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Section 1.0

Introduction

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1.1 Project Team



Co-Owner & Developer

PCI Developments is a privately owned Vancouver, B.C. based real estate developer & investor guided by core values of integrity, discipline, vision and innovation. PCI has invested in and/or developed over 6 million square feet of real estate, including some of Metro Vancouver's most prominent urban landmarks.

PCI is a notably experienced and skilled proponent of mixed-use and transit-oriented development that often works in partnership with institutional, public or private investors. For over three decades, PCI's commitment to their core values has yielded some of Metro Vancouver's most notable developments, often involving innovative solutions for highly complex sites.

Structural Engineer

Mechanical Engineer

Electrical Engineer

Transportation

Code Consultants

Civil Engineer

Geotechnical Engineer

Elevating Device Consultant

Waste management

Sustainability

Public Art

Indigenous Advisory

Co-Owner & Community Manager

Low Tide Properties is a private real estate investment, development, and management company founded in 2011 and headquartered in Vancouver.

Their approach to development is to think long-term and think about community. They are committed to growing, strengthening, and reviving neighborhoods to reach their full potential.

Low Tide acquires industrial, retail, office and multifamily residential properties and is committed to creating visionary spaces.

Glotman-Simpson Consulting Engineers

Introba

Smith + Andersen

Bunt & Associates Engineering

Jensen Hughes

InterCAD Services

GeoPacific Consultants

Gunn Consultants

Target Zero

Perkins&Will

Ballard Fine Art

Aubin Consulting

Perkins&Will

Architect

Since 1935, Perkins&Will have believed that design has the power to make the world a better, more beautiful place.
At our Vancouver studio, a culture of collaboration fosters our creativity: we are one team with a common set of goals and values. The ideals of beauty, simplicity, functionality, and sustainability.



Landscape Architect

PFS Studio is a leading Canadian planning, urban design and landscape architecture firm offering consulting services nationally and internationally on a wide range of projects for both the public and private sectors. The firm has been in practice for over thirty years and is committed to innovation, technical advancement and cost effective design solutions to create memorable and engaging public spaces.

1.2 Project Proposal

This document puts forward proposals from PCI Developments and Low Tide Properties for Lots 6, 7, and 8 of Lot Q on Great Northern Way. Designed by Perkins&Will with input from Bunt Engineering and PFS Studio, our team's vision builds on our award winning history in this evolving neighborhood.

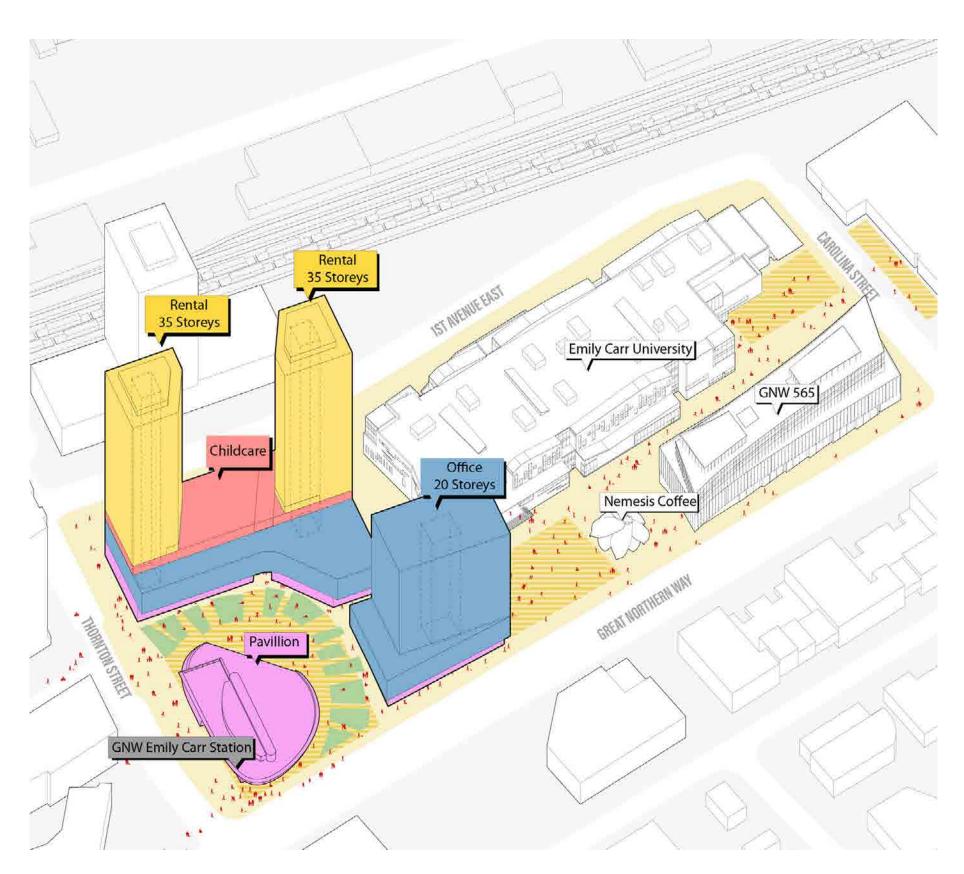
Our proposal encompasses three primary new buildings: providing approximately 877,427 sq.ft (81,515 sq.m) of mixed-use development, including space for commercial offices, ground-activating retail, and childcare.

In addition to commercial space, we are proposing approximately 433,178 sq.ft (40,243 sq.m) of new secured rental housing (including 20% at below market rental) and amenity.

PCI Developments has coordinated closely with the Province due to close integration with the new Great Northern Way - Emily Carr Station which is being constructed on the site as part of the Broadway Line. Organized around the new station, the project proposes an important new primary public open space for the benefit of the surrounding burgeoning community.

Finally, a host of secondary spaces - with new uses, active frontages, and public art, are envisioned to enliven and enrich the economic, cultural, and demographic cross-section of the urban realm within the False Creek Flats.

These new proposals tie several surrounding pieces of the Lot Q district together, forming the centerpiece of the Great Northern Way Campus and Creative District. Multi-use and walkable, our new proposals will contribute to the delivery of an active, productive, and populated city quarter; a place for people to live, to start new business, and to enjoy their city with spectacular views of the downtown core and connections to the rest of Vancouver.







1.3 Program Overview

1. Public Realm

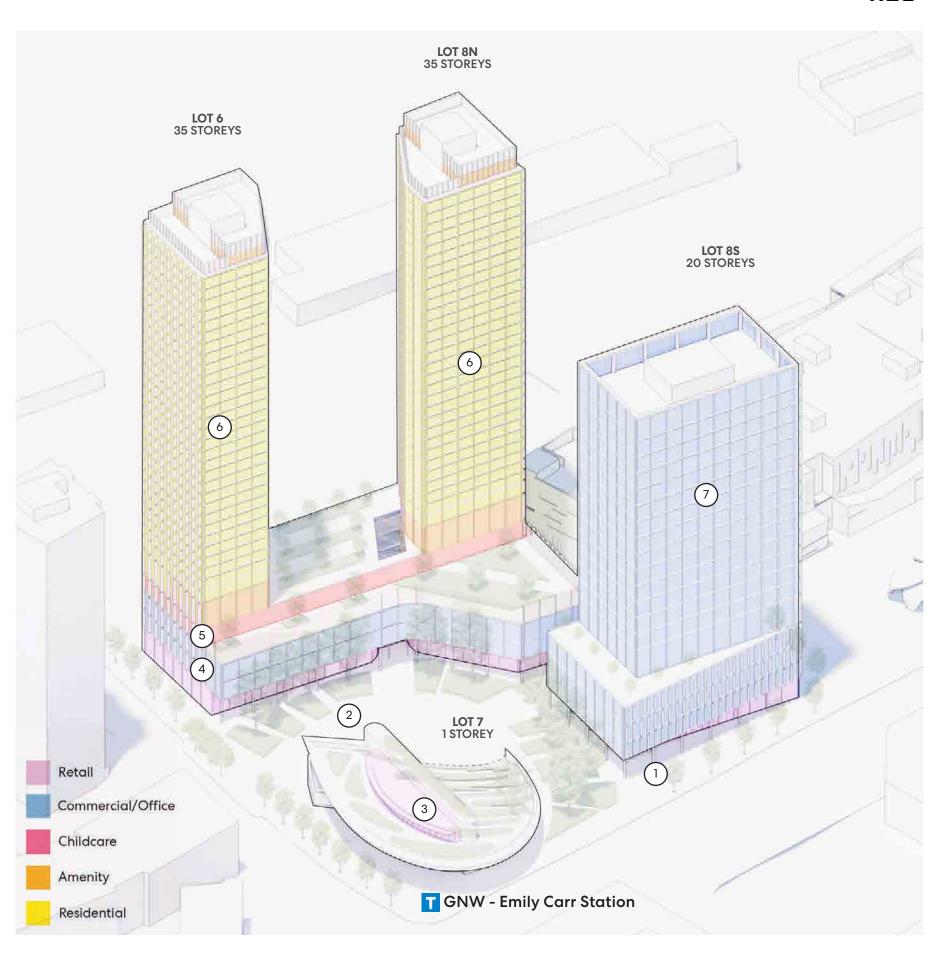
The project proposes the creation of a large at-grade public open space embraced by building forms that wrap around the north and east sides to create a sense of enclosure and place. The area of the public open space maintains the 0.49 hectare Open Space requirement previously located on Lot 6 as per the Lot Q Structure Plan (2002).

2. Active Ground Plane

At-grade, retail and a lobbies activate the base of each building further contributing to a dynamic and lively place. This supports the intent of the Broadway Plan for sites designated as 'Large and Unique Sites' to redevelop as denser, mixed use developments, creating hubs of round-the-clock vitality.

3. The Station Pavilion

Lot 7 offers a high-profile opportunity to integrate with transit at the site's south-west corner. The future Great Northern Way - Emily Carr Station will be a key transportation node within the community and as such draw the attention of large amounts of pedestrians. Integrated with this station, the proposed design of Lot 7 is intended to directly respond to the needs of the community and to create high quality indoor and outdoor spaces that add to the surrounding public realm. The proposal for the Station Pavilion aims to establish a valuable architectural landmark along Great Northern Way.



4. Commercial Base (Lots 6 & 8N)

This proposal includes a shared commercial base between Lot 6 and Lot 8N that spans across the top of the guideway of the Broadway Subway line below. These larger podium floor plates can allow for a range of activities fostering innovation within and area designated within the Broadway Plan as the Creative District. The applicant is seeking general office classification to encourage flexibility in accommodating rapidly evolving innovation industry and education uses.

With a Podium Height of approximately 22 meters (72'2"), the 3 storeys above grade present the opportunity for commercial space while hosting the childcare indoor and outdoor space on the top. The average floor plate size is approximately 38,000 sq.ft (3,530 sq.m)

5. Childcare

Provision of childcare facilities is recommended for this site under the Broadway Plan (Sections 10.31.5, 16.11). The proposal provides approximately 94 spaces. The childcare is positioned atop the commercial base with contiguous outdoor play area on the roof.

6. Rental

Two residential towers sit above the commercial program on Lots 6 and 8N to deliver much needed housing with the opening of the new GNW-Emily Carr Station. These rental buildings, providing 100% secured rental accommodations with 20% of the units designated as below-market rental. Section 12.2.12 of the Broadway Plan allows for sites designated as 'Large and Unique Sites' to support additional height and density to support new housing choices.

A total of 548 Residential Units are proposed with 20% of units (110 units) as below-market rental units. A tower floor plate size of up to 7200 sq.ft (670 sq.m) with an overall building height of 35 storeys approximately 113 meters (371'1").

7. Office

Lot 8S includes a dedicated to office building to deliver a significant amount of new job space to the emerging Creative District. The proposed building is 20 storeys with a larger 3 level base that provides a massing relationship to adjacent Lot 6 and 8N as well as neighboring buildings 565 Great Northern Way and Emily Carr University.

Between the lower base and tower floors, Level 4 is dedicated to office amenity providing both indoor and outdoor terrace space. Lot 8S has a typical tower floor plate size of 13,200 sq.ft (1225 sq.m) with an overall building height of 93 meters (306'3").

8. Parking and Loading

The proposal is serviced by five levels of underground parkade, which is constrained and dissected by the provision of the Broadway Line Subway, GNW - Emily Carr Station, and sewer SRW. There is potential to connect through to the parkade adjacent on 565 Great Northern Way. These five levels provide bike and vehicular parking, loading bays, residential unit storage, mechanical and electrical services spaces and waste and recycling rooms. There is direct access from P1 to the subterranean cultural space on Lot 7. The project is supported by a comprehensive TDM Plan B aimed at maximizing the utility of sustainable transportation choices.



Section 2.0

Context

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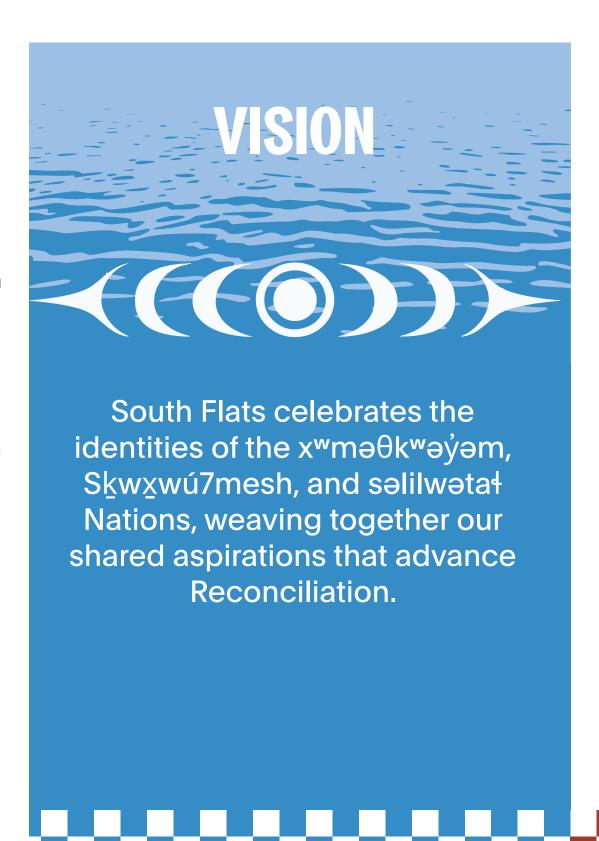
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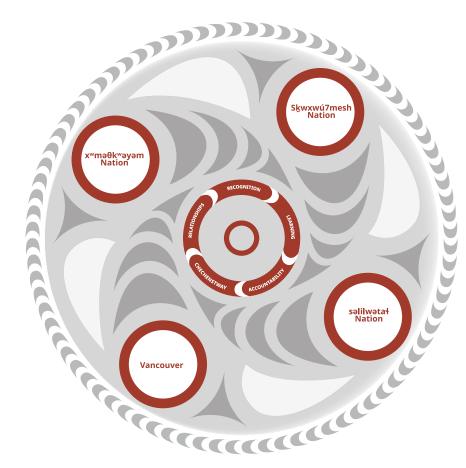


2.1 Indigenous Engagement

PCI Developments have established an Indigenous Advisory Committee (IAC) led by Aubin Consulting to provide consultation and facilitation throughout the Indigenous Engagement process. This engagement will have a precinct wide focus, including both this site at GNW-Emily Carr Station and the site at Great Northern Way at VCC-Clark Station. Exploratory workshops and engagement sessions have taken place to introduce the vision for both projects to the Committee and discuss areas of opportunity for Indigenous Engagement. This includes but is not limited to opportunities with the public realm and landscape, the buildings, the development of the cultural ribbon as was conceptualized in the precinct charette and overlap with the Public Art process. A submission will be made by the IAC to the City of Vancouver outlining the vision for Indigenous Engagement outside of the Rezoning process and the results of which will be folded into the design both in terms of overall philosophy and with specific interventions. This will form part of the subsequent Development Permit Application for each project.



GUIDING PRINCIPLES



Learning

Listening with intent while fostering space for co-learning and unlearning

Chechénstway

Lifting each other up along this journey

Recognition

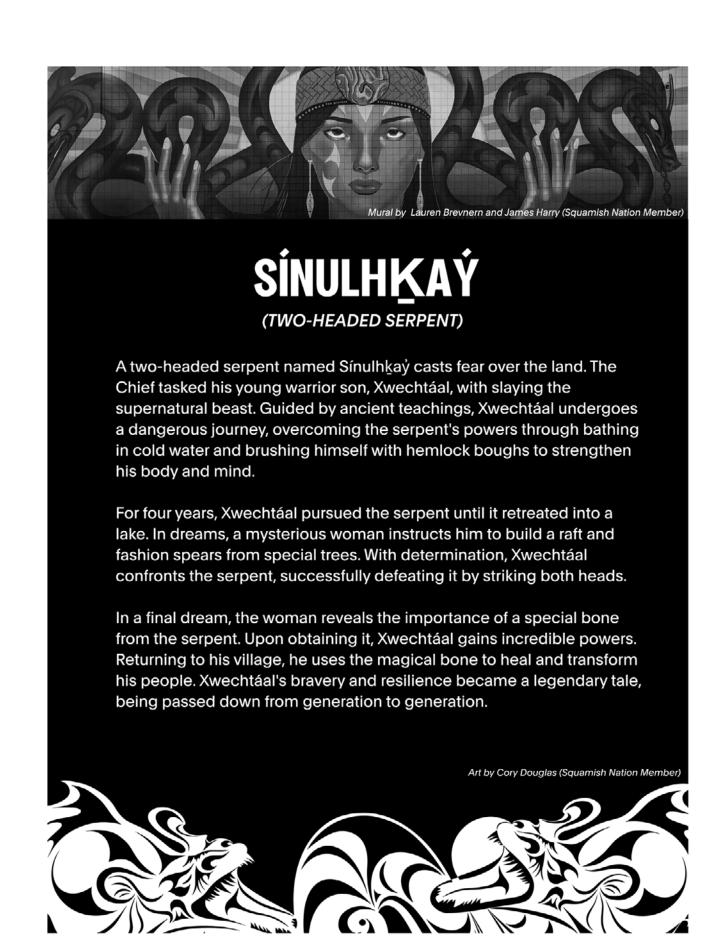
Making visible the culture, history, and identifies of x*məθk*əyəm, Skwxwú7mes, and səlilwətał Nations

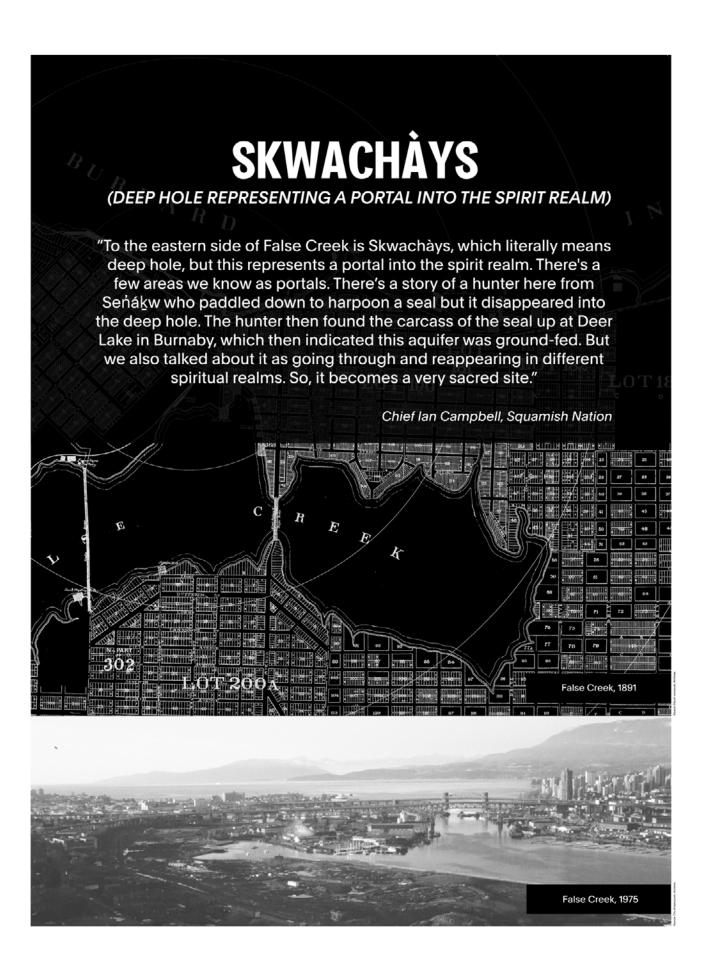
Relationships

Paddling together: Strenghtening relationships through thoughtful processes

Accountability

Using seven generation thinking to guide accountability









2.2 Regional Context

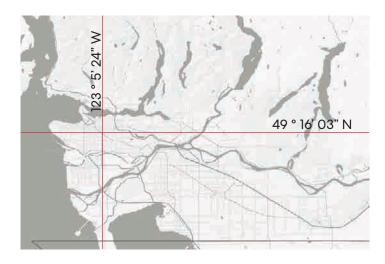
Located on the southern edge of the Flats, the Creative Campus is well-served by transit. Already home to two stations, serving both the Expo and Millennium lines, this area will see another station built as part of an extension of the Millennium Line along Broadway.

The area is centrally located within an emerging cluster of the innovation economy stretching down Main Street from Railtown in the north to Mount Pleasant in the south, with the sub-area anchored by the emerging institutional campus at Great Northern Way.

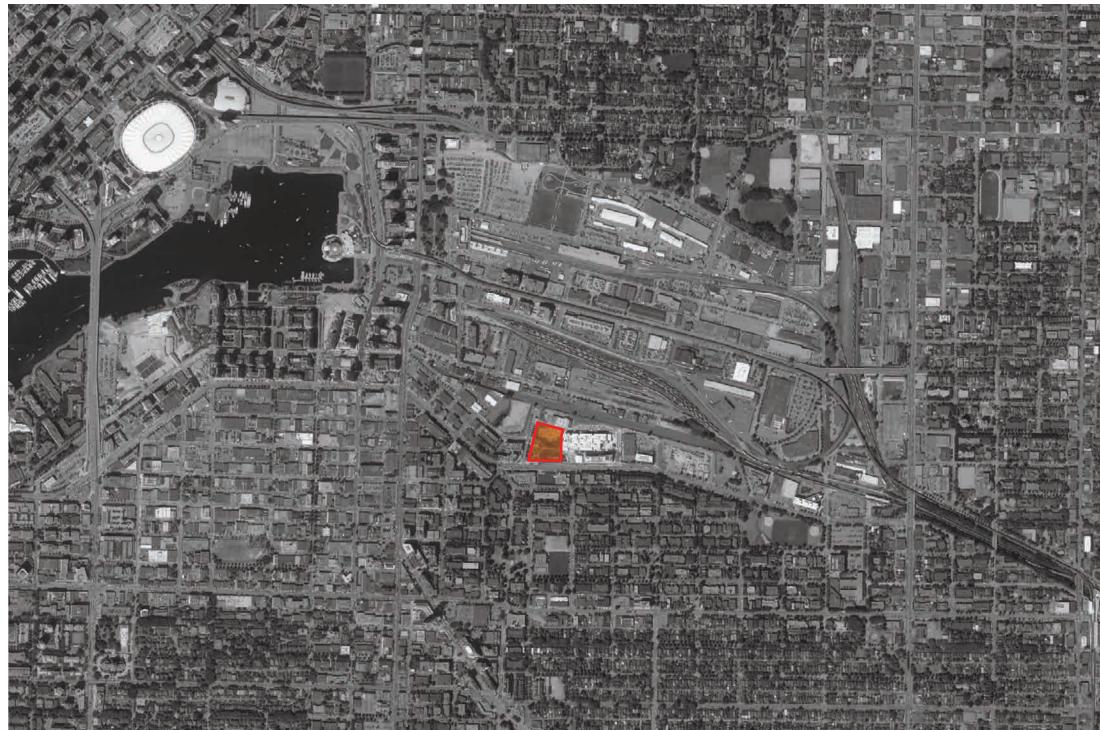
This campus includes the Emily Carr University of Art + Design (ECUAD, opened 2017) as well as the Centre for Digital Media (CDM, opened 2012), a Master degree program jointly offered by the four institutions at Great Northern Way: ECUAD, the University of British Columbia (UBC), Simon Fraser University (SFU) and the British Columbia Institute of Technology (BCIT).

Drawn to the industrial character and emerging campus, a number of art galleries have recently relocated to the area joining a long-standing cluster of automotive repair and service businesses. Other recent arrivals include a new campus for Columbia College and a large brewery for Red Truck Beer.

- False Creek Flats Plan (2017)



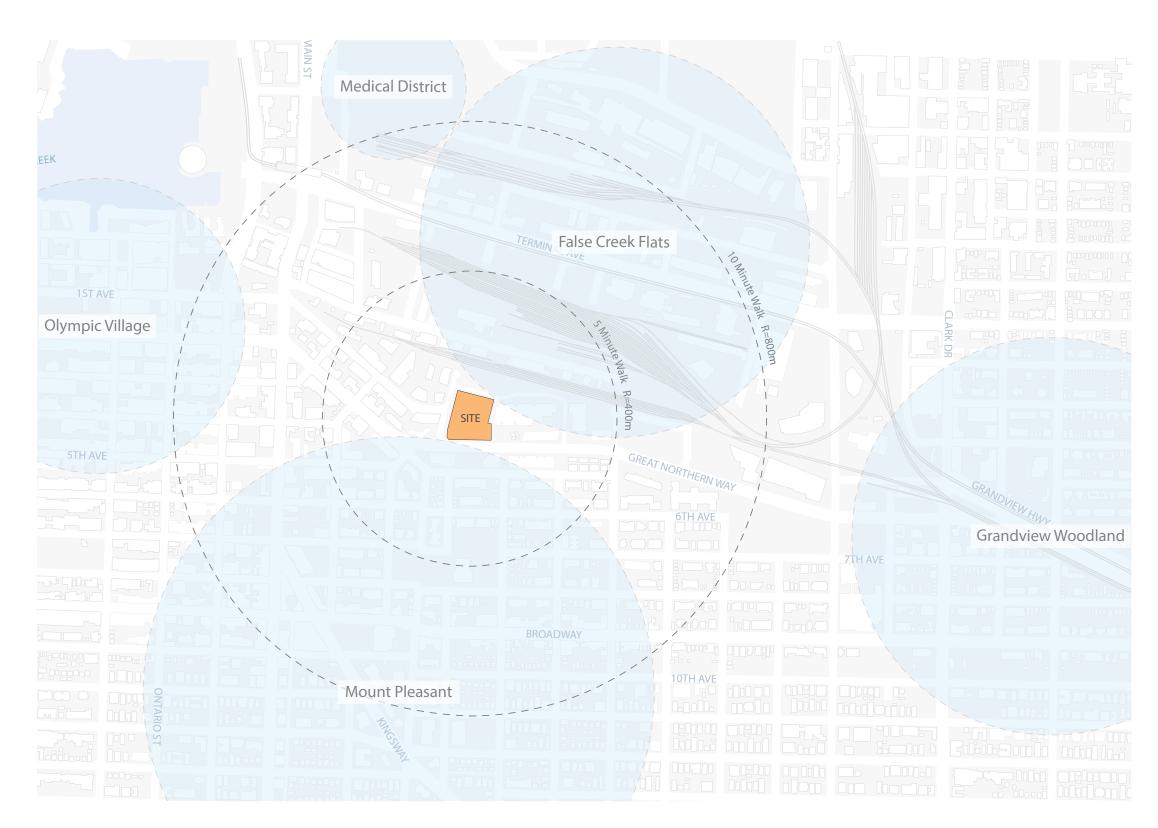
The project is located within the unceded homelands of the x^wməθk^wəyəm (Musqueam), Skwxwú7mesh (Squamish), and səlilwətal (Tsleil-Waututh) (MST) Nations.





2.3 Urban Context

The site is located at the interface between the residential Mount Pleasant neighborhood to the south and the industrial False Creek Flats area to the north. With the railyard to the immediate north of the site, permeability to the northern neighborhood is limited and connectivity with the southern residential neighborhood is increased. Northern connections may be improved in the future with the potential redevelopment of railyards.









2.4 Historic Context

Approximately 8000 years ago, groups of First Nations began harvesting salmon in the Fraser Canyon, and for 3000 years they utilized the resources of the future Vancouver area. Three Salishan groups have overlapping claims to the Vancouver area as a traditional territory; the Squamish, the Tsleil-Waututh and the Musqueam. (Vancouver Historic Society.) The first recorded encounter between First Nations and Europeans was from ships by the Spanish and English in 1791 and 1792 respectively. The modern city of was founded on these traditional territories and the City of Vancouver recognizes that these territories were never ceded through treaty, war or surrendered.

The site and project is on the land traditionally known as Skwachays, now occupied by Great Northern Way and the Creative District. Sitting at the base of Mount Pleasant on the edge of the larger False Creek Flats area, the site is a drained tidal flat that has been used as railyards for much of Vancouver's history.

By 1886 Vancouver was incorporated as a City, and in 1887 the transcontinental railway reached Vancouver.

Following the great fire in Vancouver in 1886, settlement increased on the south shore of False Creek.

By the 1920's False Creek had become the industrial hub for Vancouver, home to sawmills, shingle plants, shipyards, and manufacturing.

Decades of logging and development transformed the landscape of the south shore of False Creek. Streams once traveled near the site on St. George St. and Brunswick St.



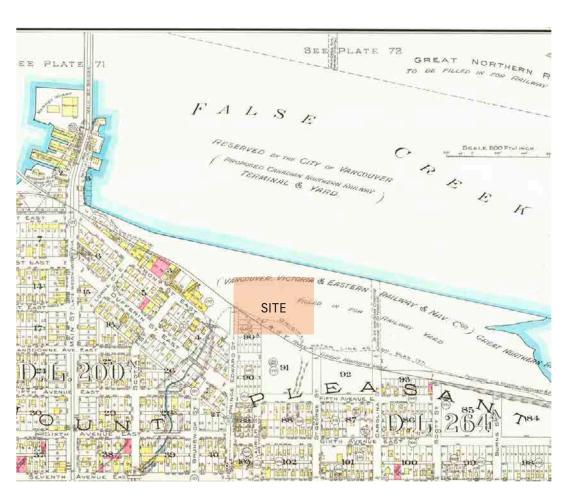
Vancouver's Old Streams
1978 - Sharon Proctor



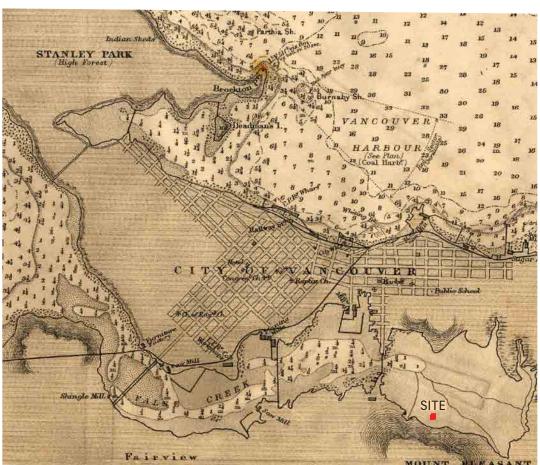
Fairview looking west across False Creek
1890 - Vancouver Archives



Freight Sheds on False Creek Flats
1919 - Matthews, Vancouver Archives



Goad's Plan, 1912



Burrard Inlet Admiralty Chart, 1893

2.5 Current Context

In 2001, the industrial distributor Finning International donated 7.5 hectares (19 acres) of former industrial land in the False Creek flats area of Vancouver to the Great Northern Way Campus Trust (GNWC) formed by the four academic partner institutions (the University of British Columbia, Simon Fraser University, Emily Carr University of Art and Design and the British Columbia Institute of Technology). The goal of this trust is "to cover the costs of future educational programs and buildings at the False Creek flats with revenues generated by private sector development." The Vancouver Sun (Nov 17, 2001)

GNWC built a new Centre for Digital Media building on the east side of the property. The building includes teaching facilities, office space, meeting and event spaces and 76 student housing units. It opened in September 2012.

In 2017, The Emily Carr University of Art + Design moved into a newly built, state-of-the art campus at Great Northern Way.

In 2018, 565 Great Northern Way (built by PCI/Low Tide) opened, immediately leased with a diverse offering of technological and office tenants supportive of the Flats economies and the adjacent educations institutions.

In 2021, Nemesis Great Northern Way (built by PCI/Low Tide) was opened, offering a much-needed destination cafe/restaurant in an award-winning pavilion in the central plaza.



Emily Carr University, Diamond Schmitt, c. 2017



555/565 GNW and Pavilion



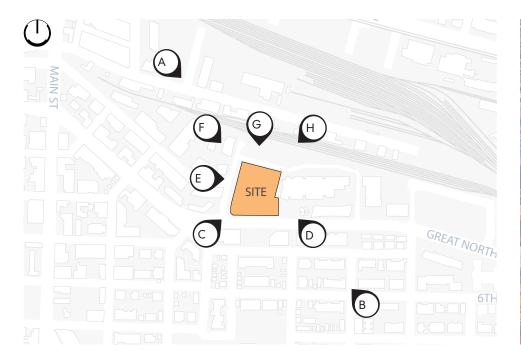


2.6 Photos and Existing Streetscape

The site's front lot line along Great Northern Way is elevated relative to the rear and separated from the busy arterial by the Central Valley Greenway bicycle route. The site is surrounded on two sides by new development. To the east, the new Emily Carr University Campus, and to the West, new multistorey residential.



A. View toward site from the north west

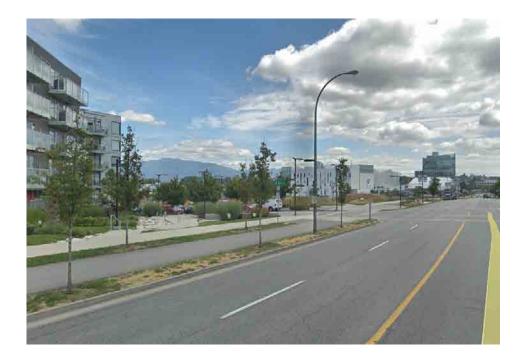


Streetscape Photo Key Plan



B. View from Great Northern Way looking north

Photos and Existing Streetscape



C. View from Great Northern Way looking north-east



E. View from Thornton St looking east



G. View from E 1st Ave looking south



D. View from Great Northern Way looking north-west



F. View from Thornton St looking east south-east



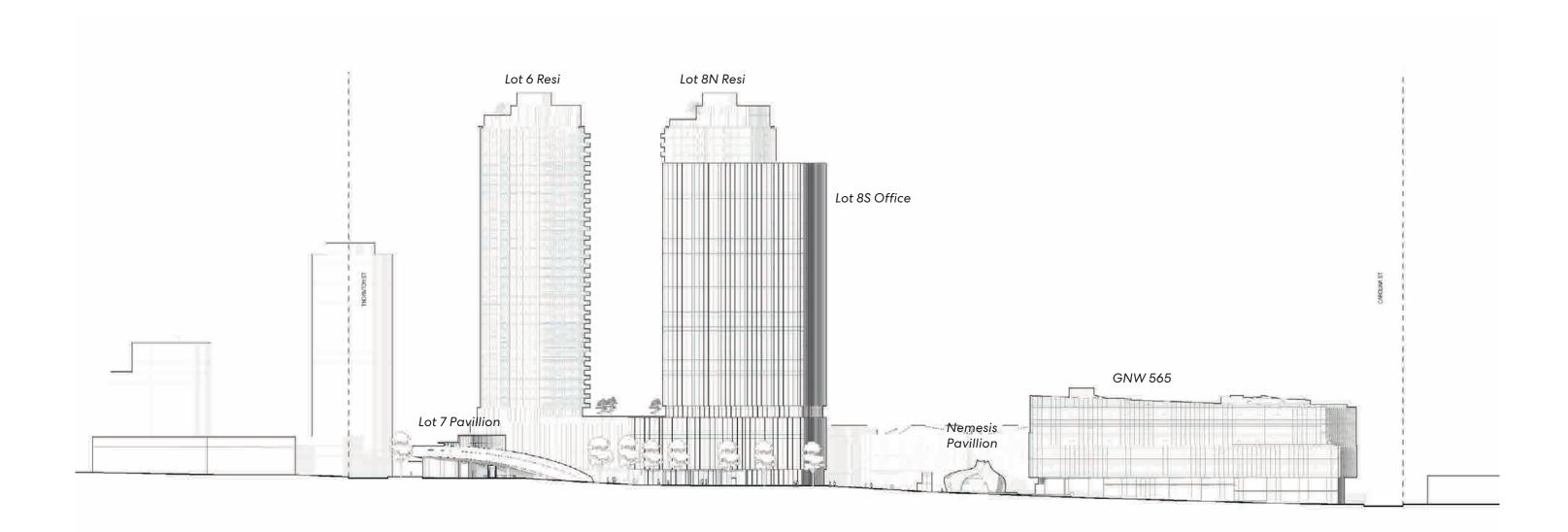
H. View from E 1st Ave looking south-west



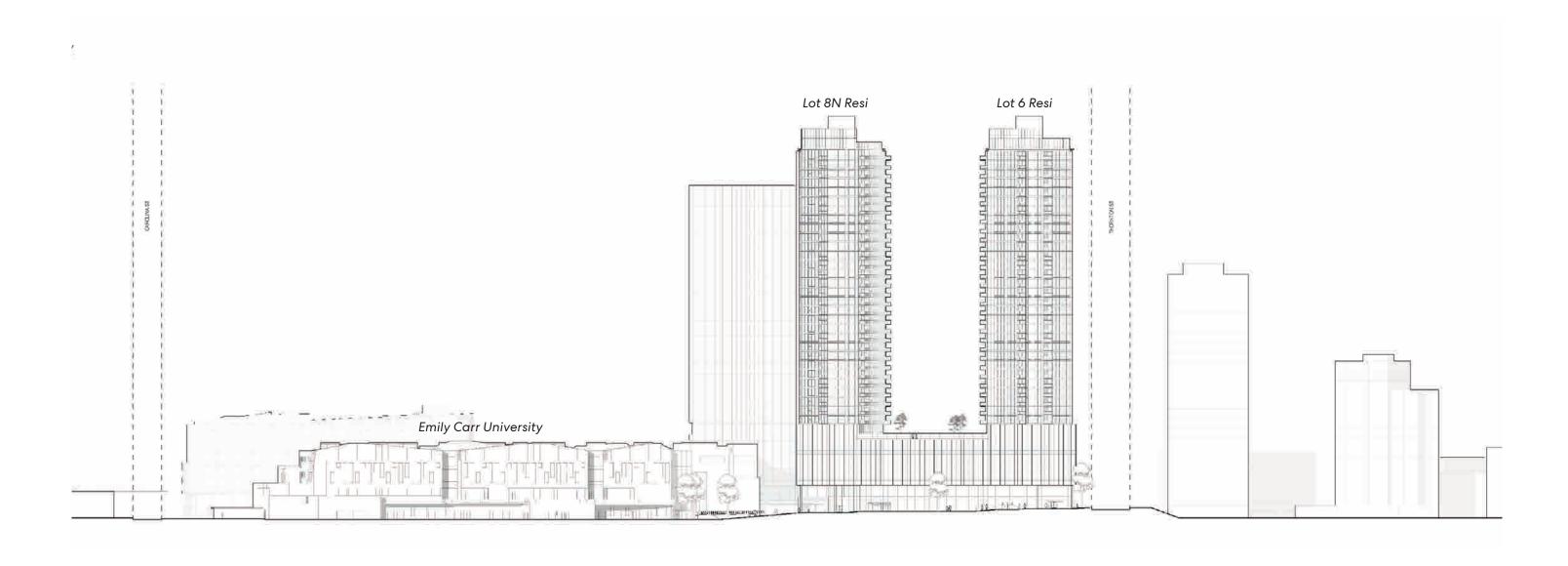


2.7 Site Elevations

The site is bound by Great Northern Way to the south, GNW Campus to the east, E 1st Ave to the North, and Thornton St. to the West. To the south, grades increase significantly. To the north, the flats accommodate current and former industrial uses. Great Northern Way slopes significantly from west to east as illustrated in the development of 565 Great Northern Way.



Site Elevations







2.8 Pedestrian and Cycling

The 24km long Central Valley Greenway runs along Great Northern Way and the internal pedestrian spine. It is a major component of Metro Vancouver's active transportation network and provides connections between downtown Vancouver and eastern neighborhoods all the way to Burnaby and New Westminster. One of the key design elements for developing the site is relocation of Central Valley Greenway from running through middle of the campus and integrate this vital route with public space and transit station within the site boundary.





-- Walking Radius

· · · Current Bike Iane Cross The Site

Application Proposed Bike lane

Protected Bike lane

-- On-Street Bike lane

2.9 Public Transportation

The site is well connected to major transportation networks in the city.

The development shares a site with the future GNW-EC station of the Broadway Subway. Once completed, this station will dramatically increase the site's prominence and connectivity to the greater region.

Great Northern Way, along the site's southern edge, is a major east-west arterial road, connecting East Vancouver to downtown.



Bus Route

SkyTrain Route Expo Line

— SkyTrain Route Millennium Line

-- Future Broadway Subway

O Future Skytrain Station

O Expo Line Skytrain Station

Millennium Line Skytrain Station

5 Minutes Walk Radius

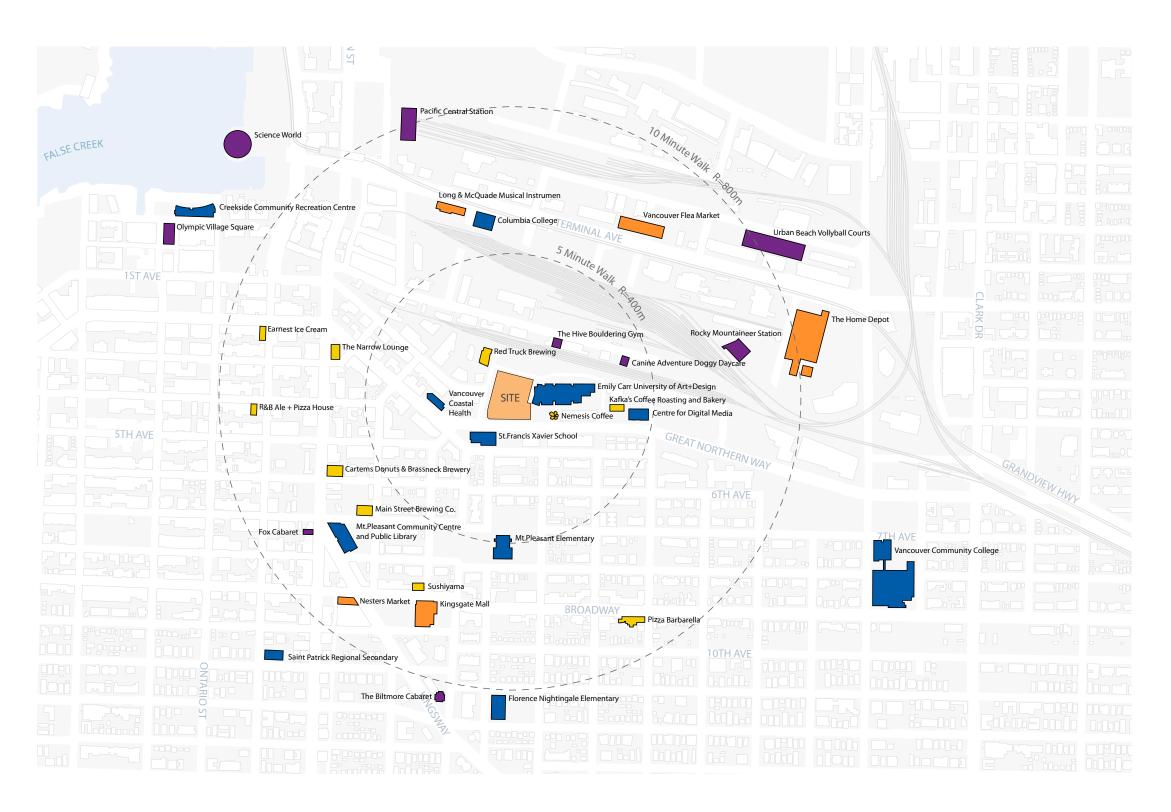






2.10 Public Amenities/Services

The Site's location on the rapidly developing Great Northern Way campus places it at the heart of a flourishing neighborhood hub with access to all the associated amenities and services that go along with that position. The adjacent Mt. Pleasant community is a cultural leader in Vancouver. Home to many of the cities most celebrated restaurants, breweries, and entertainment venues.



Site

Food

Retail

Public Amenities

Service / Venue

2.11 Zoning Districts

The site is in a CD-1 zoning district, acting as a buffer between residential and industrial land uses. This Comprehensive Development has both site-specific zoning regulations and site-specific guidelines.



Multi-family Dwelling

Historical Area

Site (CD-1,402)





2.12 Broadway Plan

The site falls within the boundary of the Broadway
Plan and is categorized as one of the 'Centres - Station
Areas'. In terms of land use policy, the site is located
in Mount Pleasant neighborhood within the Creative
District and is also identified as one of the Large and
Unique Sites.

Centers: The Station Areas encourage a mix of uses including high density housing, work space, as well as shops, service amenities and public spaces, with building heights generally of 30-40 storeys.

Mount Pleasant Neighborhood is an eclectic and diverse neighborhood that has a mix of industrial lands, cherished local shops and services, a strong arts and culture presence, and some of the city's most affordable rental housing stock. The Broadway Plan policies for Mount Pleasant seek to retain and strengthen these unique places while integrating new housing and job space.

Large and Unique Sites provide significant opportunities to deliver on multiple plan objectives including diverse and affordable housing, job space, community-serving facilities and institutions, public amenities, and new shops and services – contributing towards more complete neighborhoods.



&



Residential



Employement

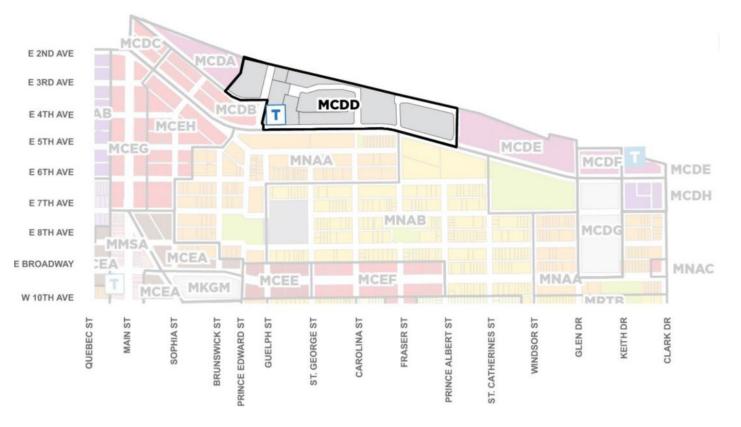
Creative District: The Broadway Plan strengthens the Creative District as a walkable mixed-use area that is vibrant during the day and evening hours, which helps attract and retain employees to the area.

The site is located within the boundary of MCDD which aims to support the long term expansion of the Great Northern Way Campus with a broader range of uses

The proposed development is compliant with the spirit of Broadway Plan and its policy framework for the Creative District.



Extent of Broadway Plan Area and the Site Location within the Plan



Extent of Larg and Unique Site boundry withing Creative District

2.13 Precinct Visioning - GNW Charrette

PCI and Low Tide Properties hosted two charrettes to assess and advance the planning efforts in the Creative District of the False Creak Flats on October 27th and 28th and November 29th and 30th of 2021. The first two-day charrette included City of Vancouver staff and stakeholders from the vast majority of properties and regulators in the District. The second two-day charrette focused on PCI/Low Tide Properties owned lands in the District.

The work contained within this document has been informed by these charrettes and largely in compliance within their directions including distribution of height and density, employment, residential areas, ground-plane activation through retail, open space, public art and pedestrian and cycling routes.

Emerging from the charrette is the development of a district-wide "Cultural Ribbon", as a meandering walkway that connect spaces for public gathering and art with a strong connection to Coast Salish culture.

Creative District Boundary Retail Office Light Industrial Institutional Hotel Residential Amenity Loading & Parking SkyTrain Station SkyTrain Station Underground Station Area





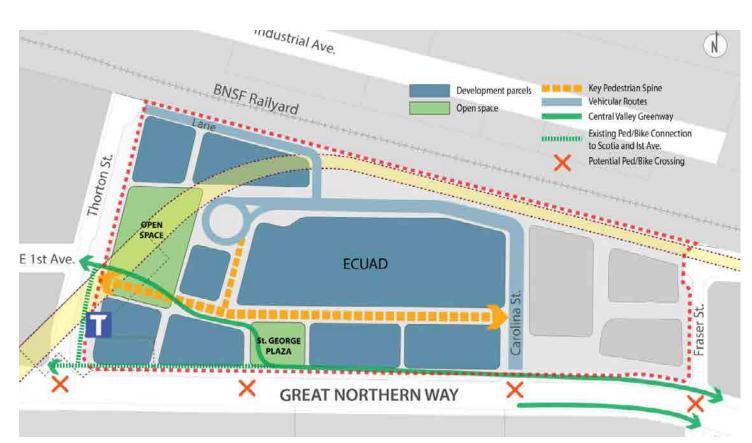


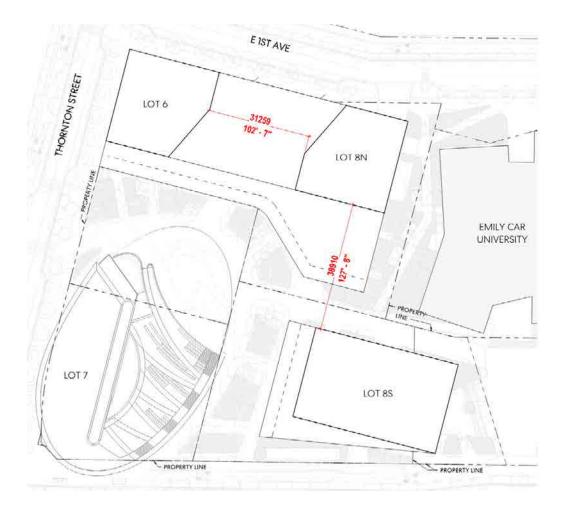
2.13.1 Lot Q Structure Plan (CD-1402)

The site consists of the three western lots of the main Great Northern Way campus, Lot 6, 7, 8N and 8S. These lots play a crucial role in connecting and integrating the campus into the surrounding neighborhoods and community.

The site is part of the Great Northern Way Campus (also known as Lot Q or Campus Lands) with site specific comprehensive development zoning in place. Existing zoning for the site is CD-1 (402) approved by Council in 1999. This zoning is accompanied by an illustrative Structure Plan (revised 2014) offering guidance on site planning elements and configuration while allowing room for design flexibility. The proposal contained herein builds on the framework of the Structure Plan and is reflective of ongoing discussions with the City of Vancouver, Broadway Subway Project and GNW Trust as to the configuration of the development to facilitate the station construction and integration.

Lot Q Structure Plan (CD-1402)









Section 3.0

Design Proposal

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3.1 Project Vision

This new creative node will be a vibrant, mixed-use development that seamlessly integrates active ground-level retail, office workspace, and residential homes at the heart of an emerging creative district. As a dynamic transit-oriented hub, this project will inspire creativity, collaboration, and community.



Community Nexus & Public Realm

Create a welcoming and inclusive community at the heart of the project to foster deep social interaction through a vibrant and memorable public realm that inspires curiosity and creates a district story.

Enliven the public realm with a fine-grained landscape, active and transparent building edges, and connections through and across the site to tie into the wider neighbourhood emblematic of a 24-hour mixed-use district.



Evolve Workspace & Housing

Establish a new benchmark for workspace at the centre of an emerging Creative District that responds to the evolving needs for productivity, innovation, and well-being.

Complemented with new purpose-built rental housing to provide opportunities to live and work within the same community.



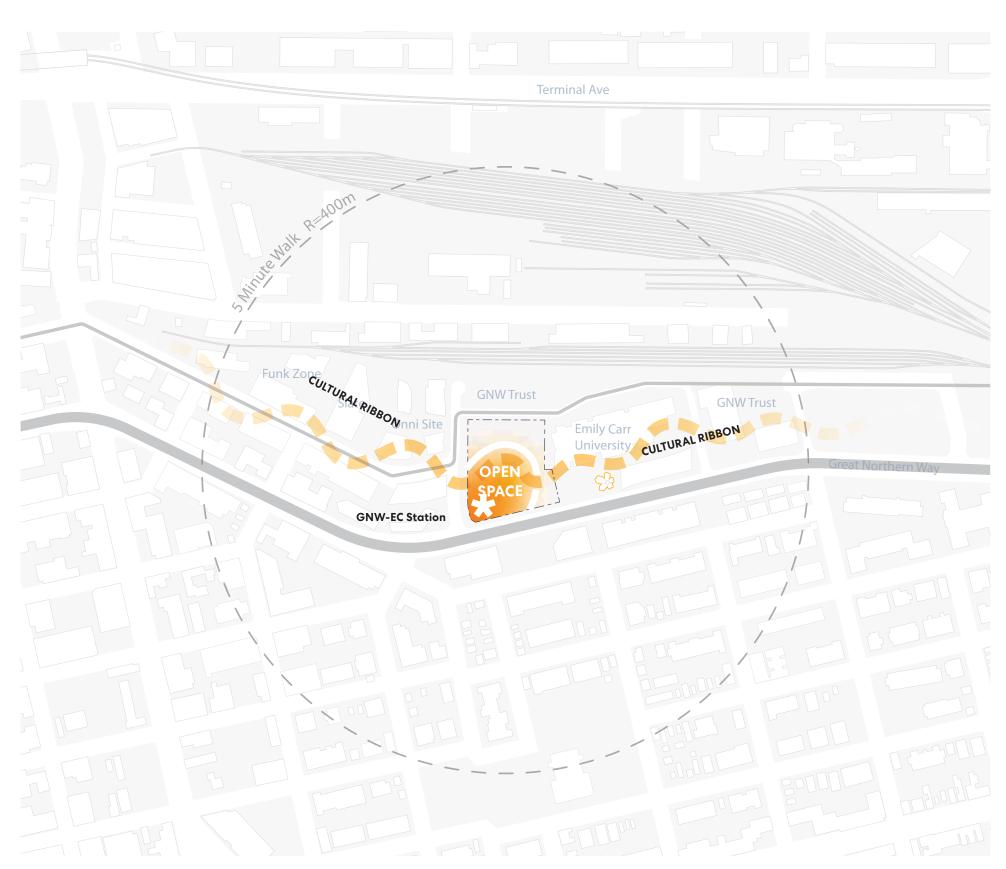
3.2 Design Concept

Heart of the Creative District

The Great Northern Way Campus (Lot Q) is a unique space in the city. It is a large site without any bisecting streets surrounded by industrial uses to the north and residential housing to the south. Its development into a diverse campus combining education institutions, commercial work space, and supportive amenities presents the opportunity to create a new neighborhood focused on the connection of people and integration of arts & culture to create a locally authentic sense of place.

Influenced by the Broadway Plan, GNW Charrette visioning workshops and ongoing coordination with the Province, the site plan has been conceptualized to prioritize a large, contiguous central open space at the heart of Lots 6-8. This configuration creates a framework for a vibrant 24h mixed-use development integrated with the future GNW-EC Station and meaningful public realm that is activated by ground level program and reinforced through responsive building form that, together, create a distinctive identity for this unique site.

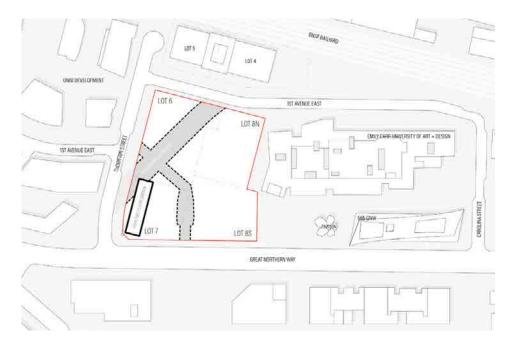
The ambition for a District-wide "Cultural Ribbon" is envisioned to be woven through the new public gathering space to provide a highly visible gateway and important node along the length of this emerging pedestrian link.

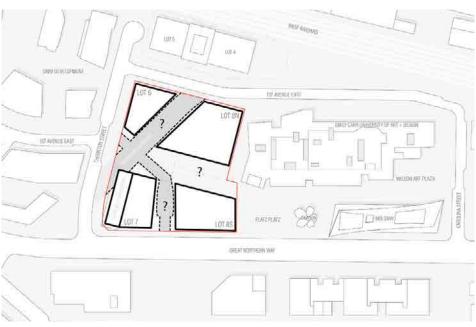


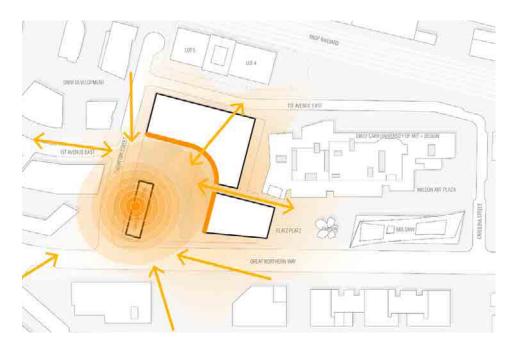




3.3 Site Plan Concept







Site Conditions & Constraints

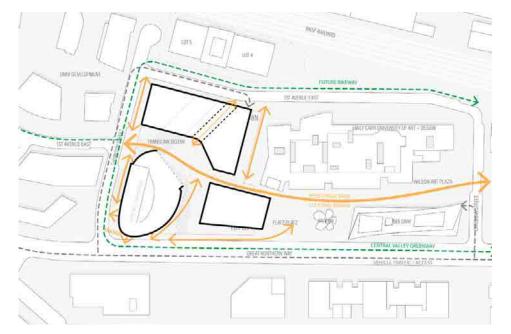
The project consists of four development sites: Lot 6, 7, 8S, 8N. Significant underground SRWs bisect the site for a storm sewer and the Broadway Subway guideway and station. The future GNW-ECU station head house sits at the southwest corner of Lot 7.

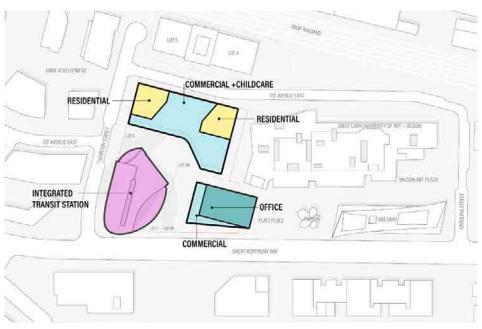
Developable Footprint & Open Area

The resulting developable footprints from the site constraints create a fragmented site plan without a clear hierarchy of public space or building form. This would precipitate an undefined public realm and open space.

New Open Space & Focal Point

Acknowledging this site as an important node within the Creative District, a large public open space is established at the centre. Serving as both a gateway and place of gathering, this new public open space recognizes the transit and potential overbuild as an important focal point for the site and neighborhood.







Connection & Porosity

Connecting the site into the larger district through an extension of the pedestrian spine running east-west and facilitating future pedestrian flows to and from the Station. Finer-grain porosity is provided north-south from GNW to E 1st Ave. Additional response to bicycle movements on surrounding CVG network and key vehicular access points.

Building Form & Program

The creation of a large at-grade public gathering space is embraced by building forms that wrap around the north and east sides to create a sense of enclosure and place. At-grade retail activates the base of each building, with a high-profile opportunity to integrate with transit at the site's south-west corner.

Public Realm & Landscape

A comprehensive landscape strategy ties the new public space into the surrounding campus and neighborhood, creating a hierarchy of spaces for public gathering and outdoor enjoyment. The largest of these spaces anchors the site and the wider district as a marker of transit and ambitions for broad social activity and engagement.





3.4 Form of Development

3.4.1 Height and Massing

The form of development embraces the circular open space at the heart of the development with a dynamic family of forms that provides containment at the streetscape and a recognizable skyline silhouette.

Lot 7

At the corner of Great Northern Way and Thornton St, the under construction GNW-EC Station is being built as part of the Broadway Subway Project. Working with the Province, the rectangular station headhouse will be integrated as part of a recognizable landmark pavilion that extends the public realm up and above the new station while creating a new flexible spaces for a destination program below. The low height of the pavilion helps maximizes solar access to the plaza and provides an accessible roof deck with outlook.

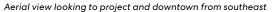
Lots 6 and 8N

The north side of the site includes a four storey commercial base with residential towers above rising to 35 storeys as per the Broadway Plan. Both towers include floorplates up to 7200 sq.ft (670 sq.m) with chamfered inner faces in response to the subway guideway that runs at an angle below the site. At grade the same angle is registered as a seam between the two towers providing an internal atrium with access to elevators for the commercial base and a spacious market hall. A childcare facility is located on Level 4 with the indoor program under the towers and outdoor area on adjacent roof deck.

Lot 8S

On the south side of the site and fronting GNW is a large-plate office building rising to 20 storeys. The ground floor has been opened up to provide a transparent and active connection between the new plaza and adjacent existing plaza to the east. Level 4 hosts office amenity with a generous outdoor terrace with the floors above pulled back from Great Northern Way to reduce tower massing and open up to the south.

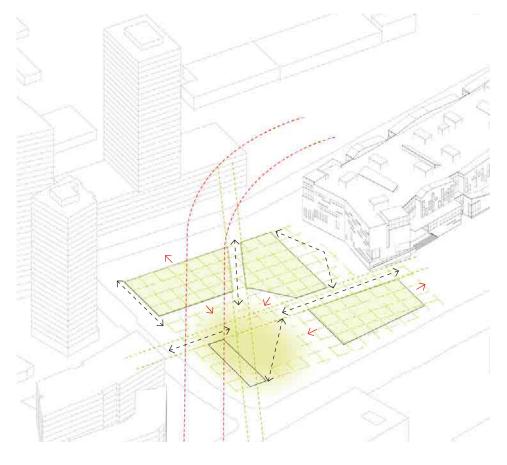


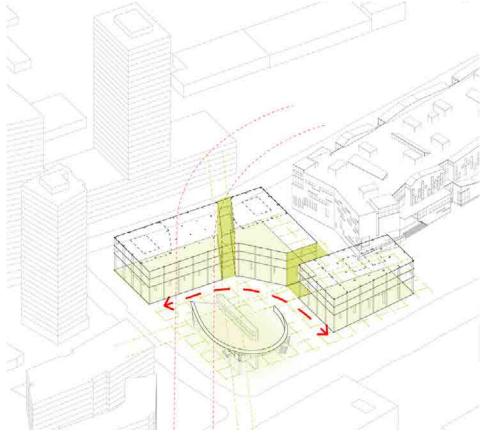


3.4.2 Architectural Expression



---- Pedestrian Connection







Site Constraints and Connections

Building footprints are shaped by a host of site constraints and oriented to create a new public space at the heart of the development. A network of fine-grained pedestrian connections traverse the site to connect out to the wider creative district.

Embrace the Public Realm

With a primary focus on the public realm, three building forms wrap around and embrace a generous and unique public space and centre. The first floor of each building is setback to provide an expanded outdoor area and covered circulation zone protected from the elements. A curvilinear sloped roof plane draws the open space up and over the station serving as a gateway to the district.

Creative Framework

Set back from the public open space above the commercial base, three towers continue the rational grid to provide flexible office and residential floor plates. The towers are positioned to maximize tower separation with further articulation to negotiate the subway guideway and provide views past.

Altogether, this ensemble of buildings provides the campus with a legible and recognizable identity.





3.5 Organization of Program

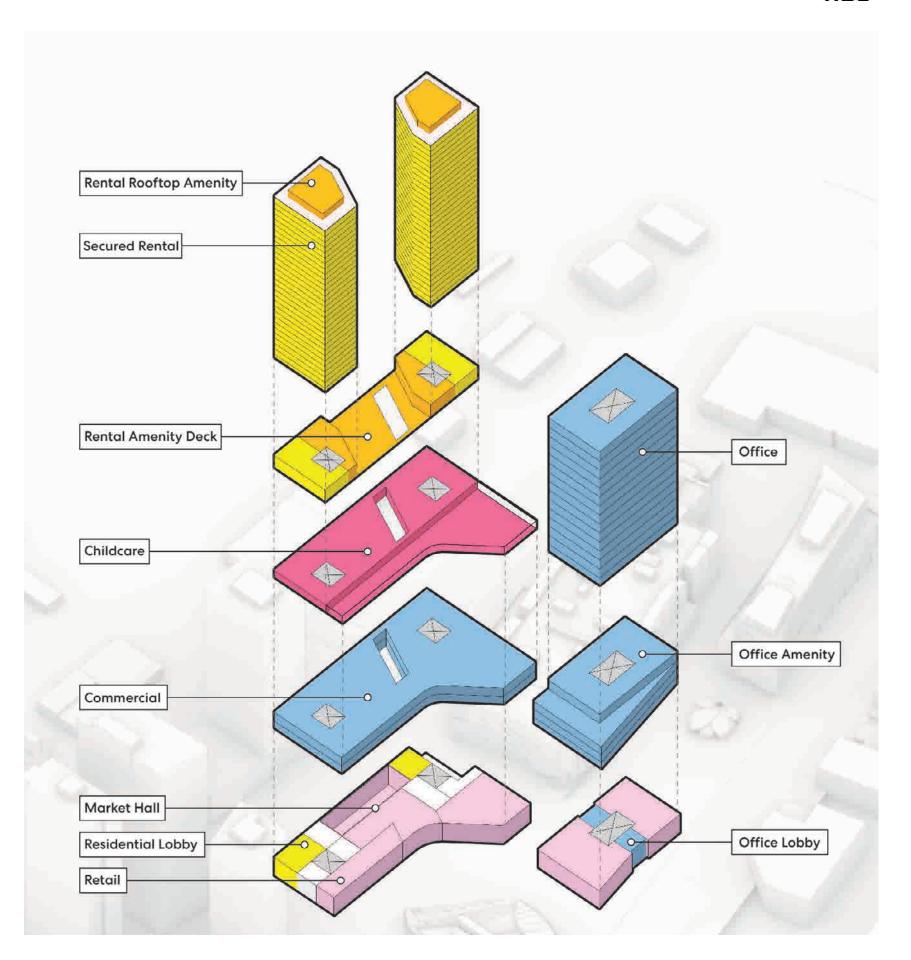
3.5.1 Program Breakout

Lot 6 & 8N

Commercial base with retail and market hall at grade and childcare with adjacent outdoor playspace on Level 4. Located above are two residential towers with associated amenities located on lower and rooftop levels.

Lot 8S

Office tower with retail at grade and office amenity with an outdoor terrace at Level 5.

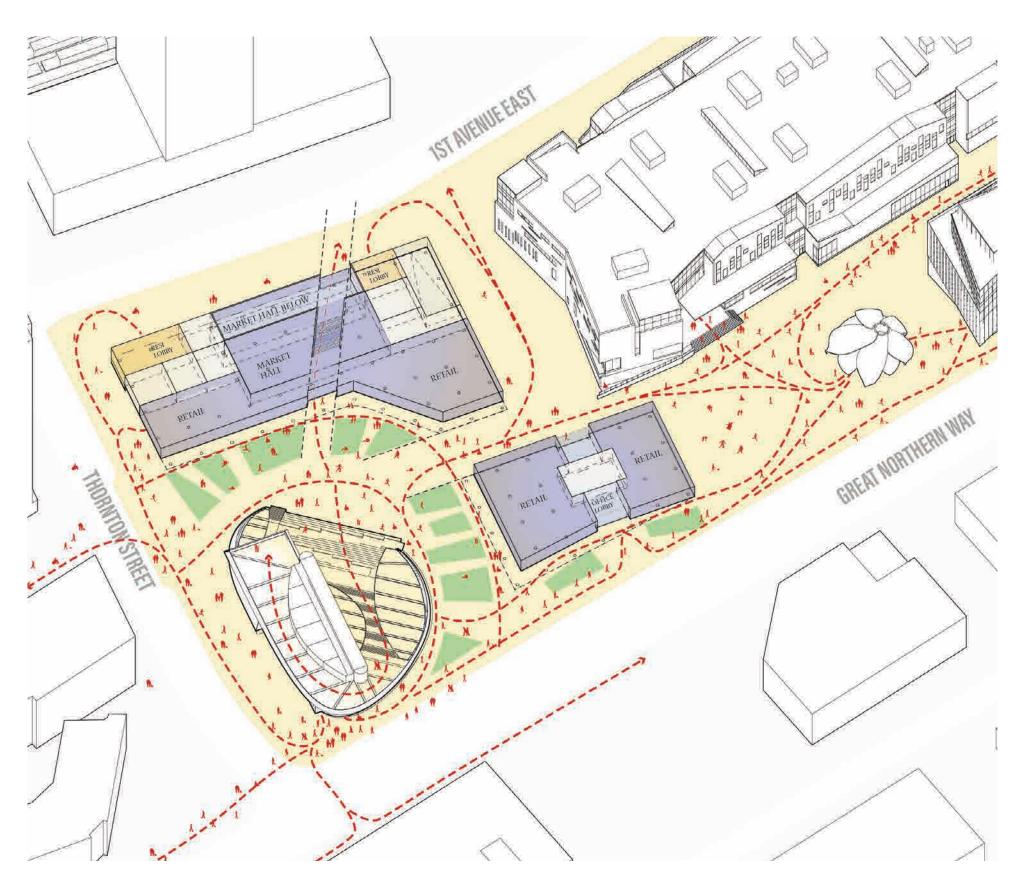


3.5.2 Active Ground Plane

The ground floor of all buildings are envisaged as an extension of the public realm and surrounding sites. In addition to accommodating the lobbies for the residential, childcare and office programs, opportunities for retail are integrated at key moments to activate the surrounding streets and public realm including both the new public open space and existing St. George's Plaza.

At the centre of Lots 6 / 8N, the Market Hall serves as an important connection point between the Plaza and East 1st Ave, negotiating a change in grade to welcome people from both sides. The Market Hall is intended to provide an important indoor space offering a mix of food-related amenities as a social gathering space.

The Lot 7 Transit Station Pavilion is a key component of the overall groundplane and is covered in more detail in Section 3.6



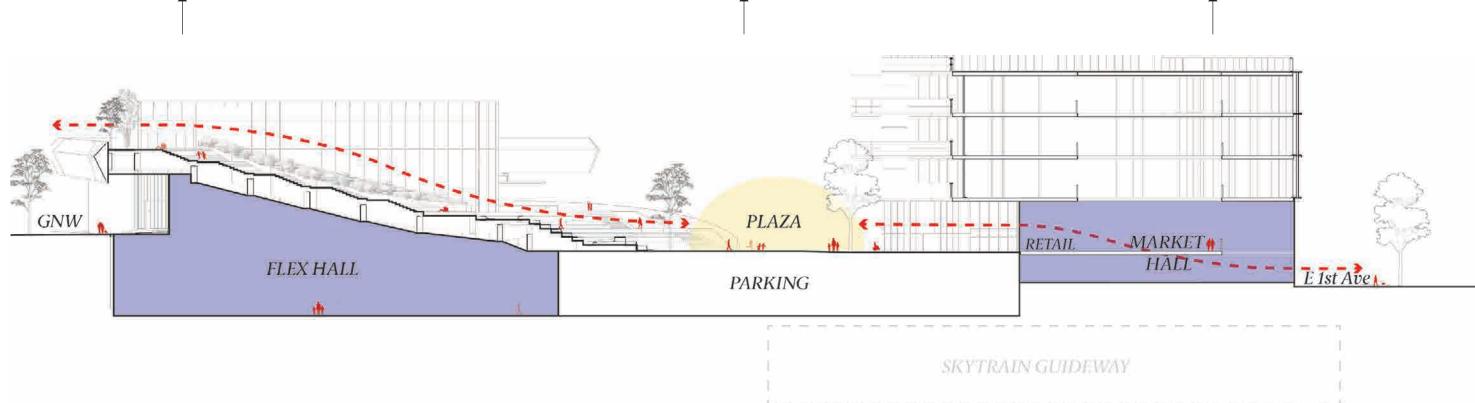










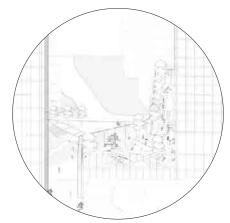


3.5.3 Childcare

A large childcare facility is located on Level 04 of the podium of Lot 6 & 8N with adjacaent outdoor children's play area. The outdoor area faces the plaza, receiving significant solar exposure while creating a strong connection to the public realm below.

Area	ft²	m²
Indoor Activity Area	8342	775
Indoor Support Area	4779	444
Outdoor Area	12099	1124

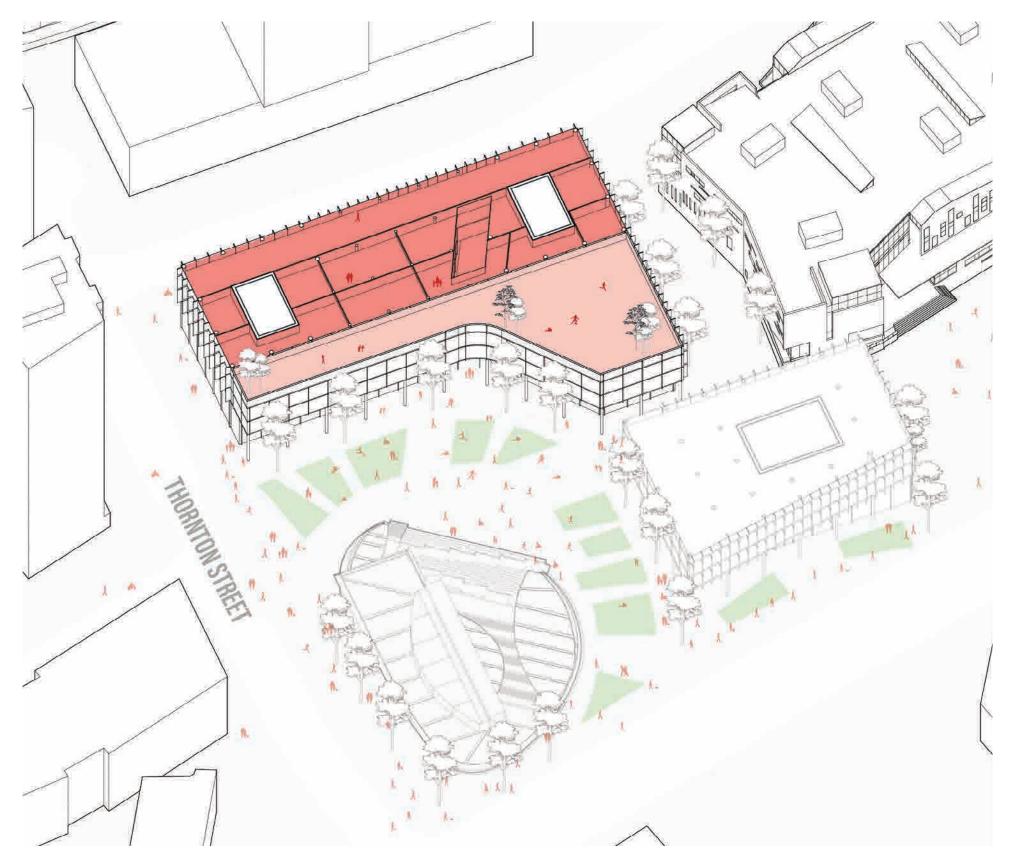
Unit	Age	Spaces
Α	0 to 3	12
В	0 to 3	12
С	Preschool	20
D	3 to 5	25
Е	3 to 5	25
Estimated Total		94
Age	%	
0 to 3	26 %	
Preschool	21 %	
3 to 5	53 %	



Perspective view of outdoor childcare overlooking Lot 7 pavilion



Aerial view of outdoor childcare







3.5.4 Amenity

Amenities are provided throughout the project, starting with residential and office amenity at Level 5 of Lot 6, 8N, and 8S with adjacent outdoor space on the top of the podiums. Similarly to the childcare, the outdoor amenity receives significant solar exposure, with prominent views and a connection to the public realm below. The outdoor and indoor amenity will host a series of programs including urban agriculture beds

Additional indoor and outdoor amenity exists on the rooftops of both residential towers boasting 360 views of Vancouver and allows the proposal to exceed city required indoor and outdoor amenity areas.

Approximate Total Indoor Residential Amenity Area per Tower: 5000 sq.ft (465 sq.m) (1.7m2/unit)

Approximate Total Outdoor Residential Amenity Area per Tower: 6190 sq.ft (575 sq.m) (2.1m2/unit)

Aerial view of residential podium amenity with urban agriculture beds



3.5.5 Residential

Lot 6 and 8N hosts two 35-storey purpose-built rental towers. This pair of towers share a similar typical floor plate up to 7200 sq.ft (670 sq.m) that has been designed in response to site constraints, family housing mix, and unit sizes to deliver over 500 new homes. All family units will have a balcony meeting the minimum dimensions of 1.8m deep by 2.7m wide.

Perspective view of preliminary balcony integrated design









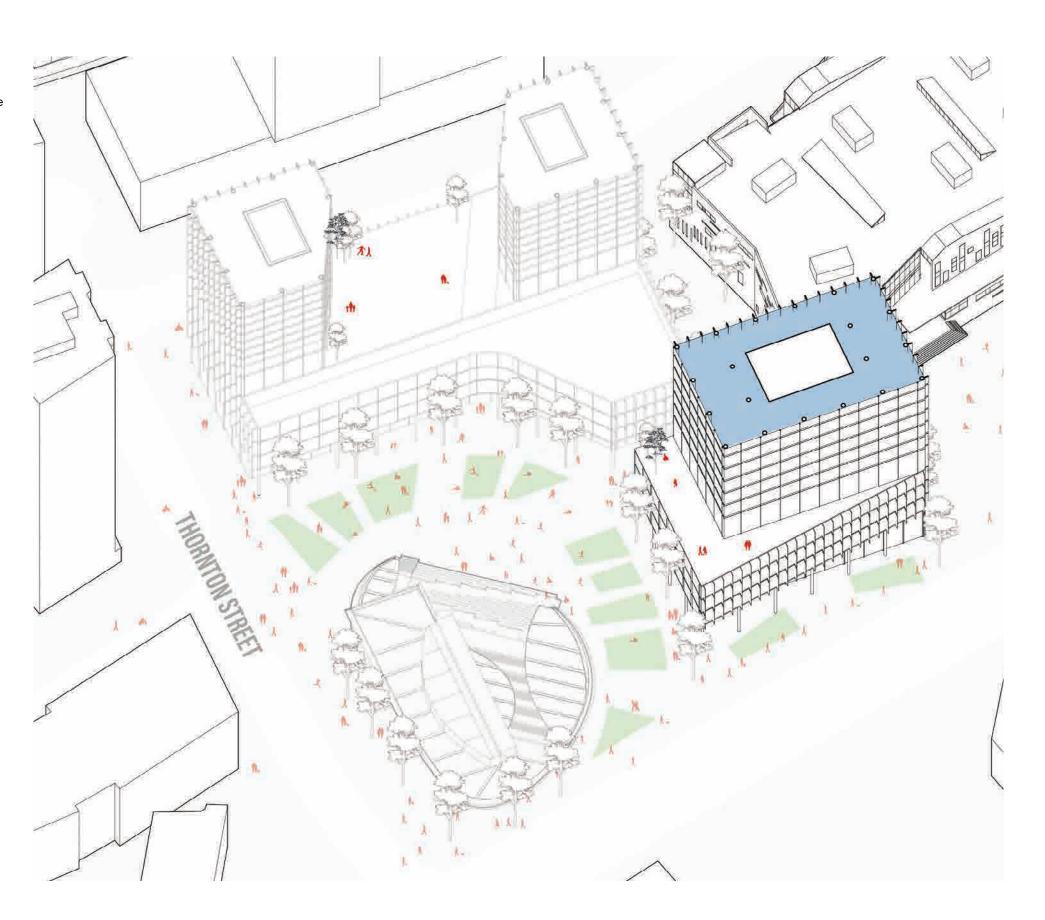
3.5.6 Office

The 20-storey office building on Lot 8S provides office floorspace with large open spans providing flexibility for a variety of office and creative uses.

The intent is for Lot 8S to evolve the office and establish a new benchmark for workspace in the heart of an emerging creative district and adjacent to public transit.

Perspective view of the office building interacting with the public realm at grade.

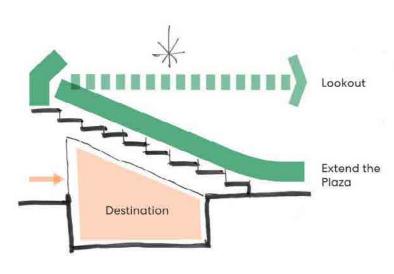




3.6 Lot 7 Transit Station

3.6.1 Neighbourhood Beacon

Situated at the prominent corner of Great Northern Way and Thornton St, the new GNW-Emily Carr headhouse will be enveloped by a sloped roof that extends the public plaza up and over the station to provide a unique terraced landscape and public view deck. Cantilevering out over the headhouse, this deck creates a remarkable new canopy for the station and marking it as a key transportation gateway for the campus.





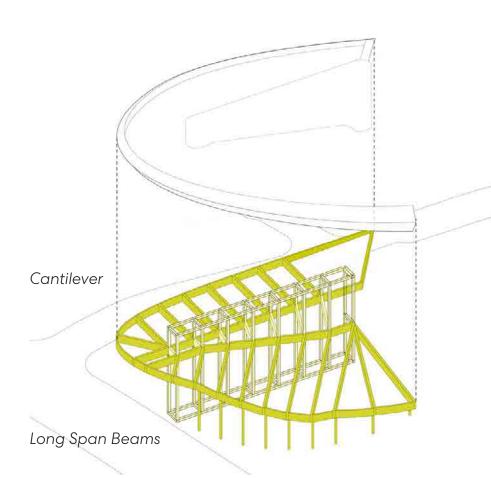




3.6.2 Component Diagrams

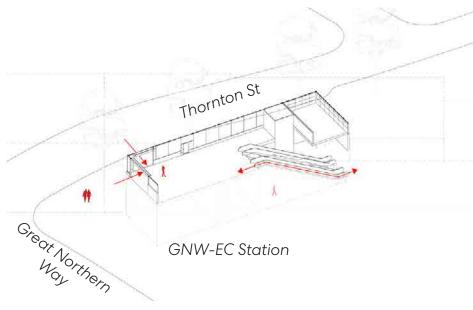
Driven by the anticipated built condition of the new GNW-EC Station headhouse, this proposal seeks to provide seamless integration of transit infrastructure with new program opportunities and expanded public space.

The following diagrams document how the existing built form of the headhouse is integrated with a new roof that is sloped and landscaped to extend the public plaza up and over the station.



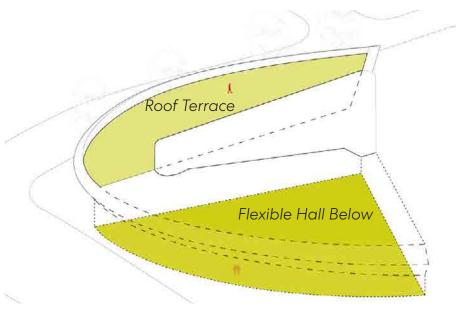
Expressive Structure

A dramatic structural solution enables the extension of the plaza to cantilever out over the existing station with both structures remaining independent.



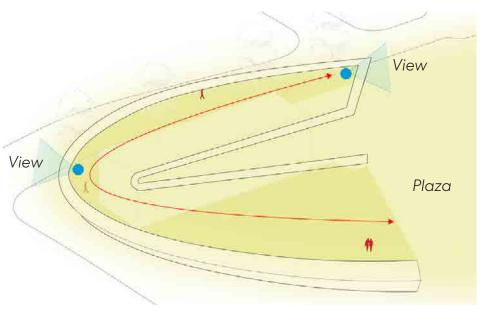
Subway Station Headhouse

As part of the Broadway Subway line, the new GNW-EC station will be built with the headhouse emerging at the corner of GNW and Thornton St.



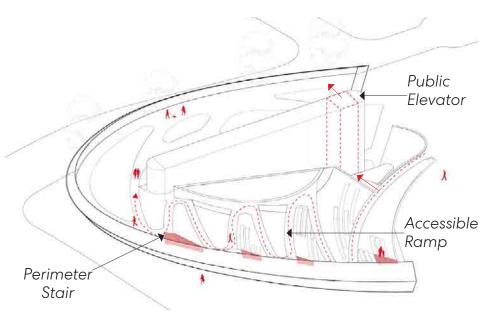
New Spaces

The gesture to expand the public space creates two unique opportunities: a large flexible hall under the expanded plaza, and an expansive roof terrace on top.



Expand the Public Space

Using the new station and its prominent corner location as an opportunity to expand the public space up and over the head house.

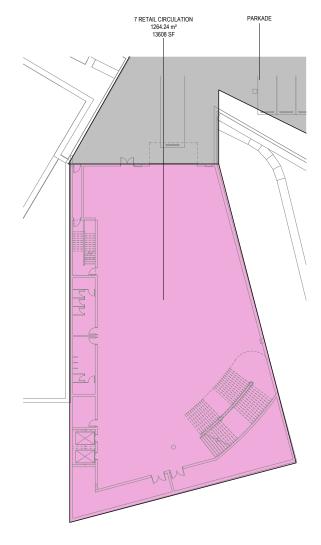


Rooftop Accessibility

Through various circulation routes, the design prioritizes creating a rooftop public space expansion all user groups can experience.

3.6.3 Flexible Hall (Level P1)

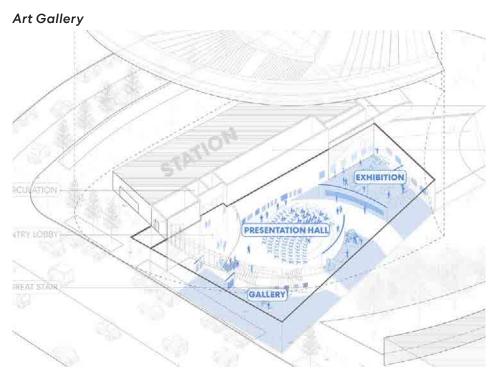
Located partially subterranean, this large column-free hall is a flexible and dramatic space that is anticipated to be used in a variety of capacities on a rotating basis to include commercial and cultural opportunities.

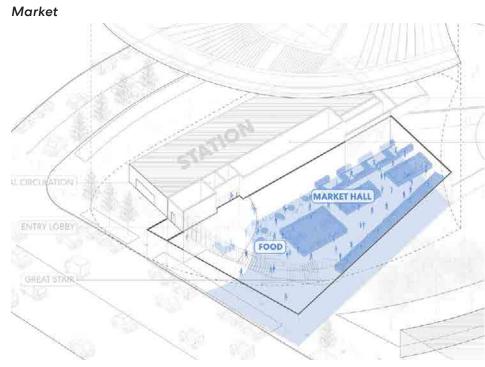


P1 Plan



Perspective From the Flexible Hall





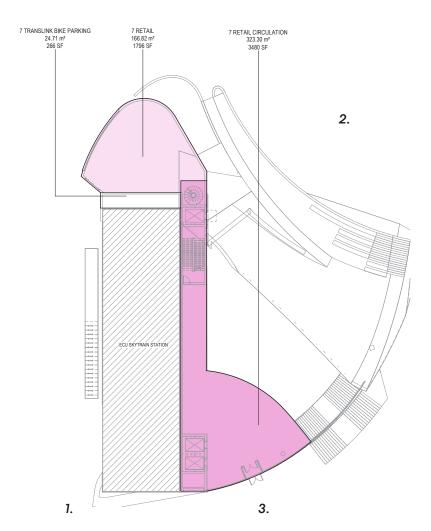
PCI



Lot 7

3.6.4 Ground Level

The ground level features the entry to both the skytrain station and flexible hall that exists in P1. Both entries are visible as one approaches the site, meanwhile from the envisioned public space at the heart of the proposal, the ground level cascades up Lot 7 creating a natural extension of the public space.



Ground Plan



1. Skytrain Entry





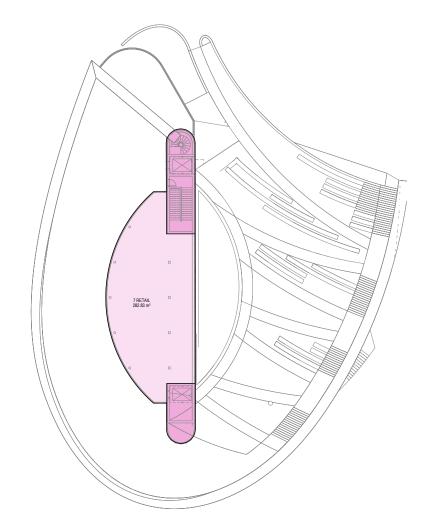




3.6.5 Roof Terrace

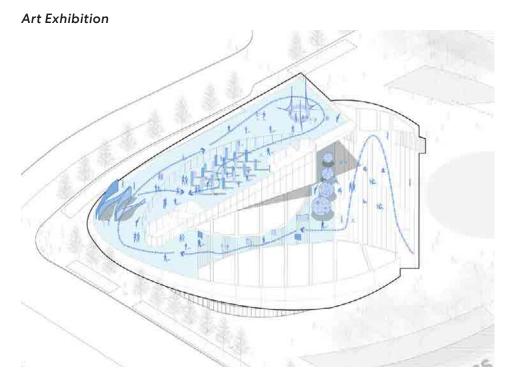
Floating above the station headhouse, a new sky deck provides a public vantage point of views north to the mountains, up Great Northern Way, and down across the public open space. This landscaped deck is connected to grade via a ceremonial perimeter stair, an experiential ramp, and dedicated elevator. This large platform presents opportunities for unique event programming and destination food & beverage retail.

Roof Plan





Roof Terrace FLEXIBLE HALL (Below)



PC1



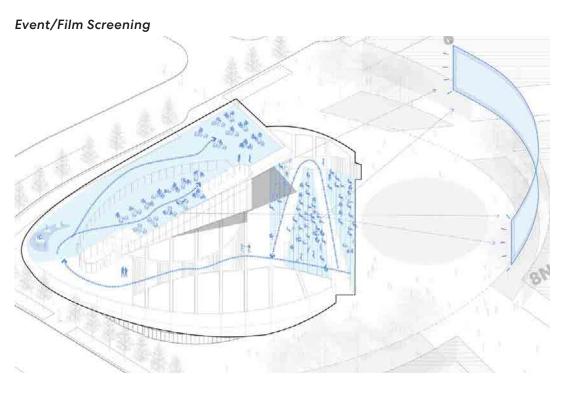
Lot 7

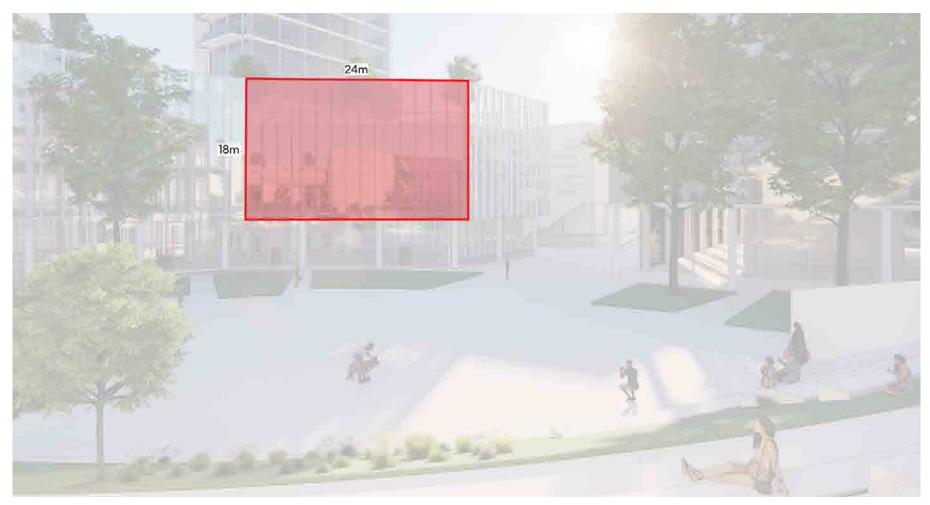
3.6.6 Amphitheater / Projection Screen

Envisioned as a new public space for Vancouver, a dynamic LED mesh screen integrated within the facade of the lower commercial base of Lot 8N provides the opportunity for a wide range of video programming and art opportunities at an urban-scale screen.









3.7 Landscape & Public Realm

Concept Site Plan

The public realm is centered around an oval plaza, a communal space strategically positioned at the core of Lots 6, 7, and 8. This design creates a central courtyard at an urban scale, accessible from all sides. It serves as a shared space where residents, office users, campus students, and travelers alike can converge.

The oval shape of the plaza encourages flexible use of the space, accommodating gatherings and outdoor activities. Tree groves lining the north to east edges define the plaza's borders, providing shade from the afternoon sun. Pocket areas among and beneath the tree groves offer a refuge, housing outdoor patios for cafes and restaurants. Behind the arcade planters lies a sheltered passage granting access to the commercial units and office/residential lobbies.

The GNW-Emily Carr station is currently being constructed on Lot 7. The intent for this development is to overbuild the station. Program considered for Lot 7 are commercial or community focussed. The applicant team is investigating the continuation of the plaza into Lot 7 and integration with any proposed development over the station.

The station will be a key transportation node within the community and as such draw the attention of large amounts of pedestrians. The design of Lot 7 is intended to directly respond to the needs of the community and to create high quality indoor and outdoor spaces that add to the surrounding public realm. As such the project aims to establish a valuable architectural landmark along Great Northern Way.







3.7.1 Landscape Concept

Overview

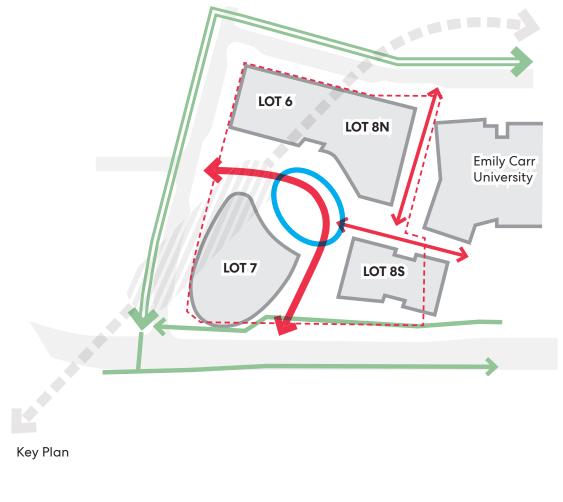
There is a unique opportunity in the creation of a large contiguous open space at the heart of the project.

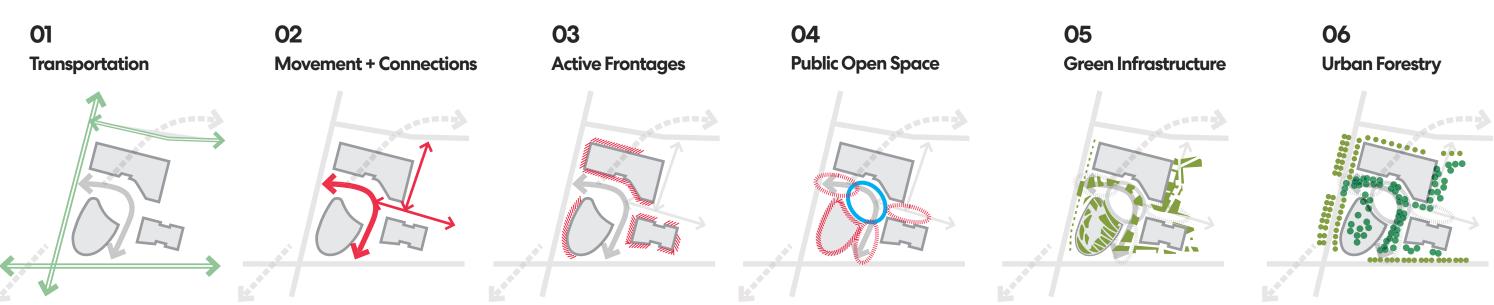
This provides an opportunity to celebrate the public realm through the landscape design and active building edges that frame streets and open spaces.

Future development on lot 7 is viewed as an incredible opportunity for a landmark pavilion that can provide unique visibility and identity to development integrated with the GNW-Emily Carr station.

Urban Design and Landscape Principles

Diagrammatic plans on the following pages provide explanation of the key considerations for the site's design and organization. The principles described ensuring a unified design and providing a framework for future development in the Great Northern Way lots 6, 7 and 8.





3.7.2 Urban Design and Landscape Principles

Movement and Connections

The public realm strategy is designed to cater to diverse users while seamlessly integrating with established and upcoming public assets, including the new station, Emily Carr, VCC campuses, Creative District offices, and China Creek North Park. This cohesive approach prioritizes the flow of pedestrian traffic between crucial connection points within the site and extends to broader connections on a larger scale.

An integral element of this design is the 'Oval,' which reinforces a crucial linkage from the site to the existing Emily Carr plaza in the east.

Pedestrian movement is enhanced by providing strategic direction through the use of planting island 'Bumpers' and thoughtfully placed site furnishings, directing individuals towards building entrances and facilitating safe crossings.



<u>Legend</u>

Building entry / egress

2-way dedicated bike lane

Dedicated bike lane

Primary connection

Secondary pedestrian hydrology

Sidewalk / crosswalk

Skytrain line

Great Northen Way Station





Urban Design and Landscape Principles

Public Open Space / Active Frontage

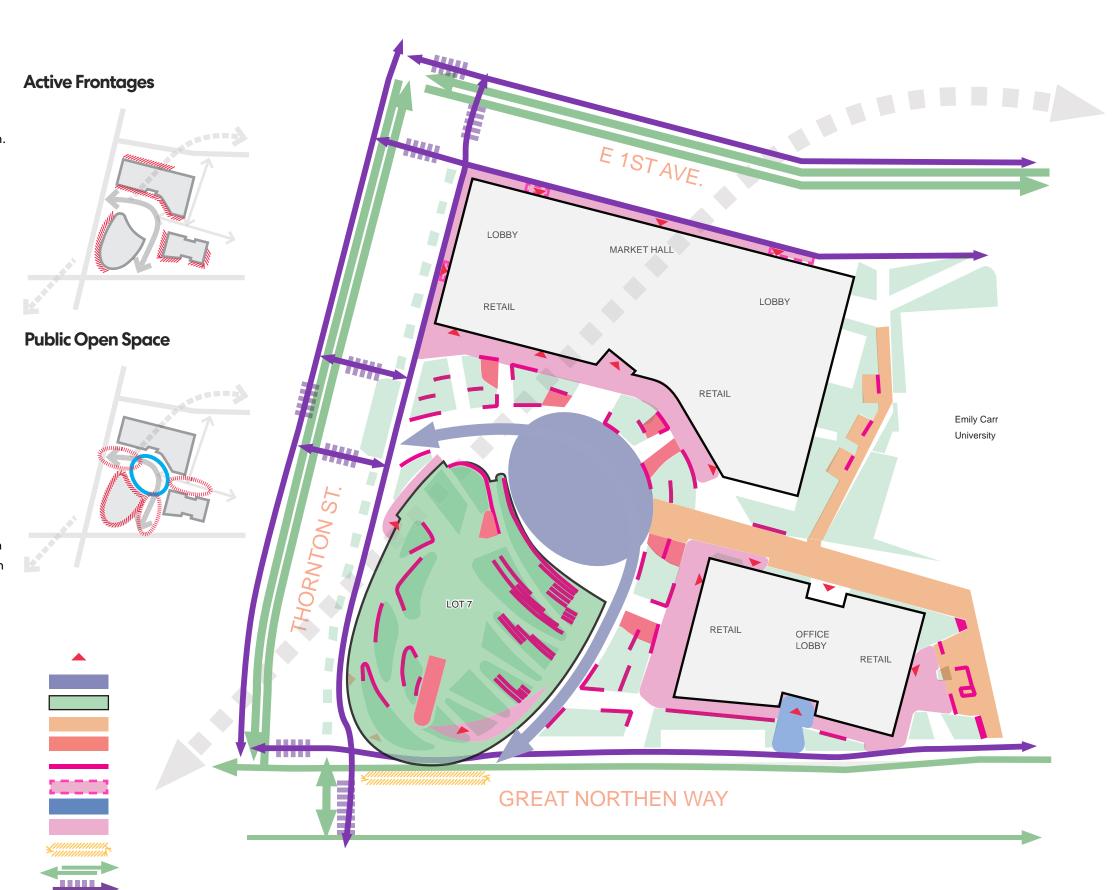
The success of the emerging development project hinges on the careful consideration of the public realm. The design prioritizes a thoughtful layout of spaces to facilitate smooth movement and establish distinct areas of various sizes. This approach contributes to an enriched overall pattern, promoting activity stemming from both building uses and transportation connections.

A clear radiating axis is framed in the public realm, starting from the 'oval' plaza at the heart. Along the building interface with the plaza, smaller, intimate cross-routes are carved out, forming a network of occupiable zones and connections to key points of interest and transport. Pedestrian movement is guided by arcade planter islands, creating separation between foot traffic and green/refuge spaces under the tree canopies, fostering smaller informal seating areas. The focus on a pedestrian-priority public realm and streetscape is strengthened by the unified materiality approach.

Future development includes a terraced park over the pavilion leading to a viewing platform over the station rooftop to support seamless and accessible pedestrian movement through the public realm.

Legend

Building entry / egress
The ground level plaza
The Station Rooftop Park / View Deck
Secondary Open/Felexible Spaces
Outdoor patio + seating spaces
Edge plaza seating
Building lobby arrival / merchant zone
Office frontage / sidewalk
Merchant zone
Line-up + waiting zones
Bike lane
Pedestrian Sidewalk / Crossing



Green Infrastructure / Urban Forestry

City of Vancouver supports a rich biodiversity, with the urban environment's green infrastructure network supporting and interwoven with a variety of important natural habitats including forests, meadows and wetlands. The green approach to the Great Northern Way Lots 6-8 seeks to enhance and support this character at one the heavily industrialized areas of the city, and as a vanguard for continuity in future development.

Sufficient space and soil volume for the mature growth of trees and other vegetation is provided in coordination with underground parking zones. The project strives to achieve an overall 26.8% tree canopy coverage and 36.8% vegetation cover, surpassing the City of Vancouver's Sustainable Large Sites requirements of 20% and 30%, respectively. Currently, there are no trees on the site that are subject to retention.



<u>Legend</u>

Planting islands Stormwater infiltration/rain garden (ground level)

Green roof/balcony shrub planting
Extensive green roof (roof level)
Urban Agricutural Plats

Urban Agricutural Plots

Boulevard (Lawn)

Boulevard (Shrub Planting)

On-Site Tree Root Cell

Proposed Large trees Proposed street trees

Proposed small trees





3.7.3 Plaza Size Comparison

Public Space

The central open space plays a substantial role in configuration of the site and impacts the life of future occupants by creating a unique opportunity for world class park and various outdoor spaces as well as programmable areas. With a required area of 0.49 ha (53,000 sf) the open space is at the heart of the project. While there are grade changes across the street edges the plaza is envisaged as a gently sloping accessible plane that connects the diverse uses across the site and the surrounding context. The surrounding configuration maximize the solar potential of the plaza, creating an outdoor living room within the city, while measures to provide shade and shelter will be incorporated.

The site plan is generally as agreed with City and Broadway Subway Project in past discussions to facilitate GNW-Emily Carr Station construction & integration.

Transit Integration

Our proposal seeks to enhance the functionality of the transit system by providing clear and legible access to the station and using the public realm to encourage access and use of the transit system. This exciting opportunity includes:

- **1.** Presentation of the station visually to Great Northern Way and Thornton Streets.
- **2.** Provision of a bicycle storage facility at the pedestrian spine associated with the station.
- **3.** Provision of significant cycling storage and support facilities within the parkade to encourage active transportation within a transit oriented development.
- **4.** Sculpting of the ground plane on Lots 7 and 8 to encourage pedestrian flow to and from the station.



GNW Lots 6-8 Proposal 0.49 Ha (53,000 sf)



Olympic Village 0.32 Ha (35,000 sf)



Roundhouse 0.24 Ha (25,800 sf)



Robson Square 0.49 Ha (53,000 sf)

3.7.4 Programming Study

The central plaza spans approximately 825 square meters of unobstructed open space, making it a versatile venue suitable for various purposes. It serves as a prominent location for organizing both year-round and one-off events that may involve mobilizing large crowds and hosting significant gatherings. Detailed programming studies have explored different types of outdoor activities, organizational spaces, and how the plaza can adeptly respond to diverse program requirements.

It's noteworthy that the Lot 7 terraced park and the viewing deck over the station building offer a secondary space accessible and well-connected to the ground-level plaza. This additional space can function in tandem with the ground-level plaza organization offering additional space and a new dimension to the space.

In addition to the two main open spaces, there are two smaller-scale yet complementary areas that enhance the functionality of both the plaza and station rooftop. The first is a spacious seven-meter-wide pedestrian promenade seamlessly connecting the Emily Carr campus plaza to the site, offering ample room for temporary stalls or food trucks. The second comprises a set of three covered urban pods situated in the Mews, providing versatile spaces for smaller events, temporary outdoor exhibits, or to support activities linked to the Emily Carr programs centered around art and craft.

1. Site Area (11900 M2)



3. Movie Night



2. Pop Up Market



4. Outdoor Concert







3.7.5 Plan Drawings

Ground Floor

Crafting an expansive, interconnected open space at the core of the project presents an exceptional opportunity. This chance allows for the elevation of the public realm through dynamic landscape design and vibrant building edges that delineate streets and open areas. Lot 7, earmarked for future development, stands out as an auspicious prospect for a landmark pavilion. Such a structure holds the potential to impart distinct visibility and identity, seamlessly blending with the GNW-Emily Carr station.

The plaza's oval configuration promotes versatile utilization, accommodating gatherings and outdoor activities at its center. Clusters of large deciduous trees, thoughtfully arranged in urban-scale planters, create inviting pockets for flexible lounging. These green enclaves serve as access points from the plaza's heart to the adjacent commercial units and office/residential lobbies. The tree groves not only define the plaza's boundaries but also provide refreshing shade from the afternoon sun. Deliberately designed pocket areas nestled among and beneath the tree groves offer refuge, hosting outdoor patios for cafes and restaurants.

Plaza Level

- 3.0M WIDE BUILDING CANOPY
- 2 ARCADE PLANTERS
- 3 PLAZA OVAL / WATER JETS
- 4 CLASS B BIKE PARKING
- 5 BOULEVARD TREES
- 6 RAIN GARDEN
- 7 BIKE LANE
- 8 ACCESS TO PARKADE
- FLEXIBLE PLATFORMS / ART+PERFORMANCE SPACE
- STREET TREES ON GRATE

Pavilion Rooftop (Lot 7)

- VIEW DECK
- 12 LANDSCAPE TERRACES LOT 7
- 13 TIERED SEATING
- 14 PERIMETER STAIR
- PEDESTRIAN RAMP ACCESS
- 16 SKYLIGHT
- STATION RETAIN GREEN ROOF
- 18 EXTENSIVE GREEN ROOF
- RAISED PLANTERS WITH EDGE SEATING
- GLASS CANOPY



Plaza Level and Lot 7 Rofftop Plan

Childcare + Podium Roof LEVEL 4 CHILDCARE PATIO

The Level 4 childcare outdoor play space is a secure and interactive environment seamlessly connected to indoor facilities, accommodating 94 children across infant to preschool age groups. Positioned on the southern side of the podium, it comprises three distinct play zones: one for infants/toddlers, another for preschoolers, and an area suitable for 3-5-year-olds. Each program boasts its dedicated outdoor patio, ensuring a tailored play element features with the children age group and abilities.

The patio interfaces with the indoor childcare area through a continuous composite deck platform adorned with an overhead canopy, facilitating outdoor circle time and social interactions. Each program's patio features a tricycle track in a loop, elevated play islands with wood fiber surfacing, and various play obstacles, promoting both active and imaginative play. The sand and water play areas come equipped with sail shades, enhancing the environmental comfort within the play zone.

Designed to capture sunlight, the patio supports the growth of native trees and plants, offering edible food sources, attracting birds and insects, and providing shade for the play area.

Programmed along the patio edges are outdoor storage units, communal tables, and planting pods, providing convenient access for all programs.

LEVEL 5. PODIUM AMENITY SPACE

At Level 5, the rooftop amenity area offers a dynamic selection of outdoor program spaces that have been carefully curated to accommodate the needs of both residents.

A convivial outdoor gathering space emerges, showcasing a diverse array of seating options, including a lounge area and fixed planter-edge seats with movable tables, a harvest table and gardening shed. Additionally, spanning over 160 square meters, this level hosts urban agricultural plots accessible to residents of both towers.

The office tower also boasts a communal outdoor amenity space on the podium level, featuring elevated planters adorned with ornamental trees and shrub beds. This area offers opportunities for seating along the edges, complemented by moveable patio furniture for added flexibility.













Level 4 Childcare Patio

- ORNAMENTAL TREE
- 2 ACTIVE PLAY AREA
- 3 SAND PLAY AREA
- 4 WOODEN DECK
- 5 OUTDOOR CLASS-ROOM
- 6 MOVEABLE TABLE AND CHAIRS
- 7 OUTDOOR STORAGE
- 8 COMMUNAL TABLE / PICNIC TABLE
- 9 PIP RUBBER SURFACE
- 10 SAIL SHADE
- II GLASS CANOPY
- 12 RAISED PLANTER
- 13 SEATING PLATFORM

Level 5 Podium Amenity Space

- RAISED PLANTER WITH SEATING
- 15 HARVEST TABLE
- 15 HARVEST TAE
- 16 SKYLIGHT
- MOVEABLE FURNITURE
- 18 HYDRAPRESSED POR-CELAIN PAVERS ON PEDESTALS
- URBAN AGRICULTURAL PLOTS
- 20 GARDEN STORAGE
- 21 LOUNGE SEATING



Levels 4 and 5 Plan





Plan Drawings

Tower Rooftops

RESIDENTIAL LEVEL 36 ROOFTOP AMENITY SPACE

Taking advantage of the impressive height of the towers, the rooftops of both towers offer a captivating 360-degree view deck. This elevated space provides residents with a panoramic vista and seating options, encouraging them to immerse themselves in the breathtaking surroundings.

In line with the objective to maximize green space, the design incorporates an extensive green space surrounding the patio deck. Furthermore, green elements are integrated over the tower core for increasing greenery and maximizing infiltration and rainwater storage.











Rooftop Amenity Space

- 1 RAISED PLANTER
- 2 EDGE SEATING
- 3 EXTENSIVE GREEN ROOF
- 4 MOVEABLE FURNITURE
- 5 HYDRAPRESSED POR-CELAIN PAVERS ON PEDESTALS
- 6 ORNAMENTAL TREE
- 7 LOUNGE SEATING
- 8 MECHANICAL SPACE



Levels 18 and 35 Rower Rooftop Plan

3.7.6 Planting and Material

Planting Design

The public realm's strategy maximizes green space, utilizing perimeter planters around the oval plaza with a mix of large tree canopies, providing shade, intercepting rainfall, and supporting native shrubs. Low ground cover and larger shrubs strategically create open sightlines and habitats for birds, insects, and humans.

Soil cells connect tree roots under paved zones, increasing uncompacted soil for healthy plaza tree growth. Rainwater management, including rain gardens and permeable pavers, infiltrates and directs water to green space, reducing irrigation needs, ensuring tree longevity, and maximizing canopy.

A significant portion of the plant list focuses on native and climate-adaptive species with cultural value for First Nations, promoting biodiversity. Carefully chosen plant combinations support wildlife micro-ecosystems, honoring indigenous traditions and deepening the connection to the land.

Above the roof, diverse plant selections, including edibles and ornamental trees, support outdoor activities, enhancing aesthetics and human comfort. Indigenous and climate-adaptive plants support local biodiversity, offering food and habitat. Green roofs are incorporated for wildlife and building cooling.

Bird-Friendly Guidelines are adhered to, with downward-directed outdoor lighting and native plants selected for landscaping provide food and shelter for birds, and a cluster of trees in the plaza, arranged in groves with interlocking canopies, supports bird habitat and nesting. The Re-Wilding Strategy enhances blue-green networks with rain gardens, permeable paving, and interconnected planters. Trees and shrubs are strategically planted to increase the urban forest, providing wildlife habitat, reducing urban heat, and sequestering carbon.

Considerations are given to integrate edible planting, ethnobotanical planting, and plant species with cultural value for Indigenous people. The Lot 7 rooftop park serves as an educational garden, engaging the community through community planting days and educational events about local biodiversity. This not only enhances the project's success but also fosters a sense of ownership and pride within the community.



Imrproving Biodiversity



Stormwater Integration



Connected Canopy



Accessible Green Space



Landscape Indigeniety and Education



Wildlife Habitat Support





Planting & Materials

Planting Palette

BOTANICAL NAME / COMMON NAME SIZE

TREET TREES		
Ginkgo biloba/ Maidenhair Tree	7.0 cm Cal.	
Liquidambar styraciflua / Sweet gum	7.0 cm Cal.	
Nyssa sylvatica / Black tupelo	7.0 cm Cal.	
Quercus alba / White Oak	7.0 cm Cal.	

GROVE TREES	
Acer freemanii / Freeman maple	7.0 cm Cal.
Crataegus douglasii / Black hawthorn	7.0 cm Cal.
Picea sitchensis / Sitka Spruce	2.0m Ht.
Pinus ponderosa / ponderosa pine	2.5m Ht.
Robinia pseudoacacia/ Black locust	7.0 cm Cal.
Zelkova serrata / Japanese zelkova	7.0 cm Cal.

ORNAMENTAL TREES		
Acer circinatum / Vine maple	5.0 - 6.0cm Cal.	
Acer griseum / Paperbark maple	5.0 - 6.0cm Cal.	
Cornus nuttallii / Pacific dogwood	5.0 - 6.0cm Cal.	
Acer circinatum / Pacifc fire vine maple	5.0 - 6.0cm Cal.	
Cupressus x leylandii / Leyland Cypress	2.0m Ht.	

SHRUBS

Aquilegia formosa / Western columbine
Amelanchier alnifolia / Western Serviceberry
Arbutus unedo 'Compacta'
Arctostaphylos uva-ursi / Kinnikinnick
Bergenia cordifolia / Winterglow bergenia
Cornus sericea Arctic Fire Red
Cornus canadensis / Bunchberry dogwood
Cephalotaxus harringtonia 'Prostrata'
Cornus sericea / Red twig dogwood

Hydrangea paniculata / Panicled hydrangea
Mahonia aquifolium / Oregon grape
Polystichum munitum / Western sword fern
Prunus laurocerasus / Mount Vernon English laurel
Physocarpus capitatus / Pacific ninebark
Rubus parviflorus / Thimbleberry
Ribes sanguineum / Red flowering currant
Saskatoon berry / Amelanchier alnifolia
Sambucus cerulea / Blue elderberry
Spiraea splendens / Mountain spiraea
Taxus X Media Hicksii / Hick's yew
Vaccinium ovatum / Evergreen Huckleberry
Vaccinium parvifolium / Red huckleberry

GROUND COVERS

Arctosta Uva ursi / Kinnickinnick

Cornus canadensis / Bunchberry

Gaultheria shallon / Salal

Oxalis oregana / Redwood sorrel

Prunus laurocerasus / Mount Vernon english laurel

PERENNIALS

Achillea millefolium / Terracotta yarrow
Allium sphaerocephalon / Drumstick allium
Echinacea purpurea White / White swan echinacea
Geranium 'Gerwat / Rozanne cranesbill
Geranium procurrens / Ann folkard geranium
Iris missouriensis / Western blue flag iris
Salvia nemorosa / Cardonna sage
Symphyotrichum subspicatum / Douglas aster

GRASSES

Carex testacea / Orange sedge
Carex flacca / Blue Sedge
Molinia caerulea 'Moorhexe' / Molinia Moorhexe
Nassella tenuissima / Mexican feather grass

RAIN GARDEN PLANTS

Cornus sericea / Redtwig dogwood
Polystichum munitum / Western sword fern
Ribes sanguineum / Red flowering currant
Mahonia aquifolium / Oregon grape
Symphyotrichum / Douglas aster
Physocarpus capitatus / Pacific ninebark
Arctostaphylos uva-ursi / Kinnikinnick
Iris missouriensis / Western blue flag iris
Aquilegia formosa / Western columbine

EXTENSIVE GREEN ROOF - SEDUM

Sedum species on extensive green roof

Sedum acre 'aureum' / Goldmoss stonecrop

Sedum album / White stonecrop

Sedum oreganum / Oregon setonecrop

Sedum spathulata 'cape blanco' / Cape blanco sedum

Sedum spurium 'dragon's blood' / Dragon's blood stonecrop

Sedum 'sun sparkler' / Sun sparkler stonecrop

Materiality

Paving Selection:

Permeable precast concrete unit pavers are chosen for the plaza, providing durability and allowing water infiltration. Within café and restaurant outdoor pockets inside the plaza planters, sealed decomposed granite is utilized for a distinct aesthetic.

A CIP concrete pathway on the pavilion roof meanders through planters, leading to a view deck crafted from Thermally modified Ash wood.

Specialized paving in the plaza core integrates art features, textures, and patterns using natural materials like granite stone.

Durable hydrapressed porcelain pavers on pedestals dominate the upper patio amenity spaces.

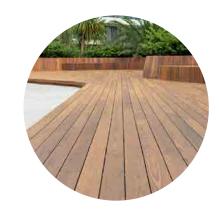
The childcare patio features resilient materials such as PIP rubber, wood fiber, and sealed crushed aggregate in active play zones, along with a Thermally modified Ash wood deck in covered areas and at the patio interface with indoor programs.

Furniture Selection:

CIP concrete linear benches with large slab cuts of natural stone and polished edges are strategically placed inside perimeter planters on the around level.

Tiers of CIP concrete seats with wood tops adorn the pavilion's terraced rooftop.

Other site furniture includes bike racks, landscape lighting, communal tables, picnic tables on the outdoor rooftops, and a variety of movable furniture, including tables, chairs, and lounge seating in the patio areas.



Thermally Modified Ash Wood



Precast Concrete Pavers



Special Stone Paving



Hydrapressed Porcelain Paver



Decomposed Granite Aggregate Paving



Indigenous Art and Craft



Integrated Planters with Seating



Bike Racks



Stone Slabs



Tiered Seat Walls on Pavilion



Floor Lights



Amenity Planters and Moveable Furniture



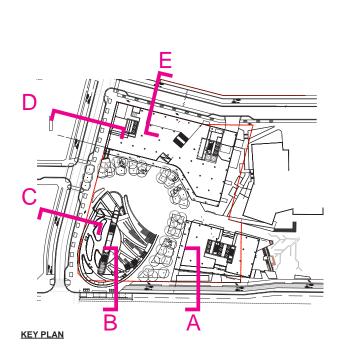


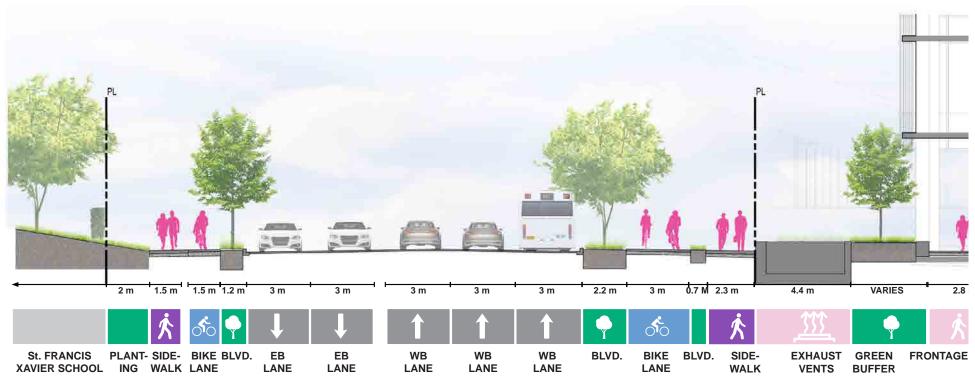
3.7.7 GNW Frontage

Sections at GNW

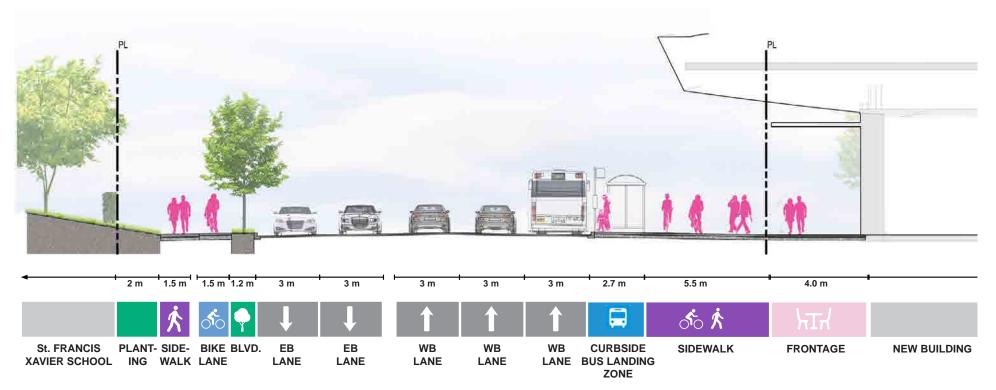
The design features a dedicated bi-directional bike lane situated to the north of Great Northern Way, transitioning into a single bike lane to the south of the right-of-way (ROW). Bike lane crossings seamlessly connect the two at the intersection of Great Northern Way and Thornton Street. A spacious treed boulevard along the curb provides separation between the bike lane and the road, complemented by a secondary shrub bed strip that demarcates the bike lane from the sidewalk.

As one approaches the station, the continuity of the sidewalk lane is briefly interrupted by plaza spatial paving material. This distinctive paving serves as a clear indication to all users that they are approaching the station. This designated area is anticipated to be a point where traffic slows down, and bus queues begin to form at the two bus stops.





A- GNW at Lot 8S- looking west



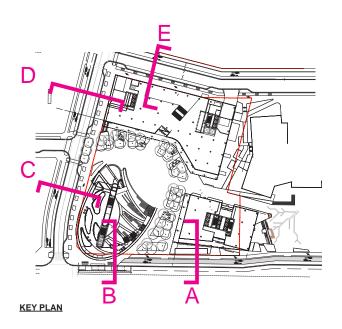
B- GNW at Lot 7- looking west

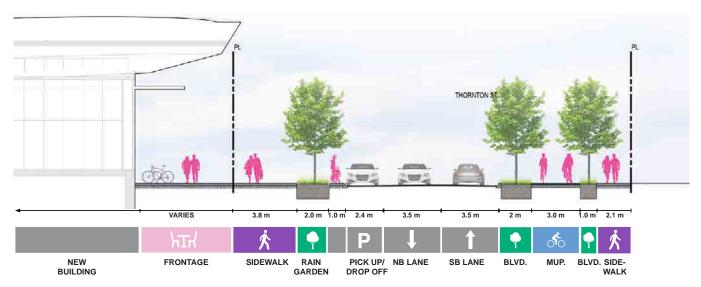
Sections at Thornton Street

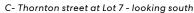
The Thornton streetscape is structured around two through lanes, accompanied by a pickup/drop-off lane adjacent to the station building and residential tower Lot 6. The public realm features a combination of a spacious sidewalk and a two-meter-wide treed boulevard, delineating the pedestrian interface with the development. The station building is set back by six meters, creating a substantial canopied area. This space is partially utilized for Mobi electric bike facilities and provides ample room for momentary stops for SkyTrain passengers. A two-way bike lane, flanked by double rows of treed boulevards, separates the lane from the sidewalk and driveway.

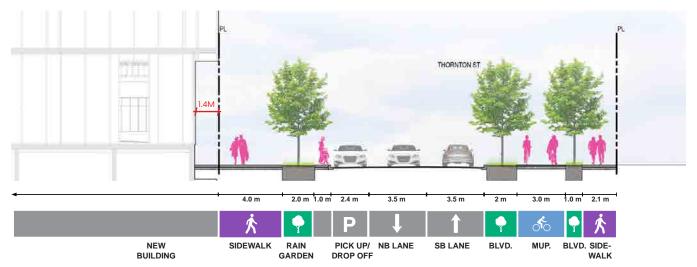
Sections at East 1st Avenue

Significant changes are anticipated for East 1st Avenue, currently ending at a culde-sac, with the goal of extending it to Thornton Street. Expanding on the continuity of the Central Valley Greenway, the street cross-section includes a dedicated two-lane bike lane and a pedestrian walkway on the north side. On the south side, a proposed tree row on grates aims to maximize the walkable surface and streamline pick-up/drop-off activities near residential areas and the market hall entrance from East 1st Avenue.

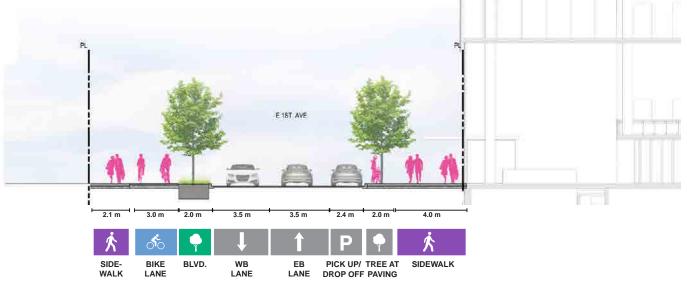








D- Thornton street at Lot 6- looking south



E- Thornton street at Lot 7 - looking south





3.7.8 Pedestrian Connections

Art Alley

Lot 6N is setback from the proposed property line 8 meters to create additional open space between the proposed building and Emily Carr University, creating a pedestrian connection from 1st Avenue East.

Contributing to the campus network, the potential art alley not only connects the public realm, but allows for an intimate space for students from Emily Carr University to display work and engage with the community.

1.

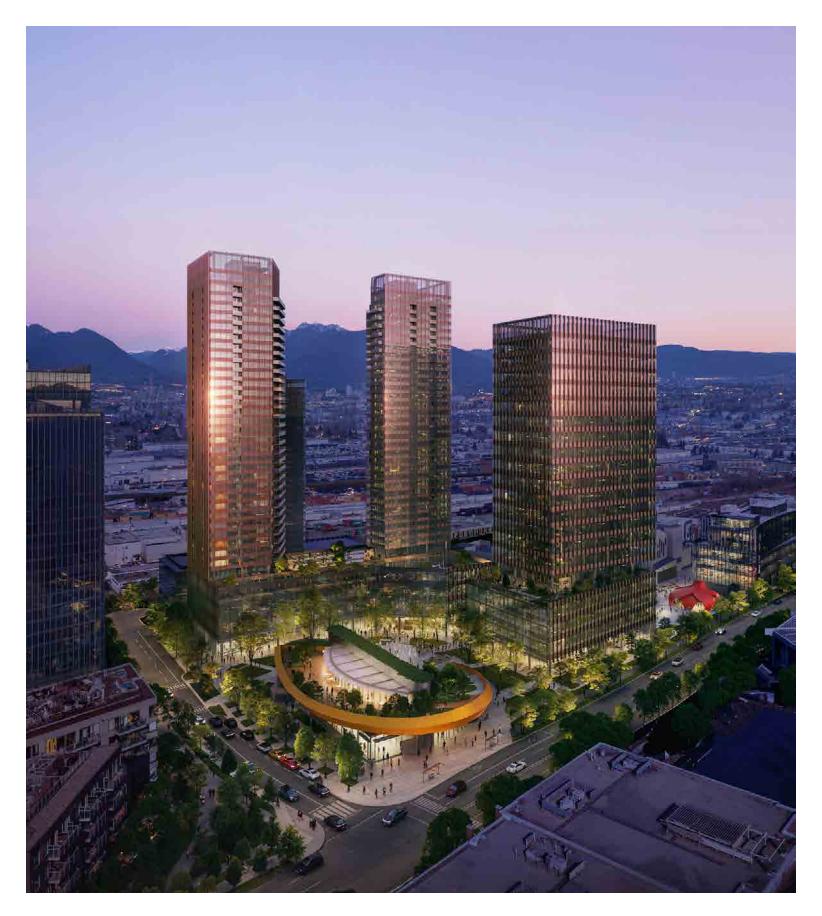




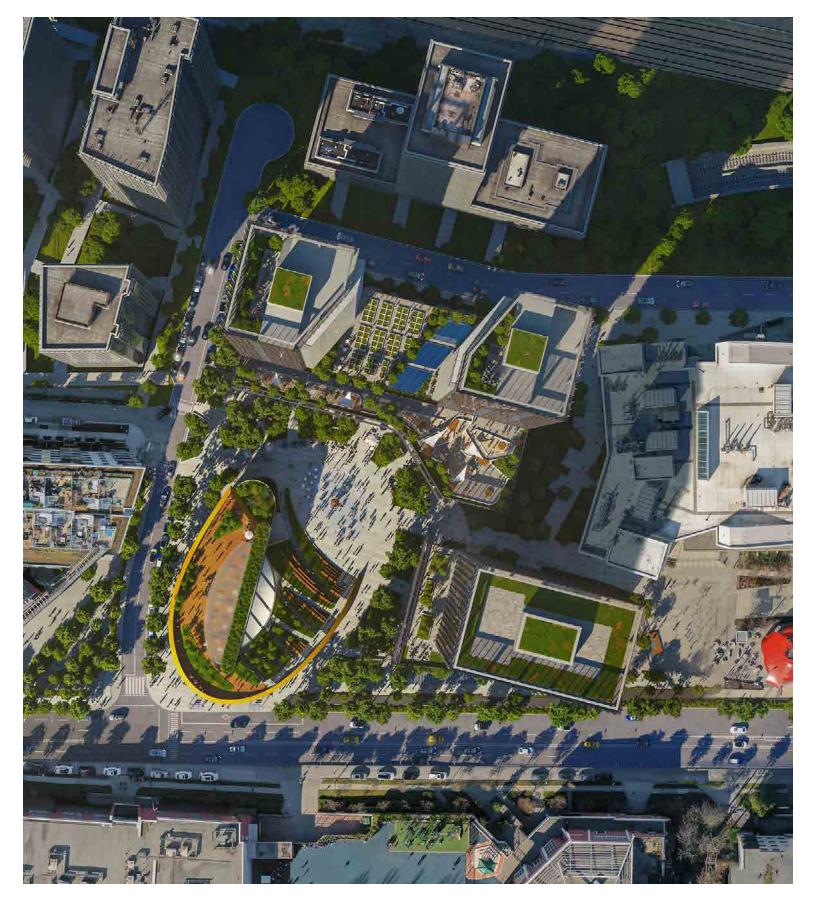




Renderings



Aerial view of project looking North-East



Aerial view of project



View from Great Northern Way looking North into new public space and West into adjacent plaza



View from Thornton Street looking West into heart of the project



View from Lot 6 + 8N podium looking South at the Pavilion





Section 5.0

Response to Application for Rezoning Advice (Letter Of Enquiry)

Contents





5.1 Responses to Pre-Application Enquiry

The Pre-Application Enquiry submission included a series of Points of Enquiry to facilitate discussion with City staff on aspects of the proposed development, of which were unclear at the time of Enquiry submission. Most of these have been answered within the City Letter of Response and subsequent engagement with City staff. The below table summarizes the status of these points of enquiry within the current Rezoning Application Submission. Please refer to previous Pre-Application Enquiry submission for more explanation and graphics illustrating these points at the time of that submission.

Point of Enquiry	Status at Rezoning Submission
4.1 Campus Wide Approach	The Pre-Application submission highlighted some macro scale initiatives that would benefit from a district wide approach within the GNW Campus. While the majority of policy requirements are contained within the bounds of the application site (e.g. childcare provision, parking under new City and Provincial policies for TOD developments, connection to District Energy, urban agriculture) there are some areas where a campus wide approach still makes sense. This includes location of the lot line (and application boundary) east of Lot 8S, and the connection and integration to the public realm to the east and the underground parkade on this adjoining Lot, as well as the boundary of the lot line (and application boundary) north of 8N with the re-alignment and extension of East 1st Avenue.
4.2 (Rerouting of) Central Valley Greenway via East 1st	The proposal is proceeding as per the approach proposed in Pre-Application submission, following discussion with the City. The applicant will continue engagement with relevant departments.
4.3 E 1st Ave Alignment	The proposal is proceeding as per the approach proposed in Pre-Application submission, following discussion with the City and Broadway Subway Project team. The applicant will continue engagement with relevant departments.
4.4 Building Setbacks	The proposal is proceeding as per the approach proposed in Pre-Application Enquiry submission and in alignment with setbacks outlined in Engineering comments in City letter of response. The applicant will continue engagement with relevant City departments. Refer to architectural drawings.
4.5 Curb Space / Set Down	It remains the case that curb spaces surrounding the GNW-Emily Carr Station will be amongst the busiest within the district, with high demand and overlapping uses. General intent is in line with approach proposed in Pre-Application Enquiry submission and applicant will continue engagement with relevant City departments. Refer to architectural and landscape site plan drawings.
4.6 Parking and Loading Provision	The underground site conditions remain as constrained as was outlined in Pre-Application Enquiry submission. The proposal continues to propose a common underground parking (vehicles and bikes) and loading facility beneath the new buildings within the developable footprint of the parkade, and is supported by an accompanying Traffic Demand Management (TDM) Plan in line with latest City of Vancouver policy.
4.7 Plaza Open Space	The proposal is proceeding as per the approach proposed in Pre-Application submission, following discussion with the City. The applicant will continue engagement with relevant City departments. Refer to architectural drawings.
4.8 Building Height & Floor Plate Sizing &	As noted elsewhere in this booklet, the housing component has been updated to include two residential towers of 35 storeys; with the same percentage of multifamily units (35%) and below market units (20%) as within the Pre-Application submission. This aligns with policy direction within Broadway plan, and City comments letter of response to the Pre-Application Submission.
4.10 Housing	The residential tower floor plates are proposed up to 7200 sq.ft/670 sq.m (versus 604 sq.m in the Broadway Plan). This aligns with discussions to date with City Staff in in response to site constraints, family housing mix, and unit sizes to deliver over 500 new homes. Unit sizes are per recommendations outlined in City letter of response to the Pre-Application submission. The applicant will continue engagement with relevant City departments.
	The office tower is proposed at 20 storeys and with a tower floor plate of 13,185 sq.ft/1,225 sq.m, noted to be in excess of the 929 sq.m. within the Broadway Plan. As noted in the response matrix below, and elsewhere in this booklet this development is within the area characterized as the 'Creative District' within the Broadway plan. The is intended as a mixed hub of primarily institutional, light industrial and office developments, anchored by post-secondary institutions such as Emily Carr University of Art and Design (ECUAD), and aims to foster employment uses that support innovation and creative economy uses. A relaxation on the maximum tower floor plate size of recommended 10,000 SF is being sought. The Broadway plan section 11.9 Industrial/Employment touches on floor plates (11.9.6), with a maximum floor plate recommended at 10,000 SF / 929sq.m, primarily along the Broadway corridor. PCI has been in discussions with active employment groups and the brokerage community since LOE submission. In order to respond to some tenant requirements, this project will need to maximize height and provide expanded floorplates to meet market demand. In downtown Vancouver, PCI has completed an office building with 10,000 SF floor plates that has been experiencing difficulty in lease up due to smaller floor plate size. The current design has a tower floor plate ranging from 950sq.m to 1550sq.m on 8S and a shared podium floor plate of approximately 3200sq.m. that would attract some of the employment uses that support innovation and creative economy uses.
4.9 Childcare Provision	In response comments in City Letter of Response to Pre-Application submission and subsequent discussions with City Staff, the application has expanded the Pre-application proposal (37 spaces) and is exceeding the City staff recommended minimum (56-spaces, with 738 sq.m of functional indoor area, and a minimum size of 703 sq.m of functional programmable outdoor area). The applicant proposes a facility catering for approximately 94 childcare spaces. with ~23,000 sq.ft/2000 sq.m indoor area, and ~1000 sq.m of outdoor area. Refer to Architectural Drawings.

5.2 Responses to Letter of Enquiry

Section Title / City Department	City Comment Category	City Comment	Response
General		Staff have reviewed your proposal and are supportive in principle of a mixed-use multi-tower development with varying building heights at this location; however, the proposed maximum building height of 40 storeys exceeds the policy direction of the Broadway Plan.	Tower heights have been revised with Rezoning Submission, as compare to Pre-Application Submission. Two residential towers of 35 storeys and one 20 storey office tower are proposed; aligned with policy direction within Broadway plan, and the letter of response to the Pre-Application Submission.
Proposal		It proposes a total floor area of approximately 89,837 sq. m (967,000 sq. ft.) and a floor space ratio of approximately 7.4. The development site is 12,189.6 sq. m (131,209 sq. ft.) in size The residential component includes approximately 300 units of rental accommodation of which 35% are to be family-sized units. The proposal includes 20% of the rental units as below market units at rates 20% below CMHC's average rent for the neighbourhood. The development also includes 61,707 sq. m (664,210 sq. ft.) of office space and 2,278 sq. m (24,520 sq. ft.) of commercial retail space generally located at grade. A 37-space childcare facility to be dedicated to the City is also proposed. 382 vehicle parking spaces and 1900 Class A bicycle spaces are proposed within four levels of underground parking, accessed from East 1st Avenue.	Rezoning application proposed total floor area up to 7200 sq.ft (670sq.m) and a floor space ratio of approximately 6.41. With the conversion of the tower at 8N to residential the proposal includes approximetly 548 units of rental accomodation, with the same percentage of multifamily units (35%) and below market units (20%) as within the Pre-Application submission. An enlarged childcare program from the envisaged within the Pre-Application submission approximately 94 spaces is proposed.
Staff Advice		The project triggers the Rezoning Policy for Sustainable Large Developments ("RPSLD"), which includes objectives for sustainable site design, tree planting, food assets and mobility. Note that the affordable housing objectives of the RPSLD do not apply, as they are superseded by the housing objectives of the Plan. Please consult the RPSLD for more information about rezoning application submission requirements.	Noted





Railway Orientated Operations		Demonstrate due diligence of building placement with provision of adequate setbacks for life safety design for all railway adjacent buildings. Note: Other municipalities in Canada with similar contexts have identified a minimum setback of 30 m (99 ft.) from any railway site for all commercial and residential buildings in proximity to any railway orientated operations; however, policy work is ongoing in collaboration with therelevant stakeholders to identify the proper design response in Vancouver which may reflect or differ from this standard. Provide a letter demonstrating liaison with Canada Pacific Railway and referred relevant bodies satisfying the mitigation of pertinent issues or concerns in accordance with the intent of the "Guidelines for New Development in Proximity to Railway Orientated Operations".	The new extension of East 1st Avenue extension will be about 54m away from the nearest CPR rail line, meaning the development will be in excess of 70m away. In our discussions with the City on December 5, 2023 it was noted that this matter would not be an issue for this project.
		Demonstrate mitigation of risk for nuisance issues whether acoustic, vibration, or other for all commercial and residential buildings in proximity to any railway orientated operations.	As per above, the applicant will review acoustic and vibration mitigation measures due to proximity to rail operations as the project proceeds through to Development Permit.
Form of Development	Height, Density and Massing	The proposal complies with the maximum allowable density.	Noted.
		This property has been identified as having the potential to integrate with a rapid transit station below grade. Staff support the proposed design strategy to integrate the station to the public plaza.	Noted. Coordination is ongoing with the Province and their design and construction teams delivering the Emily Carr-GNW Skytrain station, including coordination of structural integration of overbuild, elevation treatment of station headhouse and station bike parking provision.
		This proposal significantly exceeds the maximum allowable tower floor plate for office buildings identified in the Plan, Design development to reduce the tower floor plate in compliance with the plan is required.	The proposal will proceed as per the approach proposed in Pre-Application submission and requests a variance as notes in Point of Enquiry 4.8 to attract employment uses that foster innovation and the creative economy, in the area defined as the 'Creative District' in the Broadway Plan.
		The proposal exceeds the maximum allowable height of up to 35 storeys identified in the Plan. Design development to reduce the rental residential tower height in compliance with Plan is required.	Rezoning Submission includes (two) residential towers of 35 stories.
	Site Design	It is recommended that the plaza meet the requirements indicated by Parks in regards to removing underground parking structures. Note: Urban Design staff are available to meet with your team to review and discuss design explorations as your proposal moves through the permitting process	Below grade constraints and necessity behind underground structures were reviewed with Parks and Planning as part of on-going engagement with the City. The comment contradicts commentary elsewhere within this letter (e.g provision of NEU infrastructure). The applicant will continue to engage with Parks on the provision of the public realm and the required open space but given the nature of the mixed use development program above grade, below grade construction for support and servicing infrastructure is necessary and continues to be proposed.
	Tower Separation	Additional design analysis is needed to demonstrate clearly that the proposal complies with the required minimum separation between towers within the development site and does not unduly prevent redevelopment of adjacent properties.	Noted - The tower separation between the two residential towers (Lot 6 and Lot 8N) is 31m. The tower separation between residential and office (Lot 8N and Lot 8S) is 39m.
	Reconciliation	Design development to meaningfully contribute toward the "Cultural Ribbon" concept, described in the "Big Moves" for the Creative District. Note: The Cultural Ribbon forms a walkway that acts as a draw to the area, highlighting Coast Salish knowledge and culture through elements such as art, signage, public realm/landscape design and architecture. Refer to Broadway Plan Section 10.31.7.	Noted-PCI Developments have established an Indigenous Advisory Committee (IAC) led by Aubin Consulting to provide consultation and facilitation throughout the Indigenous Engagement process. This engagement will have a precinct wide focus, including both this site at Lots 6-8 Great Northern Way and the site at Great Northern Way at VCC-Clark Station. Exploratory workshops and engagement sessions have taken place to introduce the vision for both projects to the Committee and discuss areas of opportunity for Indigenous Engagement. This includes but is not limited to opportunities with the public realm and landscape, the buildings, the development of the cultural ribbon as was conceptualized in the precinct charette and overlap with the Public Art process. A submission will be made by the IAC to the City of Vancouver outlining the vision for Indigenous Engagement outside of the Rezoning process and the results of which will be folded into the design both in terms of overall philosophy and with specific interventions. This will form part of the subsequent Development Permit Application for each project.
	Residential Dwelling Units	Dwelling units are recommended to be no less than 46.5 sq. m (500 sq. ft.) for one-bedroom, 70 sq. m (753 sq. ft.) for two-bedroom, and 90 sq. m (970 sq. ft.) for three-bedroom units exclusive of in-suite storage to meet minimum standards of livability. Studio dwelling units must be no less than 37.0 sq. m (398 sq. ft.).	Noted.
		Dwelling units should be designed first and foremost in the interest of the occupants, and should foster a sense of stability and encourage long-term tenancy	Noted and is part of the design strategy for the residential provision.

	More attention should be given to implement the design strategies to minimize the noise and pollution impacts on the units facing the rail.	Noted, the applicant will review acoustic and vibration mitigation measures due to proximity to rail operations as the project proceeds through to Development Permit. Refer to sustainability section for preliminary acoustic analysis.
Residential Outdoor Amenities	The proposal should comply with 2.0 sq. m / dwelling unit ratio for common outdoor amenities.	Noted. Approximately 6190 sq ft / 575 sq m (2.1 m2/unit) of common outdoor amenity is provided per tower.
	Common outdoor amenities should be located throughout the development site, particularly at locations with good solar access and prominent views.	Noted. Outdoor amenity us located on both podium rooftop and tower rooftop providing good solar access and prominent views.
	Accommodations should be made for robust plantings that provide shade, acoustic buffering and visual appeal at all outdoor amenity areas	Noted and is part of the design strategy for the public realm and outdoor amenity areas.
	Providing for a variety of outdoor activities to suit a range of age groups is encouraged. Outdoor amenities may include:	
	Sports equipment like basketball hoops, hockey nets and ping-pong tables; Outdoor kitchens and dining areas; Hobby gardening and urban agriculture beds; Children's play structures; and/or, Sunbathing and picnic areas	Noted. Current outdoor amenity includes a range of activities including urban agriculture beds, outdoor kitchen and dining areas, sunbathing and picnic areas.
Residential Indoor Amenities	The proposal should comply with minimum 1.2 sq. m / dwelling unit ratio for common indoor amenities.	Noted. Approximately 5000 sq ft /465 m2 (1.72 m2/unit) of common indoor amenity is provided.
	Indoor amenities should be designed to give residents of all ages access to a variety of activities that may be difficult to do in apartment homes, and creativity is encouraged. Indoor amenities may include: Acoustically controlled music rooms for residents to play instruments without disturbing their neighbours; Multipurpose rooms for hosting larger functions and parties; Flexible workspaces with small meeting rooms to support working at home; Dog washing rooms with hose bibs and floor drains; and/or Workshops with a tool library.	Noted and will be included as the project evolves and proceeds through Development Permit Process.
Civic Agencies	This proposal will be subject to review by the Urban Design Panel.	Noted
Sustainable Design	All non-occupiable roof surfaces should be designed as green roofs to provide for passive rainwater management and to mitigate the urban heat island effect.	Noted, all non-occupiable roof surfaces e.g elevator overruns, will be designed as a green roof.
General Form of Development Comments	Building architecture and materiality should be of its time while considering the architectural character of the neighbourhood.	Noted, material boards will form part of the development permit process.
	Podium expression should be emphasized more as a prominent massing to comparewith residential towers as a secondary expression. This could be achieved through clearexpression of a finer grain urban fabric, articulating smaller increments and modules, recognizing and appropriately scaling the building entrances to the street and the neighbourhood context.	Noted and will be part of Development Permit process.
Pedestrian Realm Interface and Placemaking	Public Realm should be enlivened to provide opportunities for social connection with human-scaled design that activates the public realm and creates interest.	Noted. The proposed design of the site and architecture of lot 6. 7. 8N and 8S centers around creating a community hub in the middle of the development, connected to adjacent public spaces and buildings fostering social connection.





	Exploration of various design strategies is highly recommended to reduce the area of above grade structure in the plaza and enhance the usable and qualitative open space for all residents.	The site design takes an enhanced approach to Lot 7 and uses the overbuild from the new transit station to ehance the quality of the open space. The pavilion integrated into Lot 7 creates an extension of plaza over the station head house.
	Attractive and pedestrian friendly facades can be achieved by employing finer grainedurban fabric and building modules, high-quality materials and detailing, visually permeable facades, distinct signage, canopies, programming for active outdoor uses, well developed landscape elements, and/or other architectural features.	Noted and will be part of Development Permit Process
Landscape	The site is located on a greenway, in an area that is identified as tree canopy deficient. Incorporation of considerable tree canopy supported by Blue-Green Systems (BGS) as defined in the City's Rain City Strategy is strongly encouraged.	The project strives to achieve an overall 26.8% tree canopy coverage and 36.8% vegetation cover, surpassing the City of Vancouver's Sustainable Large Sites requirement of 20% and 30%.
	The site is identified as an equity initiative zone and the design should respond to this.	The public realm strategy is designed to cater to diverse users while seamlessly integrating with established and upcoming public assets. Recognizing the "creative district" as a "historically underserved area," througout the Development Permit process the project team will continue to design with the main objective of providing resources, programs, and housing for the community.
	Consider improving the interface with adjacent structures and existing conditions to the east, especially Lot 85 interface with St. George Plaza.	The interface of the office on Lot 8S and St George Plaza has been improved through refined building massing that opens up to the plaza with a transparent, glazed facade at-grade with anticipated retail use to complement the activiation of the Red Pavilion Cafe. The landscape has been refined to provide clear orientation to the front entry of Emily Carr and buffered patio spaces that hold grade in front of retail uses.
	Consider providing a central open space with a well-balanced ratio between retail use and public use.	Noted. The building footprints have been designed to prioritize the central open space with social connection and numerous retail parcels on the ground floor of all three buildings including a market hall further drawing in the public to the site.
	Consider providing universally accessible routes from all entry points to the central open space.	Noted. All routes will be universally accessible.
Parks	The park parcel may not be encumbered by non-park related surface or subsurface structures (utilities, parkades, station building, etc.) or other encumbrances such as easements or statutory rights-of-way (SRWs), as indicated in the Park Works Agreement (PWA), specifically: Section 8.3(k) – indicating that the no improvements from adjacent parcels mayencroach into the Park Parcel; and Section 8.3(p) – stating that no structures or improvements may be constructed/placed on the Park Parcel other than the Park Works.	Below grade constraints and necessity behind underground structures were reviewed with Parks and Planning in ongoing engagement with the City subsequent to the Pre- Application submission. Given the
	The only SRW expected under the park parcel is the Broadway subway tunnel shown in the PWA.	nature of mixed use development program above grade (as allowed for and desired in the Broadway
	The configuration and location of the park parcel as shown in the enquiry is acceptable given it is bordered by two public streets there are active uses on the ground floor facing the park, and it has good solar access. Subsequent submissions must continue to show a clear delineation of public and private property and keep the park as one contiguous parcel of 0.49 ha (53,000 sq. ft.) in size (minimum).	Plan), below grade construction for servicing and support infrastructure is necessary and continues proposed. In addition, comments elsewhere in this letter require it (e.g. provision of NEU facilities). T pavilion supports the overbuild and integration of the station as the design integrates a useable rocactivates the public space. The applicant will continue to engage with Parks on the provision of the prealm and the required open space to ensure a cohesive and celebrated public realm is provided.
	Public use of the roof of the station is also supported as an exciting way to elevate views and create overlook of the park. From an ownership perspective, we recommend that this be considered a POPS, not counted toward the overall 0.49 ha (53,000 sq. ft.) park area.	
	The subsequent submission should acknowledge the terms of the PWA.	-
Housing	The project must include a minimum of 35% family units, including a minimum of 10% three bedroom units, and a minimum of 25% two-bedroom units, met separately in both the strata, market and below-market rental units.	Noted and included in Rezoning Submission.
	All new below-market rental housing is required to meet the affordability criteria and other requirements outlined in Broadway Plan policies 12.2.15 – 12.2.18, including that starting rents by unit type not exceed a rate that is 20% less than the City-wide average rents as published annually by CMHC.	Noted and allowed for as part of the application.

	The project must incorporate the High-Density Housing for Families with Children Guidelines (hiips://guidelines.vancouver.ca/guidelines-high-density-housing-for-families-with-children.pdf), including but not limited to: A minimum of 2.3 sq. m (24.7 sq. ft.) of bulk storage for all units; A private open space for each unit which is a minimum of 1.8 m (5.9 ft.) deep by2.7 m (8.9 ft.) wide; Outdoor amenity area suitable in size to the scale of the project, to include areas suitable for a range of children's play activities and urban agriculture, and situated to maximize sunlight access; and Indoor amenity suitable in size to the scale of the project, including a kitchenette and accessible washroom, with direct access to the outdoor amenity area where possible.	Noted and included in the submission.
	If taking the DCL waiver, the project must ensure the average unit size per unit type is less than the maximum set in the Rental Incentive Programs Bulletin. A copy of the DCL Waiver Request Form should be submitted at Rezoning Application stage.	Noted and included in the submission.
	The rental and below-market rental tenure must be secured for a term of 60 years or life of the building, whichever is greater, through legal agreements (e.g. Housing Agreement pursuant to section 565.2 of the Vancouver Charter, including no stratification and no separate sales covenants).	Noted
	In zoning districts where the Rental Housing Stock Official Development Plan (RHS ODP) applies, projects will require one-for-one replacement of existing rental housing units with new secured rental housing units (Broadway Plan policy 12.2.13).	Noted- no existing rental units on the development site.
Engineering	As per the Public Bike Share (PBS) SRW Agreement (CA4605271-CA4605278) for 555 Great Northern Way registered on August 13, 2015: A 43 m x 4 m (linear) or 23 m x 8 m (back-to-back) sized PBS station shall be accommodated on this site. The station must be fully located on private property while still clearly visible to the public with 24/7 public access. The preferred location is near the intersection of Great Northern Way and Thornton St to allow easy access to the street.	Noted and included in Rezoning Submission.
	The applicant will be asked to provide the following off-site improvements: A 18.97 m (62.24 ft.) wide dedication is required along the north of the site for the East 1st Avenue extension to Thornton Street. The new property line will be aligned with the SRW Plan EPP56251 line as shown in the rezoning enquiry package. Building setbacks/SRWs to achieve 1.4 m (4.6 ft.) from the property line for widened sidewalks along Thornton Street. The SRW shall be free of any encumbrances at-grade. Additional off-site improvement requests apply. See 3. Notes for Future Development Stages below.	Noted and included in Rezoning Submission.
Neighbourhood Energy Utility	Design the building(s) heating and domestic hot water system to be compatible with the NEU system to supply all heating and domestic hot water requirements.	Noted and is part of the district energy strategy for the development.
	Explore waste heat recovery opportunities including but not limited to heat recovery from building cooling, data centres, sewage, and commercial refrigeration.	Noted and is part of the servicing strategy for the development.
	Provide for an adequate and appropriate dedicated Energy Transfer Station (ETS) room (free of other equipment) located on the highest below-grade level. The ETS room must be located with an exterior wall adjacent to existing/planned NEU distribution piping and easily serviceable by the NEU. The dedicated ETS room and its access route shall facilitate installation of prefabricated Energy Transfer Station (ETS) skid(s). Sufficient space along access route is required to allow installation/maneuverability of ETS skids.	Noted and is part of the district energy strategy for the development.





	Provide for an adequate and appropriate dedicated NEU Room located on the highest belowgrade level, developed in consultation with the City, to house NEU infrastructure required to serve growth in this section of the network. The NEU Room shall be made available at the earliest phase of the development to accommodate NEU infrastructure. Preliminary design features of the NEU Room includes: Estimated 130 sq. m floor area (aspect ratio not narrower than 3:1); 4.5 m clear height at minimum; At least one outside wall adjacent to existing/future NEU distribution piping; Drive-in access and appropriate structural capacity along drive-in route; and Adequate provisioning of electrical, natural gas, ventilation, plumbing, venting/boiler flues, telecommunications, lighting, and life safety systems.	Noted and allowed for as part of the application.
Economic Development	Floor areas set out for employment spaces in CD-1(402) Table 1 are considered a collective minimum for all employment uses for this rezoning.	Noted and allowed for as part of the application.
	Retail can be prioritized over office for this site due to adjacency to transit station and large amount of residential to the west. Conversion lower level office (e.g. at least Level 2) to additional retail to increase amenity on the site is encouraged (see Section 2.1(c) in CD-1 Guidelines). Consider providing larger grocery store to provide daily needs on 2nd level for larger floor plate.	A market hall is being proposed as part of the application within the podium of Lot 6 and 8N. The opportunity for grocery will be explored.
	Ensure/maintain connection to ECUAD campus and St George Plaza and the Red Petal Pavilion building.	Noted. The proposal maintains and enhances the connections to adjacent buildings and public spaces as noted under the landscape comments above.
	Strong economic development support for providing childcare on this site.	Noted.
Rezoning Policy for Sustainable Large Developments	As the application contains 45,000 sq. m (484,375 sq. ft.) or more of new development floor area, the Rezoning Policy for Sustainable Large Developments ("RPSLD") applies (see also the Sustainable Large Developments Bulletin). The rezoning application must meet seven of the eight policy areas: 1) sustainable site design; 2) sustainable food systems; 3) green mobility; 4) potable water management; 5) rainwater and groundwater management; 6) zero waste planning; 7) affordable housing (omitted from requirements as below-market rental is proposed); and 8) resilience. Note: As part of your application submission, please include a summary document of how theproposal intends to meet the policy areas in the RPSLD.	Noted - included in Rezoning Submission package
	The project must fulfill the Sustainable Food Systems requirements of RPSLD by providing three food assets. When developing the rezoning application, staff recommend reviewing the Broadway Plan and Vancouver Plan food systems policies and proposing assets and land uses that align.	Noted - included in Rezoning Submission package





Childcare	The City maintains a strong preference to operate larger childcares where sites can accommodate them, for maximum efficiency of childcare operations and ongoing facility maintenance.	The applicant proposes a facility catering for approximately 94 childcare spaces, with ~2000 sq.m indoor
	Staff recommend a minimum 56-space facility to be delivered, to wholly fulfil the obligations of the original childcare commitment on this site (with a minimum size of 738 sq. m of functional, programmable indoor area, and a minimum size of 703 sq. m of functional, programmable outdoor area, as per the Childcare Design Guidelines).	area, and ~1000 sq.m of outdoor area. Refer to Architectural Drawings.
	Proposed location, on the 6th floor of the 40-storey residential tower (Lot 6), is not ideal for a functional, programmable 37-space childcare, and would not be sufficient in size to accommodate a 56-space facility (CoV preference). For a 37 space facility composed of two programs (12 space toddler, 25 space 3-5), functionality of the indoor area is compromised by a large, divided core, resulting in narrow programmable spaces, low visibility and challenging supervisability; Outdoor space will be challenged to meet solar access guidelines, which call for a minimum of three hours of sunlight per day, including two hours of sunlight during typical playtimes of 9:30 am - 11:30 am or 1:30 pm - 4:00 pm (staff will accept shadow studies on Feb 1st instead of winter solstice); The irregular shape of the proposed outdoor space, with a narrow strip on south end, is not functional for the outdoor play area layout; Concern with the outdoor play area placed in a potential wind tunnel between the two towers; Current tower design will ensure that many residential balconies will be located above the childcare play area, which should be minimized as per the Childcare Technical Guidelines; Entrance to the childcare on north side (East 1st) is not preferred, as it lacks visibility /accessibility, particularly for transit users.	The expanded childcare facility remains on Level 03 of the podium, stretching across lot 6 and 8N in turn providing indoor and outdoor area to accommodate approximately 94- space facility. Please refer to sustainability section for initial performance analysis, including solar access studies. Further studies including wind acoustics and outdoor programming will be a part of the development permit process. The outdoor childcare location allows for significant sunlight access as per the study included in the rezoning package.
Public Art	The Public Art Policy and Procedures for Rezoned Developments requires rezonings having a floor area of 9,290.0 sq. m (100,000 sq. ft.) or greater to contribute public art (Option A) or provide 80% cash in lieu (Option B) as a condition of rezoning. Public art budgets are based on a formula (2016) of \$21.3125 per sq. m (\$1.98 per sq. ft.) for all areas contributing to the total FSR calculation. Please note that the Public Art rate is finalized at the development permit stage and is subject to periodic adjustments to address inflation.	Application will submit Public Art Check list and Preliminary Public Art Plan as part of the Rezoning Application with the detailed Public Art Plan to follow (as a condition of DP issuance).
	This project sits in the area of the Broadway Plan, which includes a key direction to "Focus public art investment in public spaces, including plazas, parks, and as a component of complete streets, to centre art in daily life." The City will seek to identify opportunities to deploy shared resources to advance this goal, including through Option B payments. Please review chapter 17 of the Broadway Plan, "Arts and Culture," particularly the policies outlined in section 17.6.	Noted and will be part of Development Permit and Public Art process.
	This project also lies within the Creative District area identified in the Broadway Plan. One of the "Big Moves" for the Creative District is the concept of a Cultural Ribbon forming a link from East Vancouver towards False Creek. The Cultural Ribbon will be a walkway that acts as a draw to the area, highlighting Coast Salish knowledge and culture through elements such as art, signage, public realm/landscape design and architecture.	Noted Indigenous Engagement is ongoing and the Cultural Ribbon Concept will continue to be a part of Development Permit process.
	New developments in the Creative District should meaningfully integrate, reflect, and advance the Cultural Ribbon in consultation with the Host Nations and led by Musqueam, Squamish and Tsleil-Waututh peoples.	
	Please contact public art staff at publicart@vancouver.ca to discuss opportunities for public art and potential partnerships prior to submitting a rezoning application.	Noted and will be part of Development Permit and Public Art process.
Community Amenity Contributions	A real estate pro forma analysis is required with a rezoning application submission in accordance with the City's CAC policy.	Noted and will follow subsequent Rezoning Application intake.
Engineering	Vehicle parking, loading, bicycle parking, and passenger loading are to be provided as per by-law requirements and Childcare Design Guidelines. The proposal will additionally be required to consider TransLink's operational loading/parking needs, e.g. maintenance or police vehicle parking spots in the underground parking with direct connections to the stations.	Noted - included in Rezoning Submission package
	Enter into a shared access agreement for underground parking access to/from adjacent site.	Noted and will follow subsequent Rezoning Application intake.

	Drawings should indicate parking and loading layout as per by-law and design guidelines. Refer to the following links for additional design requirements: o Parking By-law: hiips://vancouver.ca/your-government/parking-bylaw.aspx o Parking and Loading Design Supplement: hiips://bylaws.vancouver.ca/Bulletin/parkingloading-design-supplement-bulletin.pdf o Shared Vehicles: hiip://bylaws.vancouver.ca/bulletin/S008.pdf o Childcare Design Guidelines: hiips://guidelines.vancouver.ca/guidelines-childcaredesign.	Noted - included in Rezoning Submission package
	A Transportation Assessment and Management Study (TAMS) is required with the application. o The applicant's transportation consultant is required to submit the TAMS Terms of Reference to Engineering for review and approval prior to undertaking their study.	Noted - included in Rezoning Submission package
	Transportation Demand Management (TDM) plans are mandatory for Sustainable Large Site developments and will be required with each subsequent development permit application. Note that TDM reductions are not applicable to accessible spaces, visitor parking, loading, bike spaces, passenger loading, or childcare spaces. TDM Schedule A worksheets and sufficient background information to assess the proposed TDM plan is required. o Per 10.31.8 of the Broadway Plan, as part of the TDM plan, the applicant is strongly encouraged to explore options and provide for a publicly accessible bike mobility hub accessible, including significantly enhanced end-of-trip facilities, to complement station bike storage rooms. Note also that requirements for delivery of the Public Bike Share station are eligible for credit towards the site's TDM plan(s).	Noted - included in Rezoning Submission package
Transit Urban Design	Full overbuild of the airspace over the station footprint is strongly encouraged per the Broadway Plan and is a key priority for this site. Design of overbuild should take measures to minimize shadowing of the proposed plaza space north of the station site.	Contradicts previous direction in terms of siting of towers and public open space. Lot 7 station overbuild aims to enhance public realm with majority of the development density on Lots 7, 8N and 8S
	Proposals for overbuild of the station site should demonstrate how the priorities outlined insection 11.10 Transit Integration and Urban Interface of the Broadway Plan have been considered to further enhance the transit experience.	Noted - included in Rezoning Submission package
	Coordination of overbuild material, articulation and massing to provide a sympathetic response to station design is required.	Noted - included in Rezoning Submission package
	The proposal shall integrate station emergency access.	Noted - included in Rezoning Submission package
	Solar studies of any potential overbuild of the station entrance to understand potential shadowing of the park, are required the application submission.	As per above, siting of towers and public open space is configured to maximize solar access on the public realm. Lot 7 station overbuild aims to enhance public realm with majority of development density on Lots 7, 8N and 8S. Solar analysis and shadow studies form part of the rezoning application.
	The applicant should coordinate with TransLink regarding any issues related to clearances for the overbuild development above station:	Coordination with the province and Translink subway project team is ongoing.
Flood Protection	It appears this address was included in the floodplain due to an old excavation or depression that may no longer exist. The Flood Construction Level is 4.6m elevation which should be easily achievable as the lot appears to be at or above 5.0m elevation. The northern end of Thornton Avenue is within the floodplain. The floodplain only identifies areas at risk of coastal flooding from False Creek. Areas at risk of overland flooding due to internal drainage network capacity can include areas outside the coastal floodplain. If underground parking is proposed for this development, the location and design of the parkade entrance may wish to consider mitigation measures to prevent overland flow from entering a down-sloped parkade ramp.	Noted and will be part of Development Permit process.
Sustainability	The Green Buildings Policy for Rezonings requires that rezoning applications satisfy the green and resilient building measures detailed in the policy. More information can be found in the hyperlinked policy here and submission requirements can be found in the bulletin for Green Buildings Policy for Rezoning - Process and Requirements.	The office building on lot 8S will be built to LEED Gold standards, and the development will conform with the City's Green Building Policy for Rezonings.
Rezoning Policy for Sustainable Large Developments	As part of your application submission, please include a summary document of how the proposal intends to meet the policy areas in the Rezoning Policy for Sustainable Large Developments.	Noted - included in Rezoning Submission package
Utility Servicing	*Please note that advice regarding utility servicing, including sewer, domestic water and fireflow, groundwater, rainwater management and other related requirements will be provided in a forthcoming addendum to this Letter of Response.	Noted





Housing		The rental tenure must be secured for a term of 60 years or life of the building, whichever is greater, through legal agreements (e.g. Housing Agreement pursuant to section 565.2 of the Vancouver Charter, including no stratification and no separate sales covenants).	Noted
Engineering	The applicant will be asked to provide the following off-site improvements:	o Public realm improvements along the site frontages such as, but not necessarily limited to: curb and gutter, curb bulges, protected bike lanes, sidewalks, lighting, curb ramps, lane crossings, and street trees. o Construction of the E 1st Avenue extension from property line to property line along the north edge of the site. o Street improvements on E 1st Avenue between the existing cul-de-sac and Carolina Street, as required to provide a AAA (all ages and abilities) protected cycling facility to replace the Central Valley Greenway (CVG) connection through the site which will be removed. o Street improvements on Thornton Street adjacent to the site to rebuild the existing bike lane and sidewalk to current standards o Site design and cycling connections should provide easy, convenient and legible access to the station bike storage room. o Provision of funding towards and/or delivery of off-site improvements (such as, but not necessarily limited to: neighbourhood traffic calming, signal upgrades, etc.) may be required and will be determined following review of the full application. o Existing bus stop conditions are to be maintained. Ensure no new trees are proposed in the bus zone.	Noted - included in Rezoning Submission package and will continue to form part of the Development Permit process.
	Construction Requirements and	This proposed site is within close proximity to the Broadway Subway Project and street use will need to be coordinated with the Broadway Subway Project. Street use in the vicinity may be limited to ensure neighborhood circulation is maintained during Broadway Subway work (e.g. 1st Ave, 2nd Ave / Great Northern Way, Scotia St). We ask that this is considered in early stages of the project.	Noted. Coordination with the province subway project team is ongoing.
		For the future East 1st Avenue alignment: o The applicant should continue to work with the City and Province to develop a strategy for implementation of the ultimate road configuration. The Province's contractor is responsible for restoring like for like which aligns with the previous structure plan. It will be the applicants responsibility to ensure that new City street assets are delivered at the end of the process in like new condition with full service life. o There is a scope split on the E 1st Avenue connector, i.e. Project Co will realign the road but PCI will be responsible for completing the sidewalks / bike lane, streetlight lighting, etc.	Noted. Coordination with the province subway project team is ongoing.
		The Province, Project Co. and PCI have met on several occasions to discuss future development adjacent to BSP – there are requirements that PCI will need to meet some of which are captured in BSP Structural Dwgs (ref. "Future GNW Development Basis of Design Dwg No. BSP-70340-S1MM-42DD-1010").	Noted. Coordination with the province subway project team is ongoing.
		Arrangements are to be made to the satisfaction of the General Manager of Engineering Services and the Director of Legal Services for the Consolidation of: o Lot 6, District Lots 264A and 2037, Plan EPP58103 o Lot 7, District Lots 264A, Plan EPP58103 o Lot 8, District Lots 264A and 2037, Plan EPP58102 to create a single parcel.	Noted
		A title search and charge summary of all non-financial charges on titles will be required to determine any implications for the proposed development.	Noted and provided as part of the Rezoning Application Submission.
Development Cost Levies		The City-wide Utility DCL applies to new developments on a square foot basis and is in addition to the City-wide DCL, to be paid prior to building permit issuance. See the DCL Bulletin for current rates: hiips://vancouver.ca/files/cov/development-cost-levies-bulletin.pdf	

As per the City of Vancouver's Community Benefits Agreement Policy ("CBA Policy"), applicant must enter into a Community Benefits Agreement, which will commit the Applicant and its development partners to:

- o Participate in a First Source Hiring program, in consultation and partnership with community stakeholder groups and the City, making new entry level jobs available to equity seeking community members in Vancouver first and striving for an overall target of 10% of labour (Including that for contractors, subcontractors and other possible vendors) sourced from low-income communities and equity seeking groups across the city; including women in trades, Indigenous people, racialized communities, and others facing barriers to opportunity due to discrimination, exclusion and stigmatization;
- o Demonstrate Best Efforts to procure a minimum of 10% of material goods and services from third party certified social impact and/or equity seeking businesses and social enterprises, across the entire lifecycle of the development site, prioritizing Vancouverbased ventures but extending through supply chains regionally and outside the Province and the Country where and when required. This Includes, where applicable, post-occupancy and ongoing service needs;
- o Demonstrate Best Efforts to attain 10% procurement of materials, goods and services from Vancouver companies or companies located in Metro Vancouver or British Columbia. These may or may not also be equity seeking 3rd party certified businesses as defined in the policy;

Community Benefits Agreements

- o Retain the services of an independent third party to the satisfaction of the City in order to assist in monitoring and reporting on the progress towards reaching these goals on an agreed upon timeline with the City of Vancouver during and upon completion of the project and its various development phases. This may include, where applicable and where possible, post-occupancy and ongoing service needs; and
- o Participate in a Project Specific Implementation and Monitoring Working Group with City staff, industry and training and skill development bodies, employment services organizations, and community representatives with knowledge of social procurement, social hiring, and community economic development.

Noted



Section 6.0

Applicable Policies

Contents

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6.3 Broadway Plan (2022)





6.1 Rezoning Rationale & Applicable Policies

6.1.1 List of Applicable Policies & Guidelines

The following policies and guidelines are applicable to the site and the proposed development

- Broadway Plan (2022)
- Rezoning Policy for Sustainable Large Developments (2018, last amended 2023)
- CD-1 (402): Great Northern Way Campus By-law No.8131 (1999, last amended 2022)
- High-Density Housing for Families with Children Guidelines (1992, last amended 2022)
- Housing Vancouver Strategy (2017)
- · Childcare Design Guidelines (1993, last amended 2021)
- Community Amenity Contributions Policy for Rezonings (1999, last amended 2023)
- Green Buildings Policy for Rezoning (2010, last amended 2023)
- Making Space for Arts and Culture: Cultural Infrastructure Plan (2018)
- Public Art Policy and Procedures for Rezoned Developments (2014)
- Community Benefit Agreements Policy (2018)
- Development Cost Levy Bylaw No.9755 (2008, last amended 2022)
- Vancouver Utilities Development Cost Levy By-law No.12183 (2018, last amended 2022)
- Development Cost Levies Bulletin (2000, last amended 2023)
- Urban Forest Strategy (2018)



6.2 General City of Vancouver Policies

Family Room: Housing Mix Policy for Rezoning Projects



Family Room:

POLICY 1: Rezoning applications that include any residential strata housing are required to include a minimum of 35 percent family units (units having two or more bedrooms), including a minimum of 10 percent three-bedroom units and a minimum of 25 percent two-bedroom units.

OR

POLICY 2: Rezoning applications for secured market rental projects are required to include a minimum of 35 percent family units with two or more bedrooms.

→ RESPONSE

35% of the rental units are family units.

The proposal envisions two 35-Storey towers on Lot 6 and 8N that will provide approximately 548 units of rental accommodation of which 35% are family units and will comply with the "High Density Housing for Families with Children Guidelines"

The proposal includes securing 20% of units as affordable housing at rates 20% below CMHC's average rent for the neighborhood, aligning with 12.2.1.b of the Broadway plan.

This is in line with the Broadway Plan, as well as the City's Rental Incentives Program Bulletin.

High-Density Housing for Families with Children Guidelines (1992)



High-Density

The High-Density Housing For Families With Children Guidelines are intended to be used in conjunction with the Zoning and Development By-Law or an official development plan for new conditional approval residential developments, both market and non-market, of 75 and more units per hectare in density, which are designed specifically for families with children.

The intent of the guidelines is to address the key issues of site, building and unit design which relate to residential livability for families with children.

→ RESPONSE

The project will comply with the "High Density Housing for Families with Children Guidelines" and provide a variety of amenity spaces along with 6' deep balconies for family units. In suite storage has been provided, where possible.

Community Amenity Contributions through Rezonings



Community Amenity Contributions - Through Rezoning

Community Amenity Contributions (CACs) are in-kind or cash contributions provided by property developers to help address growth costs, area deficiencies, and/ or other community needs and impacts. CACs are generally for capital facilities.

There are two types of CAC policy areas in Vancouver:

The citywide CAC area applies to most of the city. For all rezonings in the Citywide CAC area, the CAC is determined through a negotiated approach.

Specific CAC policy areas apply to locations with their own CAC and/or public benefit policies. For all rezonings in the area-specific CAC policies, the CAC is determined through a CAC target and/or negotiated approach.

→ RESPONSE

Response is contained in separate CAC proposal, which will be in line with City Policies.

Public Art Policies and Procedures for Rezoned Developments



Public Art Policy

The Public Art Policy applies to:

All floor areas contributing to the FSR calculation of any residential, commercial, institutional or industrial rezoning resulting in increased floor space or in a change from agricultural or industrial to commercial or residential use.

Rezoning developments of 100,000 square feet (9,290 square meters) or greater.

The Policy may also apply, at the discretion of the City, to projects where a substantial public benefit is sought.

The public art budget is calculated by multiplying all areas contributing to the FSR calculation (as established for the Development Permit) by the public art rate of \$1.98 per square foot or \$21.3125 per square meter.

Prior to rezoning enactment, the elected option, Onsite Artwork (Option A) or Cash-in-Lieu (Option B), must be confirmed.

→ RESPONSE

The unique nature of this project offers a great opportunity to complete meaningful public space and architecture with art. A public art liaison is part of the project team, with overlap with the Indigenous Engagement process. It is intended to curate a successful on-site public art program that takes advantage of the mixed-use nature of this project.



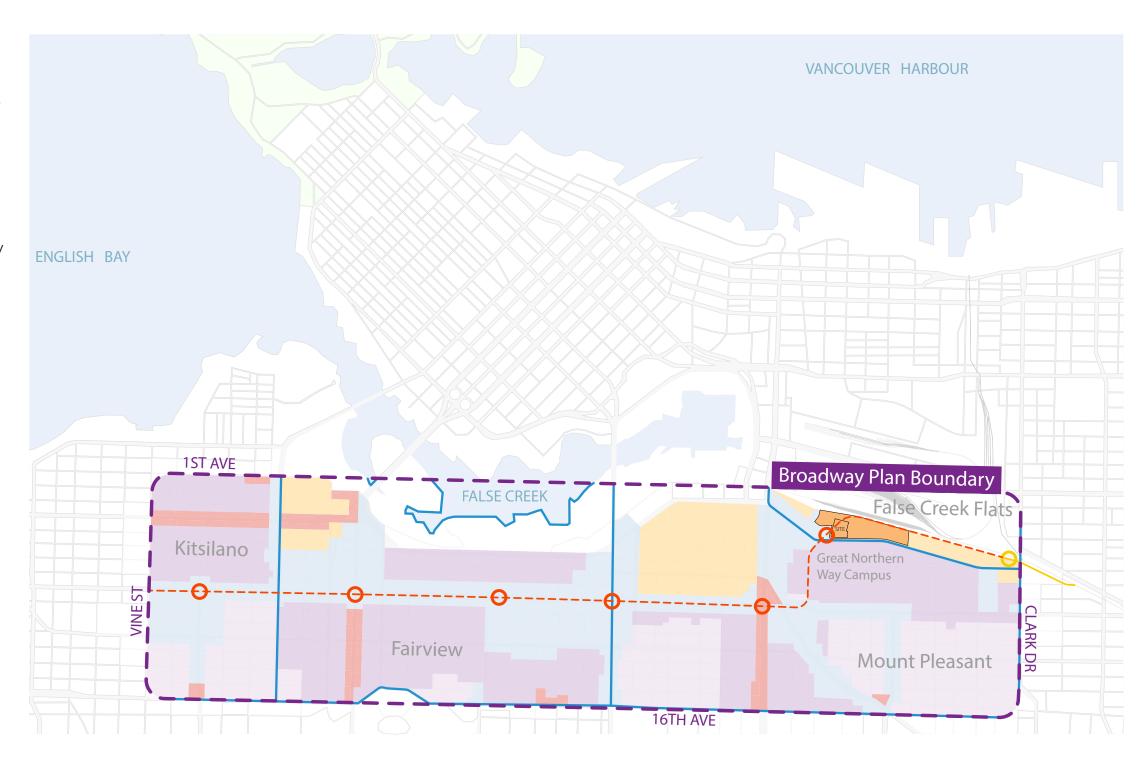


6.3 Broadway Plan (2022)

6.3.1 Overview

The site is located within the Broadway Plan area that provides a clear and flexible policy framework to guide growth, positive change, and the delivery of public benefits in the Broadway neighborhoods over 30 years.

The Broadway Plan is organized around four general character areas. This Development is part of centers which are generally the newer mixed-use and commercial areas where the majority of housing and job space has been built in the past 40 years. Highly accessible and with a varied character, these higher-density places will integrate with the Broadway Subway and provide additional opportunities for housing, job space, shops and services, and amenities to meet both local community and city-wide needs.





6.3.2 Rezoning Policy for the Character Areas - Centres

6.1

The station areas will typically have a mix of high-density housing (outside of Uptown) and major employment spaces as well as shops, services and amenities, with building heights of up to 30 to 40 storeys. Streetscape improvements, active ground floor commercial uses and gathering places will foster a lively public realm and integrate with the new Subway stations, creating hubs of round-the-clock vitality.

6.3.3 Rezoning Policy for the Character Areas - Large and Unique Site

10.31

Support the long term expansion of the Great Northern Way Campus with a broader range of uses.

10.31.4

Consider building heights generally up to 35 storeys nearest to Emily Carr–Great Northern Way Station, with lower building heights throughout the remainder of the area to provide variation in building heights.

→ RESPONSE

The proposal aims to be a pioneering transitintegrated comprehensive development within Great Northern Way campus by providing diverse use and surrounding density which effectively stimulates the transit efficiency.

In addition to significant upfront investment and construction jobs, there will also be long term employment provided by the retails and childcare, and dedicated operations associated with each tower.

The proposal is providing retail and commercial space at grade to contribute to the delivery of an active, productive, and populated city quarter. Large podium floor plates allow for a range of activities fostering innovation within the creative district. The applicant is seeking general office classification to encourage flexibility in accommodating rapidly evolving innovation industry and education uses.

Our proposal places the tallest buildings of 35 stories on Lot 6 and 8N delivering much needed rental housing with the opening of the GNW Emily Carr Station, with the adjacent office building on 8S stepping down in height at 20 stories respectively. The building positioning and heights aim to minimize shadow and view impacts upon public open spaces and neighboring development.

10.31.2

Residential uses (e.g. market rental, below-market rental, or student housing) focused in the areas in closest proximity to the new Emily Carr–Great Northern Way Station. Residential uses will only be considered in areas designated as "General Urban" by Metro Vancouver, in accordance with Metro Vancouver land use designations.

→ RESPONSE

The site is entirely designated "General Urban" within Metro Vancouver Regional Growth Strategy.

Two towers of residential use (80% market rental, 20% below-market rental) are proposed on Lot 6 and 8N, immediately adjacent to the new GNW Emily Carr Station.

10.31.5

Require amenities to be provided on site, such as new public open/green space near Emily Carr–Great Northern Way Station, childcare, and public art.

→ RESPONSE

The proposal retains the 0.49ha open space as was allowed for within the original Lot Q Structure Plan and pulls this into the heart of the plan configuration and creates a large urban plaza, a public open space amenity to be shared across the precinct. There is a comprehensive landscape strategy that offers connection to nature as well as opportunities to mitigate the heat island affect, particularly prevalent in this area. There will be opportunities for Public Art explored within the proposal

As outlined in Section 3.6, the open space continues up on to the roof on top of Lot 7 over the GNW Emily Carr station, providing an extensive accessible and programmable rooftop area with flexible indoor space below.

Childcare facilities are located on the podium roof of Lot 6 and 8N, serving the wider community in close proximity to transit station and employment opportunities. Lots 6, 8N & 8S have amenity program associated with their residential and office use respectively.

Opportunities for public art will explored within the proposal to integrate a significant and captivating art installation to act as both an attractor and activator with the plaza.





Broadway Plan (2022)

5.3.3 Rezoning Policy for the Character Areas - Large and Unique Site

10.31.6

Support and facilitate the location of future NEU energy generation infrastructure, including the preservation of adequate space in a location that has appropriate proximity to NEU infrastructure.

→ RESPONSE

In 2014 the False Creek NEU expanded into Great North Way campus lands. Provision has been made within the proposal for connection to this district energy system, with space allocated within the parkade for utility rooms and rooftop units on Lot 8S providing plant equipment to provide the shared site approach to heating and cooling.

10.31.7

Development should meaningfully contribute toward the "Cultural Ribbon" concept, described in the "Big Moves" for the Creative District.

→ RESPONSE

As per section 2.13 Indigenous Engagement PCI Developments have established an Indigenous Advisory Committee(IAC) led by Aubin Consulting to provide consultation and facilitation throughout the Indigenous Engagement process. This will include the development of the cultural ribbon as was conceptualized in the precinct visioning charrette hosted by the applicant in November 2021.

10.31.7

Full overbuild of the airspace above the Emily Carr-GNW Station entrance is strongly encouraged for rezoning of properties including and connected to the Emily Carr-GNW Station site. Other transit supportive urban design and mobility enhancements, including a bike mobility hub (safe, secure bike parking with end-of-trip facilities), should also be provided.

→ RESPONSE

The overall parcel configuration for Lots 6-8 within this proposal builds on the 2002 Structure Plan open space requirement of 0.49 Ha (previously located on Lot 6) with a reconsidered site plan following discussions with the City of Vancouver in response to the emerging Broadway Plan and new Transit Station.

The proposal places the open space at the centre of the site with reduced height on Lot 7 over the transit station and the residential towers are moved to Lot 6 and 8N along the quieter streets of Thornton and East 1st. This allows increased solar exposure, visibility to GNW, and greater opportunities for active edges. The building on Lot 7 allows integration with the transit station and plaza. The station head house will be integrated as part of a recognizable landmark building that extends the public realm and creates spaces for a destination-type program. The podium and towers on Lots 6, 8N and 8S wrap the plaza to create a sense of enclosure, place and identity for an important node in the precinct.

The proposal seeks to enhance the functionality of the transit system by providing clear and legible access to the station and using the public realm to encourage access and use of the transit system. The application is supported by TDM Plan B that promotes sustainable mobility choices, including the provision of significant bike storage serving both the building occupants themselves and aims to create a wider district cycling hub. End-of-trip facilities and bike repair facilities are also provided.

6.3.4 Housing - Affordability and Supply

12.2.1

Enable higher-density housing options in station areas and shoulder areas through additional height and density for new Developments that do one of the following:

- **a**. Provide 20 per cent of the residential floor area as social housing to be owned by the City and delivered as completed units on terms that are satisfactory to the City.
- **b**. Provide 20 per cent of the residential floor area as below-market rental housing with the remainder of the residential floor area as secured market rental housing.
- **c**. Provide 100 per cent of the residential floor area as secured rental housing.
- **d**. Provide 100 per cent of the residential floor area as strata ownership housing with a community amenity contribution (cash contribution or in-kind contribution).

→ RESPONSE

The proposal envisions two residential towers on Lot 6 and 8N that will provide approximately 548 units of rental accommodation of which 35% are family units and will comply with the "High Density Housing for Families with Children Guidelines"

The proposal includes securing 20% of units as affordable housing at rates 20% below CMHC's average rent for the neighborhood, aligning with 12.2.1.b of the Broadway Plan.

5.3.4 Housing - Affordability and Supply

12.2.12

Where appropriate, support large and unique sites to redevelop as denser, mixed-use developments with additional height and density to support new housing choices, including social, below market and market rental housing.

→ RESPONSE

The proposal is providing retail and commercial space at grade to contribute to the delivery of an active, productive, and populated city quarter. Large podium floor plates can allow for a range of activities fostering innovation within the creative district. Moreover, the floor plate size for towers with a maximum building height aims to minimize shadow and view impacts upon public open spaces and neighboring development.

The applicant is seeking general office classification to encourage flexibility in accommodating rapidly evolving innovation industry and education uses.

6.3.5 Community Well Being - Childcare

16.1.1

Increase the number of accessible childcare spaces for children aged 0–4 by supporting or requiring facilities through new development. Focus areas include: d) Large and unique development sites

→ RESPONSE

The proposal aims to provide approximately 94 spaces (24 0-3y/o, 20 preschool and 50 3-5y/o), as per recommended space allocations in Table 6, Childcare Design Guidelines. The childcare will be located on Lot 6 and 8N, at the base of the residential tower program, with the outdoor play area on the contiguous podium roof

6.3.6 Community Well Being – Food Systems

16.4.3

Build and outfit new food production and harvest spaces (including community gardens, Indigenous food lands, urban farms, greenhouses, and other models) on City-owned and private land and buildings. Through development in strategic locations such as large and unique sites, seek opportunities to deliver or sustain urban farms (indoor or outdoor models) and publicly accessible food production and harvest spaces.

→ RESPONSE

The proposal will contribute to increasing city and neighborhood food assets and supporting local and sustainable food systems as outlined in the Greenest City 2020 Action Plan and the Vancouver Food Strategy Refer to the sustainability chapter for a narrative detailing the team's proposed strategies for Sustainable Food Systems under this Policy.



Section 7.0

Sustainability

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7.1 Sustainability Strategies Summary





Vegetation and Biodiversity

- 35% vegetation cover will be made up of native and adaptive plant species.
- 26% Tree canopy cover will create a bird-friendly environment , offer shading of the public realm and connection to the greenway.
- Generous depths of growing medium for all plants supports the project's rainwater management plan improving the storm water retention and infiltration capabilities of the site.



Materials and Embodied Carbon

- Materials and construction practices are chosen based on low Global Warming Potential (GWP) profiles.
- Mechanical systems are selected for low refrigerants profiles, durability and leakage prevention.
- Low-emitting healthy building materials are selected for interior finishes.



Energy and Resilience

- Future climate scenarios have been considered and multidisciplinary strategies were identified during a resilience planning workshop.
- Preliminary energy modelling provides evidence that Green Building Policy energy targets for TEUI, TEDI and GHGI will be met.
- Mechanical systems are sized to support resilient design capable of withstanding 2050 temperature extremes and fluctuations due to Climate Change.



Water

- A 56% reduction in outdoor water use is realized through selection of indigenous and adaptive plant species capable of thriving in Vancouver's warming climate as well as integration of drip irrigation.
- A 28% reduction in indoor water use is realized through selection of efficient low-flow fixtures.



Transportation

- With access to exceptional active and public transport, the development has a walk score of 95, transit score of 86, and bike score of 94.
- Transit-oriented development located at SkyTrain's future Great Northern Way - Emily Carr Station.
- A first-class bike facility including showers, changing facilities, lockers and bike maintenance toolkits will be integrated, promoting active modes of transportation.
- 100% of residential parking and approximately 45% of nonresidential parking are EV ready with Level 02 charging.



Health and Wellbeing

- A preliminary WELL feasibility study for commercial and office space on site recommends a road map for targeting WELL v2 Gold Core certification.
- Occupants will have connections to nature through glazed facade ensuring visual connection to mountain views, accessible vegetated roof and podium terrace, and a centrally located open parks.



Food Assets

- Community gardens and shared learning gardens capable servicing the residential buildings will allow residents to garden year round.
- Edible planting, including berry bushes, herbs and fruit trees will be integrated into the landscape design.
- Education signage will be woven into the landscape and public realm design
- A publicly accessible year-round Community Food Market will be planned and will contribute to a vibrant public realm while offering a focal point for occupants to gather.



Community and Culture

- Lot 7 is designed as a cultural building hub. Exploration of a food and beverage facility and Indigenous gallery space are being explored to support a diverse range of cultural and education program goals for the site.
- Lot 7 roof will include a landscaped sweeping extension of the centrally located plaza where people can sit and enjoy a sense of community. The oval shape of the plaza encourages flexible use of space for gathering and outdoor activities.
- Integration of significant office and residential space revitalizes the neighborhood and local economy.
- A 94-space childcare facility on site will service occupants of the development and wider community.





7.2 Overview of City Goals

The City of Vancouver is widely recognized as one of the most livable cities in the world. As such, the City is committed to approving projects and developments that are sustainable and cost-effective. A number of policies, strategies and guidelines have been developed in order to align this commitment with Vancouver's objectives.

This project will adhere to the applicable general policies, as described on the following pages.



Greenest City - 2020 Action Plan

On November 17, 2020, Vancouver City Council approved the Climate Emergency Action Plan.

Vancouver City Council have targeted cutting carbon pollution in half by 2030, and to be carbon neutral before 2050. This plan builds on previous climate plans and focuses on cutting carbon pollution from the biggest local sources - burning fossil fuels in vehicles (37%) and in our buildings (57%).

By 2030, the City of Vancouver aims to achieve the following goals:

- 1. How we Move
- 90% of people living within an easy walk or roll of their daily needs
- Two-thirds of trips in Vancouver to be by active transit
- 2. How we Build and Renovate
- Cutting carbon pollution from buildings in half, compared to 2007
- 40% less embodied emissions from new buildings and construction projects compared to 2018
- 3. How we capture Carbon

In 2021, the City will establish a target for how much carbon Vancouver will capture. The following paths are being investigated:

· Land-based carbon capture: reforestation, improved forest management or forest protection, improved farming practices, composting, and soil enhancement techniques.

- Ocean/aquatic carbon capture: coastal and freshwater wetland restoration, management or protection
- → RESPONSE
- 1. How we Move

The Central Valley Greenway runs through the development, and the site includes the future SkyTrain's Great Northern Way- Emily Carr Station as part of the Broadway Line extension. The site has been designed to accommodate and promote active and public modes of transit and will include a first-class bike and maintenance facility.

2. How we Build and Renovate

The project underwent early sensitivity studies using energy model simulation focused on reducing operational energy and greenhouse gas intensity.

A whole building Life Cycle Assessement has been performed for every building on site. This will serve as a baseline and be used to reduce embodied carbon during subsequent design phases.

3. How we capture Carbon

The site will be transformed into a biodiverse green environment. In alignment with the Rezoning Policy for Sustainable Large Developments, 35% vegetation cover and 26% tree canopy cover will contribute to the biodiversity on site.



Neighbourhood Energy Strategy

In order to achieve the goals of the City of Vancouver's Greenest City 2020 Action Plan a neighbourhood energy strategy is encouraged.

Neighbourhood renewable energy systems supply centralized heating and hot water for multiple buildings. These systems use low-carbon renewable energy sources reducing the use of fossil fuels. They eliminate the need for boilers in individual buildings, and provide environmentally friendly, affordable heat and hot water.

→ RESPONSE

The project is located within the Broadway Plan Neighbourhood Energy Utility Service Boundary. The team will work with the City of Vancouver to determine if the project can utilise this facility to provide the majority of on site energy needs



Rain City Strategy (2019)

This initiative focuses on rainwater infrastructure and management and aims to improve and protect Vancouver's water quality, increase Vancouver's resilience through sustainable water management, and enhance Vancouver's livability by improving natural and urban ecosystems.

→ RESPONSE

Rainwater management prioritizes low impact development vegetation cover capable of retaining water on sites through evapotranspiration and infiltration.



Renewable City Strategy (2015)

The Renewable City Strategy establishes two targets for all of Vancouver:

- Derive 100% energy used in Vancouver from renewable sources before 2050
- Reduce Greenhouse Gas emissions by at least 80% below 2007 levels before 2050

The strategies to achieve these goals by 2050 include reducing demand, increasing the use of renewable energy and expanding the supply of renewable energy sources. The goals of the Renewable City Strategy guide the goals set in the Green Buildings Policy for Re-zonings. The Renewable City Strategy also calls for the expansion of existing neighbourhood Renewable Energy Systems and the development of new renewable energy systems.

→ RESPONSE

A high-performance building envelope and efficient systems will mitigate excessive greenhouse gas emissions associated with building operations.



Healthy City Strategy (2015)

This document aims to address the needs of Vancouver's inhabitants. Organized into three themes: Healthy People, Healthy Communities and Healthy Environments with targets that ensure people have access to housing, services, transit, food, culture and green space.

→ RESPONSE

The project provides approximately 433,178 sq.ft (40, 243 sq.m) of secured rental housing totaling 548 units.

An on-site childcare facility for 94 children and extensive outdoor space dedicated to a playground will be provided on site.

Lot 7 is designed as a cultural hub and includes a landscaped sweeping extension of the centrally located public plaza. The public realm has been designed to ensure a commitment to healthy communities.



Transportation 2040 (2012)

Transportation 2040 is aligned with the Greenest City 2020 Action Plan. The three primary goals of the document are connected to Economy, People, and Environment. With a goal of hitting two thirds of all trips on foot, bike, or transit by 2040.

100% of residential parking and approximately 45% of non-residential parking will be EV ready with Level 02 charging. Two-way car membership will be offered to residents of each Strata unit free of charge and will be in force for 20 years. The parking strategy combined with a first-class bike parking and maintenance facility prioritizes walking and cycling to and from the site.

→ RESPONSE

100% of residential parking and approximately 45% of non-residential parking will be EV ready with Level 02 charging. The parking strategy combined with a first-class bike parking and maintenance facility prioritizes walking and cycling to and from the site.







Urban Forest Strategy (2018)

The Urban Forest Strategy provides direction to protect, plant, and manage trees to create a diverse, resilient, and beautiful urban forest on public and private lands across the city.

→ RESPONSE

The project will provide approximately 26% tree canopy cover made up of native and adaptive plant species. Generous depth of growing medium and contiguous planting will serve to enhance the urban forest and improve stormwater retention.



Biodiversity Strategy (2016)

The biodiversity strategy contains objectives and targets to increase biodiversity across Vancouver and access to nature for the City's inhabitants. Objectives include the restoration of habitats and species, to protect and enhance biodiversity during development, increase community engagement, and monitor biodiversity to track change and measure success.

→ RESPONSE

Currently, the site does not have any high value ecosystems present. The project will provide a biodiverse planting environment. Native and adaptive plant species will be selected to support local ecology and a healthy habitat.



Vancouver Economic Action Strategy (2011)

The Vancouver Economic Strategy presents a city-wide vision for Economic development in Vancouver. Tactics include working with local planners and organizations to generate strategies in order to secure the required space for a growing work force that also align with local neighbourhoods. Complete neighbourhoods where people can live and work and which reduce automobile dependency are to be encouraged.

→RESPONSE

Significant residential and office space will bring people into neighborhood, revitalizing spending, and the economy. Retail, the cultural hub and public realm add culture and entertainment to the local neighborhood.



Vancouver Bird Strategy (2015)

The City of Vancouver Bird Strategy does demand action, but it is a guideline with recommendations for building and landscape design. Bird friendly landscape design that incorporates native species of varying sizes and layers, minimizing human disturbance and reduce light pollution and increase visibility of glass.

→ RESPONSE

Providing 35% extensive vegetation cover made up of tree canopy, native and adaptive plant species will enhance the urban forest creating a bird-friendly urban environment and greenway connection.

7.3 Green Building Policy for Rezoning









In order to decrease the energy demands and carbon footprint of Vancouver's building stock and design resilient adaptive infrastructure the city has implemented and updated the Green Building Policy for Rezoning.

A summary of the requirements of the Green Building Policy for Rezoning last amended June 2023 is summarized below.

1. Reporting of Green and Resilient Building Measures

Energy and Emissions Performance Limits

All buildings shall meet or exceed the performance limits according to their building type and whether or not they are connected to a City-recognized Low Carbon Energy System:

Total Energy Utilization Intensity (TEUI) (kWh/ m²/ year);

Thermal Energy Demand Intensity (TEDI) (kWh/m²/year); and

Greenhouse Gas Intensity (GHGI) (kg CO₂/ m²/ year)

Embodied Carbon Limits

All buildings shall meet or exceed embodied carbon reduction targets according to building type, height and materiality as compared to a concrete baseline building.

This will be demonstrated through completion of a Life Cycle Assessment and Embodied Carbon reported out for each building in kg CO_2/m^2 for a 60-year design life.

Resilient Buildings Planning Worksheet

To better position the city to deal with significant shocks and stresses, particularly: earthquakes, extreme weather, extreme temperatures, sea level rise; and to assist in improving disaster preparedness and social connection. To meet the objectives of the Climate Change Adaptation Strategy, including the objective to increase resilience of the built environment to future climate conditions.

AND

3. Enhanced Commissioning

Complete an enhanced commissioning process for all building energy systems in accordance with CSA or ASHRAE guidelines or an alternate acceptable commissioning standard.

AND

4. Energy System Sub-Metering

Provide separate master metering for each energy utility as well as sub-metering of all major enduses and major spaces uses within each building.

Create an Energy Star Portfolio Manager account for each building.

→RESPONSE: The proposal encompassing three buildings, providing 877,427 sq.ft (81,515 sq.m) of mixed use development including office space, ground activating retail, 548 secured rental housing units and a 94-space childcare facility.

Refer to Green Policy for Rezonings Report and supporting documentation for a detailed summary of the inter disciplinary strategies employed by the project to meet the requirements of the Policy.





7.4 Rezoning Policy for Sustainable Large Developments

In order to continue to ensure large development projects provide leading practices and advance the Vancouver's sustainability goals, the city has implemented and updated a policy for developments with a land parcel or parcels having a total site size of 8,000 m² (1.98 acres) or more, or containing 45,000 m² (484,375 ft²) or more of new development floor area.

A summary of the requirements of the Sustainable Large Development Policy last amended October 2023 is summarized below.

A. Sustainable Site Design

The proposal must contribute to meeting the City's Greenest City 2020 Action Plan targets of improving access to nature and planting trees. The proposal must also contribute to meeting the Urban Forest Strategy, Biodiversity Strategy and Rain City Strategy objectives.

B. Sustainable Food Systems

The proposal will contribute to increasing city and neighborhood food assets and supporting local and sustainable food systems as outlined in the Greenest City 2020 Action Plan and the Vancouver Food Strategy.

C. Green Mobility

The proposal will contribute to meeting the following citywide goals:

- Transportation 2040 and Greenest City targets of having walking, cycling, and public transit trips make up at least 66% of all trips by 2040 and to reduce motor vehicle kilometer traveled per resident by 20% from 2007 levels.
- Greenest City target to reduce community-based greenhouse gas emissions by 33% by 2020 levels and the Renewable City target to reduce greenhouse gas emissions 80% below 2007 levels before 2050.
- Greenest City Clean Air target to always meet or beat the most stringent air quality guidelines.

D. Potable Water Management

The proposal will contribute to the Greenest City goals of reducing potable water use by 33% from 2006 levels and meeting stringent water quality standards.

E. Groundwater Management

The proposal should contribute to preserving sewer capacity, reduce the risk of combined sewer overflows and maintain wastewater treatment effectiveness through the prohibition of groundwater flows entering the sewer system in alignment with the Metro Vancouver 2010 Integrated Liquid Waste and Resource Management Plan.

F. Zero Waste Planning

The proposal will contribute to the City's Greenest City target on Zero Waste and the objectives set out in the City's Zero Waste 2040 strategic plan with respect to waste avoidance, reduction, increased opportunities for material re-use and recycling, and reduced greenhouse gas emissions, and the overall goal of eliminating Vancouver waste disposed to landfill and incinerator by 2040.

G. Resilience

To better position the city to deal with significant shocks and stresses, particularly: earthquakes, extreme weather, extreme temperatures, sea level rise; and to assist in improving disaster preparedness and social connection. To meet the objectives of the Climate Change Adaptation Strategy, including the objective to increase resilience of the built environment to future climate conditions.

→RESPONSE: The proposal includes approximately 86,500 m² (930,000 ft²) of new floor area and falls under site type A: master planned projects subject to one rezoning application containing at least one substantial, contiguous park.

Refer to Rezoning Policy for Sustainable Large
Developments Report and supporting documentation
for a detailed summary of the inter disciplinary
strategies employed by the project to meet the
requirements of the Policy.

7.5 Third Party Certification Feasibility Studies

7.5.1 Rating System Overview

The Great Northern Way Lot 6-8 development was assessed against the following two third party green building rating systems: :

- · LEED v4 BD+C Core and Shell
- WELL v2 Core

The following pages summarize the findings from each of the feasibility studies. Further study will be conducted as the project evolves and is further developed beyond the Rezoning phase.







7.6 LEED Feasibility Study

LEED v4 BD+C Core and Shell certification was explored for Great Northern Way Lot 6-8. Based on the project's program areas, the team performed two preliminary feasibility studies for LEED v4 BD+C: Core and Shell (CS) certification to determine opportunities for the office and commercial spaces in the Lots 6-8N podium (phase 1) and the Lot 8S office and commercial space (phase 2). The preliminary assessments indicate LEED-CS Gold is achievable for each phase. The project team will develop specific credit strategies as the design progresses and the project will be registered with US Green Building Council.

Phase 1 and Phase 2 are currently targeting 66 points and the project scorecards, will be updated ad the design progresses in subsequent design phases. .

Key strategies that support the LEED Gold objective include:

1. Location and Transport

The project has reduced parking footprint and 45% of parking stalls for non-dwelling uses will be EV ready. The development is located on a previously developed land in the Strathcona neighborhood which has a walk score of 95, transit score of 86, and bike score of 94. These scores combined with a first-class bike hub and new sky train station on site enable the development to target 17 points in the location and transport category.

2. Sustainable Sites

LEED Open Space and Light Pollution Reduction requirements will be met. 35% of the site is covered by vegetation and tree canopies and green roofs will be incorporated in the design. Adaptive and native plant species capable of growing year-round have been selected to reduce the heat island effect, which is a significant consideration in an urban environment. Additionally, 100% of the parking spaces are below grade and the landscaping strategy will explore the use of high albedo or open grid pavement. The 85th

percentile of rainwater will be captured. Tenant Design and Construction Guideline will be provided to all occupants to educate and encourage sustainable interior fit-out.

3. Water Efficiency

In alignment with the Sustainable Large Development Policy, the design achieves a 56% reduction in outdoor water use through the means of a drip irrigation system. The design will aim to achieve a 30% reduction in indoor water use through careful selection of fixtures and fittings. Cooling tower water use will be optimized. Finally, the Water Metering Credit is targeted to ensure the designed water use reductions are met during building operation.

4. Energy and Atmosphere

The Advanced Energy Metering and Enhanced Commissioning Credits are targeted to ensure the designed energy optimizations are met during building operation. The project aims to achieve 12 of the 18 Optimize Energy Performance points which means 26% improvements in energy performance. Besides, enhanced refrigerant management credit is also targeted by incorporating central cooling system.

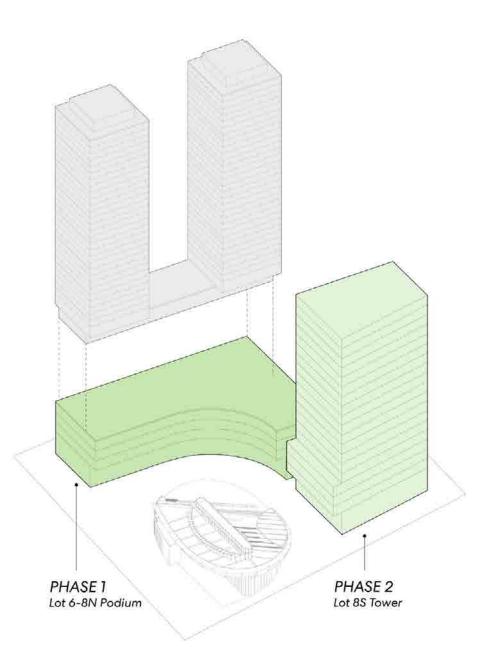
5. Materials and Resources

Every credit within the Materials and Resources category is being targeted providing a holistic and well-rounded approach to material specification and design. The design focuses on tracking and sourcing materials that prioritize disclosure and optimization. The design targets LEED credit Construction and Demolition Waste Management, reducing waste to landfill and going beyond the prerequisite targets.

6. Indoor Environmental Quality

Enhanced Indoor Air Quality Strategies are targeted with MERV 13 filtration required at the base building level. Construction Indoor Air Quality Management

Plan is targeted, ensuring safe and optimized indoor air quality at all phases of building construction and occupancy. Finally, the design focuses on tracking and sourcing materials that prioritize human health through selection of transparent and verified products for low emitting material requirements.





LEED v4 for BD+C: Core and Shell

Project Checklist

Credit Integrative Process

17	2	21	Locat	ion and Transportation	20
		20	Credit	LEED for Neighborhood Development Location	20
2			Credit	Sensitive Land Protection	2
	2	Ŧ	Credit	High Priority Site- v4.1 Substitution	3
6			Credit	Surrounding Density and Diverse Uses- v4.1 Substitution	6
ó			Credit	Access to Quality Transit- v4.1 Substitution	6
T			Credit	Bicycle Facilities- v4.1 Substitution	113
1			Credit	Reduced Parking Footprint- v4.1 Substitution	13
1			Credit	Green Vehicles- v4.1 Substitution	1

9	1	1	Sustainable Sites	11
Y			Prereq Construction Activity Pollution Prevention	Required
ï			Credit Site Assessment	710
2			Credit Site Development - Protect or Restore Habitat - v4.1 Substitution	2
1			Credit Open Space- v4.1 Substitution	1
2		1)	Credit Rainwater Management- v4.1 Substitution	3
1	1		Credit Heat Island Reduction	2
Y			Credit Light Pollution Reduction	1
1			Credit Tenant Design and Construction Guidelines	1

5	4	2	Water	Efficiency	11
Υ			Prereq	Outdoor Water Use Reduction	Required
Υ			Prereq	Indoor Water Use Reduction	Required
Υ			Prereq	Building-Level Water Metering	Required
1	T.		Credit	Outdoor Water Use Reduction	2
2	2	2	Credit	Indoor Water Use Reduction	6
1	1		Credit	Optimize Process Water Use- v4.1 Substitution	2
1.			Credit	Water Metering	1.

17 Y	12 4		Energ	gy and Atmosphere	33		
						Prereq	Fundamental Commissioning and Verification
Υ	1		Prereq	Minimum Energy Performance	Required		
Υ			Prereq	Building-Level Energy Metering	Required		
Y.			Prereq	Fundamental Refrigerant Management	Required		
3	3		Credit	Enhanced Commissioning	6		
12	6		Credit	Optimize Energy Performance	18		
1			Credit	Advanced Energy Metering	T		
		2	Credit	Demand Response	2		
	1	2	Credit	Renewable Energy Production	3		
1			Credit	Enhanced Refrigerant Management	1		
	2		Credit	Green Power and Carbon Offsets	2		

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5	6	3	Mate	rials and Resources	14
Υ			Prereq	Storage and Collection of Recyclables	Required
Υ			Prered	Construction and Demolition Waste Management Planning	Required
1	2	3	Credit	Building Life-Cycle Impact Reduction- v4.1 Substitution	6
1	1		Credit	Environmental ProductDeclarations- v4.1 Substitution	2
1	1		Credit	Sourcing of Raw Materials- v4.1 Substitution	2
1	1		Credit	Material Ingredients- v4.1 Substitution	2
1	1		Credit	Construction and Demolition Waste Management	2

4 Y	5	1	Indoo	r Environmental Quality	10	
		Prereq	Minimum Indoor Air Quality Performance	Required		
Υ			Prereq	Environmental Tobacco Smoke Control	Required	
1	1		Credit	Enhanced Indoor Air Quality Strategies	2	
2	1		Credit	Low-Emitting Materials- v4.1 Substitution	3	
1			Credit	Construction Indoor Air Quality Management Plan	1	
	2	1	Credit	Daylight	3	
	1		Credit	Quality Views	Ĩ	

5 1		Innovation	6
4 1	1	Credit Innovation	5
1		Credit LEED Accredited Professional	1
3 1		Regional Priority	4
3 1		Regional Priority Credit: Regional Priority: Optimize Energy Performance Credit (Threshold 10)	4
3 1		Control of the Contro	1

1 Credit Regional Priority: Rainwater Management Credit (Threshold 2)

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points. Platinum: 80 to 110

Preliminary LEED Scorecard





7.7 WELL Feasibility Study

WELL v2 Core certification was explored for Great Northern Way Lot 6-8. The team has performed two preliminary feasibility studies for WELL v2 Core certification to determine opportunities for the office and commercial spaces in the Lots 6-8N podium (phase 1) and the Lot 8S office and commercial space (phase 2). The preliminary assessments indicate a Gold level of certification is achievable for each phase.

The project is currently targeting 66.5 points and will develop specific optimization strategies as the design progresses. The project will register with the International WELL Building Institute during the next phase of design.

Key strategies that support the WELL Gold objective include:

1. Air

High levels of indoor air quality will be achieved across the buildings lifetime through the design of ventilation systems to provide increased air supply and MERV-13 filtration. Building entryways will be designed to reduce transmission of pollutants from outdoor to indoor locations. The development will eliminate combustion through mechanical system's electrification.

2. Water

Readily available and maintained dispensers for drinking water will be provided to improve drinking water access and human health.

Damage to building materials will be prevented through an envelope designed for moisture protection and a mold and moisture management plan.

3. Nourishment

Proximity to supermarkets with fresh fruit and vegetables and farmers markets serves to improve the nutritional health of building occupants.

4. Light

Daylight simulations will be performed to improve access to daylight. Management of glare and flicker as well as designing lighting for enhanced color rendering quality will promote mental, biological and physical health.

5. Movement

Physical activity is promoted through the provision of a first-class bike facility which includes short and long term bike parking for all the buildings on site as well as showers and a bike maintenance facility. The Central Valley Greenway and future GNW-EC station run through the site providing access to mass and active transit.

6. Thermal Comfort

Comfort of building users is achieved by monitoring the thermal environment for temperature and relative humidity in order to promote human productivity.

Outdoor heat and relative humidity will be managed to maintain optimum levels conducive of human health and wellbeing.

7. Sound

Acoustic comfort parameters will be considered to ensure the project limits background noise and designs for sound isolation . This will improve occupant experience within the space.

8. Materials

In alignment with LEED low-emitting material criteria, Volatile Organic Compounds in all wet applied products will be restricted to regulatory levels, minimizing human exposure to harmful chemicals. Interior products with transparency documentation will be prioritized to further limit human exposure to harmful substances.

9. Mind

Occupants will have connections to nature through accessible vegetated roof and podium terrace, atria supporting interconnectivity and centrally located open parks and plazas. These strategies aim to positively impact cognitive function and emotional well-being

10. Community

An emergency preparedness plan and a healthoriented mission will be established to promote occupants's health and safety. The project aims to promote community engagement through outdoor and indoor community spaces.

PHASE 1 PHASE 2 Lot 8S Tower Lot 6-8N Podium

THE WELL BUILDING STANDARDTM

Project Name: Great Northern Way-Lot 6,7,8
Enrollment Type: WELL Core Certification

Applicable Versic v2, Q4 2023

Date: February 7, 2024

SUMMAR
Y ?
66.5 84

Bronze: 40-50 Silver: 50-60 Gold: 60-80 Platinum: 80+

AIR					II POIN
4	1	86	Mongre	n	Fint Name
(X)			Required	A01.1	Meet Thresholds for Particulate Matter
Y			Required	A01.2	Meet Thresholds for Organic Gases
Y			Required	A01.3	Meet Thresholds for Inorganic Gases
4			Required	A01.4	Meet Thresholds for Radon
Y			Required	AQ1.5	Monitor Air Parameters
W.			Required	A02.1	Prohibit Indoor Smoking
Y			Required	A02.2	Prohibit Outdoor Smoking
Y			Required	A03.1	Ensure Adequate Ventilation
(XX)			Required	A04.1	Mitigate Construction Pollution
	2		2 Points	A05.1	Meet Enhanced Thresholds for Particulate Matter
	1		1 Points	A05.2	Meet Enhanced Thresholds for Organic Gases
	1		1 Points	A05.3	Meet Enhanced Thresholds for Inorganic Gases
2		Ť	3 Points	A06.1	Increase Outdoor Air Supply
		2	2 Points	A06.2	Improve Ventilation Effectiveness
	1		2 Points	A07.1	Provide Operable Windows
		2	2 Points	A07.2	Manage Window Use
0.5			0.5 Points	A08.1	Install Indoor Air Monitors
	1		1 Points	A08.2	Promote Air Quality Awareness
2			2 Points	A09.1	Doelgn Healthy Entryways
2			2 Points	A09.2	Perform Envelope Commissioning
2			2 Points	A10.1	Manage Combustion
0.5			0,5 Points	A11.1	Manage Pollution and Exhaust
2			2 Points	A12.1	Implement Particle Filtration
	2		2 Points	A13.1	Improve Supply Air
					and a second sec

۷AT	TER				o POINTS
¥2.	- 31	N	Wittel	100	Pair Name
Y			Required	W01.1	Verify Water Quality Indicators
Y			Required	W02.1	Meet Chemical Thresholds
X.			Required	W02.2	Meet Thresholds for Organics and Pesticides
Y.			Required	W03.1	Monitor Chemical and Biological Water Quality
Y			Required	W03.2	Implement Legionella Management Plan
	2		2 Points	W04.1	Meet Thresholds for Drinking Water Taste
		2	2 Points	W05.1	Assess and Maintain Drinking Water Quality
		1	1 Points	W05.2	Promote Drinking Water Transparency
1			1 Points	W05.1	Ensure Drinking Water Access
2			2 Points	W07.1	Design Envelope for Moisture Protection
	2		2 Points	W07.2	Design Interiors for Moisture Management
2			2 Points	W07.3	Implement Mold and Moisture Management Plan
		.1	1 Points	W08.1	Provide Bathroom Accommodations
		1	1 Pointe	W08.2	Enhance Bathroom Accommodations
ť.			1 Points	W08.3	Support Effective Handwashing
		1	1 Points	W08.4	Provide Handwashing Supplies and Signage
	2		2 Points	W098.1	Implement Safety Plan for Non-Potable Water Capture and Reuse

2 2 Points A14.1 Implement Ultraviolet Air Treatment

101	URIS	HME	NT.			2 PO
Y.	T	N	Wheem	102	Part Nome	
Y.,			Required	NOL	Provide Fruits and Vegetables	
Y			Required	NOL2	Promote Fruit and Vegetable Visibility	
4			Required	NO2.1	Provide Nutritional Information	
Y			Required	NO2.2	Address Food Allergens	
Y			Required	NO2.3	Label Sugar Content	
	1		1 Points	N031	Limit Total Sugars	
	1		1 Points	NO3.2	Promote Whole Grains	
		1.	1 Points	NO4.1	Optimize Food Advertising	
	1		1 Points	NO5.1	Limit Artificial Ingredients	
	1.		Points	NO6.1	Promote Healthy Portions	
		1	1 Points	NO7.1	Provide Nutrition Education	
		1	1 Points	NO8.1	Support Mindful Eating	
	1		1 Points	N09.1	Accommodate Special Diets	
		1	1 Points	N09.2	Label Food Allergens And Intelerances	
		0.5	0.5 Points	N10.1	Provide Meul Support	
	1		1 Points	NIL1	Implement Responsible Sourcing	

G-(HPONT
3	1	100	Weight	100	Prof Mirms	
0			Required	LO1.1	Provide Indoor Light	
Y			Required	L02,1	Provide Visual Acuity	
	2	2	4 Points	L03.1	Meet Lighting for Day-Active People	
1			Points	L04.1	Manage Glare from Electric Lighting	
3			3 Points	105.1	Implement Daylight Plan	
2		1	3 Points	L05.2	Integrate Solar Shading	
2		1	3 Points	1.06.1	Conduct Daylight Simulation	
0.5			0.5 Points	L07.1	Balance Visual Lighting	
0.5			0.5 Points	L08.1	Enhance Color Rendering Quality	
1			1 Points	108.2	Manage Flicker	
1			1Points	L09.1	Enhance Occupant Controllability	
		0.5	0.5 Points	109.2	Provide Supplemental Lighting	

		ΔI			
9		(M)	Whight	/101	Rawbama
N			Required	V01.1	Design Active Buildings and Communities
Y			Required	V02.1	Support Visual Ergonomics
Ÿ.			Required	V02.2	Provide Height-Adjustable Work Surfaces
Y			Required	V02.3	Provide Chair Adjustability
٧			Required	V02.4	Provide Support at Standing Workstations
Y			Required	V02.5	Provide Workstation Orientation
		2	2 Points	V03.1	Design Aesthetic Staircases
2			2 Points	V03.2	Integrate Point-of-Decision Signage
		2	2 Points	V03.3	Promote Visible Stairs
2	1		3 Points	V04.1	Provide Cycling Infrastructure
2			2 Points	V04.2	Provide Showers, Lockers and Changing Facilities
3			3 Points	V05.1	Select Sites with Pedestrian-friendly Streets
3			3 Points	V05.2	Select Sites with Access to Mass Transit
		1	Points	V06.1	Offer Physical Activity Opportunities
		1	1 Points	V07.1	Provide Active Workstations
	0.5		0.5 Points	V08.1	Provide Indoor Activity Spaces
2			2 Points	V08.2	Provide Outdoor Physical Activity Space
		1	0.5 Points	V09.1	Offer Physical Activity Incentives
		1	0.5 Pointe	V10.1	Provide Self-Monitoring Tools
		- 10	Points	VIIB.I	Implement an Ergonomics Program
		1	1 Points	Vns.2	Commit to Ergonomic Improvements
		1	Points	VII3.3	Support Remote Work Ergonomics

		- 7.	TAMES IN	(197)	- III (JYW) IV
35			Required	TO1.1	Provide Acceptable Thermal Environment
28			Required	TO1.2	Measure Thermal Parameters
	3		3 Points	T02.1	Survey for Thermal Comfort
	2	1	3 Points	T03.1	Provide Thermostat Control
		1	0.5 Points	T04.1	Provide Personal Cooling Options
		1	0.5 Points	T04.2	Provide Personal Heating Options
		1	0.5 Points	T04.3	Allow Flexible Dress Code
		2	2 Points	T05.1	Implement Radiant Heating
		2	2 Points	T05.2	Implement Radiant Cooling
0.5			0.5 Points	T06.1	Monitor Thermal Environment
2			2 Points	T07.1	Manage Relative Humidity
	2		2 Points	T088.1	Provide Windows with Multiple Opening Modes
2			2 Points	T098.1	Manage Outdoor Heat
	2		2 Points	T098.2	Avoid Excessive Wind
	2		2 Points	T098.3	Support Outdoor Nature Access

CU	ND_					2.6 POINTS
7	90	84	Weegin	n	Print Minne	
Y			Required	501.1	Label Acoustic Zones	
ЖŰ			Required	501.2	Provide Acoustic Design Plan	
0.5	1		1.5 Points	S02.1	Limit Background Noise Levels	
1			Points	503.1	Design for Sound Isolation at Walls and Doors	
	2		2 Points	503.2	Achieve Sound Isolation at Walls	
4.			1 Points	304.1	Achieve Reverberation Time Thresholds	
		1	Points	505.1	Implement Sound Reducing Surfaces	
	2		2 Points	506.1	Provide Minimum Background Sound	
	2		2 Points	506.2	Provide Enhanced Speech Reduction	
	2		2 Points	S078.1	Specify Impact Noise Reducing Flooring	
	3		3 Points	\$076.2	Meet Thresholds for Impact Noise Rating	
		0.5	0.5 Points	S08B.1	Provide Enhanced Speech Intelligibility	
		0.5	0.5 Points	S08B.2	Prioritize Audio Devices and Policies	
		0.5	0.5 Points	5093.1	Implement a Hearing Health Conservation Program	

ΑΛī	FR1/	11.8			IN POTIV
Υ-	2.	19	Weight	1D	Part Nomi.
Υ			Roquired	X01.1	Restrict Asbestos
Y			Required	X01.2	Restrict Mercury
Υ			Required	X01.3	Restrict Lead
Υ			Required	X02.1	Manage Asbestos Hazards
Υ			Required	X02.2	Manage Lead Paint Hazards
Y			Required	X023	Manage Polychlorinated Biphenyl (PCB) Hazards
Y			Required	X03.1	Manage Exterior CCA Hazards
Υ			Required	X03.2	Manage Lead Hazards
	2		2 Points	X04.1	Assess and Mitigate Site Hazards
		1	Points	X05.1	Select Compliant Interior Furnishings
	1		1 Points	X05.2	Select Compliant Architectural and Interior Products
2	- 1		2 Points	X06.1	Limit VOCs from Wet-Applied Products
	1	1	2 Points	X06.2	Restrict VOC Emissions from Furniture, Architectural and Interior Products
1			Points	X07.1	Select Products with Disclosed Ingredients
	Ţ.		1 Points	X07.2	Select Products with Enhanced Ingredient Disclosure
1			Points	X07.3	Select Products with Third-Party Verified Ingredients
		1	1 Points	X08.1	Select Materials with Enhanced Chemical Restrictions
	- 1		Points:	X08.2	Select Optimized Products
	2		2 Points	X09.1	Implement a Waste Management Plan
2			2 Points	X10.1	Manage Pests
		0.5	0.5 Points	X11.1	Improve Cleaning Practices
	10		0.5 Points	X11.2	Select Preferred Cleaning Products
		.15	Points	X126.1	Reduce Respiratory Particle Exposure
=	7		Points	X126.2	Address Surface Hand Touch

MIN						2
17	7	10	Walgos	10	Par Name	
X			Required	M01.1	Promote Mental Health and Well-being	
Y.			Required	M02.1	Provide Connection to Nature	
8			Required	M02.2	Provide Connection to Place	
		0.5	0.5 Points	M03.1	Offer Mental Health Screening	
		0.5	0.5 Points	M03.2	Offer Mental Health Services	
		0.5	0.5 Points	M03,3	Offer Workplace Support	
		0.5	0.5 Points	M03.4	ß Support Mental Health Recovery	
		0.5	0.5 Points	M04.1	Offer Mental Health Education	
		0.5	0.5 Points	M04.2	Offer Mental Health Education for Managers	
		1	1 Points	M05.1	Develop Stress Management Plan	
		0.5	0.5 Points	M06.1	Support Healthy Working Hours	
		0.5	0.5 Points	M06.2	Provide Nap Policy and Space	
	2		2 Points	M07.1	Provide Restorative Space	
		0.5	0.5 Points	M08.1	Provide Restorative Programming	
		2	2 Points	M09.1	Provide Nature Access Indoors	
2			2 Points	M09.2	Provide Nature Access Outdoors	
		1	1 Points	M10.1	Provide Tobacco Cessation Resources	
	1		1 Points	M10.2	Limit Tobacco Availability	
		0.5	0.5 Points	MII.1	Offer Substance Use Education	
		0.5	0.5 Points	M11.2	Provide Substance Use and Addiction Services	

COMMUNITY 0.5 POINTS							
Ÿ	1	16	Weige	in l	Friend Martine		
N			Required	CO1.1	Provide WELL Feature Guide		
Y			Required	C02.1	Facilitate Stakeholder Charrette		
Y			Required	CO2.2	Promote Health-Oriented Mission		
Y			Required	CO3.1	Develop Emergency Preparedness Plan		
Ý.			Required	CO4.1	Select Project Survey		
Y			Required	CO4.2	Administer Survey and Report Results		
	0.5		0.5 Points	CO5.1	Utilize Enhanced Survey		
		0.5	0.5 Points	C05.2	Utilize Pre- and Post-Occupancy Survey		
	0.5		0.5 Points	CQ5.3	Implement Action Plan		
		0.5	0,5 Points	C05.4	Facilitate Interviews, Focus Groups and/or Observation		
		0.5	0.6 Points	CO6.1	Promote Health Benefits		
		0.5	0.5 Points	CO6.2	Offer On-Demand Health Services		
		0.5	0.5 Points	CO6.3	Offer Sick Leave		
		0.5	0,5 Points	C06.4	Support Community Immunity		
		0.5	0.5 Points	C06.5	ß Provide Enhanced Health Benefits		
		0.5	0.5 Points	CO7.1	Promote Culture of Health		
		0.5	0.5 Points	CO7.2	Establish Health Promotion Leader		
		1.5	1.5 Points	C08.1	Offer New Parent Leave		
		0.6	0.6 Points	C09.1	Offer Workplace Breastfeeding Support		
	D.		Points	CO9.2	Design Lactation Room		
		0.5	0.5 Points	C10.1	Offer Childcare Support		
		0.5	0.5 Points	C10.2	Offer Family Leave		
		0.5	0.5 Points	C10.3	Offer Bereavement Support		
15			0.5 Points	Cn.i	Promote Community Engagement		
	10		i Points	CIL2	Provide Community Space		
	1		1 Points	C12.1	Create DEI Assessment And Action Plan		
	1		1 Points	C12.2	Implement DEI Support Systems		
	Т		Points	C12.3	Implement DEI Hiring Practices And Wage Equity		
	3		3 Points	C13.1	Integrate Universal Design		
	2		2 Points	C14.1	Promote Emergency Resources		
		2	2 Points	C14.2	Provide Opioid Response Kit and Training		
		1	1 Points	C158.1	Promote Business Continuity		
	1:		1 Points	C158.2	Support Emergancy Resilience		
	-0	1	1 Points	C158.3	Facilitate Healthy Re-entry		
	1		1 Points	C158.4	Establish Health Entry Requirements		
		2	2 Points	CISB.1	B Housing Equity		
		3	1 Points	CI78.1	Disclose Labor Practices		
		2	2 Points	CI/B.2	Implement Responsible Labor Practices		
		1	i Points	CIBB.1	Support Victims of Domestic Violence		
	10	-	Points	CIPBI	Support Victims of Domestic Violence		
-	1.		1 Points	C208.1	Support Victims of Domestic Violence		

NN	OVAT	ION				7 POINTS
Y	95	N	Weight	(D)	Part Name	
	10		10 Points	101	Propose Innovations	
1			1 Points	102.1	Achieve WELL AP	
	1:		1 Points	103.1	Offer WELL Educational Tours	
1			1 Points	104.1	Complete Health and Well-Being Programs	
5			5 Points	105.1	Achieve Green Building Certification	
		2	2 Points	106B.1	Carbon Inventory	
		3	3 Points	106B.2	Carbon Reduction Goal	
		3	3 Points	1066.3	Carbon Reduction	
		2	2 Points	106B.4	Carbon Neutral	

Preliminary WELL Scorecard

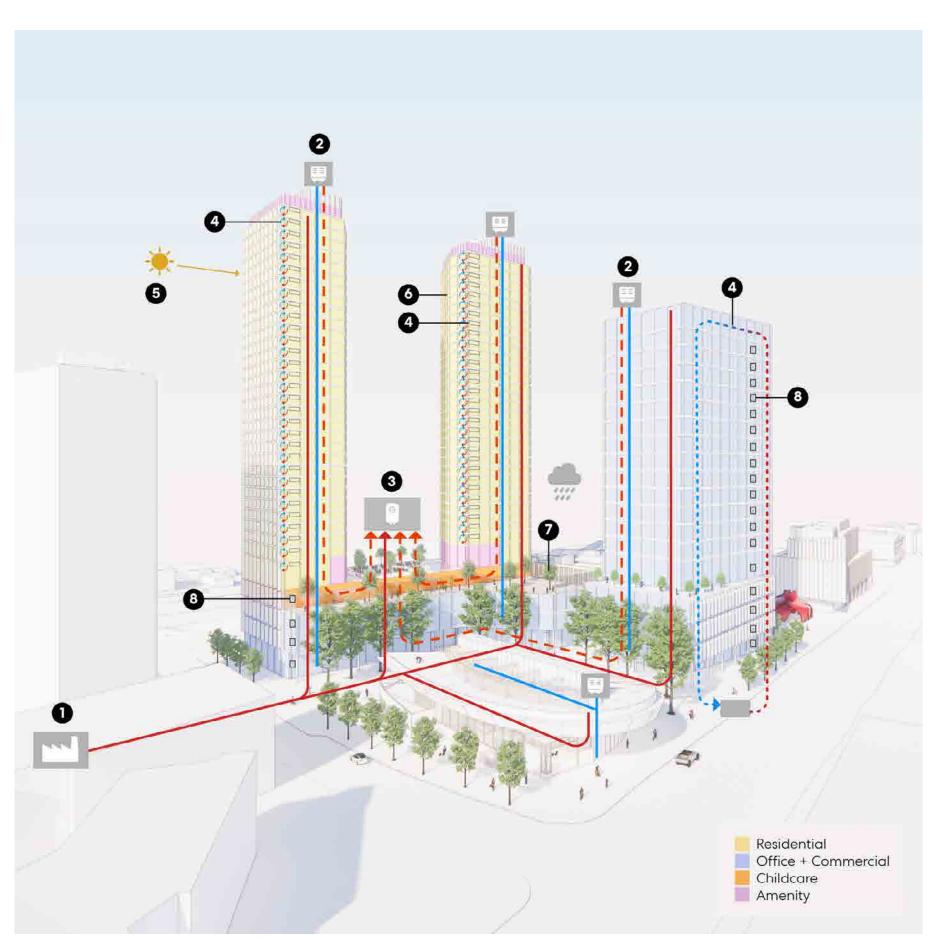




7.8 Systems Thinking

The project uses both active and passive strategies to meet holistic sustainability and energy use targets as outlined below:

- 1. Neighborhood Energy Utility (NEU) provide heating.
- 2. Efficient heat recovery air cooled chillers provide cooling.
- 3. Preheated by heat recovery chiller and boosted by NEU hot water loop provide Domestic Hot Water (DHW).
- 4. In-suite and central Heat Recovery Ventilators (HRVs).
- 5. Strategically placed shades and balconies optimize solar heat gain.
- 6. Optimized window-to-wall ratio balance access to daylight and reduced energy use.
- 7. Intensive green roof coverage provided stormwater management.
- 8. Advanced energy metering for office and commercial space.



7.9 Performance Analysis

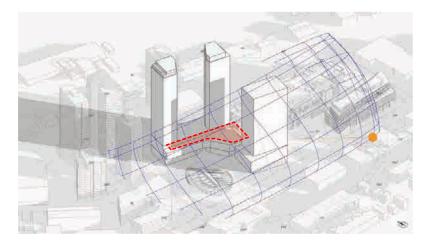
7.9.1 Childcare Sunshine Hours

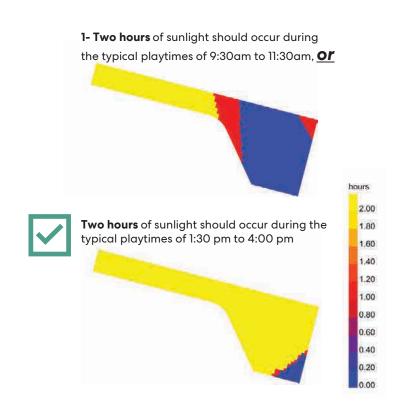
Sunshine analysis was conducted to assess sunlight exposure on the childcare roof.

The Childcare Design Guidelines require outdoor play areas to receive a minimum of three hours of direct sunlight per day at the winter solstice. In addition, a minimum of two hours of sunlight are required between 9:30 am - 11:30 am, or 1:30 pm to 4:00 pm to meet the requirements of the guidelines.

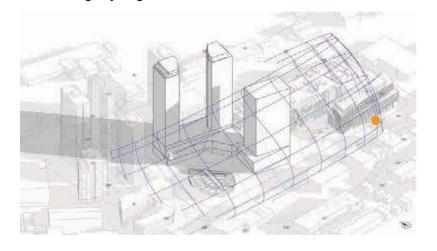
The study concludes that the Childcare Design Guidelines are met and the outdoor childcare space will receive adequate sunshine hours.

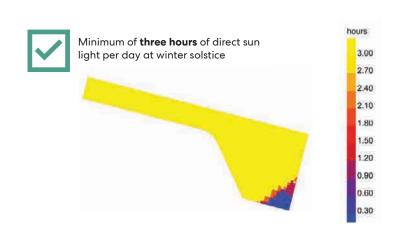
Winter solstice Lowest Altitude





Feb 1st Slightly Higher Altitude





	Whole day (>3hr)	9:30-11:30am (>2hr)	1:30 to 4:00pm (>2hr)
Winter solstice	Yes	Partially	Yes
1st February	Yes	Partially	Yes





7.9.2 Acoustic Analysis

Two rail lines are located within 300m north of the site. A preliminary acoustic analysis was performed to determine the possible effects of noise on the childcare and residential towers.

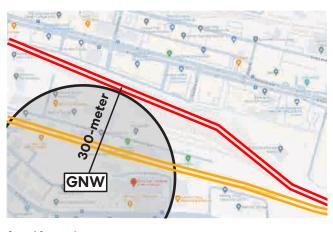
The City recommends a maximum sound pressure level of 55dB(A) 24 hour equivalent sound level. Through analysis the project team was able to determine that the recommended equivalent sound level was achieved throughout the project apart from the north facing ground floor podium.

The north facing podium is programmed as back of house space. For this reason the project team do not believe the increased equivalent sound level will negatively impact occupants. For the childcare spaces planned planting and landscaping not accounted for in the study will further reduce noise levels creating a comfortable acoustic environment.

RECOMMENDED NOISE CRITERIA - RESIDENTIAL OR OTHER SENSITIVE LAND USES IN PROXIMITY TO FREIGHT RAIL SHUNTING YARDS

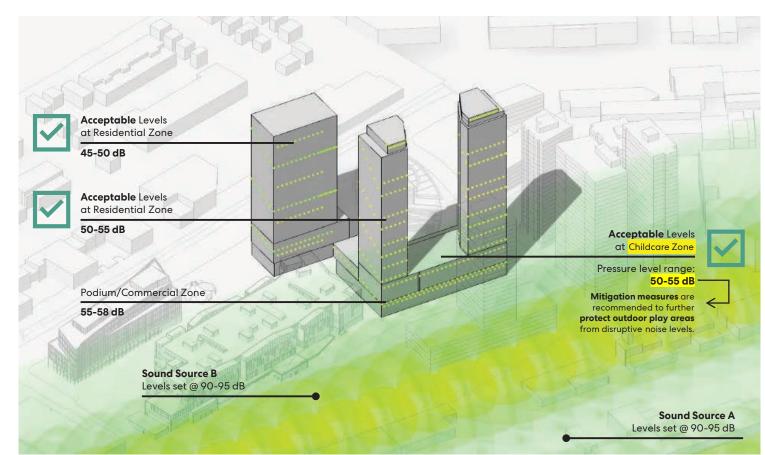
TYPE OF SPACE	TIME PERIOD	SOUND LEVEL LIMIT Leq* (dBA) Rail**	OUTDOOR SOUND LEVEL LIMIT Leg * (dBA)
Redroams	2300 to 0700 hrs	36	60
triving/dinnig rooms	0700 to 2300 hrs	40	- 55
Cutdoor Living Area	0700 to 2300 Nrs	1955	50/4

TIME OF DAY	ONE HOUR Leg (dBA)		
	Class 1 Area		
0700 - 1900	50		
1900 2300	47		



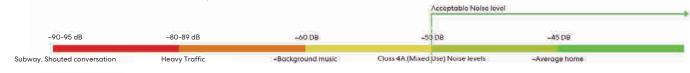
Sound Source A Levels set @ 90-95 dB

Sound Source B Levels set @ 90-95 dB



* Simulation follows the sound decay inverse law and does not account for sound reflections.

** All simulated measurements are taken at the outdoor façade



healthlinkbc.ca





Section 8.0

Architecture Drawings

Contents

8.1	Project Statistics	118
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8.7	FSR Overlays	143
8.8	Shadow Studies	164





8.1 Project Statistics

FSR SUMMARY (IMPERIAL)

LOCATION	RESIDENTIAL	RETAIL	OFFICE	CHILDCARE	LOADING	TOTAL
LOT 6	216536.79 ft ²					
LOT 8N	216641.86 ft ²	37641.94 ft ²	74186.91 ft²	23371.35 ft ²	5871.18 ft ²	
LOT 7	-	22917.35 ft ²	-	-	-	
LOT 8S	-	10762.22 ft²	269496.76 ft ²	-	-	
SUB TOTAL	-	71321.51 ft²	343683.67 ft ²	-	-	
TOTAL	433178.65 ft ²	41500	5.18 ft²	23371.35 ft ²	5871.18 ft²	877426.37 ft ²

FSR SUMMARY (METRIC)

LOCATION	RESIDENTIAL	RETAIL	OFFICE	CHILDCARE	LOADING	TOTAL
LOT 6	20116.93 m ²					
LOT 8N	20126.69 m ²	3497.05 m ²	6892.19 m²	2171.27 m ²	545.45 m ²	
LOT 7	-	2129.09 m ²	-	-	-	
LOT 8S	-	999.84 m²	25037.07 m ²	-	-	
SUB TOTAL	-	6625.98 m ²	31929.26 m ²	-	1	
TOTAL	40243.61 m ²	38555	.24 m²	2171.27 m ²	545.45 m²	81515.58 m ²

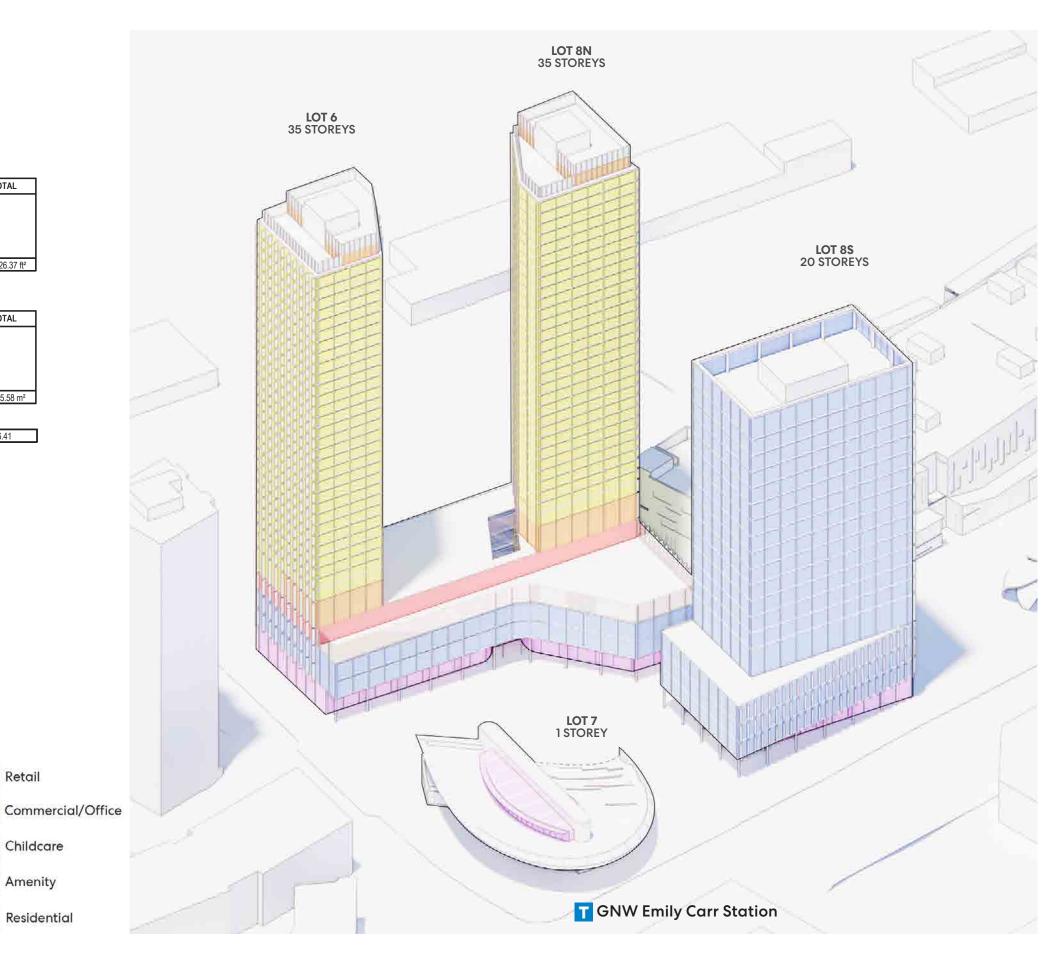
FSR	6.41

Retail

Childcare

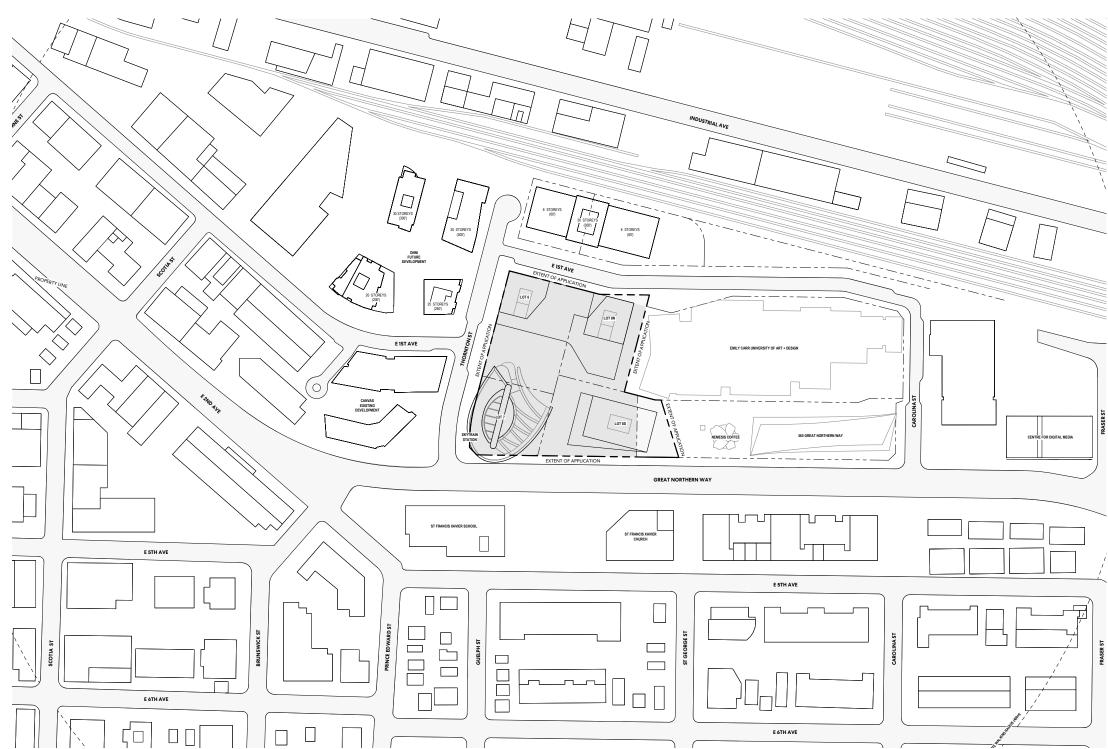
Amenity

Residential



8.2 Context Map

Site Area Including Station Headhouse: 12,716 sq.m (136,874 sq.ft)
Site Area Excluding Station Headhouse: 12,214 sq.m (131,470 sq.ft)
Site Coverage: 61.90%



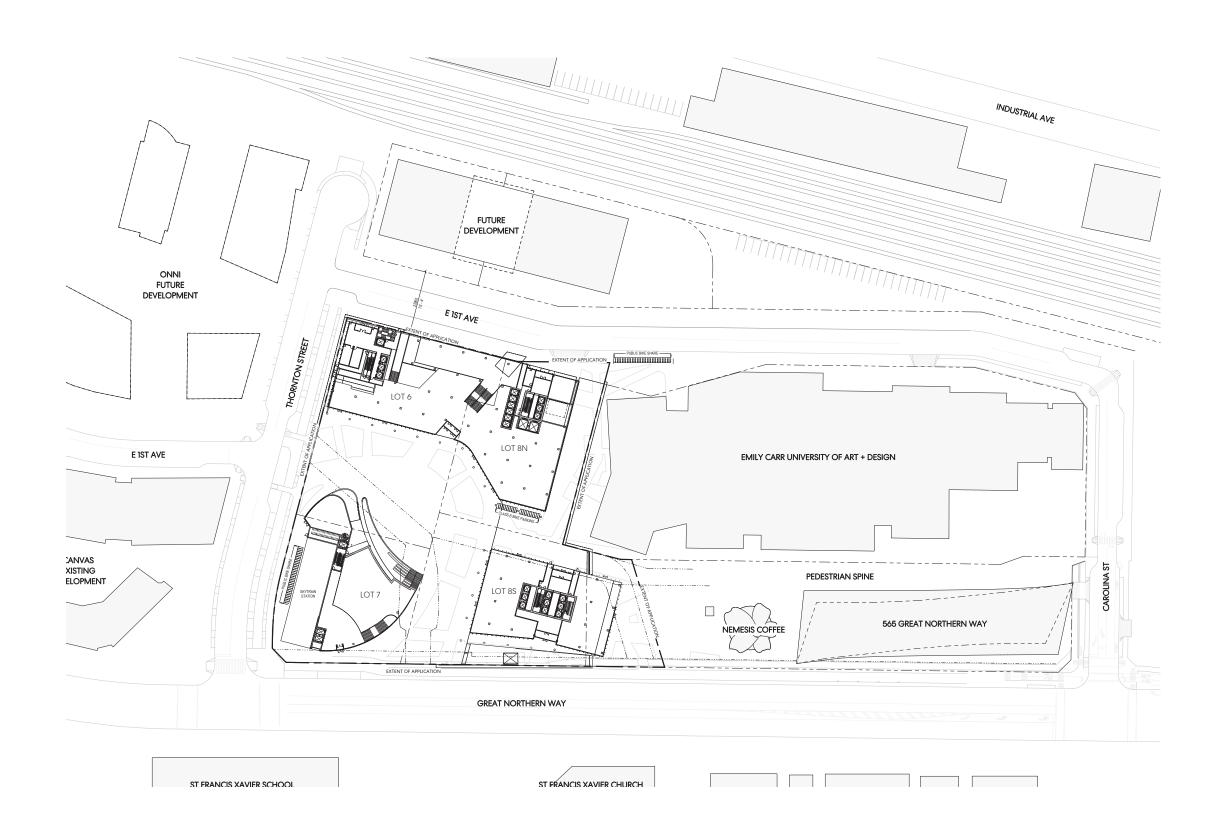






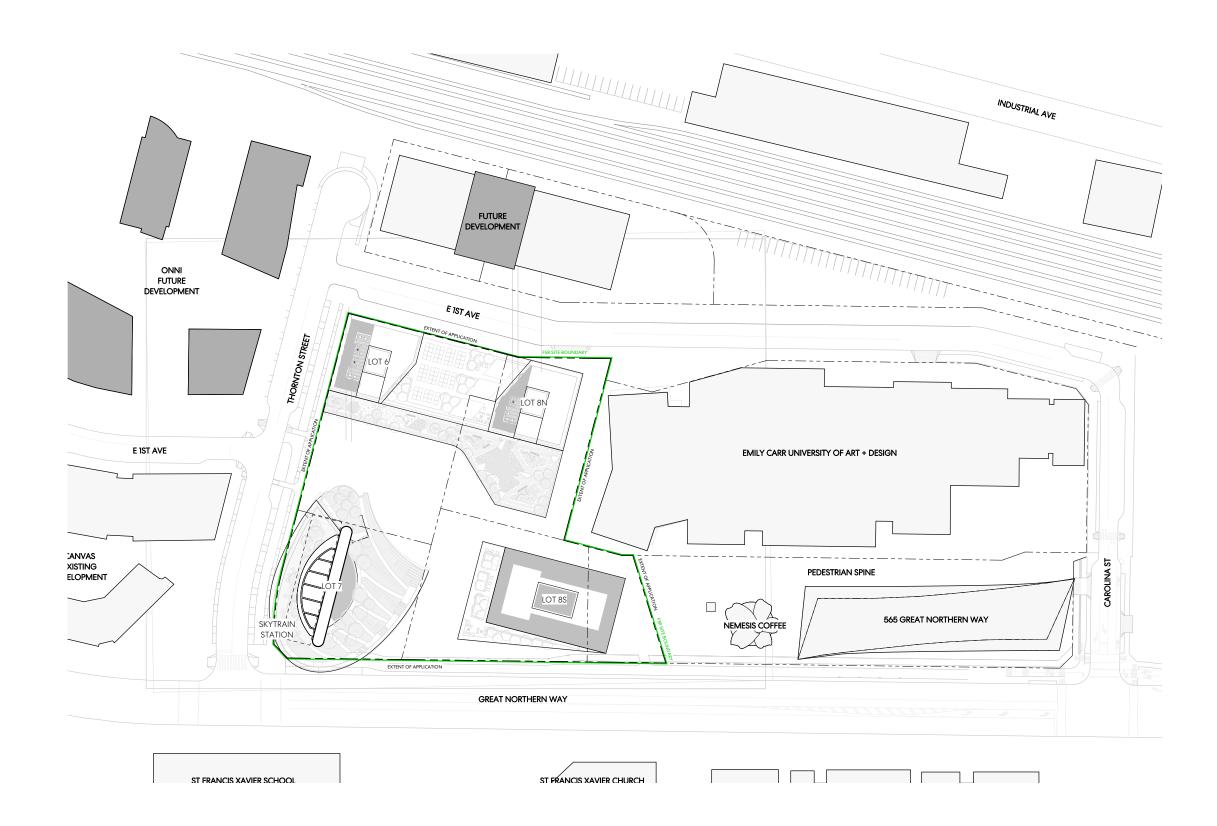
8.3 Site Plans

Site Plan - Grade Level





Site Plan - Roof Level





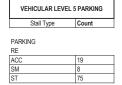


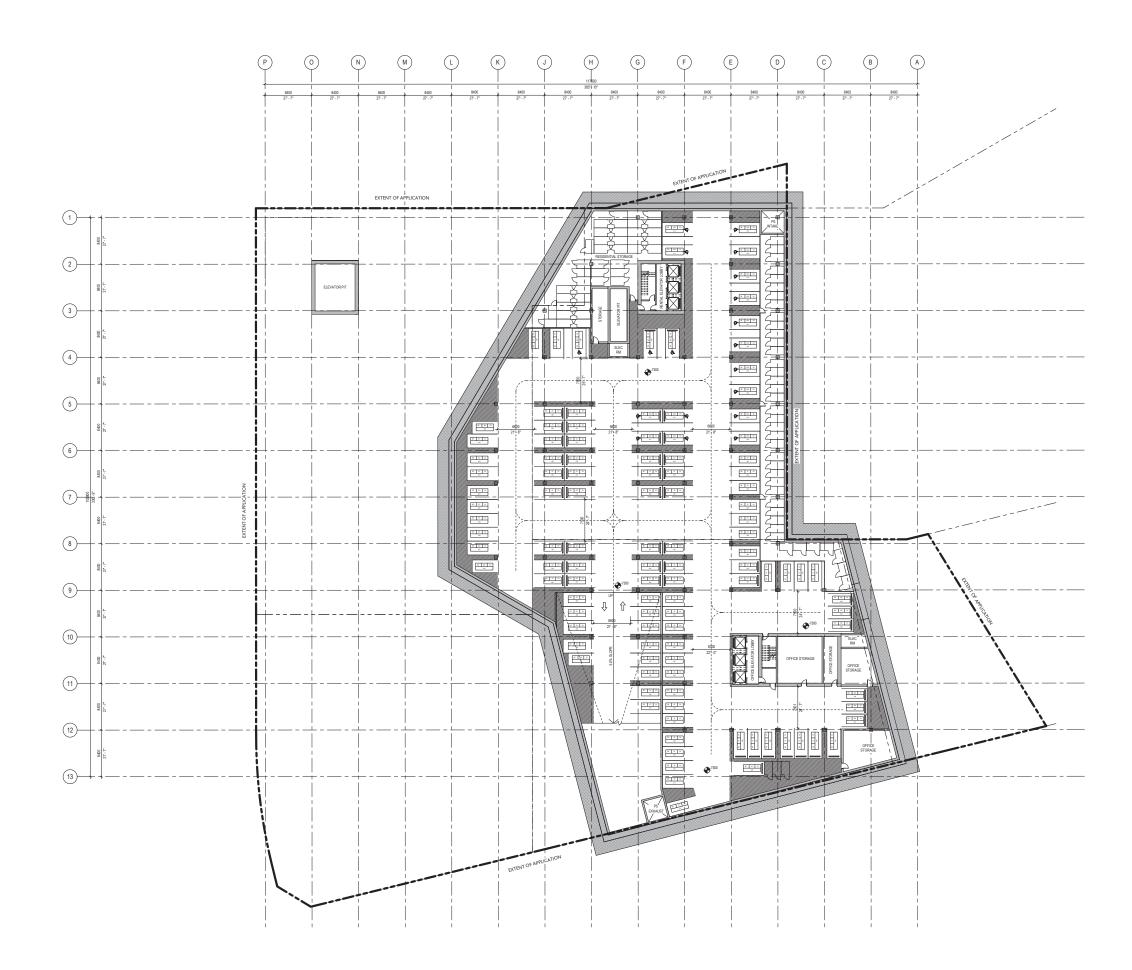


8.4 Floor Plans

Level P5

PARKING STALL LEGND XX - XX - ### USE TYPE STALL# USES RE RESIDENTIAL RE VIS RESIDENTIAL VISITOR PARKING RE PL RESIDENTIAL LOADING RE L RESIDENTIAL LOADING CH CHILDCARE RO RETAIL / OFFICE RO PL RETAIL / OFFICE LOADING TYPES ST STANDARD SM SMALL W WIDE ACC ACCESSIBLE A CLASS A B CLASS B







Level P4

PARKING STALL LEGND

JSE TYPE STALL#

USES

RE RESIDENTIAL
RE VIS RESIDENTIAL VISITOR PARKING
RE PL RESIDENTIAL PASSENGER LOADING
RE L RESIDENTIAL LOADING

CHI CHILDCARE

RO RETAIL / OFFICE RO PL RETAIL / OFFICE PASSENGER LOADI RO L RETAIL / OFFICE LOADING

TYPES

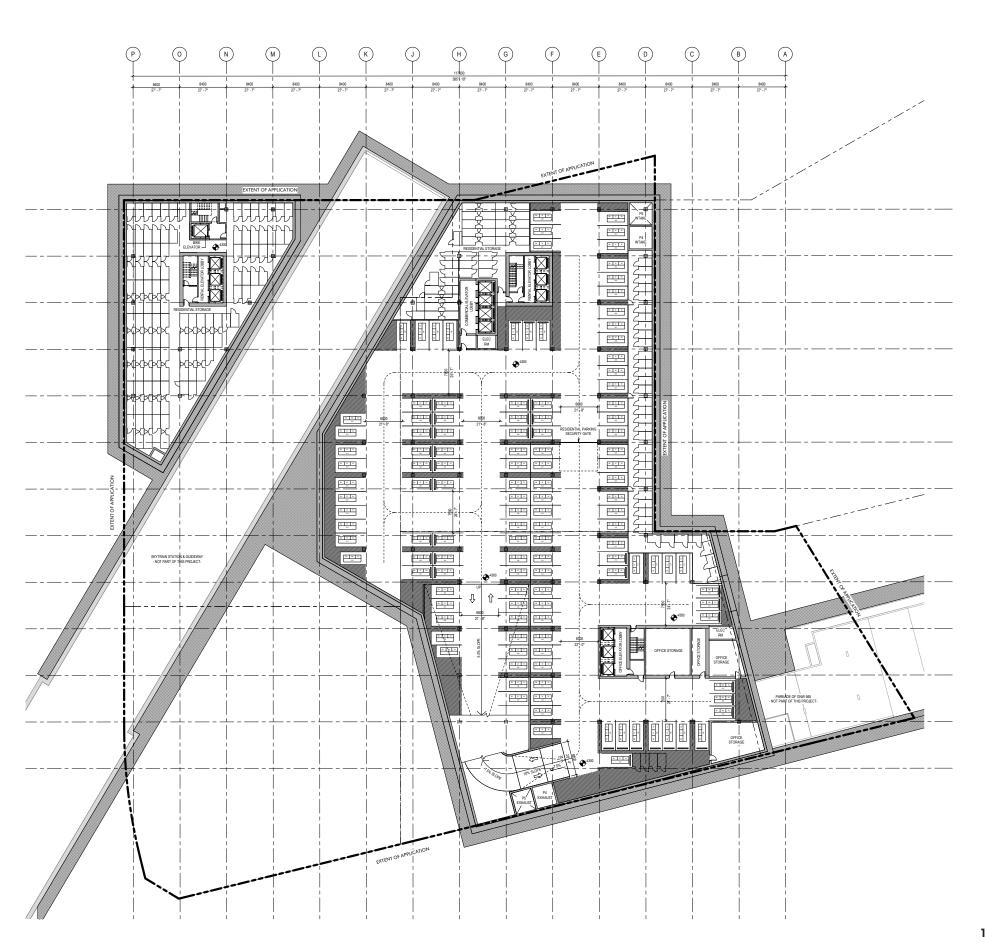
ST STANDARD
SM SMALL
W WIDE
ACC ACCESSIBLE
A CLASS A
B CLASS B

VEHICULAR LEVEL 4 PARKING

Stall Type Count

PARKING

KE	
SM	8
ST	61
RO	
SM	1
ST	59









Level P3

PARKING STALL LEGND

USE TYPE STALL#

USES

RE RESIDENTIAL
RE VIS RESIDENTIAL VISITOR PARKING
RE PL RESIDENTIAL PASSENGER LOADING
RE L RESIDENTIAL LOADING

CH CHILDCARE

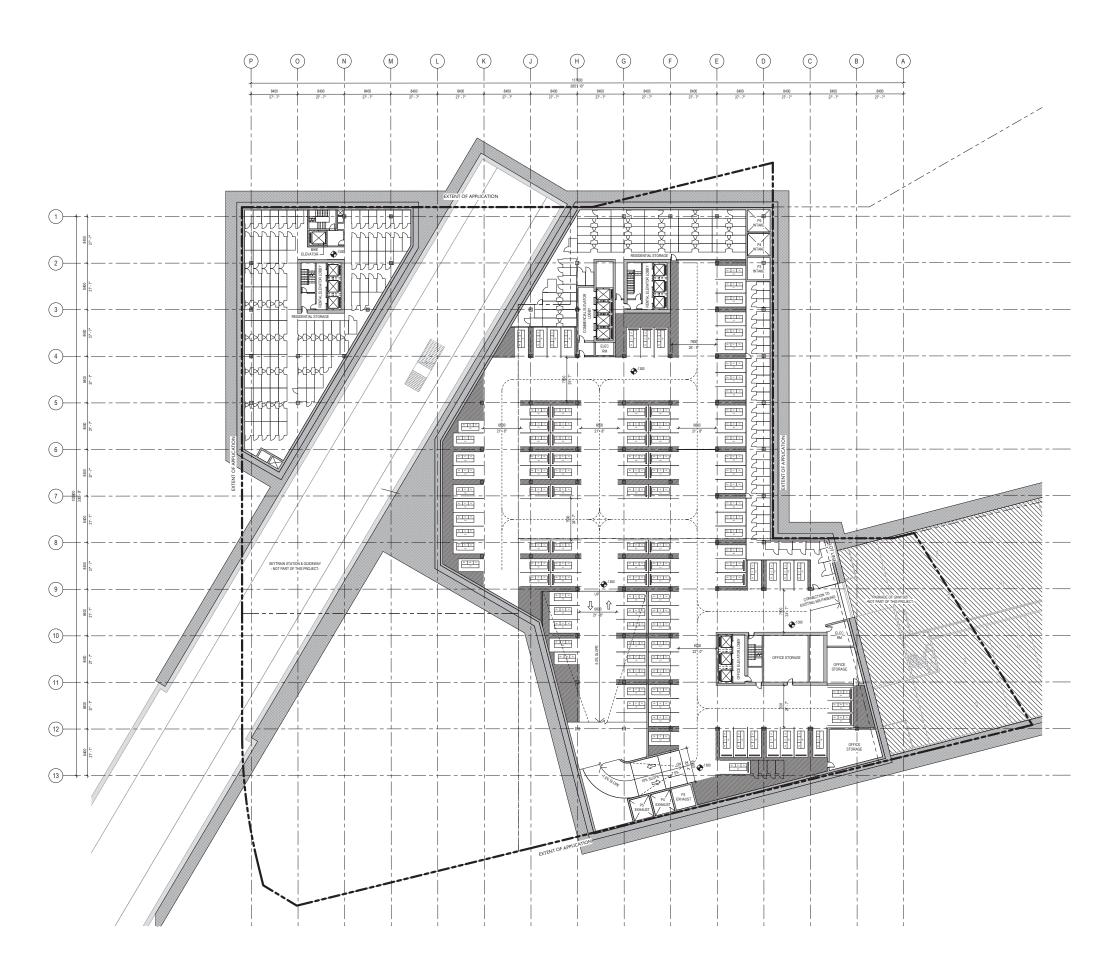
RO RETAIL / OFFICE RO PL RETAIL / OFFICE PASSENGER LOAD RO L RETAIL / OFFICE LOADING

TYPES

ST STANDARD
SM SMALL
W WIDE
ACC ACCESSIBLE
A CLASS A
B CLASS B

VEHICULAR LEVEL 3 PARKING Stall Type Count

NO	
SM	6
ST	108
	114





Level P2

PARKING STALL LEGND

SE TYPE STALL#

USES

RE RESIDENTIAL
RE VIS RESIDENTIAL VISITOR PARKING
RE PL RESIDENTIAL PASSENGER LOAD
RE L RESIDENTIAL LOADING

CH CHILDCARE

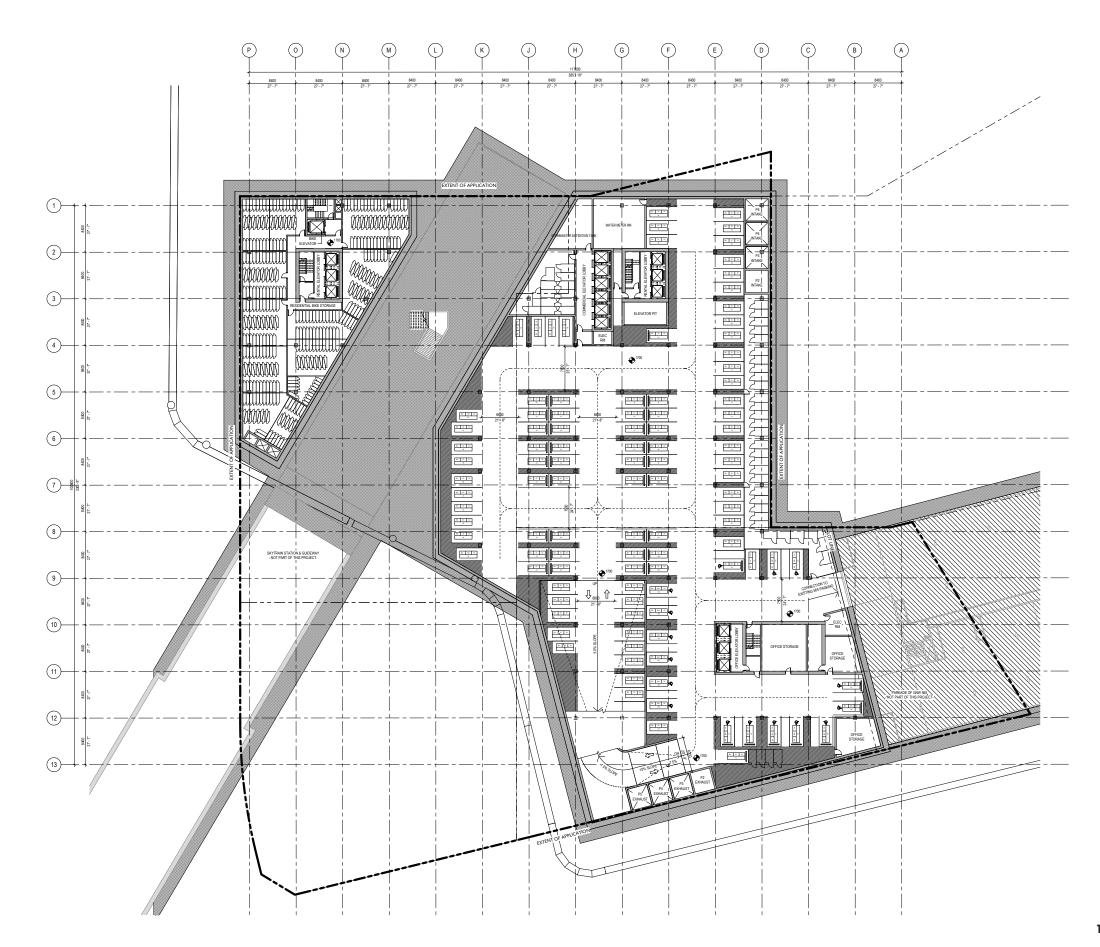
RO RETAIL / OFFICE RO PL RETAIL / OFFICE PASSENGER LO RO L RETAIL / OFFICE LOADING

TYPES

ST STANDARD
SM SMALL
W WIDE
ACC ACCESSIBLE
A CLASS A
B CLASS B

VEHICULAR LEVEL 2 PARKING

CH	
ST	14
RO	
ACC SM ST	16
SM	4
ST	91







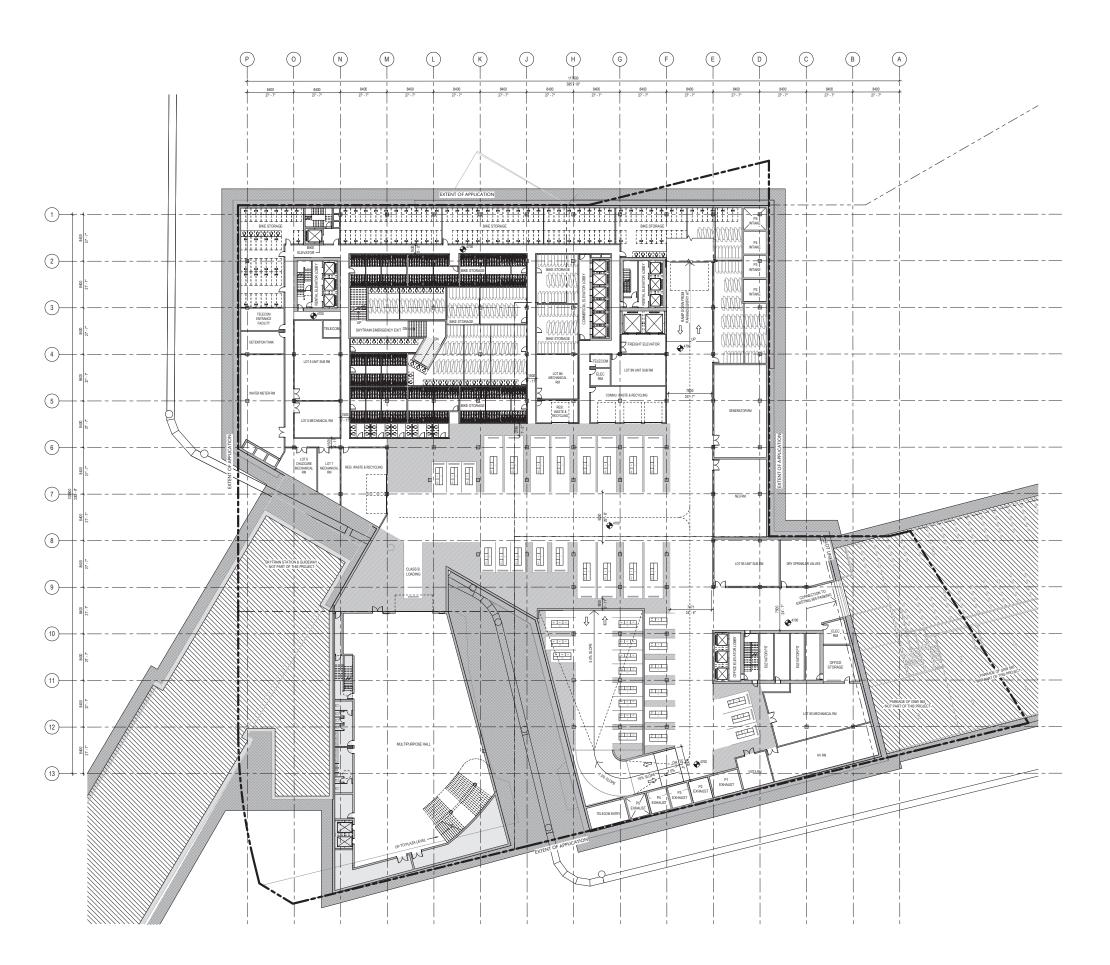


Level P1

PARKING STALL LEGND XX - XX . ### USE TYPE STALL# USES RE RESIDENTIAL RE VIS RESIDENTIAL VISITOR PARKING RE PL RESIDENTIAL PASSENGER LOAD RE L RESIDENTIAL LOADING CH CHILDCARE RO RETAIL / OFFICE PASSENGER LC RO L RETAIL / OFFICE LOADING TYPES ST STANDARD SM SMALL W WIDE ACC ACCESSIBLE AC CLASS A B CLASS B

VEHICULAR LEVEL 1 PARKIN		
Stall Type	Count	
LOADING		
RE L		
A	3	

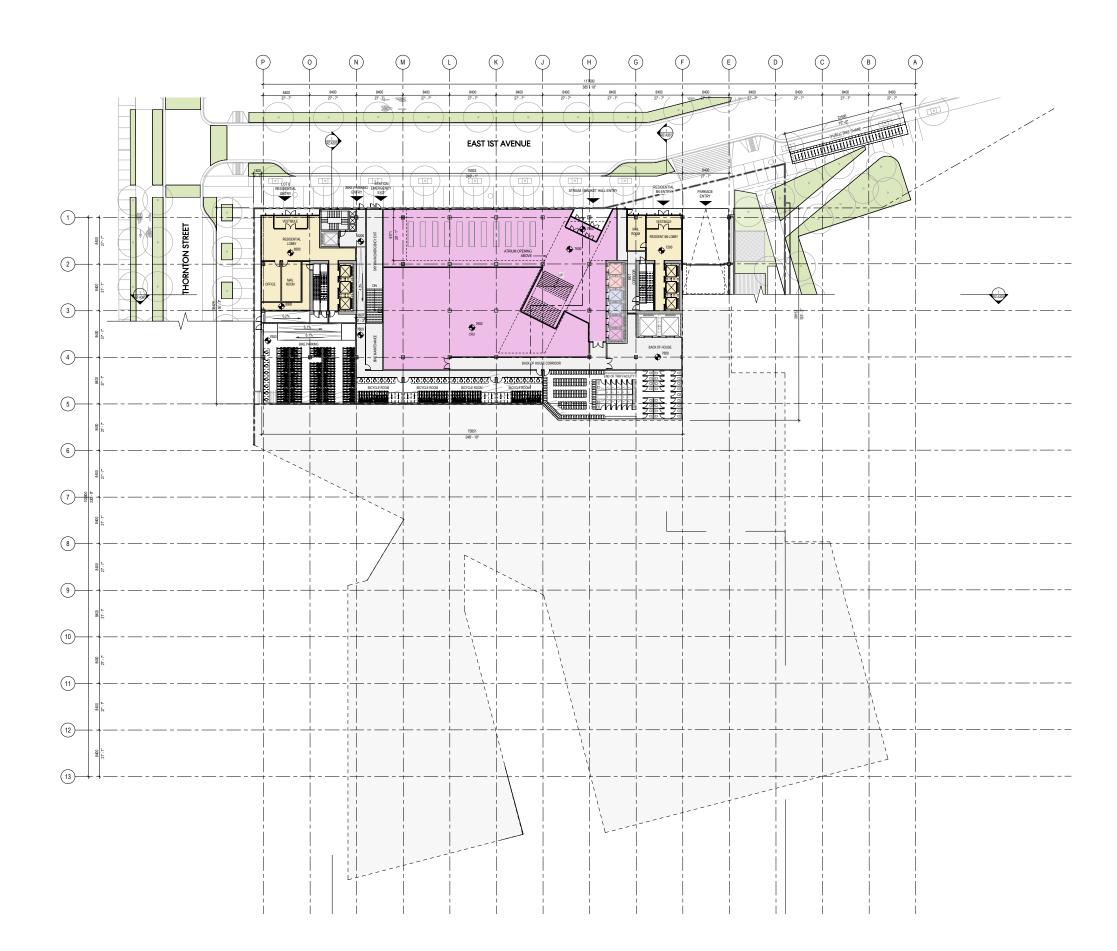
RO L
A 4
B 9





Level 01 - Market Hall

- RESIDENTIAL RENTAL
- RESIDENTIAL LOBBY
- RESIDENTIAL AMENITY
- OFFICE
- OFFICE LOBBY
- OFFICE AMENITY
- CHILDCARE
- RETAIL
- PATIO
- ВОН
- MECH



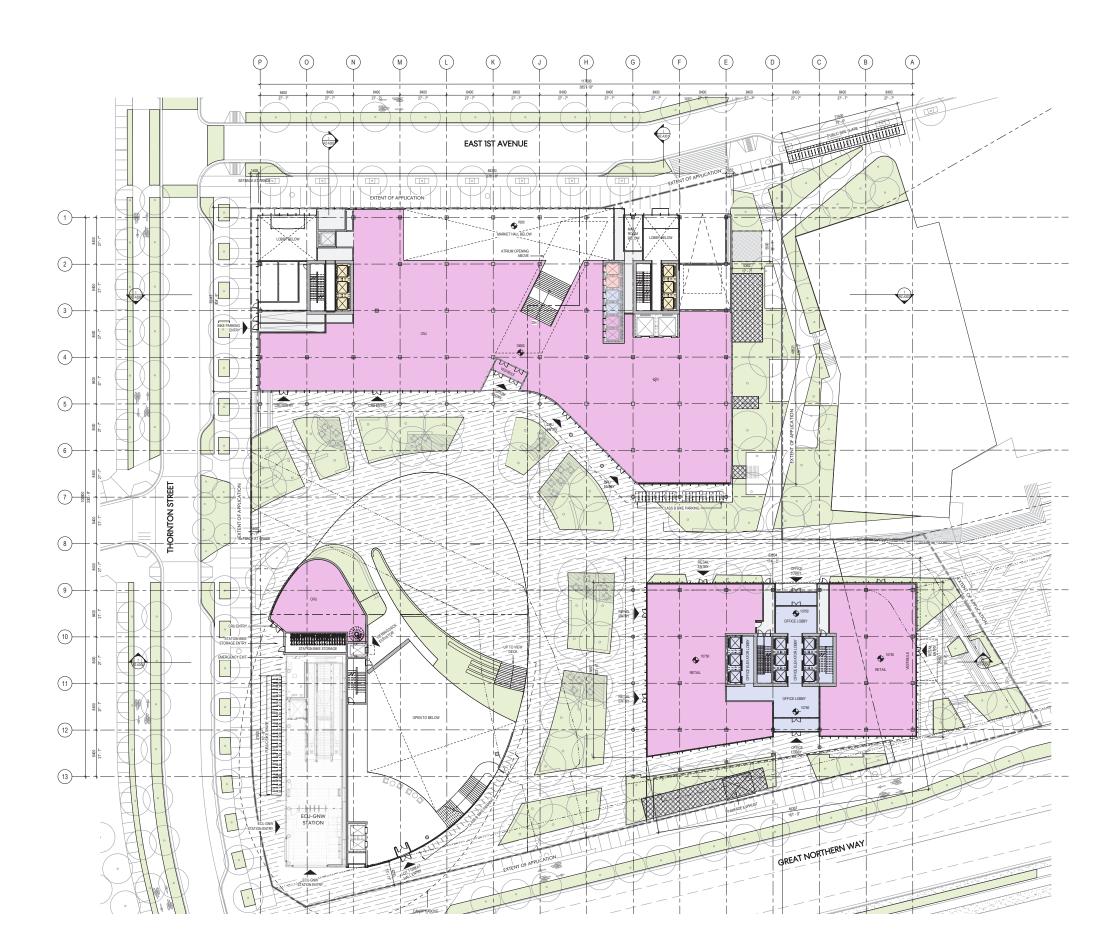




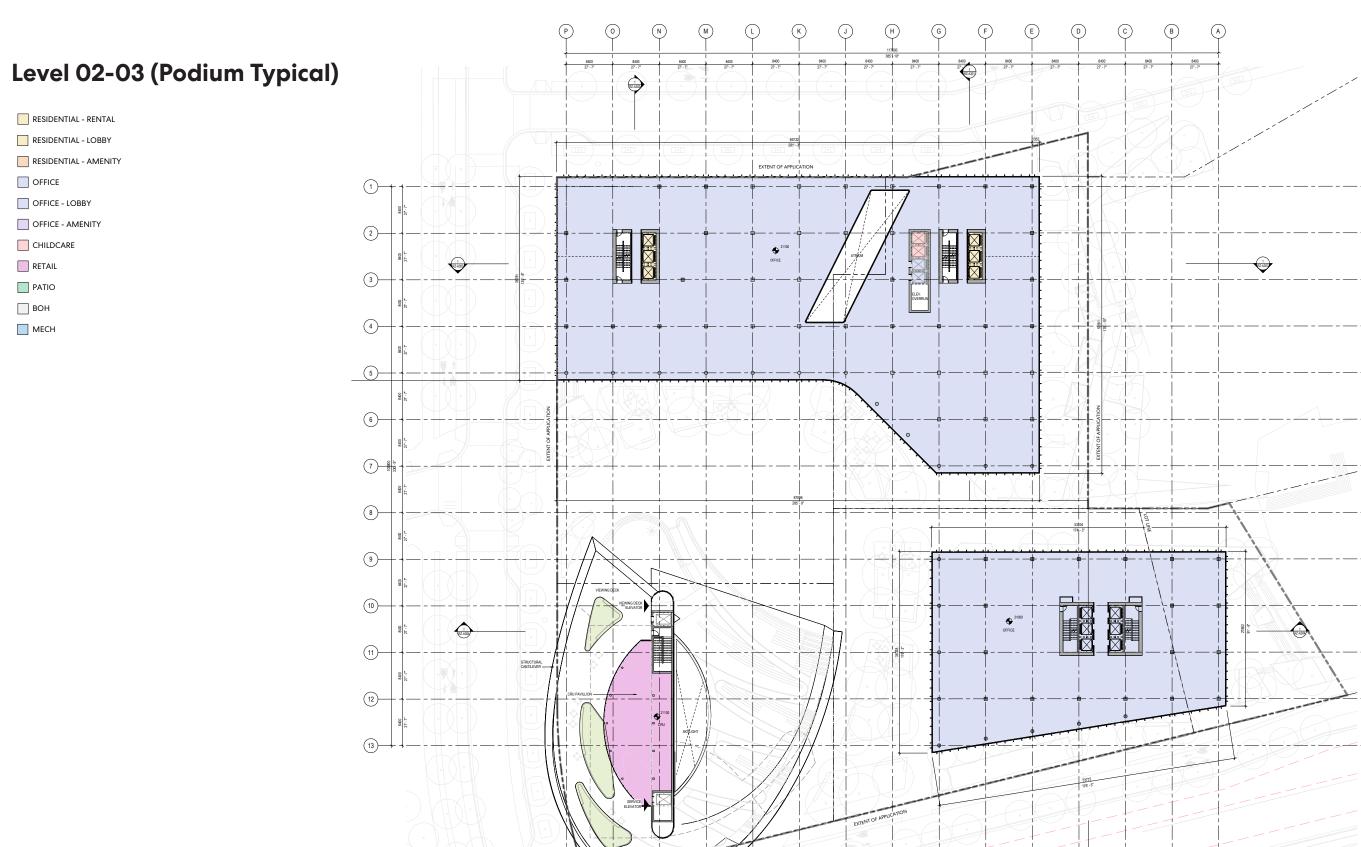


Level 01 - Plaza

- RESIDENTIAL RENTAL
- RESIDENTIAL LOBBY
- RESIDENTIAL AMENITY
- OFFICE
- OFFICE LOBBY
- OFFICE AMENITY
- CHILDCARE
- RETAIL
- PATIO
- ВОН
- MECH

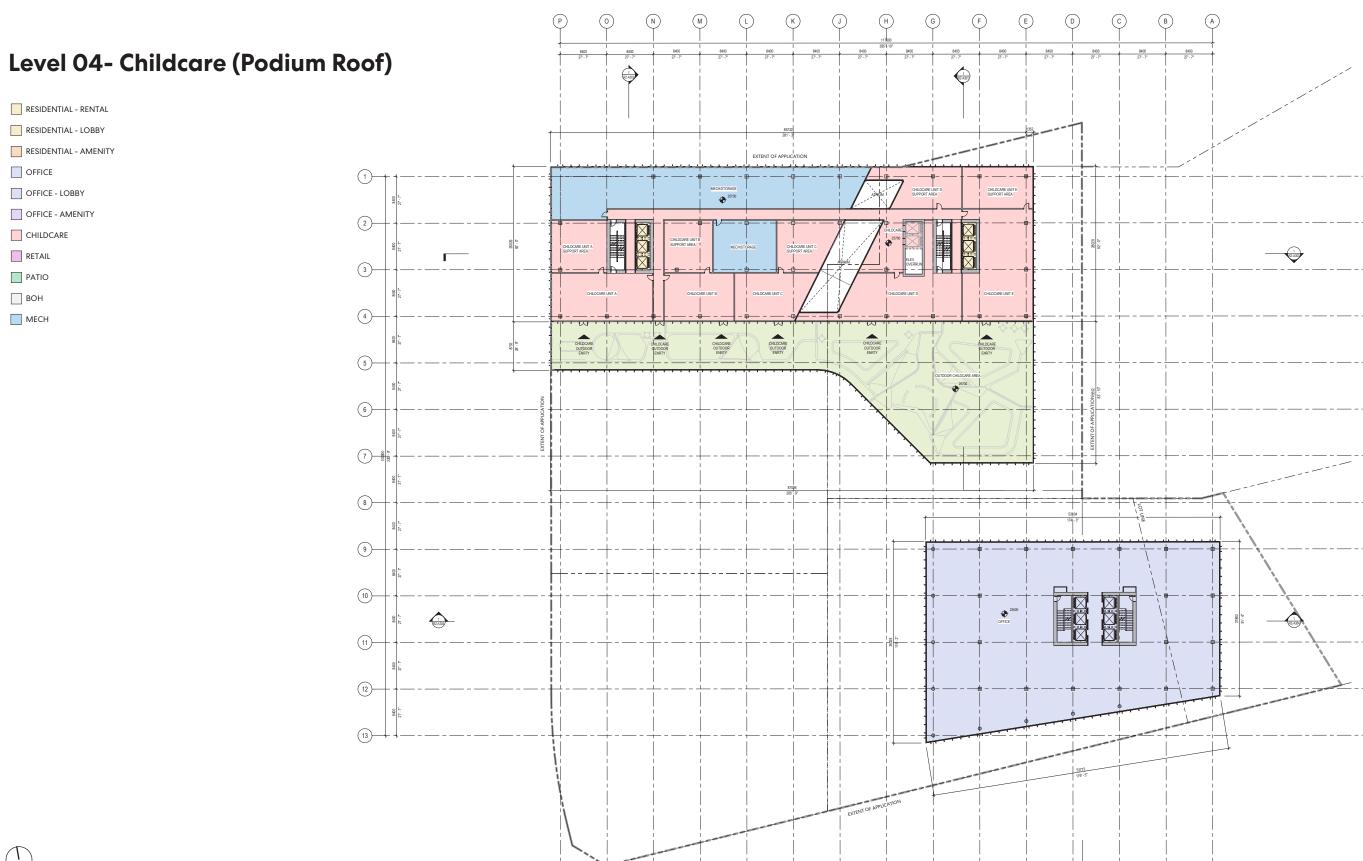






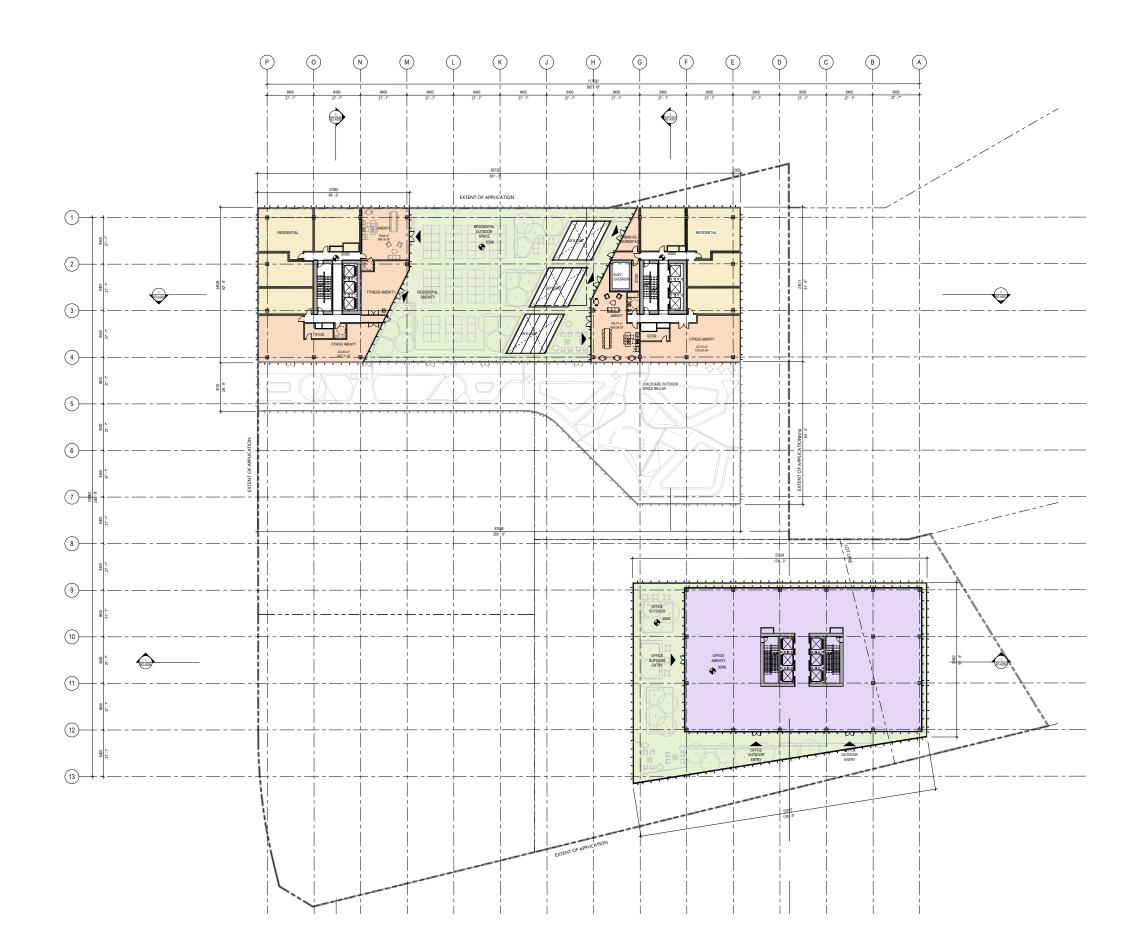






Level 05 Amenity

- RESIDENTIAL RENTAL
- RESIDENTIAL LOBBY
- RESIDENTIAL AMENITY
- OFFICE
- OFFICE LOBBY
- OFFICE AMENITY
- CHILDCARE
- RETAIL
- PATIO
- ВОН
- MECH



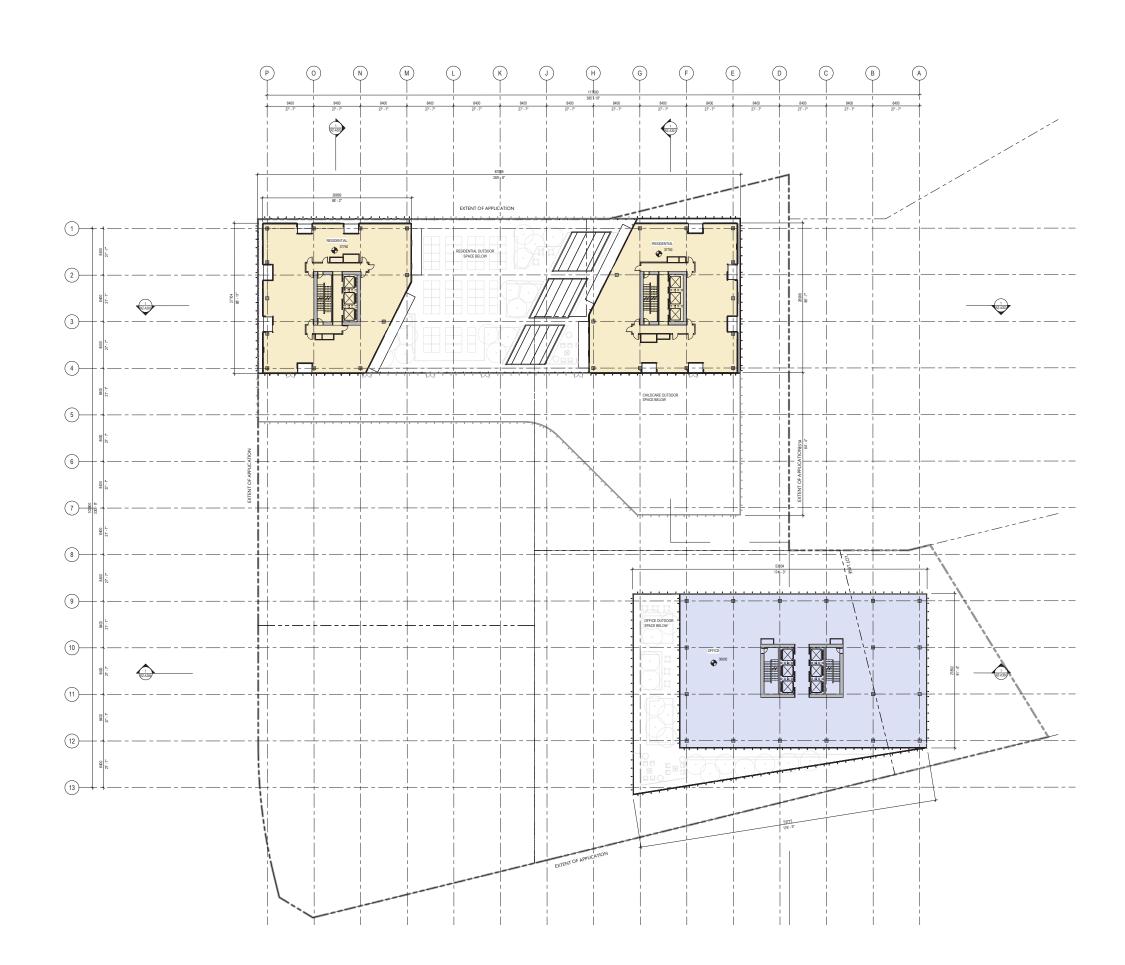




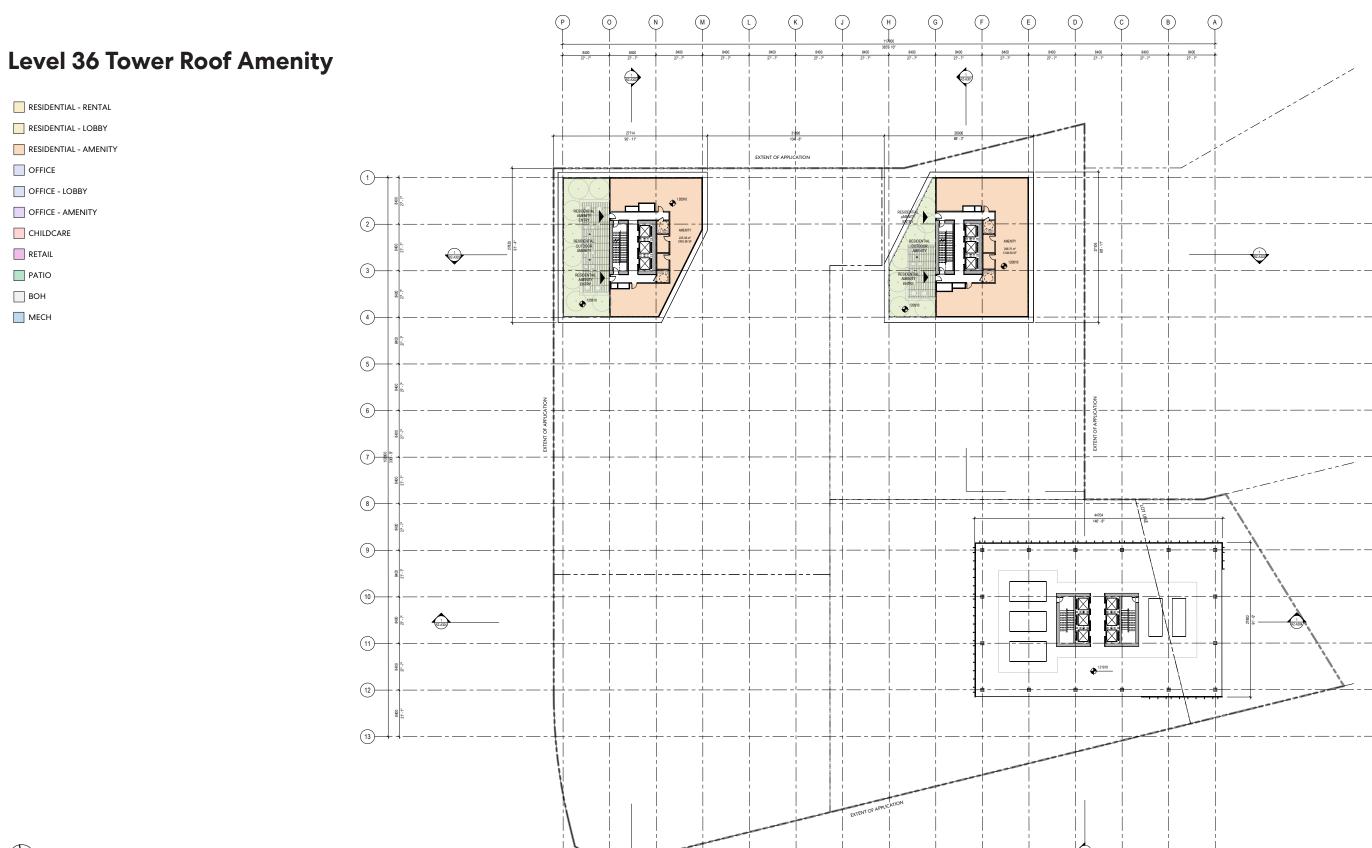


Level 06 (Tower Typical)

- RESIDENTIAL RENTAL
- RESIDENTIAL LOBBY
- RESIDENTIAL AMENITY
- OFFICE
- OFFICE LOBBY
- OFFICE AMENITY
- CHILDCARE
- RETAIL
- PATIO
- ВОН
- MECH

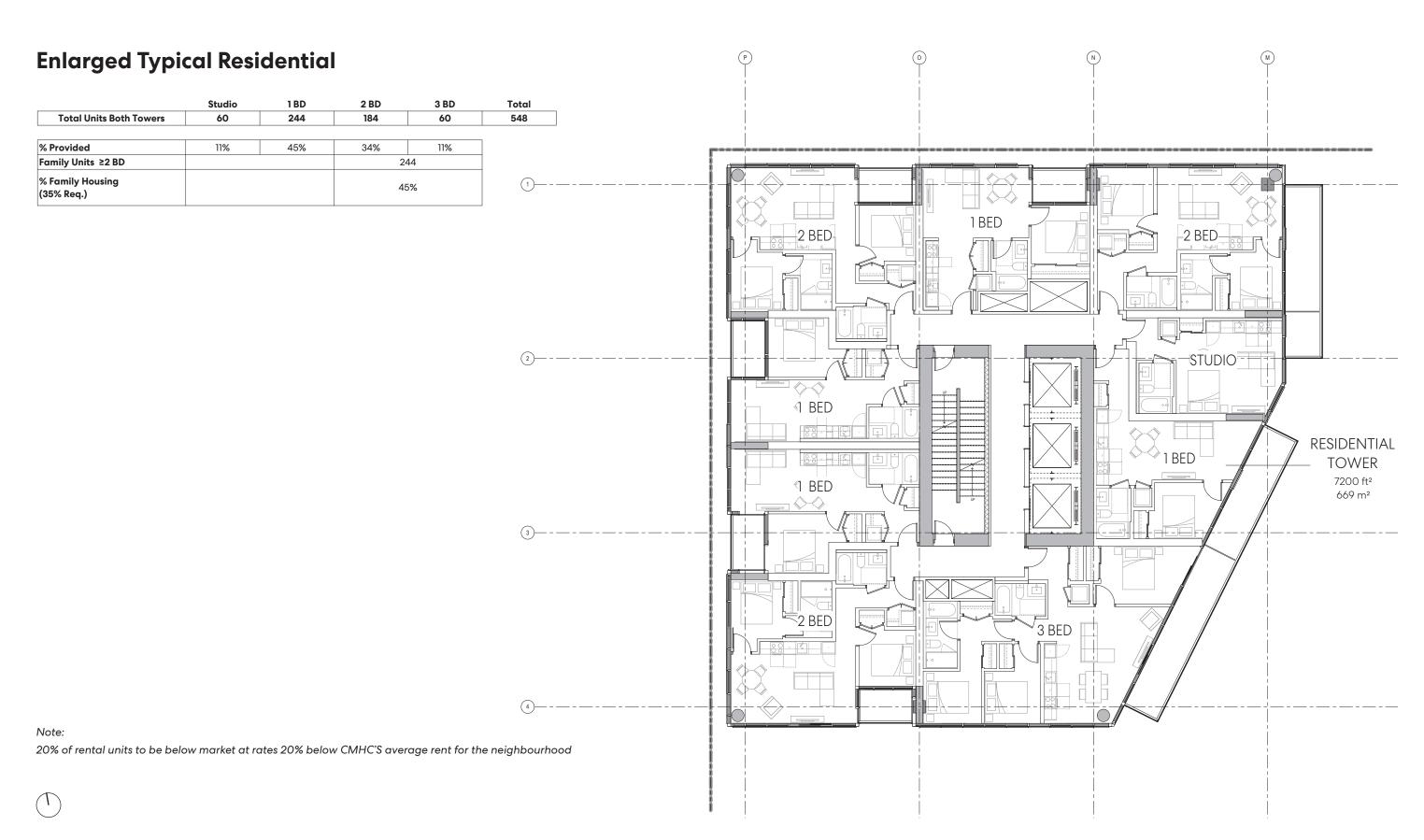










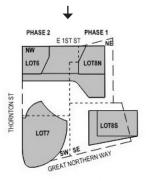


8.5 Elevations

North Elevation

DI III DING	LOT 6	113.3M (371'1")
BUILDING STOREYS &	LOT 7	15.5M (50' 10")
HEIGHT	LOT 8N	113.7M (373' 1")
	LOT 8S	93.35M (306' 3")



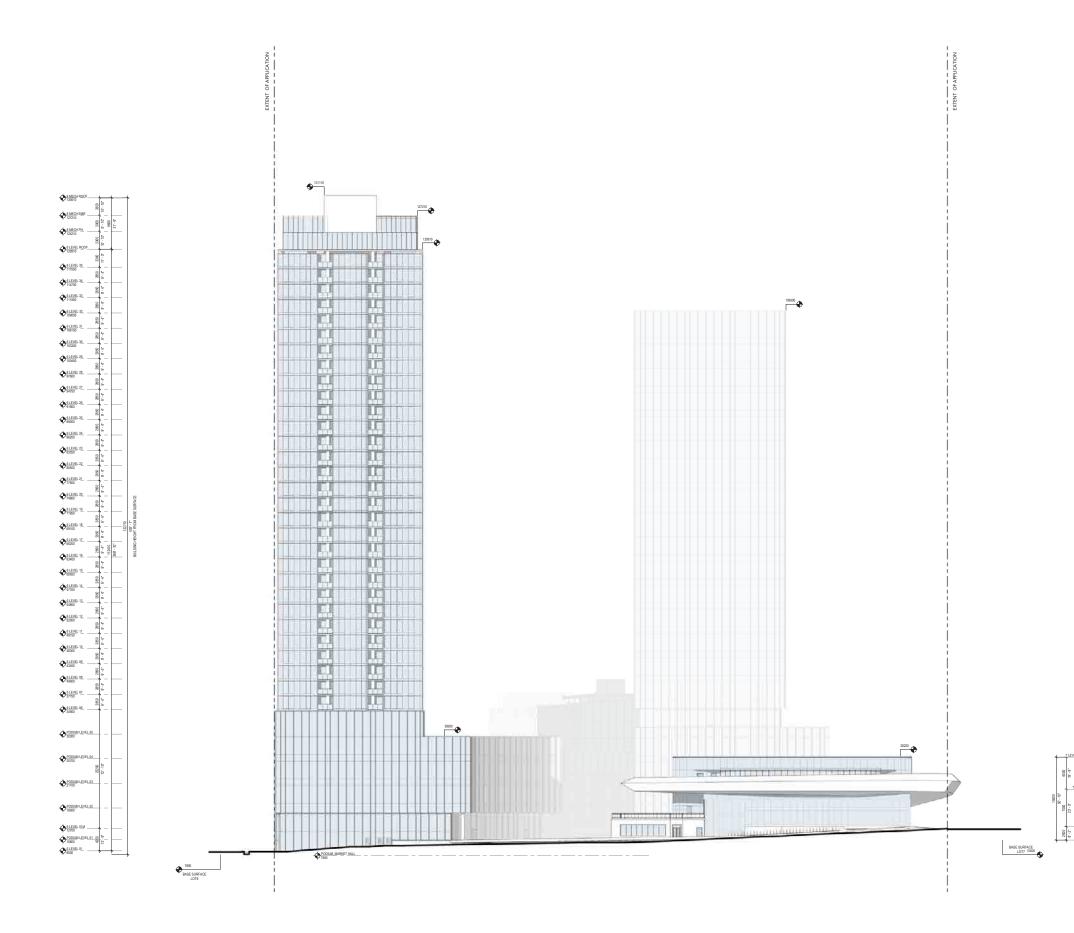


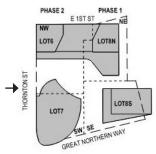




Elevations

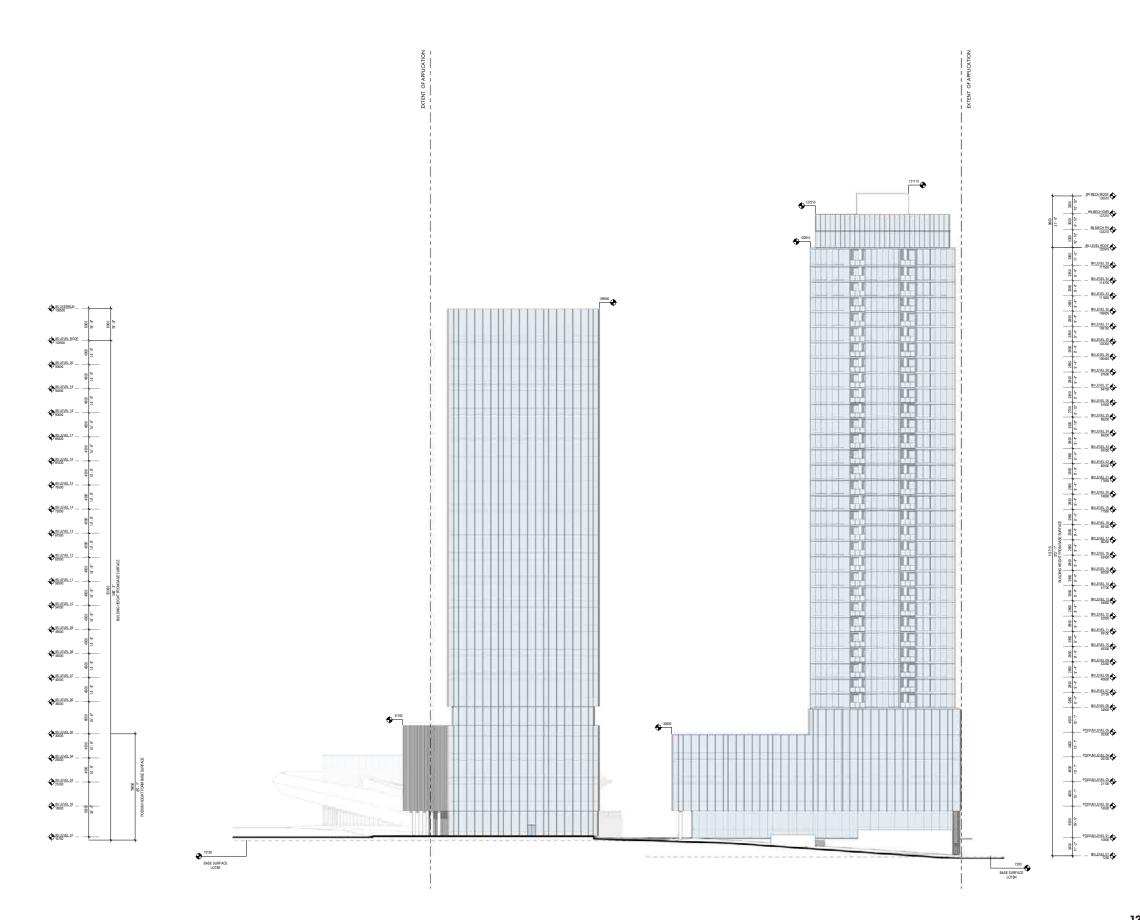
West Elevation

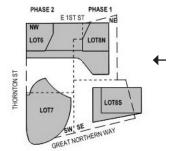




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East Elevation



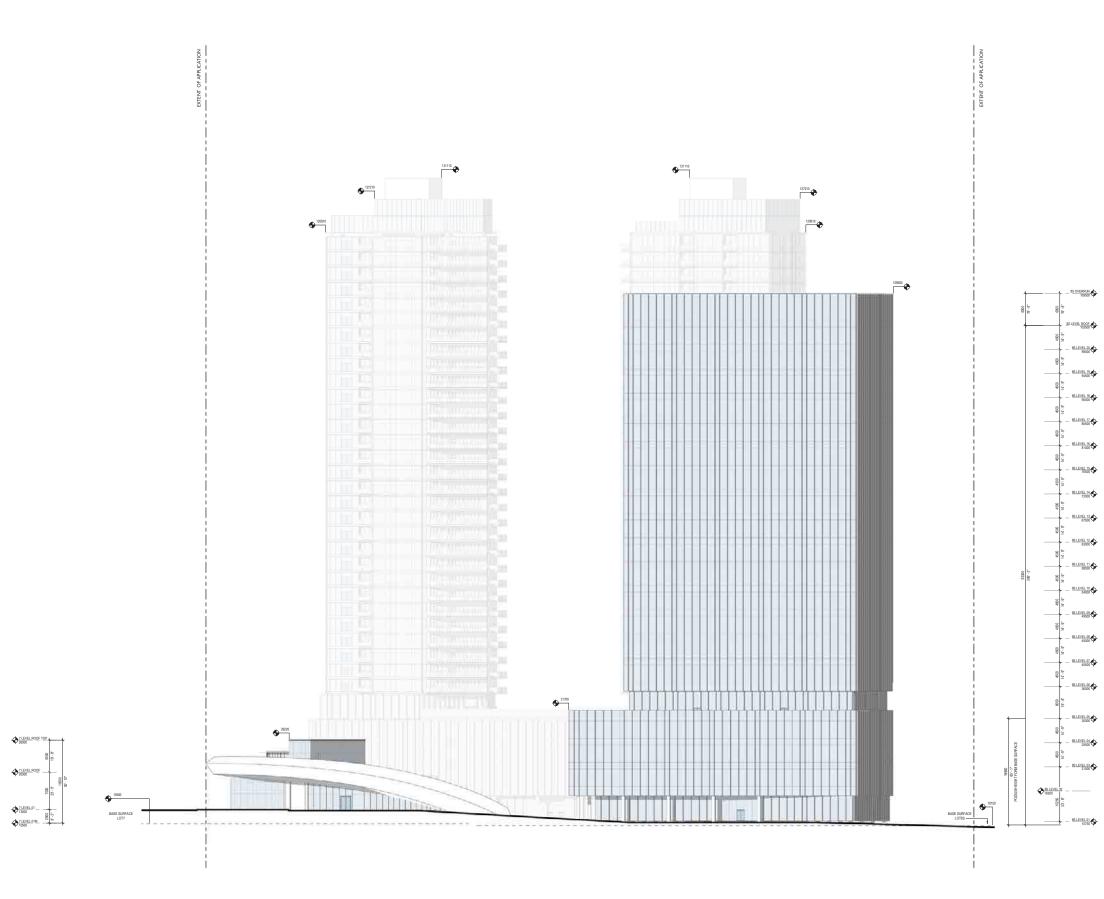


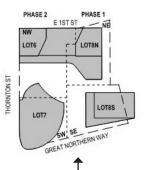




Elevations

South Elevation

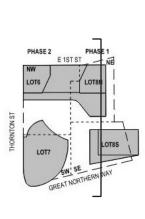




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8.6 Sections

N-S Section 1



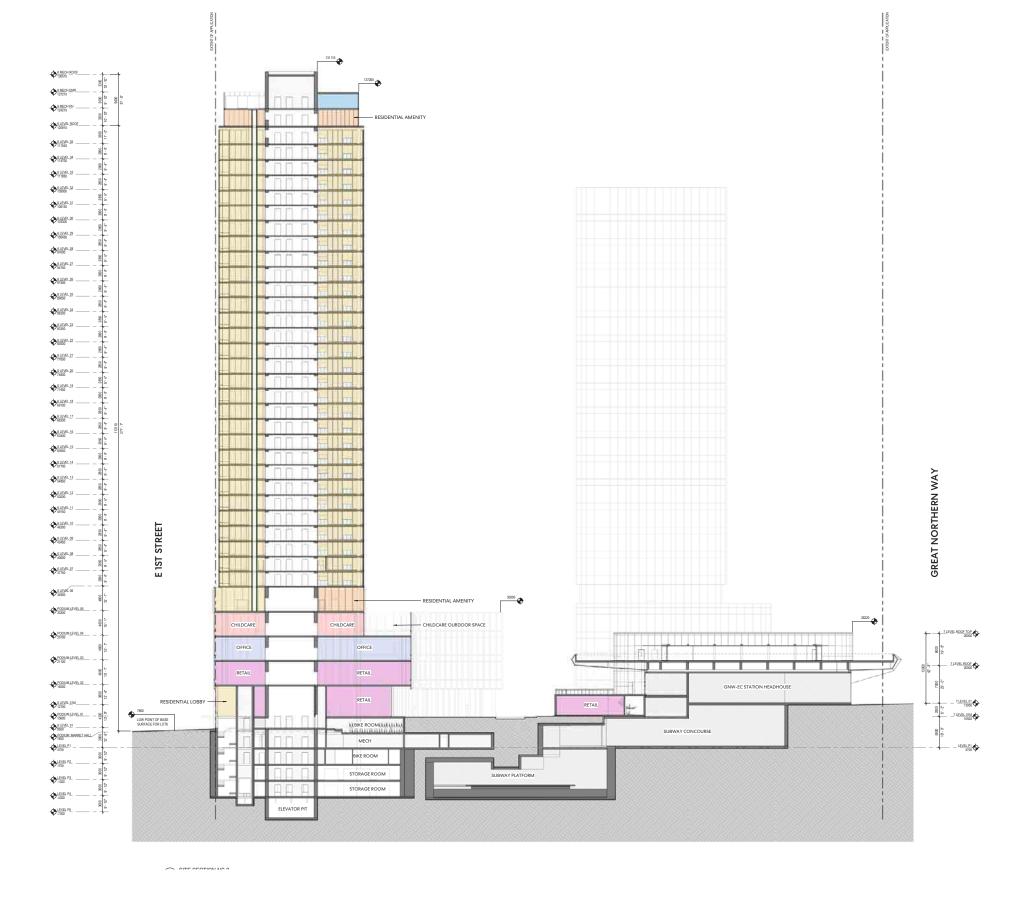


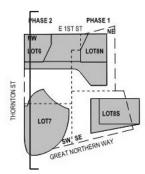




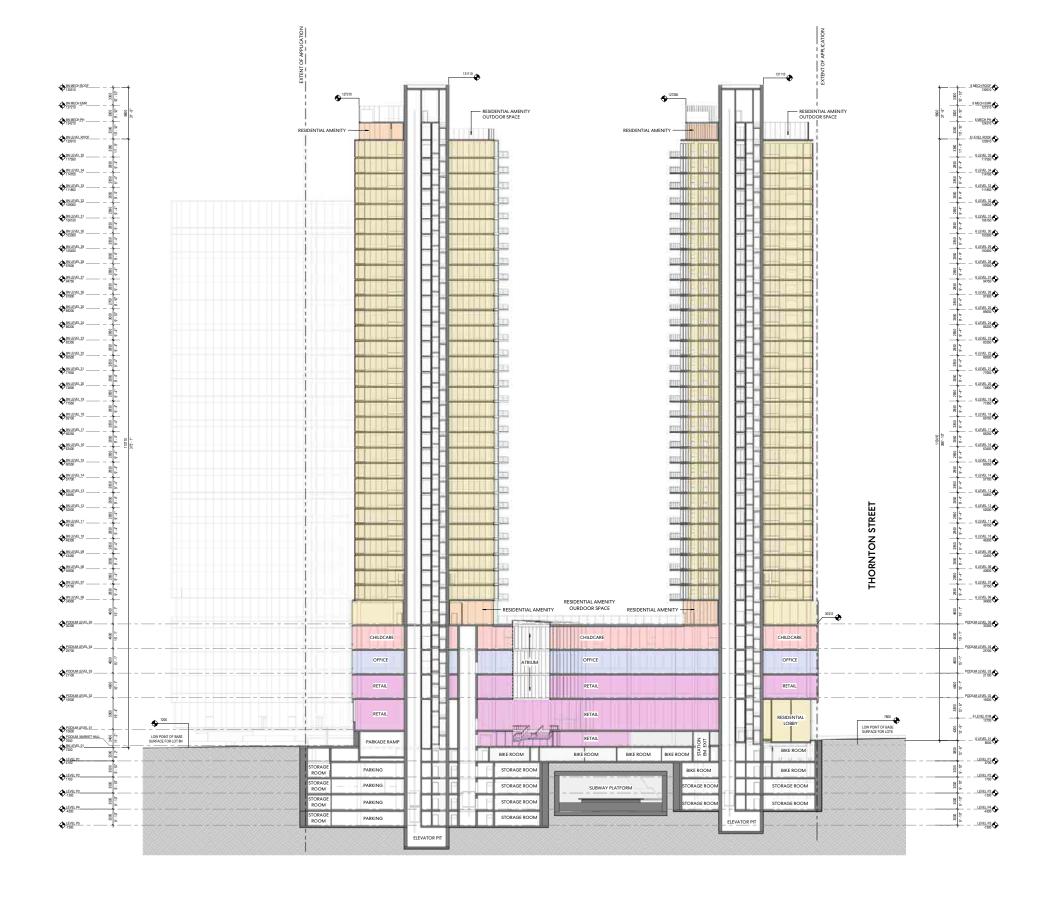
Sections

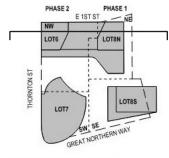
N-S Section 2





W-E Section 1

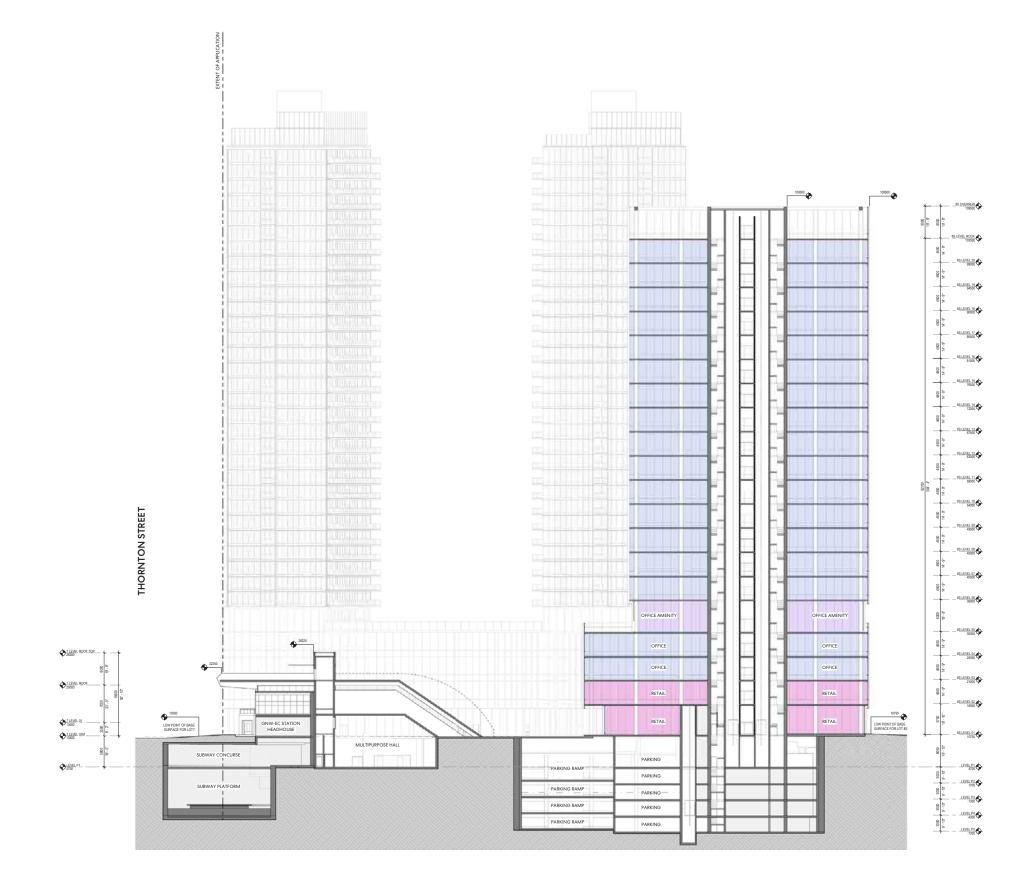


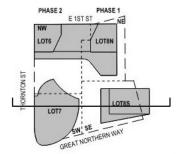






W-E Section 2

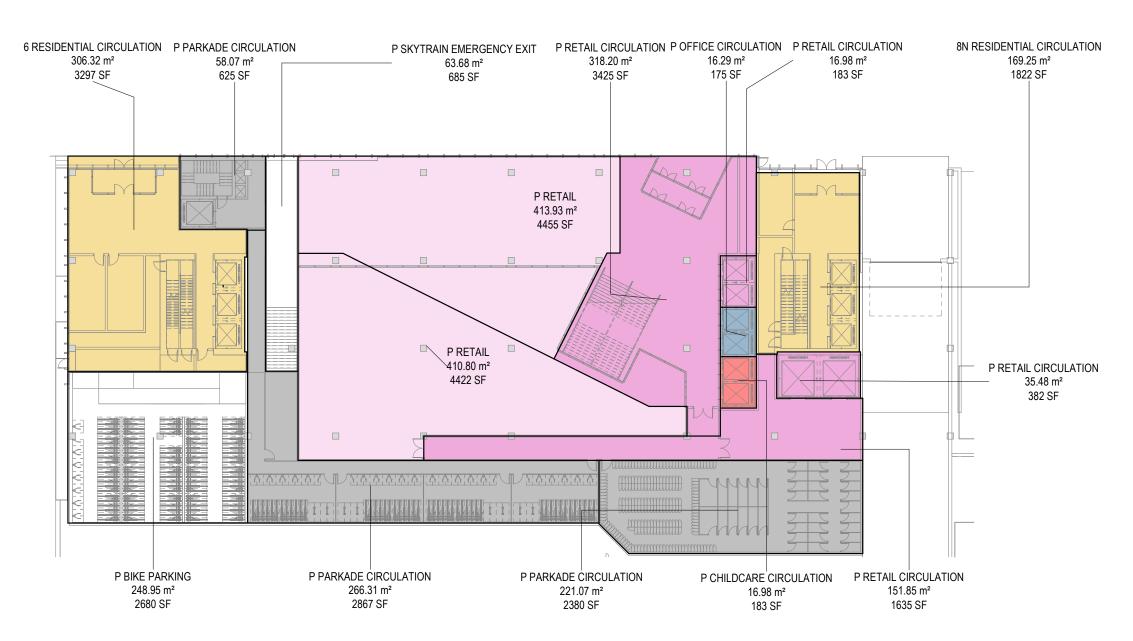


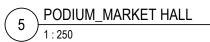


8.7 FSR Overlays

Lots 6 & 8N Podium - Market Hall

	UM MARKET HA	ALL
BIKE PARKING	545.45 m²	5871.18 f
CHILDCARE CIRCULATION	16.98 m²	182.76 f
OFFICE CIRCULATION	16.29 m²	175.34 f
RESIDENTIAL CIRCULATION	475.57 m²	5119.04 f
RETAIL	824.73 m²	8877.34 f
RETAIL CIRCULATION	522.51 m²	5624.22 f
FSR EXCLUSION		
PUBLIC	312.63 m²	3365.13 f
, 000,0	2714.16 m²	29215.01 f
FSR AREA - PODIUM RETAIL	(MARKET HAL	L LEVEL)
P RETAIL	410.80 m²	4421.86 ft
P RETAIL	413.93 m²	4455.47 ft
P RETAIL CIRCULATION	16.98 m²	182.76 ft
P RETAIL CIRCULATION	35.48 m²	381.86 ft
P RETAIL CIRCULATION	318.20 m ²	
P RETAIL CIRCULATION	151.85 m²	1634.55 ft
THE THE CHACCE ATTOM	1347.24 m²	14501.56 ft
FSR AREA - PODIUM RESIDENT 6 RESIDENTIAL CIRCULATION	306.32 m²	3297.22 ft
	·	3297.22 f 1821.82 f
6 RESIDENTIAL CIRCULATION	306.32 m ² 169.25 m ² 475.57 m ²	3297.22 f 1821.82 f 5119.04 f
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION	306.32 m ² 169.25 m ² 475.57 m ² RE (MARKET HA	3297.22 ft 1821.82 ft 5119.04 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI	306.32 m ² 169.25 m ² 475.57 m ² RE (MARKET HA	3297.22 f 1821.82 f 5119.04 f ALL LEVEL)
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI	306.32 m² 169.25 m² 475.57 m² RE (MARKET HJ 16.98 m² 16.98 m²	3297.22 f 1821.82 f 5119.04 f ALL LEVEL) 182.76 f 182.76 f
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION	306.32 m² 169.25 m² 475.57 m² RE (MARKET HJ 16.98 m² 16.98 m²	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft L LEVEL)
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE	306.32 m² 169.25 m² 475.57 m² RE (MARKET H) 16.98 m² 16.98 m² (MARKET HAL	3297.22 f 1821.82 f 5119.04 f ALL LEVEL) 182.76 f 182.76 f L LEVEL)
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE	306.32 m² 169.25 m² 475.57 m² RE (MARKET H) 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m²	3297.22 f 1821.82 f 5119.04 f ALL LEVEL) 182.76 f 182.76 f L LEVEL) 175.34 f
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION	306.32 m² 169.25 m² 475.57 m² RE (MARKET H) 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m²	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft L LEVEL) 175.34 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION FSR AREA - PODIUM BIKE PARK	306.32 m² 169.25 m² 475.57 m² RE (MARKET H) 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m²	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft L LEVEL) 175.34 ft 175.34 ft 4ALL LEVEL) 2866.59 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION FSR AREA - PODIUM BIKE PARK P PARKADE CIRCULATION P PARKADE CIRCULATION	306.32 m² 169.25 m² 475.57 m² RE (MARKET H/ 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m² 16.29 m² 266.31 m² 221.07 m²	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft 175.34 ft 175.34 ft 2866.59 ft 2379.55 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION FSR AREA - PODIUM BIKE PARK P PARKADE CIRCULATION	306.32 m² 169.25 m² 475.57 m² RE (MARKET H) 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m² 16.31 m²	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft 175.34 ft 175.34 ft 2866.59 ft 2379.55 ft 625.05 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION FSR AREA - PODIUM BIKE PARK P PARKADE CIRCULATION P PARKADE CIRCULATION	306.32 m² 169.25 m² 475.57 m² RE (MARKET H/ 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m² 266.31 m² 221.07 m² 58.07 m² 545.45 m² IM PUBLIC (MA	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft 175.34 ft 175.34 ft 2866.59 ft 2379.55 ft 625.05 ft 5871.18 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION FSR AREA - PODIUM BIKE PARK P PARKADE CIRCULATION P PARKADE CIRCULATION P PARKADE CIRCULATION FSR AREA EXCLUSION - PODIL	306.32 m² 169.25 m² 475.57 m² RE (MARKET H/ 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m² 266.31 m² 221.07 m² 58.07 m² 545.45 m² IM PUBLIC (MA	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft 175.34 ft 175.34 ft 2866.59 ft 2379.55 ft 625.05 ft 5871.18 ft
6 RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION 8N RESIDENTIAL CIRCULATION FSR AREA - PODIUM CHILDCAI P CHILDCARE CIRCULATION FSR AREA - PODIUM OFFICE P OFFICE CIRCULATION FSR AREA - PODIUM BIKE PARK P PARKADE CIRCULATION P PARKADE CIRCULATION P PARKADE CIRCULATION FSR AREA EXCLUSION - PODIL LEVEI	306.32 m² 169.25 m² 475.57 m² RE (MARKET H/ 16.98 m² 16.98 m² (MARKET HAL 16.29 m² 16.29 m² 266.31 m² 221.07 m² 58.07 m² 545.45 m² IM PUBLIC (MA	3297.22 ft 1821.82 ft 5119.04 ft ALL LEVEL) 182.76 ft 182.76 ft 175.34 ft 175.34 ft 2866.59 ft 2379.55 ft 625.05 ft 5871.18 ft



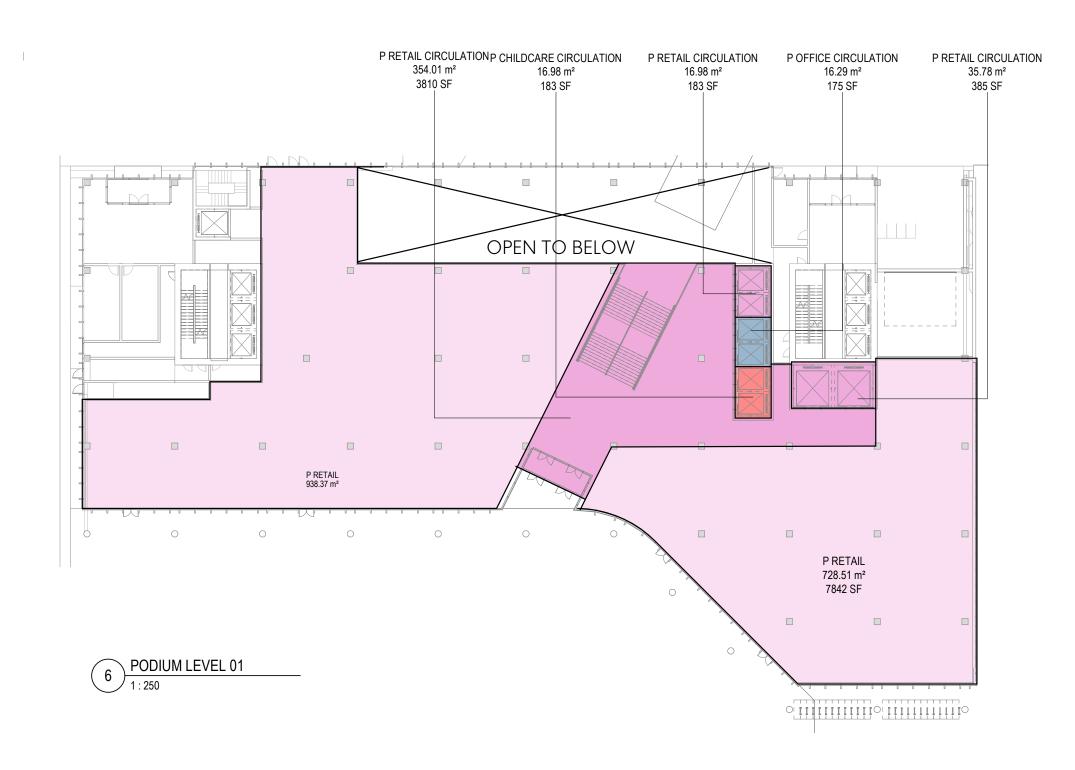






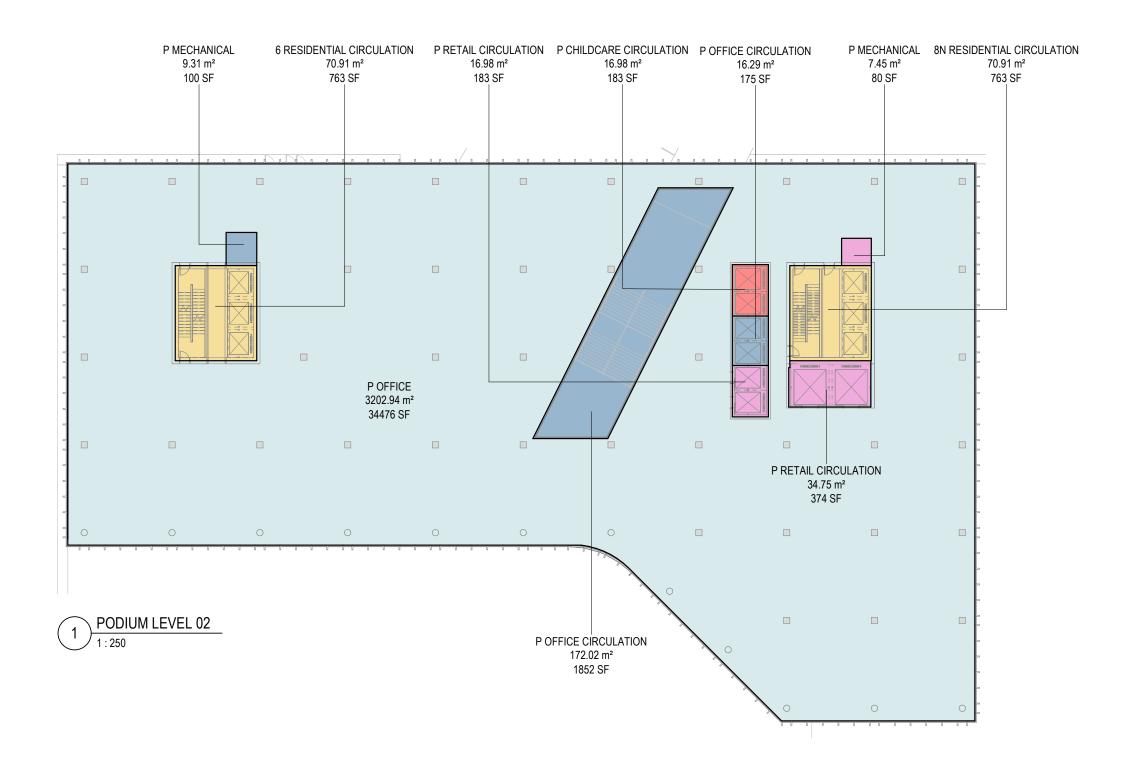
Lots 6 & 8N Podium Level 01

GFA SUMMARY - PODIUM LEVEL 1				
CHILDCARE CIRCULATION	16.98 m²	182.76 ft²		
OFFICE CIRCULATION	16.29 m²	175.34 ft²		
RETAIL	1666.88 m²	17942.16 ft²		
RETAIL CIRCULATION	406.77 m²	4378.38 ft ²		
	2106.92 m²	22678.65 ft ²		
FSR AREA - PODIUM RETAIL (LEVEL 01)				
P RETAIL	938.37 m²	10101 ft²		
P RETAIL	728.51 m ²	7842 ft²		
P RETAIL CIRCULATION	354.01 m ²	3810 ft²		
P RETAIL CIRCULATION	35.78 m ²	385 ft²		
P RETAIL CIRCULATION	16.98 m²	183 ft²		
	2073.65 m ²	22321 ft²		
FSR AREA - PODIU	FSR AREA - PODIUM CHILDCARE (LEVEL 01)			
P OFFICE CIRCULATION	16.29 m²	175 ft²		
	16.29 m²	175 ft²		
FSR AREA - PODIUM OFFICE (LEVEL 01)				
P OFFICE CIRCULATION	16.29 m²	175 ft²		
	16.29 m²	175 ft²		



Lots 6 & 8N Podium - Level 02

GFA SUMMARY - PODIUM LEVEL 2				
CHILDCARE CIRCULATION		16.98 m²	182.76 ft²	
OFFICE	Г	3202.94 m²	34476.13 ft ²	
OFFICE CIRCULATION		197.62 m²	2127.16 ft²	
RESIDENTIAL CIRCULATION		141.82 m²	1526.51 ft²	
RETAIL CIRCULATION		59.19 m²	637.08 ft ²	
		3618.54 m²	38949.64 ft ²	
FSR AREA - PODIUM RETAIL (LEVEL 02)				
P RETAIL CIRCULATION	34	.75 m²	374 ft²	
P MECHANICAL	7.4	5 m²	80 ft ²	
P RETAIL CIRCULATION	16	.98 m²	183 ft²	
	59	19 m²	637 ft²	
FSR AREA - PODIUM RESIDENTIAL (LEVEL 02) 6 RESIDENTIAL CIRCULATION 70.91 m² 763 ft²				
8N RESIDENTIAL CIRCULATION	NC	70.91 m²	763 ft²	
		141.82 m²	1527 ft²	
FSR AREA - PODIUM CHILDCARE (LEVEL 02) P CHILDCARE CIRCULATION 16.98 m² 183 ft² 16.98 m² 183 ft²				
	16	.98 m²	183 ft²	
FSR AREA - PODIL	JM (OFFICE (LEVE	L 02)	
P OFFICE	JM (OFFICE (LEVE	EL 02)	
	JM (OFFICE (LEVE	L 02)	

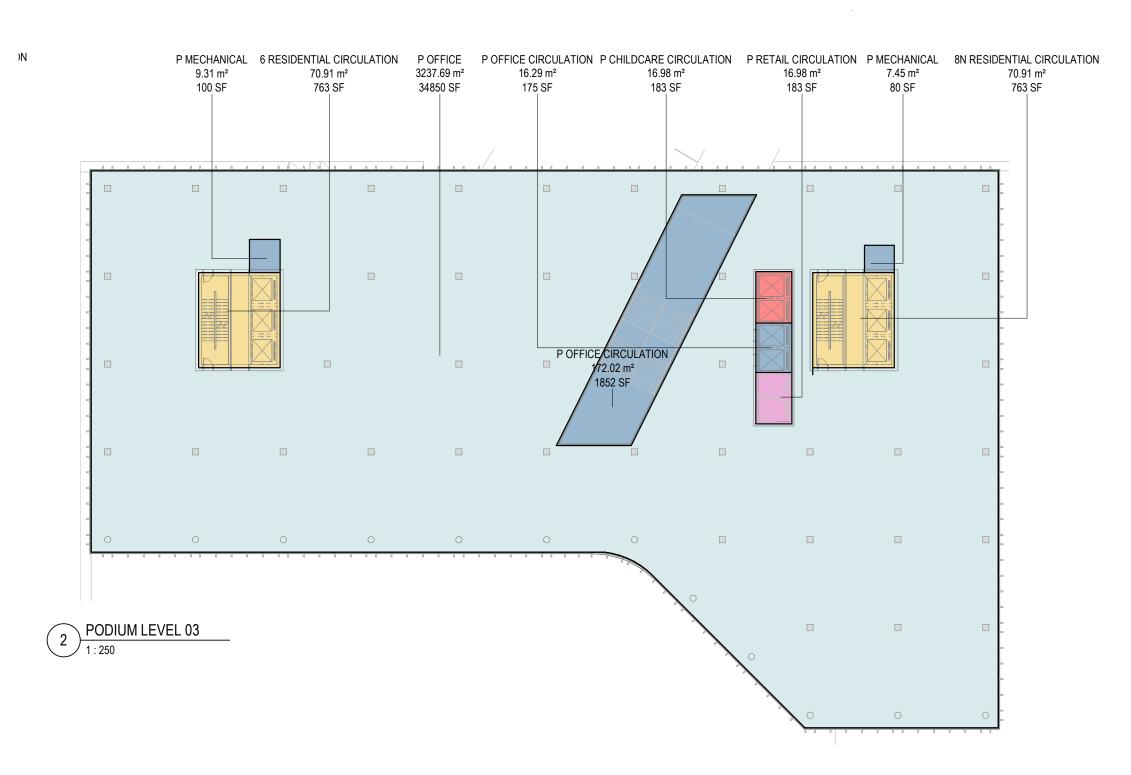






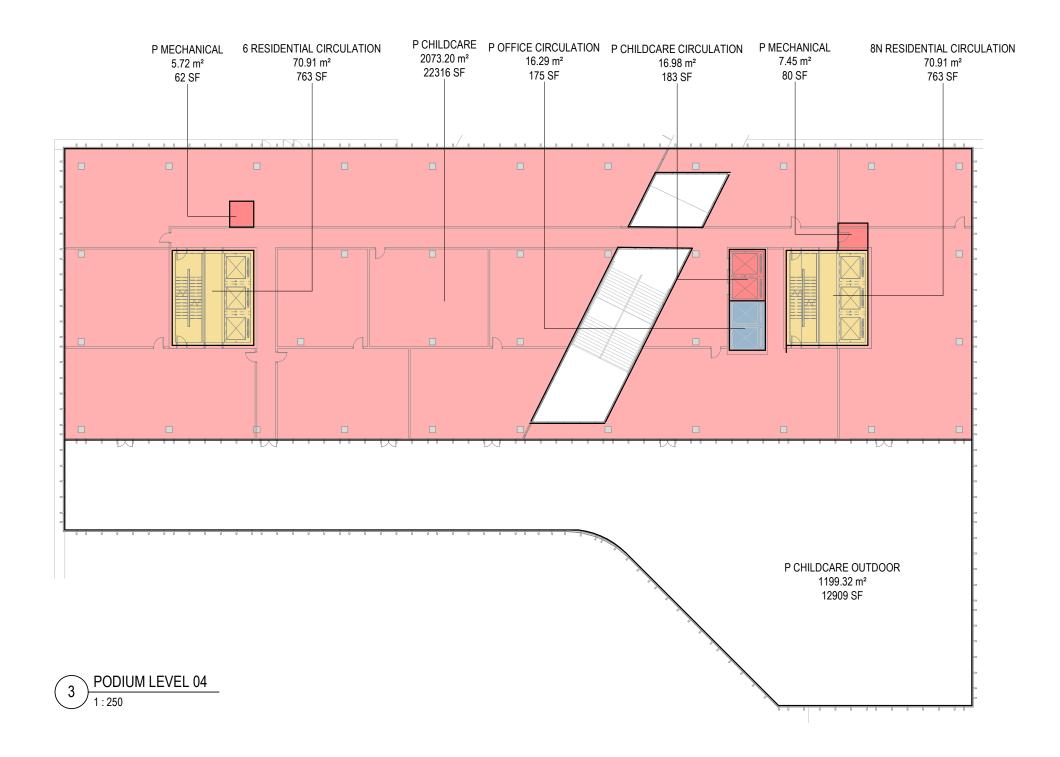
Lots 6 & 8N Podium Level 03

GFA SUMMARY	′ - PO	DIUM LEVEL	3	
CHILDCARE CIRCULATION		16.98 m²		182.76 ft
OFFICE		3237.69 m²		34850.20 ft
OFFICE CIRCULATION		16.77 m²		180.50 ft
OFFICE CIRCULATION		188.31 m ²		2026.90 ft
RESIDENTIAL CIRCULATION		141.82 m²		1526.51 ft
RETAIL CIRCULATION		16.98 m²		182.76 ft
TOTAL GROSS FLOOR AREA		3618.54 m²		38949.64 ft
FSR AREA - PODIUM RETAIL (LEVEL 03)				
P RETAIL CIRCULATION	16.9	8 m²	1	83 ft²
	16.9	8 m²	1	83 ft²
6 RESIDENTIAL CIRCULATIO 8N RESIDENTIAL CIRCULATION		70.91 m² 70.91 m²		763 ft² 763 ft²
8N RESIDENTIAL CIRCULATION	ON	70.91 m ² 141.82 m ²		763 ft² 1527 ft²
FSR AREA - PODIUM CHILDCARE (LEVEL 03) P CHILDCARE CIRCULATION 16.98 m² 183 ft² 16.98 m² 183 ft²				
FSR AREA - PODIUM OFFICE (LEVEL 03)				3)
P OFFICE	323	7.69 m²	3	4850 ft²
P OFFICE CIRCULATION	16.2	9 m²	1	75 ft²
P MECHANICAL	9.31	m²	1	00 ft²
P MECHANICAL	7.45	m²	8	O ft²
P OFFICE CIRCULATION	172.	02 m²	1	852 ft²
	3442	2.76 m²	3	7058 ft ²



Lots 6 & 8N Podium - Level 04

GFA SUMMARY - PODIUM LEVEL 4					
CHILDCARE		2073.20 m²	22315.71 ft²		
CHILDCARE CIRCULATION		30.16 m ²	324.59 ft ²		
OFFICE CIRCULATION		16.29 m²	175.34 ft²		
RESIDENTIAL CIRCULATION		141.82 m²	1526.51 ft²		
TOTAL GROSS FLOOR AREA		2261.46 m ²	24342.15 ft²		
FSR AREA - PODIUM	FSR AREA - PODIUM CHILDCARE (LEVEL 04)				
P CHILDCARE	2073	3.20 m²	22316 ft ²		
P CHILDCARE CIRCULATION	16.9	8 m²	183 ft²		
	2090).18 m²	22498 ft²		
FSR AREA - PODIUM RESIDENTIAL (LEVEL 04)					
6 RESIDENTIAL CIRCULATION	١	70.91 m²	763 ft ²		
8N RESIDENTIAL CIRCULATION	N	70.91 m²	763 ft ²		
		141.82 m²	1527 ft ²		
FSR AREA - PODIUM OFFICE (LEVEL 04)					
P OFFICE CIRCULATION	16.2	9 m²	175 ft²		
	16.29 m²		175 ft²		
NON GFA - PODIUM CHILDO	ARE 05)	OUTDOOR SE	PACE (LEVEL		
P CHILDCARE OUTDOOR	1199	9.32 m²	12909 ft²		
	1199	9.32 m²	12909 ft²		

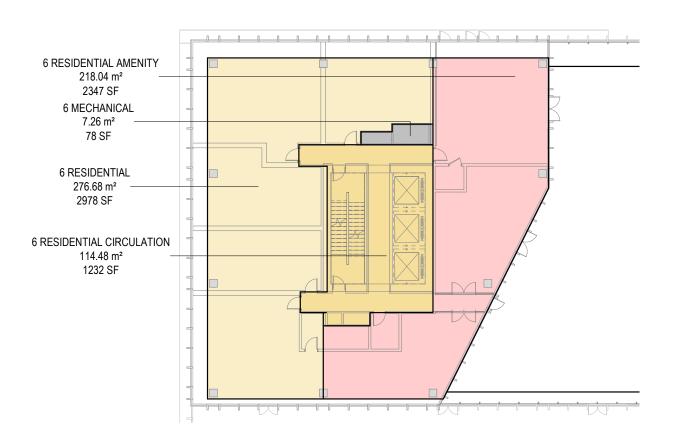


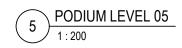




Lot 6 - Level 05

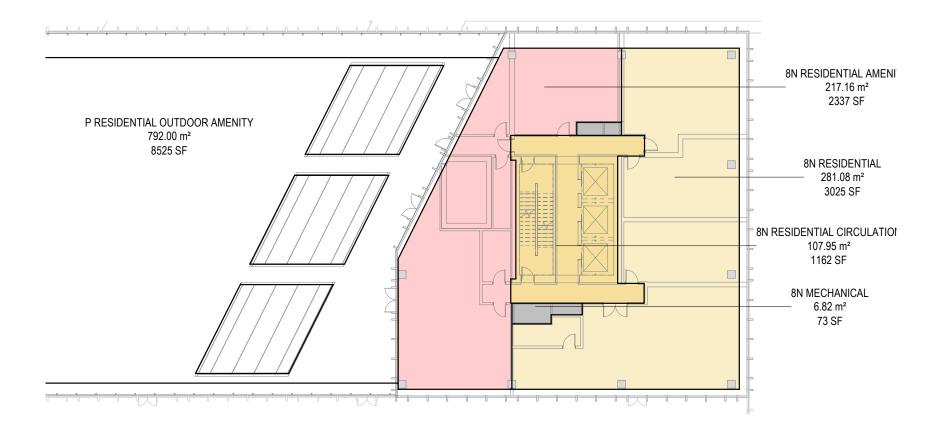
GFA SUMMARY - LOT 6 LEVEL 05					
MECHANICAL	7.26 m ²	78 ft²			
RESIDENTIAL	276.68 m ²	2978 ft²			
RESIDENTIAL RESIDENTIAL CIRCULATION	114.48 m ²	1232 ft²			
RESIDENTIAL CIRCULATION					
398.43 m ² 4289 ft ² FSR EXCLUSION					
RESIDENTIAL AMENITY	218.04 m ²	2347 ft ²			
	218.04 m²	2347 ft²			
	616.47 m ²	6636 ft ²			
RESIDENTIAL	276.68 m²	2978 ft²			
FSR AREA - LOT 6 RE	SIDENITAL (LE	EVEL US)			
RESIDENTIAL CIRCULATION	114.48 m²	1232 ft²			
TESTE ETTE STROOM TOTAL	391.16 m ²	4210 ft²			
FSR AREA - LOT 6 MECHANICAL (LEVEL 05)					
MECHANICAL	7.26 m²	78 ft²			
	7.26 m ²	78 ft²			
FSR AREA - LOT 6 AMENITY EXCLUSION (LEVEL 05)					
RESIDENTIAL AMENITY	218.04 m ²	2347 ft ²			
	218.04 m ²	2347 ft²			





Lot 8N - Level 05

GFA SUMMARY - LOT 8N LEVEL 05				
MECHANICAL	10.28 m²	111 ft²		
RESIDENTIAL	281.08 m ²	3025 ft ²		
RESIDENTIAL CIRCULATION	107.95 m ²	1162 ft²		
	399.31 m ²	4298 ft ²		
FSR EXCLUSION				
RESIDENTIAL AMENITY	217.16 m ²	2337 ft²		
	217.16 m²	2337 ft²		
	616.47 m ²	6636 ft ²		
RESIDENTIAL CIRCULATION	107.95 m ² 389.02 m ²			
FSR AREA - LOT 8N MECH	IANICAL (LEVE	L US) Copy 1		
MECHANICAL	6.82 m ²	73 ft²		
MECHANICAL	3.46 m ²	37 ft²		
	10.28 m²	111 ft²		
FSR AREA - LOT 8N AMENITY	FSR AREA - LOT 8N AMENITY EXCLUSION (LEVEL 05) Copy 1			
RESIDENTIAL AMENITY	217.16 m²	2337 ft²		
	217.16 m ²	2337 ft²		

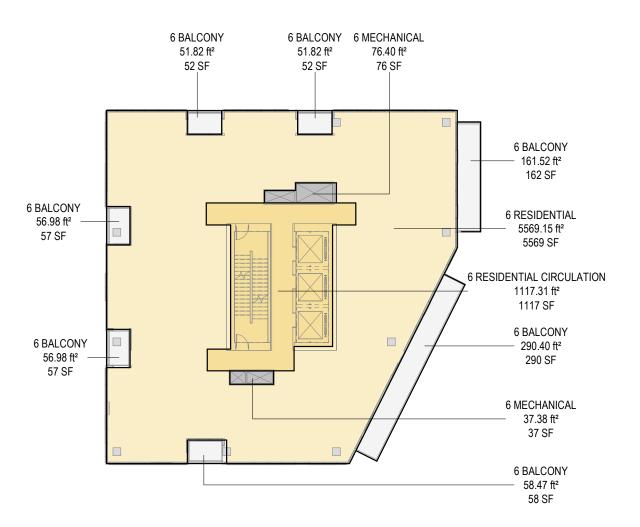






Lot 6 - Level 08

GFA SUMMARY - LOT 6 TYP RESI FLOOR			
MECHANICAL	10.57 m²	114 ft²	
RESIDENTIAL	517.39 m ²	5569 ft ²	
RESIDENTIAL CIRCULATION	103.80 m ²	1117 ft²	
	631.76 m ²	6800 ft ²	
FSR AREA - LOT 6 RESIDENITAL (TYP RESI FLOOR)			
RESIDENTIAL	517.39 m²	5569 ft²	
RESIDENTIAL CIRCULATION	103.80 m²	1117 ft²	
	621.19 m²	6686 ft²	
MECHANICAL	3.47 m²	37 ft²	
MEGUANICAL	0.472	27.62	
MECHANICAL			
	7.10 m ²	76 ft²	
	7.10 m ² 10.57 m ²	76 ft² 114 ft²	
NON GFA - LOT 6 B	10.57 m²	114 ft²	
	10.57 m²	114 ft² RESI) 52 ft²	
NON GFA - LOT 6 B	10.57 m² ALCONY (TYP	114 ft²	
NON GFA - LOT 6 B	10.57 m² ALCONY (TYP 4.81 m²	114 ft² RESI) 52 ft²	
NON GFA - LOT 6 B BALCONY - OPEN BALCONY - OPEN	10.57 m ² ALCONY (TYP) 4.81 m ² 5.29 m ²	114 ft² RESI) 52 ft² 57 ft²	
NON GFA - LOT 6 B BALCONY - OPEN BALCONY - OPEN BALCONY - OPEN	10.57 m ² ALCONY (TYP) 4.81 m ² 5.29 m ² 4.81 m ²	114 ft² RESI) 52 ft² 57 ft² 52 ft²	
NON GFA - LOT 6 B BALCONY - OPEN BALCONY - OPEN BALCONY - OPEN BALCONY - OPEN	10.57 m ² ALCONY (TYP) 4.81 m ² 5.29 m ² 4.81 m ² 15.01 m ²	114 ft² RESI) 52 ft² 57 ft² 52 ft² 162 ft²	
NON GFA - LOT 6 B BALCONY - OPEN	10.57 m ² ALCONY (TYP) 4.81 m ² 5.29 m ² 4.81 m ² 15.01 m ² 26.98 m ²	114 ft² RESI) 52 ft² 57 ft² 52 ft² 162 ft² 290 ft²	

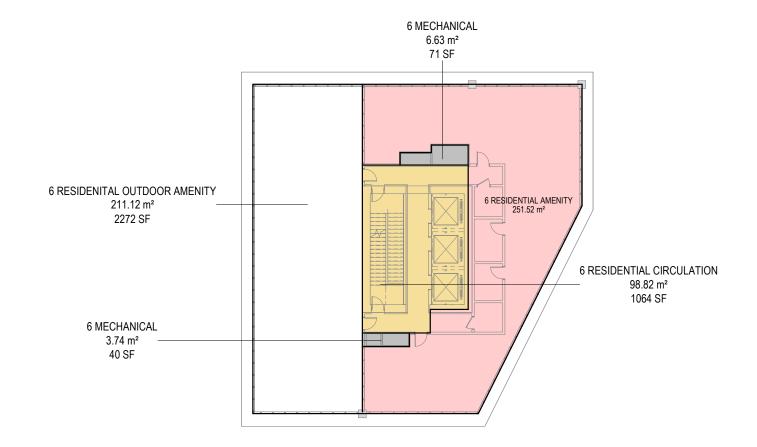


7 6 LEVEL 08 1:200

E MECHANICAI

Lot 6 - Tower Roof

GFA SUMMARY - LOT 6 ROOF			
MECHANICAL	10.37 m²	112 ft²	
RESIDENTIAL CIRCULATION	98.82 m ²	1064 ft ²	
RESIDENTIAL CINCOLATION	109.20 m²	1175 ft²	
FSR EXCLUSION	103.20111	117510	
RESIDENTIAL AMENITY	251.52 m²	2707 ft²	
TREOIDEITH RETURNET	251.52 m²		
	360.72 m ²	3883 ft²	
	0002	3333 K	
FSR AREA - LOT 6 RESIDENITAL (ROOF)			
RESIDENTIAL CIRCULATION	98.82 m²	1064 ft²	
	98.82 m²	1064 ft²	
FSR AREA - LOT 6		ROOF)	
FSR AREA - LOT 6		ROOF) 71 ft ²	
	MECHANICAL (F	, ,	
MECHANICAL	MECHANICAL (F	71 ft²	
MECHANICAL	MECHANICAL (F 6.63 m² 3.74 m² 10.37 m²	71 ft² 40 ft² 112 ft²	
MECHANICAL MECHANICAL	MECHANICAL (F 6.63 m² 3.74 m² 10.37 m²	71 ft² 40 ft² 112 ft²	
MECHANICAL MECHANICAL FSR AREA - LOT 6 AME	MECHANICAL (F	71 ft ² 40 ft ² 112 ft ²	
MECHANICAL MECHANICAL FSR AREA - LOT 6 AME	MECHANICAL (F	71 ft ² 40 ft ² 112 ft ² N (ROOF) 2707 ft ² 2707 ft ²	
MECHANICAL MECHANICAL FSR AREA - LOT 6 AME RESIDENTIAL AMENITY	6.63 m² 3.74 m² 10.37 m²	71 ft ² 40 ft ² 112 ft ² N (ROOF) 2707 ft ² 2707 ft ² (ROOF)	

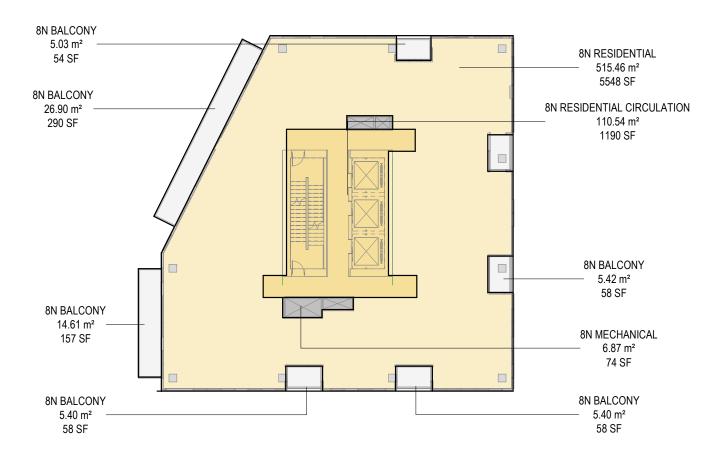






Lot 8N - Level 08

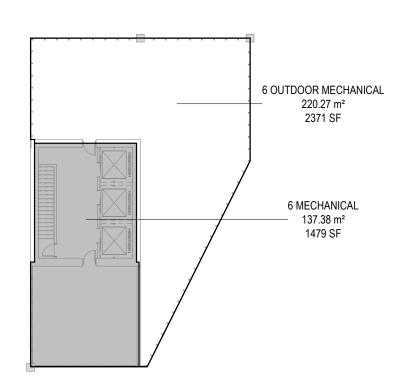
GFA SUMMARY - LOT 8N TYP RESI FLOOR			
MECHANICAL	10.50 m ²	113 ft²	
RESIDENTIAL	515.46 m ²	5548 ft²	
RESIDENTIAL CIRCULATION	110.54 m ²	1190 ft²	
	636.49 m²	6851 ft²	
FSR AREA - LOT 8N RESIDENITAL (TYP RESI FLOOR) Copy			
RESIDENTIAL	515.46 m²	5548 ft²	
RESIDENTIAL CIRCULATION	110.54 m²	1190 ft²	
	625.99 m ²	6738 ft²	
		. =	
FSR AREA - LOT 8N MECHANI	· · · · · · · · · · · · · · · · · · ·		
MECHANICAL	6.87 m²	74 ft²	
	· · · · · · · · · · · · · · · · · · ·		
MECHANICAL	6.87 m ² 3.63 m ² 10.50 m ²	74 ft² 39 ft² 113 ft²	
MECHANICAL MECHANICAL	6.87 m ² 3.63 m ² 10.50 m ²	74 ft² 39 ft² 113 ft²	
MECHANICAL MECHANICAL NON GFA - LOT 8N I	6.87 m² 3.63 m² 10.50 m²	74 ft² 39 ft² 113 ft²	
MECHANICAL MECHANICAL NON GFA - LOT 8N I BALCONY - OPEN	6.87 m ² 3.63 m ² 10.50 m ² BALCONY (TYP)	74 ft² 39 ft² 113 ft² PRESI) 290 ft²	
MECHANICAL MECHANICAL NON GFA - LOT 8N I BALCONY - OPEN BALCONY - OPEN	6.87 m ² 3.63 m ² 10.50 m ² BALCONY (TYP) 26.90 m ² 14.61 m ²	74 ft ² 39 ft ² 113 ft ² PRESI) 290 ft ² 157 ft ²	
MECHANICAL MECHANICAL NON GFA - LOT 8N I BALCONY - OPEN BALCONY - OPEN BALCONY - OPEN	6.87 m ² 3.63 m ² 10.50 m ² 26.90 m ² 14.61 m ² 5.40 m ²	74 ft² 39 ft² 113 ft² P RESI) 290 ft² 157 ft² 58 ft²	
MECHANICAL MECHANICAL NON GFA - LOT 8N I BALCONY - OPEN	6.87 m ² 3.63 m ² 10.50 m ² BALCONY (TYP) 26.90 m ² 14.61 m ² 5.40 m ² 5.42 m ²	74 ft² 39 ft² 113 ft² PRESI) 290 ft² 157 ft² 58 ft² 58 ft²	
MECHANICAL MECHANICAL NON GFA - LOT 8N II BALCONY - OPEN BALCONY - OPEN	6.87 m ² 3.63 m ² 10.50 m ² 3ALCONY (TYP) 26.90 m ² 14.61 m ² 5.40 m ² 5.42 m ² 5.03 m ²	74 ft² 39 ft² 113 ft² PRESI) 290 ft² 157 ft² 58 ft² 58 ft² 54 ft²	





Lot 6 - Mech Penthouse

GFA SUMMARY - LOT 6 MECH PENTHOUSE					
OUTDOOR MECHANICAL	220.27 m²	2371 ft²			
	220.27 m²	2371 ft²			
FSR AREA - LOT 6 MECH	FSR AREA - LOT 6 MECHANICAL (MECH PENTHOUSE)				
MECHANICAL	137.38 m²	1479 ft²			
	137.38 m²	1479 ft²			
NON GFA - LOT 6 OUTDOOR SPACE (MECH PENTHOUSE)					
OUTDOOR MECHANICAL	220.27 m²	2371 ft²			
	220.27 m ²	2371 ft²			



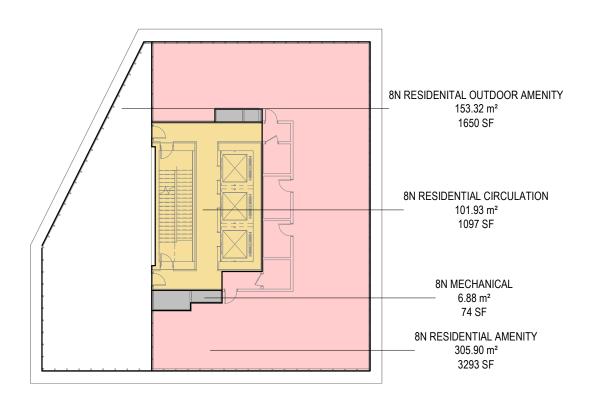
1 6 MECH PH





Lot 8N - Tower Roof

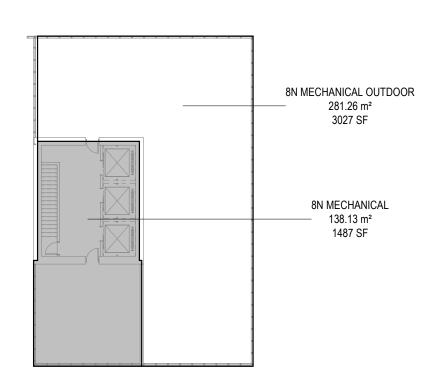
GFA SUMMAR	Y - LOT 8N RO	OF
MECHANICAL	10.52 m²	113 ft²
RESIDENTIAL CIRCULATION	101.93 m²	1097 ft ²
	112.45 m²	1210 ft²
FSR EXCLUSION		
RESIDENTIAL AMENITY	305.90 m ²	3293 ft ²
	305.90 m ²	3293 ft ²
	418.36 m²	4503 ft ²
FSR AREA - LOT 8N	RESIDENITAL	. (ROOF)
RESIDENTIAL CIRCULATION	101.93 m²	1097 ft²
	101.93 m²	1097 ft²
FSR AREA - LOT 8N	MECHANICAL	(ROOF)
FSR AREA - LOT 8N	MECHANICAL	(ROOF)
		, ,
MECHANICAL	6.88 m²	74 ft²
MECHANICAL	6.88 m ² 3.64 m ² 10.52 m ²	74 ft² 39 ft² 113 ft²
MECHANICAL MECHANICAL	6.88 m ² 3.64 m ² 10.52 m ²	74 ft² 39 ft² 113 ft²
MECHANICAL MECHANICAL FSR AREA - LOT 8N AMENIT	6.88 m ² 3.64 m ² 10.52 m ²	74 ft ² 39 ft ² 113 ft ²
MECHANICAL MECHANICAL FSR AREA - LOT 8N AMENIT	6.88 m ² 3.64 m ² 10.52 m ²	74 ft ² 39 ft ² 113 ft ² 1 (ROOF) Copy 1 3293 ft ² 3293 ft ²
MECHANICAL MECHANICAL FSR AREA - LOT 8N AMENIT RESIDENTIAL AMENITY	6.88 m ² 3.64 m ² 10.52 m ² TY EXCLUSION 305.90 m ² JTDOOR SPAC	74 ft ² 39 ft ² 113 ft ² I (ROOF) Copy 1 3293 ft ² 3293 ft ² 3293 ft ²





Lot 8N - Mech Penthouse

GFA SUMMARY - LOT 8N MECH PENTHOUSE			
OUTDOOR MECHANICAL	281.26 m²	3027 ft ²	
	281.26 m²	3027 ft ²	
FSR AREA - LOT 8N MECHANICAL (MECH PENTHOUSE)			
MECHANICAL	138.13 m²	1487 ft²	
	138.13 m²	1487 ft²	
NON GFA - LOT 8N OUTDOOR SPACE (MECH PENTHOUSE)			
OUTDOOR MECHANICAL	281.26 m ²	3027 ft²	
	281.26 m ²	3027 ft²	



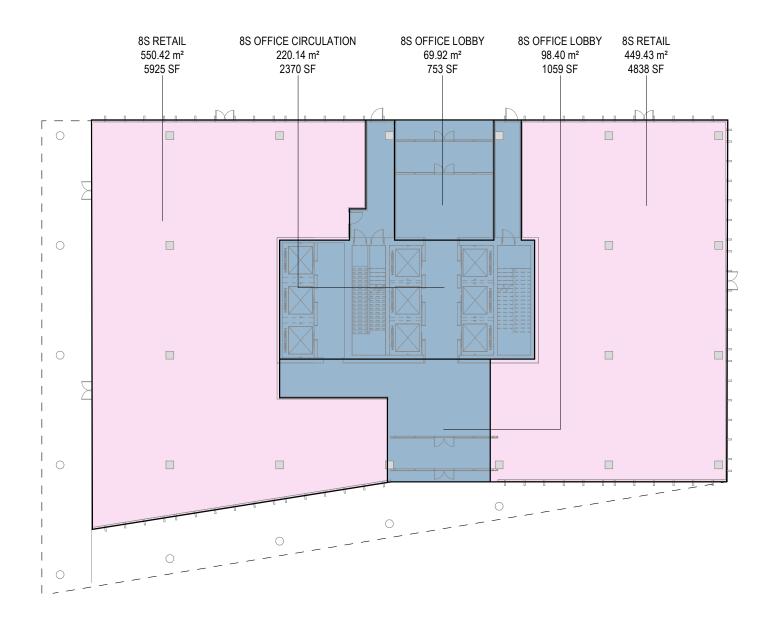
3 8N MECH PH





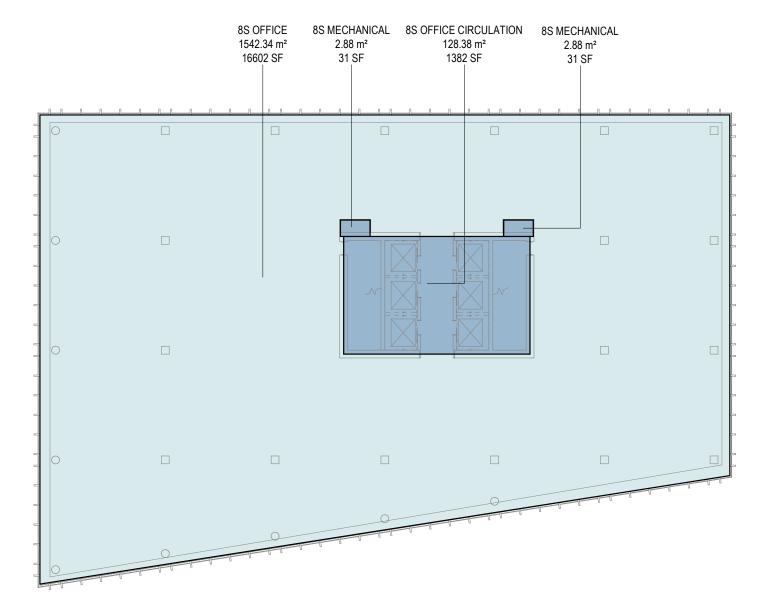
Lot 8S - Ground Level

GFA SUMMARY - LOT 8S LEVEL 01				
Function	GFA GFA Imperial			
OFFICE CIRCULATION	388.46 m ²	4181 ft²		
RETAIL	999.84 m²	10762 ft²		
	1388.30 m²	14944 ft²		
FSR AREA - LOT 8S OFFICE (LEVEL 01)				
8S OFFICE LOBBY	69.92 m²	753 ft²		
8S OFFICE CIRCULATION	V 220.14 m ²	2370 ft ²		
8S OFFICE LOBBY	98.40 m²	1059 ft ²		
	388.46 m²	4181 ft²		
FSR AREA - LOT 8S RETAIL (LEVEL 01)				
8S RETAIL	550.42 m²	5925 ft²		
8S RETAIL	449.43 m²	4838 ft²		
	999.84 m²	10762 ft²		



Lot 8S - Levels 02 to 04

GFA SUMMARY - LOT 8S TYP LOWER OFFICE LEVEL				
OFFICE	1542.26 m ²	16601 ft²		
OFFICE CIRCULATION	134.14 m²	1444 ft²		
	1676.40 m²	18045 ft²		
FSR AREA - LOT 8S OFFICE (LEVEL 02 - 04)				
FSR AREA - LOT 8S OFFICE	8S OFFICE (LEV 1542.26 m²	EL 02 - 04)		
	1542.26 m²			
8S OFFICE	1542.26 m²	16601 ft²		
8S OFFICE 8S OFFICE CIRCULATION	1542.26 m ² 128.38 m ²	16601 ft ² 1382 ft ²		

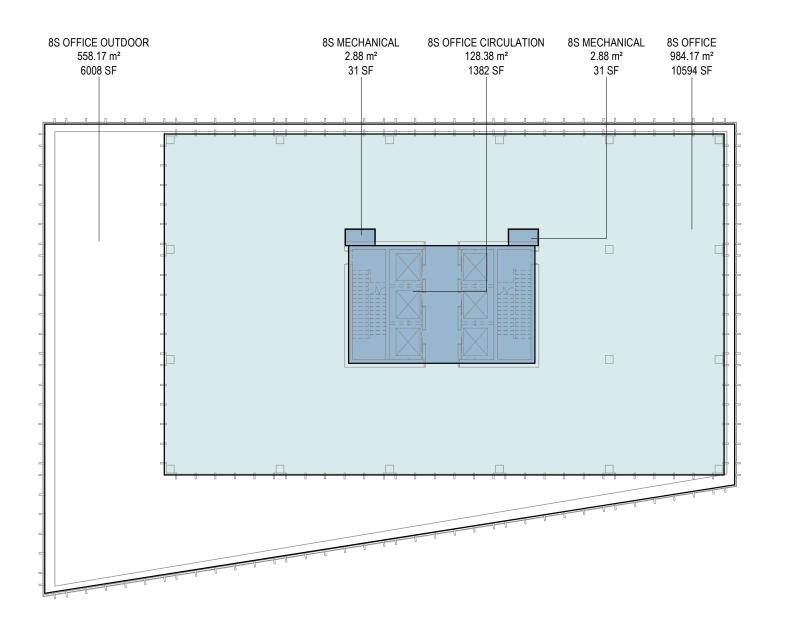






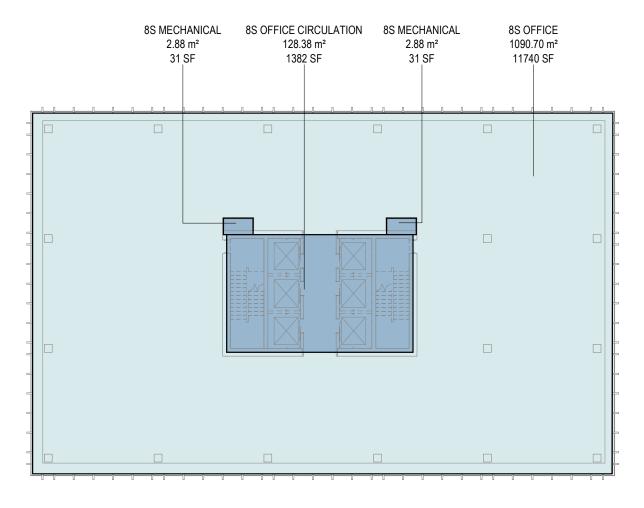
Lot 8S - Level 05

GFA SUMMARY - LOT 8S (LEVEL 05)					
Function	GFA		(GFA Imperial	
OFFICE	984	984.17 m²		10594 ft²	
OFFICE CIRCULATION	134	.14 m²	144	4 ft²	
TOTAL GROSS FLOOR AREA TOWER 6	111	1118.31 m²		12037 ft²	
FSR AREA - LOT 8S OFFICE (LEVEL 05)					
8S OFFICE		984.17 m ²	984.17 m²		
8S OFFICE CIRCULATION	١	128.38 m²		1382 ft²	
8S MECHANICAL		2.88 m ²		31 ft²	
8S MECHANICAL		2.88 m²		31 ft²	
		1118.31 m²		12037 ft²	
NON GFA - LOT 8S OUTDOOR SPACE (LEVEL 05)					
8S OFFICE OUTDOOR		558.17 m²		6008 ft ²	
		558.17 m²		6008 ft ²	



Lot 8S - Levels 05 to 20

GFA SUMMARY - LOT 8S TYP UPPER OFFICE LEVEL				
Function		GFA	GFA Imperial	
OFFICE	1090.70 m ²		11740 ft ²	
OFFICE CIRCULATION	134.14 m²		1444 ft²	
TOTAL GROSS FLOOR AREA TOWER 6	1224.84 m²		13184 ft²	
FSR AREA - LOT 8S OFFICE (LEVEL 06 - 20)				
8S OFFICE		1090.70 m ²		11740 ft ²
8S OFFICE CIRCULATION		128.38 m²		1382 ft²
8S MECHANICAL		2.88 m²		31 ft²
8S MECHANICAL		2.88 m²		31 ft²
		1224.84 m²		13184 ft²

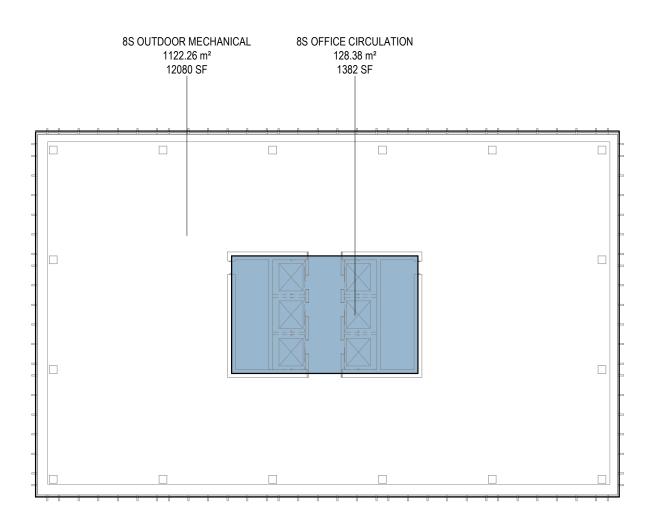






Lot 8S - Level Roof

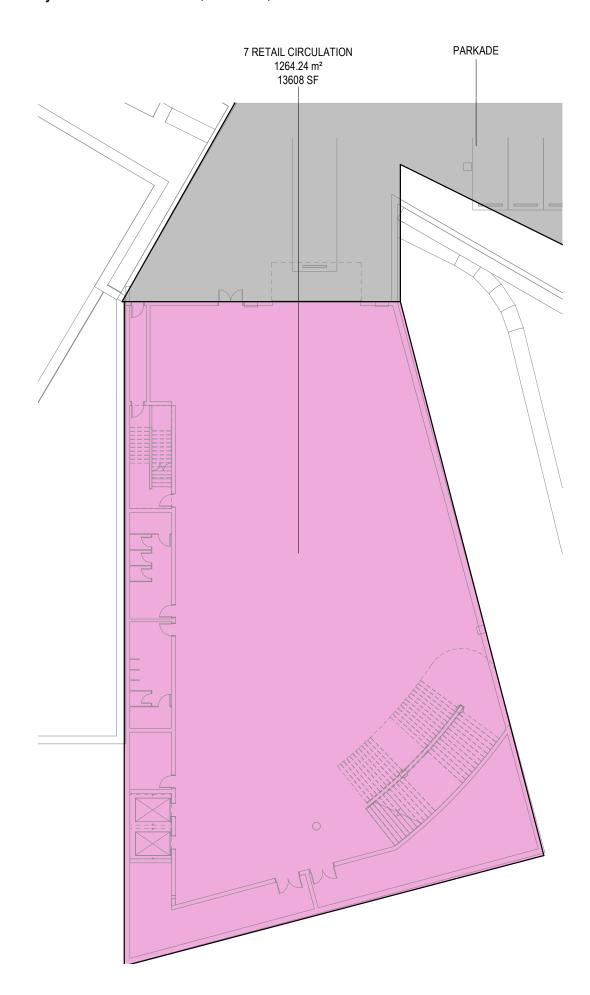
GFA SUMMARY - LOT 8S ROOF					
OFFICE CIRCULATION	128.38 m²		138	1382 ft²	
128.38 m ² 1382 ft ²			2 ft²		
NON GFA - LOT 8S OUTDOOR SPACE (ROOF)					
8S OUTDOOR MECHANIC	AL	1122.26 m ²		12080 ft²	
		1122.26 m²		12080 ft²	





Lot 7 - Level P1

AREA SUMMARY - LOT7 LEVEL P1				
RETAIL CIRCULATION	1264.24 m²	13608.15 ft		
	1264.24 m²	13608.15 ft		
	1264.24 m ²	13608.15 ft		
FOR AREA LOT 7 RETAIL (LEVEL DA)				
FSR AREA - LOT 7 RETAIL (LEVEL P1)				
7 RETAIL CIRCULATION	1264.24 m²	13608.15 ft²		
	1264.24 m²	13608.15 ft²		
•				

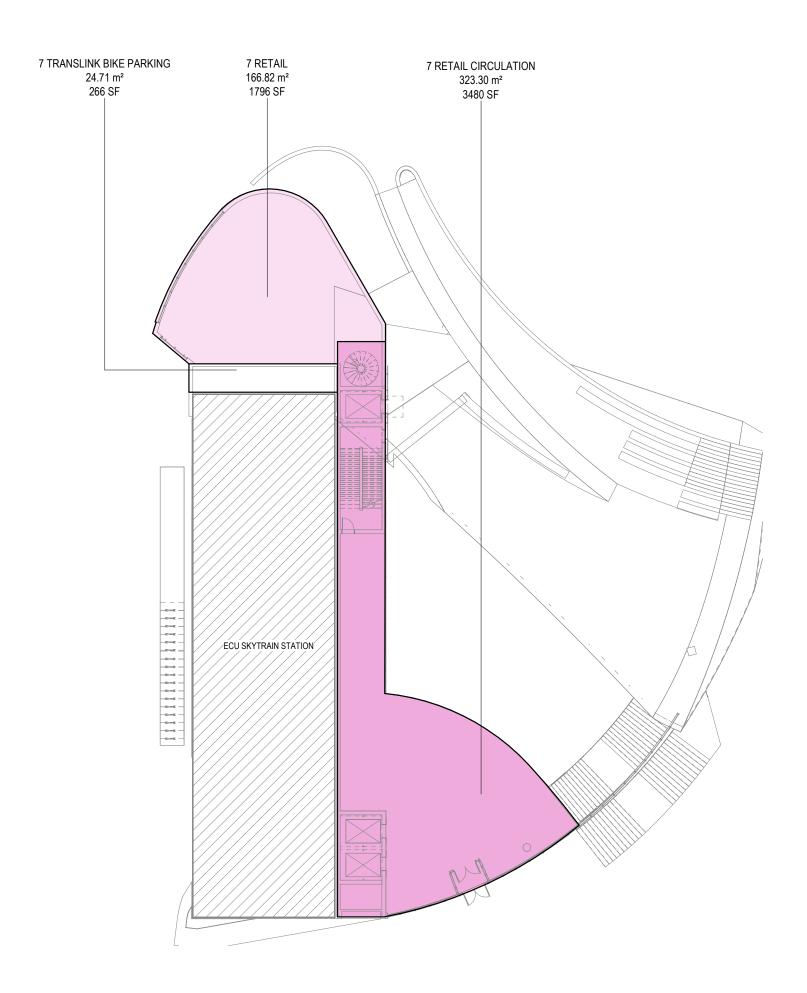






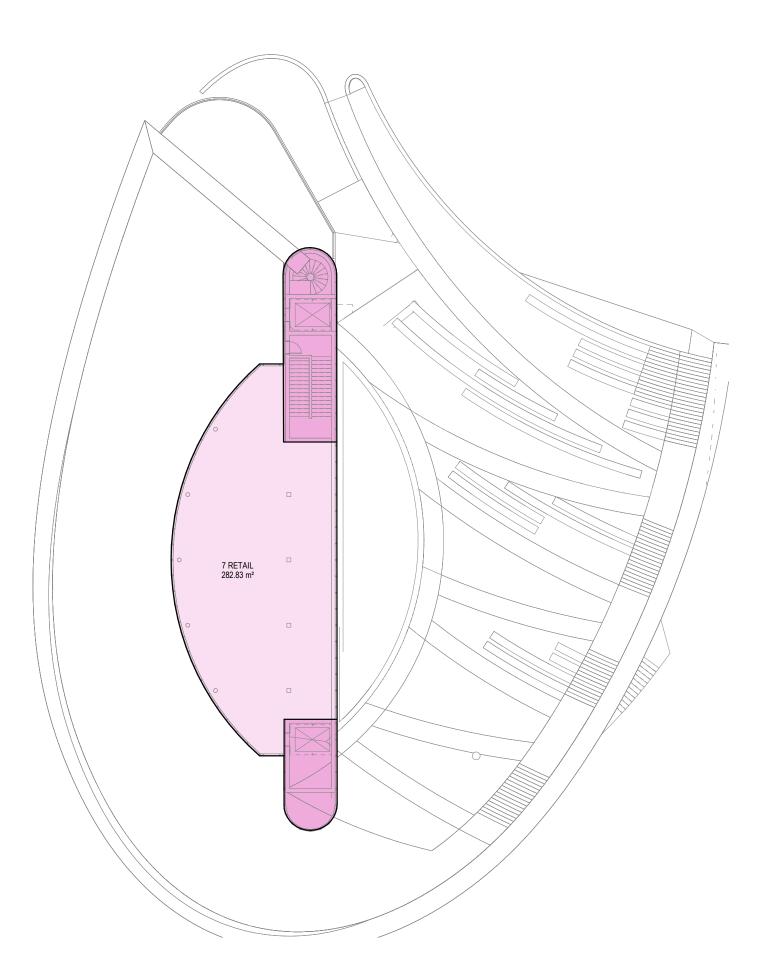
Lot 7 - Level 01

AREA SUMMARY - LOT7 GROUND LEVEL					
ETAIL	166.82 m²	1795.66 ft²			
ETAIL CIRCULATION	323.30 m²	3479.94 ft ²			
	490.12 m²	5275.59 ft ²			
UBLIC	24.71 m²	266.01 ft ²			
SR EXCLUSION	24.71 m²	266.01 ft ²			
	514.83 m ²	5541.61 ft²			
FSR AREA - LOT 7 RETAIL (LEVEL 01)					
RETAIL	166.82 m²	1795.66 ft²			
RETAIL CIRCULATION	323.30 m²	3479.94 ft ²			
	490.12 m²	5275.59 ft ²			



Lot 7 - Roof

AREA SUMMARY - LOT7 LEVEL ROOF					
RETAIL CIRCULATION		91.90 m²	989.21 f		
		91.90 m²	989.21 f		
RETAIL		282.83 m²	3044.39 f		
		282.83 m²	3044.39 f		
TOTAL GROSS FLOOR		07470	4000.00.0		
FSR AREA - LOT 7 RETAIL (ROOF)					
FOR AREA - L	.01 /	NETAIL (NOO	Τ)		
7 RETAIL		282.83 m²	3044.39 ft ²		
7 RETAIL CIRCULATION		59.08 m²	635.97 ft ²		
7 RETAIL CIRCULATION		32.82 m²	353.25 ft ²		
		374.73 m²	4033.60 ft ²		

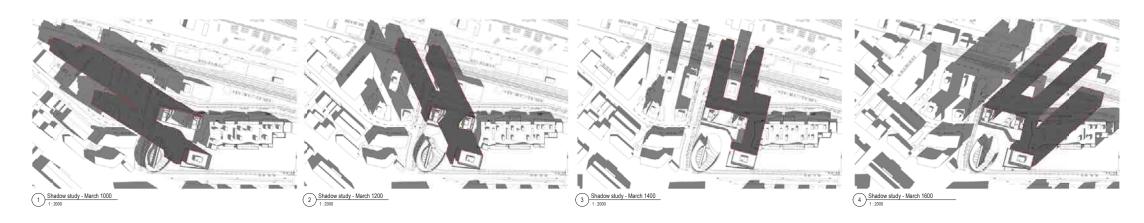




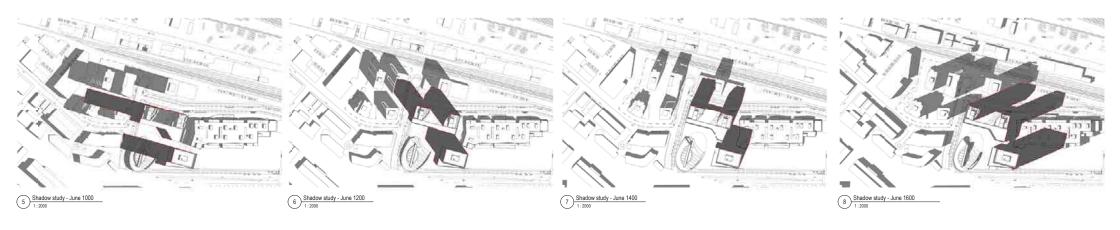


8.8 Shadow Studies

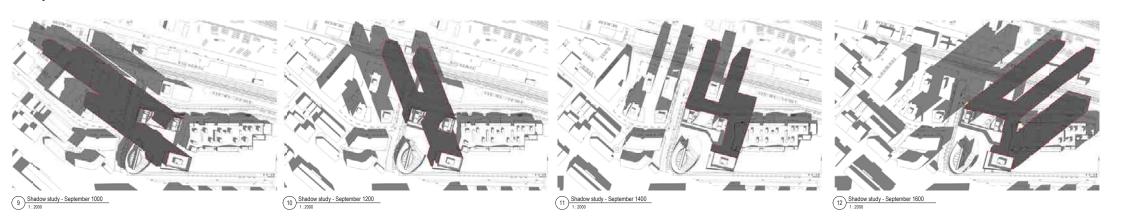
March 21



June 21



September 22





1220 Homer Street Vancouver, British Columbia Canada, V6B 2Y5