

*DR APT GemTeeb*

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** \_\_\_\_\_

**Site Address** 820 Dunsmuir Road

**RECEIVED**

**MAR 13 2020**

CORP. OF TOWNSHIP  
OF ESQUIMALT

DEVELOPMENT SERVICES

1.0 Certification		Please Check
1.1	Step Code (Please indicate level) <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
1.2	EnerGuide rating	# TBD
1.3	LEED	<input type="text"/>
1.4	Passive House	<input type="text"/>
1.6	Living building	<input type="text"/>
1.7	Other (Built Green BC, R-2000, Green Shores etc.)	<input type="text"/>
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.	<input type="text"/>
2.4	Habitats of threatened and endangered species have been protected from impacts of development.	<input checked="" type="checkbox"/>
2.5	Buildings are located within disturbed or developed areas.	<input type="text"/>
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.	<input type="text"/>
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).	<input type="text"/>
3.4	Removal of at least 30% of hardened shoreline and replacement with erosion control measures designed to improve the habitat of the shoreline.	<input type="text"/>
3.5	Light from building and landscaping does not cast over water.	<input type="text"/>
3.6	Wildlife habitat has been incorporated into seawall design.	<input type="text"/>



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.	<input checked="" type="checkbox"/>
4.2	Stormwater will be treated for pollutants prior to release to the stormdrain system or to a surface water source.	<input checked="" type="checkbox"/>
4.3	The project features a green roof.	<input type="checkbox"/>
4.4	The total amount of impervious surface is not greater than 20%.	<input checked="" type="checkbox"/>
5.0 Water Conservation		
5.1	The irrigation system has been designed to reduce potable water use by 50% compared to conventional systems.	<input type="checkbox"/>
5.2	Waterless urinals will be used.	<input type="checkbox"/>
5.3	Water features use re-circulating water systems.	<input type="checkbox"/>
5.4	Rainwater will be collected for irrigation purposes.	<input type="checkbox"/>
5.5	Toilet and kitchen sink drains are separate from other drains to the point of exit.	<input type="checkbox"/>
5.6	An approved greywater reuse system will be installed.	<input type="checkbox"/>
6.0 Trees/Landscaping		
6.1	The project is designed to protect as many native and significant trees as possible.	<input checked="" type="checkbox"/>
6.2	There will be no net loss of trees.	<input checked="" type="checkbox"/>
6.3	Trees will be planted in soil volumes calculated to support the full grown size of the tree.	<input checked="" type="checkbox"/>
6.4	At least 25% of replacement trees are large canopy trees.	<input type="checkbox"/>
6.5	Topsoil will be protected from compaction, or stockpiled and reused.	<input checked="" type="checkbox"/>
6.6	Erosion control measures have been designed and installed to prevent erosion of topsoil.	<input type="checkbox"/>
7.0 Biodiversity		
7.1	New landscaping is predominantly native plant and tree species.	<input checked="" type="checkbox"/>
7.2	Invasive species will be removed from landscaped areas.	<input checked="" type="checkbox"/>
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).	<input checked="" type="checkbox"/>
8.0 Energy Conservation		
8.1	The building is pre-plumbed for solar hot water.	Required
8.2	Install a greywater heat recovery unit.	<input type="checkbox"/>
8.3	Passive cooling is supported through flow-through ventilation design, low E windows, solar shades, shade trees etc.	<input checked="" type="checkbox"/>
8.4	Passive heating is supported via building orientation, window design and thermal mass.	<input checked="" type="checkbox"/>
8.5	The building will have necessary structural support and conduit for Solar PV.	<input type="checkbox"/>
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.	<input type="checkbox"/>
8.7	Heating uses a low carbon heating source, such as air source heat pump.	<input type="checkbox"/>



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

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).

This proposed project is designed to Re-use an existing heritage building on the property by moving it to another site within the municipality. This allows us to build a new multi-family development on the site, using design strategies to incorporate passive heating, stormwater management, permeable hardscapes and landscaping consisting of native species and biodiversity features. proximity to the town, limited parking and EV chargers encourages walking, transit, cycling and Electric Vehicles.