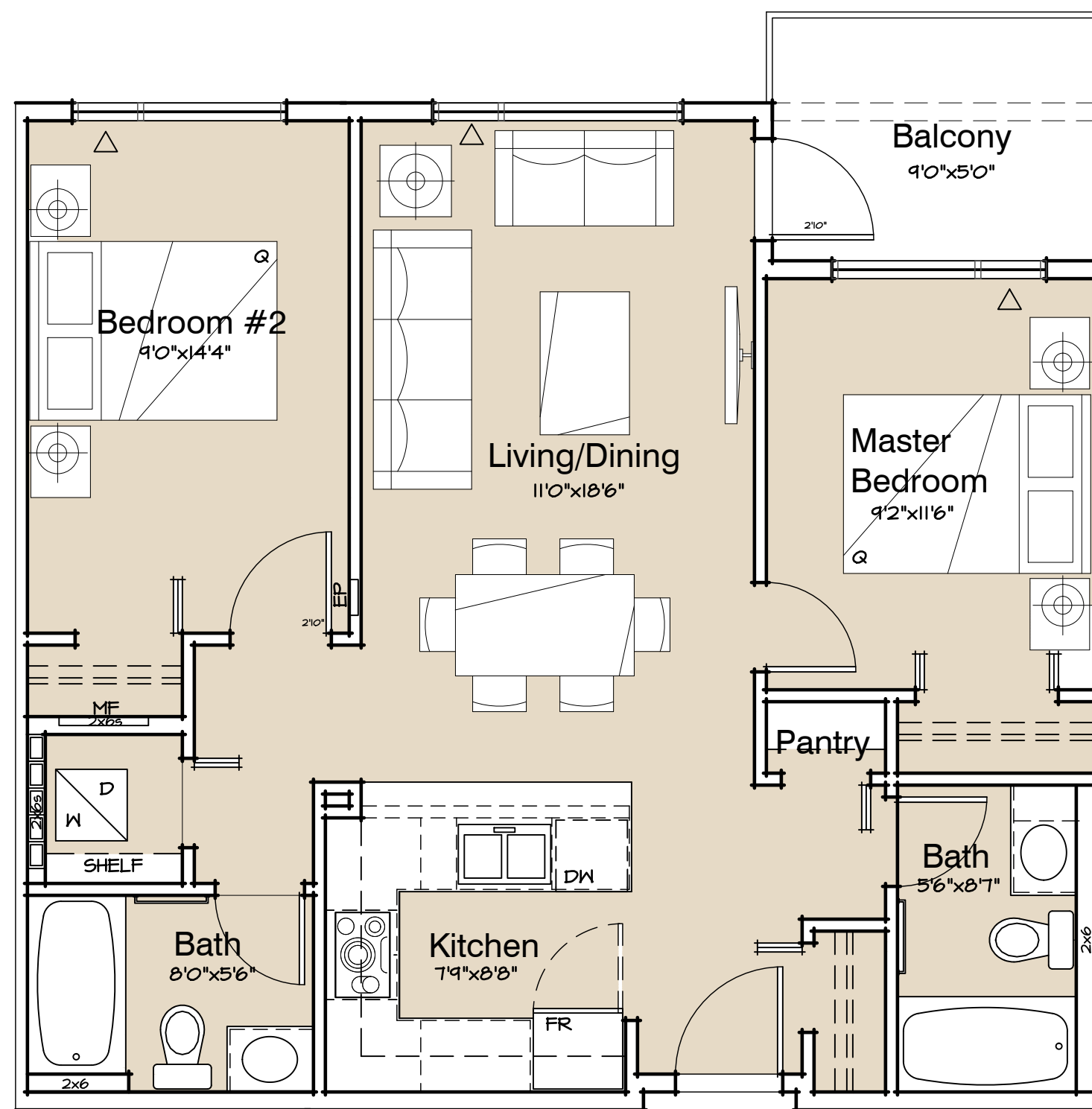
### Unit Type A5

1 Bedroom  
Area: 641 sf  
23 of 82 units



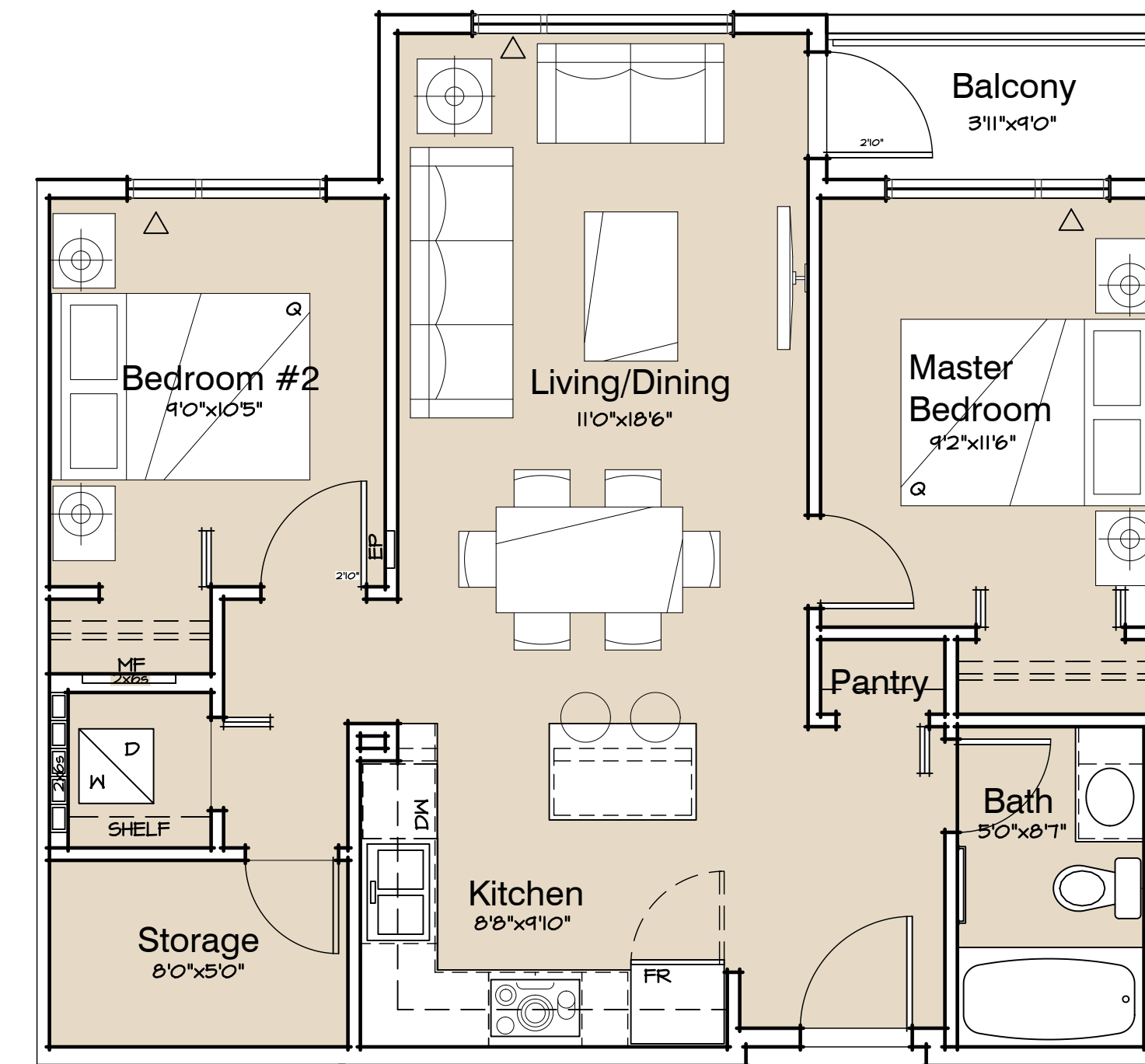
### Unit Type A5 - Alternate

2 Bedroom  
Area: 710 sf  
17 of 82 Units



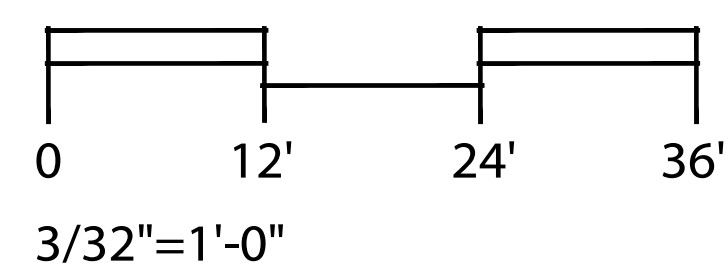
### Unit Type B - Lower

2 Bedroom  
Area: 808 sf  
2 of 82 units



### Unit Type B

2 Bedroom  
Area: 767 sf  
4 of 82 units

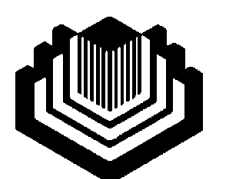


LOTS 27/29 ~ WESBROOK PLACE, UBC

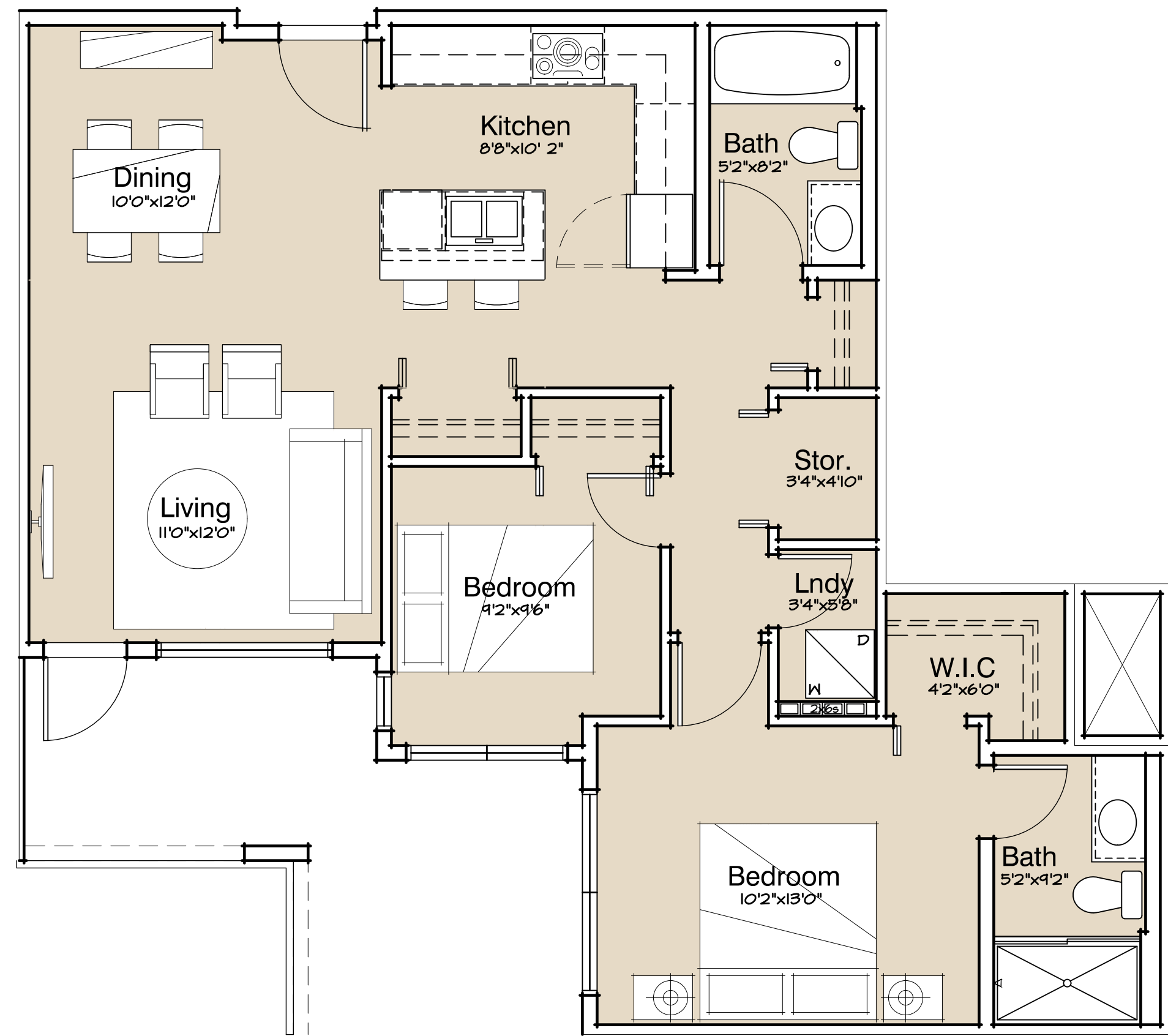
# BLDG B - UNIT PLANS

September 23, 2015

Sk-3.11

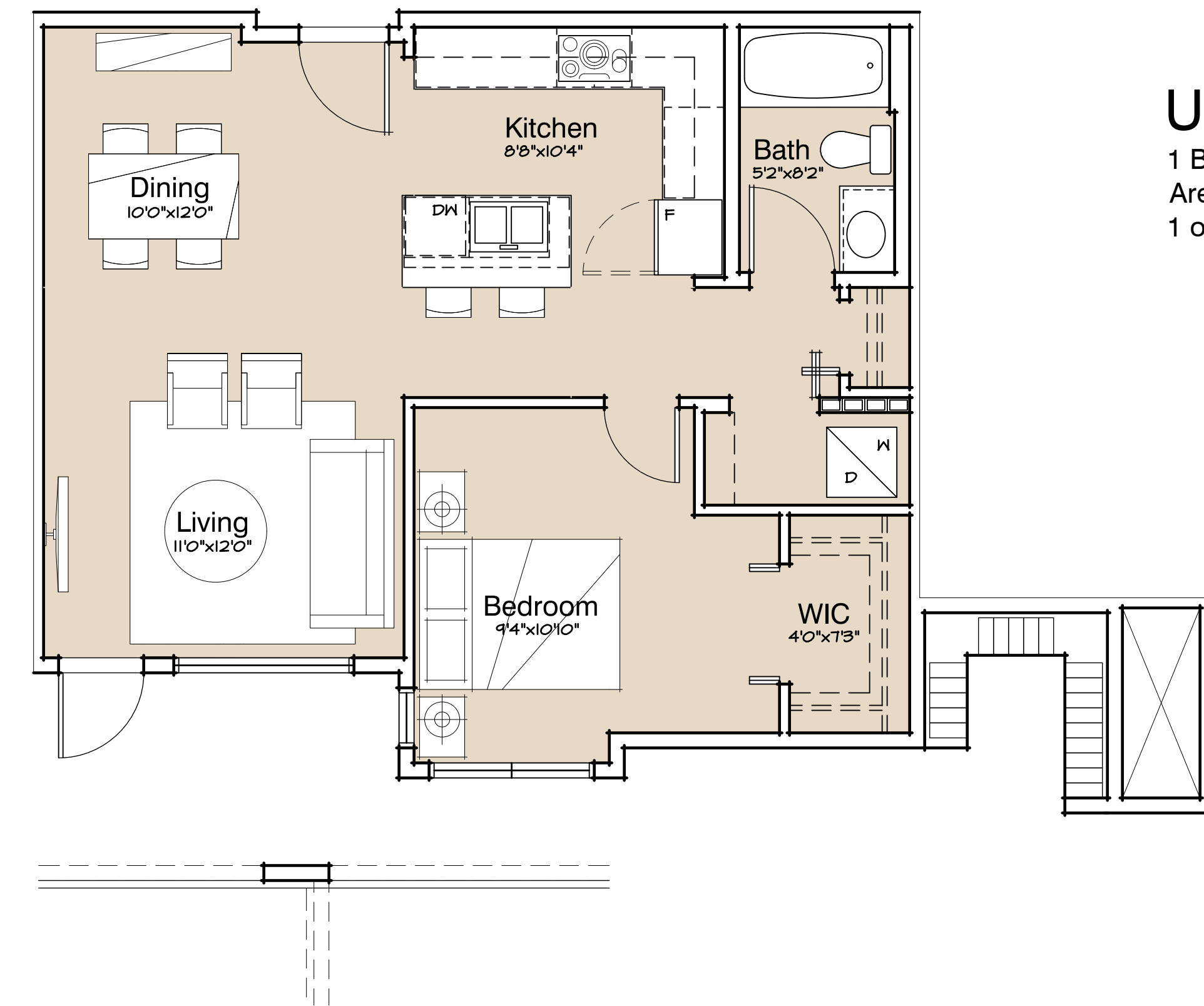


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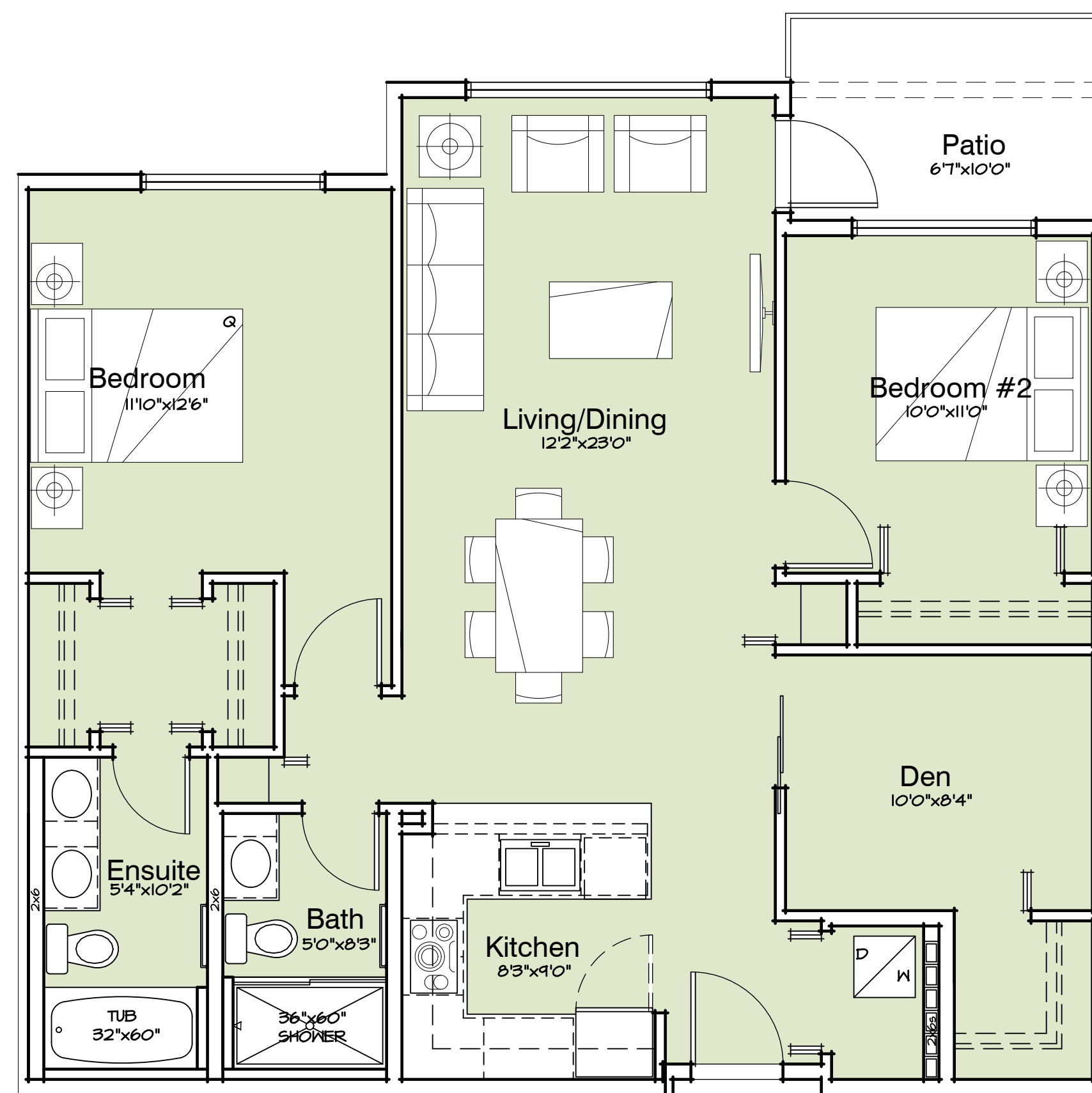
### Unit Type B1

2 Bedroom  
Area: 926 sf  
5 of 82 units



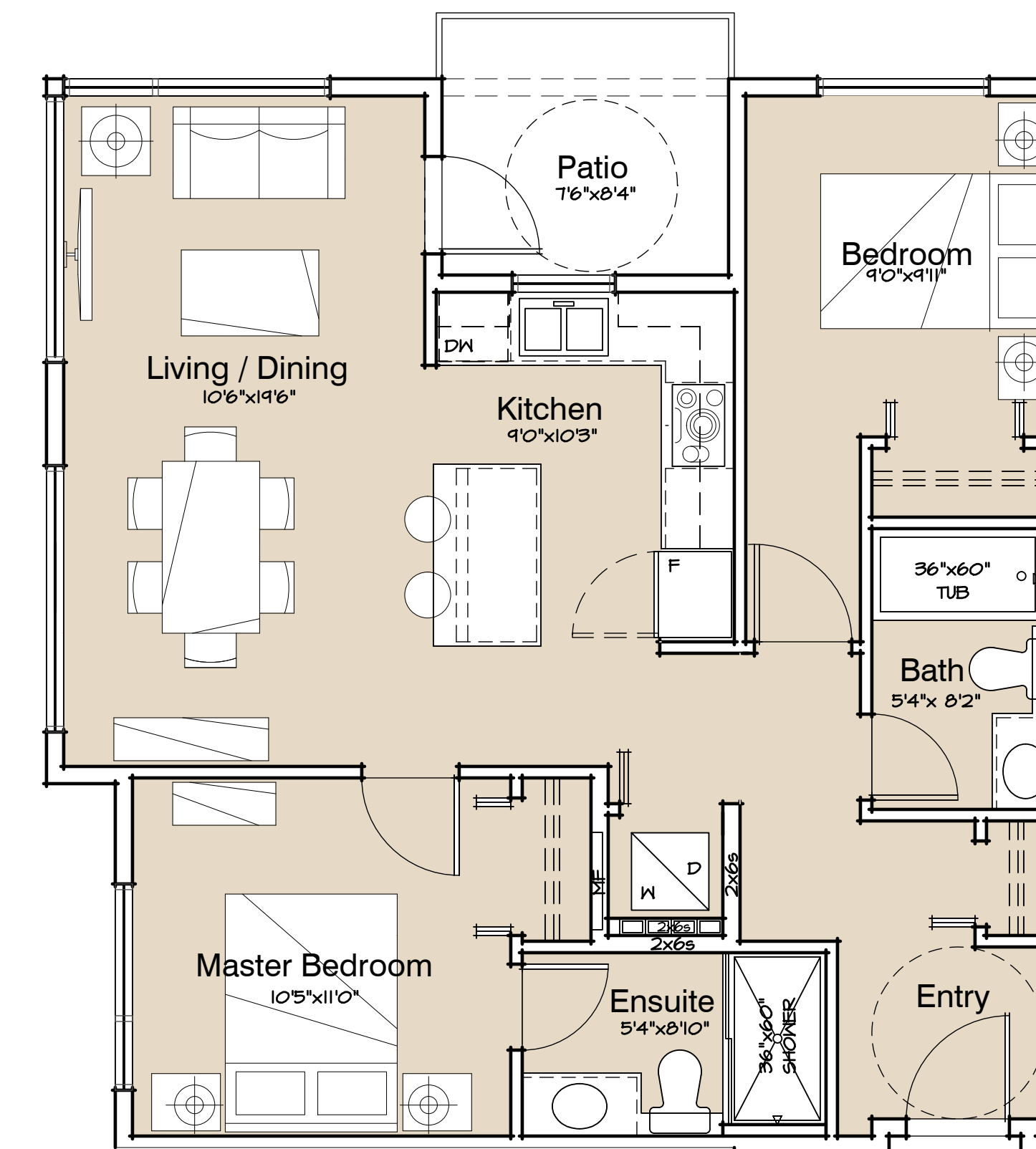
### Unit Type B1a

1 Bedroom  
Area: 687 sf  
1 of 82 units



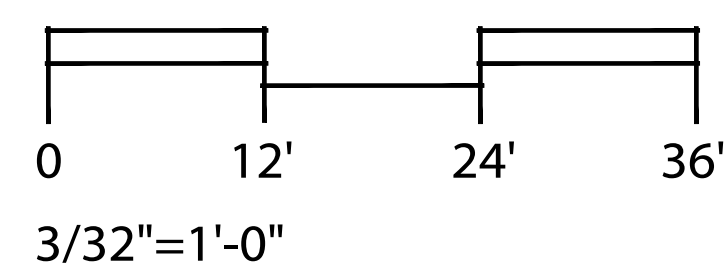
### Unit Type B2

2 Bedroom + Den  
Area: 1073 sf  
1 of 82 units



### Unit Type Ca

2 Bedroom  
Area: 851 sf  
11 of 82 units



LOTS 27/29 ~ WESBROOK PLACE, UBC

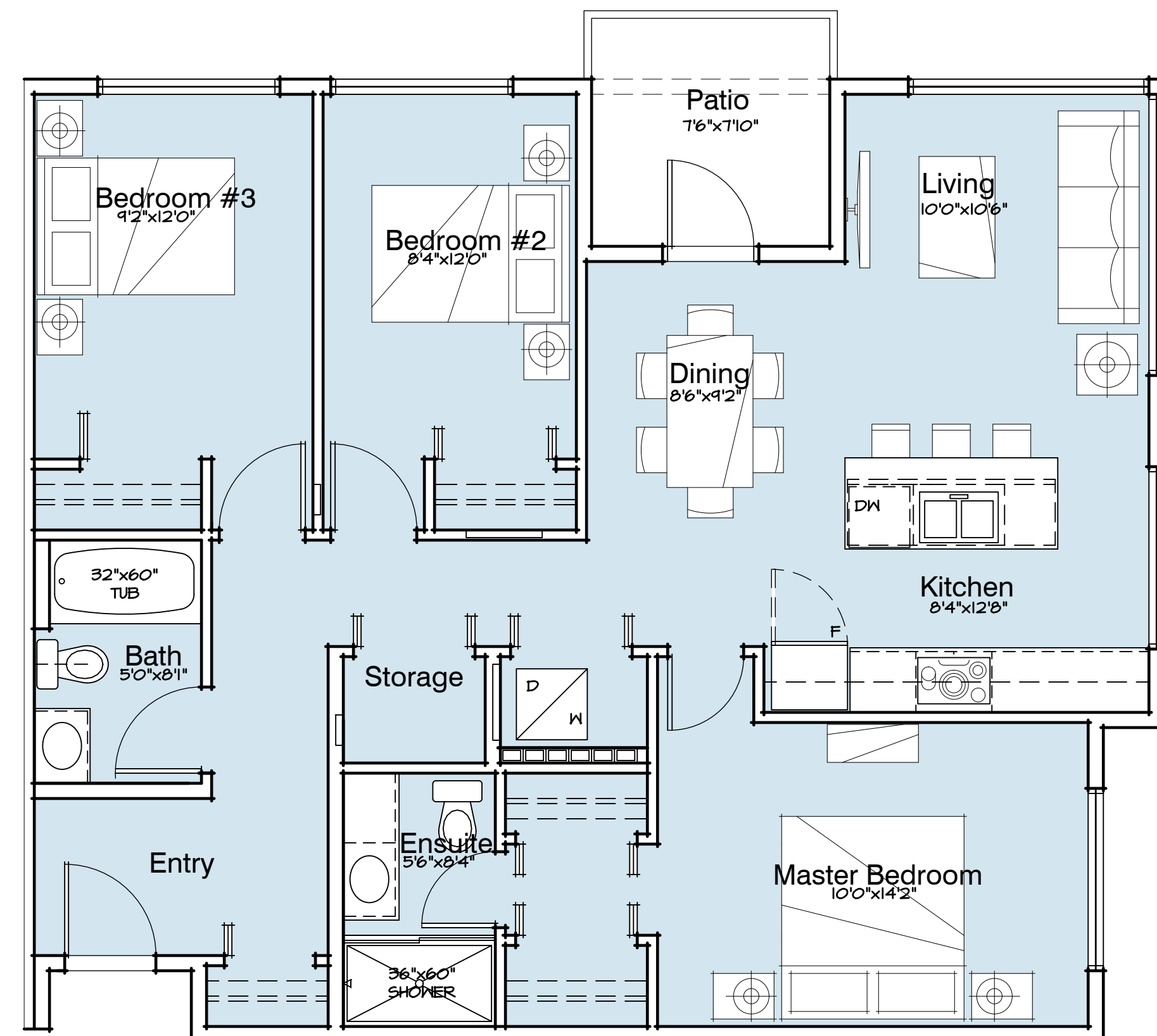
# BLDG B - UNIT PLANS

September 23, 2015

Sk-3.12

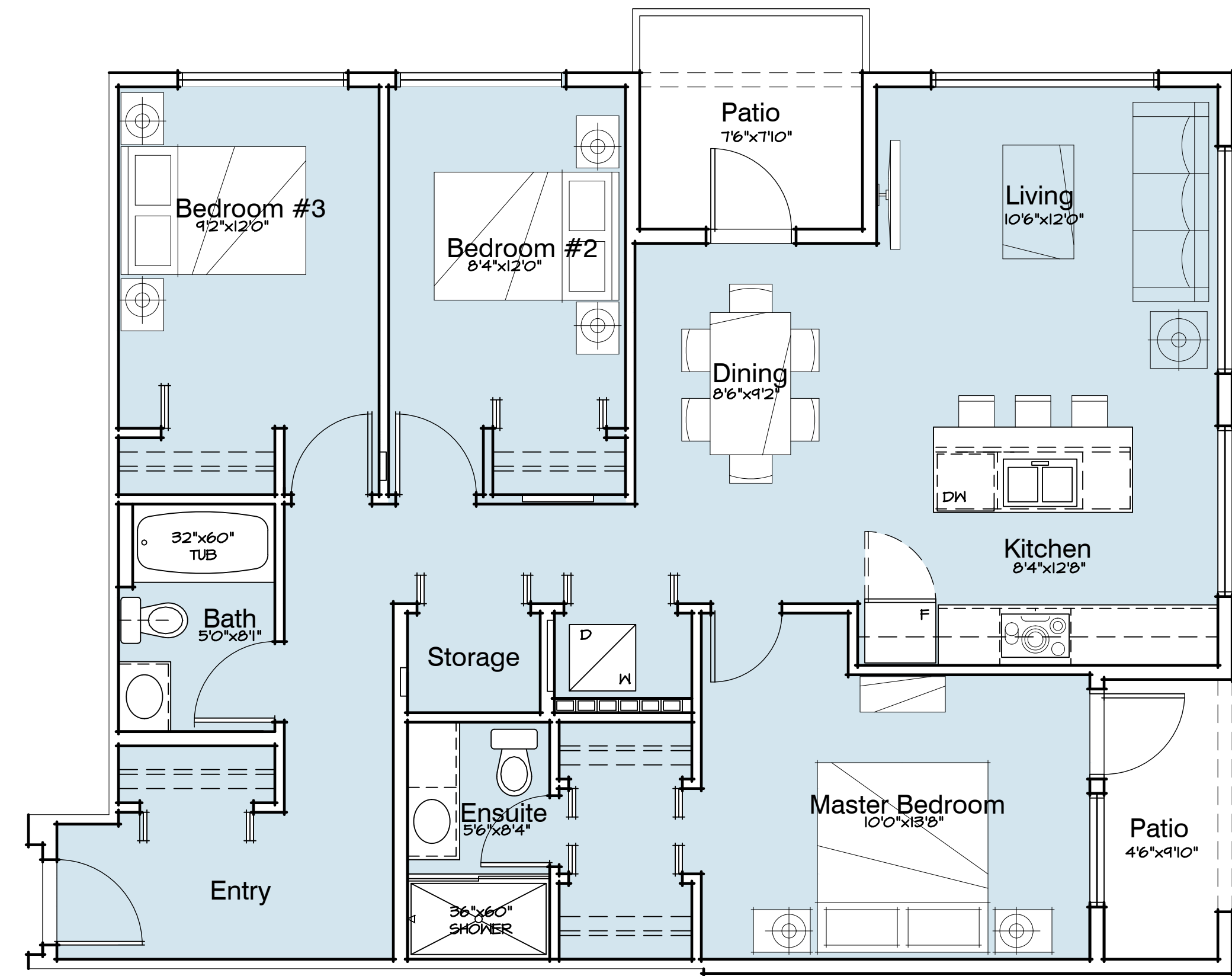


UBC Properties Trust



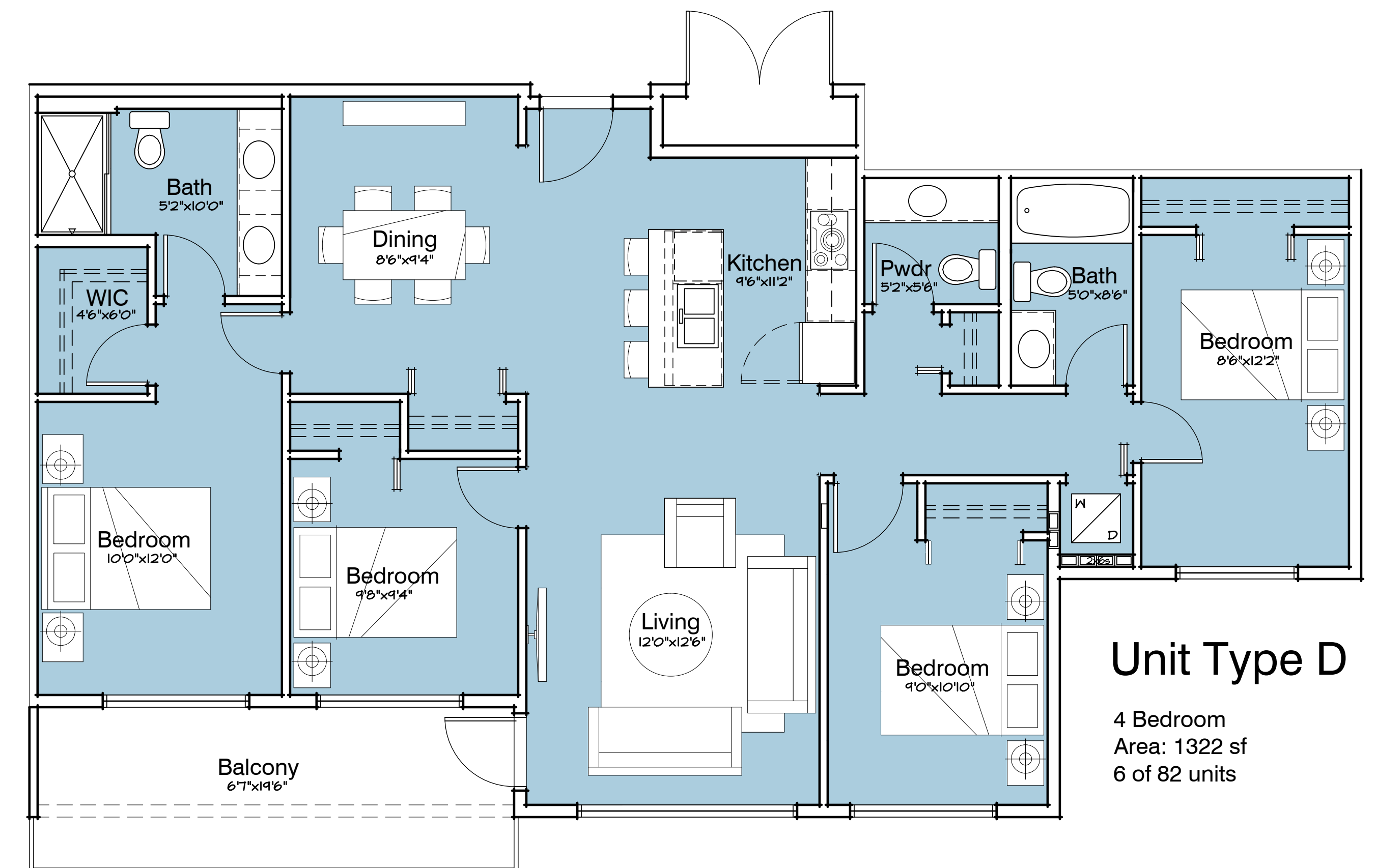
### Unit Type C1a1

3 Bedroom  
Area: 1104 sf  
6 of 82 units



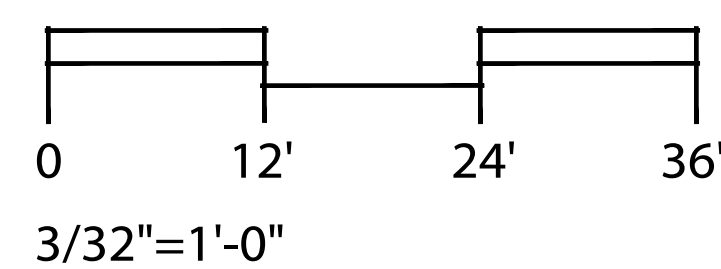
### Unit Type C1e

3 Bedroom  
Area: 1167 sf  
6 of 82 units



### Unit Type D

4 Bedroom  
Area: 1322 sf  
6 of 82 units

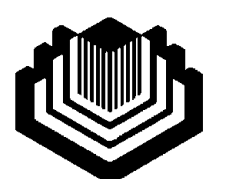


LOTS 27/29 ~ WESBROOK PLACE, UBC

# BLDG B - UNIT PLANS

September 23, 2015

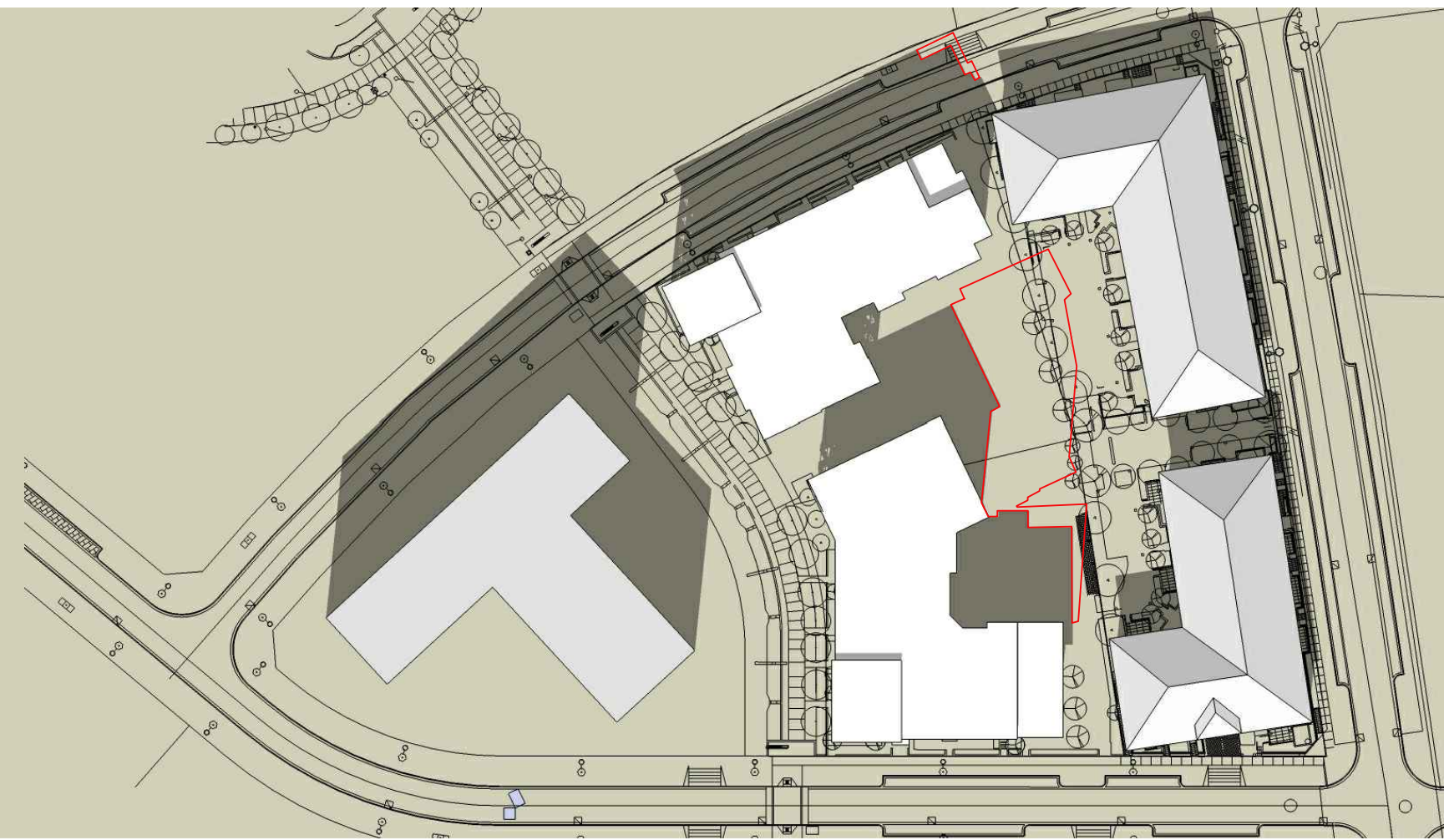
Sk-3.13



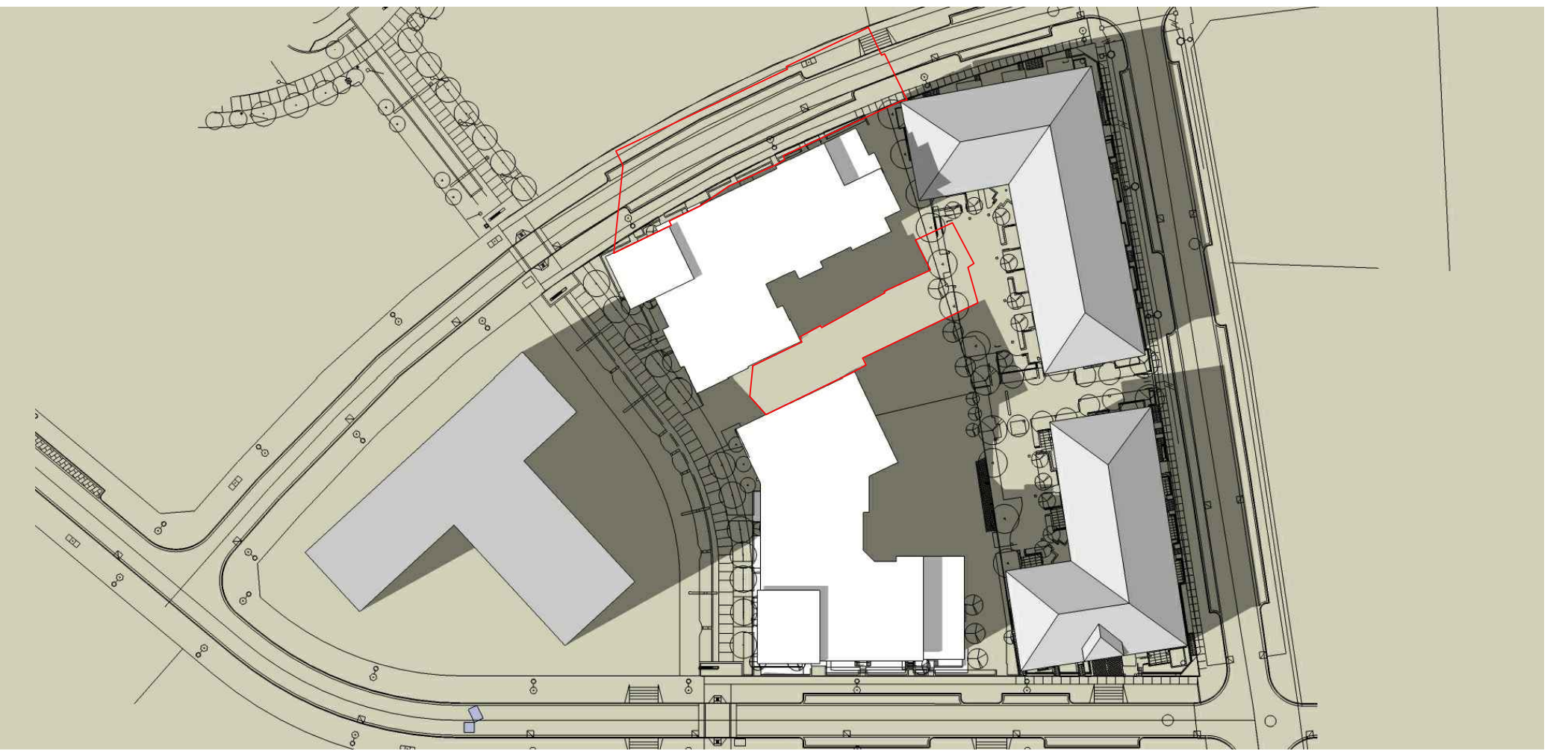
UBC Properties Trust



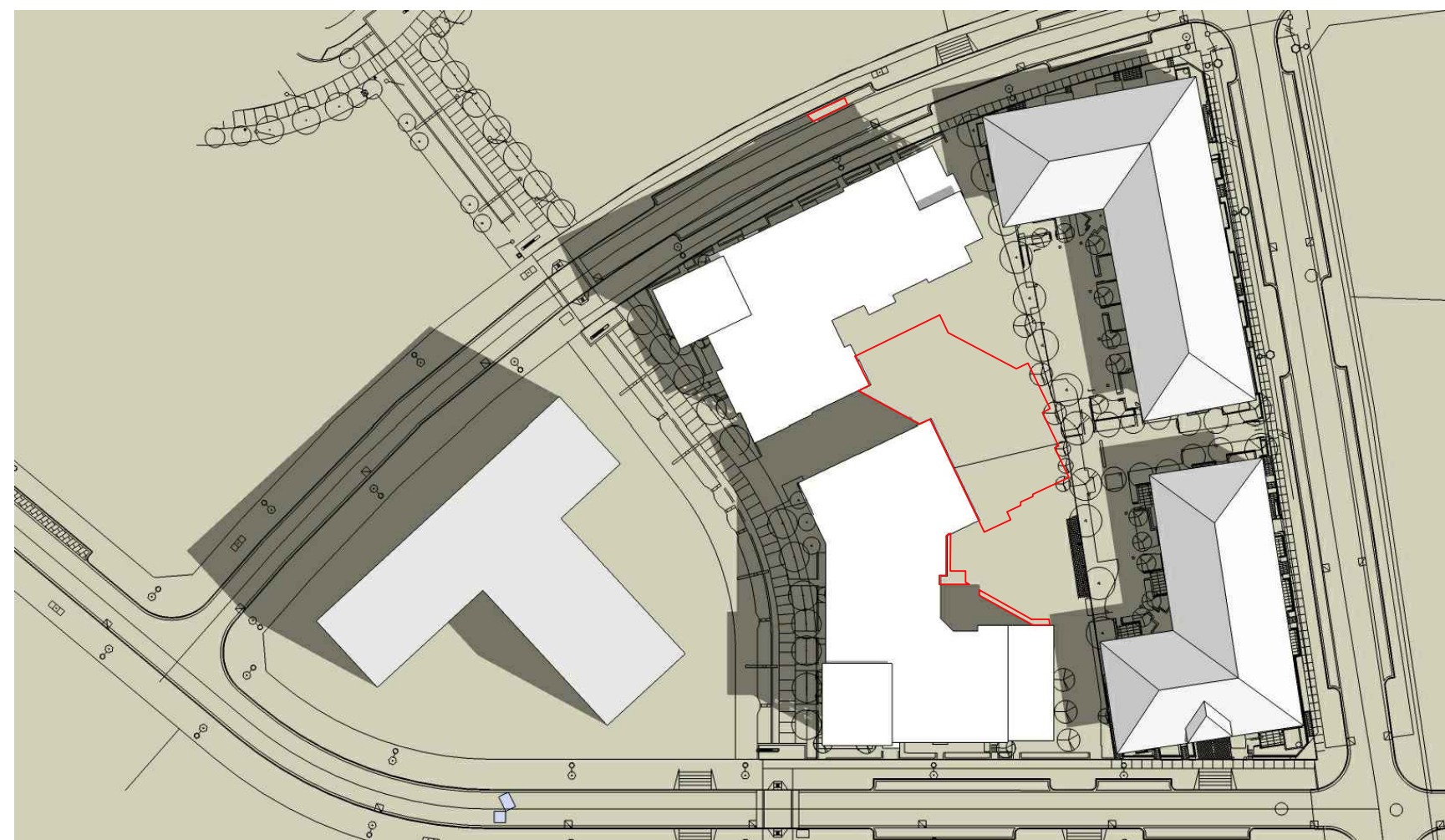
March 21, 9am



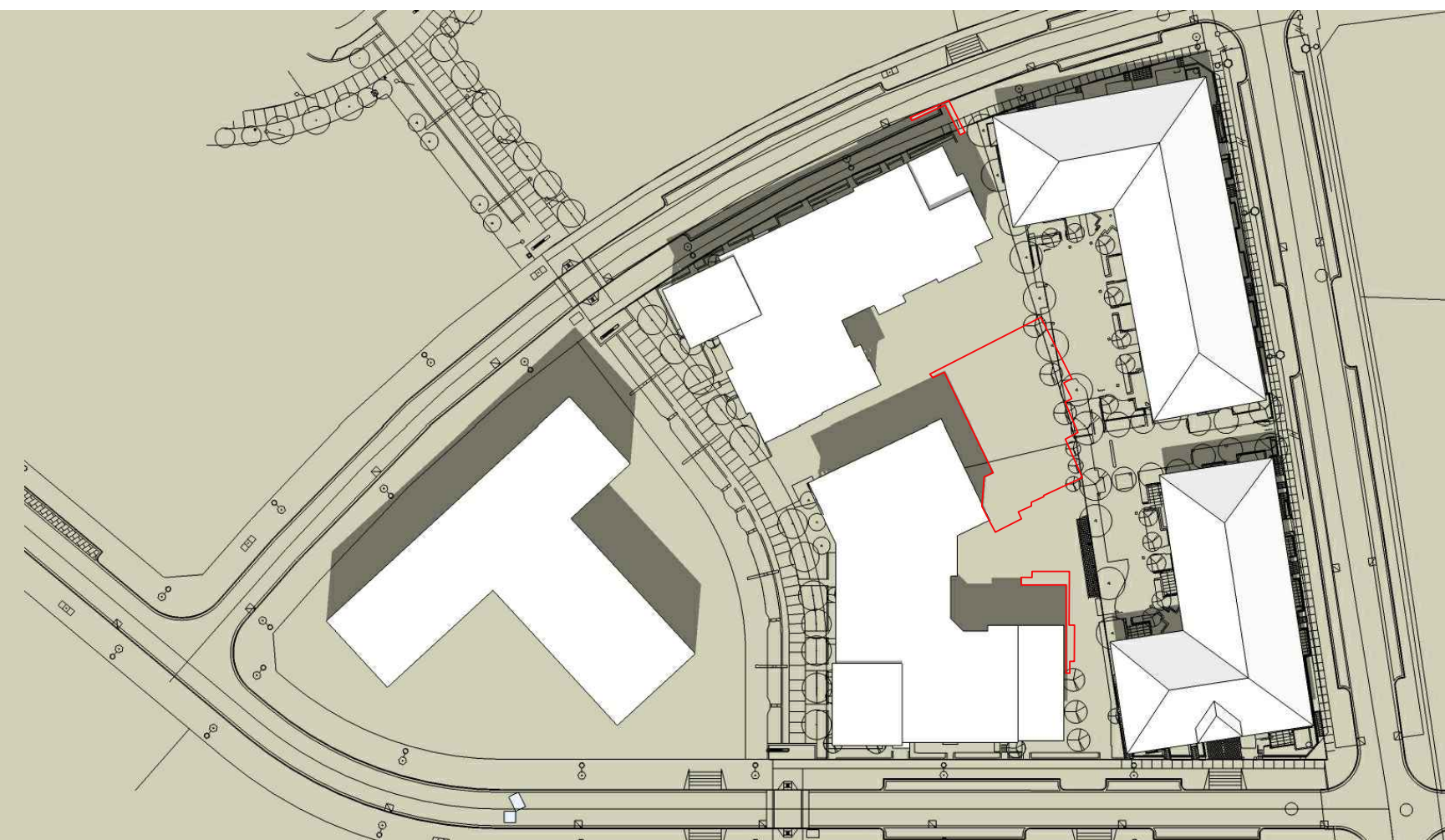
March 21, 12pm



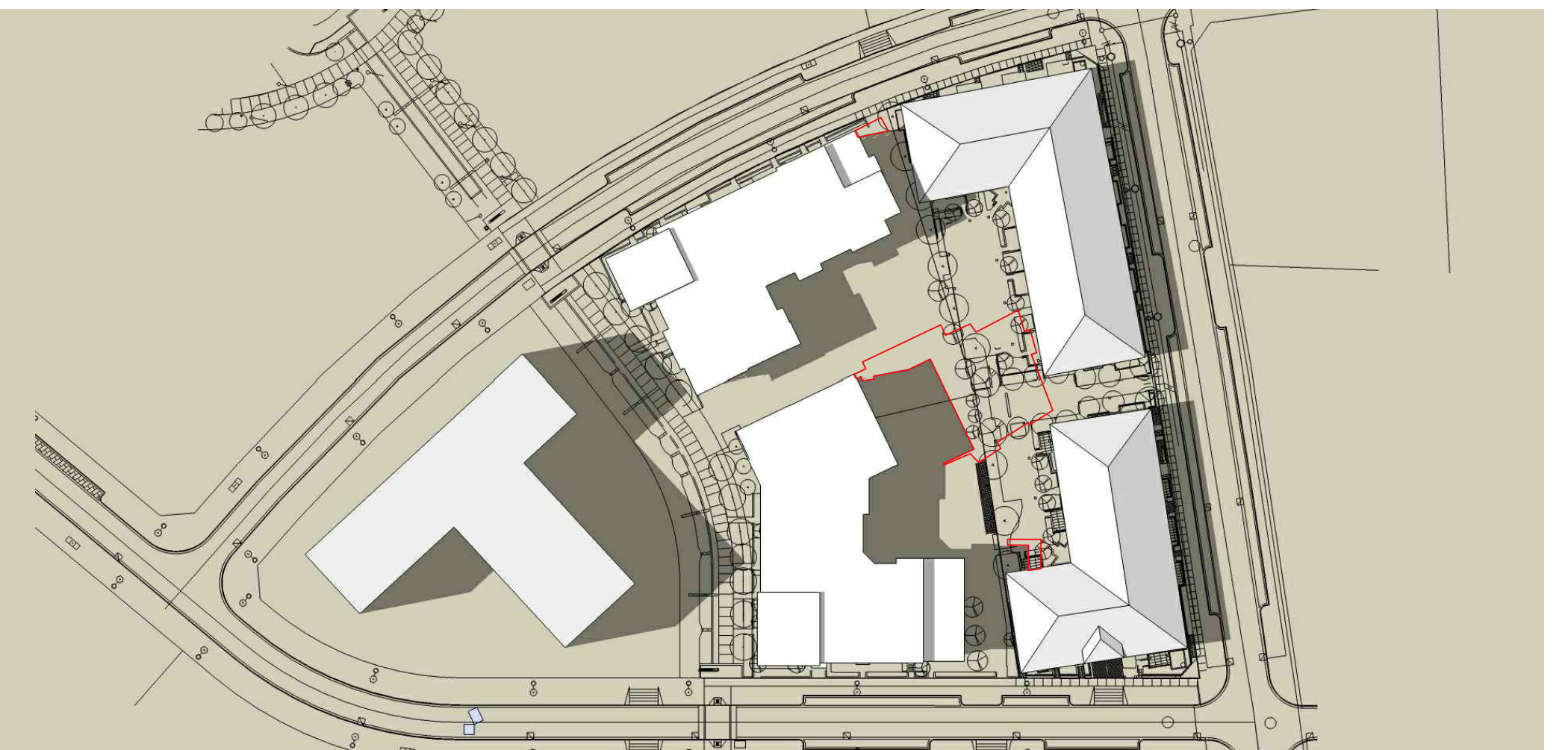
March 21, 3pm



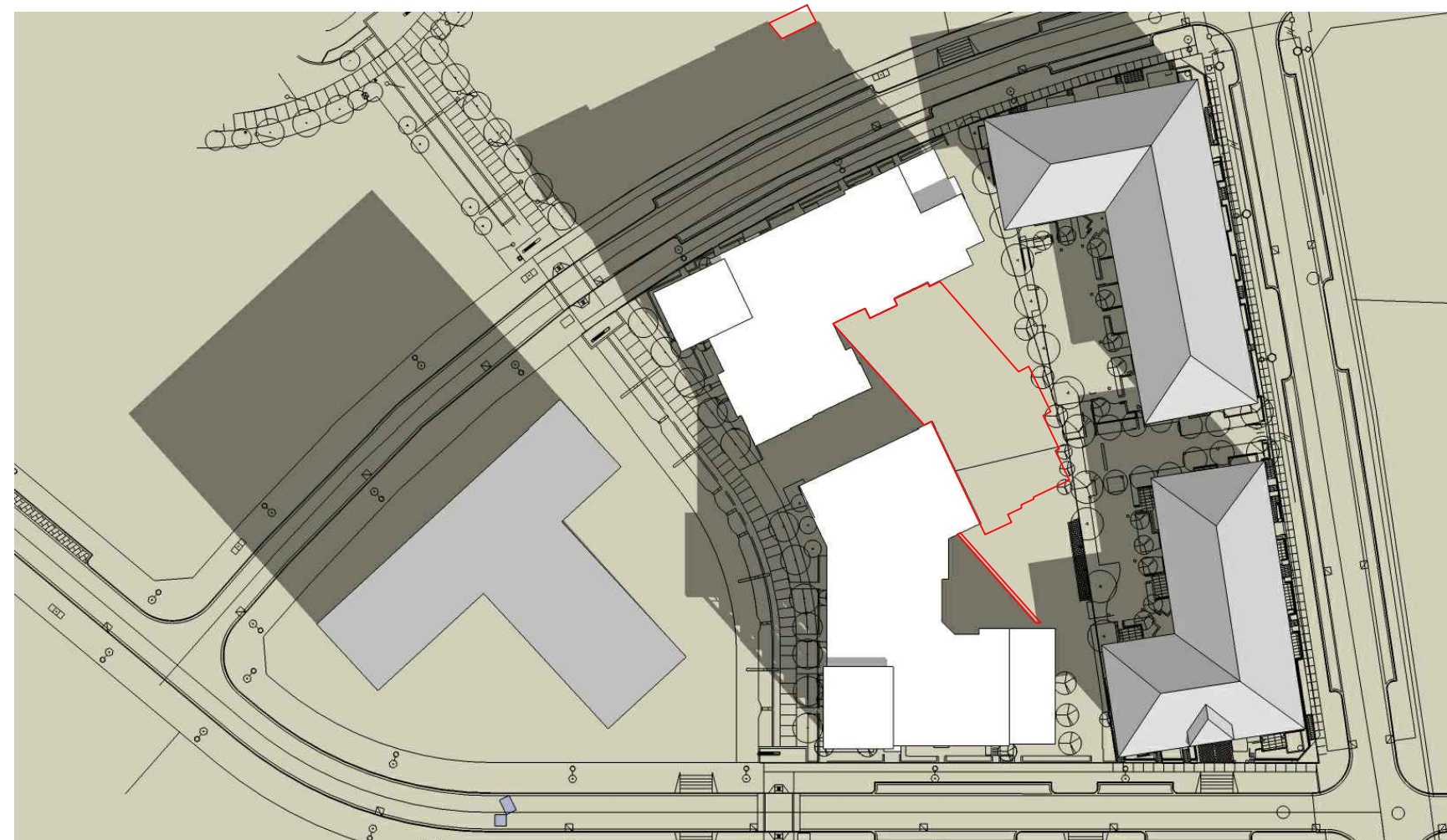
June 21, 9am



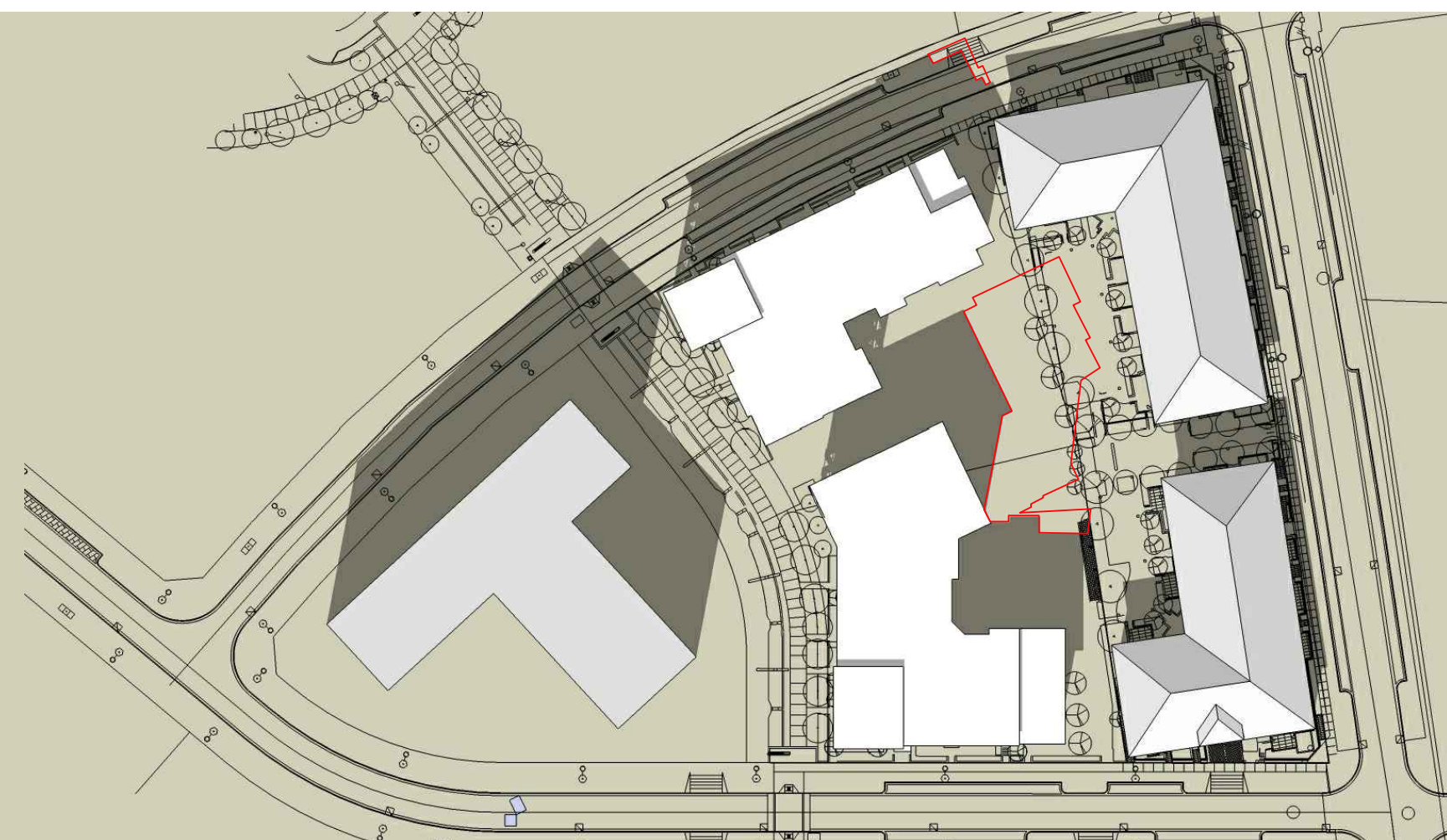
June 21, 12pm



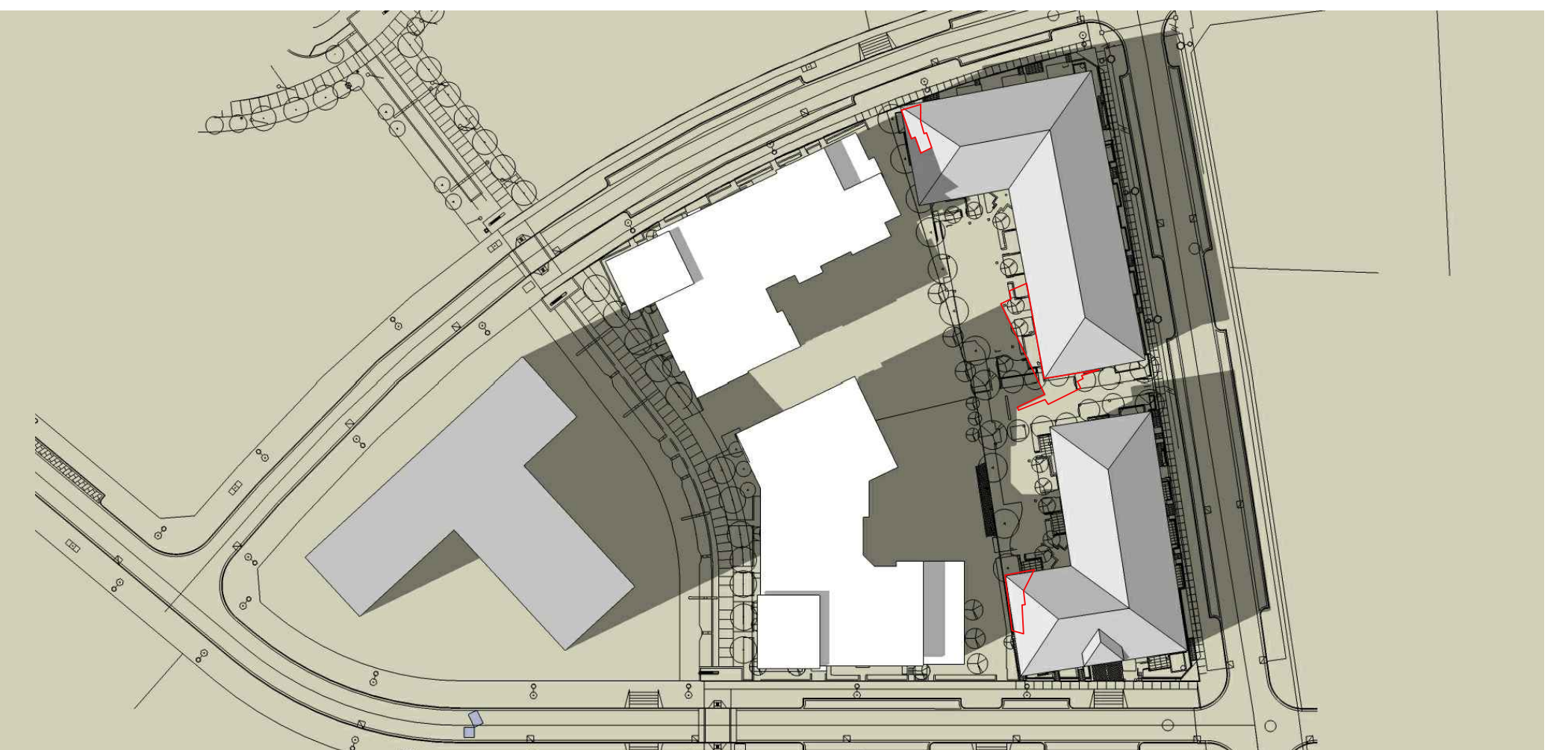
June 21, 3pm



September 21, 9am



September 21, 12pm



September 21, 3pm

N.T.S.



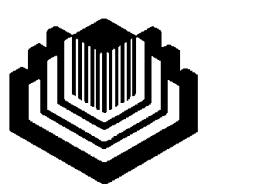
Outline of shadows by previous scheme

# LOTS 27/29 ~ WESBROOK PLACE, UBC

## SHADOW ANALYSIS

September 23, 2015

Sk-4.0

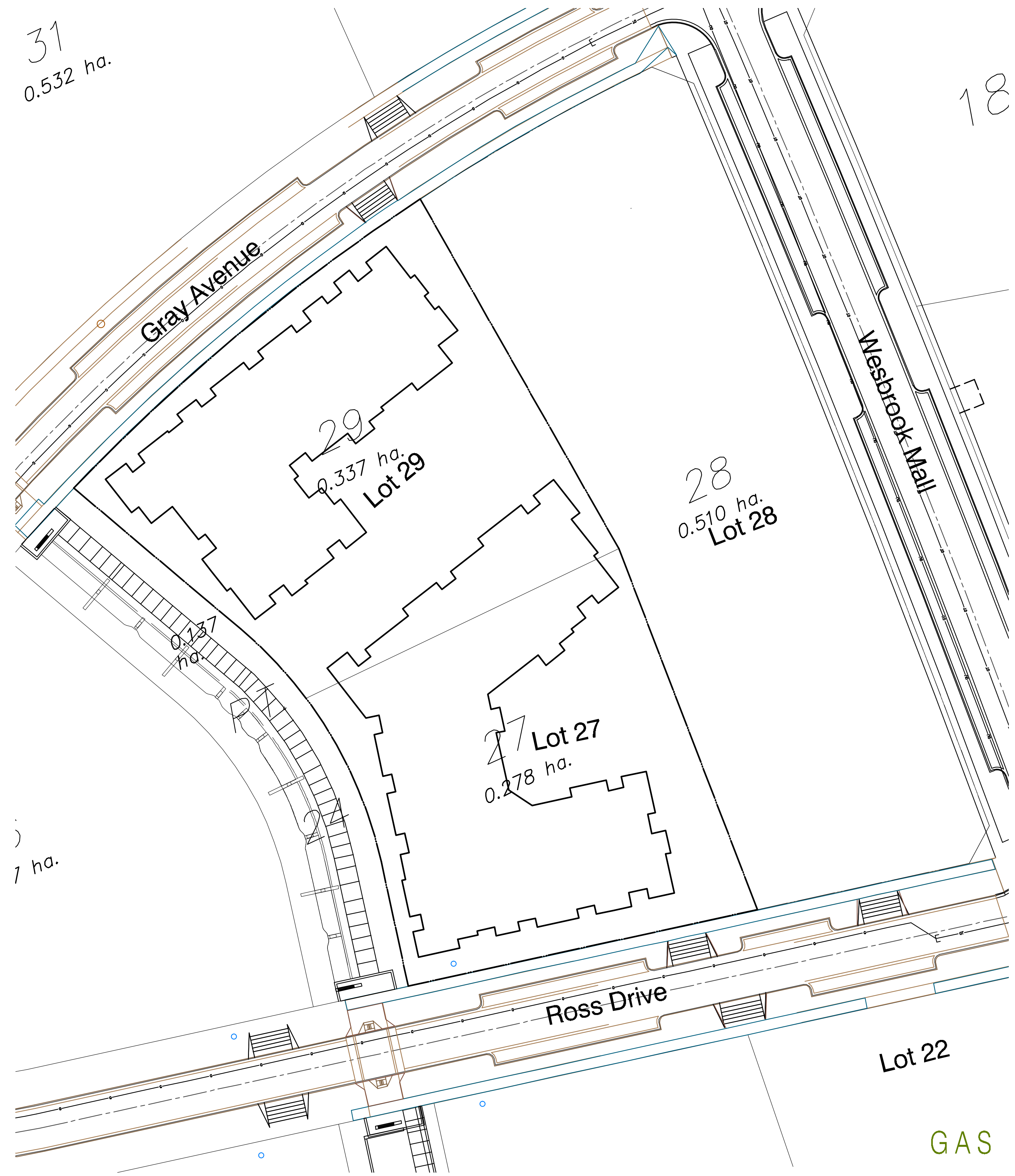
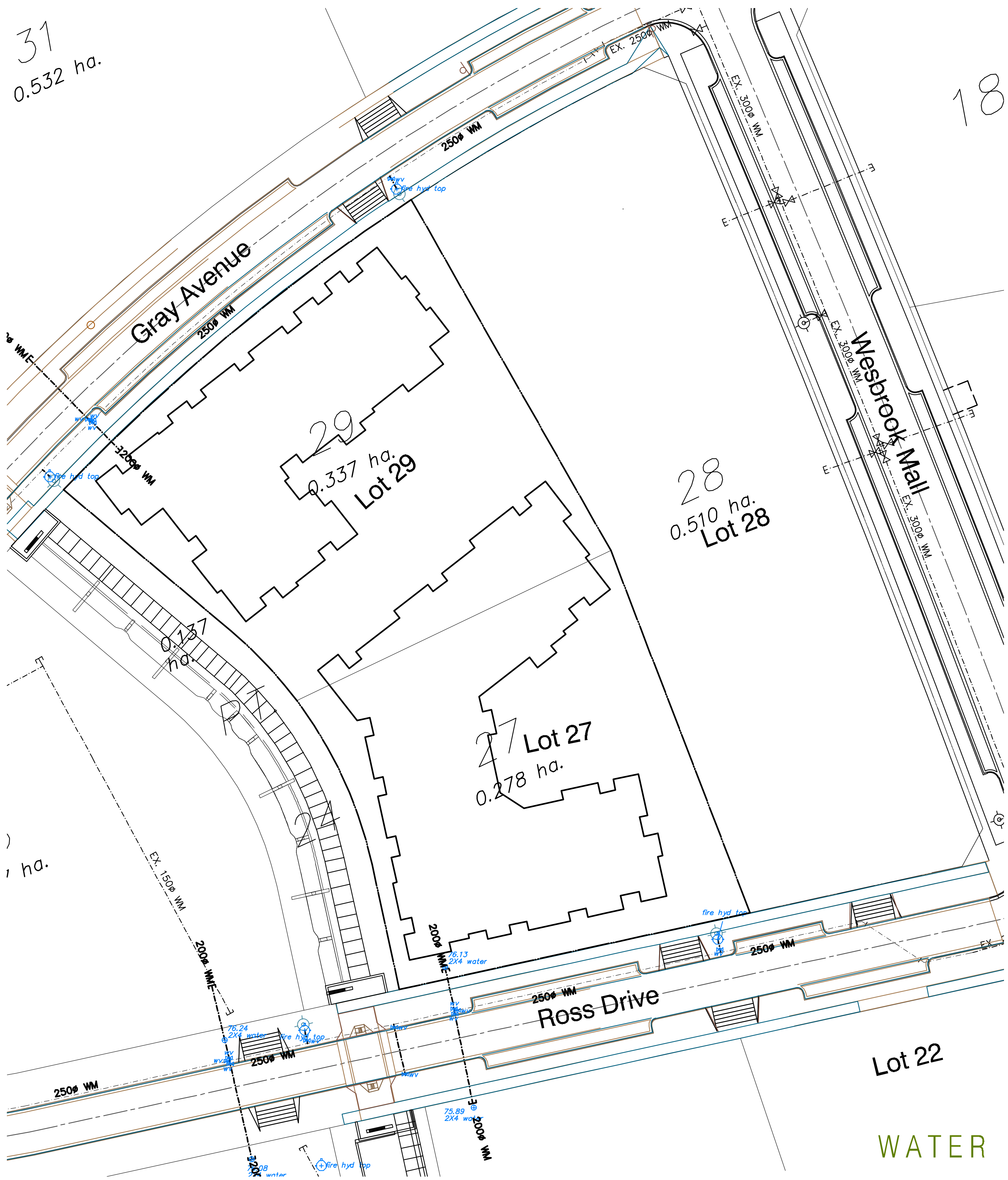


UBC Properties Trust

31  
0.532 ha.

18  
31  
0.532 ha.

18



WATER

GAS



LOTS 27/29 ~ WESBROOK PLACE, UBC  
**UTILITIES RECORD PLANS**

September 23, 2015

Sk-5.0

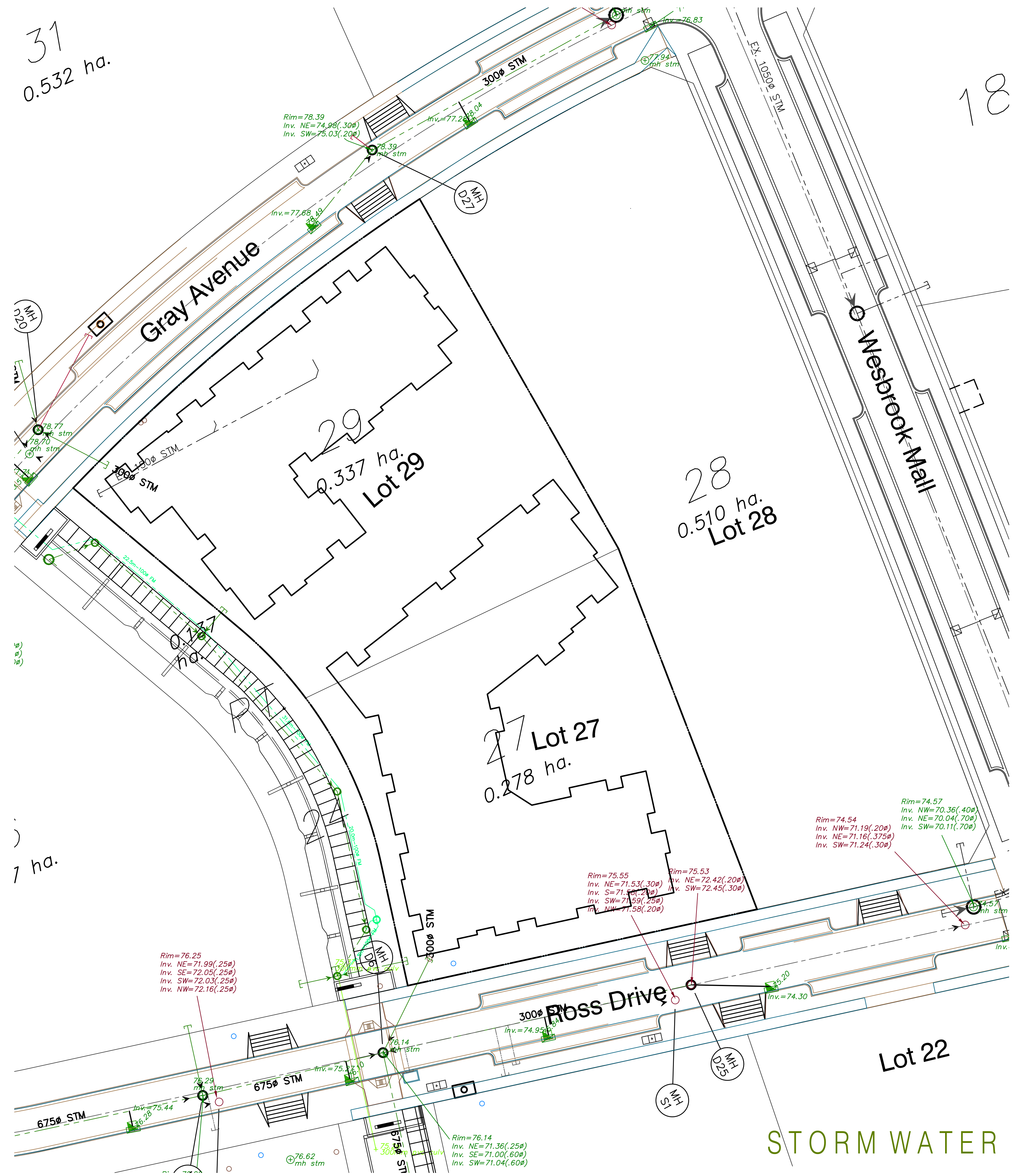
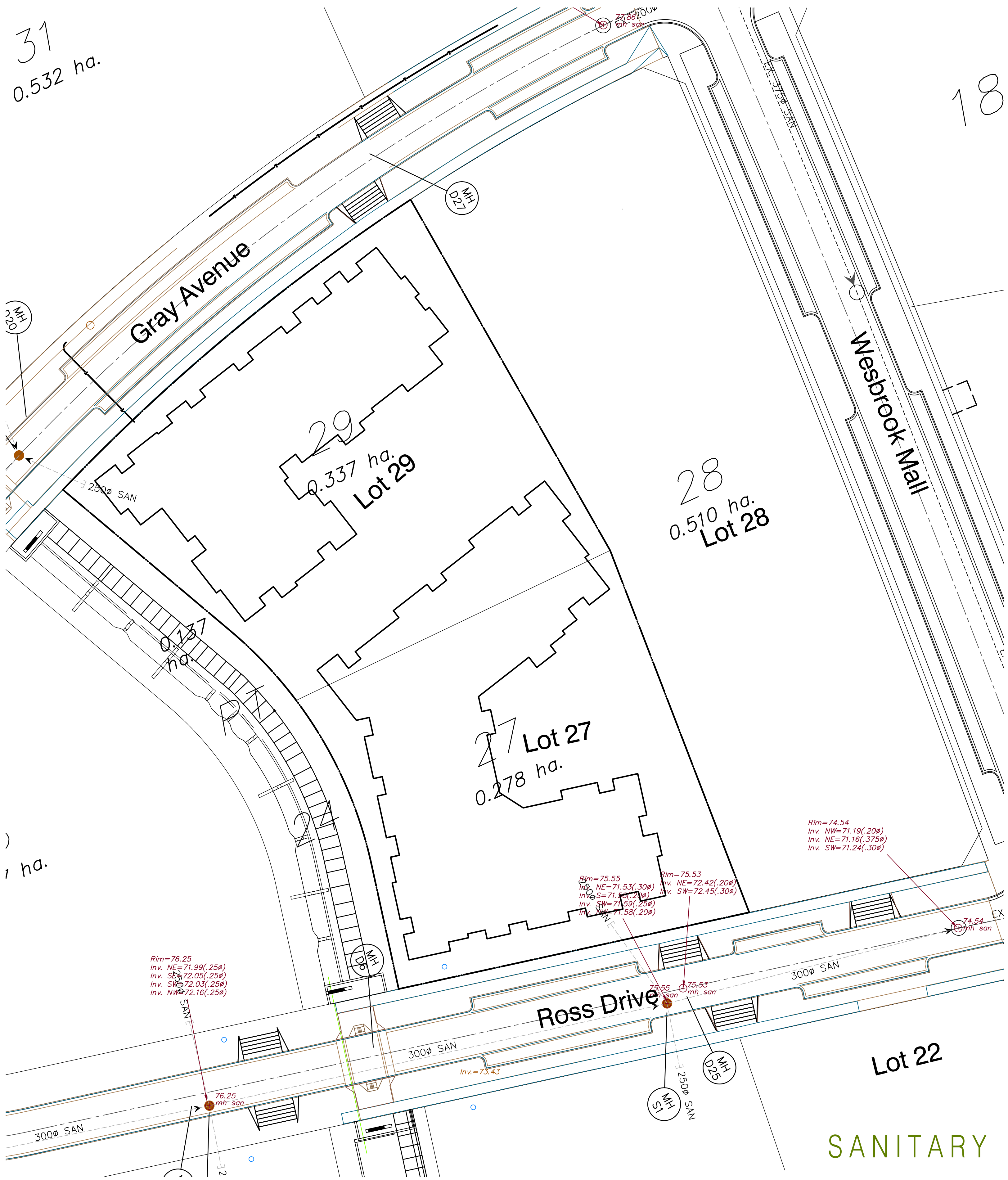


UBC Properties Trust

31  
0.532 ha.

31  
0.532 ha.

18



SANITARY

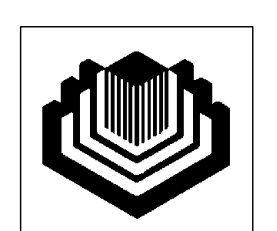
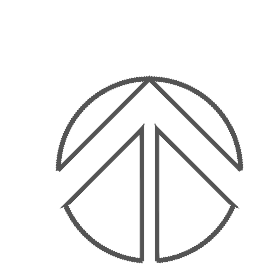
STORM WATER



LOTS 27/29 ~ WESBROOK PLACE, UBC  
**UTILITIES RECORD PLANS**

September 23, 2015

Sk-5.1



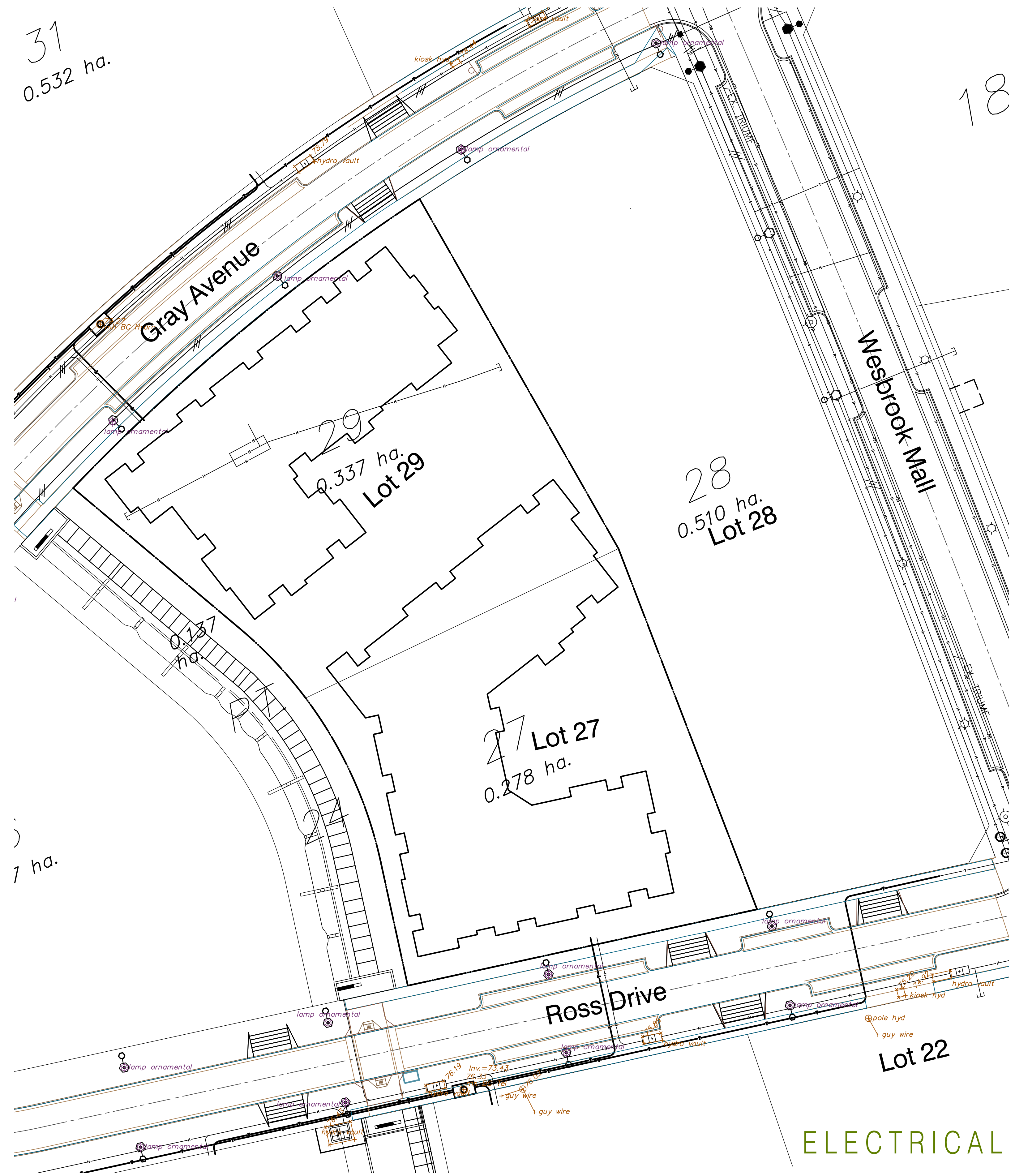
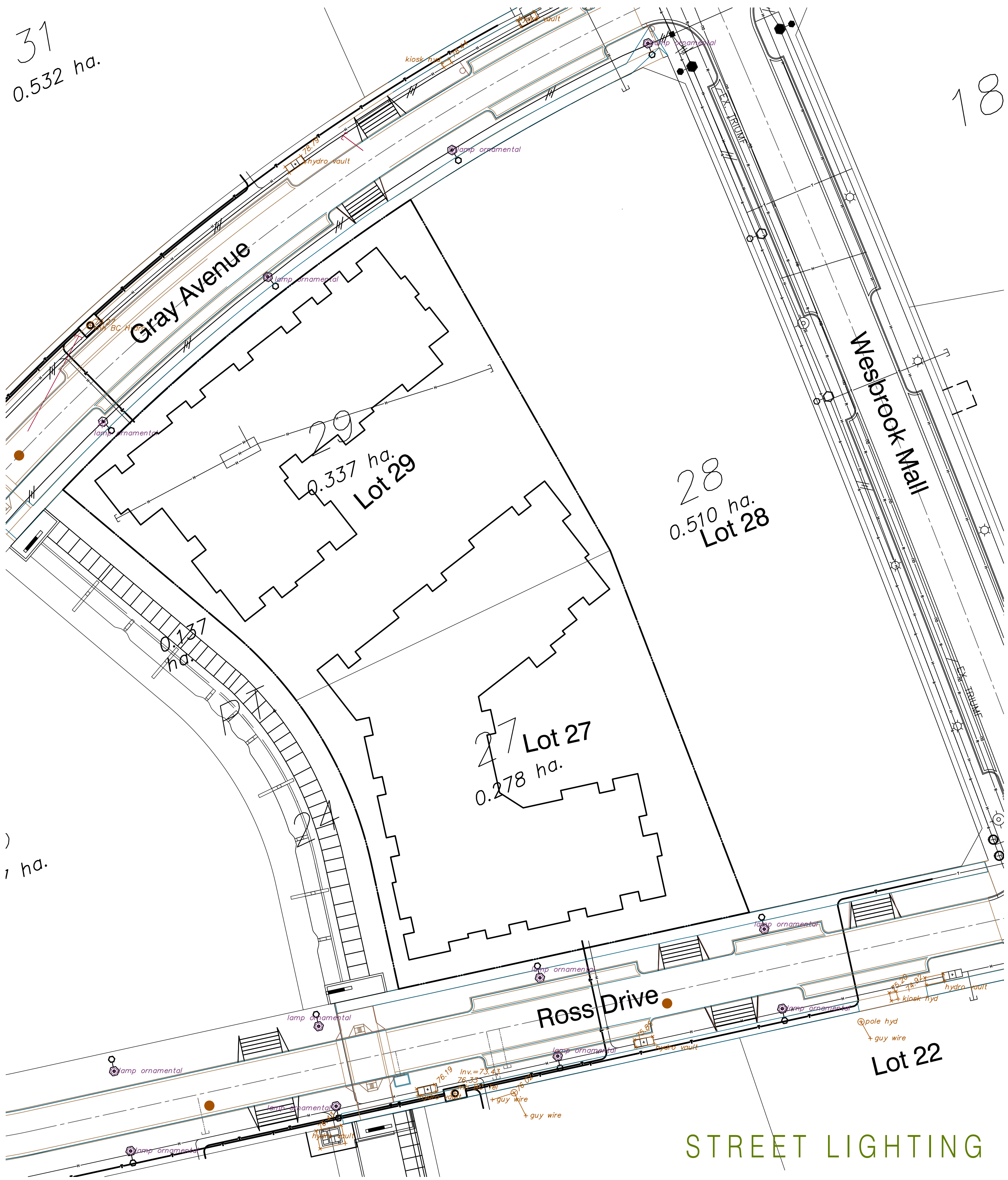
UBC Properties Trust



31  
0.532 ha.

18  
31  
0.532 ha.

18



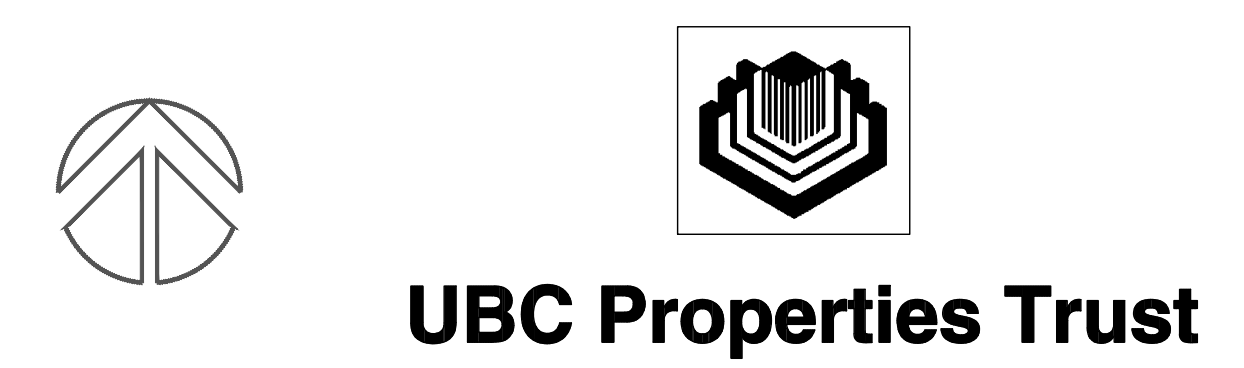
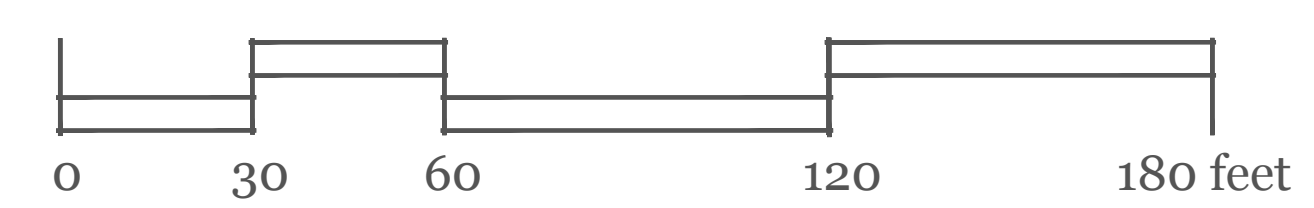
STREET LIGHTING

ELECTRICAL

LOTS 27/29 ~ WESBROOK PLACE, UBC  
**UTILITIES RECORD PLANS**

September 23, 2015

Sk-5.2



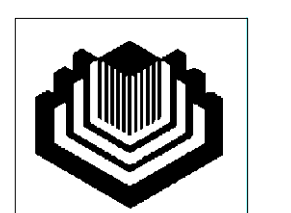
PART TWO: REAP 3.0 PERFORMANCE LEVELS + CHECKLIST				Date:	27-Jan-15				
<b>Performance Category: Sustainable Sites (SS)</b>				The intent of the Sustainable Sites category is to reduce the negative impacts of development, maintain the natural landscape, vegetation and environmental attributes of the site and provide new landscaping that enhances the microclimate.					
				P	Cur	Y	Mb	N	
				Score: 10	0	8	0	2	
<b>SS MANDATORY</b>									
SS	M1	<b>Storm Water Management Plan</b> Develop a plan that integrates the on-site stormwater management system with the neighbourhood-wide stormwater management principles and strategies, including controlling of rate and/or quantity of run-off as required.		M		M			
SS	M2	<b>Adapted and Ecologically Sound Planting</b> Demonstrate that landscape design has minimized the need for pesticides and irrigation through the selection of adaptive and drought-tolerant plants and consideration of the principles of Integrated Pest Management and xeriscaping.		M		M			
SS	M3	<b>Bicycle Parking</b> Provide short term and long term covered storage facilities for securing bicycles in accordance with the <i>UBC Development Handbook</i> .		M		M			
SS	M4	<b>Contribution to Community Car Sharing</b> Contribute to the development of a community car-sharing network by funding the equivalent of one community vehicle per 100 residential units.		M		M			
SS	M5	<b>Light Pollution Reduction</b> Do not exceed Illuminating Engineering Society of North America (IESNA) illuminance requirements as stated in the <i>Recommended Practice Manual: Lighting for Exterior Environments</i> .		M		M			
SS	M6	<b>Recycling Collection</b> Provide for collection of domestic paper, plastic, glass and metal recyclables by contracting with a waste management company for the service. Recycling storage space shall be designed in accordance with <i>Metro Vancouver's Technical Specifications for Recycling Amenities</i> .		M		M			
SS	M7	<b>Compost Collection</b> Provide a space in the building for the collection compost and provide for the compost collection through a contract with UBC Waste Management or another waste management service provider. Design the space in the building in accordance with <i>Metro Vancouver's Technical Specifications for Recycling Amenities</i> .		M		M			
<b>SS 1 RECYCLING + COMPOSTING</b>				2	0	2	0	0	
SS	1.1	<b>In-Suite Recycling + Composting Station</b> Provide a space and system for simplified separation and collection of recycling and compostables in each suite or unit.	2		2				
<b>SS 2 ALTERNATIVE TRANSPORTATION</b>				8	0	6	0	2	
SS	2.1	<b>Additional Bicycle Facilities</b> In addition to the requirements for bicycle parking in the <i>Development Handbook</i> , provide an additional 0.25 Class 1 bicycle storage/bedroom and a bicycle repair station within the building.	2					2	
SS	2.2	<b>Electric Vehicle Charging - Visitor</b> Provide one dedicated parking spot per 100 residential units for visitors of residents/owners, fully equipped with Level 2 charging station.	2		2				
SS	2.3	<b>Electric Vehicle Charging - Resident</b> Install necessary conduit and transformer capacity to accommodate Level 2 Charging Stations for the following percentage of owners'/residents' parking (Max = 4 Points): o 10% of owners'/residents' parking - 2 Points o 20% of owners'/residents' parking - 2 Points	4		4				

Performance Category: Water Efficiency (WE)				The intent of the Water Efficiency category is to encourage strategies that reduce the amount of potable water used for landscape irrigation and building operations.					
				P	Cur	Y	Mb	N	
				Score: 18	0	10	0	8	
<b>WE MANDATORY</b>									
WE	M1	<b>Efficient Irrigation Technology</b> Design and install a water-efficient irrigation system that includes an automated controller, rain or soil sensors and pressure regulator and for non-grass areas use a micro- or drip-feed irrigation system or install a temporary irrigation system.		M		M			
WE	M2	<b>Low-Flush Toilets</b> Specify and install high efficiency 4.8 L per flush (1.28 gal) single flush toilets or 3.4/6 L per flush (0.9gal/1.6gal) dual flush toilets for all water closets.		M		M			
WE	M3	<b>Low-Flow Faucet Aerators</b> Specify and install low-flow faucets with aerators in all bathroom sinks (max. 3.8 L per minute) and in all kitchen sinks (max. 6.8 L per minute).		M		M			
WE	M4	<b>Low-Flow Shower Heads</b> Specify and install water-saving showerheads with a maximum flow rate of 8.5 L per minute in each shower.		M		M			
WE	M5	<b>Energy Star Clothes Washers and Dishwashers</b> Specify and install Energy Star-labelled clothes washers and dishwashers in each unit, or specify and offer only Energy Star models if these appliances are optional.		M		M			
<b>WE 1 WATER EFFICIENT LANDSCAPING</b>				6	0	3	0	3	
WE	1.1	<b>Reduce Potable Water Use</b> Reduce potable water use for site irrigation needs by 50% from the calculated midsummer baseline.	3		3				
WE	1.2	<b>Eliminate Potable Water Use</b> Eliminate potable water use for site irrigation needs.	3					3	
<b>WE 2 WATER USE REDUCTION</b>				7	0	7	0	0	
WE	2.1	<b>Low-Flow Showerheads</b> Specify and install water-saving showerheads (maximum of 5.7 L per minute) in each shower.	2		2				
WE	2.2	<b>Water Efficient Dishwashers</b> Specify and install water-efficient dishwashers that use <= 11 L (2.91 gal) per normal wash cycle or if dishwashers are available only as an option, specify and offer only models complying with this credit.	1		1				
WE	2.3	<b>Most Efficient Clothes Washers</b> Specify and install Energy Star clothes washers listed as "Most Efficient" for current year, or if washers are available only as an option, specify and offer only models complying to this standard.	2		2				
WE	2.4	<b>Water Use Reduction Package</b> Additional credit for achieving credits: WE 1.1, WE 2.1, WE 2.2 and WE 2.3.	2		2				
<b>WE 3 WATER METERING</b>				5	0	0	0	5	
WE	3.1	<b>Domestic Hot Water Metering</b> In units with central hot water, provide individual domestic hot water metering.	3					3	
WE	3.2	<b>Domestic Cold Water Metering</b> Provide individual cold water meters for all units.	2					2	



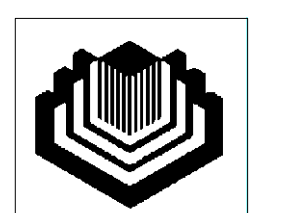
Performance Category: Energy & Atmosphere (EA)						
The intent of the Energy & Atmosphere category IS to reduce depletion of non-renewable energy resources and to reduce environmental impacts of their energy use, particularly emissions of local, regional and global air pollutants.						
		<b>P</b>	<b>Cur</b>	<b>Y</b>	<b>Mb</b>	<b>N</b>
		<b>Score: 52</b>	<b>0</b>	<b>16</b>	<b>7</b>	<b>29</b>
<b>EA MANDATORY</b>						
EA	M1	<b>Minimum Roof Insulation</b> Design the roof assembly with a minimum insulation value of R-40 h-ft2.oF/Btu (7.04 °K-m2/W) for buildings with attic space and R-28 h-ft2.oF/Btu (4.93 °K-m2/W) for cathedral ceilings/flat roofs.	M	M		
EA	M2	<b>Minimum Exterior Wall Insulation</b> Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h-ft2.oF/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h-W-oF/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls.	M	M		
EA	M3	<b>Minimum Floor Insulation</b> Design floors above non-heated parkade areas with a minimum insulation value of R-30 h-ft2.oF/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h-ft2.oF/Btu (2.75 °K-m2/W) for slab floors.	M	M		
EA	M4	<b>Energy Efficient Windows</b> Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft2.. OF (2.0 W/m2.. OK for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft2.. OF (2.55 W/m2.. OK) for metal framed windows.	M	M		
EA	M5	<b>Minimum Boiler Efficiency</b> Specify and install boilers with a minimum thermal efficiency of 84% IAFUE of minimum 90% or heat using District Energy.	M	M		
EA	M6	<b>Domestic Hot Water</b> Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler) or heat domestic hot water using District Energy.	M	M		
EA	M7	<b>Energy Star Dishwashers and Refrigerators</b> Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.	M	M		
EA	M8	<b>Programmable Thermostats</b> Specify and install programmable thermostats for at least the largest heating zone in each unit.	M	M		
EA	M9	<b>Common Area Lighting</b> Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas.	M	M		
EA	M10	<b>Parkade and Corridor Lighting Controls</b> Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied.	M	M		
EA	M11	<b>District Energy</b> Design the building to be either connected to the District Energy System or District Energy compatible in accordance with "District Energy at UTown@USC Design Guide for Compatibility with District Energy, April 30, 2013".	M	M		

<b>EA ENERGY EFFICIENT TARGETS</b>		<b>34</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>28</b>
EA	<b>Gold Mandatory</b> Design the building to meet a maximum EUI of 160 kwh/m2/yr, demonstrated using the USC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Gold.	6		6		
EA	<b>Gold+ Gold Plus</b> Design the building to meet a maximum EUI of 140 kwh/m2/yr, demonstrated using the USC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Gold Plus.	8				8
EA	<b>Plat Platinum</b> Design the building to meet a maximum EUI of 120 kwh/m2/yr, demonstrated using the USC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Platinum.	10				10
EA	<b>Plat+ Platinum Plus</b> Design the building to meet a maximum EUI of 105 kwh/m2/yr, demonstrated using the USC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Platinum Plus.	10				10
<b>EA1 ENERGY METERING</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
EA	<b>1.1 Thermal Energy Sub-Metering</b> Provide separate metering in individual units for measuring thermal energy consumption used for space heating.	1				1
<b>EA2 RENEWABLE ENERGY</b>		<b>9</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>
EA	<b>2.1 Future Renewable Electricity</b> Pre-wire buildings and provide installation space for future use of photovoltaic technologies or other renewable electricity generation.	1		1		
EA	<b>2.2 Renewable Electricity Utilization</b> Utilize photovoltaic technologies or other renewable electricity generation for a portion of the building's electrical supply.	3			3	
EA	<b>2.3 Low-Carbon District Energy Utilization</b> Utilize low carbon, renewable energy through connect to the District Energy System for the building's thermal energy supply (or be District Energy compatible).	5		5		
<b>EA3 COMMISSIONING</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>
EA	<b>3.1 Commissioning</b> Contract a third party Commissioning Authority to develop + implement a commissioning plan for all major building energy systems and verify they are installed, calibrated and perform according to design intent.	4			4	
<b>EA4 AIR TIGHTNESS</b>		<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>
EA	<b>4.1 Building Envelope Airtightness</b> The building envelope shall be constructed so that the air change rate is not greater than 3.5ACH50 when measured in accordance with CAN/CGSB-149.15-M86 (Determination of the airtightness of Building envelopes by the Fan Depressurization Method.)	2		2		
<b>EA5 ENERGY MODELLING</b>		<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>
EA	<b>5.1 Energy Modeling Workshop</b> Model the energy performance of the building and hold a workshop with the design team, a representative from Campus sustainability and contractor to evaluate the results and optimize the design of the building.	2		2		



Performance Category: Materials & Resources (MR)						
The intention of the Materials and Resources category is to encourage design strategies that reduce and reuse material resources, reduce construction waste, and to select building materials that are environmentally preferable.						
		P	Cur	Y	Mb	N
		Score: 18	0	1	8	9
<b>MR1 RECYCLED CONTENT AND REUSED MATERIALS</b>		6	0	1	0	5
MR	<b>1.1 Reused Building Materials</b> Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building materials.	2				2
MR	<b>1.2 Reused Building Materials</b> Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.	2				2
MR	<b>1.3 Recycled Content Materials</b> Specify and use building materials with the following recycled content levels: 1. Common area carpet with minimum 25% recycled content 2. Drywall with min. 15% recycled content 3. Batt insulation with min. 40% recycled content 4. Doors contain min. 15% recycled material 5. Concrete with min. 20% fly ash content, excluding suspended slabs 6. Concrete with min. 40% fly ash content, excluding suspended slabs 7. Cabinetry with min. 20% recycled content 8. MDF products with min. 50% recycled content  o Minimum four recycled content items on list above - 1 point o All eight recycled content items on list above - 2 points	2		1		1
<b>MR2 REGIONAL MATERIALS</b>		2	0	0	2	0
MR	<b>2.1 Regionally Manufactured Building Materials</b> Use a min. of 20% (by value) of building materials and products that are assembled or manufactured within a radius of 800 km (500 miles).	1			1	
MR	<b>2.2 Regionally Sourced Building Materials</b> Of the materials from Credit MR 2.1, use a min. of 50% (by value) of building materials and products that are extracted, harvested or recovered (as well as assembled or manufactured) within a radius of 800 km (500 miles).	1			1	
<b>MR3 CERTIFIED AND NON-ENDANGERED FOREST PRODUCTS</b>		6	0	0	2	4
MR	<b>3.1 Dimensional Lumber and Plywood</b> Demonstrate that a min. of 50% of the total value of dimensional lumber and plywood is certified in accordance with either: o CSA2809 - 2 Points o Or Forest Stewardship Council (FSC) - 3 Points	3			2	1
MR	<b>3.2 Hardwood Floors</b> Specify and install hardwood or bamboo flooring that is certified in accordance with the Forest Stewardship Council or CSA 2809. If floors are offered only as an option, specify and offer only bamboo or renewable products with third-party certification. o CSA2809 - 2 Points o Or Forest Stewardship Council (FSC) - 3 Points	3				3

MR4 BUILDING PRODUCT - INGREDIENTS		4	0	0	4	0
MR	<b>4.1 Transparency of Ingredients</b> Install ten different building products from three different manufacturers that demonstrate the chemical inventory of the product to an accuracy of 0.1 % for each product. For each product selected provide either: • Health Product Declaration (HPD) • Manufacturers Inventory of all ingredients by CAS number, or • Declare Label (Living Building Institute)	2			2	
MR	<b>4.2 Optimization of Ingredients</b> Demonstrate that a minimum of 10% (by value) of building materials are optimized for ingredient content by demonstrating optimization in one of the following ways: • GreenScreen v1.2 benchmark 1 minimum • Red List free • Free of ingredients listed on REACH Authorization + Candidate List	2			2	



Performance Category: Indoor Environmental Quality (IEQ)								
The intention of the Indoor Environmental Quality category is to achieve enhanced indoor environmental quality through the thoughtful selection and application of materials and effective ventilation strategies.								
				P	Cur	Y	Mb	N
				Score: 8	0	8	0	0
<b>IEQ MANDATORY</b>								
IEQ	M1	<b>Adhesives and Sealants</b> Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.		M		M		
IEQ	M2	<b>Paints and Coatings</b> Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.		M		M		
IEQ	M3	<b>Carpet</b> Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the EcoLogo.		M		M		
IEQ	M4	<b>Ventilation Effectiveness</b> Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.		M		M		
<b>IEQ1 LOW-EMITTING MATERIALS</b>				8	0	8	0	0
IEQ	1.1	<b>Low VOC Paints and Coatings</b> Specify and use paints and coatings rated at a minimum GPS-2 by the Master Painter's Institute on the interior of the building.	2			2		
IEQ	1.2	<b>Low-Emitting Composite Wood Products</b> Specify and install interior composite wood products, such as flooring, doors, trim, etc., that have no added urea formaldehyde. Cabinetry is excluded from this credit.	2			2		
IEQ	1.3	<b>Low-Emitting Insulation</b> Specify and install formaldehyde-free insulation on the interior of the building.	2			2		
IEQ	1.4	<b>Low-Emitting Cabinetry</b> Specify and install interior cabinetry (doors, boxes, counters and laminating adhesives) that contain no added urea formaldehyde.	2			2		
<b>Performance Category: Construction (CON)</b>								
The construction process can impose significant and lasting impact on the ecology of both the site and beyond. The construction credits acknowledge and reward contractors who have followed best practice.								
				P	Cur	Y	Mb	N
				Score: 4	0	2	2	0
<b>CON MANDATORY</b>								
CON	M1	<b>Staging and Construction</b> Prepare and implement a Staging and Construction Plan, including alternate detour information and signage for pedestrians and cyclists.		M		M		
CON	M2	<b>Vegetation Safeguards and Land-Clearing Debris</b> Prepare a site plan showing the sizes and locations of vegetation to be removed, retained and salvaged, including plants located on adjacent public rights-of-way (see reference guide) <b>AND</b> develop a plan to effectively handle debris from land clearing and divert it from landfill disposal.		M		M		
CON	M3	<b>Truck Management Plan</b> Prepare and implement a comprehensive truck management plan for the project that conforms to the <i>UBC Strategic Transportation Plan</i> and the <i>Neighbourhood Plan Development Guidelines</i> .		M		M		
CON	M4	<b>Wheel Wash</b> Provide a wheel wash for vehicles leaving the site <b>OR</b> a street cleaning program and catch basin protection.		M		M		
CON	M5	<b>Erosion and Sedimentation Control</b> Prepare and implement a Site Sediment and Erosion Control Plan that conforms to <i>Best Management Practices Guide for Stormwater: Appendix H – Construction Site Erosion and Sediment Control Guide</i> (GVS&DD, October 1999).		M		M		

Performance Category: Innovation & Design Process (ID)								
The intent of the Innovation and Design Process category is to provide incentive and credit for general design and other innovative practices that improve the overall sustainability and environmental performance of the project.								
				P	Cur	Y	Mb	N
				Score: 24	0	9	7	8
<b>CON WASTE MANAGEMENT PLAN</b>								
CON	M6	<b>Waste Management Plan</b> Prepare and implement a waste management plan that diverts 75% (by weight) of construction and demolition waste from landfill.		M		M		
<b>CON1 CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN</b>								
CON	1.1	<b>Indoor Air Quality Management Plan</b> Prepare and implement an Indoor Air Quality (IAQ) Management Plan for the construction and pre-occupancy phases of the building.	2			2		
CON	1.2	<b>Flushout / IAQ Test</b> After construction ends and prior to occupancy conduct a minimum two-week continuous building flushout with new filtration media at 100% outside air or conduct a Baseline Indoor Air Quality Test.	2				2	
<b>ID MANDATORY</b>								
ID	M1	<b>Goal-Setting Workshop</b> Hold a green building workshop or Design Charrette including the developer, design consultants and contractor to review and develop the strategies for achieving the development's goals and priorities relevant to the Residential Environmental Assessment Program.		M		M		
ID	M2	<b>Educate the Homeowner</b> Develop a homeowner's manual that promotes sustainable behavior and describes all of the sustainable features of the project instructing the homeowner on their proper use. This manual should be included in record drawings or some form that will be accessible beyond the first generation of owner/resident.		M		M		
<b>ID1 INNOVATION IN MATERIALS</b>								
ID	1.1	<b>Life-Cycle Assessment</b> Perform a Life-Cycle Assessment of the project's structure and enclosure and demonstrate a minimum of 5% improvement from a reasonable baseline building for three environmental categories.	4					4
<b>ID2 INTEGRATIVE AND UNIVERSAL DESIGN</b>								
ID	2.1	<b>Green Building Specialist</b> Engage an expert in green buildings and sustainable construction practices to provide advice on effective green building strategies to the design team.	1			1		
ID	2.2	<b>Design for Safety and Accessibility</b> Demonstrate that at least 25% of the units in the building have been designed to meet the intent of SAFERhome standards which address issues of accessibility, children's safety, seniors and aging in place.	1				1	
ID	2.3	<b>Design for Security and Crime Prevention</b> Demonstrate that the design has been reviewed by an accredited Crime Prevention Through Environmental Design (CPTED) practitioner	2				2	
<b>ID3 MARKET TRANSFORMATION</b>								
ID	3.1	<b>Educate the Sales Staff</b> Develop marketing materials based on the environmental performance of the project and ensure that the sales staff is knowledgeable about the green building features.	1			1		
<b>ID4 ACADEMIC LINKS</b>								
ID	4.1	<b>Enhance Research or Further Student Development</b> Collaborate with UBC students and/or faculty on a research project or other opportunities to enhance the academic mission of the University and integrate it with the community. The research project should be concurrent with, and applicable to, the current project.	5			5		
ID	4.2	<b>Energy Data Sharing</b> Incorporate a data sharing agreement into the sales contracts or strata constitution that allows building aggregate energy data to be collected for use by the UBC Campus Sustainability.	4					4



ID5 INNOVATIVE DESIGN		6	0	2	4	0
ID	5.1 <b>Innovative Design Strategy or Exemplary Achievement</b> Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2		2		
ID	5.2 <b>Innovative Design Strategy or Exemplary Achievement</b> Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2			2	
ID	5.3 <b>Innovative Design Strategy or Exemplary Achievement</b> Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2			2	
		<b>P</b>		<b>Cur</b>		
		TOTAL	134	0	54	24 56

Gold	45
Gold Plus	61
Platinum	76
Platinum Plus	101





3 Issue for AUDP/DP	9/22/15
2 Issue for DP	9/21/15
1 Issue for AUDP	1/27/15
Revision No.	Date

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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Cover Plan**

Project North:	Drawn By:	JW
	Checked By:	MP
Scale:	Job No.:	14-061
		1" = 20'0"

Sheet No.:  
**L0.0**



**Drawing Legend:**

	Granite faced Wall
	Granite clad Column
	Concrete Wall/Edger
	Gravel Strip
	Tactile Strip
	Wall Mounted Bench
	Boulders
	Water Feature Bubbler
	Charcoal Porcelain Tile Bottomed Water Feature
	Mexican Black Rock Bottomed Water Feature
	Step Light
	Column Light
	Pond Light
	Guard Rail

**Detail Key Legend:**

	Entry Paving		Guard Rail
	Hydrapressed Paving		Unit Entry Column and Gate
	Concrete Paving		Bike Rack
	Unit Pavers		Bench
	Concrete Planter Wall		Courtyard Trellis
	Granite Clad Wall		Entry Trellis

4	Issue for AUDP/DP	9/22/15
3	Issue for DP	1/27/15
2	Issue for AUDP	1/27/15
1	Issue for Preliminary DP	10/30/14
Revision No.		Date

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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Layout Plan**

Project North:	Drawn By:	JW
	Checked By:	MP
Scale:	Job No.:	14-061
1" = 20'0"		
Sheet No.:		

**L1.0**





**Grading Legend:**

FFE 79.12	Finish Floor Elevation
+77.15	Finish Grade Elevation
+TW76.60	Top of Wall Elevation
+BW79.17	Bottom of Wall Elevation
+TC79.27	Top of Curb Elevation

3 Issue for AUDP/DP	9/22/15
2 Issue for DP	1/27/15
1 Issue for AUDP	1/27/15
Revision No.	Date

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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Grading Plan**

Project North:	Drawn By:	JW
	Checked By:	MP
Scale:	Job No.:	14-061
		1" = 20'0"
Sheet No.:		

**L1.1**



ID	Qty.	Botanical Name	Common Name	Sched.	Size	Remarks
<b>Trees</b>						
Acc	23	<i>Acer circinatum</i>	Vine Maple		2m ht	multi-stemmed
AccP	2	<i>Acer palmatum</i>	Japanese Maple		6cm cal	
CJ	13	<i>Cardiophyllum japonicum</i>	Katsura Tree		6cm cal	
Ck	7	<i>Cornus kousa</i>	Kousa Dogwood		6cm cal	
CkS	4	<i>Cornus kousa 'Satomi'</i>	Satomi Dogwood		6cm cal	WB, specimen grade
HIA	2	<i>Hamamelis x intermedia 'Arnold Promise'</i>	Arnold Promise Witch Hazel		#15 pot	On Std., Specimen grade
MB	8	<i>Magnolia 'Betty'</i>	Girl Magnolia		6cm cal	WB, tree form, low branching
StP	16	<i>Stewartia pseudocamellia</i>	Japanese Stewartia		6cm cal	WB
StJ	1	<i>Styrax japonicus</i>	Japanese Snowbell		6cm cal	Single Trunk
	0					
<b>Shrubs</b>						
AiD	16	<i>Astilbe japonica 'Deutschland'</i>	False Spirea		#1 pot	
BIR	62	<i>Berberis thunbergii 'Rose Glow'</i>	Rose Glow Japanese Barberry		#2 pot	
BS	77	<i>Buxus x sempervirens 'Green Velvet'</i>	Green Velvet Boxwood		#2 pot	
CIV	44	<i>Ceanothus thyrsiflorus 'Victoria'</i>	Victoria Lilac		#5 pot	
Ct	17	<i>Choisya ternata</i>	Mexican Orange		#5 pot	
CsC	17	<i>Cornus sanguinea 'Cato'</i>	Arctic Sun™ Red Twig Dogwood		#2 pot	
DoA	19	<i>Daphne odora 'Aureo-marginata'</i>	Variiegated Winter Daphne		#2 pot	
HoT	11	<i>Hydrangea paniculata 'Tardiva'</i>	Tardiva Panicle Hydrangea		#3 pot	
JSB	67	<i>Juniperus squamata 'Blue Star'</i>	Blue Star Juniper		#3 pot	
LFS	90	<i>Leucothoe fontanesiana 'Zebild'</i>	Scarletta Leucothoe		#2 pot	syn. Leucothoe font. 'Scarletta'
MmC	8	<i>Mahonia x media 'Charity'</i>	Hybrid Mahonia		#5 pot	
NdH	79	<i>Nandina domestica 'Harbour Dwarf'</i>	Heavenly Bamboo		#3 pot	
PI	2	<i>Pieris japonica little heart</i>	Dwarf Pieris		#3 pot	
PoG	19	<i>Physocarpus opulifolius 'Dart's Gold'</i>	Dart's Gold Ninebark		#3 pot	
PIO	69	<i>Prunus laurocerasus 'Otto Luyken'</i>	Otto Luyken Laurel		#3 pot	
RBB	102	<i>Rhododendron 'Bow Bells'</i>	Bow Bells Rhododendron		#3 pot	
RLD	47	<i>Rhododendron 'Lemon Dream'</i>	'Lemon Dream' Rhododendron		#3 pot	
RSL	42	<i>Rhododendron 'Snow Lady'</i>	Snow Lady Rhododendron		#3 pot	
RU	34	<i>Rhododendron 'Unique'</i>	Unique Rhododendron		#3 pot	
Rw	27	<i>Rhododendron williamsianum</i>	Rhododendron		#5 pot	
Rq	23	<i>Rosa glauca</i>	Red Leaf Rose		#2 pot	bushy, 600mm ht. min.
SpN	2	<i>Salix purpurea 'Nana'</i>	Dwarf Arctic Willow		#2 pot	
Sh	51	<i>Sarcococca hookeriana var. humilis</i>	Dwarf Sweet Box		#2 pot	
Sr	22	<i>Sarcococca ruscifolia</i>	---		#3 pot	---
SJM	14	<i>Spiraea japonica 'Walburna' MAGIC CARPET®</i>	Magic Carpet Spirea		#3 pot	
TbR	23	<i>Taxus baccata 'Repandens' (male form)</i>	Spreading Yew (male form)		#3 pot	Hedge
TmH	64	<i>Taxus x media 'Hicksii' (male form)</i>	Hicksii Yew (male form)		4" ht	Hedge
W	14	<i>Weigela 'Midnight Wine'</i>	Midnight Wine Weigela		#2 pot	
<b>Groundcovers, Vines, Ferns, Perennials and Grasses</b>						
Av	106	<i>Adiantum venustum</i>	Himalayan Maidenhair Fern		#2 pot	
Alm	82	<i>Alchemilla mollis</i>	Lady's Mantle		#1 pot	
BmJ	38	<i>Brunnera macrophylla 'Jack Frost'</i>	Siberian Bugloss		#1 pot	
CoB	63	<i>Campanula poscharskyana 'Blue Waterfall'</i>	Serbian Bellflower		#1 pot	
Cml	152	<i>Carex morrowii 'Ice Dancer'</i>	Variiegated Japanese Sedge		#1 pot	
CoE	204	<i>Carex oshimensis 'Evergold'</i>	Sedge		#1 pot	
Ev	70	<i>Epimedium x versicolor</i>	Barrenwort		#1 pot	
EFG	80	<i>Euonymus fortunei 'Emerald Gaiety'</i>	Emerald Gaiety Wintercreeper		#2 pot	
HmA	34	<i>Hakonechloa macra 'Aureola'</i>	Japanese Forest Grass		#1 pot	
HmW	34	<i>Heilbornia x nigeros 'Winter's Ghost'</i>	Winter's Ghost Heilborn		#1 pot	
HSC	127	<i>Hemerocallis 'Strawberry Candy'</i>	Strawberry Candy Daylily		#1 pot	
HMar	20	<i>Heuchera 'Marmalade'</i>	Marmalade Coral Bells		#1 pot	
HG	55	<i>Hosta 'Guacamole'</i>	Hosta Guacamole		#1 pot	
HJ	6	<i>Hosta 'June'</i>	June Hosta		#1 pot	
HP	2	<i>Hosta 'Praying Hands'</i>	Hosta Praying Hands		#1 pot	
HxE	9	<i>Hosta sieboldiana 'Elegans'</i>	Blue Hosta		#1 pot	
Je	118	<i>Juncus effusus</i>	Common Rush		plug	
LdB	9	<i>Ligularia dentata 'Britt-Marie Crawford'</i>	Black-leaved Ligularia		#2 pot	
Op	26	<i>Ophiopogon planiscapus 'Nigrescens'</i>	Black Mondo Grass		#1 pot	Groundcover
Pt	23	<i>Pachysandra terminalis</i>	Japanese Spurge		#1 pot	Groundcover
PaL	64	<i>Perovskia atriplicifolia 'Lace'</i>	Russian Sage		#1 pot	
Pm	52	<i>Polystichum munitum</i>	Western Sword Fern		#1 pot	
Ps	25	<i>Polystichum setiferum</i>	Soft Shield Fern		#1 pot	
Rpt	42	<i>Rheum palmatum var. tanguticum</i>	Ornamental Rhubarb		#1 pot	
St	22	<i>Stipa tenuissima</i>	Mexican Feather Grass		#1 pot	

4	Issue for AUDP/DP	9/22/15
3	Issue for DP	9/21/15
2	Issue for DP	1/27/15
1	Issue for AUDP	1/27/15
Revision No.		Date

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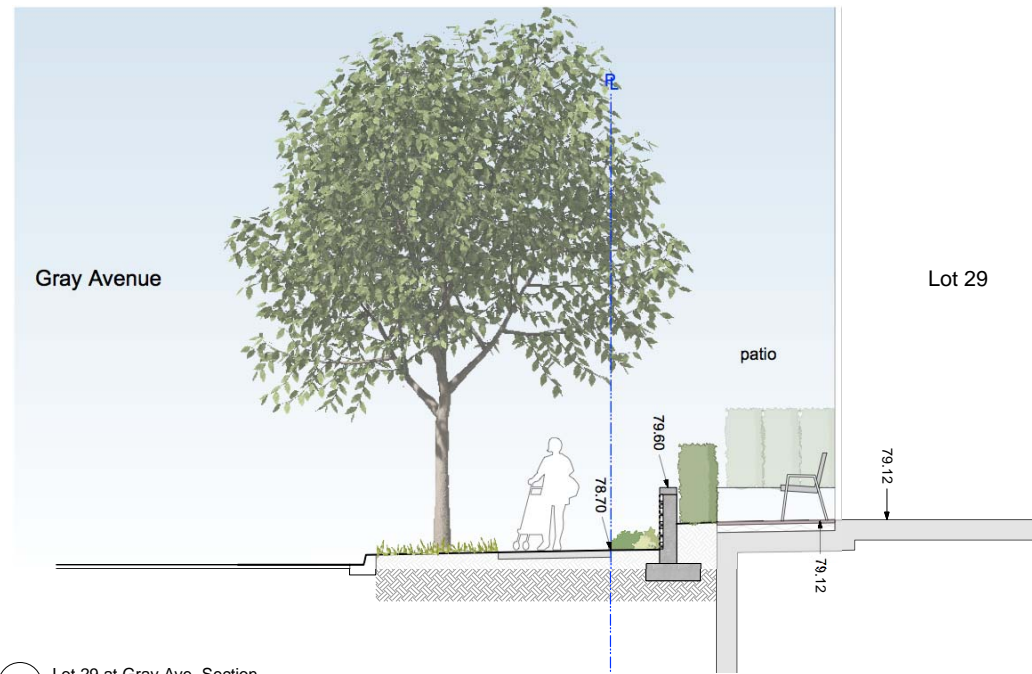
Client: **UBC Properties Trust**

Project Title: **Lot 27 & Lot 29**

Drawing Title: **Planting Plan**

Project North:	Drawn By:	JW
	Checked By:	MP
Scale:	Job No.:	14-061
1" = 20'-0"		
Sheet No.:		

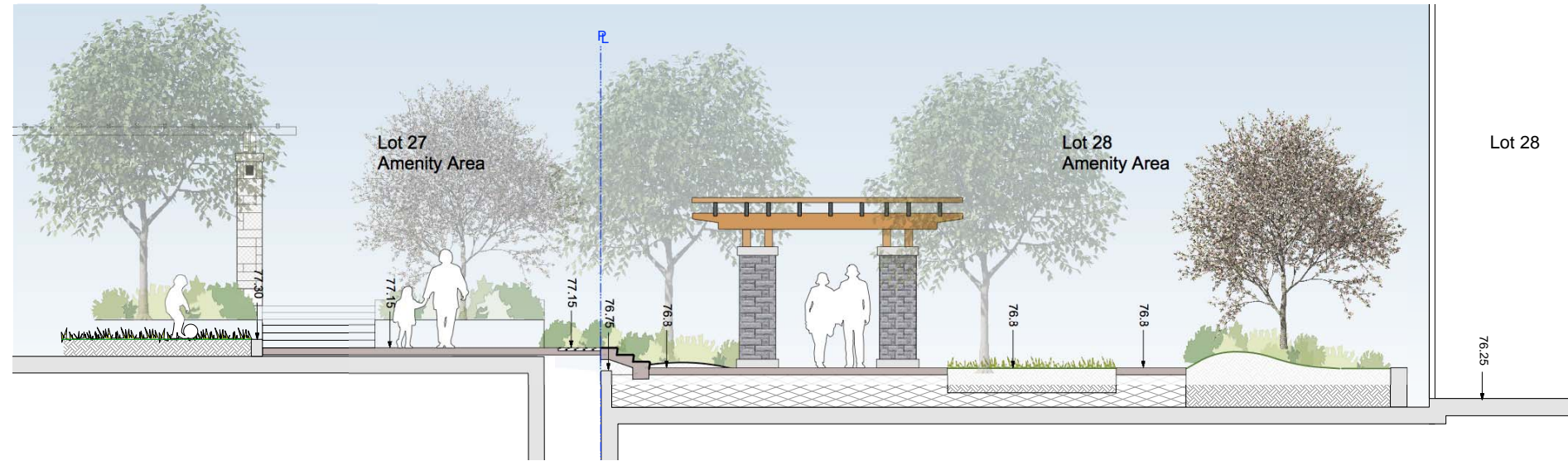
**L2.0**



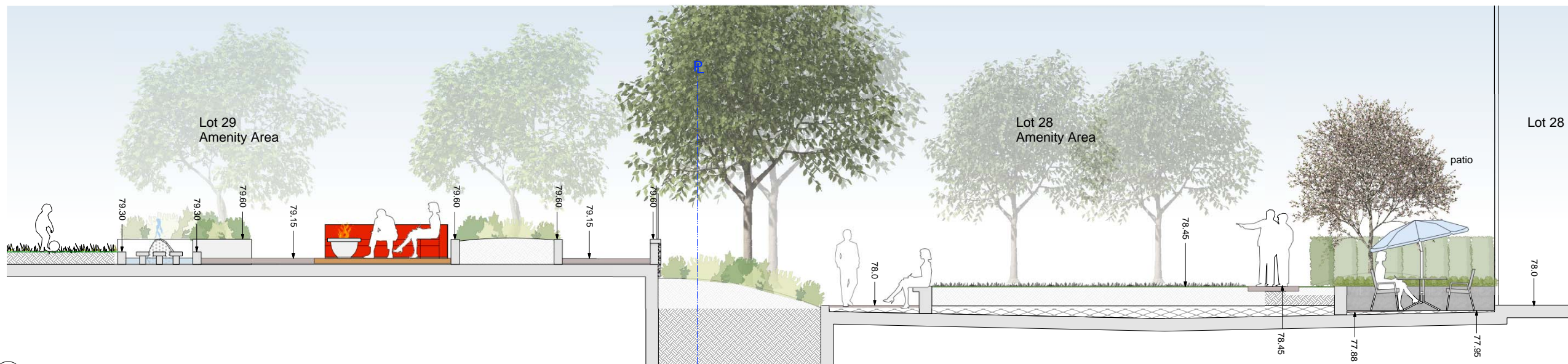
1 Lot 29 at Gray Ave. Section



2 Lot 27 at Ross Drive Section



3 Lot 27 Courtyard to Lot 28



4 Lot 29 Courtyard to Lot 28


4 Issue for AUDP/DP	9/22/15
3 Issue for DP	1/27/15
2 Issue for AUDP	01/27/15
1 Issue for Preliminary DP	10/30/14
Revision No.	Date

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Client:  
**UBC Properties Trust**

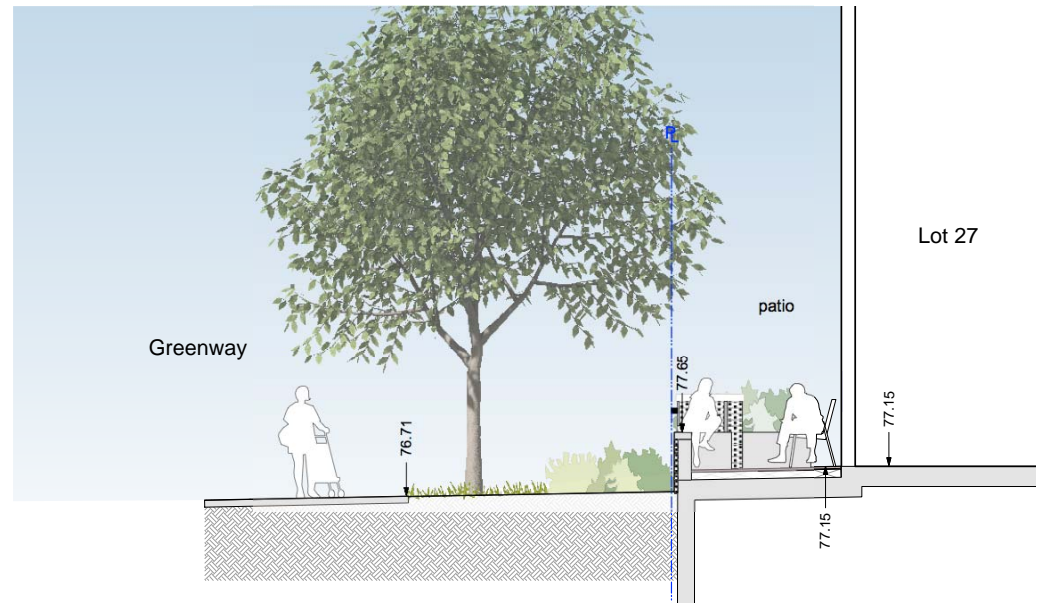
Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Sections**

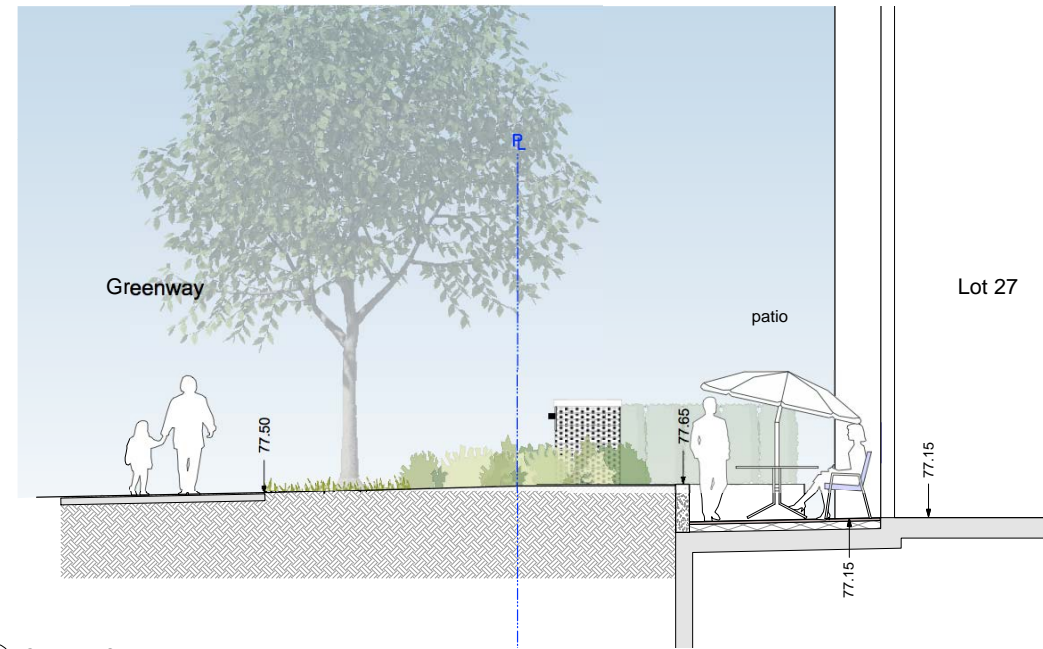
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 Checked By: MP

Scale: 1:50m Job No.: 14-061  
 Sheet No.:

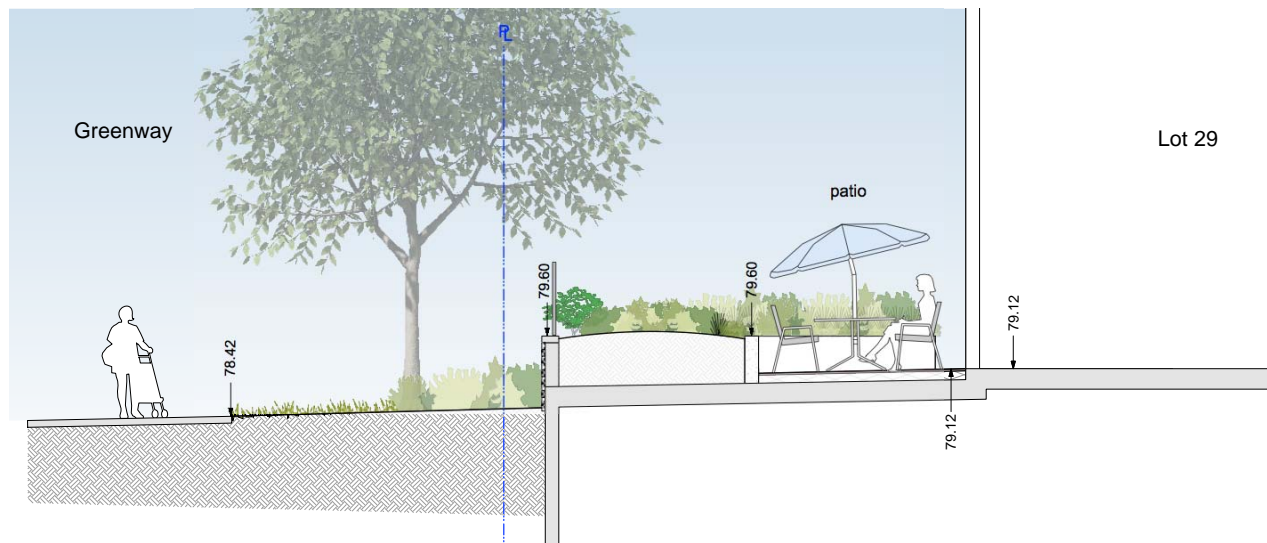
**L3.0**



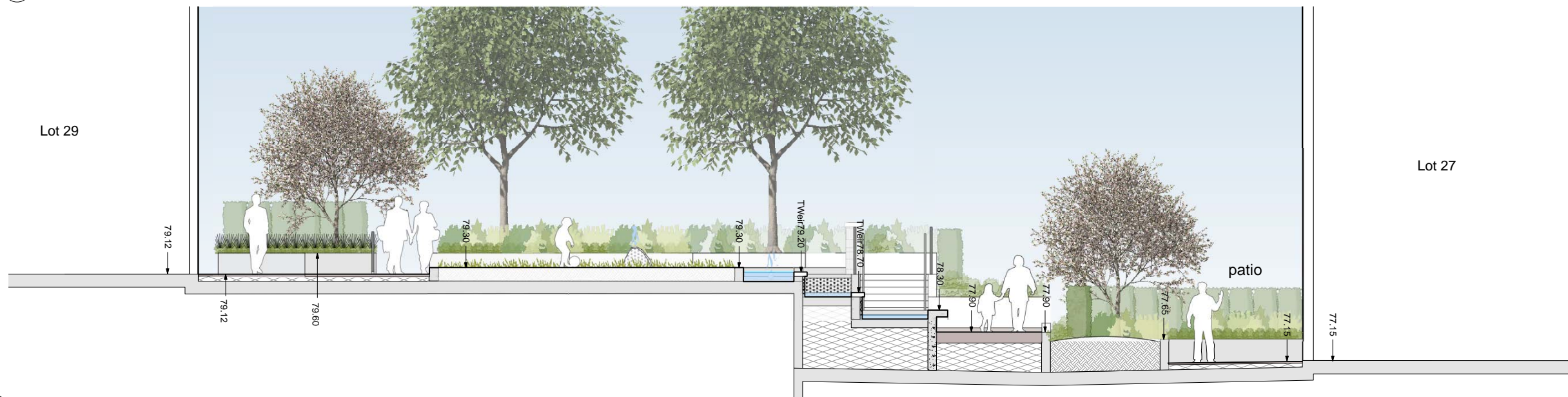
5 Greenway Section to Lot 27



6 Greenway Section to Lot 27



7 Greenway Section to Lot 29



8 Lot 29 Courtyard to Lot 27


3 Issue for AUDP/DP	9/22/15
2 Issue for DP	1/27/15
1 Issue for AUDP	1/27/15
Revision No.	Date

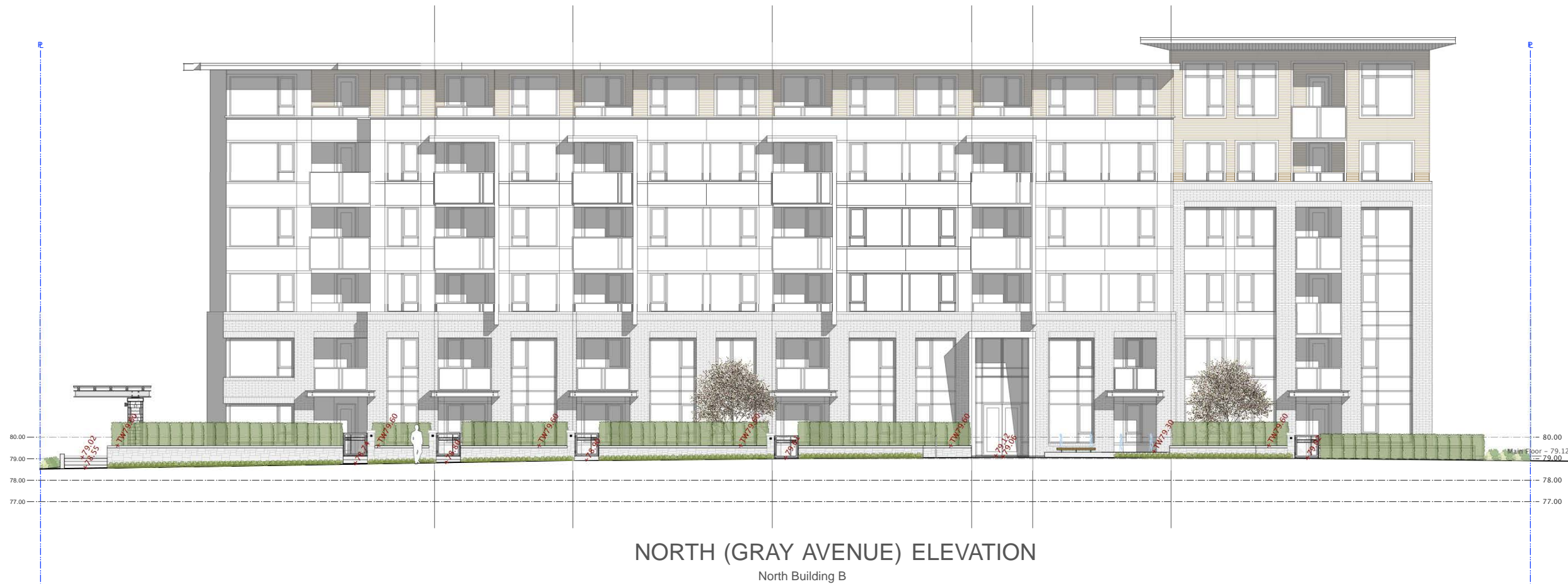
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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Sections**

Project North:  Drawn By: JW  
 Checked By: MP  
 Scale: 1:50m Job No.: 14-061  
 Sheet No.:



**NORTH (GRAY AVENUE) ELEVATION**  
 North Building B



**SOUTH (ROSS DRIVE) ELEVATION**  
 South Building A


3	Issue for AUDP/DP	9/22/15
2	Issue for DP	1/27/15
1	Issue for AUDP	1/27/15
	Revision No.	Date

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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Elevations**

Project North:  Drawn By:  
 Checked By:

Scale: 1:100 Job No.: 14-061  
 Sheet No.:



**WEST ELEVATION**  
 North Building B

**WEST ELEVATION**  
 South Building A


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2	Issue for DP	1/27/15
1	Issue for AUDP	1/27/15
	Revision No.	Date

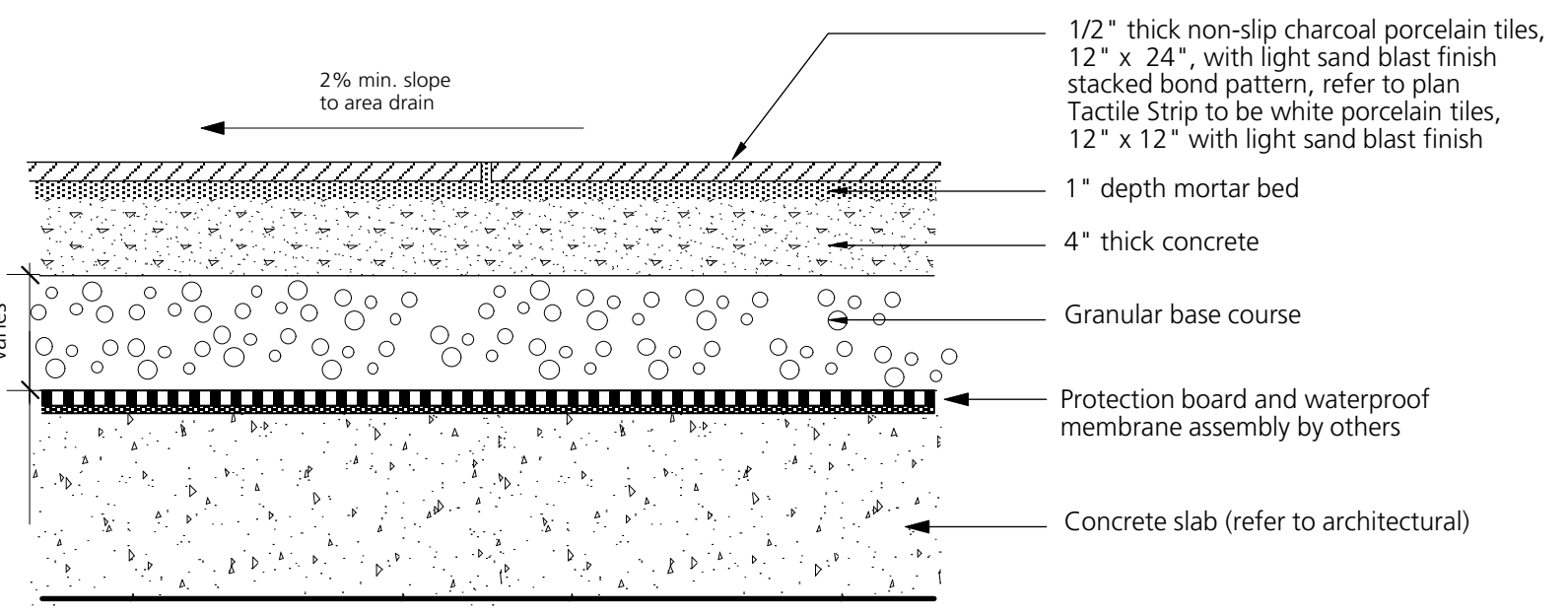
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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

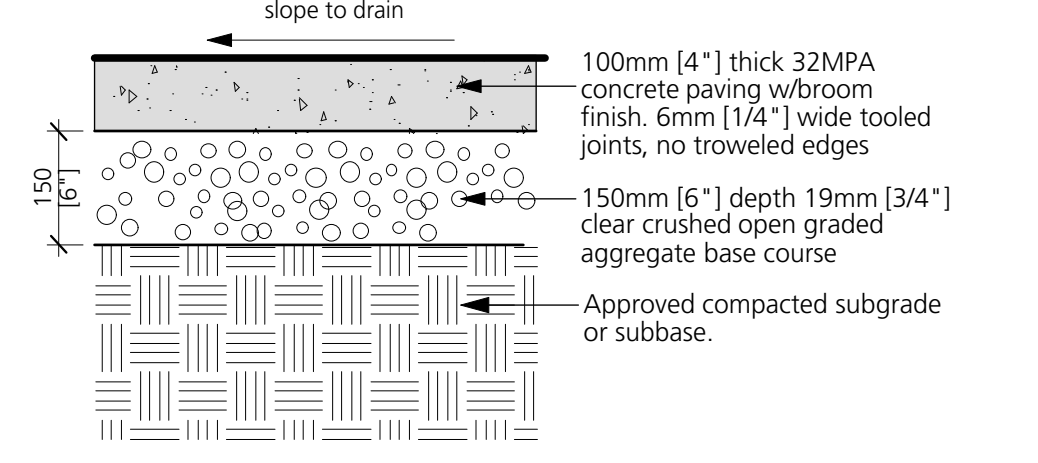
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**Elevations**

Project North:  Drawn By: JW  
 Checked By: MP  
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 Sheet No.:

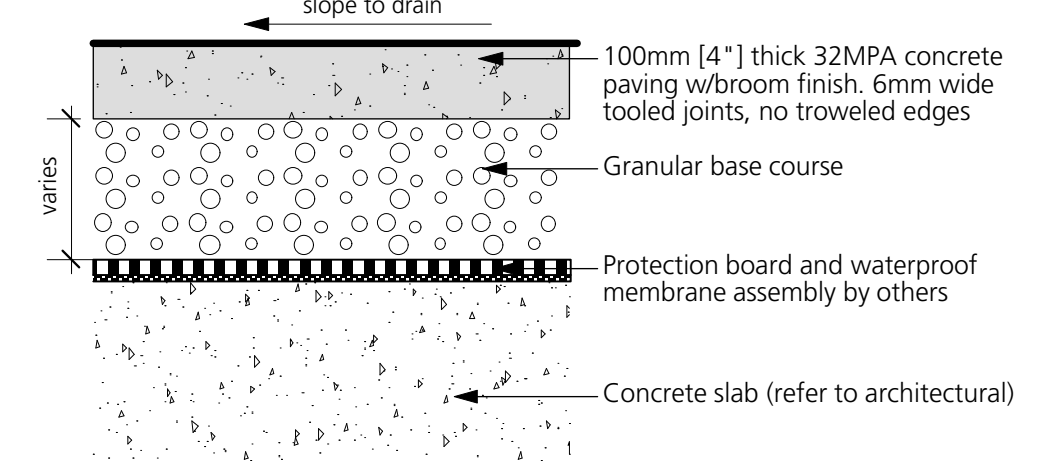


**b) On-Slab**

1  
L5.0  
Entry Paving  
scale: 1:10m

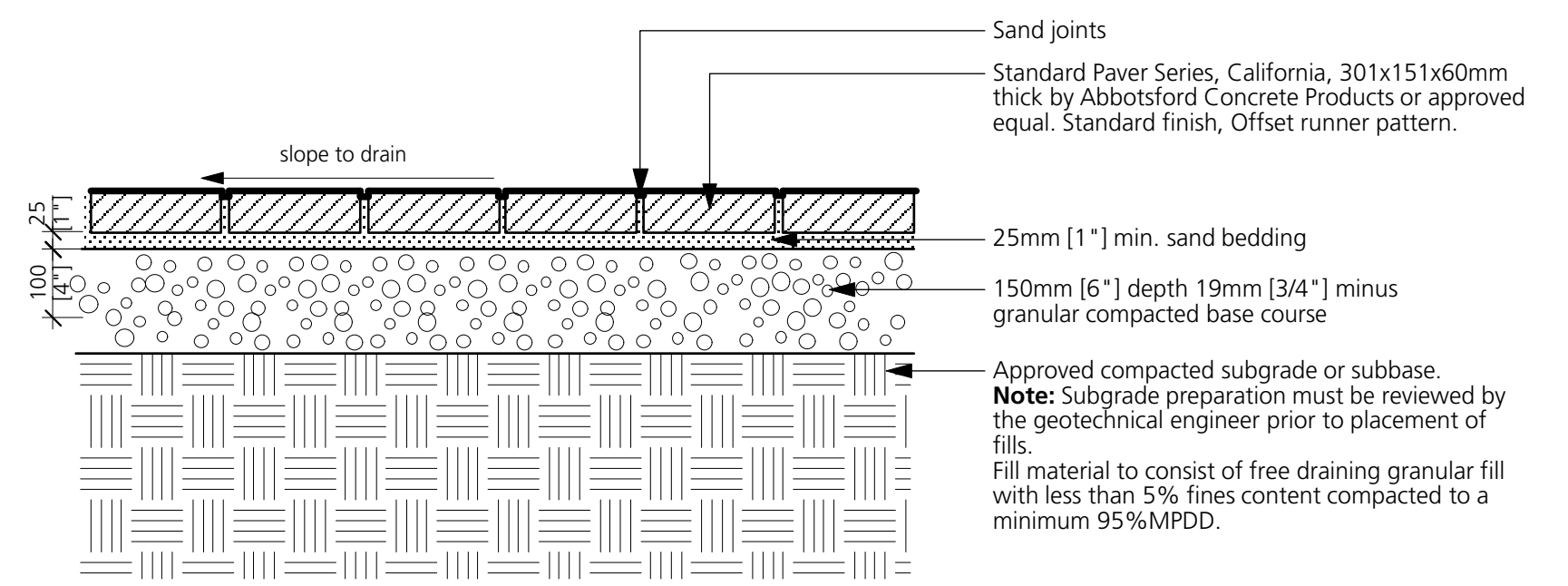


**a) On-Grade**

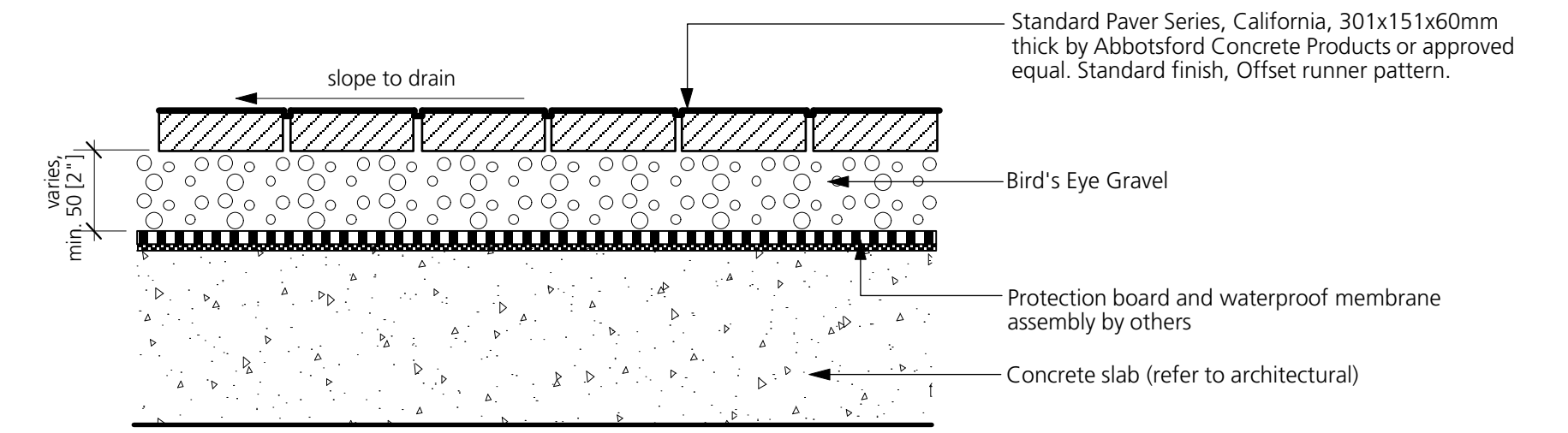


**b) On-Slab**

3  
L5.0  
Concrete Paving- Pedestrian  
scale: 1:10m

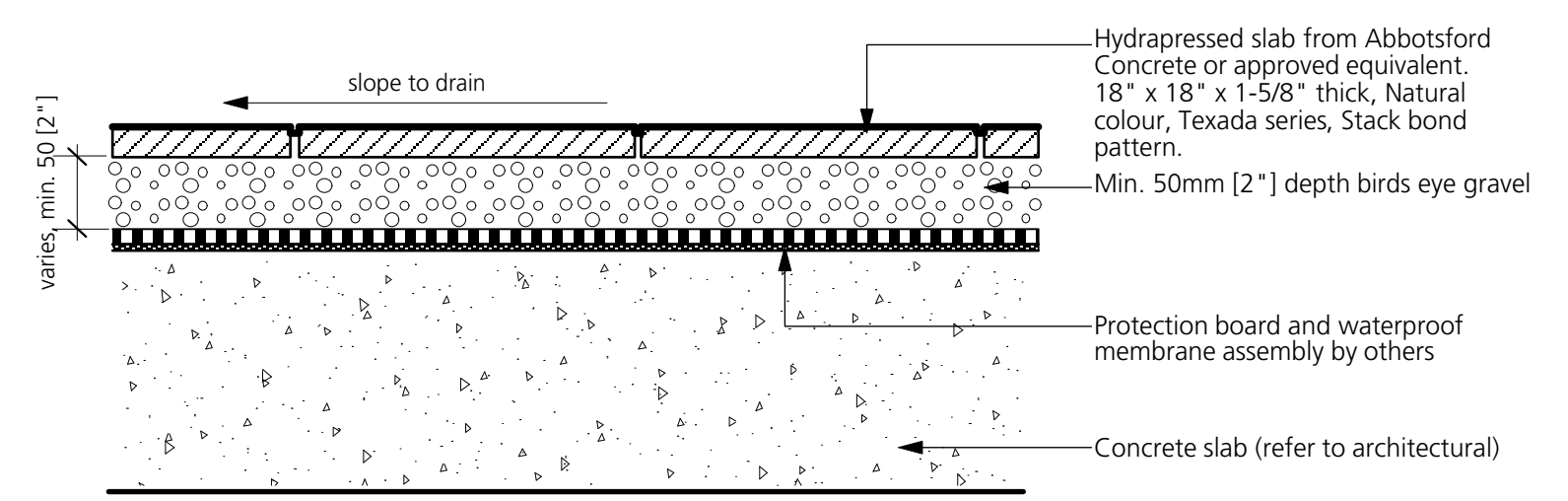


**a) On-Grade**

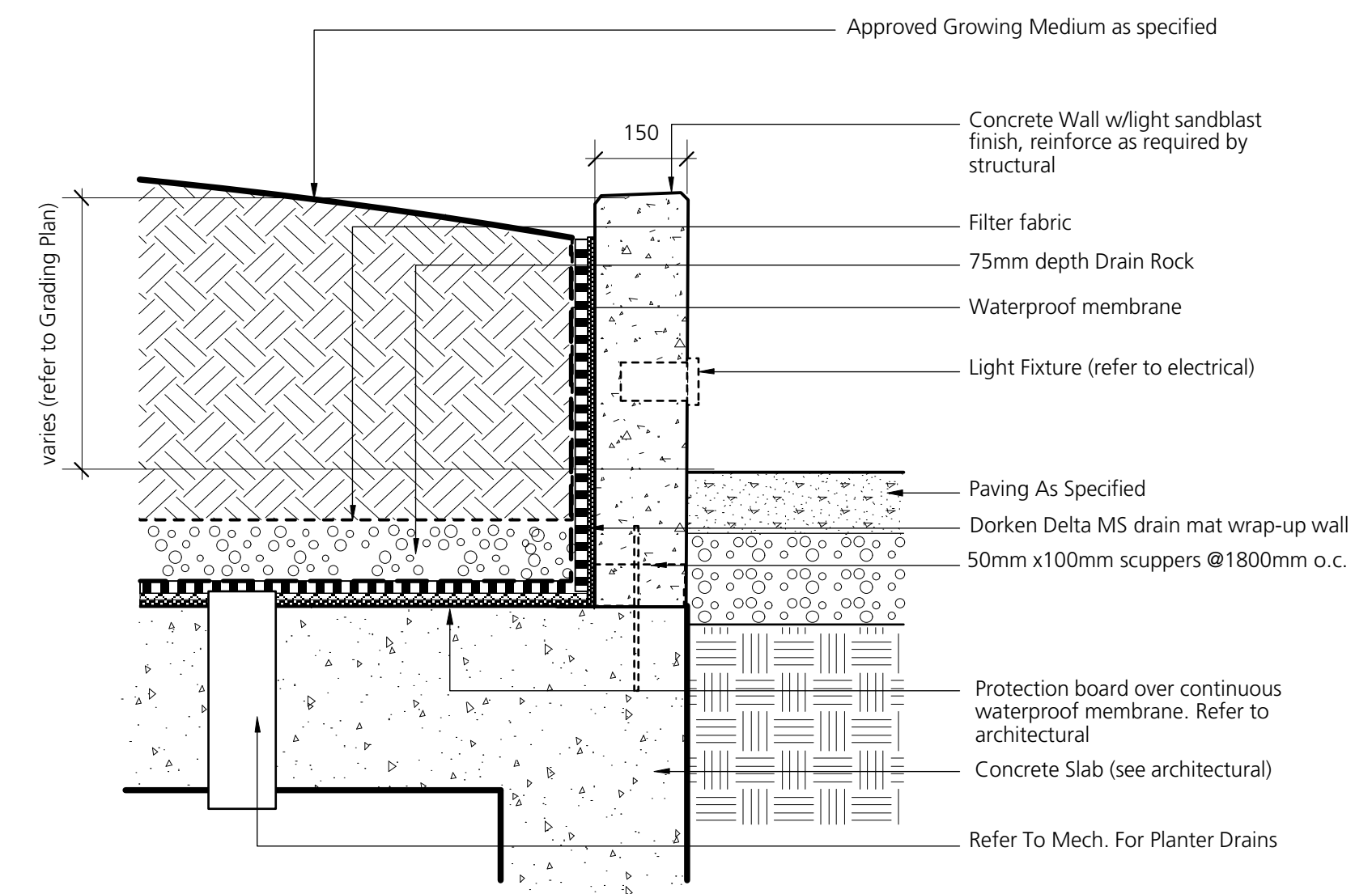


**b) On-Slab**

4  
L5.0  
Unit Paving- Pedestrian  
scale: 1:10m

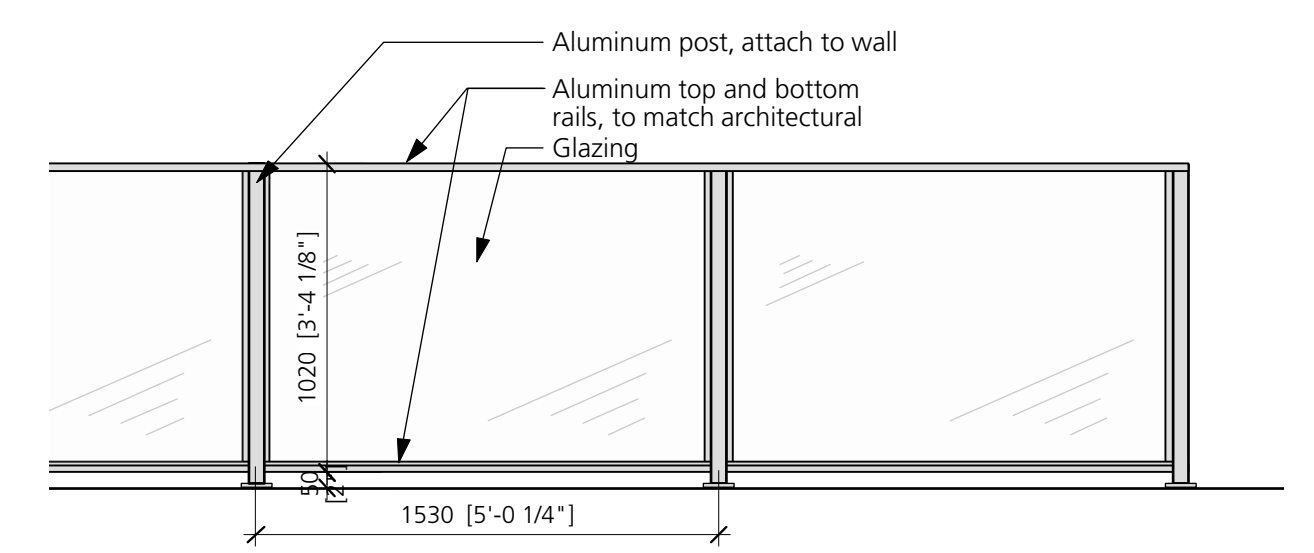


2  
L5.0  
Hydrapressed Paving Slabs  
scale: 1:10m

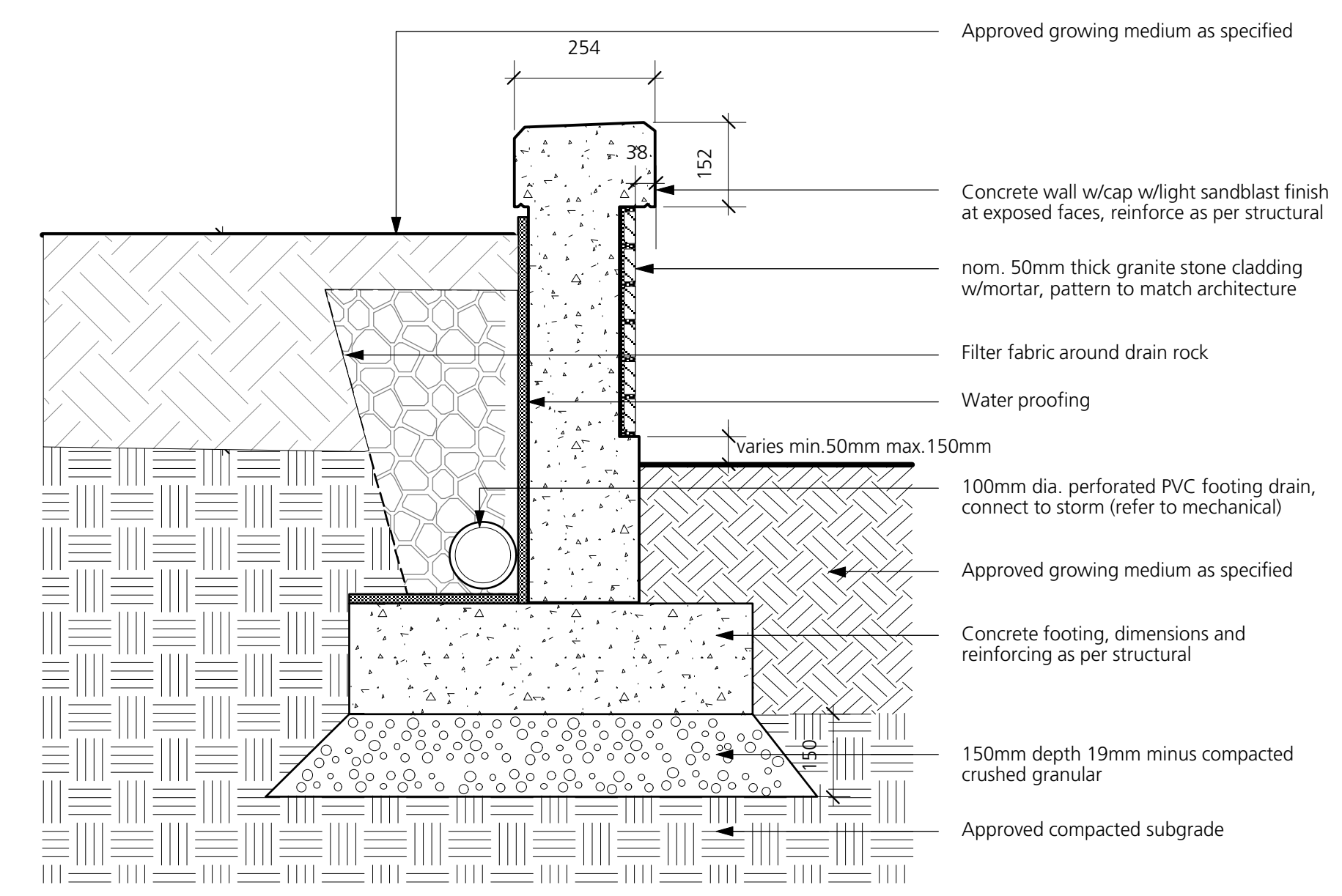


5  
L5.0  
Concrete Planter Wall  
scale: 1:10m

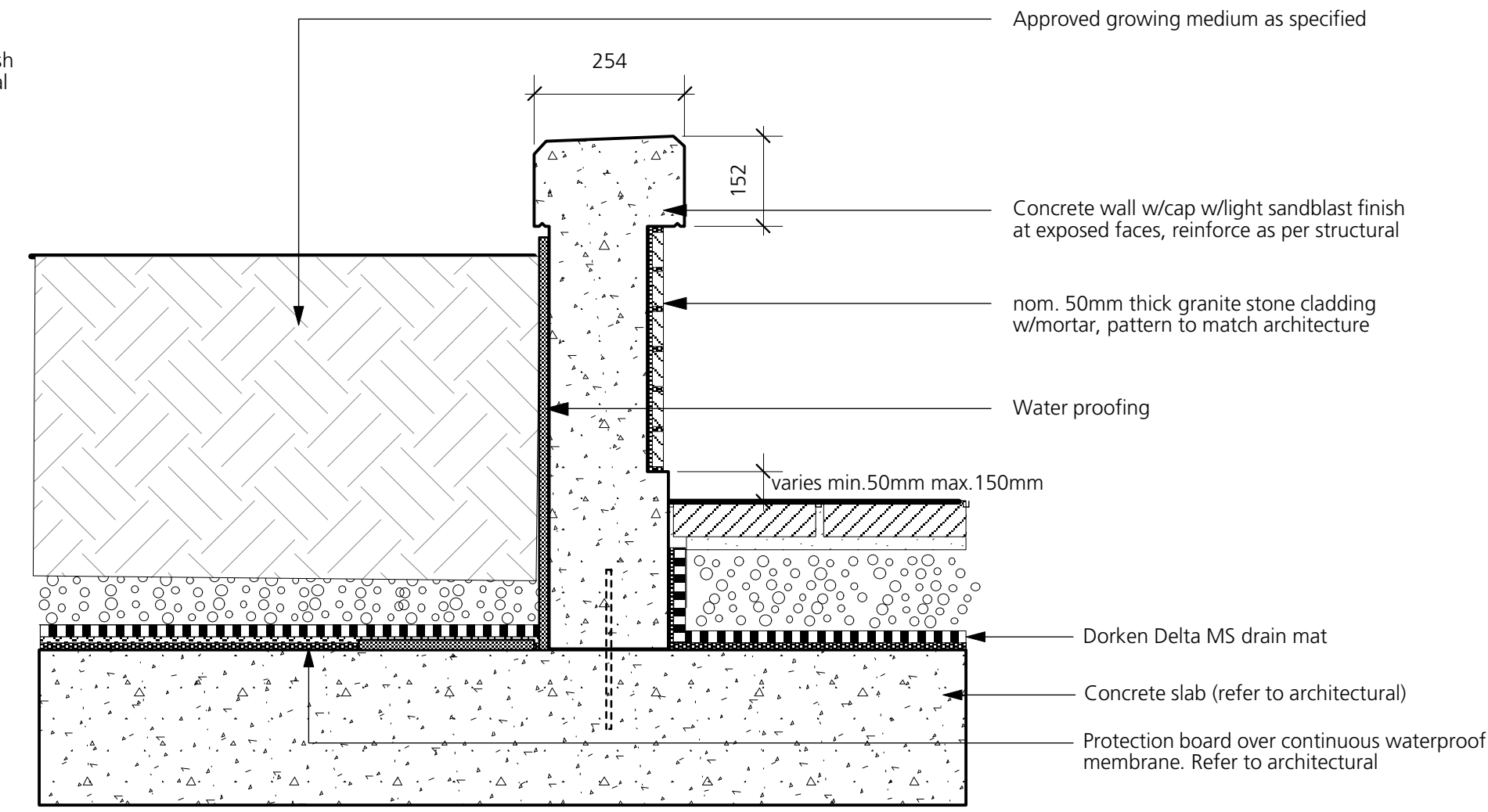
**NOTE:**  
 1. All railings and guards to meet current Building Code.  
 2. Provide engineered shop drawings for review by landscape architect.  
 3. All metal finishes to match architectural.  
 4. Contractor to verify all dimensions before fabrication.  
 5. All welded connections to be ground smooth.



7  
L5.0  
Guardrail  
scale: 1:25m

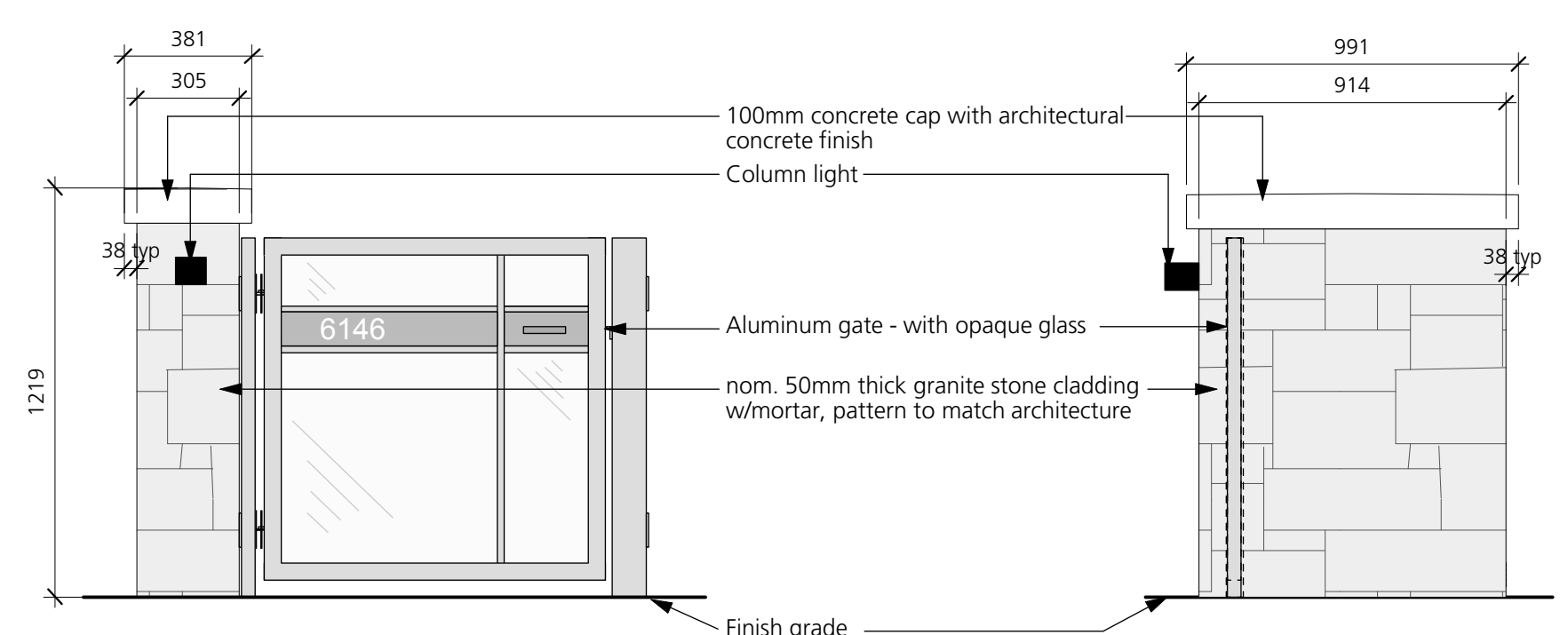


**a) On-Grade**



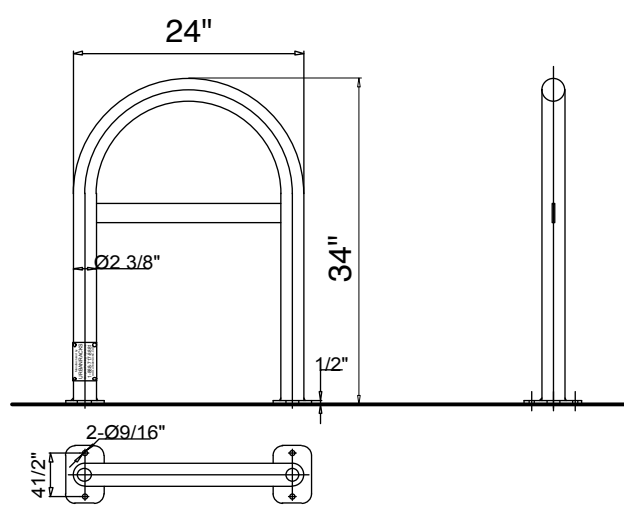
**b) On-Slab**

6  
L5.0  
Granite Clad Wall  
scale: 1:10m



8  
L5.0  
Unit Entry Column and Gate  
scale: 1:20m

Bike Bollards: Urban Staple  
 Colour: UBC Standard Grey RAL 7043  
 Available from Urban Racks  
 www.urbanracks.com  
 1.888.717.8881



9  
L5.0  
Bike Rack  
scale: 1:20m

3 Issue for AUDP/DP	9/22/15
2 Issue for DP	1/27/15
1 Issue for AUDP	1/27/15
Revision No.	Date

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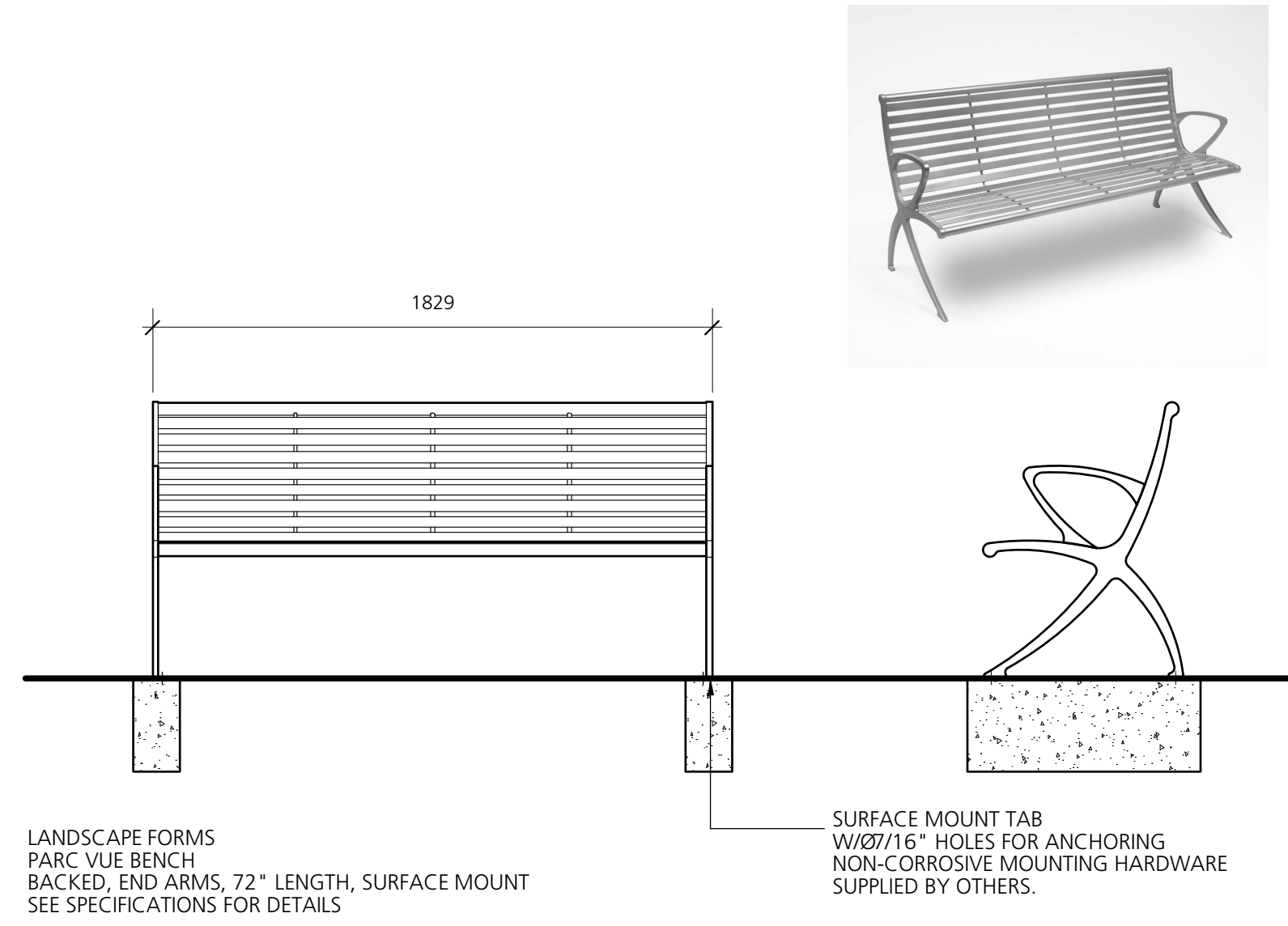
Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

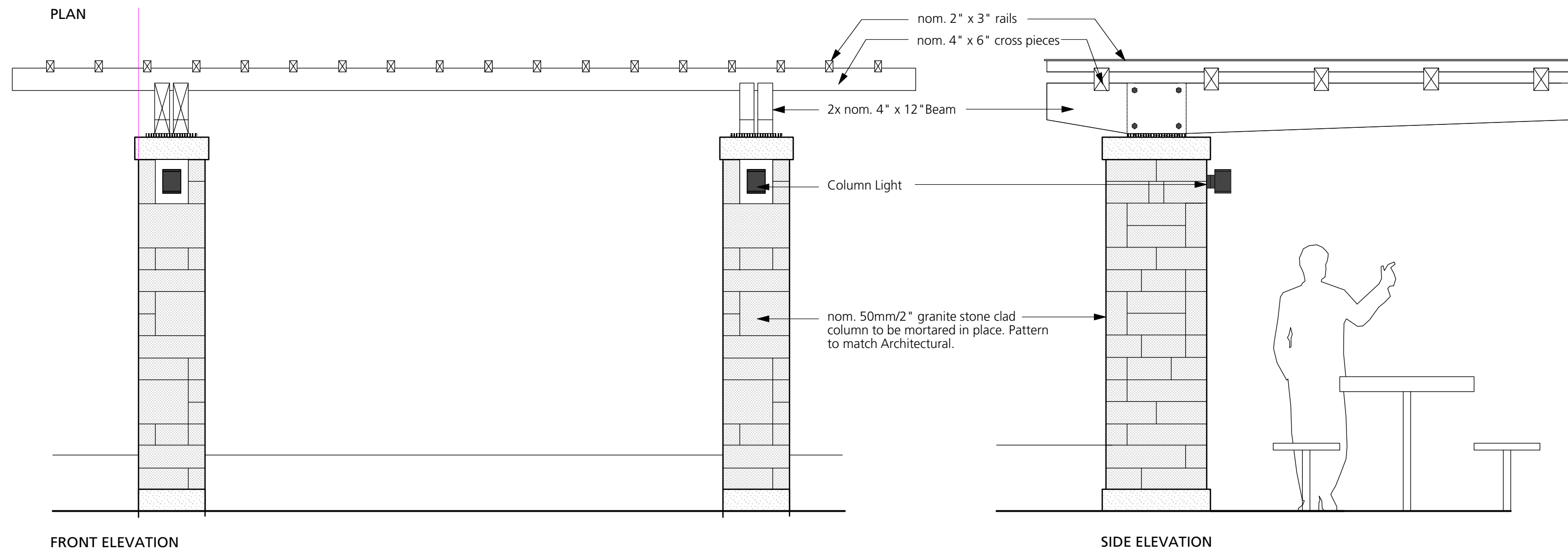
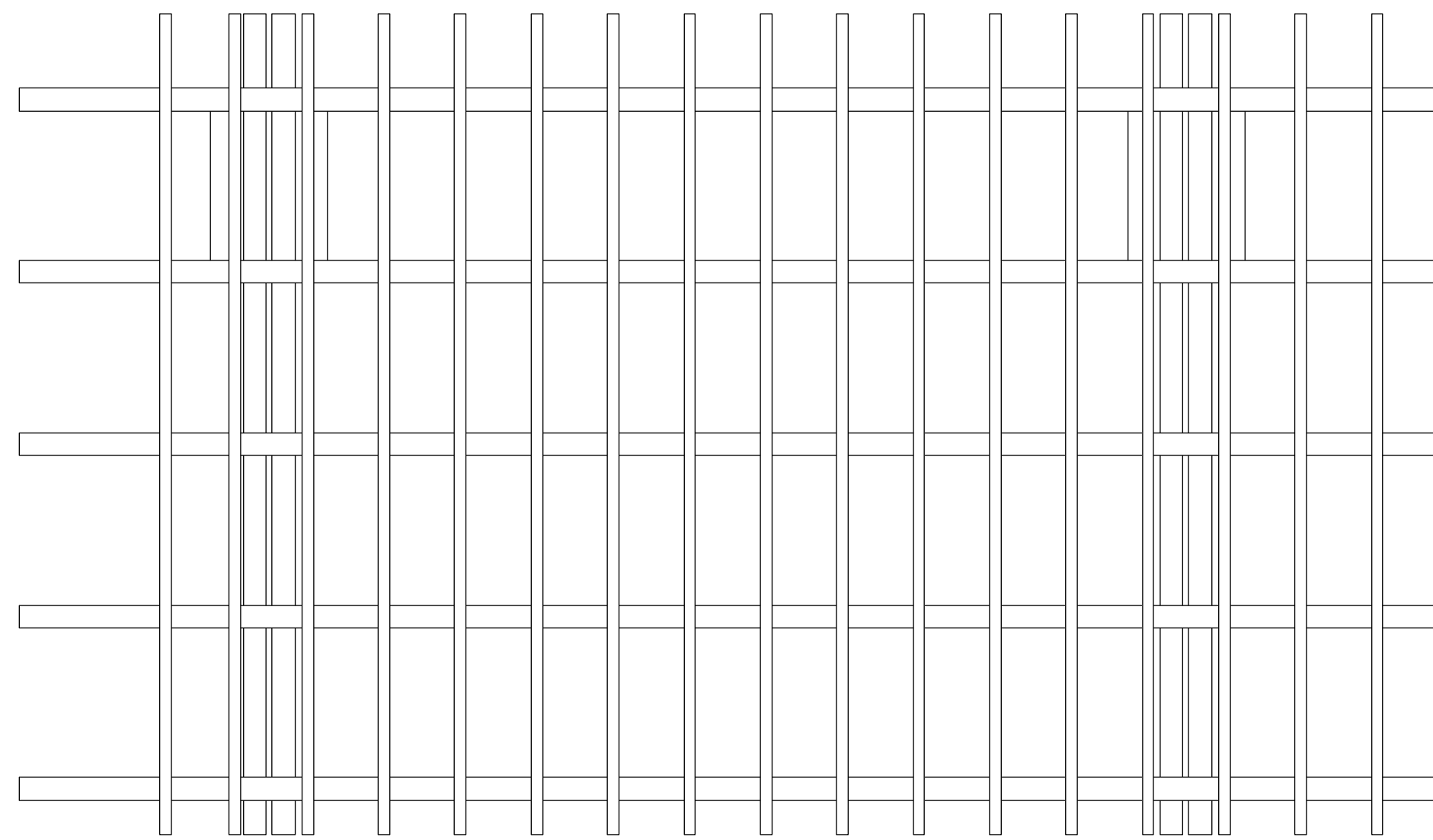
Drawing Title:  
**Details**

Project North:	Drawn By:	JW
	Checked By:	MP
Scale:	Job No.:	14-061
Sheet No.:	as noted	

**L5.0**

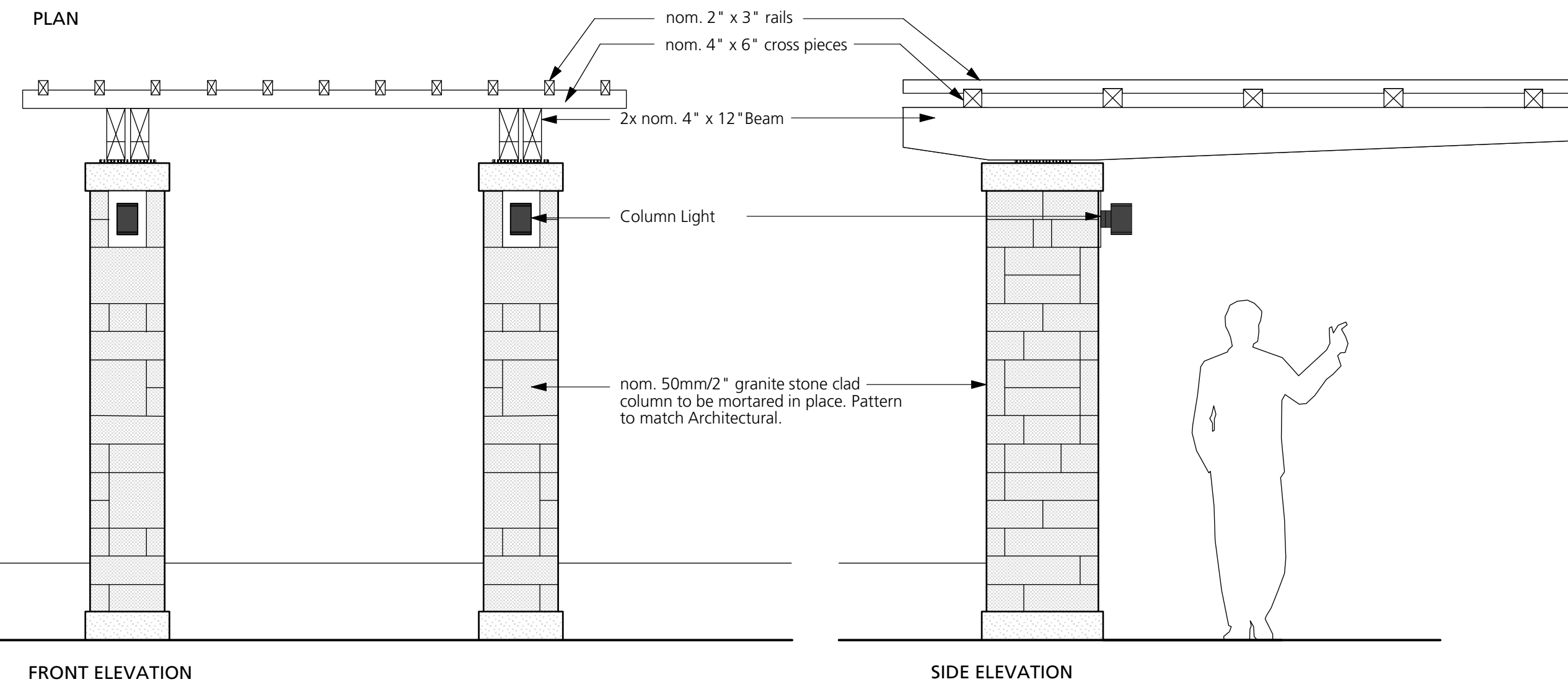
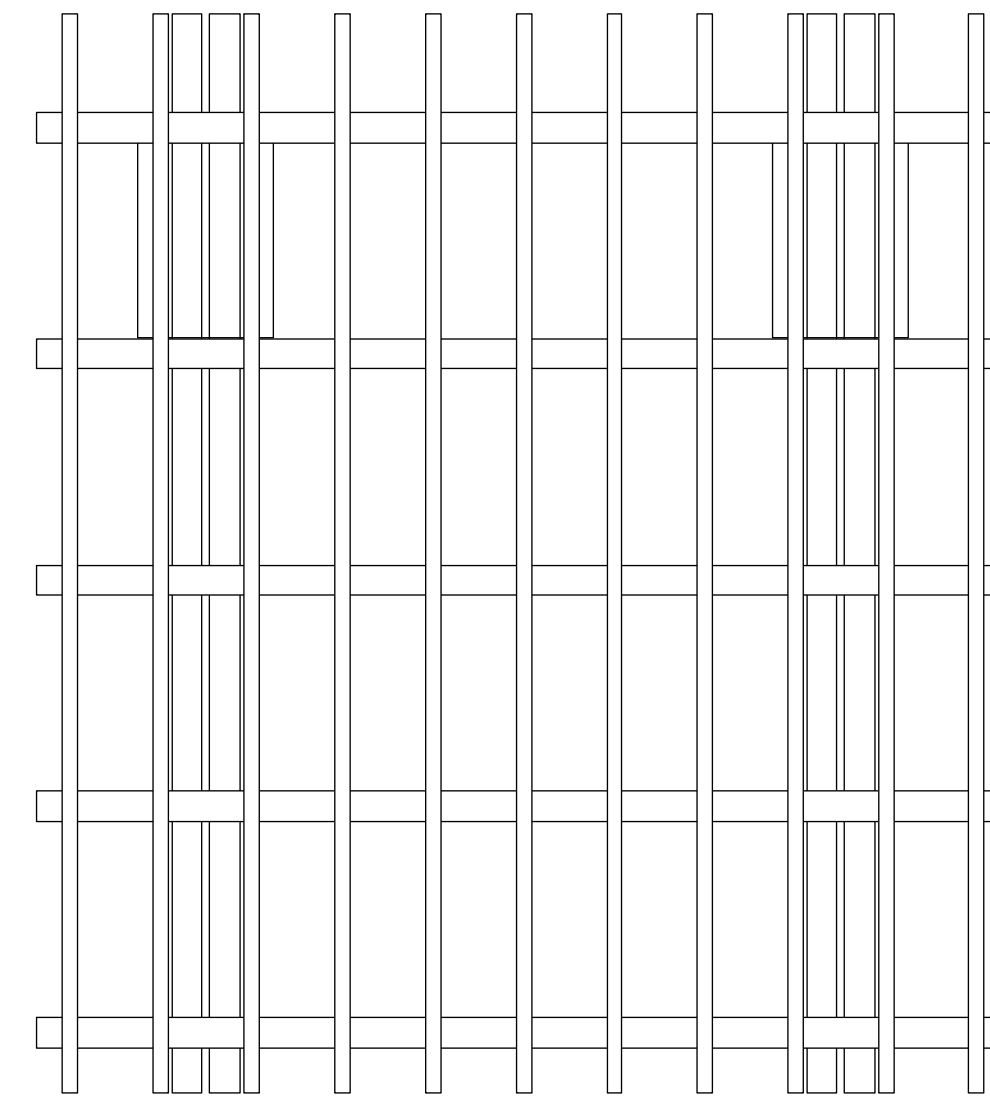


10 Bench  
 L5.1 scale: 1:20m



11 Courtyard Trellis  
 L5.1 scale: 1:25m

**NOTE:**  
 ALL WOOD TO BE SELECT TIGHT KNOT RED CEDAR  
 CEDAR TO BE DIMENSIONAL CEDAR, S4S  
 ALL WOOD TO BE STAINED, COLOUR SAMPLE TO  
 BE APPROVED BY LANDSCAPE ARCHITECT, 2  
 COATS MIN.  
 ALL FASTENERS TO BE HOT-DIP GALVANIZED AND  
 PAINTED BLACK  
 CONTRACTOR TO PROVIDE A MOCK UP OF STONE  
 COURSING FOR REVIEW AND APPROVAL BY  
 LANDSCAPE ARCHITECT PRIOR TO INSTALLATION



12 Entry Trellis  
 L5.1 scale: 1:25m

**NOTE:**  
 ALL WOOD TO BE SELECT TIGHT KNOT RED CEDAR  
 CEDAR TO BE DIMENSIONAL CEDAR, S4S  
 ALL WOOD TO BE STAINED, COLOUR SAMPLE TO  
 BE APPROVED BY LANDSCAPE ARCHITECT, 2  
 COATS MIN.  
 ALL FASTENERS TO BE HOT-DIP GALVANIZED AND  
 PAINTED BLACK  
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 COURSING FOR REVIEW AND APPROVAL BY  
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3 Issue for AUDP/DP	9/22/15
2 Issue for DP	1/27/15
1 Issue for AUDP	1/27/15
Revision No.	Date

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Client:  
**UBC Properties Trust**

Project Title:  
**Lot 27 & Lot 29**

Drawing Title:  
**Details**

Project North:	Drawn By:	JW
	Checked By:	MP
Scale:	Job No.:	14-061
as noted		
Sheet No.:		

**L5.1**