

PLANNING \& DEVELOPMENT REPORT Application No.:

Planning Report Date: January 29, 2024

## PROPOSAL:

- OCP Amendment to Figures 3 and 16 from Multiple Residential to Downtown 3.5 FAR
- City Centre Plan Amendment of a portion from Low to Mid Rise Residential to Mid to High Residential and Mid to High Rise Mixed Use
- Rezoning from CHI to CD
- Development Permits for Form and Character, Sensitive Ecosystems, and Hazard Lands
- Development Variance Permit for reduced streamside setbacks
to allow for a phased development consisting of one 21storey mixed-use tower and two residential towers of 24 and 37 -storeys, with a total of 967 residential units and $240 \mathrm{sq} . \mathrm{m}$ of ground floor commercial space in City Centre.

| LOCATION: | 13340 112 Avenue |
| :--- | :--- |
|  | 11151 Bolivar Road |
|  | 13307 King George Boulevard |
| ZONING: | CHI |
| OCP DESIGNATION: | Multiple Residential |
| CITY CENTRE PLAN | Low to Mid Rise Residential and |
| DESIGNATION: | Creek/Top of Bank Buffer |



## RECOMMENDATION SUMMARY

- By-law Introduction and set date for Public Hearing for:
- OCP Amendment; and
- Rezoning.
- Approval to draft Development Permit for Form and Character, Sensitive Ecosystems (Streamside), and Hazard Lands (Steep Slopes).
- Approval for Development Variance Permit to proceed to Public Notification.


## DEVIATION FROM PLANS, POLICIES OR REGULATIONS

- Proposing an amendment to the Official Community Plan from Multiple Residential to Downtown 3.5 FAR to permit a higher density on the site.
- Proposing an amendment to the City Centre Plan from Low to Mid-Rise Residential to Mid to High Rise Residential and Mid to High Rise Mixed Use for a portion of the site.
- Proposing to reduce the streamside setback requirements outlined in Part 7A, Streamside Protection, of the Zoning Bylaw.


## RATIONALE OF RECOMMENDATION

- The current proposal does not comply with the Multiple Residential designation in the Official Community Plan (OCP) or the Low to Mid-Rise Residential designation in the Surrey City Centre Plan. Amendments are proposed to accommodate a higher density.
- The proposed development conforms to the goal of achieving high-rise, high density, and mixed-use development around the three SkyTrain Stations. The Gateway Skytrain Station is less than 700 metres, as the crow flies, from the subject site.
- The provincial legislation introduced in December 2023, designates the site within a Skytrain Station Transit Oriented Area (TOA), Tier 3, which allows for a minimum FAR of 3.0 and a minimum height of 8-storeys.
- The proposed height and density of the subject site is reflective of an evolving urban context in the City Centre and in consideration of the objective to increase housing supply within TOA's.
- The proposed setbacks and built form achieve a more urban, pedestrian streetscape in compliance with the Surrey City Centre Plan and in accordance with the Development Permit (Form and Character) design guidelines in the OCP.
- The proposed building achieves an attractive and unique architectural built form, which utilizes high quality materials and contemporary massing. The street interface has been designed to a high quality to achieve a positive urban experience between the proposed building, Bolivar Creek and the public realm.
- The applicant will provide a density bonus amenity contribution consistent with the Tier 2 Capital Projects Community Amenity Contributions (CACs), in support of the requested increased residential density.
- The applicant is proposing a reduced setback along the east side of Bolivar Creek. This reduced setback will establish a development site that can accommodate building envelopes and densities that are reflective of the goals of an emerging City Centre.
- The watercourse and associated riparian protection area will be conveyed to the City for riparian protection purposes (Lot 3) and contains an area of approximately $5,990 \mathrm{~m}^{2}$. The proposed watercourse protection, restoration, and proposed setbacks balance both riparian protection and development potential on the site while protecting and enhancing an important natural asset in City Centre.


## RECOMMENDATION

The Planning \& Development Department recommends that:

1. A By-law be introduced to amend the OCP Figure 3: General Land Use Designations for the subject site from Multiple Residential to Downtown 3.5 FAR and to Figure 16: Downtown Densities to include the site and a date for Public Hearing be set.
2. Council determine the opportunities for consultation with persons, organizations and authorities that are considered to be affected by the proposed amendment to the Official Community Plan, as described in the Report, to be appropriate to meet the requirement of Section 475 of the Local Government Act.
3. A By-law be introduced to rezone the subject site from "Highway Commercial Industrial Zone (CHI)" to "Comprehensive Development Zone (CD)" and a date be set for Public Hearing.
4. Council authorize staff to draft Development Permit No.7923-o234-oo generally in accordance with the attached drawings (Appendix I) and the finalized Ecosystem Development Plan and Geotechnical Report.
5. Council approve Development Variance Permit No. 7923-0234-oo (Appendix V) varying the following, to proceed to Public Notification:
(a) In Section B. 1 in Part 7A, Stream Protection, the minimum streamside setback distance for a Class A (red-coded) Natural Stream is reduced from 30 metres to a minimum of 19.2 metres, measured from top of bank.
6. Council instruct staff to resolve the following issues prior to final adoption:
(a) ensure that all engineering requirements and issues including restrictive covenants, dedications, and rights-of-way where necessary, are addressed to the satisfaction of the General Manager, Engineering;
(b) submission of a subdivision layout to the satisfaction of the Approving Officer;
(c) approval from the Ministry of Forests, Lands and Natural Resource Operations under the Water Sustainability Act for Class C ditch watercourse classification confirmation;
(d) resolution of all urban design issues to the satisfaction of the Planning and Development Department;
(e) submission of a finalized landscaping plan and landscaping cost estimate to the specifications and satisfaction of the Planning and Development Department;
(f) submission of a finalized tree survey and a statement regarding tree preservation to the satisfaction of the City Landscape Architect;
(g) submission of a finalized Ecosystem Development Plan and Impact Mitigation Plan to the satisfaction of City staff;
(h) the applicant satisfy the requirements for a P-15 agreement, including the construction of the public pathway;
(i) conveyance of riparian protection area, proposed Lot 3, at no cost to the City;
(j) submission of a finalized Geotechnical Report, including a peer review, to the satisfaction of City staff;
(k) the applicant provide a density bonus amenity contribution consistent with the Tier 2 Capital Projects CACs in support of the requested increased density, to the satisfaction of the General Manager, Planning and Development Department;
(l) demolition of existing buildings and structures to the satisfaction of the Planning and Development Department;
(m) submission of a landscape design and financial securities to accommodate design improvements and public accessibility for the City-owned King George Boulevard area adjacent to the site;
(n) registration of access easements to ensure access to the proposed shared parking and amenity facilities within the development and between phases;
(o) submission of an acoustical report for the units adjacent to King George Boulevard registration of a Section 219 Restrictive Covenant to ensure implementation of noise mitigation measures.
(p) registration of a Section 219 Restrictive Covenant to adequately address the City's needs with respect to public art, to the satisfaction of the General Manager Parks, Recreation and Culture and with respect to the City's Affordable Housing Strategy and Tier 1 Capital Project CACs, to the satisfaction of the General Manager, Planning \& Development Services; and
(q) registration of a statutory right-of-way for public rights of passage through site to the future public pathway.
7. Council pass a resolution to amend the Surrey City Centre Plan to redesignate the land from Low to Mid-Rise Residential to Mid to High Rise Residential and Mid to High Rise Mixed-Use for a portion of the site when the project is considered for final adoption.

## SITE CONTEXT \& BACKGROUND

| Direction | Existing Use | OCP/City Centre <br> Plan Designation | Existing Zone |
| :--- | :--- | :--- | :--- |
| Subject Site | Automotive <br> dealership | Low to Mid Rise <br> Residential and <br> Creek/Top of Bank <br> Buffer | CHI |
| North (Across 112 Avenue): | Single family <br> residential homes | Urban in the OCP | RF |
| East (Across Bolivar Road): | Development <br> Application No. <br> $17-$-o397-oo, at <br> Third Reading, <br> proposing 3 high <br> rise buildings (26, <br> 31, and 37 storeys), <br> and single family <br> homes. | Low to Mid Rise <br> Residential and <br> Townhouse | RF <br> (CD Bylaw No. <br> 20o13 at Third <br> Reading) and <br> CD (Bylaw <br> No.15o89) |
| South (Across King George <br> Boulevard): | Skytrain guideway <br> and townhouses <br> with riparian <br> protection area. | High Rise <br> Residential Type 1 | CD (Bylaw No. <br> 15089) |
| West: | Automotive <br> accessory store, <br> Bolivar Creek and <br> creek buffer area. | Low to Mid Rise <br> Residential and <br> Creek Buffer | CHI and RF |

## Context \& Background

- The subject site is located at 13340-112 Avenue, 11151 Bolivar Road and 13307 King George Boulevard in the City Centre Plan. The subject site is approximately 15,854 square metres in size, is currently operating as an automotive dealership, and has Bolivar Creek running along the western portion of the site.
- The subject site is zoned "Highway Commercial Industrial Zone (CHI)" and is designated "Low to Mid Rise Residential" and "Creek/Top of Bank Buffer" in the City Centre Plan and "Multiple Residential" in the Official Community Plan (OCP).
- The applicant has submitted an application for an OCP Amendment, a rezoning from CHI to "Comprehensive Development Zone (CD)", a Development Permit Form and Character, along with a Development Permit for Sensitive Ecosystems and Hazard Lands, and a subdivision, in order to allow for a phased, mixed-use development consisting of three buildings.
- Bolivar Creek, a Class A red-coded watercourse is located along the west portion the subject site. The riparian protection area of approximately 5,900 square metres is proposed to be conveyed to the City for maximum safeguarding.
- A Development Variance Permit is proposed to reduce the setback requirements for Bolivar Creek from 30 metres to a minimum of 19.2 metres from top of bank. The proposed streamside setbacks range between 19.2 metres 34.3 metres across the site.
- Final Water Sustainability Act (WSA) approval is required for the Class C ditch located along Bolivar Road. There are no setbacks anticipated to be required for this ditch.
- Should WSA require streamside setbacks, the applicant will be required to amend the development proposal to reflect these requirements.


## DEVELOPMENT PROPOSAL

## Planning Considerations

- The applicant is proposing:
- to amend the Official Community Plan (Figures 3 and 16) from Multiple Residential to Downtown and to allow for higher density of 3.5 FAR;
- to amend the City Centre Plan from Low to Mid-Rise Residential to Mid to High Rise Residential and Mid to High Rise Mixed-Use for the development portion of the site;
- a Development Variance Permit to reduce the streamside setback requirements outlined in Part 7A, Streamside Protection, of the Zoning Bylaw, from 30 metres to a minimum of 19.2 metres from top of bank along the south portion of the watercourse;
- a Development Permit for the 3 buildings, consisting of one, 21-storey mixed-use building and two residential buildings at 37 and 24 -storeys, respectively;
- a Development Permit Sensitive Ecosystems (Streamside) and Hazard Lands; and
- Subdivision to create 2 development parcels and one parcel to be conveyed to the City for riparian area conservation.

|  |  |
| :--- | :--- |
| Proposed |  |
| Gross Site Area: | 15,854 sq. metres |
| Road Dedication: | 540 sq. metres |
| Undevelopable Area: | 2,578 sq. metres |
| Riparian Protection Area: | 5,948 sq. metres |
| Net Site Area: | 9,366 sq. metres |
| Number of Lots: | Existing: 3 Proposed 3 |
| Building Height: | 21,24 and 37 -storeys |
| Floor Area Ratio (FAR): | Overall gross: 5.0 FAR |
|  |  |
| Floor Area | Overall net: 7.1 FAR |
| Residential: | 66,641 sq.m |
| Commercial: | 240 sq.m |
| Total: | 66,904 sq. m |
| Residential Units: |  |
| Studio: | 51 |
| 1-Bedroom: | 289 |
| 1-Bedroom plus den: | 308 |


|  | Proposed |
| :--- | :--- |
| 2-Bedroom: | 173 |
| 2-Bedroom plus den: | 132 |
| 3-Bedroom: | 7 |
| 3-Bedroom plus den: | 7 |
| Total: | 967 |

## Referrals

Engineering: The Engineering Department has no objection to the project

The School District has advised that there will be approximately 35 school-age children generated by this development, of which the School District has provided the following expected student enrollment.

19 Elementary students at James Ardiel Elementary School 10 Secondary students at Kwantlen Park Secondary School

## (Appendix III)

Parks, Recreation \& Culture:

Surrey Fire Department: No concerns

Advisory Design Panel: The proposal was considered at the ADP meeting on December 14, 2023 and was supported. The applicant has resolved most of the outstanding items from the ADP review as outlined in the Development Permit section of this report. Any additional revisions will be completed prior to Council's consideration of Final Adoption of the rezoning by-law, to the satisfaction of the Planning and Development Department.

## Transportation Considerations

## Traffic Impacts

- The applicant was required to submit a transportation impact analysis ("TIA") to evaluate site-generated traffic impacts. According to the TIA, the proposal is anticipated to generate approximately three vehicles every minute in the peak hour.
- The TIA confirmed the need for signalization of the intersection of Bolivar Road and King George Boulevard, which is planned to be constructed as part of adjacent development. With this improvement, the road network and study intersections were projected to operate at acceptable levels.


## Road Network \& Infrastructure

- The applicant will be required to provide the following improvements to support the subject proposal:
- Construction of the north side of King George Boulevard to the City Centre arterial road standard;
- Dedication and construction of the west side of Bolivar Road with pedestrian and cycling infrastructure and pavement widening; and
- Dedication and construction of the south side of 112 Avenue to the City Centre collector road standard.


## Access and Parking

- The subject site is proposed to be accessed via 112 Avenue and Bolivar Road.
- The Zoning Bylaw requires a total of 974 parking spaces to be provided on site.
- The applicant is proposing to provide a total of 984 parking spaces on site, exceeding the Zoning Bylaw requirements.


## Parkland and/or Natural Area Considerations

- Development Permits for Sensitive Ecosystems (Streamside Protection) and Hazard Lands (Steep Slopes) are required.
- Bolivar Creek, a Class A watercourse, runs along the west portion of the site and continues north, across 112 Avenue, and south, across King George Boulevard.
- A Class C ditch is located along the Bolivar Road frontage and is proposed to be infilled. Final approval from Province under the Water Sustainability Act (WSA) is required.
- The required streamside setback, as outlined in Part 7A of the Zoning Bylaw, is 30 metres from top of bank for Bolivar Creek (Class A Stream). The setback proposed as part of the subject development project is reduced to a minimum of 19.2 metres ranging up to 34.3 metres.
- The rationale for the proposed reduction includes the following:
- the proposed variable setbacks exceed the minimum setback requirements under the provincial Riparian Areas Protection Regulation (RAPR);
- a reduced setback to the watercourse is proposed in order to allow for a development site that can accommodate building envelopes and densities that are reflective of the goals of the City Centre Plan;
- the associated riparian protection area will be conveyed to the City for riparian protection purposes (Lot 3) and contains an area of approximately 5,990 $\mathrm{m}^{2}$; and
- the proposed setbacks balance both riparian protection (through habitat restoration and conveyance) and development potential of the site.
- Staff support the requested variances to proceed for consideration.
- The site has a gross site area of 15,854 square metres with approximately 5,990 square metres of environmentally sensitive area being conveyed, (proposed Lot 3) at no cost, to the City, for riparian area protection purposes.
- A P-15 will be required in order to secure the proposed riparian habitat restoration and enhancement in advance of conveyance to the City.
- In accordance with the required City processes with respect to Sensitive Ecosystem Development Permit Areas (Streamside Protection) the applicant engaged Dillon Consulting Ltd. and appropriate Qualified Environmental Professionals (QEP), to prepare the required environmental assessments and reports.
- A 5 metre publicly accessible path will be located between the development site and the riparian area being conveyed to the City. This path will serve as both a public walkway and as drainage access to Bolivar Creek. The applicant is responsible for the design and installation as part of a P-15 agreement in consultation with staff.


## Sustainability Considerations

- The applicant has met all of the typical sustainable development criteria, as indicated in the Sustainable Development Checklist.
- In addition, the applicant has highlighted the following additional sustainable features:
- The buildings are designed to maximize natural daylighting and solar efficiency. The design specifies efficient systems such as Energy Star appliances, Intelligent lighting systems and LED lighting throughout. The project will be designed to Step Code 2 Standards.
- The project is close to transit systems, as well as planned outdoor park spaces. The result is an eco-efficient urban lifestyle which brings diversity, energy and renewed vitality to this neighborhood while respecting the sensitive eco-environment of Bolivar Creek.
- Construction emphasizes the use of materials that are certified to be from renewable sources and are manufactured or assembled locally to save on transportation energy and emissions.
- The design specifies the use of healthy materials, adhesives, sealants, paints and coatings to minimize the emission of harmful chemicals. All of which reduces our impact on outside ecosystems while helping create the healthiest indoor environment for homeowners and office workers.
- The multiple terraced roof areas are designed to incorporate living space, landscape and technology to create a positive environmental effect. Where possible, areas will be dedicated to 'green roof', reducing waste heat generation and creating beneficial urban eco-habitats.
- A stormwater collection system is being designed which will filter runoff and reduce pressure on the public storm water system. This extensive perimeter stormwater management system will be assisted by the water-retaining capacity of the landscaped open space, roof decks and permeable surfaces.


## POLICY \& BY-LAW CONSIDERATIONS

## Regional Growth Strategy

- The subject site is located within, and complies with, the Urban Centres (Surrey Metro Centre) Land Use Designation of Metro Vancouver's Regional Growth Strategy.


## Official Community Plan

## Land Use Designation

- The subject site is designated Multiple Residential in the Official Community Plan, with a permitted maximum density of 2.5 FAR, as noted in Figure 3 of the OCP.
- The applicant is proposing to amend Figures 3 and 16 from Multiple Residential to Downtown 3.5 FAR.


## Amendment Rationale

- The proposed density and building form are appropriate for this part of Surrey City Centre, and forms part of an emerging higher-density City Centre area.
- The proposed development conforms to the goal of achieving high-rise, high density, and mixed-use development around the three SkyTrain Stations. The Gateway Skytrain Station is less than 700 metres, as the crow flies, from the subject site.
- The proposed tower forms are consistent with the neighbouring development application to the east (Application No. 7917-0397-oo - Third Reading), which features towers of 26, 31 and 37 storeys.
- The application will be subject to the Community Amenity Contribution (Capital Projects) and Density Bonus Program, which received final adoption from Council at the December 16, 2019, Regular Council - Land Use Meeting.

Public Consultation for Proposed OCP Amendment

- Pursuant to Section 475 of the Local Government Act, it was determined that it was not necessary to consult with any persons, organizations, or authorities with respect to the proposed OCP amendment, other than those contacted as part of the pre-notification process.


## Themes/Policies

- The proposed development is consistent with the following OCP Themes and Policies:
- Growth Management
- Accommodating Higher Density: Direct higher-density development into Surrey's City Centre.
- Centres, Corridors and Neighbourhoods:
- Dynamic City Centre: Strengthen Surrey's City Centre as a dynamic, attractive, and complete Metropolitan Core.
- Transit Corridors: Support Transit Oriented Development along major corridors linking urban centres and employment areas.
- Healthy Neighbourhood: Build complete, walkable, and green neighbourhoods.
- Urban Design: Encourage beautiful and sustainable urban design.
- Ecosystems
- Energy, Emissions and Climate Resiliency: Design a community that is energyefficient, reduces carbon emissions and adapts to a changing environment.
- Economy
- Employment Lands: Ensure sufficient supply and efficient use of employment lands.
- Employment, Investment and Innovation: Ensure high-quality, business innovation and diversified employment and investment opportunities.


## Secondary Plans

## Land Use Designation

- The subject site is designated Low to Mid Rise Residential and Creek/Top of Bank Buffer in the City Centre Plan.
- The application proposes to amend the City Centre Plan from Low to Mid Rise Residential to Mid to High Rise Mixed-Use and Residential for the development portion of the site.


## Amendment Rationale

- The proposed density and building form are appropriate for this part of Surrey City Centre and will complement higher density developments nearby to the south and east.
- The applicant will be subject to the Community Amenity Contribution (Capital Projects) and Density Bonus Program, which received final adoption from Council at the December 16, 2019, Regular Council - Land Use Meeting.
- The "Creek/Top of Bank Buffer" designation is proposed to remain.


## Themes/Objectives

- The proposed development is consistent with the following guiding principles of the City Centre Plan:
- Build Density and Mixed Use, by providing a mix of commercial, office and residential space.
- Encourage Housing Diversity, with a mix of rental and condominium units and a variety of unit types and sizes.
- Encourage Office and Employment, by providing approximately 6,268 square metres of office space and ground floor commercial retail units.
- Promote Identity and Sense of Place, with a unique blend of interconnected commercial, amenity and residential spaces.


## CD By-law

- The applicant proposes to rezone the subject site from "Highway Commercial Industrial Zone (CHI)" to "Comprehensive Development Zone (CD)".
- The applicant is proposing a "Comprehensive Development Zone (CD)" to accommodate the proposed development on the subject site. The proposed CD By-law for the proposed development site identifies the uses, densities and setbacks proposed. The CD By-law will have provisions based on the "Multiple Residential 135 Zone (RM-135)" and the "Community Commercial Zone (C-8)".
- The CD Bylaw contains Blocks A, B, and C. Block A contains the southern two buildings on the development site (proposed Lot 1). Block B contains the north building on the development site (proposed Lot 2 ) and Block $C$ contains the riparian protection/open space area (proposed Lot 3).
- A comparison of the density, lot coverage, setbacks, building height and permitted uses in the RM-135 Zone, C-8 Zone and the proposed CD By-law is illustrated in the following table:

|  | RM-135 and C-8 Zones | Proposed CD By-law |
| :---: | :---: | :---: |
| Land Use | The RM-135 Zone permits multiple unit residential buildings and groundoriented multiple residential buildings. <br> The C-8 Zone permits commercial uses including: <br> - Retail stores; <br> - Personal service uses; <br> - General service uses; <br> - Beverage container return centres; <br> - Eating establishments; <br> - Neighbourhood pubs; <br> - Liquor stores; <br> - Office uses; <br> - Parking facilities; <br> - Automotive service uses; <br> - Indoor recreational facilities; <br> - Entertainment uses; <br> - Assembly Halls; <br> - Community services; <br> - Child care facilities; and <br> - One dwelling unit. | Residential will comply with the RM-135 Zone in all Blocks A and B. <br> Commercial uses will include the following: <br> Block A <br> - Retail stores; <br> - Personal service uses; <br> - General service uses; <br> - Eating establishments; <br> - Neighbourhood pubs; <br> - Liquor stores; <br> - Office uses; <br> - Indoor recreational facilities; <br> - Entertainment uses; <br> - Community services; and <br> - Child care facilities. |
| FAR (Net Density) | 2.5 | Overall net site density: <br> 7.1 <br> Block A: <br> 7.5 <br> Block B: <br> 6.6 <br> Block C: <br> N/A |
| Lot Coverage | 33\% | Block A: 42\% <br> Block B: 48\% <br> Block C: N/A |



- The proposed net floor area ratio (FAR) of 7.5 (Block A) and 6.6 (Block B) and the lot coverage of $42 \%$ and $45 \%$ will exceed the maximum 2.5 FAR and $33 \%$ lot coverage permitted under the RM-135 Zone.
- While the proposed density exceeds that permitted in the Low to Mid Rise Residential designation (2.5 FAR) calculated on the gross site area, the proposed use and density complies with the intent of the proposed Mid to High Rise Residential and Mixed-Use (3.5 FAR) designations in the Surrey City Centre Plan. The overall gross FAR of the project is 5.0.
- The proposed lot coverage is appropriate for the proposed development including significant podiums and is contextually consistent with proposed surrounding developments to the south and east.
- The RM-135 Zone requires the setbacks to be 7.5 metres or a minimum of $50 \%$ of the building height, whichever is greater. The applicant is proposing reductions for all setbacks in the CD By-law. The reduction in building setbacks is supportable as they allow for more active engagement of the streets, which is desirable for the City Centre area and consistent with the City Centre Plan design guidelines.


## Streamside Variance

- The applicant is requesting the following streamside variance:
- to reduce the minimum setback distance for a Class A (red-coded) stream from 30 metres to a minimum of 19.2 metres (ranges up to 34.3 metres).


## Applicant's rationale:

- Conveyance to the City and restoration of the riparian protection area is proposed for the site.
- The restoration will include the removal of refuse, structures and invasive species. It will also include the planting of native trees and shrubs.
- The result will be a conversion of a historically polluted, compromised and poorly functioning riparian setback area to a healthy forested ecosystem with improved habitat for plants and animals.


## Staff Comments:

- A reduced setback to the red-coded watercourse, Bolivar Creek, is proposed in order to allow for a development site that can accommodate building envelopes and densities that are reflective of the goals for an emerging City Centre.
- The riparian protection area will be conveyed to the City for riparian protection purposes (Lot 3) and contains an area of approximately 5,990 square metres.
- The proposed streamside setback ranges between 19.2 metres and 34.3 metres from top of bank, in response to the site geometry and with the goal of balancing riparian area setbacks and development site potential.
- The proposed setbacks exceed the Riparian Areas Protection Regulation (RAPR) of 10.5 metres from high water mark.
- Staff believe that the proposed setbacks, along with significant habitat restoration from the existing compromised site condition, along with conveyance, balance both riparian protection and development potential of the site. Staff support the requested variances to proceed for consideration.


## Capital Projects Community Amenity Contributions (CACs)

- On December 16, 2019, Council approved the City's Community Amenity Contribution and Density Bonus Program Update (Corporate Report No. R224; 2019). The intent of that report was to introduce a new City-wide Community Amenity Contribution (CAC) and updated Density Bonus Policy to offset the impacts of growth from development and to provide additional funding for community capital projects identified in the City's Annual Five-Year Capital Financial Plan. A fee update has been approved in April 2023, under Corporate Report No.Ro37;2023.
- The proposed development will be subject to the Tier 1 Capital Plan Project CACs. The contribution will be payable at the rate applicable at the time of Building Permit issuance. The current rate is $\$ 2,136$ on a per unit basis.
- The proposed development will be subject to the Tier 2 Capital Plan Project CACs for proposed density greater than the City Centre Plan designation, payable at the time of Final Adoption. The current rate for the Whalley Community Area is $\$ 459.85$ per sq.m of additional residential floor area above the current plan designation.


## Affordable Housing Strategy

- On April 9, 2018, Council approved the City's Affordable Housing Strategy (Corporate Report No. Ro66; 2018) requiring that all new rezoning applications for residential development contribute $\$ 1,068$ per new unit to support the development of new affordable housing. The funds collected through the Affordable Housing Contribution will be used to purchase land for new affordable rental housing projects.
- The applicant will be required to register a Section 219 Restrictive Covenant to address the City's needs with respect to the City's Affordable Housing Strategy.


## Public Art Policy

- The applicant will be required to provide public art, or register a Restrictive Covenant agreeing to provide cash-in-lieu, at a rate of $0.5 \%$ of construction value, to adequately address the City's needs with respect to public art, in accordance with the City's Public Art Policy requirements. The applicant will be required to resolve this requirement prior to consideration of Final Adoption.


## PUBLIC ENGAGEMENT

- Pre-notification letters were sent on January 17, 2024, and the Development Proposal Signs were installed on January 15, 2024. Staff have not received any comments.


## DEVELOPMENT PERMITS

## Sensitive Ecosystems (Streamside Areas) Development Permit Requirement

- The subject property falls within the Sensitive Ecosystems Development Permit Area (DPA) for Streamside Areas in the OCP, given the location of an existing Class A (red-coded) watercourse which flows north. The Sensitive Ecosystems (Streamside Areas) Development Permit is required to protect aquatic and terrestrial ecosystems associated with streams from the impacts of development.
- In accordance with Part 7A Streamside Protection setbacks of the Zoning By-law, a Class A (red-coded) watercourse requires a minimum streamside setback of 30 metres, as measured from the top of bank. The proposed minimum setback of 19.2 metres is less than the requirements outlined in the Zoning By-law.
- The riparian area, of approximately 5,990 square metres is proposed to be conveyed to the City as a lot for conservation purposes as a condition of rezoning approval in compliance with the OCP.
- An Ecosystem Development Plan, prepared by Remi Masson, R.P. Bio., of Red Cedar Environmental Consulting and dated December 21, 2023 was reviewed by staff and found to be generally acceptable, with some modifications to content and format of the report still required. The finalized report and recommendations will be incorporated into the Development Permit.


## Hazard Lands (Steep Slope) Development Permit Requirement

- The subject property falls within the Hazard Lands (Steep Slope) Development Permit Area (DPA) in the OCP, given that the site contains steep slopes in excess of $20 \%$ gradient. The Hazard Land (Steep Slope) Development Permit is required to protect developments from hazardous conditions.
- The subject site is adjacent to Bolivar Creek with portions of its western banks within the subject site.
- The overall site slopes down gently to the north with the steepest portions along the creek banks at a gradient of 1 horizontal to 1 vertical (1:1 slope).
- A geotechnical report, prepared by Stuart Hyrsio, P. Eng., of Braun Geotechnical Ltd. and dated November 28, 2023. This report will be peer reviewed in advance of final adoption. The report was reviewed by staff and found to conform to the OCP Development Permit guidelines for Hazard Lands, with some modifications to content of the report still required, including a hydrogeological assessment report. The finalized geotechnical report will be incorporated into the Development Permit.
- The geotechnical report investigated issues related to slope stability and natural storm water drainage, from a geotechnical perspective, to determine the feasibility of development the site and proposing recommendations to ensure the ongoing stability of the slope.
- The consultant has determined that the development is feasible provided that the recommendations in their report are incorporated into the overall design of the site to be outlined as part of the finalized report.
- Registration of a Section 219 Restrictive Covenant that requires the owner to develop the site in accordance with the conditions in the geotechnical report is required as a condition of final adoption.
- At Building Permit stage, the Building Division will require Letters of Assurance from a geotechnical engineer to ensure that the building plans comply with the recommendations in the approved geotechnical report.


## Form and Character Development Permit Requirement

- The proposed development is subject to a Development Permit for Form and Character and is also subject to the urban design guidelines in the Surrey City Centre Plan.
- The proposed development generally complies with the Form and Character Development Permit guidelines in the OCP and the design guidelines in the Surrey City Centre Plan.
- The applicant has worked with staff to:
- Develop an attractive mixed-use project that leverages the features of Bolivar Creek, integrating a diverse range of open spaces and uses.
- Create distinctive tower and podium structures that featuring organic, terraced massing and architectural expression.
- Design the three-tower concept around Bolivar Creek with appropriate setbacks and landscaping and habitat restoration.
- Adopt an approach to tower height that considers the proposed adjacent development and existing single-family and low-rise buildings to the east.
- Enhance the pedestrian and public realm experience along King George Boulevard, Bolivar Road, and 112 Avenue, with a focus on desired pedestrian pathways and placemaking plazas.
- The site plan and buildings have been oriented in response to the site's irregular geometry and riparian protection area. Bolivar Creek and the associated riparian protection area is a significant environmental feature of the City, and it is an important plan and form generator for this project.
- The characteristic of this site is the curving, meandering and organic nature of the creek and its bordering open space and the site planning of the built forms have been organized to embrace this character.
- Taking into account the required environmental setbacks required from the Bolivar Creek top of bank, the remaining development site for the project becomes fairly long, linear and angled in the center area of the site forming what is a boomerang shape overall.
- The project has three significant tower forms along Bolivar Road at 21 storeys closest to King George Boulevard, 37 storeys in the center of the plan and 24 storeys for the third tower closest to 112 Avenue.
- The towers have been positioned for maximum separation distances between them on the site as well as the separations to the towers proposed in the planned development across Bolivar Road to the southwest. Additionally, the towers have been positioned to maximize the view corridors for each of the towers to surrounding mountains and views of Surrey City Centre.
- On-site amenity areas at grade are primarily adjacent to the Bolivar Creek riparian protection area, to be conveyed to the City.
- A statutory right-of-way will be secured for public rights of passage from Bolivar Road through the central open space area within the site to provide public access to the path along the outer edge of the riparian protected area.
- The building forms are terraced with decks which take advantage of both short range views of the creek area and long-range views to the north shore mountains.
- The rooftop amenities on each tower also take advantage of immediate views to Bolivar Creek as well as long range views to the North Shore Mountains, Downtown Vancouver, and Mount Baker.
- The space between Tower 2 and Tower 3 will be open green space thereby connecting the green space of the Bolivar Creek to Bolivar Road and providing a major public access and view corridor through to the site from $112^{\text {th }}$ Avenue.
- There are amenity spaces at each of the ground levels of the towers as well as located adjacent to various rooftops of the podiums thereby allowing both indoor and outdoor amenity spaces the opportunity to easily interact with one another.
- Towers 1 and 2 (adjacent to King George Boulevard and central to the site) are joined at the podium levels and highlighted with a swooped curving articulation of the predominantly glass façade that is horizontal at the podium and then rises vertically on each tower to form a visually interesting composition between the two towers.
- This dynamic curve creates a unique architectural expression on the skyline that takes it visual clues from the organic curved nature of Bolivar Creek. The podium connection between the two towers steps up in either tower direction with landscaped terraces that have been designed to visually relate to the Bolivar Creek green space and further emphasize the organic nature of the site.
- The copper-finish horizontal aluminum panels add a warmer visual interest to the towers.
- The project aligns with the sustainability criteria of the City of Surrey, meeting at least Step 2 of the BC Step Code.
- Tower 3 and its podiums are distinct from Towers 1 and 2, while sharing a common concept and materials, and is separated by a green pedestrian and landscaped area that physically connects to the Bolivar Creek Greenway. This tower completes the ensemble facing Bolivar Creek by creating an L-shaped form with two separate stepping podiums that run along both 112 Avenue and Bolivar Road thereby defining the corner.
- This tower has some similar vertical and horizontal banding and stepping elements to Towers 1 and 2 but at the same time provides differentiation which does not mimic, and instead offering complementary elements to the curving design of the first two towers.
- Exterior Building materials will reflect both the urban setting and natural amenity of Bolivar Creek. Pre-finished metal panels in copper finish material and white vertical design elements along with alternating widow panels will provide a refreshing and dynamic sense of movement.


## Landscaping

- The landscaping design concept is to reduce the overall scale of the development to create a human-scale experience.
- The open space central to the site and between Bolivar Road and the riparian area helps to create a livable community on and off-site.
- The landscape spaces promote strong physiological well-being for the residents, including outdoor gathering places, picnic tables, and urban agriculture areas.
- Ground level units include patios and buffer planting with direct access to the adjacent courtyard or public sidewalks.
- The creation of natural habitat is a key focus for the site, including the provision of pollinator gardens and the reintroduction of naturalized rain gardens to attract native fauna, and the introduction of ethnobotanic edible planting for both human enjoyment and ecosystem function.
- The planting selection supports a diversity of insects, plants, animals, and other organisms, many of which are beneficial to local food production.
- It also supports the urban habitat allowing plants and animals to move between different urban green zones, overcoming the effects of habitat fragmentation and helping to diversify the gene pool.
- The garden space within the primary courtyard central to the site between phases 1 and 2 creates the opportunity for people to experience nature and our ecosystem.
- There are a limited number of Urban Design items that remain outstanding, and which do not affect the overall character or quality of the project.
- Design development of the publicly accessible pathway from Boliver Road to the riparian walkway. Coordinate and further develop the public realm interfaces, including riparian frontages, public plazas, ground-level unit interface, grading, servicing, and parking ramp/loading.


## Indoor Amenity

- Per the Indoor Amenity Space requirements of the Zoning By-law No. 12000, high-rise towers that are 25 storeys or higher must provide 3 square metres of indoor amenity space per unit up to 557 square metres per tower, which equates to 186 units, plus 1 square metre per unit above 557 square metres, plus 4 square metre per micro unit and 1 square metre per lock-off unit for each building.
- Based upon the City's Zoning Bylaw requirement, the proposed development must provide a total of 2,233 square metres of indoor amenity space for the proposed 967 residential units, (there are 51 micro units proposed). Of that 2,233 square metres of indoor amenity space, a total of 897 square metres must be provided on site ( 186 square metres for buildings between 13-24-storeys and 372 square metres per building for 25 -storeys and above), and the remainder can be provided through a cash-in-lieu contribution.
- The applicant is proposing 2,946 square metres of indoor amenity space located throughout the development, which exceeds the minimum requirement as outlined in the Bylaw.
- Indoor amenity areas are provided in each of the residential buildings on the ground floor and on podium and rooftops levels and are connected to the outdoor amenity areas.
- Phase 1, the southern two towers, are incorporating indoor amenity areas on the ground floor and in the podiums and towers on levels 6,22 , and on level 38 for a total of 2,183 square metres.
- Phase 2, the north tower, is incorporating indoor amenity areas on the ground floor and in the podium and tower on levels 11 and 25 for a total of 939 square metres.
- The indoor spaces vary in scale and are designed to provide for a wide range of activities and programming.
- The spaces will include games areas, fitness centres, gym and yoga spaces, children's activity areas, working and meeting rooms, and multi-purpose spaces and event areas.
- Indoor spaces are connected to outdoor amenity spaces with their complimentary programs and functions.


## Outdoor Amenity

- Based upon the City's Zoning Bylaw requirement of 3 square metres per dwelling unit of outdoor amenity space, a total of 2,952 square metres of outdoor amenity space is required for the proposed development.
- The applicant is proposing 3,900 square metres of outdoor amenity space across the site, which exceeds the total outdoor amenity space required under the Zone.
- The outdoor amenity spaces on this site are unique, as they respond to and connect with the riparian area. A central courtyard is proposed in the central portion of the site that provides for a wide range of active and passive spaces for residents and a connection to the riparian pathway for the community. This plaza includes a mix of hard surface areas and trees and greenery.
- Large areas of green roof are proposed that will provide valuable habitat and food sources for nesting birds. In addition to habitat, the soft landscape areas will provide storm water benefits.
- Outdoor amenity spaces are proposed on podium and rooftop levels of all three residential towers, adjoining the indoor amenity areas. The spaces include an entertaining area off the amenity room, outdoor living rooms, sun deck, central lawn and an urban agriculture garden.


## TREES

- D.Glyn Romaine, ISA Certified Arborist of VDZ+A prepared an Arborist Assessment for the subject property. The table below provides a summary of the proposed tree retention and removal by tree species:

Table 1: Summary of Proposed Tree Preservation by Tree Species:

| Tree Species | Existing | Remove | Retain |
| :---: | :---: | :---: | :---: |
| Alder and Cottonwood Trees |  |  |  |
| Cottonwood | 5 | 5 | 0 |
| Deciduous Trees |  |  |  |
| Big Leaf Maple | 2 | 2 | 0 |
| Coniferous Trees |  |  |  |
| Douglas Fir | 1 | 1 | 0 |
| Western Red Cedar | 1 | 1 | 0 |
| Total (excluding Alder and Cottonwood Trees) | 4 | 4 | O |
| Additional Trees in the proposed Riparian Area | 41 | 4 | 37 |
| Total Replacement Trees Proposed (excluding Boulevard Street Trees) |  | 72 |  |


| Total Retained and Replacement Trees <br> Proposed | 109 |
| :--- | :---: |
| Estimated Contribution to the Green City <br> Program | N/A |

- The Arborist Assessment states that there are a total of 4 mature trees on the site, excluding Alder and Cottonwood trees. Five (5) existing trees, approximately $60 \%$ of the total trees on the site, are Cottonwood trees. The applicant proposes to retain no trees on the development site as part of this development proposal. The proposed tree retention was assessed taking into consideration the location of services, building footprints, road dedication and proposed lot grading.
- Table 1 includes an additional 41 protected trees that are located within the proposed riparian protection area. The trees within the proposed riparian area will be retained, except where removal is required due to hazardous conditions. 4 trees are currently proposed for removal and will be confirmed at a later time, in consultation with the Parks, Recreation and Culture Department.
- A detailed planting plan prepared by a Registered Professional Biologist (R.P. Bio.) and an associated $\mathrm{P}-15$ agreement are required for the monitoring and maintenance of the proposed trees to be planted in the conveyed riparian area.
- For those trees that cannot be retained, the applicant will be required to plant trees on a 1 to 1 replacement ratio for Alder and Cottonwood trees that are outside the streamside protection area, and a 2 to 1 replacement ratio for all other trees, including Alder and Cottonwood that are within a streamside protection area. This will require a proposed total of 13 replacement trees on the site. The applicant is proposing 72 replacement trees, exceeding City requirements.
- In addition to the replacement trees, boulevard street trees will be planted on Bolivar Road and 112 Avenue. This will be determined by the Engineering Department during the servicing design review process.
- The new trees on the site will consist of a variety of trees including Paperbark Maple, Japanese Maple, Red Maple, Katsura Tree, Pink Star Magnolia, and Shore Pine.
- In summary, a total of 109 trees are proposed to be retained or replaced on the site with no contribution to the Green City Program.
- The proposed tree retention and replacement strategy will be refined as the applicant works through the detailed design process.


## CITY ENERGY

- The subject site is located within Service Area B, as defined in the "City Centre District Energy System By-law" (see Appendix VIII for location). The District Energy System consists of three primary components:
- community energy centres, City-operated facilities that generate thermal energy for distribution through a piped hot water network;
- distribution piping that links the community energy centres with buildings connected to the system; and
- City-owned energy transfer stations (ETS) located within the building connected to the system. The ETS transfers heat energy from the distribution system to the building's mechanical system, and is used to meter the amount of energy used.
- All new developments within Service Area B with a build-out density equal to or greater than a floor area ratio (FAR) of 1.0 will be required to provide hydronic thermal energy systems in support of the City's District Energy (DE) system including domestic hot water, make-up air units and in-suite hydronic space heating. The City is committed to having the DE system operational within the timeframe of this project. Therefore, the subject application will be required to connect to the City's DE system prior to occupancy.
- In order to avoid conflicts between the District Energy System and other utilities, the location of the ETS and related service connections are confirmed by Engineering and the applicant at the servicing agreement stage. The Engineering Department also requires the applicant to register a statutory right-of-way and Section 219 Restrictive Covenant over the subject site for the following purposes:
- City access to, and maintenance and operation of, the ETS within the building and any infrastructure between the building and the property line; and
- to prevent conflicts with other utilities.
- Prior to the issuance of a building permit, the Engineering Department will confirm that the applicant has met the requirements of the "City Centre District Energy System By-law".


## INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:
Appendix I. Proposed Subdivision Layout, Site Plan, Building Elevations, Landscape Plans and Perspective
Appendix II. Engineering Summary
Appendix III. School District Comments
Appendix IV. Summary of Tree Survey, Tree Preservation and Tree Plans
Appendix V. Development Variance Permit No. 7923-0234-oo
Appendix VI. OCP Redesignation Map
Appendix VII. ADP Comments and Response
Appendix VIII. District Energy Map
approved by Ron Gill

Don Luymes
General Manager
Planning and Development
IM/ar

## Appendix I

## Bolivar Mixed-Use

 Development11151 Bolivar Road, 13340 112th Ave. \& 13307 King George Boulevard, Surrey, BC

SUBMISSION TO COUNCIL
APPLICATION No. 7923.0234.00
January 29, 2024

| OWNER: | MECHANICAL: |
| :---: | :---: |
| OVIDEO PROPERTIES LTD. | McW Group |
| 101-8310 310 STREET | UNIT 400, 1111 - WEST GEORGIA ST. |
| SURREY, BC, V3W 8J9 | VANCOUVER BC, V6E 4M3 |
| TEL: (604) 355-6789 | TEL: 604-687-1821 |
| CONTACT: KANWAR DHAMRAIT | CONTACT: ROB GREGG |
| EMAIL: KANWAR@OVIEDOPROPERTIES.COM | EmAlL: RGREGG@MCW.COM |
| ARCHITECT: | ELECTRICAL: |
| CHRIS DIKEAKOS ARCHITECTS Inc. | MCW Group |
| 1635 W BROADWAY | UNIT 400, 1111 - WEST GEORGIA ST. |
| Vancouver bc, v6J 1w9 | VANCOUVER BC, V6E 4M3 |
| TEL: (604) 291-2660 | TEL: 604-687-1821 |
| FAX: (604) 291-2667 | CONTACT: ERIK W.C. MAK |
| CONTACT: RICHARD BERNSTEIN | EMAIL: EMAK@MCW.COM |
| EMALL: RICHARD.B@DIKEAKOS.COM |  |
|  | GREWAL \& ASSOCIATES |
| LANDSCAPE ARCHITECT: | \#204-15299 68th Avenue |
| SUITE 102,355 KINGSWAY | SURREY BC, V3S 2C1, |
| VANCOUVER BC, V1M 3J7, | TEL: 604 597-8567 |
| TEL: $604882-0024$ | CONTACT: SONNY GILL |
| CONTACT: MARK VAN DER ZALM | EMAIL: OFFICE@GREWALSURVEYS.COM |
| EmAlL: MARK@VDZ.CA |  |
| CIVIL: | STRUCTURAL: |
| GS - DESIGN \& MANAGMENT | GLOTMAN SIMPSON |
| TEL: 778-895-6358 | VANCOUVER BC, V6J IN5, |
| CONTACT: NIRVAIR BAGRI | TEL: 604-734-8822 |
| EMAIL: NIRVAIR@GS-DM.COM | CONTACT: GEOF |
|  | EMALL: GGLOTMAN@GLOTMANSIMPSON.COM |



| 170,204 | ${ }_{\text {Slitememer }}$ |
| :---: | :---: |
| 4.19 | far |
| 713,682 | GRossmarea |
| $\begin{array}{r} 967 \\ 984 \\ 2,557 \end{array}$ | TOTAL UNITS PHASE $1 \& 2$ <br> TOTAL STALLS PHASE $1 \& 2$ $\underset{\text { GROSS SQUAR }}{\text { RETAIL }}$ |
| 7,543-7,655 | Trpical floor |
| $\pm 84-85 \%$ | Efficiency |

RESIDENTIAL

| PHASE 1 |  |  |  | $\begin{aligned} & \text { PHASE } 2 \\ & \hline \text { TOWER } 3 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TOWER 1 |  | TOWER 2 |  |  |  |
| 3,360 | GROUND LeVEL | 9,643 | GROUND Level | 13,156 | GROUND Level |
| +161,547 |  | 298,460 | TOWER ${ }_{\text {T,S5ERCROR }}$ | 224,959 | TOWER + PODIUM |
| 164,907 | TOTAL FAR AREA | 308,103 | Total far area | 238,115 |  |
| +13,797 | AMENITY IT | 9,853 | AMENITY T2 | 9,490 | AMENITY T3 |
| 178,704 | Total gross area | 317,956 | TOTAL GROSS AREA | 247,605 | Total gross area |


| 11 | LEVESS | 11 | LEVESS |
| :---: | :---: | :---: | :---: |
| 10 | LEVES - TOWER 1 | 26 | LEVELS - TOWER 2 |
| 21 | Stuorey total | 37 | Stuorey total |
| 214 | UNITS Tl | 437 | UNITS T2 |
| 144 | Parkade til | 411 | Parkade t2 |
| 6 | parking levels | 5 | parking levels |

11 LEVELS
13 LEVELS - TOWER
 316 UNITS T3 429 PARKADE T3

4 Parking levels

Project Development Data
11151 Bolvar Road, 13340 D 11 Avenue $\& 13307$ King George Bollevara, Suray


| wing Heights |  |
| :---: | :---: |
| ${ }_{12225 \mathrm{~m}}^{74.45}$ | 1) |
| ${ }_{81} 81.75 \mathrm{~m}$ | (Phase 2) |

B. Legal Descripton: | Cnic Adrass |
| :---: |

Exstang Legal
c. Zoning:

Current Z zening CH
Proposed Zoning:
CD

D. $\quad$| Proposed Setback: |
| :--- |
| D1 |
| King George Bnd |



$\begin{array}{cl}\text { D4 } & \begin{array}{l}\text { I12Ave } \\ \text { D5 }\end{array} \\ \text { Bolvar Creek }\end{array}$



G. Floor Areas

G1 Commercial - Tower 1 (Phase 1 )

|  | umber |  |  |  |  | FAR Area per | Total Gross Aroa (all | Total FAR Area alal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level | of | Area per Floor | Total Area | Common Area per Floor | Total Common Area | Floor | Floors) | Floors) |
| 11 | 1 | 239.6 sqm 2,579 sq | 2396 sq m 2,579 sq7 | $\begin{gathered} 0.0 \text { sqm } \\ 0 \text { sq } \# \end{gathered}$ | ${ }^{0.05 q \mathrm{~m}}$ |  | 239.6 sqm <br> $2,579 \mathrm{sq} \mathrm{ft}$ |  |
| total | 1 | ( ${ }_{2}^{23.59 .598 \mathrm{sam}}$ | 239.6 sq m | $\underset{\substack{0.0 \mathrm{sam} \\ 0 \text { satt }}}{ }$ | ${ }_{\substack{0 \\ 0.059 \\ 0 \text { satt }}}$ | ${ }_{\text {2 }}^{23.59989 \mathrm{sam}}$ | 239.6 sq m | ${ }_{\text {cke }}^{239.659 \mathrm{sam}}$ |


| 62 | Tower 1 (Phase 1) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Level | $\begin{array}{\|c\|c\|} \hline \text { Number } \\ \text { of of } \\ \text { Floors } \end{array}$ | Unit Area per Floor | Total Unit Area | Common Area per Floor | Totala Common Area | Amenity | Gross Area per Floor | FAR Are a per Floor |  | Total FAR Area (all Floors) |
|  | L | 1 | 0.0 sqm 0.59 tH 0 | 0.0 sqm 0 sq tit 0 | $\begin{gathered} \left.\begin{array}{c} 3125 \mathrm{sqm} \\ 3,360 \mathrm{saf} \end{array} \right\rvert\, \end{gathered}$ | $\begin{aligned} & 312.2 \mathrm{sqm} \\ & 3,360 \mathrm{sqft} \end{aligned}$ | ${ }^{420.4 \mathrm{sqm}}$ | $\begin{gathered} 7325 \mathrm{sam} \\ 7.855 \mathrm{saf} \end{gathered}$ | $\begin{aligned} & 31225 \mathrm{sqm} \\ & 3,360 \mathrm{sqff} \end{aligned}$ | 732.5 sqm $7855 \mathrm{sq} \mathrm{\#}$ | 3122 sqm 3360 saft |
|  | เ2 | 1 | 0.0 sqm <br> 0.59 m <br> 0. | 0.0 sam 0.590 | 0.0 sqm | $\xrightarrow{0.0 \mathrm{sqmm}} 0$ | 0.0 sqm |  |  | 0.0 sqm | $\underset{\substack{0.054 m \\ 0.5910}}{ }$ |
|  | L3-5 | 3 | 947.1 s sm | 28412 samm |  | 539.9sam | 0.0 sam | ${ }^{1127.059}$ sam | 1127.5 sam | ${ }^{338.059 .59 m}$ | ${ }^{33850.059 \mathrm{ma}}$ |
|  |  |  | 10.194 sant | ${ }^{30.582}$ saqn | 1.937 sant | ${ }^{5} .8171$ sat | 0 sat | 12,131 satm | 12,131 sat | ${ }^{36,393 \text { saft }}$ | ${ }^{36,393 \mathrm{saft}}$ |
|  | ${ }^{16}$ | 1 | 554 . sa m 5.97159 \# | 554.7 sqm 5.971 saq | 171.9 sam 1.850 sat |  | 314.4 san 3.34459 f | 1084.0 sam <br> 11.205 saf |  | ${ }^{1044.05 \mathrm{sam}}$ |  |
|  | L7 | 1 | ${ }^{736959} \mathbf{7}$ | ${ }^{736.959}$ sm | ${ }^{139.5 s \mathrm{sqm}}$ | ${ }^{139.559}$ sm | 0.05 sqm | 876.45 sm | ${ }^{7} 876.459 \mathrm{~m}$ | 876.459 m | 8786459 m |
|  |  |  |  |  | 1.502599 138898 | 1,502 59t | 0sqn |  |  |  | 9,434 59 ${ }^{\text {n }}$ |
|  | เ8 | 1 |  | 7.194 san | 1.472 sant | 1.472 sq f | 0 san | ${ }_{8} .866$ sat | ${ }_{8,6668 \text { sq }}$ | ${ }_{8.666} 59 n$ |  |
|  | 19 | 1 | ${ }^{6499599 m}$ | ${ }^{644.959}$ m | 1072 sam | 107.25 sam | 0.0 sam | 75.15 sqm | 752.159 m | 752.159 m | 752.159 m |
|  |  | 1 | ${ }^{6,942}$ sat |  | $\frac{1,154594 t}{10729}$ | 1,154 satt | 0 satt | ${ }^{8.096594 t}$ | ${ }^{8,096}$ safl | $\frac{8.096 \text { satt }}{725359}$ | $\frac{8.096 \text { satt }}{7253 \mathrm{sam}}$ |
|  | ${ }^{1} 10$ | 1 | ${ }^{618.15 \mathrm{sqm}}$ 6.653 sq7 | ${ }^{618.159 \mathrm{sqm}}$ 6.653 sq | 1072 sam 1,154 sat |  | $\underset{\substack{0.0 \text { sq m } \\ 0 \text { sqft }}}{0}$ |  | $\xrightarrow{725.359 \mathrm{sam}} \mathbf{7}$ |  |  |
|  |  |  |  |  |  | 107.2 sqm |  |  |  | 6988 sqm | ${ }^{6988859}$ m |
|  | L11 | 1 | 6.346597 | 6.34659 fit | 1.154 59 ${ }^{\text {th }}$ | 1.154 5af | Osat | 7.50059 at | 7.50059 ff | 7.500 saft | 7.50059 ff |
|  | L12.21 | 10 |  |  | (1072sam | (1072.1sam | ${ }^{0.0} 0.0$ a m |  |  |  |  |
|  |  |  | ${ }^{6.346 ~ 59 \%}$ | ${ }_{\text {c }}^{63,460 \text { sam }} 0$ | $\frac{1,154 \text { sat }}{0.59 m}$ | ${ }^{11,540 \text { sat }}$ | 0 sat |  | $\frac{7.500 \text { sat }}{0.059}$ |  | $\frac{75.00059}{0.059}$ |
|  | 122 Amenty | 1 | ( | - | $\xrightarrow[\substack{0.059 m \\ 0.997}]{\text { 0. }}$ | ${ }_{\text {cose }}^{0.059 \mathrm{sam}} 0$ |  | ¢ |  | 5332 sqm <br> 5.739 sqn | 0.059 m $0.59 \%$ |
|  | total | ${ }^{21}$ |  | 12549.3 sq m $135,080 \mathrm{sq} \mathrm{ft}$ |  | 2693.9 sqm $28,99 \mathrm{maqt}$ | 1267.9 sq m $13,648 \mathrm{sq} \mathrm{ft}$ |  |  | 16511.2 sq m 177,725 sqfit | 15243.2 sq m $164,077 \mathrm{sq} \mathrm{ft}$ |



C】〇 $\begin{gathered}\text { ChrIS DIKEAKos } \\ \text { ARCHITECTS } \\ \text { inc. }\end{gathered}$

| Tower 2(Phase 1) | Number of floors | studio | 1 Bed | 1 Bed + Den | 2 Bed | 2 Bed + Den | 3 Bed | 3 Bed + Den | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (317 sqfi) | (459.548 sq fi) | (505.788 sq f) | (882761 9 9 fi) | (756.973 sqif) | (1016 squf) | (1000 squt) |  |
| L1 | 1 | 2 | 4 | 1 | 2 | 1 |  |  |  |
| L2 | 1 | 1 | 1 | 1 | 1 | 1 |  |  | 5 |
| 4 | 1 | 2 | 9 | 6 | 1 | 1 |  |  | 19 |
| L4.6 | 3 | 1 | 10 | 6 | 1 | 1 |  |  |  |
| L7 | 1 | 1 | 4 | 6 | 1 | 1 |  |  | 13 |
| L8 | 1 | 1 | 3 | 5 | 1 | 3 |  |  | 13 |
| L9 | 1 | 1 | 2 | 4 | 1 | 4 |  |  | 12 |
| L10 | 1 | 1 | 2 | 4 | 1 | 1 | 1 | 1 | 11 |
| L11 | 1 | 1 | 3 | 3 | 2 | 2 |  |  | 11 |
| L12.37 | 26 | 1 | 3 | 3 | 2 | 2 |  |  | 286 |
| L38 Amenity | 1 |  |  |  |  |  |  |  | 0 |
| Total | 37 | 39 | 136 | 126 | 65 | 69 | 1 | 1 | 437 |
| Distribution |  | 8.9\% | 31.1\% | 28.8\% | 14.9\% | 15.8\% | 0.2\% | 0.2\% | 100.0\% |
| Adaptable Unit\# |  | 8.9\% | 60.0\% |  | 30.7\% |  | 0.5\% |  |  |


| Tower 3(Phase 2) |  | Numberof floors | Studio | 1 Bed | 1 Bed + Den | 2 Bed | 2 Bed + Den | 3 Bed | 3 Bed + Den | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (0sat) | (424.648 sq fi) | (533.681 sq f) | (600.74 safi) | (806.559 sq it) | (845-853 sq fi) | - |  |
| L1 |  |  | 1 | 1 | 3 | 9 |  |  | 2 | 1 | 16 |
|  |  | 1 | 1 | 2 | 10 | 1 |  |  | 1 | 15 |
|  |  | 2 | 2 | 2 | 15 | 1 | 1 | 2 | 1 |  |
| L |  | 2 | 1 | 2 | 10 | 5 | 2 |  |  | 48 |
| LLT.6 |  | 2 | 1 | 2 | 8 | 3 | 2 |  |  | 3226 |
| L9.10 |  | 2 | 1 | 2 | 5 | 3 | 2 |  |  |  |
|  |  | 1 |  | 3 | 2 | 2 | 2 |  |  | $\stackrel{26}{9}$ |
|  |  | 13 |  | 4 | 2 | 2 | 2 |  |  | 130 |
|  |  | 1 |  |  |  |  |  |  |  |  |
| Total |  | 24 | 12 | 76 | 123 | 53 | 42 | 6 | 4 | 100.0\% |
| Distribution <br> Adaptable Unit \# |  |  | 3.8\% | 24.1\% | 38.9\% | 30.1\% |  | 1.9\% | 1.3\% |  |
|  | 11 |  | 3.8\% | 63.0\% |  |  |  | 3.2\% |  | 100.\% |
| Grand Total |  |  | 51 | 289 | 308 | 173 | 132 | 7 | 7 |  |
|  |  |  | 51 | 597 |  | 305 |  | 14 |  | 967 |
|  |  |  |  |  |  |  |  |  |  |  |
| nity Calculations |  |  |  |  |  |  |  |  |  |  |

J. Amenity Calculations


Parking Statistics NOTE: Serrice Areas are not hocluded in parking space calculations

Residential: Non-Ground-Oiented Multiple Unit Residential Buildings AApartments): 0.9 parking spaces per dwelling unit; plus 0.1 parking space perdwelling unit tor visitors
 ,






- oviedo



SURVEY PLAN TO ACCOMPANY CITY OF SURREY BYLAW NO. OVER LOT 1, LOT 2 AND LOT 3 EXCEPT: PART ON STATUTORY RIGHT OF WAY PLAN 5719,
ALL OF SECTION 15 BLOCK 5 NORTH RANGE ALL OF SECTION 15 BLOCK 5 NORTH RANGE 2 WEST NEW WESTMINSTER DISTRICT PLAN 5347

FOR THE PURPOSE OF REZONING
THIS PLAN LIES WITHIN INTEGRATED SURVEY AREA NO. 1 CITY OF SURREY, NAD83(CSRS) 4.O.O.BC.1.MVD
$\xlongequal[\text { SCALE } 1: 600]{20}$


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## LEGEND


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BLOCK PLAN - 13307 KING GEORGE BLVD

## DESIGN RATIONALE

## SITE ORGANIZATION

- Bolivar Creek and its surrounding open green space is a significant Creek System in the City of Surrey and it is an important plan and form generator for this project.
- The characteristic of this site is the curving, meandering and organic nature of the creek and its bordering open space and the site planning of the built forms have been organized to embrace this character.
- Taking into account the required environmental setbacks required from the Bolivar Creek top of bank, the remaining development site for the project becomes fairly long, linear and angled in the center area of the site forming what is a boomerang shape overall.




## BOLIVAR CREEK PATTERN

- The project has a three significant tower forms along Bolivar Road at 21 storeys closest to King George Blvd.; 37 storeys in the center of the plan and 24 storeys for the third tower closest to $112^{\text {th }}$ Avenue.
- The towers have been positioned for maximum separation distances between them on the site as well as the separations to the towers proposed in the planned development across Bolivar road to the southwest. Additionally the towers have been positioned to also maximize the view corridors for each of the towers to surrounding mountains and views of Surrey City Centre.
- The ground floor plan of the tower closest to King George Blvd. (Tower 1) will have the only commercial retail unit in the project fronting King George and wrapping around slightly to the Bolivar Road frontage. The remainder of the floor of this tower will have the principal lobby access on Bolivar, an amenity space facing the Bolivar Creek green space that is connected to the lobby as well as below grade parking access ramp and loading bays connected by a driveway from Bolivar Road that will ultimately service both this tower and the tower in the centre of the overall plan.
- The ground floor of the central tower (Tower 2) will have a series of ground floor units along Bolivar Road on either side of the main lobby for this tower which also fronts Bolivar Creek. A large amenity space is featured connected to the lobby and also facing the Bolivar Creek green space. Additional loading bays are provided also accessed by the driveway between Tower 1 and Tower 2
- Amenity areas at grade are principally fronting on Bolivar Creek and amenity green space.


- Building forms are terraced with decks which face advantage of both, short range views of creek area \& long range views to north shore mountains.
- The rooftop amenities on each tower also take advantage of immediate views to Bolivar Creek as well as long range views to the North Shore Mountains, Downtown Vancouver and Mt. Baker.
- The space between Tower 2 and Tower 3 will be open green space thereby connecting the green space of the Bolivar Creek to Bolivar Road and providing a major public access and view corridor through to the site from $112^{\text {th }}$ Avenue.



## AMENITY FEATURES

- There are amenity spaces at each of the ground levels of the towers as well as located adjacent to various rooftops of the podiums thereby allowing both indoor and outdoor amenity spaces the opportunity to easily interact with one another.



## BUILDING ORGANIZATION/MASSING

## Tower 1 \& 2

- Towers $1 \& 2$ are joined at the podium levels and highlighted with a swooped curving articulation of the predominantly glass façade that is horizontal at the podium and then rises vertically on each tower to form a visually interesting composition between the two towers. This dynamic curve creates a unique architectural expression on the skyline that takes it visual clues from the organic curved nature of Bolivar Creek. The podium connection between the two towers steps up in either tower direction with landscaped terraces that have been designed to visually relate to the Bolivar Creek green space and further emphasize the organic nature of the site.



## Tower 3

- Tower 3 and its podiums are distinct from Towers 1 and 2 and is separated by a green pedestrian and landscaped area that physically connects to the Bolivar Creek Greenway. This tower completes the ensemble facing Bolivar Creek by creative an L-shaped form with two separate stepping podiums that run along both $112^{\text {th }}$ Avenue and Bolivar Road thereby completing a right angle turn to define this corner. This tower has some similar vertical and horizontal banding and stepping elements to Towers 1 \& 2 but at the same time provides differentiation which does not mimic or complete with the curving elements on the first two towers.

- Due to the site shape which is long and linear, a more rectangular tower floor plate had been adopted which is longer in the east-west direction than it is in the north-south orientation.



## MATERIALS \& SUSTAINABILITY

- Exterior Building materials will reflect both the urban setting and natural amenity of Bolivar Creek. Pre-finished metal panels in bronze material and white vertical design elements along with alternating widow panels will provide a refreshing and a dynamic sense of movement.
- The material and exterior wall assemblies are selected to align with sustainability criteria and to satisfy step code requirements. The goal is to minimize the loss of heating energy and minimize mechanical and electrical energy loads. The material and assembly will minimizing the thermal bridging and air leakage through the assemblies. The wall assemblies will retard water ingress by using standard materials like rainscreen walls, insulated glass units and waterproofing coating on concrete.


## CPTED

CPTED will be addressed by selecting vegetation at recommended levels to maintain site lines adjacent to public areas and circulation routes. Safety levels of lighting will be provided through- out the site Architectural security systems such as secorporated throughout the development. On site management/security will also be provided. Large resident and office amenity and outdoor open spaces are elevated above street level in a controlled environment.
Landscape: Lighting will be provided throughout the public realm and site lines will be maintained by public realm and site lines will be maintain recommended heights adjacent to circulations routes and gathering areas.

## CONCLISION

We are pleased to have this opportunity to formally submit the design drawings for this three-Tower and podium multi-family residential project at Bolivar Road and King George Blvd. in the heart of Surrey. We look forward to receiving feedback from the Planning Department on this submission as well as to the next steps in the City's review process.


|  | LEVELS 22, 25 \& 38 ROOF DECK/COURTYARD OUTDOOR AMENITIES |
| :---: | :---: |

LEVELS 1 \& 10,(T3) INDOOR AMENITIES \& OUTDOOR COURTYARD AMENITIES


LEVELS 1,6, 7,22 \& 38 (T1\&2) INDOOR AMENITIES



The Bolivar Project is within 700 meters walking distance to the Gateway Skytrai Station. Additionally it is well serviced by major bus lines which run along King George Blvd.

A multi-use pathway runs along Bolivar Road connecting the BC Parkway along King George Blvd. Additionally, provisions throughout the project.

The project is within walking distance of green spaces, transit centres and outdoo green spaces, transit centres and outdoo and landscaping along Bolivar Road and and landscaping along Bolivar Road and
public plaza will encourage pedestrian activity for residents.

WALKABILITY

ENERGY MANAGEMENT

The buildings in the Bolivar project are designed to maximize natural daylighting and solar eficiency. The design spec efficient systems such as Energy Star LED lighting throughout. The project will be designed to Step Code 2 Standards.

The Bolivar project utilizes a pre-developed site and increases the densification of this existing very ow-density site. The project is close to transit systems, as well as outdoor green
spaces. The result is an eco-efficient urban spaces. The result is an eco-efficient urban
lifestyle which brings diversity, energy and lifestyle which brings diversity, energy and
renewed vitality to this neighborhood while respecting the sensitive eco- environment of Bolivar Creek.

URBAN DESIGN RINCIPLES


Construction of Bolivar Residence Development emphasize the use of materials that are certified to be from newable sources and are ave on transportation energy and emissions.

The design also specifies the use of ealthy materials, adhesives, sealan paints and coatings to minimize the mission of harmful chemicals. All of which reduces our impact on outsid cosystems while helping create the ealthiest indoor environment for homeowners and office workers.

Traditionally, rooftops have been wasted areas of the urban landscape y contrast, the multiple terraced roof areas of the Bolivar Residence Development are designed to ncorporate living space, landscape and technology to create a positive niran will be edicated to 'greens roof', leducing waste heat generation and creating beneficial urban eco-habitats.


Stormwater collection system is being designed which will filter runoff and educe pressure on the public storm water system. This extensive perimeter stormwater managemen system will be assisted by the andscaped open space, roof deck and permeable surfaces


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OVERALL PHASING PLAN - PHASE 1
sUBMISSION TO COUNCIL January 29,2024


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PVIEDO



TOWER 1 FLOOR PLAN
SUBMISSION TO COUNCIL January 29, 2024


BOLIVAR RD

TOWER 1
LEVEL 2 FLOOR PLAN
SUBMISSION TO COUNCIL January 29, 2024




LEVEL 1 FLOOR PLAN
submission to council January 29,2024

## 〇 OVIEDO



LEVEL 2 FLOOR PLAN
submission to council January 29,2024




CHRIS DIKEAKOS
CH ${ }_{\text {ARCHITECTS INC. }}^{\text {CHRIS DIKEAKOS }}$


[^0]OVERALL BUILDING ELEVATIONS
submission to council January 29, 2024

## 〇 OVIEDOPDTES



OVERALL BUILDING ELEVATIONS
submission to council January 29, 2024

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## Q OVIEDERTIES

MATERIAL LEGEND
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## MATERIAL LEGEND

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NORTH EAST ELEVATION

sOUTH WEST ELEVATION

## 


east elevation


WEST ELEVATION

## Q OVOPERTES



NORTH EAST ELEVATION


SOUTH WEST ELEVATION


WEST ELEVATION


SOUTH ELEVATION



















VIEW FACING SOUTH WEST FROM THE CORNER JUNCTION OF BOLIVAR ROAD AND 111 AVE.
submission to council January 29, 2024

sUBMISSION TO COUNCIL January 29, 2024


VIEW FACING SOUTH WEST FROM THE CORNER JUNCTION OF BOLIVAR ROAD AND 112 AVE.





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MATERIAL BOARD
submission to council January 29, 2024


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## Bolivar Multi-Family Residential Development

Contact Information
$\overline{\mathrm{VDZ}+\mathrm{A}}$
Fort Langley Studio
$102-9181$ Church
102-9181 Church Street
Fort Langley, British Columbia, V1M 2 R8
Mount Pleasant Studio
$102-355$ Kingsw
Vancouver, Siritish Columbia, V5T 3.J7


## Sheet List Table

| sneet Number | Sneet Tille |
| :---: | :---: |
| L-01 | COVER SHEETS |
| L-02 | OVERALL SITE PLAN |
| L-03A | LANDSCAPE PLAN L1 NORTH |
| L-03B | LANDSCAPE PLAN L1 CENTRAL |
| L-03C | LANDSCAPE PLAN L1 SOUTH |
| L-04 | L-04 LANDSCAPE PLAN T1- L6\&L22 |
| L-05 A | LANDSCAPE PLAN T2 - L6\& L7 |
| L-05 B | LANDSCAPE PLAN T2-L8 \& L37 |
| L-06 | LANDSCAPE PLAN T3-L10\& L25 |
| LP-01 | PLANTING PALETTE |
| LS-01 | SECTIONS |
| LS-02 | SECTIONS |
| LS-03 | SECTIONS |
| LD-01 | DETALLS |
| LD-02 | DETALLS |
| LD-03 | DETALLS |
| LD-04 | DETALLS |



Primary project contact
Phoenix Chan PhoenixChan
phoonixerdz.
Tel: ( 604 ) 546 -09
Alternate contacts (incase away):
Mark van der Zaim Mark van der Zalm
Principal Landscape Architect Tel: : (604) 544-0920










(1) SECTION A - THROUGH Bolivar AVE. $\qquad$

(3) $\frac{\text { SECTION C-THROUGH BOLIVAR AVE. }}{\text { Sal }}$
(4) $\frac{\text { SECTION D - THROUGH } 112 \text { AVE. }}{\text { Sale } 1 \text { BO }}$

$\qquad$


(2) $\frac{\text { SECTION B-THROUGH BOLIVAR AVE. }}{\text { seal } 1 \text { ISO }}$.

$\int_{\text {KEY MAP }}^{\text {1:000 }}$ -.



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All components as spocififo or approved altema
. Expansion jonte everry 300omm oc. both ways
(5) Concrartit Paving




TO: Director, Area Planning \& Development

- North Surrey Division

Planning and Development Department
FROM: Development Services Manager, Engineering Department
DATE: January 23, 2024 PROJECT FILE: 7823-0234-00
RE: $\quad$ Engineering Requirements
Location: 13307 King George Blvd., 11151 Bolivar Rd., and 13340 - 112 Ave
OCP AMENDMENT \& CCP AMENDMENT
The following issues are to be addressed as a condition of the OCP Amendment/NCP Amendment:

The applicant is required to complete a sanitary sewer capacity analysis downstream of the subject application due to the proposed Land use plan amendment which will result in increased population and subsequent sanitary demand. The applicant will be required to resolve any downstream pipe capacity constraints.

## REZONE/SUBDIVISION

## Property and Right-of-Way Requirements

- Dedicate 0.942 m on Bolivar Road;
- Dedicate 3 mx 3 m corner cut at Bolivar Road and 112 Avenue;
- Dedicate 1.942 m on 112 Avenue; and
- Register 0.5 m statutory right-of-way (SRW) along Bolivar Road and 112 Avenue road frontages for maintenance.


## Works and Services

- Construct north side of King George Boulevard;
- Construct west side of Bolivar Road;
- Construct south side of 112 Avenue;
- Construct concrete letdowns to Bolivar Road and 112 Avenue;
- Construct adequately-sized service connections (drainage, water, and sanitary), complete with inspection chambers/water meter, to the lot; and
- Construct required servicing mains (drainage, water, and sanitary) along the site frontage in order to meet frontage requirements and to provide servicing to the development site.


## DEVELOPMENT PERMIT

There are no engineering requirements relative to issuance of the Development Permit.


Jeff Pang, P.Eng.
Development Services Manager
M51

## Surrey Schools <br> LEADERSHIP IN LEARNING

| Department: | Planning and Demographics |
| :--- | :--- |
| Date: | January 16, 2024 |
| Report For: | City of Surrey |

Development Impact Analysis on Schools For:
Application \#: 23023400

| The proposed development of |
| :--- |
| are estimated to have the following impact on elementary and secondary schools |
| within the school regions. |


| School-aged children population projection | 35 |
| :--- | :--- |


| Projected Number of Students From This Development In: |  |
| :--- | :--- |
| Elementary School $=$ | 19 |
| Secondary School $=$ | 10 |
| Total Students $=$ | 29 |

Current Enrolment and Capacities:
site used for enrolling clas d is projected to grow by 450 students over the the District received capital funding approval from the Ministry to build a 500-capacity addition, targeted to open in the fall of 2027


Note: If this report is provided in the months of October, November and December, the 10 -year projections are out of date and they will be updated in January of next year.


Note: If this report is provided in the months of October, November and December, the 10 -year projections are out of date and they will be updated in January of next year.
Population : The projected population of children aged 0-17 impacted by the development.
Enrolment: The number of students projected to attend the Surrey School District ONLY.

Table 3 : Tree Preservation Summary
Surrey Project No: TBD
Address: 11307 King George Blvd, 11151 Bolivar Rd, 13340112 Ave, Surrey, BC.
Registered Arborist: D.Glyn Romaine - ISA Certified Arborist PN-7929A

| On-Site Trees | Number of Trees |
| :---: | :---: |
| Protected Trees Identified <br> (On-site and shared trees, including trees within boulevards and proposed streets and lanes, but excluding trees in proposed open space or riparian areas) | 9 |
| Protected Trees to be Removed | 9 |
| Protected Trees to be Retained <br> (Excluding trees within proposed open space or riparian areas) | 0 |
| Total Replacement Trees Required: <br> Alder \& Cottonwood Trees Requiring 1 to 1 Replacement Ratio $5 x \text { one }(1)=5$ <br> All other Trees Requiring 2 to 1 Replacement Ratio $4 x \text { two }(2)=8$ | 13 |
| Replacement Trees Proposed | 72 |
| Replacement Trees in Deficit | 0 |
| Protected Trees to be Retained in Proposed [Open Space / Riparian Areas\} | 37 |
| Off-Site Trees | Number of Trees |
| Protected Off-Site Trees to be Removed | 1 |
| Total Replacement Trees Required: <br> Alder \& Cottonwood Trees Requiring 1 to 1 Replacement Ratio $0 x \text { one }(1)=0$ <br> All other Trees Requiring 2 to 1 Replacement Ratio $1 \times \text { two }(2)=2$ | 2 |
| Replacement Trees Proposed | 0 |
| Replacement Trees in Deficit | 2 |

Summary, report, and plan prepared and submitted by: D.Glyn Romaine

(Signature of Arborist)

December 05, 2023
Date


## DEVELOPMENT VARIANCE PERMIT

NO.: 7923-0234-00
Issued To:
(the "Owner")

Address of Owner:

1. This development variance permit is issued subject to compliance by the Owner with all statutes, by-laws, orders, regulations or agreements, except as specifically varied by this development variance permit.
2. This development variance permit applies to that real property including land with or without improvements located within the City of Surrey, with the legal description and civic address as follows:

Parcel Identifier: on-154-110
Lot 1 Section 15 Block 5 North Range 2 West New Westminster District Plan 5347
13340112 Avenue
Parcel Identifier: o11-154-136
Lot 2 Section 15 Block 5 North Range 2 West New Westminster District Plan 5347
11151 Bolivar Road
Parcel Identifier: ou-154-462
Lot 3 Except: Part On Statutory Right Of Way Plan 5719, Section 15 Block 5 North Range 2 West New Westminster District Plan 5347

13307 King George Boulevard

> (the "Land")
3. (a) As the legal description of the Land is to change, the City Clerk is directed to insert the new legal description for the Land once titles have been issued, as follows:

Parcel Identifier:
(b) If the civic addresses change, the City Clerk is directed to insert the new civic address(es) for the Land, as follows:
4. Surrey Zoning By-law, 1993, No. 12000, as amended, is varied as follows and as shown in Schedule A:
(a) In Section B.ı in Part 7A, Stream Protection, the minimum streamside setback distance for a Class A (red-coded) Natural Stream is reduced from 30 metres to a minimum of 19.2 metres, measured from top of bank.
5. The Land shall be developed strictly in accordance with the terms and conditions and provisions of this development variance permit.
6. This development variance permit shall lapse if the Owner does not substantially start any construction with respect to which this development variance permit is issued, within two (2) years after the date this development variance permit is issued.
7. The terms of this development variance permit or any amendment to it, are binding on all persons who acquire an interest in the Land.
8. This development variance permit is not a building permit.




OCP Amendment 23-0234-00
OCP Amendment to Figure 16: Downtown Densities from "Multiple Residential" to "Downtown 3.5 FAR".

# Advisory Design Panel Minutes 

| Present: | Guests: |
| :--- | :--- |
| Panel Members: | Richard Bernstein, Chris Dikeakos Architects Inc |
| N. Couttie, Chair | Mani Mahmoudian, Chris Dikeakos Architects Inc |
| S. MacRae | Kanwar Dhamrait, Oviedo Group |
| M. Mitchell | Tom Gill, Tangerine Developments |
| J. Packer | Mark van der Zalm, Van Der Zalm \& Associates |
| R. Salcido | Dylan Chernoff, Durante Kreuk Ltd. |

## Staff Present:

A. McLean, City Architect
S. Maleknia, Senior Urban Design

Planner
A. Yahav, Clerk 3

## A. RECEIPT OF MINUTES

It was
Moved by J. Packer
Seconded by R. Salcido
That the minutes of the Advisory Design Panel meeting of November 23, 2023, be received.

Carried

## B. NEW SUBMISSION

1. 4:05 p.m.

File No.:
New or Resubmit:
Last Submission Date:
Description:

Address:
Developer:
Architect:
Landscape Architect:
Planner:
Urban Design Planner:

7923-0234-00
New
N/A
The application includes a Rezoning from CHI to CD (Based on RM-135 and C-8), OCP Amendment from "Multiple
Residential" to "Downtown 3.5", City Centre Plan
Amendment from "Low to Mid Rise" to "Mid to High Rise Mixed Use", and Development Permit for Sensitive Ecosystems \& Hazard Lands in order to allow for 3 towers ( 21,24 and 37 -storeys), with a total of 967 residential dwelling units, and 237 sq . m. of commercial space. The overall gross FAR is 4.19 .
13307 KGB, 11151 Bolivar Rd. \& 13340112 Avenue)
BC1333828 Ltd
Richard Bernstein, Chris Dikeakos Architects Inc
Mark van der Zalm, Van Der Zalm \& Associates
Ingrid Matthews
Sam Maleknia

The Urban Design Planner gave an overview of the policy and area context, proposed FAR and the riparian interface, including dedications and rights of way. He advised that staff has worked with the applicant to enhance and conceptualize the overall site plan and massing, and generally supports the overall project.

The Panel was asked to comment on the form, architecture, programming, public realm interfaces, and landscape concept.
The Project Architect presented an overview of the site planning, 3D flythrough, streetscapes, building concept, and 3D Views.

The Landscape Architect presented an overview of the general concept for the Landscape design.

## ADVISORY DESIGN PANEL STATEMENT OF REVIEW

It was
Moved by M. Mitchell
Seconded by S. MacRae
That the Advisory Design Panel (ADP) SUPPORT
the project and recommends that the applicant address the following issues to the satisfaction of the Planning \& Development Department.

Carried

## Key Points

- Consider some covered amenity spaces and walkways.

Canopies around amenity spaces and walkways have been provided. Please refer to sheets A221, A240, A254, A400 set, A500 sheets and Landscape set.

- Consider further integration of the phase one and phase two styles to create a stronger relationship between them.
This has been discussed with Planner and decided to keep the styles different for the two phases to provide distinctive identities. We feel there are enough visual references through colour materials and overall building massing and expression to provide cohesiveness between the phases without giving the design too much of a "project" look through repetition.
- Consider further development of energy modelling.

Noted. We are in communication with our mechanical engineering consultant and will provide this as soon as the energy modelling is completed.

- Consider the addition of indoor and outdoor E-bike parking.

The architectural team will be providing indoor E-bike parking in the upcoming design development stages. The Landscape team has provided outdoor E-bike parking which is noted on plan. See drawing L-03A and Detail 7 on LD-04.

Site

- Recommend providing better demonstration of improvements to creek area and setback area being proposed by the development that will allow this project to request the variance to reduce the required setback from (30m) to (20m). 4377 m 2 of low-value habitat will be converted to higher value forested habitat. Also,
refuse and structures from the stream and ravine top of back will be permanently removed from the riparian area.


## Form and Character

- Attractive building with handsome material choices. Consider emphasizing the lobby entry to the Phase 2 building.
The entry to the Phase 2 building is emphasized with a metal frame surrounding it. Please refer to sheets A254 and A514.

Landscape

- Recommend providing additional buffer between gym areas and public walkways.
Additional buffering has been done where possible, however the environmental setbacks and property line location at this end of the project make it difficult and, in some cases, - impossible to add more buffering. Significant plantings, and fencing have been provided to create a reasonable and, in some cases, - expansive buffer zone to public multi-use pathways. See drawing L-02 \& L-03A.
- Consider integrating some covered area along the creek side of the project to allow promenading and use in winter and rainy days.
Some covered area has been integrated into the amenity areas and additional overhang has been provided for by architecture. Pavilion added to the project between open lawn and community garden and on playground to cover the Twig Bench seating. See drawing L-03 A \& L-03B and Detail 8 on LD-02.
- Ensure all trees have adequate soil volume and depth.

All trees will have adequate soil volume to meet city of Surrey expectations from "Trees and Landscape".

- Ensure diversity in tree and shrub species for optimum wildlife habitat and four-season interest.
Care has been taken to provide diversity in planting palette to support pollinators and other wildlife. In addition, native and resilient plant communities have been considered and will be provided in a fully complete planting plan at finalized development permit drawings.
- Consider reviewing amenity areas to ensure weather protection. Some covered spaces have been added for the outdoor amenity spaces - particularly near the play area and for seating/social spaces adjacent. Pavilion added to the project between open lawn and community garden and on playground to cover the Twig Bench seating. See drawing L-03 A \& L-03B and Detail 8 on LD02.
- Consider providing dog relief stations for residents with pets.

Additional dog relief areas have been provided. Outdoor dog relief station added close to Tower 2 back side amenity entry. See drawing L-03B and Detail 6 on LD-04.

- Consider providing more diverse programming, including play spaces, active and passive zones, eating areas, and work or office zones.
The play offering in the outdoor amenity space is significantly diverse: play areas, passive social spaces, community gardening, outdoor kitchen and eating spaces, "work from home" spaces with plug ins for recharge of laptops and phones, walking loops, and stretching/exercise space - as well as ample space for outdoor performance or fitness programming.

CPTED

- No specific issues were identified.


## Sustainability

- Consider energy modeling at earlier stages of the project to help inform the design process.
Noted. We are in communication with the mechanical consultant and will provide this as soon as the modelling is completed.
- Consider using future climate files for thermal comfort modeling to test resiliency and ensure livability in the future.
Noted. This will be provided in our upcoming design development stages.
- Consider the location of HRVs and heat pumps at the early stages of the design; for a little bit more space, significantly better units can be produced. This will render higher efficiency, lower noise, better filtration, and (critically) summer bypass.
Noted. This will be provided in our upcoming design development stages.
- Consider high-quality bike amenities including good wayfinding for bicyclists, automatic door operators to ease entry and exit, ample room for cargo bikes and trailers, and electric bike charging.
Noted. This will be considered in our upcoming design development stages.
- Consider the addition of indoor and outdoor E-bike parking.

The architectural team will be providing indoor E-bike parking in the upcoming design development stages. The Landscape team has provided outdoor E-bike parking which is noted on plan. See drawing L-03A and Detail 7 on LD-04.

- Consider incorporating a bike maintenance area that can also serve as a casual space for interaction.
Provided. Please see Plans A200.
- Consider how bicyclists interact with pedestrians and drivers both on the ground plane and within buildings to inform layout and design decisions. A bike elevator shared with commercial has been provided in Phase 1 and will be opening onto the walkway facing Bolivar Road. This will allow for safe movement between loading trucks, cars and bicyclists. Please refer to sheets A200 to A203 and A210.
- Consider how best to encourage waste management with both a three-stream in-suite system and central recycling rooms that are well-lit, include sorting tables, and include pictograms to address language barriers.
Noted. This will be considered in our upcoming design development stages.
- Consider including a resilient water access point that residents can access in the event of a power outage so everyone can fill vessels when city water pressure will not reach the top of the towers. Noted. This will be included in our construction document stage of work.
- Consider opportunities to maximize operable window area and opportunities for cross ventilation for passive cooling and ventilation.
Residential units for all three towers and podium levels will have operable windows and/or patio doors facing their respective balconies. This is in addition to windows facing outwards from primary bedroom and living room areas. Also, corner larger units will have cross-ventilation in living rooms with exposures on two faces of the
buildings. Please refer to the A500 sheets set.
- Consider strategies for minimizing the potential for birds striking the building; this could include bird-friendly glazing, lighting design, and landscaping. Noted. This will be considered during our design development and construction document stages.

Accessibility

- No specific issues were identified.


## C. OTHER BUSINESS

## 1. Roundtable

A roundtable of discussion was held.

## D. NEXT MEETING

The next Advisory Design Panel is scheduled for Thursday, January 11, 2024.

## E. ADJOURNMENT

The Advisory Design Panel meeting adjourned at 6:47 p.m.

[^1]
## FIGURE 1



## DISTRICT ENERGY SERVICE AREA (SERVICE AREA A \& SERVICE AREA B)


[^0]:    EAST ELEVATION

[^1]:    Jennifer Ficocelli, City Clerk
    N. Couttie, Chairperson

