

# Bulletin

## Sustainable Large Developments

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## Intent

This bulletin is intended to inform applicants seeking to comply with the Rezoning Policy for Sustainable Large Developments.

Large developments are those that:

- Involve a land parcel or parcels having a total site size of 8,000 m<sup>2</sup> (1.98 acres) or more, or
- Contain 45,000 m<sup>2</sup> (484,375 ft.<sup>2</sup>) or more of new development floor area

Projects that are limited in scope may be excluded from the requirements of this policy, including:

- Text amendments to the existing zoning for minor changes to large developments
- Projects that contain less than 4,700 m<sup>2</sup> (50,590 ft.<sup>2</sup>) of new development.

In such cases, a request for partial exemption from the policy requirements should be discussed with the rezoning planner prior to rezoning application submission. Alternatives can be considered and, if warranted, some of the requirements may be waived by the General Manager of Planning, Urban Design, and Sustainability (under Director of Planning authority).

Applicants should review the process and requirements articulated in this document. This document is to be used in conjunction with: typical permit application documents; the applicable District Schedule of the Zoning and Development By-law; and any other relevant policies or guidelines.

Note that this policy works with two other Sustainability policies, as follows. The Green Building Policy for Rezonings applies to rezoning applications of any size, some large development rezonings may fall under the Higher Building Policy; both of these policies are ***in addition*** to the requirements in this policy.

This policy has eight sections, as follows:

1. Sustainable Site Design
2. Sustainable Food Systems
3. Green Mobility
4. Potable Water Management
5. Groundwater Management
6. Zero Waste Planning
7. Affordable Housing

## **1 Sustainable Site Design**

## 1.1 General Information

Large site developments should follow principles of sustainable site design in land development and management practices.

Walkable neighbourhoods reduce driving, reduce GHG emissions, reduce the cost of living and reduce rates of obesity, high blood pressure, heart disease, and diabetes. Walkable neighbourhoods are characterized by proximity to amenities and services, a pedestrian orientation that minimizes car dependence, and well established density and land use diversity thresholds. Applications should contribute to creating a walkable, complete community.

Retaining or mimicking natural processes and modelling healthy living systems should be done wherever possible. Including nature in the city improves the health and wellbeing of the community, provides habitat, enhances ecosystem function and services, creates public open spaces for people to gather and socialize, and creates opportunities for people to directly experience nature in the city.

The allocation and design of public open space or spaces can provide significant public amenity and ecosystem services, such as rainwater management, urban forest canopy, food production and habitat. The response to open space and built form requirements will depend on the site typology which is divided for the sake of this section as follows:

- **Site Type A:** These sites are typically master planned and subject to one rezoning application. They contain multiple parcel or multiple buildings under individual development applications. By design, they are characterised by having at least one substantial, contiguous park or open space having a natural soil profile and growing conditions. In addition, there will be a mixture of private, semi-private and public open spaces throughout the site that are located at grade and on top of structure.
- **Site Type B:** These sites are typically master planned and subject to one rezoning application. They contain multiple parcel or multiple buildings under individual development applications. As differentiated from Type A, the majority of open space is provided on top of building structure, roofs, plazas and at the perimeter of buildings.
- **Site Type C:** These sites are single parcel large sites subject to a rezoning application and occasionally qualify under the Policy for Higher Buildings. They are generally characterised by building(s) on top of excavated underground parking garages. Open space is typically provided through a mixture of publicly accessible plazas, semi-private common courtyards and amenity decks, private decks and rooftops. Landscapes are established on slab in non-continuous soils. Access to grade oriented, continuous natural soil profile is challenged or limited to the perimeter of the building.

Sustainable Site Design should, in addition to the requirements specified in the policy, consider the following:

- Rainwater management must be coordinated with the open space plan, site plan, and landscape plan. This requires an integrated approach to site planning throughout the design process.
- Consider the effects of micro-climate, solar aspect, shading, wind, elevation, temperature in the overall landscape design and plant selection. By looking at wind effects and other site conditions, buildings can be pre-modelled early in the design process to optimise growing conditions and improve the quality of outdoor space for habitants. This can result in changes to building location and shape.
- The grading plan and the landscape design must demonstrate water conservation and rainwater management. This can be done by employing landscape grading techniques and hardscape design strategies, such as: use permeable hardscaping materials that allow sub-grade water infiltration, direct water to soil infiltration zones and/or sub-grade or

rooftop water storage systems, employ “treatment train” strategies. Refer to the City of Vancouver’s Water Wise Landscape Guidelines.

- For sites with open space having continuous soils (Type A), irrigation requirements should be phased out following an establishment period of two (2) years.
- Early in the design process, the structural design should anticipate slab strength and modifications (lowering or angling) to ensure that sufficient soil volumes are provided for trees. Tree planters on roofs should be permanent, substantial and cast in place, wherever possible. Avoid ‘container’ planting.
- Biodiversity - from micro-organisms living in the soil to all the flora and fauna sharing the urban landscape - is essential to the health of city wide and regional ecosystems. All proposals should incorporate habitat design, plant diversity and soil health principles. For further direction on these requirements, refer to the Urban Forest Strategy, Bird-Friendly Design Guidelines, Biodiversity Strategy and ReWilding Strategy.

**Dog Relief Area Design Considerations:**

These are well-draining areas, ideally at grade, that are easily cleaned. Elements should include deep pea gravel surfacing (minimum 500 mm), a hose bib for cleaning and dog washing, trash receptacle and bag dispenser, pee post and decorative elements, and other attractive landscaping elements. Dog relief areas are small in size with a minimum area of approximately 9 m<sup>2</sup>.

**1.2 Submission Requirements, Additional Information**

**1.2.1 Trees**

Applications must provide an arborist report evaluating the condition of existing trees on site (refer to Protection of Trees By-law, No. 9958, section 7.2). Applications should refer to Vancouver’s Urban Forest Strategy to understand the citywide goals and objectives related to protecting and enhancing the urban forest. The current Urban Forestry Strategy goal is to increase tree canopy cover to a city-wide average of 22% by 2050. Tree canopy cover is generally proportional to permeable surface cover. At the neighborhood and development site scale, there are many factors that determine feasibility of tree canopy coverage. Larger sites (Type A and B) should target the minimum of 22% tree canopy cover on public and private property, to the greatest extent practicable.

**1.2.2 Targets**

Tree canopy (Total site)		Vegetative cover		Continuous soils at grade	
Type A	20-25 %	Total site	30 %	Private property parcel	10 %
Type B	15-20 %	Private property parcel	40 %		
Type C	10-15 %				

Definitions

**Total site** - Public and private property

**Vegetative cover** - Sum of all vegetation cover forecast at maturity, including tree canopy, landscaped areas, green roofs

**Continuous soils at grade** - Soil zones that maintain the qualities of the existing disturbed or undisturbed natural soil profile and hydrology through to bedrock and are not located on top of structure and are generally open to the sky

Calculations

Tree canopy and vegetative cover should be calculated by using forecasted tree canopy cover area at time of tree maturity in an urban setting, which will vary based on species, expressed as a ratio of total site area. Existing tree canopy cover can use the current canopy size or the forecasted maturity size, whichever is greater. The canopy and vegetation plans can be presented in plan view (two dimensional) using an area overlay sheet with calculations.

At the scale of the overall large site (Type A and B), the site area is the defined by the boundary of the project, including all public and private property. At the development parcel scale, calculations include all tree and vegetation on private property; and, adjacent canopy coverage and plantings on city property in the immediate proximity, but cannot be counted twice for different parcels.

### 1.2.3 Park and Open Space Plan contents:

- area calculations to differentiate between accessible open space with continuous soil and non-continuous soil (landscapes on structure);
- area calculations to differentiate between outdoor open spaces shown as public, semi-private, and private to highlight how access to nature is provided. City streets, sidewalks and lanes are necessary public corridors and should not be included in the calculations. Pedestrian oriented, alternate street types such as a mews or woonerf can be counted; and
- site analysis to identify any natural site features, including existing tree protection that can be integrated into the open space plan.

## 2 Sustainable Food Systems

### 2.1 General Information

The City of Vancouver's overarching food related policy and guidelines include:

- Vancouver Food Strategy (2013) <http://vancouver.ca/files/cov/vancouver-food-strategy-final.PDF>
- Greenest City 2020 Action Plan (GCAP) (2011, 2015)
- Vancouver Food Charter (2007) [http://vancouver.ca/files/cov/Van\\_Food\\_Charter.pdf](http://vancouver.ca/files/cov/Van_Food_Charter.pdf)
- Park Board's Local Food Action Plan (2013) <http://vancouver.ca/files/cov/Local-food-action-plan.pdf>

Available food asset options to be included in the development:

- Community gardens, shared garden plots, and community learning gardens
- Urban farm
- Edible landscaping
- Community kitchen
- Community food market
- Farmers market
- On-site organics management
- Other food system assets (e.g. other food processing, storage, or distribution infrastructure)

To select food assets to deliver, explore the community context and needs, and any positive or negative impacts on the surrounding neighbourhoods. Replacing or enhancing any previous on-site food assets is encouraged. Opportunities for on-site delivery of food assets are preferred.

The City will consider other food asset proposals that are in accordance with the vision, principles and goals defined in the Vancouver Food Strategy or the Park Board's Local Food

Action Plan. Consider linkages between the food assets and other sustainable site infrastructure goals such as rainwater management, access to nature, and zero waste planning.

## **2.2 Community Gardens, Shared Garden Plots, or Community Learning Gardens**

### **2.2.1 Characteristics**

Community gardens or shared garden plots are managed by groups of individuals to grow and harvest food and ornamental crops. The harvested food is typically used by those cultivating the land and their households, or can be used in the programs of non-profit organizations such as community centres, neighbourhood houses or neighbourhood food networks. Community gardens can occur at various scales and entail a variety of methods including raised garden plots, balcony pots, rooftops, vertical growing, or growing in soilless mediums.

Urban agriculture is ideally suited for many locations in new developments:

- Rooftops
- Balconies
- Around buildings
- Courtyards
- Boulevards
- Open space

For reference:

- Urban Agriculture Guidelines for the Private Realm (2009) - <http://vancouver.ca/files/cov/urban-agriculture-guidelines.pdf>

### **2.2.2 Design Guidelines**

Community gardens and shared garden plots can be provided as part of consolidated common outdoor amenity space. The incorporation of garden plots should enhance the overall design of that common outdoor amenity and should be considered as one of the variety of programmed uses of those spaces.

#### Siting and Access

- (a) Locate garden plots to maximize sunlight access.
- (b) Where garden plots are located on rooftops, consider the need for windscreens.
- (c) Provide easy access to and from the garden plots for hauling larger items, such as soil and produce. Consider the need to use wheelbarrows for this purpose.
- (d) Some garden plots should incorporate enhanced accessibility features to accommodate wheelchairs, strollers and gardeners who have mobility restrictions.

#### Co-locating with Other Amenities

Consider incorporating a covered outdoor space for shelter; an outdoor children's play area; an indoor amenity room with kitchen, washroom and an eating area; and/or outdoor seating areas.

#### Number and Size of Garden Plots

- (a) Garden plots should be provided for 30% of the residential units that do not have private outdoor space of more than 100 square feet.
- (b) Each garden plot should be a minimum of 24 square feet, with a minimum soil depth of 18". Plots with enhanced universal accessibility features should have a height of 2.5 feet.
- (c) Large, undivided planting areas equal in square footage to individually separated plots may be provided in cases where individual plots are not desired or suitable.

## Support Facilities

- (a) Must provide hose bibs within 20 feet of any garden plot.
- (b) Must provide a storage room or shed for tools, a composting system, and a potting bench.
- (c) Consider additional facilities such a greenhouse, electrical outlets, and area lighting.

## **2.3 Urban Farm**

### **2.3.1 Characteristics**

Urban farms differ from community gardens and other urban agriculture in that the food is primarily grown for sale. Urban farms grow fruits and vegetables and are typically managed or operated by a for-profit, non-profit, or a social enterprise organization. In addition to creating economic opportunities, urban farms provide many benefits such as greening the city, engaging community members, and educating residents about local food systems.

Many factors enable the success of an urban farm including location, size, on-site infrastructure, and business model. Because there are a number of different business and operational models, there is no one factor that will enable a farm to flourish. For that reason, there may be opportunity to modify the infrastructure list below.

For reference:

- Urban Farm Guidelines  
<https://guidelines.vancouver.ca/guidelines-urban-farm.pdf>

### **2.3.2 Design Guidelines**

#### Size

- If growing in soil, an ideal minimum space size would be 20,000 sq. ft. Minimum size of space for other growing mediums depends on business and market plan.

#### Location

- May be indoors or outdoors. If outdoors, may be on the ground, on a podium, or on a roof.

#### Access

- Incorporate the design and interface of the farm into the overall design of the building, including allowing for other users/uses of the building to have passive and active interactions and access in the farm area.
- If located on a roof, must have elevator access (e.g. receiving annual soil amendments).
- Should have access to a loading bay.

#### Access to water

- Must have water access for growing
- Must have a handwashing station, preferably with hot water, as well as a washing station for cleaning, sorting and packaging produce

#### Storage and packaging

- Should have an indoor and/or covered area to store, prepare, package produce, and provide administration functions
- Should have storage space for tools and equipment



Other

- Consider an on-site organics composting system, one of sufficient size and utility to match the needs of the urban farm, to be available and utilized on site
- Should have an access to a washroom

## **2.4 Edible Landscaping**

### **2.4.1 Characteristics**

Edible landscape design is the use of plants that produce food in place of more commonly used ornamental plants. Many of these trees and other plants provide ornamental quality while also producing edible leaves, fruits, flowers, nuts and berries. Edible landscape design is encouraged in areas that are easily accessible for harvesting, and that are protected from potential contamination. Edible landscape design can be incorporated as part of any landscaped areas.

For reference:

- Summary of plants commonly used for edible landscape design (2009)  
<http://vancouver.ca/files/cov/urban-agriculture-guidelines.pdf>
- Guidelines for Urban Honey Beekeeping (2015)  
<https://bylaws.vancouver.ca/bulletin/bulletin-beekeeping.pdf>

### **2.4.2 Design Guidelines**

- (a) Must demonstrate comprehensive edible landscape design efforts that integrate with existing and proposed landscape features. In addition to urban agriculture, edible plants can be used as ornamentals as part of the landscape design.
- (b) Must provide educational or interpretive signage adjacent to plantings.
- (c) Should locate edible trees and other plants in areas that are accessible to residents or the public.
- (d) Should consider co-locating near complementary amenities such as picnic benches, bbq areas, and/or community kitchens.

## **2.5 Community Kitchen**

### **2.5.1 Characteristics**

Community kitchens are designed for food skills programing including teaching and demonstrating food preparation, healthy eating and preservation skills. Community kitchens may also be used for preparing and serving meals and snacks to community members. Community kitchens can be organized to serve specific populations groups or people with dietary interests and function as community gathering place where space, skills and resources are shared.

Community kitchens are ideally suited in facilities such as neighbourhood houses or other social service facilities, community centres, social housing, or churches.

In some circumstances, contributions could be made to renewal or upgrading of an existing community kitchen or new community kitchen located off-site

For reference:

- City-affiliated facility kitchen design guidelines  
<http://vancouver.ca/files/cov/kitchen-design-guidelines.pdf>

## 2.5.2 Design Guidelines

Community kitchens function best when they are designed with all of their intended uses in mind. Comprehensive design considerations are outlined in the City-affiliated facility design guidelines document. At a minimum, ensure:

- (a) Sufficient space to accommodate a minimum of 12 people in a teaching environment.
- (b) Appropriate equipment (cold/freezer storage; dry storage; dishwasher and sink configuration, stove/oven and ventilation, sink configuration) for the intended use.
- (c) Adjacent multi-purpose space or room for eating and congregating.
- (d) Incorporation of enhanced accessibility features to accommodate wheelchairs, mobility devices and teaching and demonstration screens/aids.
- (e) Consider co-locating near complementary amenities such as picnic benches, BBQ areas, and/or community gardens.

## 2.6 Community Food Market

### 2.6.1 Characteristics

Community food markets are venues or sites that enable farmers or third party operators to sell healthy, fresh foods directly to the public. The emphasis for community food markets is on providing access to fresh, healthy and affordable foods to individuals and families who may not be able to afford to shop at a farmers market or have the means to travel to one. In some cases, community food markets provide opportunities to promote healthy eating for employees in large organizations or offices. Combined with unique public realm elements, they can contribute to vibrant public space while offering a focal point for residents and/or employees to gather.

Community food markets are ideally suited to facilities such as neighbourhood houses or other social service facilities, community centres, social housing, churches, or office spaces.

For reference:

- Administration of Community Food Markets (2014)  
<https://bylaws.vancouver.ca/Bulletin/bulletin-community-food-market-kitchen-rental.pdf>

### 2.6.2 Design Guidelines

- (a) The space provided should be sufficient for a minimum of ten (10) stalls or booths, with a minimum size of 3 m<sup>2</sup> for each stall.
- (b) Space can be provided indoor or outdoor, and if outdoor, a covered area would be encouraged.
- (c) The design of the area or structure should encourage social interaction and be publically accessible.
- (d) Consideration should be given to a design that is flexible for other uses.
- (e) Incorporate double receptacle outlets at a minimum of every 3 m, if stalls are 3 m wide.
- (f) Provide access to a class B loading bay without reliance on stairs.
- (g) Consider co-locating near complementary amenities such as picnic benches, bbq areas, gardens, and/or community kitchens

## 2.7 Farmers Market

### 2.7.1 Characteristics

Farmers markets bring together a community of farmers, fishers, artisans, and food producers who supply locally-grown foods to neighbourhoods. They provide several functions including: vendor sales, meal provision through food trucks, and live entertainment. Farmers markets may run during any season of the year and they can be held indoors or outdoors.

Many factors enable the success of a farmers market including location, size, accessibility for customers and vendors, and on-site infrastructure. There is typically no one factor that will cause a market to flourish and for that reason, there may be opportunity to modify the infrastructure listed below if there are many other strong elements for the proposed site. Farmers markets could occur on private or public land, including park, plaza or other open space.

There are a limited number of farmers in BC, and starting a new farmers' market location needs to be done thoughtfully to avoid over-saturating the market or causing loss of sales to BC farmers.

For reference:

- Farmers Market policy (2013)  
<https://guidelines.vancouver.ca/guidelines-farmers-market.pdf>

## 2.7.2 Design Guidelines

### Size

- An ideal space would allow for 45-50 vendors or more (15,000-25,000 sq. ft.). Sites that fit a minimum of 30 vendors could be considered, though ideally are able to grow over time.

### Location

- Visibility to and access by pedestrians, cyclists, and vehicle traffic is required.
- Consider business proximity. If further than 1.5 km from an existing business community, then the market should be a destination/larger scale market.
- Maintain a distance from existing farmers markets to avoid oversaturating the market.
- A flat surface grade is required.

### Power access

- Access to power ensures food safety especially for products such as meat, poultry, and eggs, and helps limit loud on-site generators.
- The number of vendors will dictate the number of power hook ups needed. E.g. for every 11 vendors, install 1 high voltage to support food trucks/coffee and 2 regular outlets to support freezers, refrigerators, etc.

### Access to water

- Vendors need water access for hand washing, cleaning, and food preparation.
- Preferably, in addition to a hose bib for water access, there is a handwashing station, ideally with hot water. The stations could also include a water fountain. For larger markets, a second water/handwashing station is beneficial.

### Vehicle access and vendor parking

- Farmer and artisan products can be very heavy and they must be able to unload product at the location where they will be selling. Most vendors will be arriving by car or truck.
- Larger/destination markets: the ability to park next to their vendor booths is required.
- Smaller/neighbourhood markets: Vendors may be able to unload and park nearby. In this case, a flow through design works best, allowing vendors to unload product and then exit via a second access point, and park nearby.
- For every vehicle that cannot be parked on-site, nearby parking must be available.

### Washrooms

- Vendors, staff, and volunteers may be on-site 8 hours or more. They must have washroom access.
- Nearby washroom access is also helpful for customers, including accessible stalls.

### On-site storage

- Farmers markets require large and heavy equipment including tents, tables, wagons, sand bags for tents, and at times road barricades.
- Larger/destination markets: require a minimum of 10'x20' on-site storage container or space nearby.
- Smaller/ neighbourhood markets require a minimum of 10'x10' on-site storage container or space nearby.

### Coverage from the elements

- Partial or full coverage are helpful in summer and winter alike. Consider alternate uses for the covered space to add advantage for other users.

Consider other value added amenities such as outdoor/indoor kitchen space to enable food demonstration and cooking classes and seating areas. Be aware of how the location of these elements may restrict access or layout, including vehicle access. Consider designing for additional uses of the space when the farmers market is not operating (e.g. festivals, performances, sports).

## **2.8 On-Site Organics Management**

### **2.8.1 Characteristics**

An on-site organics management system is used to process organic compostable materials (food scraps and yard trimmings) into products that can be beneficially used such as compost, mulches, and soil conditioners. The on-site system is intended for residents, restaurants or other commercial tenants to bring their food scraps to a communal system. Once decomposed, the compostable materials can be used as nutrient rich soil conditioners in local gardens.

Installation and use of an on-site system should be considered as an alternative or an additional option to complement any food scraps collection program used to divert compostable materials away from being disposed as garbage.

For reference:

- On-site Composting Technology Study - Information and examples of various composting systems available (2012)  
<http://www.metrovancouver.org/services/solid-waste/SolidWastePublications/MV-ON-SITECOMPOSTINGTECHNOLOGYREVIEWOct2012.pdf>
- Metro Vancouver On-site Organics Management Options Review Report (2014):  
[www.metrovancouver.org/services/solid-waste/SolidWastePublications/On-site\\_Organics\\_Management\\_Options\\_Review-Dec-14.pdf](http://www.metrovancouver.org/services/solid-waste/SolidWastePublications/On-site_Organics_Management_Options_Review-Dec-14.pdf)
- More information about on-site composting: <http://vancouver.ca/home-property-development/on-site-organics-management-systems.aspx>

### **2.8.2 Design Guidelines**

The applicant is encouraged to provide innovative infrastructure solutions and technologies to increase compostable organics management, while maintaining the end product (e.g. compost) for on-site use. There are different on-site systems available depending on requirements of the building.

Recognizing each system will have different specifications and requirements, applicant should consider whether the following features will be required to accommodate the on-site system:

- (a) Accessible to all users
- (b) Located on a relatively flat surface
- (c) Access to power

- (d) Access to water and sewer connection
- (e) Concrete pad
- (f) Cover
- (g) Ventilated
- (h) Fire Proofing/sprinkler
- (i) Odour and pest control
- (j) Sufficient size to match local garden, residence and/or retailer capacity

## **2.9 Other Food System Assets**

The City will consider other food asset proposals that are in accordance with the vision, principles and goals defined in the Vancouver Food Strategy and the Park Board Local Food Action Plan.

Opportunities for on-site delivery of food assets are preferred. Examples of possible off-site food assets could include:

- Funding to secure caretakers or operators of a food asset, or ensuring active programming and maintenance. (e.g. funding a non-profit organization to offer programming at a community kitchen). *Note that sites over 40,500 m<sup>2</sup> (ten acres) are required to provide this in addition to three food assets.*
- Contributions to a neighbourhood food network or non-profit organization to support food programming or infrastructure improvements to expand the organization's impact
- Contributions to community centre or park food assets

## **3 Green Mobility**

### **3.1 General Information**

For information on Transportation Demand Management Requirements, refer to the Parking By-law and the Administrative Bulletin: Transportation Demand Management for New Developments in Vancouver <https://vancouver.ca/files/cov/bulletin-transportation-demand-management-for-developments.pdf>

### **3.2 Submission Requirements, Additional Information**

#### **3.2.1 TDM Requirements**

The primary deliverable is a separate Transportation Demand Management (TDM) Plan or additional chapter within a Transportation Assessment and Management Study (TAMS) which outlines TDM measures that will be incorporated into the Development Project as well as information detailing how the program will be delivered. This is a requirement of the Parking By-law.

#### **3.2.2 Electric Vehicle Charging Requirements**

If applicable, evidence of compliance with electric vehicle charging requirements should be included in the project statistics tables or where other vehicular parking information is documented. Publicly accessible fast charging hub locations should be identified on site plans.

## **4 Potable Water Management**

### **4.1 Submission Requirements, Additional Information**

#### **4.1.1 Water Balance**

The water balance provides a framework for understanding and planning for an integrated systems approach to water resource management on the site and within its buildings. The aim

in taking the integrated water approach is to achieve sustainable, reliable and resilient water systems.

The water balance shall include input water sources including potable water, and rainwater, and outflows to the sanitary, combined, and storm sewers. The Water Balance shall be produced for the 'baseline' and 'proposed' scenarios and demonstrate compliance with the minimum potable water use reductions over baseline specified in D.3.2 and D.3.3, achieved by taking an integrated approach to water management at the site scale

#### 4.1.1.1 Indoor Potable Water Use Baseline

The indoor potable water use baseline shall be calculated using the specified fixtures, baseline flow rate/water use per flush values, duration and daily uses specified in Table 1 for the estimated occupancy. Where sufficient justification is provided, daily uses can be modified based on the proposed occupancy type(s) proposed for the building(s) or site. Occupancy shall be based on projected occupancy figures, or where not available, estimated based on floor area using the following:

- Detached Dwellings: 55 m<sup>2</sup>/capita
- Apartments: 35 m<sup>2</sup>/capita
- Commercial: 23 m<sup>2</sup>/capita

The indoor potable water use for the proposed scenario shall utilize the same number of occupants, fixture types, duration and daily uses as the baseline scenario. Potable water use reduction shall be demonstrated through the use of more efficient fixtures with a reduced baseline flow rate/water use per flush and/or supplementing toilet and urinal flushing with non-potable water.

Note: Calculations must be provided to quantify the volume of non-potable water sources collected and utilized to demonstrate compliance with the potable water reduction target.

**Table 1: Indoor Potable Water Use Baseline**

<b>Fixture Type</b>	<b>Baseline Flow Rate &amp; Water Use per Flush<sup>1</sup></b>	<b>Duration</b>	<b>Daily Uses<sup>2</sup></b>
Lavatory Faucet (for private use)	5.7 L/min	0.25 min	5
Lavatory Faucet (for public use)	1.9 L/min	0.25 min	3
Kitchen Faucet (non-residential)	8.3 L/min	0.25 min	1
Kitchen Faucet (residential)	6.3 L/min	1 min	4
Shower Head	7.6 L/min	8 min	1
Water Closet (Tank Type and Direct Flush) – Male	4.8 L/flush	1 flush	1 male
Water Closet (Tank Type and Direct Flush) – Female	4.8 L/flush	1 flush	3 female
Urinal (Tank Type and Direct Flush) - Male	1.9 L/flush	1 flush	2 male

<sup>1</sup> Baseline Flow Rates and Flush Cycle figures from the City of Vancouver Plumbing By-law.

<sup>2</sup> Note that daily use can vary based on type of occupant (i.e. Employees, Visitors, Retail Customers, Students and Residential). Daily uses may be adjusted as appropriate based on type of occupant.

#### 4.1.1.2 Outdoor Potable Water Use Baseline

The outdoor water use baseline shall be calculated using the most recent version of the LEED Outdoor Water Use Reduction Calculator or other approved method. The following instructions refer to the use of the LEED v4 Outdoor Water Use Reduction Calculator<sup>1</sup>.

The outdoor water use baseline shall be calculated by inputting the site’s proposed total landscaped area (including all pervious/landscaped areas, such as planted landscapes on structures) along with the historical average monthly rainfall and average monthly evapotranspiration (ETo) figures provided in Table 2 into the ‘Baseline Calculation’ tab in the LEED calculator.

**Table 2: Historical Average Rainfall and Evapotranspiration Rates for Vancouver**

Month	Historical Average Monthly Rainfall (mm) <sup>1</sup>	Historical Average Monthly Evapotranspiration (ETo) (mm) <sup>2</sup>	Watering Demand (mm)
January	207	14	-193
February	107	24	-83
March	123	41	-82
April	102	64	-38
May	75	92	17
June	68	105	37
July <sup>3</sup>	43	120	77
August	48	102	54
September	59	66	7
October	157	35	-122
November	234	18	-216
December	191	13	-178

<sup>1</sup> Source: Environment Canada Climate Normals 1981-2010 Station Data for Vancouver Oakridge ([http://climate.weather.gc.ca/climate\\_normals/index\\_e.html](http://climate.weather.gc.ca/climate_normals/index_e.html))

<sup>2</sup> Source: Farmwest Historical Average Data for Vancouver Airport (<http://farmwest.com/climate/et>)

<sup>3</sup> The month of July requires the greatest outdoor watering demand in the City of Vancouver.

The outdoor water use baseline is determined using the evapotranspiration figure for the month with the peak watering demand. For the City of Vancouver, the peak watering demand takes place in the month of July, and as such the baseline monthly outdoor potable water use shall be calculated as:

$$\text{Outdoor Potable Water Use Baseline (L/month)} = 120\text{mm} \times \text{Site's Total Proposed Landscaped Area (m}^2\text{)}$$

The outdoor water use for the proposed scenario shall be calculated using the ‘Landscape Water Requirement’ tab of the LEED calculator. The total proposed landscaped area shall be the same for both the baseline and the proposed scenarios unless sufficient justification is provided. Potable water use reduction shall be demonstrated through more water efficient plant type/landscape features, irrigation type and/or supplementing outdoor irrigation with non-potable water.

Note: Calculations must be provided to quantify the volume of non-potable water sources collected and utilized to demonstrate compliance with the potable water reduction target.

<sup>1</sup> LEED calculator <https://www.usgbc.org/resources/outdoor-water-use-reduction-calculator>

## 5 Groundwater Management

### 5.1 Submission Requirements, Additional Information

#### 5.1.1 Groundwater Management

Refer to the City's [Groundwater Management Bulletin](#).

## 6 Zero Waste Planning

### 6.1 General Information

#### 6.1.1 Mandatory Requirements for Zero Waste Initiatives

The site design must provide dedicated space to accommodate waste diversion initiatives, in addition to residual waste collection. Ample space allocations must be provided in all domains of occupancy – in the individual unit, within each building, and in shared public spaces. Detailed considerations for each type of development are shown below. The Zero Waste Design and Operations Plan must show how the application meets these design requirements.

Note: Multi-use buildings must meet the requirements contained in all relevant tables.

##### 6.1.1.1 Multiple dwelling complexes

Must provide:	
Each residential unit	<ol style="list-style-type: none"><li>1. Space for organics bin under the sink.</li><li>2. Space for recycling bins under the sink (Recycle BC program requires separation of paper, containers, glass).</li></ol>
Common areas (e.g. lobby and corridors)	<ol style="list-style-type: none"><li>3. Recycling and organics containers always placed with garbage containers (twinning).</li></ol>
Re-use, Recycling and Organics storage space in building	<ol style="list-style-type: none"><li>4. A sufficient number of carts/containers to meet the needs of the entire building.* <i>*see City of Vancouver -Garbage and Recycling Storage Facility Design Supplement <a href="https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf">https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf</a></i></li><li>5. Signage to instruct occupants on the appropriate use of the organics and recycling containers.</li><li>6. Create a program for managing reuse, recycling and removal of bulky items.</li><li>7. Programs to ensure items banned from disposable as garbage are not put in garbage <a href="http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx">http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx</a></li><li>8. Designed to ensure all waste collection day activities occur on-site (as opposed to placing bins onto City property for collection)</li></ol>
Exterior areas (e.g. public sidewalks, pathways and landscaping)	<ol style="list-style-type: none"><li>9. Infrastructure and maintenance plan to maintain a litter-free environment.</li></ol>



6.1.1.2 Office and retail buildings

<b>Must provide:</b>	
Each retail/office unit	<ol style="list-style-type: none"> <li>Design to accommodate recycling bin(s) in each working space.</li> <li>Provide a common area space that can accommodate recycling and organics carts.</li> </ol>
Common/public areas (e.g. lobby and corridors)	<ol style="list-style-type: none"> <li>Recycling containers always placed with garbage containers (twinning).</li> <li>Provision of organics containers with garbage and recycling containers where appropriate (eg. In eating/kitchen areas)</li> </ol>
Re-use, Recycling and Organics storage space in building	<ol style="list-style-type: none"> <li>A sufficient number of recycling and organics carts/containers to meet the needs of the entire building.* *see <i>City of Vancouver - Garbage and Recycling Storage Facility Design Supplement</i> <a href="https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf">https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf</a></li> <li>Signage to instruct occupants on the appropriate use of the organics and recycling containers.</li> <li>Programs to ensure items banned from disposable as garbage are not put in garbage <a href="http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx">http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx</a></li> <li>Designed to ensure all waste collection day activities occur on-site (as opposed to placing bins onto City property for collection)</li> </ol>
Exterior areas (e.g. public sidewalks pathways and landscaping)	<ol style="list-style-type: none"> <li>Infrastructure and maintenance plan to maintain a litter-free environment.</li> </ol>

6.1.1.3 Food Services

<b>Must provide:</b>	
Work spaces	<ol style="list-style-type: none"> <li>Design to accommodate convenient source segregation of organics, greases and recyclables in food handling and preparation work spaces.</li> <li>Allocate space for organics and recycling containers in all other work spaces.</li> </ol>
Customer/public spaces for food consumption	<ol style="list-style-type: none"> <li>Convenient customer/public source segregation of organics, beverage containers and other recyclables in clearly marked disposal containers (twinning) which follow Metro Vancouver's suggested colour schemes for material streams: <a href="http://www.metrovancouver.org/services/solid-waste/recycling-signage-campaigns/recycling-signage-colours/Pages/default.aspx">http://www.metrovancouver.org/services/solid-waste/recycling-signage-campaigns/recycling-signage-colours/Pages/default.aspx</a></li> </ol>
Organics and recycling storage space in building/complex	<ol style="list-style-type: none"> <li>A sufficient number of carts/containers to meet the needs of the entire building (including organics, grease and recycling).* *see <i>City of Vancouver - Garbage and Recycling Storage Facility Design Supplement</i> <a href="https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf">https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf</a></li> <li>Signage to instruct occupants on the appropriate use of the organics and recycling containers.</li> <li>Programs to ensure items banned from disposable as garbage are not put in garbage <a href="http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx">http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx</a></li> <li>Designed to ensure all waste collection day activities occur on-site (as opposed to placing bins onto City property for collection)</li> </ol>

Exterior areas (e.g. public sidewalks, pathways and landscaping)	8. Infrastructure and maintenance plan to maintain a litter-free environment.
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6.1.1.4 Large venues (greater than 2,000 visitors per day)

Must provide:	
Individual units	<ol style="list-style-type: none"> <li>Design to accommodate recycling bin(s) in each working space.</li> <li>Provide a common area space that can accommodate recycling and organics carts.</li> </ol>
Common/public areas (e.g. mall corridors, green spaces, public washrooms)	<ol style="list-style-type: none"> <li>Recycling containers always placed with garbage containers (twinning).</li> <li>Convenient customer/public segregation of beverage containers, organics and other recyclables in clearly marked disposal containers.</li> <li>Allocate space and provision of organics bins for staff or customers, as appropriate, to ensure organics diversion .</li> </ol>
Recycling/organics storage space in building	<ol style="list-style-type: none"> <li>A sufficient number of carts/containers to meet the needs of the entire building.* *see <i>City of Vancouver -Garbage and Recycling Storage Facility Design Supplement</i> <a href="https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf">https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf</a></li> <li>Signage to instruct occupants on the appropriate use of the organics and recycling containers.</li> <li>Programs to ensure items banned from disposable as garbage are not put in garbage <a href="http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx">http://www.metrovancouver.org/services/solid-waste/bylaws-regulations/banned-materials/Pages/default.aspx</a></li> <li>Designed to ensure all waste collection day activities occur on-site (as opposed to placing bins onto City property for collection)</li> </ol>
Exterior areas (e.g. public sidewalks and landscaping)	8. Infrastructure and maintenance plan to maintain a litter-free environment.

**6.1.2 Additional Zero Waste Actions: Recycling, Organics, and Waste Collection Systems**

Waste is generated at numerous points in a large development. It is expected that the system as a whole will be designed to facilitate zero waste (through waste avoidance, reduction, re-use, composting and recycling infrastructure, programs and services), increase collection efficiency and minimize GHG and other emissions.

The Zero Waste Design and Operations Plan must show how the applicant intends to meet this expectation by choosing and implementing at least seven of the initiatives listed below:

- Maintain space on-site for a re-use/freeware/materials exchange facility (shelving and signage) and for the temporary storage of bulky items (e.g. furniture). [Multiple dwelling complexes only]
- Facilitate establishment of on-site product stewardship take-back program or take-back depot (for large venues with public access).
- Installation of additional publicly accessible on-site diversion initiatives via non-profit/charitable programs for items such as clothing, textiles and used books.
- Engage a single hauler for all waste streams generated on site in order to reduce pick up vehicle trips.
- Reduce GHG emissions related to collection. Example: compactor systems to reduce trip frequency.

- (6) Provide a service or billing model that offers occupants incentives to reduce, re-use or recycle rather than to dispose waste.
- (7) Ensure that any residual waste is disposed in facilities operated by the City of Vancouver or Metro Vancouver.
- (8) Create “depots” on each floor for residents to centralize disposal of recycling and organics. [Multiple dwelling complexes only]
- (9) Implement waste reduction strategies in the design of public washrooms, such as hot-air hand-dryers instead of paper towels.
- (10) Space (in the recycling room) and collection programs for recycling of three or more provincial product stewardship programs (e.g. electronics, batteries, soft plastics, foam packaging). [Multiple dwelling complexes only]
- (11) Space and collection programs for recycling of three or more provincial product stewardship programs (e.g. electronics, batteries, soft plastics, foam packaging) [large venues or office and retail only].
- (12) Provide leading edge on site processing of compostable organic material.
- (13) Allocate space in the recycling storage area or in another common areas for an interoffice materials exchange, bulletin board, and zero waste information kiosk. [Office/retail only]
- (14) Allocate space to enable the reduction of disposable foodware (e.g. include space for dishwashers, reusable dishware storage and return in food service areas). [Food services only – e.g. food court]
- (15) Allocate space and implement a reusable bag or dish share program (Office/retail only)
- (16) Allocate space and outfit a designated area for residents to repair items for re-use. [Multiple dwelling complexes only]
- (17) Provide reusable dishware and a dishwasher for residents to use in shared common areas where food is consumed. [Multiple dwelling complexes only]
- (18) Specific innovation proposed by applicant that is an acceptable alternative to items listed here, as determined by the General Manager of Engineering.

### **6.1.3 Occupant/Public Education and Outreach Actions**

The provision of training and ongoing outreach to occupants of the development is a critical factor in the successful implementation of the Zero Waste Design and Operations Plan. Therefore the plan must include the following:

- (1) Educate new occupants, and all occupants annually, in the implementation of the zero waste initiatives and collection systems (as per Solid Waste By-Law). It may be necessary to provide a hands-on training program for large-scale occupants such as anchor retailers.
- (2) Direct occupants and the public to use the zero waste collection systems provided on site via use of signage and visual cues such as bin colour and shape.
- (3) Choose at least three of the following procedures and actions that provide occupants with continuous encouragement and support in implementing/participating in the Zero Waste Design and Operations plan:
  - (a) Employ a “Greencierge” or Zero Waste support staff to assist residents and business owners to adopt the most sustainable practices as possible. The Greencierge would be a staff resource to spearhead the zero waste effort, provide information, source products, track diversion rates, troubleshoot diversion problems, etc.
  - (b) Establish a building-level zero waste/sustainability team among occupants to engender a community culture around zero waste.
  - (c) Provide regular newsletters to occupants/tenants that report on successes and identify issues and challenges.

- (d) Establish a zero waste leadership award program for occupants on site and promote it.
- (e) Provide or facilitate annual on-site consultations on ways occupants can improve their performance.
- (f) Conduct an annual waste audit and share the results with occupants to assess additional opportunities for diversion.
- (g) Specific innovation proposed by applicant that is an acceptable alternative to items listed here, as determined by the General Manager of Engineering.

## **6.2 Submission Requirements, Additional Information**

### **6.2.1 Zero Waste Design and Operations Plan**

The Zero Waste Design and Operations Plan must clearly illustrate how the applicant will meet the City's requirements and how the plan will be implemented. The following are expectations and considerations that must be addressed in the plan. The applicant is encouraged to put forward additional or alternative ideas that meet the intent of this policy.

#### **6.2.1.1 Vision Statement**

The vision statement should reflect the intent of this policy – to facilitate achievement of the City of Vancouver's Zero Waste 2040 target by fostering waste reduction, by increasing diversion through re-use, composting and recycling, and by reducing GHG emissions in the design and operation of the proposed development's solid waste system.

#### **6.2.1.2 Description of Project and Diversion Objectives**

- Consideration of deconstruction opportunities and practices in the removal of any existing buildings on site, to reduce landfilled waste material and create opportunities for building material re-use and recycling;
- A summary of the types and number of units in the development (e.g. residential, retail, food, etc.);
- The types and estimated quantities of waste generated by unit type, consistent with City expectations for waste diversion in each type of unit;
- The types and estimated quantities of waste avoided/reduced/diverted, based on the proposed design and operations plan.

#### **6.2.1.3 Site/Development Infrastructure Design**

The site design should provide dedicated space to accommodate waste diversion initiatives (i.e., re-use, organics, recycling), in addition to residual waste collection. Ample space allocation should be provided in all domains of occupancy – in the individual unit, within each building, and in shared public spaces. The plan should show how the applicant intends to meet these design expectations.

**The plan must identify the seven specific zero waste actions that will be implemented from the list of options provided in this Admin Bulletin. The plan must provide implementation details for each planned action.**

#### **6.2.1.4 Operations**

The zero waste objective of this policy should be integrated into the design of the development's ongoing, post-construction operating systems. Therefore an operations component is required in the Zero Waste Design and Operations Plan that addresses the following.

### Occupant/Public Education and Outreach

The provision of training and ongoing outreach to occupants of the development is a critical factor in the successful implementation of the Zero Waste Design and Operations Plan. Therefore the plan should identify:

- How new occupants, and all occupants at least annually, (as required by the Solid Waste By-Law) will be educated in the implementation of the zero waste initiatives and collection systems. It may be necessary to provide a hands-on training program for large-scale occupants such as anchor retailers.
- How, through signage and visual cues such as bin colour and shape, occupants and the public will be directed toward using the zero waste collection systems provided on site.
- Procedures and actions that provide occupants with continuous encouragement and support in implementing/participating in the Zero Waste Design and Operations Plan.

The plan must identify which three actions from the list provided in the Admin Bulletin will be implemented.

### Facility Operations Training and Support

The success of the Zero Waste Design and Operations Plan will depend on regular oversight, education and enforcement on the part of the designated property manager.

Therefore the plan should indicate:

- Which zero waste actions will be implemented from the list of Recycling, Organics, and Waste Collection Systems list and how they will work operationally.
- How the property will be managed (i.e. directly by the applicant or by a property management firm).
- The responsibilities of the property manager.
- The steps taken to ensure that the property manager is trained to implement and oversee the plan.
- Identification of maintenance plans to ensure a litter-free environment.
- The documents or standard procedures that are used to train staff on zero waste initiatives.

Consideration should also be given to how the operations plan will be implemented with respect to the selection, training and oversight of janitorial services. Janitorial services in large complexes play a significant role in aspects of the collection system such as whether and how recyclables are segregated. Janitorial services can also be addressed in terms of the minimization of toxic cleaning products and reduction of cleaning related wastes, such as containers and paper toweling, and development of on-going litter collection programs.

### Plan Implementation Report

The applicant is expected to provide the City with a report on implementation of the Zero Waste Design and Operations Plan within 18 months of occupancy. The Plan should include confirmation of the intent to submit this plan, including details for how the report will be delivered and by whom.

#### 6.2.1.5 Value Added

The applicant is encouraged to consider innovative ideas that will enhance the Zero Waste Design and Operations Plan, such as smart metering for waste diversion measurement or centralized vacuum systems for waste removal.

The final prepared Zero Waste Design and Operations Plan should be structured so as to replicate all of the numbered headings and their sub-headings in this bulletin and should meaningfully address each of these headings.

## 6.2.2 Plan Implementation Report

The applicant is expected to provide the City with a report on implementation of the Zero Waste Design and Operations Plan within 18 months of occupancy. The implementation report shall include:

- Types and quantities of waste diverted.
- Types and quantities of waste disposed.
- Names and locations of recycling processing facilities, and landfills used.
- Identification of which seven zero waste actions were implemented and the successes and challenges associated with each.
- Description of on-site re-use options, product stewardship facilities, non-profit/charitable drop-off bins, etc. and estimates of amount of waste reduced through those initiatives.
- Overview of exterior litter removal program.
- Description of annual education initiatives undertaken.
- Summary of initiatives to reduce GHG emissions related to waste and diversion.
- Summary of any other initiatives undertaken to facilitate zero waste on-site.

### Additional References

- City of Vancouver Garbage and Recycling Storage Facility Design Supplement, Revised November 2016  
<https://guidelines.vancouver.ca/guidelines-garbage-recycling-storage-facility-design.pdf>
- City of Vancouver Solid Waste By-law 8417
- City of Vancouver Greenest City Action Plan 2020 (Goal 5: Zero Waste)  
[vancouver.ca/greenestcity](https://vancouver.ca/greenestcity)
- City of Vancouver Green Demo By-law  
[vancouver.ca/home-property-development/demolition-permit.aspx](https://vancouver.ca/home-property-development/demolition-permit.aspx)
- City of Vancouver Zero Waste 2040 Strategic Plan  
[vancouver.ca/green-vancouver/zero-waste-vancouver.aspx](https://vancouver.ca/green-vancouver/zero-waste-vancouver.aspx)
- Metro Vancouver's Banned and Prohibited Materials List (see Metro Vancouver web-site)
- Extended Producer Responsibility (EPR) Stewardship Programs (see Recycling Council of BC website).

## 7 Affordable Housing

### 7.1 General Information

The Affordable Housing requirements in the Rezoning Policy for Sustainable Large Developments is one of the mechanisms outlined in the 10 Year Affordable Housing Delivery and Financial Strategy to deliver deeper affordability for moderate- and lower-income households. Its purpose is to contribute to the delivery of the “right supply” of housing as set out in the Housing Vancouver Strategy (2018-2027).

Applicants should meet with City staff at the pre-application stage to discuss the appropriate mix of incomes, household types and tenures.

Set out below are further details with regards to the Affordable Housing requirements for large developments:

#### 1. Secured Rental and Below-Market Rental Housing

A minimum of 10% of total residential floor area is required to be secured as rental housing. Within this 10%, the target is to secure all of the floor area as below-market

rental housing, however the amount of below-market rental housing is subject to project viability and provision of other community amenities on site evaluated on a case by case basis through detailed site planning. Regardless of viability and provision of other amenities, a minimum of 25% of the 10% of total residential floor area will be secured as below-market rental housing.

Below-market rental units may be privately owned, however the units will be secured as rental housing with below-market rents through a Housing Agreement with the City for a term of 60 years or the life of the building, whichever is greater.

## **2. Affordability in Below-Market Rental Housing Units**

The below-market rental housing target (10% housing target) is designed to encourage the delivery of secured affordable rental housing targeted to moderate income households. The maximum starting rents for below-market rental housing units, by unit type, are secured at rates that do not exceed 20% less than the average rents for the City of Vancouver as published by the CMHC. For further information on below-market rental housing requirements for project proponents, including current applicable rents, refer to the [Rental Incentive Programs Bulletin](#).

For large sites projects that include below-market rental housing in the West End, the below-market rental housing requirements outlined in the [West End Rezoning Policy](#) will apply.

## **3. Consideration for alternate delivery of affordable housing requirements**

Inclusionary housing requirements for large developments are a minimum of 30% of total residential floor area set aside for affordable housing comprising a 20% social housing target and a 10% secured rental and below-market rental housing target. Developing large sites is complex and each site has a unique set of opportunities and constraints. Unencumbered dirt sites are the priority mechanism to enable the delivery of the minimum 20% social housing.

In special circumstances all or some of the social housing requirement may be delivered with ownership transferred to the City in the form of an Air Space Parcel. In these circumstances supporting evidence must be provided by the proponent to demonstrate that the requisite unencumbered dirt site cannot be provided. Evidence may include supporting drawings, legal or technical information and should be presented at pre-application stage. An example of an exception site may be high-density areas where separating out a largely residential land parcel in a mixed-use development is not feasible.

On complex sites, the General Manager of Planning, Urban Design and Sustainability may recommend alternative approaches to Council when there is clear rationale in the context of the project. If an alternate approach to delivery of the affordable housing requirements is proposed, that approach must demonstrate clear progress towards Housing Vancouver objectives and targets.

## **4. Affordable Housing Design**

Both social housing and secured rental and below-market rental housing must be provided designed in accordance with all applicable City by-laws and policies.

The design of the social housing must comply with the Housing Design and Technical Standards (see: <http://vancouver.ca/files/cov/housing-design-and-technical-guidelines.pdf>). This document provides guidance on a broad range of topics including:

- Location and Site Planning
- Indoor and outdoor Amenity Spaces
- Dwelling Unit Floor Areas

- Wheelchair Accessible and Adaptable Units
- Energy and Environmental Design
- Crime Prevention Through Environmental Design
- Construction Standards

### **Additional References**

The City of Vancouver's overarching strategic direction for affordable housing, and related policy and guidelines include:

- Housing Vancouver Strategy (2018-2027): <http://council.vancouver.ca/20171128/documents/rr1appendixa.pdf>
- Affordable Housing Delivery and Financial Strategy (2018-2027): <http://vancouver.ca/files/cov/affordable-housing-delivery-and-financial-strategy.pdf>
- Housing Design and Technical Guidelines: <http://vancouver.ca/files/cov/housing-design-and-technical-guidelines.pdf>
- Rental Housing Stock ODP: <https://bylaws.vancouver.ca/ODP/odp-rental-housing-stock.pdf>
- Tenant Relocation and Protection Policy: <http://vancouver.ca/files/cov/Tenant-relocation-and-protection-policy.pdf>

## **7.2 Submission Requirements, Additional Information**

At the time of rezoning application, provide the following that show how the affordable housing requirements will be achieved:

- Summary table demonstrating how the minimum 20% social housing target will be met including:
  - total proposed residential floor area for the development
  - proposed residential floor area set aside for social housing
  - assumptions regarding unit type (i.e. number of bedrooms) and size etc. which were used to determine the site size to be transferred to the City
- Summary table demonstrating how the minimum 10% secured rental and below-market rental housing target will be met including:
  - total proposed residential floor area for the development
  - proposed residential floor area set aside for secured rental housing and below-market rental housing
  - proposed unit types, sizes and associated rental rates
- If applicable, a Tenant Relocation Application Form and supporting documents (<http://vancouver.ca/people-programs/tenant-relocation-resources-for-owners-and-developers.aspx>)
- If the proponent is proposing an alternative delivery option for the minimum 30% requirement than what is outlined above, written rationale for why the requirement cannot be met as outlined in this policy and proposed alternate approach with associated floor area for affordable housing, unit types and sizes and proposed rental rates.

At the time of development permit application:

- Updated summary tables demonstrating how the minimum 20% social housing target and minimum 10% secured rental and below-market rental housing target will be met.
- If applicable, an updated Tenant Relocation Plan and supporting documents.