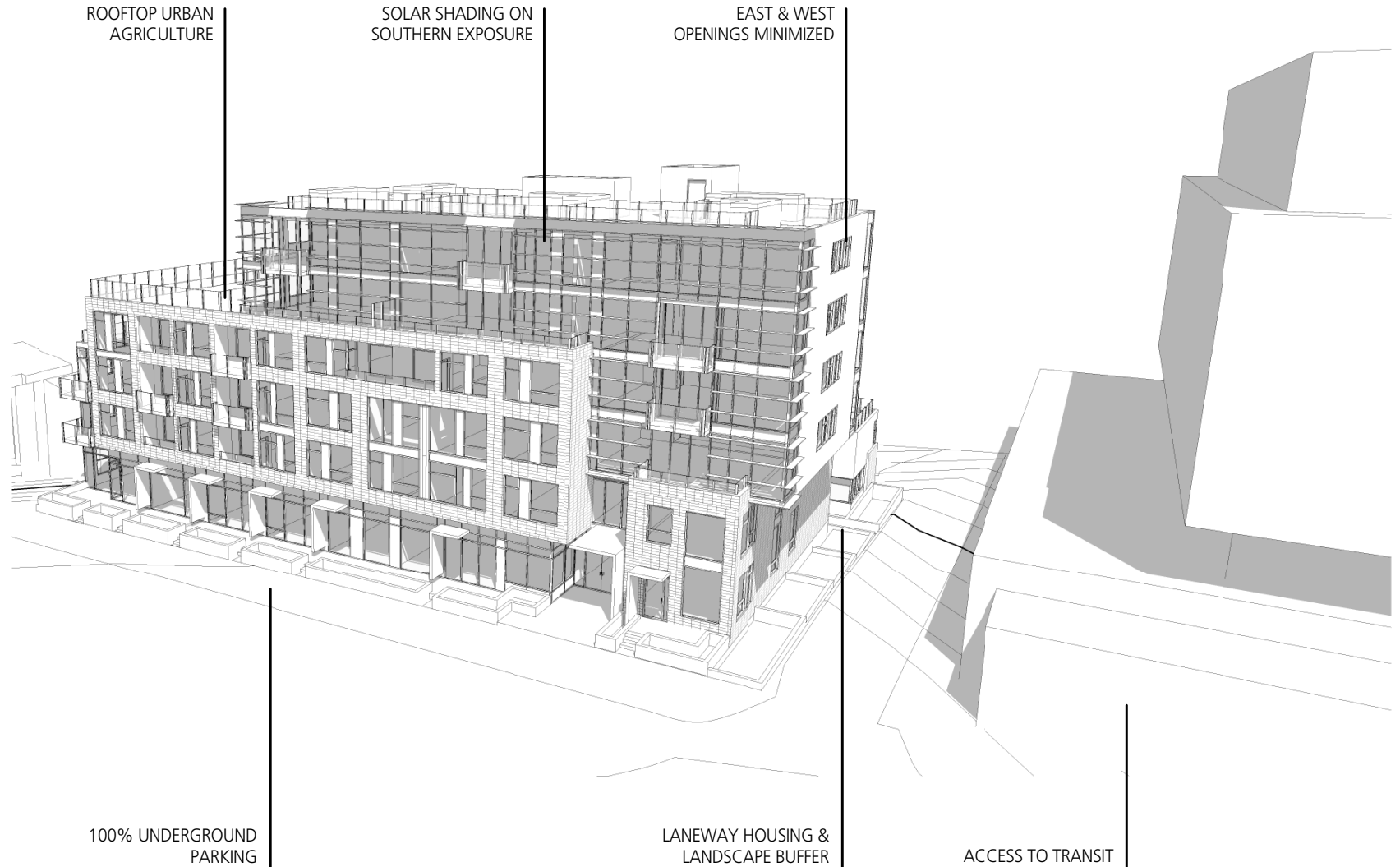


SUSTAINABILITY RATIONALE

The following list highlights the prominent sustainable features of the King Edward & Cambie project. We have also provided a draft LEED Scorecard. The Scorecard shows the project has incorporated numerous sustainable strategies that would achieve 63 LEED points (60 points are required for Gold) including 6 Optimize Energy Points, 1 or more Water Efficiency Point and 1 Stormwater Point. Several more points are potentially available and will be confirmed, as the design is refined. These strategies are consistent with the City of Vancouver Green Building Rezoning Policy.

- Construction Activities:** An erosion and sedimentation control plan will be implemented to minimize erosion and sedimentation during demolition, site preparation and throughout construction.
- Landscaping:** Landscaping will utilize natural and adaptive plants and is designed to reduce the development's heat island effect and minimize its impact on storm sewers.
- Access to Transit:** The project location is situated on a main transit corridor served by multiple transit routes.
- Alternative Transportation:** Significant bicycle storage to further strengthen the use of alternative methods of transportations.
- Smart Location:** The project is located along the developing Cambie Corridor. The site design and consideration of relation to adjacent properties/amenities will provide for a walkable community.
- Heat Island Effect Mitigation:** 100% of the project's parking is underground, reducing the project's heat island effect.
- Irrigation Efficiency:** The selection of native and adaptive plantings will significantly reduce the reliance on irrigation. In the event of a long period of drought, watering will be done by hand.
- Water Efficiency:** Low flow/flush plumbing fixtures, including toilets, showerheads, lavatory faucets and kitchen faucets will be provided.
- Passive Strategies:** Individual façade treatments as a response to solar exposure.
- Reduced Thermal Bridging:** A majority of the slab edges will be insulated, reducing impacts of thermal bridging.
- Optimized Energy Performance:** Energy efficiency measures are evaluated via a full building energy simulation.
- Energy Efficiency:** EnergyStar rated appliances including dishwasher, refrigerator, and clothes washer will be provided.
- DES Compatibility:** The mechanical systems will be appropriate for future connection to a neighborhood-scale hot water District Energy System (DES).
- Water Efficiency:** Low-flow plumbing fixtures will not only reduce water consumption but also reduce the amount of energy required to produce hot water.
- Waste Management:** A construction waste management plan will be developed and implemented throughout construction with a goal of diverting over 75% of waste generated.
- Building Materials:** Many of the building materials will be selected based on recycled content and/or regional manufacturing.
- GHG Reduction:** Use of cement substitutes such as flyash will reduce the developments CO2 footprint.
- Indoor Air Quality:** Low VOC finishes including adhesives, sealants and paints, as well as low emitting carpet and flooring systems will be sourced.
- Indoor Air Quality:** Best practices will be implemented during construction to optimize air quality and provide a clean and healthy building for the future residents.
- Daylighting and Views:** Appropriate glazing selection and placement will allow for plenty of daylight and views.
- Air Quality:** Partitions between units will be designed to minimize the transfer of tobacco smoke and odors between units.
- Thermal Comfort:** Operable windows will be incorporated throughout the buildings giving the future residents a high level of control over their thermal comfort.



■ GBL ARCHITECTS INC.
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NOTES

NO.	DATE	DESCRIPTION
1	AUG. 9, 2013	REZONING APPLICATION

LEED CHECKLIST

King Edward & Cambie		LEED Progress Report		2-Aug-13		KANE CONSULTING	
63		2		43		Total Project Score & Rating	
Certified: 40 to 49 points		Silver: 50 to 59 points		Gold: 60 to 79 points		Platinum: 80 or more points	
21		5		Sustainable Sites		Possible Points: 26	
Y	7	4	4	Prereq 1	Construction Activity Pollution Prevention	1	1
Y	1	1	1	Credit 1	Site Selection	1	1
5	1	1	1	Credit 2	Development Density and Community Connectivity	3,5	3,5
6	1	1	1	Credit 3	Brownfield Redevelopment	1	1
6	1	1	1	Credit 4.1	Alternative Transportation: Public Transportation Access	3,6	3,6
1	1	1	1	Credit 4.2	Alternative Transportation: Bicycle Storage and Changing Rooms	1	1
1	1	1	1	Credit 4.3	Alternative Transportation: Low-Emitting and Fuel-Efficient Vehicles	3	3
2	1	1	1	Credit 4.4	Alternative Transportation: Parking Capacity	2	2
1	1	1	1	Credit 5.1	Site Development: Protect and Restore Habitat	1	1
1	1	1	1	Credit 5.2	Site Development: Maximize Open Space	1	1
1	1	1	1	Credit 6.1	Stormwater Design: Quantity Control (CoV: SSo6.1 or SSo6.2 for 1 pt minimum)	1	1
1	1	1	1	Credit 6.2	Stormwater Design: Quality Control (CoV: SSo6.1 or SSo6.2 for 1 pt minimum)	1	1
1	1	1	1	Credit 7.1	Heat Island Effect: Non-Roof	1	1
1	1	1	1	Credit 7.2	Heat Island Effect: Roof	1	1
1	1	1	1	Credit 8	Light Pollution Reduction	1	1
5	1	1	1	Water Efficiency	Water Use Reduction	10	10
2	2	2	2	Prereq 1	Water Use Reduction	2,4	2,4
2	2	2	2	Credit 1	Water Efficient Landscaping: Reduce by 50% No Potable Water Use (CoV: WEc1 or WEc3 for 1 pt)	2,4	2,4
3	1	1	1	Credit 2	Innovative Wastewater Technologies	2	2
3	1	1	1	Credit 3	Water Use Reduction: 30%, 35%, 40% Reduction (CoV: WEc1 or WEc3 for 1 pt)	2-4	2-4
10	2	13	13	Energy and Atmosphere	Energy and Atmosphere	35	35
Y	7	4	4	Prereq 1	Fundamental Commissioning of Building Energy/Systems	1-7	1-7
Y	1	1	1	Prereq 2	Minimum Energy Performance	1	1
Y	1	1	1	Prereq 3	Fundamental Refrigerant Management	1	1
6	3	3	3	Credit 1	Optimize Energy Performance (CoV: 6 pts minimum)	1-7	1-7
6	1	1	1	Credit 2	On-site Renewable Energy	1-7	1-7
2	2	2	2	Credit 3	Enhanced Commissioning	2	2
2	2	2	2	Credit 4	Enhanced Refrigerant Management	2	2
2	3	3	3	Credit 5	Measurement & Verification	2	2
2	3	3	3	Credit 6	Green Power	3	3
6	1	1	1	Innovation & Design Process	Innovation & Design Process	6	6
1	1	1	1	Credit 1.1	Innovation in Design: Exemp SSc7.1 - 100% UG Parking	1	1
1	1	1	1	Credit 1.2	Innovation in Design: Exemp SSc4.1 - Public Transportation	1	1
1	1	1	1	Credit 1.3	Innovation in Design: Exemp EAc6 - Green Power	1	1
1	1	1	1	Credit 1.4	Innovation in Design: Low Mercury Lighting	1	1
1	1	1	1	Credit 1.5	Innovation in Design: Green Cleaning or MRc5 or other	1	1
1	1	1	1	Credit 2	LEED™ Accredited Professional	1	1
4	1	1	1	Regional Priority	Regional Priority	4	4
1	1	1	1	Credit 1	Durable Building	1	1
1	1	1	1	Credit 2.1	Regional Priority: SSc2	1	1
1	1	1	1	Credit 2.2	Regional Priority: WEc3	1	1
1	1	1	1	Credit 2.3	Regional Priority: MRc2	1	1

LEED Analysis by: Kane Consulting

KING EDWARD & CAMBIE

REZONING APPLICATION

SUSTAINABILITY

DATE	09/08/2013 8:52:03 AM
DRAWN BY	JS
CHECKED BY	TB
SCALE	
JOB NUMBER	1301

A-0.03