

Completed checklists form part of the application package reviewed by staff and ultimately, Council. New buildings and developments have impacts that last well beyond the construction period. Reducing the consumption of natural resources and increasing resilience to a changing climate are part of the challenge of building more sustainably. This checklist will help you identify and present how your project will help the Township meet its goals of becoming carbon neutral by 2050.

**Applicant's Name** Baldev Singh

**Site Address** 1048 CRAIGFLOWER ROAD



1.0 Certification		Please check
1.1	Step Code (Please indicate level) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	✓
1.2	EnerGuide rating	✓
1.3	LEED	
1.4	Passive House	
1.6	Living building	✓
1.7	Other (Built Green BC, R-2000, Green Shores etc.)	
2.0 Siting		
2.1	New buildings > 10 m <sup>2</sup> are located > 20 m from the high water mark (HWM) of the Gorge Waterway.	Required
2.2	New buildings >10 m <sup>2</sup> are located at least 10 m from the HWM from the outer coastline.	Required
2.3	Flood Construction Level has been established using sea level rise projections for the life of the building.	
2.4	Habitats of threatened and endangered species have been protected from impacts of development.	
2.5	Buildings are located within disturbed or developed areas.	✓
3.0 Shoreline Protection Measures		
3.1	Landscaping within 10 m of the high water mark consists primarily of native plant and tree species.	Required
3.2	A conservation covenant has been signed to protect sensitive ecosystems within 10 m of the shoreline.	
3.3	At least one native tree capable of (now or in the future) supporting the nest of a Bald Eagle, Osprey etc. has been retained or is planted within 30 m of the high water mark (HWM).	
3.4	Removal of at least 30% of hardened shoreline and replacement with erosion control measures designed to improve the habitat of the shoreline.	
3.5	Light from building and landscaping does not cast over water.	
3.6	Wildlife habitat has been incorporated into seawall design.	

4.0 Stormwater Absorption and Treatment		Please Check
4.1	An on-site stormwater retention system has been designed to retain at least the first 3 cm of rainfall from each rain event.	✓
4.2	Stormwater will be treated for pollutants prior to release to the stormdrain system or to a surface water source.	✓
4.3	The project features a green roof.	
4.4	The total amount of impervious surface is not greater than 20%.	
5.0 Water Conservation		
5.1	The irrigation system has been designed to reduce potable water use by 50% compared to conventional systems.	
5.2	Waterless urinals will be used.	
5.3	Water features use re-circulating water systems.	✓
5.4	Rainwater will be collected for irrigation purposes.	
5.5	Toilet and kitchen sink drains are separate from other drains to the point of exit.	
5.6	An approved greywater reuse system will be installed.	
6.0 Trees/Landscaping		
6.1	The project is designed to protect as many native and significant trees as possible.	
6.2	There will be no net loss of trees.	✓
6.3	Trees will be planted in soil volumes calculated to support the full grown size of the tree.	✓
6.4	At least 25% of replacement trees are large canopy trees.	✓
6.5	Topsoil will be protected from compaction, or stockpiled and reused.	✓
6.6	Erosion control measures have been designed and installed to prevent erosion of topsoil.	
7.0 Biodiversity		
7.1	New landscaping is predominantly native plant and tree species.	
7.2	Invasive species will be removed from landscaped areas.	✓
7.3	At least two biodiversity features have been incorporated into the new or existing landscaping (see section 18.5.3 of the OCP for ideas).	✓
8.0 Energy Conservation		
8.1	The building is pre-plumbed for solar hot water.	Required
8.2	Install a greywater heat recovery unit.	
8.3	Passive cooling is supported through flow-through ventilation design, low E windows, solar shades, shade trees etc.	
8.4	Passive heating is supported via building orientation, window design and thermal mass.	
8.5	The building will have necessary structural support and conduit for Solar PV.	
8.6	Obtain minimum of 20% of building energy consumption through community based or on-site renewables, such as district energy, waste heat recovery, geothermal, solar PV, solar hot water.	
8.7	Heating uses a low carbon heating source, such as air source heat pump.	✓

9.0 Transportation		Please Check
9.1	Building will have a car share or bus pass program for residents.	
9.2	Enhanced facilities for bicyclists such as showers, lockers, storage etc.	
9.3	Charging infrastructure for E-bikes will be provided.	✓
9.4	EV charging conduit supplied to 100% of residential parking units.	✓
9.5	30% of residential parking spaces include an electrical outlet or EV charging equipment.	✓
9.6	Adequate space in the electrical system to provide EV charging for 100% of parking stalls.	
9.7	For commercial buildings, Level 2 or Level 3 EV charging provided for employees and/or visitors.	
10.0 Materials/Waste		
10.1	Employs at least 3 advanced framing techniques described in the CHBA builder's manual to reduce unnecessary lumber and sheathing.	✓
10.2	Uses at least two materials which are certified for recycled content.	
10.3	Uses engineered structural material for two major applications (>10% of floor area).	
10.4	5 major building elements made from >50% recycled content.	
10.5	Use foundation, floor and >50% of walls from existing building.	
10.6	Deconstruct at least 50% of existing building for material salvage.	
10.7	Use at least five major materials or systems produced in BC.	✓
10.8	Use certified sustainably harvested wood for one major structural or finishing application (eg framing, plywood, floors)	
10.9	Eliminate use of wood from threatened trees.	✓
10.10	Recycling area provided within residential suites.	
10.11	Recycling collection area for multi-family buildings.	
10.12	Pickup of compostables provided in multi-family units.	
10.13	Construction waste management practices used to reduce and separate waste and divert at least 50% from the landfill.	✓

Please include a brief description of how this project contributes to a reduction in greenhouse gas emissions and moves the municipality closer to its ultimate target of becoming carbon neutral by 2050 (use next page if needed).

1048 Craigflower Road - Esquimalt BC

For the 1048 Craigflower road project, here is how it contributes to a reduction in greenhouse gas emissions and helps the municipality work towards its carbon-neutral goal by 2050:

1. **Energy-Efficient Building Design:** The Craigflower project incorporates energy-efficient systems, such as high-quality insulation, LED lighting, and advanced heating and cooling systems, which will significantly reduce energy consumption. By using these energy-saving solutions, the project lowers its operational carbon footprint, which is essential for reducing overall greenhouse gas emissions in the built environment. This aligns with municipal and provincial sustainability targets, which include reducing energy use and emissions in buildings.
2. **Sustainable Materials:** The project emphasizes the use of sustainable and low-carbon materials, including recycled content materials like recycled steel and concrete. These materials are produced with a lower carbon footprint compared to virgin materials, reducing emissions related to extraction, manufacturing, and transportation. This strategy not only minimizes environmental impact but also supports the municipality's circular economy goals by reusing resources and reducing waste.
3. **Green Infrastructure and Urban Design:** The project incorporates green infrastructure such as permeable paving, rainwater management systems, and native plant landscaping. These features help absorb CO<sub>2</sub>, reduce the urban heat island effect, and improve stormwater management, which collectively lower emissions related to energy use. Green infrastructure also reduces the need for energy-intensive systems, enhancing the building's sustainability and contributing to the municipality's carbon-neutral goal.

By implementing these strategies, the Craigflower project helps move the municipality closer to its carbon-neutral target by reducing greenhouse gas emissions and fostering long-term environmental sustainability. This is a crucial step in meeting the commitment to become carbon neutral by 2050, addressing both the construction phase and the building's ongoing operation.

BDD Homes.

