Proposed Category	#	Area of Focus/Metric	Rationale	Existing Policies within Waterloo Region	Existing Policies within Other Ontario Municipalities
Built Environment Promotes safe, inclusive, and accessible spaces that address the inequities that serve as barriers to inclusive communities	B1	EV Parking and Charging Infrastructure	 Anticipate future needs for the community and the necessary infrastructure Prioritize more sustainable modes of transport 	KITCHENER requires electric vehicle charging stations and shared parking. WATERLOO requires a minimum number of EV parking spaces.	OTTAWA, CALEDON , and TORONTO have rates for parking and charging for various land uses.
	B2	Active and Public Transportation	 Support shift away from single-occupancy vehicles 	ALL (the Region, municipalities, and townships) have existing policies relating to transportation-oriented development, transportation demand management, on- site amenities (benches, trash bins, etc.), pedestrian level infrastructure (bike racks), and overall, encourage walking and cycling as a mode of transport.	OTTAWA , CALEDON , and TORONTO outline requirements for pedestrian amenities and cycling amenities (parking, storage, and shower and change facilities) to make alternative modes of transport more convenient and easily accessible.
	B3	Exterior Lighting	 Prioritize visibility and sense of security for pedestrians Minimize light pollution 	ALL have policies or guidelines pertaining to lighting to prioritize pedestrian safety and to minimize light pollution.	OTTAWA , CALEDON , and TORONTO require exterior lighting in pedestrian spaces to prioritize visibility and safety and minimize light pollution.
	Β4	Resilience	• Prioritize preparedness for residents and buildings by addressing a future with more severe climate related weather impacts (extreme heat, flooding) such as increased shade structures, mechanical cooling and/or internal room temperature monitoring and controls, etc.)	The REGION , KITCHENER , and WATERLOO encourage resiliency through design. WILMOT highlights the identification of efficiency opportunities and CAMBRIDGE encourages appropriate stormwater management to minimize flood risks. The REGION further encourages the commitment to adaptation through water supply and efficiency, air quality improvement, energy conservation, waste reduction and management, and ecological restoration.	OTTAWA outlines strategies to support extreme wind and snow loading. CALEDON requires that at least one feature be introduced to improve building resilience (with a focus on wind resilience, flood-proofing, and backup energy), a backup generator for three or more building systems, and a refuge area (with heating, cooling, lighting, potable water, and power).

Attachment A – Examples of high-performance development standards and related policies

Energy Efficiency Encourages energy conscience, resilient, and efficient developments and buildings.	E1	Embodied Carbon	• Prioritize adaptive reuse of existing buildings and consider whole-life cycle carbon impacts of building materials	ALL highlight heritage conservation efforts and encourage appropriate disposal of construction related waste.	OTTAWA encourages a commitment to construction waste tracking through a downloadable Excel template. TORONTO encourages low embodied emissions materials through its (optional) tier 2 and 3 standards and requires for the management of construction and demolition waste in accordance with provincial regulations, which encourages the reduction of waste produced.
	E2	Energy Efficiency	 Minimize building heat loss and prioritize more efficient buildings Allow for monitoring and assessment (e.g. modelling and reporting) 	The REGION , KITCHENER , WILMOT , and WOOLWICH aim to be an energy- efficient, resilient, and low-carbon communities. WATERLOO requires an Energy Study which includes various energy conservation measures. The REGION introduces the idea of a High-Performance Development Standard that will require the submission of an Energy Modelling Report. Energy studies may be required for a complete application by KITCHENER .	OTTAWA indicates that buildings shall be designed to meet or exceed one of the following: Total Energy Use Intensity (TEUI), Thermal Energy Demand Intensity (TEDI) and Greenhouse Gas Emissions Intensity (GHGI) targets or the Ontario Building Code, SB-10, carbon emission efficiency improvements. TORONTO requires that the building demonstrate alignment to the annual GHGI limits or with the TEUI and TEDI targets or go above the Ontario Building Code, SB-10.
	E3	District Energy	 Reduce the cost of energy Support the shift away from non-renewable resources 	The REGION aims to be an energy- efficient, resilient, and low-carbon community. KITCHENER and NORTH DUMFRIES encourage district energy to address energy consumption.	OTTAWA requires that district energy connects to an existing district energy system, demonstrates less GHG emissions than the district referenced case, or that a system is not feasible. In a previous version of the TGS, TORONTO specified that buildings should be designed to be district energy-ready.
	E4	Renewable Energy	• Support the shift away from fossil fuels	ALL promote the use of renewable energy systems in policies.	Renewable energy is encouraged by OTTAWA to minimize building's annual energy consumption.

Natural Environment Recognizes the importance of the natural environment, encourages mindful consumption and resource use to minimize the contributions to GHG emissions	N1	Trees and Plants (Biodiversity)	 Minimize the urban heat island effect and risk of soil stacking/compaction Provide shading through canopies Support the landscape, ecosystem diversity, and air quality 	ALL encourage native species for conservation, shade, and to support clean air. The REGION and KITCHENER discourage the removal of topsoil or extraction of peat. WATERLOO aims to prevent soil compaction.	OTTAWA and TORONTO encourage the introduction of tree planting and native plant species to provide canopy cover and vegetated buffers. CALEDON has a similar approach and uses a Green Factor Tool.
	N2	Waste	 Ensure appropriate storage and sorting of waste Minimize inappropriate disposal of items 	The REGION , KITCHENER , WATERLOO , WILMOT , and NORTH DUMFRIES encourage appropriate management and maintenance of waste and encourage reductions.	OTTAWA and TORONTO demonstrate a commitment to appropriate waste storage through designated waste streams and containers.
	N3	Water Efficiency	 Reduce water consumption and support more efficient use 	The REGION has a Water Efficiency Master Plan and KITCHENER supports water efficiency measures. WATERLOO requires a Sustainable Development Report for certain applications and noted energy efficiency as a potential initiative.	TORONTO encourages the installation of water fixtures of the use of non-potable water sources.
	N4	Local Food	 Reduce the urban heat island effect Encourage local food systems Support biodiversity 	KITCHENER, CAMBRIDGE , and WATERLOO promote local food systems.	N/A
	N5	Bird Friendly Design	• Prevent collisions of birds and buildings	KITCHENER encourages the consideration to bird friendly development in the urban design manual.	OTTAWA and TORONTO outline specific protection measures (e.g. window glazing) to minimize fly-through effects.
	N6	Education	• Encourage awareness and support education to ensure appropriate use and planning of buildings long-term	N/A	CALEDON prioritizes education towards homeowners and tenants through signage or informational materials.
	N7	Stormwater	 Reduce the urban heat island effect Support good water retention and drainage 	KITCHENER has a stormwater management master plan that outlines how stormwater will be managed over the next 15 years.	TORONTO has green infrastructure standards that pertain to the capture and control of stormwater runoff from new streets. They also encourage site design that achieves water balance, water

KITCHENER, WATERLOO, and	quality, and water quantity control
CAMBRIDGE outline recommendatio	ns targets.
for landscaping around parking and	
laneways, and pedestrian walkways t	0
reduce visual impact and the urban h	eat
island effect.	