

Date: April 29, 2019

Honourable Selina Robinson

Broadway Subway Project

ISSUE

Broadway Subway Project

RECOMMENDED RESPONSE

- Once opened, regardless of the time of day or traffic conditions, the commute from Commercial Broadway Station to Arbutus Street will save the average commuter almost 30 minutes a day.
- B.C. is contributing 40 per cent (\$2.54 billion) of the capital costs toward Phase Two of the Mayors' Council Ten-Year Vision that includes rapid transit in Vancouver and Surrey.
- The Province, as the owner of the existing SkyTrain system, will carry TransLink's work forward in delivering the project.
- This project will result in thousands of direct and indirect jobs, supporting a strong and sustainable economy.
- We are also working with mayors to support the construction of affordable homes along this new rapid transit line by partnering on the implementation of Supportive Policies Agreements.

KEY CONSIDERATIONS

- Construction of the Broadway Subway is expected to begin in 2020 with service commencing in 2025.
- The RFQ was released to the public in February 2019, including confirmation that the Community Benefits Agreement will apply. The RFP is scheduled to be released in June, 2019.
- The total cost of the project is estimated at approximately \$2.83 billion
- The funding breakdown for Phase Two is:
 - Government of Canada: \$888.4 million
 - Government of British Columbia: \$1.82 billion
 - City of Vancouver: \$99.8 million (in-kind land contribution)
- It's estimated that this project will result in 7,190 direct jobs and 5,270 indirect jobs, and support economic and urban development within the region.
- The City of Vancouver's land use planning process for the project corridor, the "Broadway Plan" will be complete in December 2020.



Date: April 29, 2019

Honourable Selina Robinson

CONTACT: Jodi Dong, Executive Director, Community Policy and Legislation Branch

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Honourable Selina Robinson

Date: May1, 2019

HOUSING AND DENSITY ALONG TRANSIT LINES

ISSUE

Ensuring affordable housing and density along transit corridors

RECOMMENDED RESPONSE

- Transportation costs can take up a significant portion of a household's income, and living near transit can reduce those costs and make life more affordable.
- We are committed to working with local governments to support the construction of housing near transit corridors that people can afford.
- The Broadway Subway and Surrey-Langley SkyTrain will provide opportunities for new transit-oriented development and affordable housing in Vancouver and Surrey.
- We are working closely to implement agreements between TransLink and the cities to facilitate transit-oriented development, density and affordable housing along these corridors, and avoid displacement of existing residents.

KEY CONSIDERATIONS

- A 2015 Metro Vancouver study found that renter households earning less than \$50,000 spend a disproportionate amount on housing and transportation (up to 67 per cent of their pre-tax income).
- Proximity to transit can help offset high housing costs through reduced spending on personal vehicles.
- TransLink developed project agreements and Supportive Policies Agreements (SPAs) with Vancouver and Surrey for Phase Two rapid transit projects and will create a new SPA for Surrey-Langley SkyTrain (SLS).
- o 's.13; s.16
- SPAs provide density, housing policy and other objectives for new transit lines.
- Ministry staff participate in the monitoring committees to ensure progress and accountability on key performance indicators for density and affordable housing.

CONTACT: Jodi Dong, Executive Director, Community Policy and Legislation Branch, 778 698-3399



Date: April 30, 2019

Honourable Selina Robinson

Regional Transportation Strategy (Transport 2050)

ISSUE

 TransLink is preparing a new Regional Transportation Strategy (RTS) called Transport 2050 with an estimated completion date of December 2020.

RECOMMENDED RESPONSE

- Our government continues to work with all partners to make sure the plans that will shape future transportation and development in Metro Vancouver benefit the region as a whole.
- That is why we are committed to funding 40% of the capital costs of the Mayors' Council's Ten-Year Vision that includes important infrastructure projects, bus and HandyDART service improvements and provision for affordable housing along new transit lines.
- Affordable housing with access to transit must be a key goal of the RTS and I know the mayors share this view.
- By continuing to support the region as it sets its vision and priorities for the next 30 years, we are going to see even more progress for people living in Metro Vancouver and beyond.

KEY CONSIDERATIONS

- TransLink is required to consult with the Province on the RTS, which will ensure that provincial priorities are captured in the RTS and future 10-year investment plans.
- RTS development will include multiple phases of public consultation.
- Provincial staff are participating in a Regional Agency Advisory Group (RAAG) convened by TransLink. The RAAG includes staff from all levels of government who will have multiple opportunities to review and provide input on draft RTS content.
- o **IF ANNOUNCED ON MAY 3:** The Province will participate in the RTS process s.13

CONTACT: Jodi Dong, Executive Director, Community Policy and Legislation Branch

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BRIEFING NOTE FOR INFORMATION

Date: January 3, 2019

Prepared For: Honourable John Horgan, Premier

Title: Premier Meeting with City of Surrey Mayor

Issue: The Premier will be meeting with the City of Surrey mayor in early 2019. s.13

S.13

SUMMARY:

Surrey

 At their December 13th meeting, the Mayors' Council voted to proceed immediately with planning and project development work for SkyTrain on Fraser Highway.

- The resolution is subject to Surrey's agreement to compensate for all work plan costs unnecessarily expended to date. TransLink estimates those costs at \$56.6M.
- Mayor McCallum believes more than \$16M of those costs are TransLink's responsibility and says Surrey has no intention of providing financial compensation for the remaining \$40M; however, the City will look at land transfers as a form of compensation.
- Under the bilateral Public Transit Infrastructure Fund (PTIF) agreement, Canada may request the return of any funding it provided for cancelled or withdrawn projects. s.13; s.16; s.17 s.13; s.16; s.17

 The Province has not contributed to SNG LRT procurement readiness or early works.
- TransLink estimates a 2025 completion date for a line terminating at either Fleetwood or Clayton Heights, using the remaining \$1.58B of the original \$1.65B in Phase Two funding for Surrey rapid transit.
- Mayor McCallum believes the entire line can be built to Langley for the remaining \$1.58B if portions are built at grade; however, TransLink estimates \$2.9B for Surrey-to-Langley SkyTrain.
- Major projects are evaluated based on the province's Capital Asset Management Framework (CAMF), including the requirement for a detailed business case analysis. This framework will also apply to the Fraser Highway SkyTrain project.

BACKGROUND:

The Mayors' Council's 10-Year Vision included building 27 kilometers of Light Rail Transit (LRT) in Surrey. Phase Two of the Vision included the 10.5 km, \$1.65 billion Surrey-Newton-Guildford LRT (SNG LRT) project, while Phase Three included 16.6 km of LRT along the Fraser Highway from Surrey to Langley, estimated to cost \$1.9 billion. The Province has committed to funding 40 per cent of the capital costs of all phases of the Vision. Provincial and federal funding has been committed to Phase Two of the plan. The Province was contributing \$2.5 billion towards Phase Two projects, including SNG LRT.

Following the 2018 municipal elections, the City of Surrey requested that the Mayors' Council direct TransLink to cancel SNG LRT and instead extend SkyTrain along Fraser Highway towards Langley.



The Mayors' Council passed a resolution at its December 13, 2018 meeting to proceed with planning and project development work for Fraser Highway SkyTrain, subject to Surrey's agreement to compensate for costs unnecessarily expended to date.

The resolution also included cancelling a planned B-Line on the Fraser Highway, and initiating a planning process to refresh the South of Fraser rapid transit strategy. The project development work plan and the transit strategy refresh will proceed concurrently, with the work plan (including a business case for senior government) estimated to take 15 months, and the transit strategy 8 months. s.13 s.13

TransLink's enabling legislation also requires broad consultation on investment plans, including with the public, Metro Vancouver and affected municipalities and organizations. Any changes to the investment plan will trigger new public and stakeholder consultation.

DISCUSSION:

The approved Mayors' Council resolution from their December 13th meeting says Surrey will provide compensation for all "work plan costs unnecessarily expended to date." TransLink staff estimate those costs at \$56.6M including \$16.8M for PTIF 1 early works, (i.e. Bear Creek Bridge).

Mayor McCallum supported the December 13th motion; however, he believes the more than \$16 million in Bear Creek bridge costs are TransLink's responsibility and were needed to support TransLink's B-Lines. Furthermore, he says Surrey has no intention of providing financial compensation for the remaining \$40M; however, the city will look at land transfers as a form of compensation.

The proposed alignment concept for SkyTrain along Fraser Highway includes: 16 km of elevated SkyTrain, 8 stations (+1 future station), bus exchanges at Willowbrook and Langley Centre, 55 SkyTrain cars and allowance for new/expanded operations and maintenance facility.

While the current estimate for a SkyTrain line from Surrey to Langley is \$2.9 billion, Mayor McCallum believes it can be built using the remaining funding for SNG LRT, \$1.58 billion. TransLink maintains that the project would require two phases. The first phase would use available funding and would not reach Langley.

Density and Housing on Fraser Highway SkyTrain

TransLink staff report the mayors of Surrey, Langley City and Langley Township are all interested in discussing how to facilitate density along the new corridor. There will also be a new Supportive Policies Agreement (SPA) for the project, which will include affordable housing and density sections that will be monitored by the Province, equal to the process being followed on the Broadway Subway. 5.13 s.13

<u>Media</u>

In a recent media article, Mayors' Council executive director Mike Buda and Mayors' Council Chair, Jonathan Cote emphasized their focus on continuing to strengthen the regional relationship with the Province to further regional priorities. These priorities include providing discounted fares for people with low incomes and youths and getting provincial funding for HandyDART.

TransLink believes senior levels of government should provide the funding for expanded discounted fares as part of their responsibilities for social assistance, health and education s.13; s.17 s.13; s.17



s.13; s.17

s.13; s.17 The Mayors' Council 10-Year Vision calls for a 30% increase in HandyDART service. TransLink has suggested that approximately two thirds of HandyDART trips are health related. Drawing on this analysis, the Vision recommends that HandyDART services be delivered in a cost sharing partnership with the provincial government. In July, 2017, the Mayors' Council requested that the Province commit to a joint review of HandyDART services with TransLink and the Regional Health Authorities.

The Province does not currently provide operational funding for TransLink HandyDART services. In 1999, the Province assumed responsibility for Metro Vancouver's 40% share of regional hospital capital costs, which were previously funded from property taxes. The intent was to provide the necessary property tax room to generate revenue to fund expanded transportation and transit in the region. 's.13; s.17 s.13; s.17

Outside of Metro Vancouver, communities pay property taxes towards hospital capital costs^{s.13}; s.17 s.13; s.17

The different funding model results in BC Transit operating costs being partially funded through a provincial operating grant.

s.13; s.17

PREPARED BY:

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DATE APPROVED:

David Curtis, ADM Community and Management Services Division

Jacqueline Dawes, Deputy Minister

January 2, 2019
January 3, 2018



BRIEFING NOTE FOR DECISION

Date: March 6, 2019

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: Regional Transportation Strategy Engagement

Issue: s.13

SUMMARY:

 TransLink is legislated to prepare a long-term strategy every five years that sets out a 30-year plan for transit and transportation in the region. The long-term strategy is known as the Regional Transportation Strategy (RTS) and will take 15-18 months to complete.

- TransLink is required to consult with the Province as part of the RTS development process, which will ensure that provincial priorities are captured in both the RTS and in future TransLink 10 year investment plans.
- Ministry staff from across government are participating in the Regional Agency Advisory Group (RAAG) convened by TransLink. RAAG includes staff from all levels of government who will have multiple opportunities to review and provide input on draft RTS content.

s.13; s.16



BACKGROUND:

Section 193 of the *South Coast British Columbia Transportation Authority Act (SCBCTAA)* requires TransLink to prepare a long-term strategy every five years that sets out a 30-year plan outlining:

- 1. TransLink's goals and directions for the regional transportation system;
- 2. A description of key initiatives and other measures TransLink anticipates will be needed to achieve its goals; and
- 3. A statement of principles underlying the long-term strategy.

The long-term strategy is known as the Regional Transportation Strategy (RTS). TransLink is required to consult with the Province as part of the RTS development process, which will ensure that provincial priorities are captured in both the RTS and in future TransLink 10 year investment plans.

TransLink was scheduled to adopt a new RTS in 2018; however, the Mayors' Council voted to re-adopt the existing RTS to engage in a detailed RTS process in 2019 and 2020. There will be multiple public consultation periods and Mayors' Council's decisions throughout the process (*see Appendix 1*).

In preparing an RTS, TransLink must consider:

- 1. Regional land use objectives;
- 2. Provincial and regional environmental objectives, including air quality and greenhouse gas emission reduction objectives;
- 3. Anticipated population growth and economic development in the service area; and
- 4. Provincial transportation and economic objectives.

TransLink is planning to do this in several phases, each with its own separate deliverable:

- Long Range Scenarios Project (Plausible Futures) currently being developed
- 2. Desired Future (Vision, Goals, Targets, Performance Metrics)
- 3. Strategic Framework (Shared Roadmap)
- 4. Network Concept (Bike, Road, Transit)
- 5. 15-Year Implementation Blueprint

TransLink is also required to engage in public consultation in the development of the RTS to best meet the needs of residents and the region's communities over the next 30 years. TransLink must also consult with the Mayors' Council, Metro Vancouver, the Province and local governments in or adjacent to TransLink's service area, to ensure their interests are represented.

Regional Growth Strategy (RGS) link to the RTS

An RGS is a strategic regional planning policy document promoting settlement that is socially, economically and environmentally healthy and that also makes efficient use of public facilities, land and other resources. Metro Vancouver's current RGS was adopted in 2011 after it was accepted by all member municipalities, TransLink, Tsawwassen First Nation and adjacent regional districts. (See Appendix2 for regional district boundaries)



One of the primary goals of Metro Vancouver's RGS is to support sustainable transportation choices by coordinating land use and transportation. The RGS recognizes the critical links between the RGS and TransLink's RTS, as well as the role of the Province to support planning and funding transportation assets.

Adoption and significant amendment of the RGS requires TransLink's approval. Highlighting the importance of coordination with other governments and agencies, Metro Vancouver's RGS affirms the need to:

- Work with TransLink with the objective that the RGS and TransLink's regional transportation plans are compatible and complementary.
- Collaborate with TransLink, the federal government and the Province on major investments in the regional transportation system, expansion of affordable housing options, and the location of public facilities that support the goals and strategies specified in the RGS.
- Partner with neighbouring regional districts to facilitate the compatibility of regional growth planning and initiatives in Metro Vancouver and these neighbouring jurisdictions.

DISCUSSION:

TransLink is required to consult provincial government staff and the Minister before completing an RTS, and there are a number of opportunities to ensure provincial objectives and priorities are recognized in the RTS while respecting TransLink, local governments' and the public's lead role in the planning process. Provincial priorities include:

- Affordable housing along transit corridors;
- Improved access to transportation options;
- Integrating transportation planning with neighbouring communities; and
- Reducing congestion.

In addition, the Province recognizes that there are improvements to be made to the integration of cross-boundary transit service and sees the current update to the RTS as an opportunity to explore options for this type of improvement.

In the past, TransLink has worked with BC Transit to facilitate transit opportunities at the boundaries of TransLink's service area (e.g. Fraser Valley Express Service; and coordination on Sea to Sky transit planning). The West Coast Express, which begins outside TransLink's service area in Mission, is also integrated with TransLink's services.

s.13; s.16

While it is a priority for the Province to be an active participant and partner in the development of the RTS, the Province understands that the RTS is a regional responsibility. The Province is not seeking to approve individual projects or impose upon the established framework of the development of the RTS. However, the Province recognizes its strong relationship with the region and the opportunities this new relationship



presents for increased participation in the transportation and transit plans and priorities in Metro Vancouver for the next $30\,\mathrm{years}$.

FINANCIAL IMPLICATIONS:

s.13; s.16; s.17

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s.13; s.16; s.17



Appendices:

- 1. s.13; s.16
- 2. Regional District Boundaries
- 3. s.13; s.16

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David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division

Kathryn Krishna, Deputy Minister

DATE APPROVED:

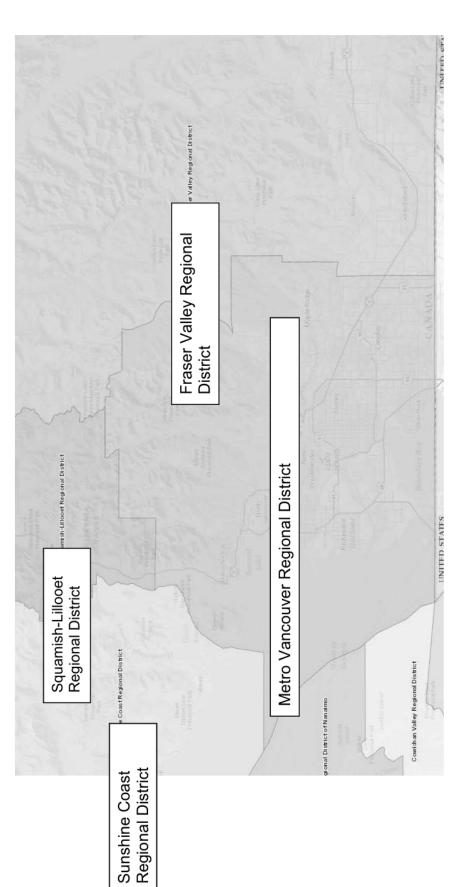
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s.13; s.16

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APPENDIX 2: Regional District Boundaries



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s.13; s.16



BRIEFING NOTE FOR INFORMATION

Date: March 13, 2019

Prepared For: Parliamentary Secretary Bowinn Ma

Title: Regional Transportation Strategy Engagement

Issue: s.13

SUMMARY:

 TransLink is legislated to prepare a long-term strategy every five years that sets out a 30-year plan for transit and transportation in the region. The long-term strategy is known as the Regional Transportation Strategy (RTS) and will take 15-18 months to complete.

- TransLink is required to consult with the Province as part of the RTS development process, which will ensure that provincial priorities are captured in both the RTS and in future TransLink 10 year investment plans.
- Ministry staff from across government are participating in the Regional Agency Advisory Group (RAAG) convened by TransLink. RAAG includes staff from all levels of government who will have multiple opportunities to review and provide input on draft RTS content.
- s.13; s.16

BACKGROUND:

Section 193 of the *South Coast British Columbia Transportation Authority Act (SCBCTAA)* requires TransLink to prepare a long-term strategy every five years that sets out a 30-year plan outlining:

- 1. TransLink's goals and directions for the regional transportation system;
- 2. A description of key initiatives and other measures TransLink anticipates will be needed to achieve its goals; and
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The long-term strategy is known as the Regional Transportation Strategy (RTS). TransLink is required to consult with the Province as part of the RTS development process, which will ensure that provincial priorities are captured in both the RTS and in future TransLink 10 year investment plans.

TransLink was scheduled to adopt a new RTS in 2018; however, the Mayors' Council voted to re-adopt the existing RTS to engage in a detailed RTS process in 2019 and 2020. There will be multiple public consultation periods and Mayors' Council's decisions throughout the process (*see Appendix 1*).

In preparing an RTS, TransLink must consider:

Regional land use objectives;



- 2. Provincial and regional environmental objectives, including air quality and greenhouse gas emission reduction objectives;
- 3. Anticipated population growth and economic development in the service area; and
- 4. Provincial transportation and economic objectives.

TransLink is planning to do this in several phases, each with its own separate deliverable:

- 1. Long Range Scenarios Project (Plausible Futures) currently being developed
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TransLink is required to engage in public consultation in the development of the RTS to best meet the needs of residents and the region's communities over the next 30 years. TransLink must also consult with the Mayors' Council, Metro Vancouver, the Province and local governments in or adjacent to TransLink's service area, to ensure their interests are represented.

Regional Growth Strategy (RGS) link to the RTS

An RGS is a strategic regional planning policy document promoting settlement that is socially, economically and environmentally healthy and that also makes efficient use of public facilities, land and other resources. Metro Vancouver's current RGS was adopted in 2011 after it was accepted by all member municipalities, TransLink, Tsawwassen First Nation and adjacent regional districts. (See Appendix2 for regional district boundaries)

One of the primary goals of Metro Vancouver's RGS is to support sustainable transportation choices by coordinating land use and transportation. The RGS recognizes the critical links between the RGS and TransLink's RTS, as well as the role of the Province to support planning and funding transportation assets.

Adoption and significant amendment of the RGS requires TransLink's approval. Highlighting the importance of coordination with other governments and agencies, Metro Vancouver's RGS affirms the need to:

- Work with TransLink with the objective that the RGS and TransLink's regional transportation plans are compatible and complementary.
- Collaborate with TransLink, the federal government and the Province on major investments in the
 regional transportation system, expansion of affordable housing options, and the location of public
 facilities that support the goals and strategies specified in the RGS.
- Partner with neighbouring regional districts to facilitate the compatibility of regional growth planning and initiatives in Metro Vancouver and these neighbouring jurisdictions.

DISCUSSION:

TransLink is required to consult provincial government staff and the Minister before completing an RTS, and there are a number of opportunities to ensure provincial objectives and priorities are recognized in the RTS while respecting TransLink, local governments' and the public's lead role in the planning process. Provincial priorities include:



- Affordable housing along transit corridors;
- Improved access to transportation options;
- Integrating transportation planning with neighbouring communities; and
- Reducing congestion.

s.13

TransLink's legislation requires consultation with the Minister on the RTS. s.13; s.16 s.13; s.16

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s.13

While it is a priority for the Province to be an active participant and partner in the development of the RTS, the Province understands that the RTS is a regional responsibility. The Province is not seeking to approve individual projects or impose upon the established framework of the development of the RTS. However, the Province recognizes its strong relationship with the region and the opportunities this new relationship presents for increased participation in the transportation and transit plans and priorities in Metro Vancouver for the next 30 years.

FINANCIAL IMPLICATIONS:

At this point, the Province has not committed to any financial contribution toward the development of the RTS.



Appendices:

- 1. s.13; s.16
- 2. Regional District Boundaries
- 3. s.13; s.16

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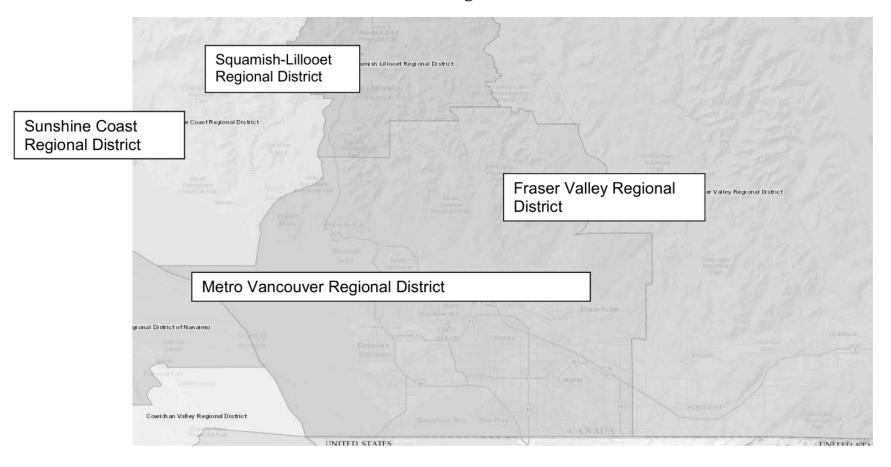
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s.13; s.16



APPENDIX 2: Regional District Boundaries



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s.13; s.16



BRIEFING NOTE FOR INFORMATION

Date: July 6, 2018

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: City of Vancouver Broadway Corridor Zoning

Issue: The City of Vancouver has passed an interim rezoning policy on the Broadway corridor

intended to curb speculation related to the Millennium Line Broadway Extension (MLBE).

SUMMARY:

• The City of Vancouver (City) has signed a Supportive Policies Agreement (SPA) with TransLink to secure transit-oriented densities and increased affordable housing along the Broadway Corridor. The Ministry is participating in this process.

- The new policies will be finalized through the two-year development of a new area plan for Broadway.
- In the meantime, to limit speculation and one-off development applications, the City has approved interim rezoning and CAC policies.

BACKGROUND:

The City of Vancouver is beginning its planning process for the Millennium Line Broadway Extension (MLBE) project corridor. The City's objectives for the Broadway planning process include creating more housing supply; affordable and rental housing close to transit; increasing the amount of job space; and securing public benefits and amenities. Broadway planning is expected to be complete in December 2020.

In order to limit speculation and avoid any one-off development applications that are not aligned with the future plan, the City informed the Province in April 2018 of its plans to adopt interim rezoning and CAC policies. Council heard that speculation on the corridor had already been taking place, and an independent consultant advised the City to introduce measures to stop speculative land value increases that could put future amenity contributions out of reach. The interim policy is intended to signal to developers that the City is focused on preserving and growing affordable rental housing and job space along the corridor.

Rezonings on the Broadway corridor will not be considered during the Broadway planning process, with exceptions for: active rezoning applications; projects with 100 per cent social and/or supportive housing; community care facilities; group residences; and exceptional circumstances approved by Council.

On June 20th, 2018, the City also approved a "Development Contribution Expectation" (DCE) for the Broadway corridor. The DCE will function as an early Community Amenity Contribution (CAC) and will only apply to the limited areas where additional strata density would be considered. The DCE will be levied on incremental density beyond what is currently allowed, at a rate of \$330 or \$425 per square foot, depending on the location. The rates were calculated based on current market conditions, and any revenue collected will fund community amenities such as affordable housing.

DISCUSSION:

s.12; s.13



s.12; s.13

 $^{
m s.12;\,s.13}$ The City is a signatory to the SPA with TransLink for MLBE, which commits the City to setting and meeting affordability and

density objectives. The Province is participating in the SPA's steering committee, with input into targets, policies and monitoring to ensure these objectives are met.

The City's interim rezoning policy supports the Province's goals for affordable, transit-oriented housing by limiting speculation and protecting the City's ability to deliver on its Broadway planning goals, which include: creating additional affordable housing and rental opportunities; maximizing below market rental; preserving existing rental and mitigating displacement of renters; increasing job space; and securing additional public benefits and amenities. The City will also examine how the Province's decision to enable rental zoning can be applied on the corridor to protect existing rental units and secure new rental developments.

As part of the Broadway planning process, the City will adopt an affordable housing strategy for the corridor, including affordable housing targets by location, housing type, target income and tenure. s.13; s.16

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July 6, 2018 July 6, 2018

DATE APPROVED:

Jacqueline Dawes, Deputy Minister



BRIEFING NOTE FOR INFORMATION

Date: September 19, 2018

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: TransLink

Meeting With: Kevin Desmond, CEO and Geoff Cross, Vice-President, Planning and Policy, TransLink on

September 25, 2018

BACKGROUND:

TransLink has proposed the following agenda for the September 25, 2018, meeting:

1. Progress of Phase Two Investment Plan

- 2. Long-Range Planning Exercise (Regional Transportation Strategy)
- 3. Fare Policy Low Income Youth Fares
- 4. HandyDart
- 5. Disability Rights Legislation
- 6. Affordable Rental Housing Supply
- 7. Ridesharing
- 8. Low-Carbon Fleet Strategy, Environmental Approach
- 9. Future Vancouver and Surrey Developments

DISCUSSION:

1. Progress of Phase Two Investment Plan

• The Province will introduce parking rights tax legislation in fall 2018 and motor fuel tax legislation in spring 2019 to help TransLink fund the regional share of Phase Two.

The Mayors' Council approved TransLink's Phase Two Investment Plan on June 28, 2018. In order to help TransLink fund the regional share of the Phase Two costs, the Province will introduce legislation to allow TransLink to increase parking rights tax from 21% to 24% (fall) and increase the motor fuel tax by 1.5 cents (spring 2019).

TransLink has forecasted additional motor fuel tax revenue as of January 1, 2019. s.13; s.17 s.13; s.17

2. Long-Range Planning Exercise (Regional Transportation Strategy)

- TransLink has invited the Province to participate in updating its long-term Regional Transportation Strategy (RTS), to be completed by 2019-2020.
- Provincial staff will participate, and government will discuss broader partnership over the coming weeks.

TransLink is responsible for developing long-term strategies to address future transportation needs, and the *South Coast British Columbia Transportation Authority Act (SCBCTAA)* requires TransLink produce a long-term Regional Transportation Strategy (RTS) every five years. The RTS sets TransLink's long-term goals and direction and informs its Investment Plans.



TransLink's RTS was due to be updated by August 1, 2018. However, TransLink's Board and Mayors' Council re-adopted the existing RTS on June 28, 2018 in order to meet the legislative deadline. TransLink is now undertaking a comprehensive RTS update, to be completed by 2019-2020.

s.12; s.13

3. Fare Policy - Low Income - Youth Fares

• TransLink issued fare review recommendations in July 2018, which included exploring new low-income, children and youth discounts in the context of the B.C. Poverty Reduction Strategy.

In 2016, TransLink launched a four phase review of the way it prices conventional transit, including the feasibility of implementing different fare structures (e.g., distance or time-based fares); fare products (e.g., discounts); and fare prices.

TransLink released its final report and recommendations in July 2018. One recommendation was to create separate classes for children, youth and senior riders in order to offer flexibility in targeted discounts in the future. Currently those groups pay the same concession fare with no ability to offer different fare products. The report also recommended enabling these discounts through discussions with the Province, particularly in the context of the B.C. Poverty Reduction Strategy.

TransLink will make a decision on the fare review recommendations and how they will be implemented by December 2018.

HandyDART

- s.13; s.17

As part of the Mayors' Council's 10-Year Vision, TransLink is increasing HandyDART service hours by 15 per cent (up to 171,000 additional trips) beginning in 2017 (Phase One) and an additional 7 per cent by 2021 (Phase Two) when compared to 2016 service levels. Phase Two improvements will amount to an additional 76,000 additional trips annually by 2021, with 20 new buses to support the increase.

s.13; s.17



4. Disability Rights Legislation

- The federal government introduced national disability rights legislation in June, 2018.
- The federal legislation does not appear to apply to TransLink; however, s.13; s.16
 s.13; s.16

The federal government introduced national disability rights legislation on June 20, 2018. The *Accessible* Canada Act legislation will require federally regulated sectors, including transportation that crosses provincial and international borders, to identify and remove barriers for people with disabilities.

While the new federal legislation does not appear to affect TransLink, \$.13; \$.16; \$.17 \$.13; \$.16; \$.17

The Province's goal to "Build a Better B.C. for People with Disabilities" by 2024 includes providing accessible transportation options. As part of that work, SDPR met with TransLink to discuss and support accessible transportation. s.13; s.16

s.13; s.16

5. Affordable Rental Housing Supply

The Province is participating in Supportive Policies Agreements (SPAs) between TransLink and the
Cities of Vancouver and Surrey, which will require annual reporting on development along the new
rapid transit corridors, including affordable housing.

The 2018 Budget and Speech from the Throne identified housing affordability and density along transit corridors as key government commitments. Accordingly, the Province has been working closely with TransLink and the cities of Surrey and Vancouver to incorporate these goals into the Broadway Subway and Surrey-Newton-Guildford Light Rail Transit (SNG LRT) projects.

TransLink has adopted separate Supportive Policies Agreements (SPAs) with the Cities of Vancouver and Surrey. The Province is playing a key role in the SPAs, including: jointly creating annual performance reporting indicators, such as development activity and affordable housing; and participating in performance and monitoring committees.

6. Ridesharing

- TransLink has expressed an interest in consulting with the Province on the integration of ridesharing with the regional transportation system.
- The Province will reach out to TransLink in September as part of its policy consultation process.

The Province committed to address the taxi industry's long standing concerns with the current regulatory framework and respond to increased consumer demand for ridesharing services. On July 19, 2018 the Hara Report was released and Minister Trevena announced changes to immediately increase the supply of taxis in the Province by 15 per cent and pave the way for ridesharing by fall 2019.

On August 9, 2018, TRAN received a submission on ridesharing from TransLink's Regional Transportation Advisory Committee. The report also highlighted a strong regional interest and role in of these services and



an interest in further discussions with TRAN on the topic. TRAN plans on consult with TransLink on policy by the end of September.

7. Low-Carbon Fleet Strategy, Environmental Approach

 TransLink is conducting electric bus trials as part of its commitment to develop a Low-Carbon Fleet Strategy to reduce emissions from transit vehicles across the region.

TransLink's Phase One Investment Plan included a commitment to develop a Low-Carbon Fleet Strategy to reduce emissions from transit vehicles across the region. To facilitate this shift, TransLink has planned a two-and-a-half year study to test four electric-battery buses, beginning in 2019.s.13; s.17 s.13; s.17

TransLink also announced the arrival of the first of 106 new compressed natural gas (CNG) buses in May 2018. With the new CNG buses, more than half of TransLink's fleet will use cleaner technology, with 262 electric trolleys, 252 CNG and 252 hybrid diesel buses. s.13; s.16 s.13; s.16

8. Future Vancouver and Surrey Developments

- UBC will continue to pursue rapid transit throughout 2018 and 2019, for inclusion in the RTS.
- TransLink is briefing City of Surrey municipal candidates on the effects of cancelling SNG LRT, should a
 future city council attempt to do so.

In April, 2018, UBC's Board of Governors passed a motion to pursue rapid transit to UBC. The motion included a commitment to explore UBC's contribution, such as: providing land for stations; collecting charges from developers; or providing a financial contribution through an extra transit levy. UBC wants to ensure that rapid transit to campus is included in the updated RTS, and it will continue to pursue the issue through 2018/2019.

s.13; s.16

With the pending municipal elections, candidates and some members of the public in Surrey are criticizing the SNG LRT project, as well as the decision to build the project prior to a Surrey-to-Langley rapid transit line. At least one mayoral candidate has publicly stated that he would abandon SNG LRT if elected.

TransLink is briefing Surrey municipal candidates on the effects of cancelling the SNG LRT project. s.13 s.13

PREPARED BY:

Stephen Harrison, Policy Analyst Community Policy and Legislation Branch (778) 698-9368 APPROVED BY:

Kevin Volk, ADM Community & Legislative Services Division

Jacqueline Dawes, Deputy Minister

DATE APPROVED:

September 19, 2018

September 19, 2018

Page 031 of 347 to/à Page 034 of 347

Withheld pursuant to/removed as



BRIEFING NOTE FOR INFORMATION

Date: April 3, 2019

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: Affordable Housing Commitments Along the Broadway Line

Issue: The Province is making a significant investment in the construction of the Broadway

Subway. As part of this funding commitment, the Province is working with TransLink and the City of Vancouver on the development of affordable housing along the proposed line.

Meeting With: Kennedy Stewart, Mayor, City of Vancouver on April 4, 2019

KEY MESSAGES:

 Transportation costs can take up a significant portion of a household's income, and living near transit can reduce those costs and make life more affordable.

- We are committed to working with local governments to support the construction of housing that people can afford near transit corridors.
- An increase in density along transit lines gives people more opportunities to use transit, reducing the number of cars on our roads, and allowing people to spend less time commuting, and more time with their friends and family.
- As part of our commitment to fund 40% of the capital costs of the Mayors' Council's 10-Year Vision, we are working with TransLink and the City of Vancouver to increase affordable housing options and density along the Broadway Subway line.
- The Broadway Subway will provide opportunities for new transit-oriented development and affordable housing in Vancouver and Surrey.
- We are working closely to implement the Supportive Policy Agreement between TransLink and the City to facilitate transit-oriented development, density and affordable housing along the Broadway corridor, and avoid displacement of existing residents.

BACKGROUND:

Funding

Phase Two of the Mayors' Council Ten-Year Vision includes building the Broadway Subway to bring SkyTrain from VCC-Clark to Broadway and Arbutus. The Broadway Subway, with an estimated budget of \$2.83 billion will be funded and delivered by the Government of B.C., with contributions from the Government of Canada and the City of Vancouver. The project will be delivered under the Community Benefits Agreement. The funding breakdown for Phase Two is:

• Government of Canada: \$888.4 million

Government of British Columbia: \$1.82 billion

• **City of Vancouver:** \$99.8 million (in-kind land contribution)

Additional funding of \$17 million was provided towards the full project cost under Phase One of the Vision.



As part of the Province's \$1.82 billion investment in the Broadway Subway, the Province is working with TransLink and the City of Vancouver on the development of affordable housing along the proposed line as part of a 'Supportive Policies Agreement' (SPA) between TransLink and the City.

Project Development

A request for qualifications (RFQ) was issued in February 2019 and will close in April 2019. The Ministry of Transportation and Infrastructure will then select up to three respondent teams to participate in the subsequent phase of the competitive selection process, which is the request for proposal (RFP) stage. Construction is expected to begin in 2020 with service commencing in 2025.

Early work on the project started in mid-February to prepare for subway construction starting in 2020. Current activities involve installing trolley wire poles and upgrading intersection signals and lampposts on routes adjacent to the corridor. This work will enable future trolley bus detours and keep people moving during construction of the Broadway Subway.

The Broadway Plan

In March, 2019, the City of Vancouver announced a public engagement strategy, called the Broadway Plan, to allow the city to develop transportation and land-use strategies around the Broadway Subway, including housing and transit needs.

The engagement process included a series of five open houses between March 7 and March 14, 2019, and an online survey that invited public involvement in planning for the Broadway corridor.

The City of Vancouver's key goals for the Broadway Area Plan include:

- Expand affordable housing opportunities (social housing, market and below-market rental) close to transit and jobs to accommodate the growing demand for rental housing in the city's core while preserving and reinvesting in the existing older affordable market rental housing and minimizing displacement of existing residents.
- Increase the amount of job space within Central Broadway to meet long-term city, regional and provincial economic development objectives.
- Enhance commercial shopping streets and local business opportunities.
- o Improve the transportation network, public realm and gathering opportunities to increase mobility and connectivity and establish Broadway as a vital place to live, work and visit.
- o Secure additional public benefits and amenities to support new growth and improve livability.
- Become a leading example of zero-emissions buildings and vehicles to reduce carbon emissions and improve air quality.

The Broadway Area Plan is expected to be completed for Vancouver city council's consideration by late 2020.

DISCUSSION:

Supportive Policies Agreement

The Province is working with TransLink and the City of Vancouver to ensure that adequate and timely measures to promote densification and affordable housing occur along Broadway corridor. TransLink has adopted a 'Supportive Policies Agreement' (SPA) with the City, which commits them to a range of



measurable outcomes. The Province is playing a key role in implementing this agreement, by jointly developing annual reporting on indicators such as:

- Population growth;
- · Employment growth;
- Development activity;
- Zoned housing capacity; and
- Affordable housing.

The SPA includes the establishment of an Affordable Housing Strategy (AHS). As part of the Broadway Planning, the City will develop and adopt, in the context of the City's Housing Vancouver Strategy, an AHS for the Broadway Corridor, which will outline affordable housing targets by location, housing type, target income and tenure. The City will collaborate with TransLink and the Province on the development of the Affordable Housing Strategy, which will be completed by the end of 2021.

TransLink will collaborate with the City and the Province on the development of the AHS and will contribute technical information and analysis to the planning process as available and as appropriate.

SPA monitoring and performance committee meetings for the Broadway Subway will continue throughout 2019. There will also be a new SPA for the proposed SkyTrain along Fraser Highway project, which will include affordable housing and density sections that will be monitored by the Province, comparable to the process being followed on the Broadway Subway.

Broadway Extension to UBC

Vancouver is advocating for SkyTrain from Arbutus to UBC. Preliminary cost estimates range from s.12; s.13; s.17 s.12; Funding commitments from federal, provincial and regional governments would be required before a project could proceed. The City of Vancouver, the Mayors' Council and the TransLink Board of Directors have endorsed a SkyTrain Millennium Line extension from Arbutus Street to UBC as the technology basis to advance to the next stage of project development for Rail to UBC, including development of alternative concept designs and preliminary business case inputs. The construction of rail to UBC is outside of the Ten Year Vision.

PREPARED BY:

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David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division

Kathryn Krishna, Deputy Minister

DATE APPROVED:

April 3, 2019

April 3, 2019



BULLETS

Date: April 11, 2019

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Topic: Regional Transportation Strategy Engagement

Meeting With: Metro Vancouver Board Members on April 15th, 2019,

SUMMARY:

- Our government continues to work with all partners to make sure the plans that will shape future transportation and development in Metro Vancouver benefit the region as a whole.
- We remain committed to funding 40% of the capital costs of the Mayors' Council Ten-Year Vision that includes important infrastructure projects, bus and HandyDART service improvements and provision for affordable housing along new transit lines.
- We realise there is still much work to be done as demand for transit is only going to grow. That
 is why we are excited to work with the region on the long term transit and transportation
 priorities that will make life better for people living and working in the Lower Mainland.
- I invite Metro Vancouver to join a coordinating committee with myself, Parliamentary Secretary Bowinn Ma, and the Chair of the Mayor's Council to engage meaningfully on development of the Regional Transportation Strategy.
- s.13; s.16

BACKGROUND:

TransLink is legislated to prepare a Regional Transportation Strategy (RTS) every five years that sets out a 30-year plan for transit and transportation in the region. The RTS will take 15 to 18 months to complete. TransLink is required to consult with the Province as part of the RTS development process, which will ensure that provincial priorities are captured in both the RTS and in future TransLink 10-year investment plans.

s.13; s.16

PREPARED BY:	APPROVED BY:	DATE APPROVED:
s.13; s.16 undertaking a comprehens	1 0	Planning Committee supported
s.13; s.16		
number of working groups	s at various levels to feed into the development o	f the RTS.
s.13; s.16	Ministry staff are currently working	g with TransLink to establish a

Kate Mukasa, Manager, Priority Projects and Policy Community Policy and Legislation Branch (250) 361-6839 David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division

Kaye Krishna, Deputy Minister





BULLETS

Date: May 29, 2019

Prepared For: Kaye Krishna, Deputy Minister, Ministry of Municipal Affairs and Housing

Topic: TransLink Current Issues

Meeting With: Kevin Desmond, CEO, TransLink on June 4, 2019

Top Issues this month:

1. Regional Transportation Strategy

- 2. Phase Three Funding
- 3. SFU Gondola
- 4. Broadway Planning Process Housing
- 5. Ride Hailing

1. Regional Transportation Strategy (RTS)

Key Facts:

- The Province is committed to being an active participant and partner in the development of the RTS to ensure we are working towards mutually beneficial objectives.
- Staff at MAH, MOTI, Metro Vancouver and TransLink have been establishing levels of engagement
 with the RTS. The first meeting of the Principals committee with Minister Selina Robinson,
 Parliamentary Secretary Bowinn Ma, Mayors' Council Chair Jonathan Coté, and, Metro Vancouver
 Regional District Chair Sav Dhaliwal is being scheduled for late June (date TBC).
- An Executive Committee members (ADMs and Executives) meeting will take place 10-14 days in advance of the initial meeting.
- The first Project Management Committee meeting will take place on June 4th.
- Ministry staff are partnering with TransLink and Metro Vancouver on the first stakeholder engagement session on June 4th and will be presenting provincial priorities.

2. Phase Three Funding

s.13; s.16; s.17



s.13; s.16; s.17

TransLink is working toward a final investment plan for Phase Three by summer 2020.

3. SFU Gondola

Key Facts:

- A City of Burnaby staff report was presented to council on Monday, May 27th. Council endorsed the
 motion and next steps include public consultation on the project. If public support is received and
 the business case holds, senior governments could be looked at to confirm their share of funding.
- TransLink has indicated that they will be bringing the City of Burnaby motion to Mayors' Council in June for directions.13; s.17
- Currently, the Gondola project is outside of any federal funding program and not included in Phase Three of the Ten-Year Vision.
- s.13; s.16; s.17
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4. Broadway Planning Process

Key Facts:

- The City of Vancouver's land use planning process for the project corridor will be complete in December 2020. An initial public consultation was completed on April 7, 2019; additional public engagement opportunities will take place in mid-2019 and early 2020.
- The Supportive Policies Agreement between Translink and Vancouver identifies that an Affordable Housing Strategy for the Corridor will be developed with the Province. s.13; s.16
 s.13; s.16



s.13; s.16

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5. Ride hailing

Key Facts:

• TransLink will be meeting with Ministry of Transportation and Infrastructure staff in the next 2-3 weeks on regulations regarding ride hailing. Ministry staff will be dialing into the meeting.

PREPARED BY: APPROVED BY: DATE APPROVED:



BULLETS

Date: May 10, 2019

Prepared For: Kathryn Krishna, Deputy Minister of Municipal Affairs and Housing

Topic: Housing Affordability Along the Broadway Line

SUGGESTED RESPONSE:

- As part of our commitment to fund 40% of the capital costs of the Mayors' Council's 10-Year
 Vision, we are working with TransLink and the mayors to increase affordable housing options
 and density along rapid transit lines; this was part of our 30-Point Housing Plan.
- An increase in density along transit lines gives people more opportunities to use transit, reducing the number of cars on our roads, and allowing people to spend less time commuting, and more time with their friends and family.
- The Broadway Subway and Surrey to Langley SkyTrain will provide opportunities for new transit-oriented development and affordable housing in Vancouver and Surrey.

DISCUSSION:

The Province has been engaging with TransLink and the City of Vancouver as part of a Monitoring Committee overseeing the Supportive Policies Agreement (SPA) between the city and TransLink.

The SPA, signed in June, 2018, commits the city to a range of measurable outcomes and the Province is meant to play a key role in implementing these agreements, by jointly developing annual reporting on indicators such as:

- Population growth;
- Employment growth;
- Development activity;
- Zoned housing capacity; and,
- Affordable housing.

The SPA references several action points related to affordable housing including an Affordability Strategy in which the city commits to "...collaborate with TransLink and the Province on the development of the Affordable Housing Strategy." (see attachment). The SPA also notes that the Affordable Housing Strategy "...will be initiated in 2018 and completed by the end of 2021."

s.13; s.16

PREPARED BY:	APPROVED BY:	DATE APPROVED:
Kate Mukasa, Manager Community Policy and Legislation Branch	David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division	
(778) 698-9368	Kathryn Krishna, Deputy Minister	



Attachment: Supportive Policies Agreement Millennium Line Broadway Extension Project: Affordable Housing Excerpts

5.1 Land Use Plans (page 8)

- (a) The City will prepare and adopt the following Land Use Plans by the dates set out beside each Land Use Plan below, each of which will incorporate land uses and densities supportive of rapid transit and that meet the objectives of the Regional Growth Strategy:
 - (i) City Core 2050 initiate in 2018, complete by the end of 2021;
 - (ii) Broadway Planning initiate in 2018, complete by the end of 2021;
 - (iii) Vancouver Employment Lands Study initiate in 2018, complete by the end of 2019;

(collectively, the "Land Use Plans").

- (b) As a component of each Land Use Plan and upon the same timeline as set out for each respective Land Use Plan, the City will prepare forecasts for population, number of dwelling units and employment for the years 2025, 2030, 2035, 2040 and 2045 for:
 - (i) the area within 400 metres in any direction of the MLBE Corridor;
 - (ii) the area within 800 metres in any direction of the MLBE Corridor; and
 - (iii) traffic zones used in the March 2018 Project business case transit ridership modelling.

6.1 Affordable Housing Strategy (page 9)

- a) As part of Broadway Planning, the City will develop and adopt, in the context of the City's Housing Vancouver Strategy, an affordable housing strategy ("Affordable Housing Strategy") for the MLBE Corridor, which will outline affordable housing targets by location, housing type, target income and tenure.
- b) The City will collaborate with TransLink and the Province on the development of the Affordable Housing Strategy, which will be initiated in 2018 and completed by the end of 2021.
- c) TransLink will collaborate with the City and the Province on the development of the Affordable Housing Strategy and will contribute technical information and analysis to the planning process as available and as appropriate.

6.2 Existing Affordable Housing Stock (page 9)

The City will determine approaches to preserving and/or replacing existing housing stock and evaluate whether existing by-laws such as the Rental Housing Stock ODP and zoning need to be augmented. The City will also work with the Province to identify areas of overlap and potential partnerships in order to preserve the existing stock and to mitigate the impact of tenant displacement (e.g. RTA provisions, applicability of new rental only legislation). This work will be initiated in 2018, with a target completion by the end of 2021.

6.3 Purpose-Built Rental Housing (page 9)

As part of the Affordable Housing Strategy, the City will create additional programs/policies to incentivize purpose-built rental housing (for example, by providing additional density for purpose-built rental-housing and endeavouring to leverage recently announced provincial rental-only zoning powers for local government). This work will be initiated in 2018, with a target completion by the end of 2021.

6.4 Non-Market Housing (page 10)

As part of the Affordable Housing Strategy, the City will determine how many units of social housing will be targeted in the MLBE Corridor and whether such non-market housing is to be financed by developer contributions, partner contributions, and/or City contributions. This work will be initiated in 2018, with a target completion by the end of 2021.



BRIEFING NOTE FOR INFORMATION

Date: June 11, 2019

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: TransLink Board Members Potential Topics

Meeting: TransLink Board of Directors on June 18, 2019:

Murray Dinwoodie

Andy Ross

BACKGROUND:

TransLink is governed by a Mayors' Council and an independent Board of Directors. The Board meets four times a year on matters relating to TransLink's mandate and responsibilities.

Minister Selina Robinson and Deputy Minister Krishna will meet with the two government appointed Board members on June 14, 2019 in advance of the Board's second quarter meeting on June 19, 2019.

DISCUSSION:

The agenda items for TransLink's June Board meeting of highest relevance to the Province are annotated below. The full meeting agenda is provided in Appendix 1.

1. Surrey Langley SkyTrain (SLS) Project Update

- TransLink is refreshing the South Fraser Transportation Strategy concurrently with planning for the SLS to ensure the area's transit needs are met.
- The SLS Project Development Board met on Friday, April 26th. MAH attends in an advisory position.
 s.13 The next project board meeting is on Friday, June 14th.
- Public engagement concluded on April 26th and TransLink released the initial results from the engagement at the Mayors' Council public meeting on May 23rd. The engagement received the second greatest number of responses in the history of TransLink engagements. In Surrey and Langley, 85% of respondents show support for the proposed project.
- TransLink will be reporting back to the Mayors' Council in July on the scope, schedule and a cost
 estimate for the 16.5 km extension from King George to Langley Centre and will also present an
 MOU with Surrey that includes governance, the city's funding contribution, reimbursement of costs
 already spent on the former LRT project and information on the Supportive Policies Agreement
 (SPA).
- The new SPA for the SLS project, which has not yet been drafted, will include affordable housing
 and density sections that will be monitored by the Province, parallel to the Broadway Subway SPA.

s.13; s.16; s.17

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s.13; s.16; s.17

Discussion Point:

Once the Mayors' Council approves the scope of work in July, TransLink will begin work on a new business case for the project for senior government approval. TransLink estimates the business case will be ready for submission in early 2020 with approval from senior governments in March 2020. S.13; S.16; S.17

s.13; s.16; s.17

2. Broadway Subway Project Update

- The RFP is scheduled to be released on June 24th, pending approval. A short list of candidates is scheduled to be announced June 19th. A MAH DM briefing is scheduled for June 17th.
- MOTI will be revealing the new logo for the Broadway Subway Project during the Mainstreet Car Free Festival in Vancouver on Sunday, June 16th, 2019. Three area MLAs will attend.
- The City of Vancouver's Broadway Corridor Plan is planned for completion in December 2020. An initial public consultation was completed on April 7, 2019; additional public engagement opportunities will take place in mid-2019 and early 2020.
- The Supportive Policies Agreement between TransLink and Vancouver identifies that an Affordable Housing Strategy for the Corridor will be developed with the Province.s.13; s.16 s.13; s.16

Page 2 of 6



s.13; s.16

3. Transit Fare Review Implementation Update

- TransLink received more than 55,000 responses over the first three phases of public consultation on its fare review and conducted additional technical analysis and modelling.
- On June 18, 2018, TransLink launched Phase 4, seeking public comment on a recommended approach. Recommendations include short-term actions that TransLink could implement within one to two years:
 - Charging customers based on the number of kilometres they travel between SkyTrain and/or SeaBus stations;
 - Maintaining flat, system-wide bus and HandyDART fares;
 - Maintaining premium and zone-based pricing for West Coast Express; and
 - o Maintaining existing off-peak and age-based discounts and the 90-minute transfer window.
- The Transit Fare Review advanced a series of key recommendations across five components of the fare system and the Mayors' Council endorsed these final recommendations at its public meeting on July 24, 2018.
- TransLink's Fare Review also includes a recommendation to expand discounts for youth and the 45,000 low-income transit users who are currently ineligible for any discount. TransLink has said publicly that expanded discounts would require funding from the Province.
- On April 24, 2019 the Mayors' Council received and endorsed a TransLink report that recommends
 expanding discounts to low-income residents, children and youth on the basis that the
 Province pays for the additional costs.
- TransLink estimates the cost to provide free transit to youth (5-18) is \$40 million \$50 million and \$25 million \$40 million for low-income persons.
- TransLink has had discussions with Minister Shane Simpson and SDPR staff to include expanded transit discounts as part of the Poverty Reduction Strategy. s.13; s.17



o s.13

4. Transport 2050 (RTS) Update

- TransLink is developing Metro Vancouver's new Regional Transportation Strategy (RTS) called, "Transport 2050," to be complete by late 2020.
- The initial planning process includes consultation with the Province, local governments, the public and other stakeholders. The Phase 1 engagement period started in May and ends in September 2019.
- The Province is participating in the RTS process through a "Principals Forum" with Minister Robinson, Parliamentary Secretary Ma and the chairs of the TransLink Board of Directors, Mayors' Council and Metro Vancouver to ensure provincial housing and planning objectives are integrated.
- Staff are working on developing briefing materials for the Executive Committee and first principals
 meeting anticipated for late June. Materials will include a Terms of Reference, organizational
 structure and potential scope.
- Ministry staff are working with TransLink to establish several other working groups at various levels to feed into the development of the RTS, including a Project Management Committee, an Executive Committee and the Regional Agency Advisory Group (RAAG). The first meeting of the Project Management Committee was held on Tuesday, June 4th following the RTS stakeholder session.
- TransLink and Metro Vancouver partnered on a key stakeholder kick-off event to launch Transport 2050 engagement on June 4, 2019. Ministry staff delivered a presentation to outline some of the existing provincial initiatives that the B.C. government would like to see reflected in a new RTS.
- RAAG participants include provincial representatives from MAH, MOTI, the Ministry of Environment (ENV) and the Ministry of Jobs, Trade and Technology (JTT).

Although not on the agenda, additional potential topics for discussion could include:

5, s.13

s.13; s.16; s.17



• S.1	3; s.1	6; s.	17
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6. Burnaby Mountain Urban Transit Gondo	it Gondol	Transit	Urban	<i>Mountain</i>	Burnaby	6.
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- A City of Burnaby staff report was presented to council on Monday, May 27th. Council endorsed the
 motion and next steps include public consultation on the project. If public support is received and
 the business case holds, senior governments could be lobbied to confirm their share of funding.
- TransLink has indicated that they will be bringing the City of Burnaby motion to the Mayors'
 Council in June for direction, s.13; s.17
 s.13; s.17
- Currently, the Gondola project to Simon Fraser University is outside of any federal funding program and is not included in Phase Three of the Ten-Year Vision.

	and is not included in Phase Three of the Ten-Year Vision.
•	s.13; s.16; s.17

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Attachments:

1. Public Board Agenda Items

PREPARED BY:

Vanessa Day, Senior Policy Analyst Community Policy and Legislation Branch 778 698-3367 APPROVED BY:

DATE APPROVED:

David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division

June 11, 2019



ATTACHMENT 1: Public Board Agenda Items

- 1. Treasury Resolutions and Financial Risk Management Policies Update
- 2. Major Capital Projects Status Update (individual reports)
 - 1. Pattullo Bridge Condition Monitoring Report
 - 2. Surrey Langley SkyTrain Project Update
 - 3. Broadway Subway Project Update
 - 4. Expo Millennium Upgrade Program (EMUP) Status Update
- 3. Independent Transit Service Application Cypress Village Shuttle (2019)
- 4. Independent Transit Service Application Steveston Tourist Shuttle Service (2019)
- 5. HandyDART Users' Advisory Committee Membership Appointments
- 6. Universal Faregate Access Program and HandyDart Appeals Process
- 7. Transit Fare Review Implementation Update
- 8. Regional Parking Study Findings
- 9. Transit Service Partnerships
- 10. South of Fraser Rapid Transit Public Engagement Update
- 11. Transport 2050 Update
- 12. Regional Transportation Strategy: Regional Long-Range Growth and Transportation Scenarios
- 13. Annual Subsidiary Compliance Review
- 14. Review of Board Governance Manual and Articles



BRIEFING NOTE FOR INFORMATION

Date: June 21, 2019

Prepared For: Kathryn Krishna, Deputy Minister of Municipal Affairs and Housing

Title: Housing-Related Policies and Initiatives for Broadway Corridor

Issue: Transportation and land-use strategies for transit-oriented development and affordable

housing along the proposed Broadway Subway Line.

BACKGROUND:

Phase Two of the Mayors' Council Ten-Year Vision includes building the Broadway Subway extension of SkyTrain's Millennium Line from VCC-Clark Station to a new terminus at Broadway and Arbutus Street. It is expected that construction on the 5.7-kilometre Broadway Subway project will commence in 2020 and open in 2025.

To ensure the Broadway Subway Project met provincial expectations for affordable housing, in 2018 the Province worked with TransLink and the City of Vancouver (City) to be added as a participant to the monitoring committees in a Supportive Policies Agreement (SPA). The Province was not a signatory to the agreements s.13

S.13 In addition, the City is leading the Broadway Subway Plan to help develop a transportation and land-use strategy around the Broadway Subway, including housing and transit needs. The plan is expected to be completed for Vancouver City Council's consideration by late 2020.

DISCUSSION:

The Province's 30-Point Housing Plan includes a goal to increase density and affordable housing around TransLink stations. It is a priority for the Province to facilitate transit-oriented development, density and affordable housing along new rapid transit lines while avoiding displacement of existing residents. The following work by the Province, the City and TransLink is currently underway to ensure progress and accountability on key performance indicators for density and affordable housing are being met.

s.13; s.16



s.13; s.16

Housing Vancouver Strategy, Broadway Plan and other City of Vancouver Initiatives

Adopted in November 2017, **Housing Vancouver** is the City's 10-year strategy for addressing Vancouver's housing affordability crisis to 2027. The comprehensive city-wide initiative aims to retain existing affordable housing and facilitate the construction of new affordable housing affordable to local incomes.

Stabilizing land values along the Broadway corridor to prioritize the retention of existing affordable rental housing is one of the priority actions in the Housing Vancouver strategy. Specific strategies that may be applied along the Broadway Corridor include:

- Rental unit replacement requirements;
- Rental only-zoning;
- Density bonuses/rezoning/inclusionary zoning;
- Land sales and below market rates; and
- Community Amenity Contribution requirements during up-zoning.

In March 2019, the City launched a two-year planning process for Broadway as one action to facilitate implementation of the Housing Vancouver Strategy. The **Broadway Plan** will be specific to the area of Broadway between Clark Drive and Vine. It will focus on the integration of housing with future rapid transit stations along the Broadway Corridor. Among other goals, the Broadway Plan aims to address the need for deepening housing affordability and minimizing the displacement of existing tenants.

There are three City housing policy initiatives currently underway as part of the Housing Vancouver Strategy that will overlap with the Broadway Plan. These are:



Enhanced Tenant Relocation and Protection Policy (TRPP)

- The TRPP protects tenants by mitigating the impacts of displacement results from redevelopment activity.
- o Approved: June 2019

Review of Rental Housing Incentive Programs

- The City has a number of rental incentive programs to encourage the development of new market rental housing, created in response to the severe shortage of rental housing and extremely low vacancy rates.
- Anticipated Completion: 2019

Affordable Housing and Community Spaces Incentive Program (AHCSIP)

- The purpose of this program is to support non-profit societies including housing operators, societies, and places of worship to develop affordable housing.
- Anticipated Completion: 2020

Supportive Policy Agreement

In June 2018 the City of Vancouver and TransLink signed a **Supportive Policies Agreement** (SPA) with respect to the Broadway Subway Project.

The SPA identifies principles to guide transit-oriented development along the Broadway Corridor and identifies a range of measurable outcomes. The Province has been engaging with TransLink and the City as part of a Monitoring Committee overseeing the SPA and is meant to play a key role in implementing the SPA by jointly developing annual reporting on indicators such as:

- Population growth;
- Employment growth;
- Development activity;
- Zoned housing capacity; and
- Affordable housing.

Under the SPA, the City committed to determining approaches to preserve and/or replace existing housing stock and evaluating whether existing by-laws such as the Rental Housing Stock Official Development Plan (ODP) and zoning need to be augmented. The SPA states that it is the City's responsibility and mandate to develop and approve land use plans and housing policies, deferring the creation of targets to future planning work while working with the Province to create additional programs and policies to incentivize purpose-built rental housing.

Furthermore, the SPA includes the establishment of an **Affordable Housing Strategy**. As part of Broadway planning, the City will develop and adopt, in the context of the City's Housing Vancouver Strategy, an Affordable Housing Strategy for the Broadway Corridor, which will outline affordable housing targets by location, housing type, target income and tenure. The SPA states that the City will collaborate with TransLink and the Province on the development of the Affordable Housing Strategy, which is scheduled to be complete by the end of 2021. s.13; s.16



FINANCIAL IMPLICATIONS:

None

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Vanessa Day, Senior Policy Analyst Community Policy and Legislation Branch	David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division	
(778) 698-3367	Kathryn Krishna, Deputy Minister	



BRIEFING NOTE FOR INFORMATION

Date: June 25, 2019

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: Surrey Langley SkyTrain business case update

Issue: s.13; s.16

BACKGROUND:

TransLink presented an update of the Surrey Langley SkyTrain (SLS) business case to the SLS Project Board on June 21, 2019. The presentation included three possible scenarios for extending SkyTrain from King George Station to Langley City Centre:

s.13; s.16; s.17

DISCUSSION:

s.13; s.16; s.17

TransLink is developing a Supportive Policies Agreement (SPA) with the City of Surrey for the SLS. The SPA will include affordable housing goals and other project objectives to be developed and monitored by the Surrey, TransLink and the Province; Surrey has already started land use planning for the project corridor. If s.13; s.16

The Mayors' Council will review the proposed SLS scenario at its July 2019 meeting. If the Mayors' Council directs TransLink to complete the development of an SLS business case, TransLink will continue work on the SLS and its South of Fraser rapid transit strategy.

s.13; s.16; s.17

Attachments:



1. Implementation Scenarios Summary

PREPARED BY:	APPROVED BY:	DATE APPROVED:
Stephen Harrison, Senior Policy Analyst Community Policy and Legislation Branch (778) 698-9368	David Curtis, ADM Community and Management Services	
. ,	Kathryn Krishna, Deputy Minister	

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Withheld pursuant to/removed as

s.12; s.13; s.16; s.17



BULLETS

Date: June 26, 2019

Prepared For: Kaye Krishna, Deputy Minister, Ministry of Municipal Affairs and Housing

Topic: TransLink Current Issues

Meeting With: Kevin Desmond, CEO, TransLink on June 28, 2019

Top Issues this month:

1. Regional Transportation Strategy

2. Surrey Langley SkyTrain

3. CleanBC

4. Broadway Planning Process - Housing

5. Ride-hailing

1. Regional Transportation Strategy (RTS)

- The Province is committed to being an active participant and partner in the development of the RTS to ensure we are working towards mutually beneficial objectives.
- The next meeting of the C-Suite committee is being scheduled for the week of July 8th, with DM Kaye Krishna, CEO Kevin Desmond and CAO Carol Mason.
- The first meeting of the Policy-Makers Coordinating Forum with Minister Selina Robinson,
 Parliamentary Secretary Bowinn Ma, Mayors' Council Chair Jonathan Coté and Metro Vancouver
 Regional District Chair Sav Dhaliwal is July 18.
- Executive Committee members (ADMs and Executives) met on June 18th to review initial drafts of materials for both meetings.
- TransLink is hosting a Joint Vision, Goals and Objectives Workshop for the Project Management
 Committee on July 4th. The workshop is designed to arrive at a shared vision and set of principles
 that reflect the aspirations of TransLink, Metro Vancouver and the Provinces.13; s.16
 s.13; s.16

2. Surrey Langley SkyTrain (SLS)

TransLink presented an update on the SLS business case to the SLS Project Board on June 21, 2019, including three possible scenarios for advancing the project:s.13; s.16

1



s.13; s.16; s.17

•	The Mayors' Council will review the proposed SLS scenario at its July 2019 meeting. If the Mayors'
	Council directs TransLink to complete the development of an SLS business case, TransLink will
	continue work on the SLS and its South of Fraser rapid transit strategy.

s.13; s.16; s.17

TransLink is developing a Supportive Policies Agreement (SPA) with the City of Surrey for the SLS.
 If the project extends to Langley, TransLink will develop additional SPAs.

3. Clean BC

• s.13

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4. Broadway Subway Planning Process

- The City of Vancouver's land use planning process for the project corridor will be complete in December 2020. An initial public consultation was completed on April 7, 2019; additional public engagement opportunities will take place in mid-2019 and early 2020.
- The SPA between TransLink and Vancouver identifies that an Affordable Housing Strategy for the Corridor will be developed with the Province. TransLink has scheduled a meeting on July 9th to discuss.
- s.13; s.16

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The shortlist for the RFP for the Broadway Subway project was released on June 24th.

5. Ride hailing

- On June 17th, provincial staff (MOTI and MAH) spoke with an informal working group consisting of staff from TransLink, the City of Surrey, City of Vancouver, the Vancouver Airport Authority and UBC. The group recommended providing local governments with access to data and the ability to charge per trip fees.
- TransLink met with MOTI and MAH staff on June 24th regarding ride-hailing regulations. No major concerns were raised with the proposed regulatory framework.
- The Province may establish regional working groups to assist in the implementation of the new ride-hailing framework once the regulations are made public. *TransLink has offered to help facilitate local government consultations in Metro Vancouver.*

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BRIEFING NOTE FOR INFORMATION

Date: June 27, 2019

Prepared For: Kaye Krishna, Deputy Minister, Ministry of Municipal Affairs and Housing

Title: Transportation 2050 Vision, Goals and Objectives Workshop

Issue: July 4th Workshop hosted by TransLink and Metro Vancouver to begin drafting the shared

vision and goals for the Regional Transportation Strategy, "Transport 2050".

BACKGROUND:

On July 4, 2019, TransLink is hosting the first of a series of workshops over the summer to support the development of the "Transport 2050" Regional Transportation Strategy (RTS). The Province (MAH and MOTI) and Metro Vancouver will be in attendance. (Refer to Attachment 1 for agenda).

The purpose of the workshop is in part to meet requirements set out in TransLink's legislation to update its RTS every five years, and in doing so must consider:

- (a) Regional land use objectives,
- (b) **Provincial and regional environmental objectives,** including air quality and greenhouse gas emission reduction objectives
- (c) Anticipated population growth in, and economic development of, the transportation service region; and
- (d) Provincial transportation and economic objectives.

The workshop is also in partnership with Metro Vancouver, as the two agencies are jointly developing a vision, values, and goals both for the RTS and the update to Metro Vancouver's Regional Growth Strategy (RGS). TransLink is also considered an "affected local government" in the RGS, and must adopt any amendments made to it.

The workshop will draw on the existing RTS strategic framework (see attachment "RTS Strategic Framework 2013); consideration of what other jurisdictions are doing and be informed by early learnings from the Phase 1 engagement on the public's values and vision for the region (see attachment "Background Information Package").s.13

DISCUSSION:

s.13

The workshop is designed to provide for initial discussions on a shared vision and set of principles that reflect the aspirations of TransLink, Metro Vancouver and the Province; s.13 s.13

A background information package is attached which includes preliminary results of the 11,000 completed surveys obtained to date as part of the Phase 1 engagement and Metro Vancouver and Provincial strategic initiatives. The Ministry has shared public provincial documents such as MSR and MCT mandate letters; CleanBC; and the 30-Point Housing Plan. TransLink has also sourced Government's Strategic Plan; the Budget Plan; and the Speech from the Throne as inputs for consideration.



s.13

These principles would frame the provincial interest in the RTS and RGS. They align with the 2013 RTS principles which will be reviewed at the workshop, which state that TransLink is committed to advancing transportation solutions as in the table below.

2013 Regional Transportation Strategy Principles			
1. Outcome- driven	TransLink and its regional partners will take a performance-based approach in planning.		
2. Seamless	Users have a right to expect that the system will be managed seamlessly, efficiently and responsibly.		
3. Resilient	Will recognize our vulnerability to forces beyond our control and seek out and prioritize solutions that best prepare us for a range of possible futures.		
4. Affordable	Initiatives will be mindful of other needs and regional priorities. Investment plans will be designed so that they can be implemented in a timely way and have public support for both the level and sources of funding.		

Metro Vancouver's vision and goals from the region's Affordable Housing Strategy were also included in the background materials for discussion, and also align as in the table below.

Metro Vancouver's Affordable Housing Strategy:			
Vision	A diverse and affordable housing supply that meets the needs of current and future regional residents.		
Goals	 Expand the supply and diversity of housing to meet a variety of needs. Expand the rental supply and balance preservation of existing stock with redevelopment while supporting existing tenants Meet housing demand estimates for very low and low income earners Increase the rental housing supply along the Frequent Transit Network End homelessness in the region 		



s.13; s.16

Attachments:

- 1. Workshop Agenda
- 2. RTS Strategic Framework 2013-Excerpt with Principles
- 3. Excerpt from the current Regional Transportation Strategy Strategic Framework, adopted in 2013.
- 4. Inventory of Themes in Selected Regional Strategies
- 5. Vision Statements in Regional Strategies
- 6. Visioning Workshop Background Information Package

PREPARED BY: APPROVED BY:

Vanessa Day, Senior Policy Analyst Community Policy and Legislation Branch (778) 698-3367

David Curtis, Assistant Deputy Minister Community and Management Services Division

July 1, 2019

DATE APPROVED:



ATTACHMENT 1:

Regional Visioning and Goals Workshop Meeting Agenda

DATE OF MEETING: Thursday July 4th, 2019. 2:00 to 5:00pm

LOCATION: TransLink Sapperton Offices, 287 Nelson's Court, Rm 407,

New Westminster, BC. (Check-in at 4th floor reception)

ATTENDEES:

TransLinkMetro VancouverProvince of BCAndrew McCurranHeather McNellJodi DongKeane GruendingSean TynanDavid GreerFay ThompsonErin RennieStephen J Harrison

Fay Thompson Erin Rennie
Maria Su Raymond Kan

Dan Firth

FACILITATORS:

Tony Vi, Saki Aono, Peter Lipscombe, Jason Adle

MEETING OBJECTIVES:

• Engage TransLink, Metro Vancouver and Provincial staff to develop a shared or aligned goals for the next Regional Transportation Strategy (RTS) and Regional Growth Strategy (RGS)

s.13

AGENDA

Topic	Description	Information/Engagement
1. Review work completed to date	Recap previous workshops	For information
·	Review direction from the TransLink Board and context	
	Outline process going forward	
2. Goals and	Brief recap of existing strategies and	Discussion and
principles	engagement results	engagement
	Identifying gaps in current goals and principles and develop preliminary list	
3. Theme	Development of shortlist of ideas for theme	Discussion and engagement
	Organizing goals under various themes	
4. Vision	Review of current vision statements from	Discussion and
	RGS & RTS	Engagement
	Discussion on developing the vision	



BULLETS

Date: April 3, 2019

Prepared For: Kaye Krishna, Deputy Minister, Ministry of Municipal Affairs and Housing

Topic: TransLink current issues

Meeting With: Kevin Desmond, CEO, TransLink on April 5th, 2019

REGIONAL TRANSPORTATION STRATEGY (RTS):

• It is a priority for the Province to be an active participant and partner in the development of the RTS to ensure we are working towards mutually beneficial objectives.

 The Province and TransLink are establishing structures for provincial engagement with the RTS, including a coordinating committee with Minister Selina Robinson, Parliamentary Secretary Bowinn Ma, Mayors' Council Chair Jonathan Coté, and, potentially, Metro Vancouver Regional District Chair Sav Dhaliwal.

Key Message:

- We are excited to work with the region to plan for the next 30 years of transit and development in Metro Vancouver.
- We realise there is still much work to be done as demand for transit is only going to grow. We are committed to working with the region on the long term transit and transportation priorities that make life better for people living and working in Metro Vancouver.

HANDYDART:

- It is a priority for our government to make sure everyone can access the important services they depend on, including accessibility to transit.
- We continue to have discussions through the Custom Transit Working Group on how we can improve HandyDART service, reduce trip denials and ensure that seniors and people with disabilities get the rides they need.

Key Message:

 TransLink has a range of funding sources and tools to meet their transit and transportation needs, which is why we are committed to working with TransLink and the Mayors' Council to continue developing effective and fair regional tools so they can fund Metro Vancouver's transit system themselves.

MOTOR FUEL TAX:

- The minister committed in June 2018 that the Province would enable TransLink to increase the motor fuel tax by 1.5 cents per litre with legislation in early 2019.
- s.13; s.16; s.17

Key Message:

• The Mayors asked for help to close their regional funding shortfall, and we committed to working with them to close that gap.



FARE DISCOUNTS:

- TransLink has stated publicly that senior levels of government should provide new funding for expanded discounts for youth and low-income passengers.
- s.13; s.17

Key Message:

s.13; s.16

PHASE 3 FUNDING:

- TransLink is working on federal and provincial engagement to secure funding for remaining unfunded projects in the 10-Year Vision.
- Potential funding sources proposed at the March 2019 Mayors' Council meeting include: property tax; land value capture; mobility pricing; vehicle registration fees; regional carbon tax; motor fuel tax; regional sales tax; ride-hailing fees; goods movements fees; hospitality tax; and a regional sales tax.
- The Province believes that any funding solution in Metro Vancouver, including mobility pricing, would need to be fair and affordable for everybody.

Key Message:

- Our government is committed to making life more affordable, delivering the services people count on and building a strong, sustainable and innovative economy that works for everyone.
- This includes partnering with TransLink and the Mayors' Council to develop lasting, effective and fair solutions to the region's transportation needs.

RAIL-VOLUTION:

- In September, 2019, TransLink will be hosting a four day conference entitled Rail-Volution; a transportation focused conference that links land use, transit and development.
- Vancouver will be the first host city located outside the United States since the conference first began 20 years ago.
- Recently, TransLink hosted a breakfast six months ahead of the conference to discuss how best
 to leverage the presence of US-based professionals, business leaders and elected officials
 visiting the region during the conference. Parliamentary Secretary Bowinn Ma will be a speaker
 during the plenary session of the conference.

Key Message:

We are excited to work with the region on their Regional Transportation Strategy to plan for the
next 30 years of transit and development in Metro Vancouver and these types of conferences are a
great opportunity to engage with likeminded individuals from across North America.

SFU GONDOLA:

 The Mayors' Council included plans to secure government funding for a Phase Three SFU gondola project as part of its 2019 work plan. SFU has indicated it will contribute funding.



 The Mayors' Council is responsible for approving TransLink's long-term strategies, major projects and investment plans.

Key Message:

- We all share the same vision of a sustainable transportation system that serves the needs of the Metro region.
- I understand you have included plans to secure senior government funding for a Phase Three gondola project as part of your 2019 work plan and we look forward to hearing more about those plans.

BROADWAY PLANNING PROCESS:

- The City of Vancouver's land use planning process for the project corridor will be complete in December 2020.
- An initial public consultation will be complete on April 7, 2019; additional public engagement opportunities will take place in mid-2019 and early 2020.

Key Message:

The Broadway Plan is a good example of regional planning for anticipated future transportation
projects and we're excited to see how this plan will incorporate good land use and provide for
the kind of affordable housing our investment in the Broadway Subway calls for.

SURREY-LANGLEY-SKYTRAIN (SLS):

- TransLink begins public engagement on the proposed Surrey Langley SkyTrain and rapid transit planning for the 104th Avenue and King George Boulevard (KGB) corridors on April 8th, 2019
- Included in TransLink's consolation materials are proposed options for the potential technology options for 104th and KGB, to be funded within the \$3.5B envelope. The only option presented as financially feasible within the \$3.5M is a B-Line.
- Surrey council will continue a motion on April 15, 2019 to withhold development applications along the SLS corridor for eight to ten months to curb speculation.
- Social housing, student housing and below-market affordable housing would be exempt.

Key Message:

- We made a significant investment in the Mayors' 10-Year Vision for the region, which includes funding for rapid transit in Surrey.
- We will continue to work with the region and the federal government to help the Mayors'
 Council deliver on the projects that best meet the transportation needs of Surrey and the entire
 region.
- Increasing affordable housing options and density along rapid transit lines is part of our 30Point Housing Plan and gives people more opportunities to use transit, which reduces the
 number of cars on our roads, and allows people to spend less time commuting and more time
 with their friends and family. It is vital that the people have access to affordable housing in
 close proximity to any new transit corridors.

NORTH SHORE RAPID TRANSIT STUDY:

 The Ministry of Transportation and Infrastructure is determining a project scope for a provincial funding contribution to a feasibility study of a rapid transit link between the North Shore and the Burrard Peninsula.



This commitment has not been formalized or made public.

Key Message:

• We understand the value in working with TransLink to ensure the priority projects for the next phase of investment plans is beneficial for the entire region. We look forward to seeing the results of the feasibility study and its potential within the context of the RTS.

RIDE-HAILING:

- The Province is working on regulations to bring in a ride-hailing framework for September, 2019.
- The Select Standing Committee on Crown Corporations released a report that mostly aligned with TransLink's recommendations, including eliminating boundaries and vehicle caps. The Province has not made a decision on those recommendations.
- TransLink recommended using variable fees for ride-hailing vehicles that specifically targeted congestion or incentivized use in particular locations (i.e. a type of mobility pricing); however, the Committee made no such recommendation.

Key Message:

 The legislation will come into effect in 2019 and we will continue to work with local governments to ensure the new framework meets the needs of communities and British Columbians. Discussion guide - Housing Along the Surrey to Langley SkyTrain (SLS) Line

Thursday, May 16th, 2019

11:00am - 12:00pm

Background:

TransLink is currently working on the scope, schedule, and cost estimate for 16.5 km of rail from King George to Langley Centre to present to the Mayors' Council on July 25th during their public meeting. TransLink will also be presenting:

- Scope of project achievable within existing approved funding (~\$1.6 billion)
- Ridership and other project outcomes (total project and first phase)
- City of Surrey draft MOU (governance, contribution, supportive policies)
- First round of engagement report

During a SLS project board meeting in April, there was some discussion on density and affordable housing along the line. s.13; s.16

s.13; s.16

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Broadway SPA

The Province has been engaging with TransLink and the City of Vancouver as part of a Monitoring Committee overseeing the Supportive Policies Agreement (SPA) between the city and TransLink. The SPA references several action points related to affordable housing including an Affordability Strategy in which the city commits to "...collaborate with TransLink and the Province on the development of the Affordable Housing Strategy." The SPA also notes that the Affordable Housing Strategy "...will be initiated in 2018 and completed by the end of 2021."

s.13; s.16

SLS Land use Planning/Affordable housing

s.13; s.16

The Corridor already contains a diverse mix of employment and residential uses within the established neighbourhoods of Fleetwood Town Centre and East Clayton, as well as the emerging urban communities in West Fleetwood, West Clayton, and East Cloverdale. It also includes environmentally sensitive areas such as Green Timbers, the Serpentine River and Agriculture Land Reserve (ALR).

According to a report submitted to Surrey city council in April, the city has begun background studies and analytics of land around the proposed corridor as part of the initial planning phase. These studies include:

- Market assessment;
- Environmental study;
- · Growth forecast; and
- Future land use planning

The report mentions consultation with the Province as part of the development and update of their land use plans. To support the Business Case submission timelines, city staff plan to provide TransLink with preliminary growth forecasts and data during the initial planning phases in 2019. This will include urban development targets, and forecasts for population, number of dwelling units and employment for the corridor. According to the report, the development of land use plans will take place in the spring-summer of 2020 as well as financial and urban design strategies.

Concurrently, the city will be working on amending other polices including:

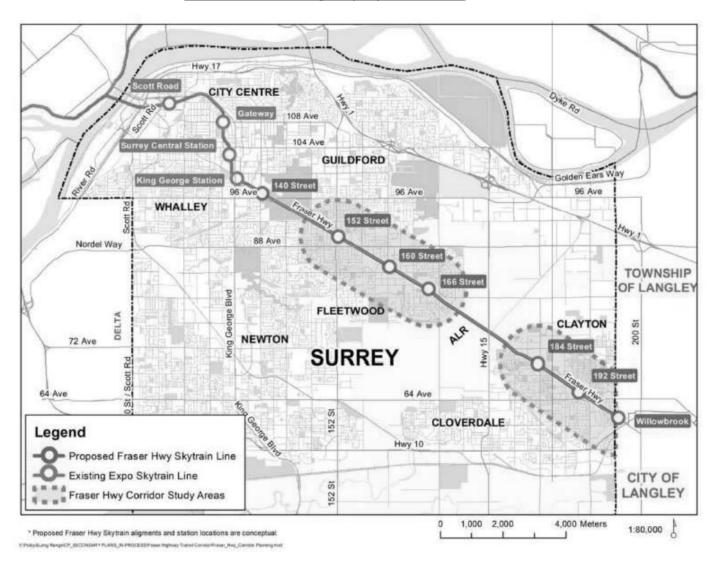
- The city's OCP (replacing LRT with SkyTrain);
- A Density Bonus and Community Amenity Contribution Review; and
- The city's Affordable Housing Strategy

Discussion

s.13; s.16; s.17

See Attachment for a map of Fraser Highway Skytrain Corridor (source: CoS staff report).

Attachment: Fraser Highway Skytrain Corridor





BRIEFING NOTE FOR INFORMATION

Date: June 20, 2019

Prepared For: Kathryn Krishna, Deputy Minister of Municipal Affairs and Housing

Title: Housing-Related Policies and Initiatives for Broadway Corridor

Issue: Transportation and land-use strategies for transit-oriented development and affordable

housing along the proposed Broadway Subway Line.

BACKGROUND:

Phase Two of the Mayors' Council Ten-Year Vision includes building the Broadway Subway extension of SkyTrain's Millennium Line from VCC-Clark Station to a new terminus at Broadway and Arbutus Street. It is expected that construction on the 5.7-kilometre Broadway Subway project will commence in 2020 and open in 2025.

To ensure the Broadway Subway Project met provincial expectations for affordable housing, in 2018 the Province worked with TransLink and the City of Vancouver (City) to be added as a participant to the monitoring committees in a Supportive Policies Agreement (SPA). The Province was not a signatory to the agreements. \$\frac{1}{2}\$

s.13 In addition, the City is leading the Broadway Subway Plan to help develop a transportation and land-use strategy around the Broadway Subway, including housing and transit needs. The plan is expected to be completed for Vancouver City Council's consideration by late 2020.

DISCUSSION:

The Province's 30-Point Housing Plan includes a goal to increase density and affordable housing around TransLink stations. It is a priority for the Province to facilitate transit-oriented development, density and affordable housing along new rapid transit lines while avoiding displacement of existing residents. The following wok by the Province, the City and TransLink are currently underway to ensure progress and accountability on key performance indicators for density and affordable housing are being met.

s.13



s.13; s.16

Housing Vancouver Strategy, Broadway Plan and other City of Vancouver Initiatives

Adopted in November 2017, **Housing Vancouver** is the City's 10-year strategy for addressing Vancouver's housing affordability crisis to 2027. The comprehensive city-wide initiative aims to retain existing affordable housing and facilitate the construction of new affordable housing affordable to local incomes.

Stabilizing land values along the Broadway corridor to prioritize the retention of existing affordable rental housing is one of the priority actions in the Housing Vancouver strategy. Specific strategies that may be applied along the Broadway Corridor include:

- Rental unit replacement requirements;
- Rental only-zoning;
- Density bonuses/rezoning/inclusionary zoning;
- Land sales and below market rates; and
- Community Amenity Contribution requirements during up-zoning.

In March 2019, the City launched a two-year planning process for Broadway as one action to facilitate implementation of the Housing Vancouver Strategy. The **Broadway Plan** will be specific to the area of Broadway between Clark Drive and Vine. It will focus on the integration of housing with future rapid transit stations along the Broadway Corridor. Among other goals, the Broadway Plan aims to address the need for deepening housing affordability and minimizing the displacement of existing tenants.

There are three City housing policy initiatives currently underway as part of the Housing Vancouver Strategy that will overlap with the Broadway Plan. These are:



Enhanced Tenant Relocation and Protection Policy (TRPP)

- The TRPP protects tenants by mitigating the impacts of displacement results from redevelopment activity.
- Anticipated Completion: 2019

Review of Rental Housing Incentive Programs

- The City has a number of rental incentive programs to encourage the development of new market rental housing, created in response to the severe shortage of rental housing and extremely low vacancy rates in
- Vancouver.
- Anticipated Completion: 2019

Affordable Housing and Community Spaces Incentive Program (AHCSIP)

- The purpose of this new program currently under development is to support non-profit societies including housing operators, societies, and places of worship to develop affordable housing.
- Anticipated Completion: 2020

Supportive Policy Agreement

In June 2018 the City of Vancouver and TransLink signed a **Supportive Policy Agreement** (SPA) with respect to the Broadway Subway Project.

The SPA identifies principles to guide transit-oriented development along the Broadway Corridor and identifies a range of measurable outcomes. The Province has been engaging with TransLink and the City as part of a Monitoring Committee overseeing the SPA and is meant to play a key role in implementing the SPA, by jointly developing annual reporting on indicators such as:

- Population growth;
- Employment growth;
- Development activity;
- Zoned housing capacity; and
- Affordable housing.

Under the SPA, the City committed to determining approaches to preserving and/or replacing existing housing stock and evaluating whether existing by-laws such as the Rental Housing Stock ODP and zoning need to be augmented. The SPA states that it is the City's responsibility and mandate to develop and approve land use plans and housing policies, deferring the creation of targets to future planning work while working with the Province to create additional programs and policies to incentivize purpose-built rental housing.

Furthermore, the SPA includes the establishment of an **Affordable Housing Strategy**. As part of the Broadway planning, the City will develop and adopt, in the context of the City's Housing Vancouver Strategy, an Affordable Housing Strategy for the Broadway Corridor, which will outline affordable housing targets by location, housing type, target income and tenure. The SPA states that the City will collaborate with TransLink and the Province on the development of the Affordable Housing Strategy, which is scheduled to be completed by the end of 2021. s.13; s.16



s.13; s.16

None

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PREPARED BY:	APPROVED BY:	DATE APPROVED:
Vanessa Day, Senior Policy Analyst Community Policy and Legislation Branch	David Curtis, Assistant Deputy Minister & EFO Community and Management Services Division	
(778) 698-3367	Kathryn Krishna, Deputy Minister	



BULLETS

Date: May 31, 2019

Prepared For: Kaye Krishna, Deputy Minister, Ministry of Municipal Affairs and Housing

Topic: TransLink Current Issues

Meeting With: Two TransLink Board of Directors members on June 2019

Top Issues this month:

1. Surrey Langley SkyTrain Project Update

- 2. Broadway Subway Project Update
- 3. Transit Fare Review Implementation Update
- 4. Transport 2050 Update
- 5. Phase Three Funding
- 6. SFU Gondola

1. Surrey Langley SkyTrain (SLS) Project Update

Key Facts:

- TransLink is refreshing the South Fraser Transportation Strategy concurrently with planning for the SLS to ensure the area's transit needs are met.
- The Project Development Board met on April 26th, 2019. MAH and MOTI attend in advisory positions. Next project board meeting is in Friday, June 14th.
- Public engagement concluded on April 26th and TransLink released the initial results from the
 engagement. The engagement received the second greatest number of responses in the history of
 TransLink engagements and in Surrey and Langley, 85% of respondents show support for the
 proposed project
- TransLink will be reporting back to the Mayors' Council in July on scope, schedule and a cost
 estimate for 16.5 km extension from King George to Langley Centre and will also present an MOU
 with Surrey that includes governance, the city's funding contribution, reimbursement of costs
 already spent on the former LRT project and information on the Supportive Policies Agreement.

2. Broadway Subway Project Update

Key Facts:

- The City of Vancouver's land use planning process for the project corridor will be complete in December 2020. An initial public consultation was completed on April 7, 2019; additional public engagement opportunities will take place in mid-2019 and early 2020.
- The Supportive Policies Agreement between TransLink and Vancouver identifies that an Affordable Housing Strategy for the Corridor will be developed with the Province. s.13; s.16
 s.13; s.16

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s.13; s.16

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 TransLink has noted they will be emailing a proposed schedule of upcoming Broadway SPA monitoring meetings (working sessions and then another Monitoring Committee meeting). The last Monitoring Committee meeting was in February 2019.

3. Transit Fare Review Implementation Update

Key Facts:

- TransLink's Fare Review includes a recommendation to expand discounts for youth and the 45,000 low-income transit users who are currently ineligible for any discount. TransLink has said publicly that expanded discounts would require funding from the Province.
- On April 24, the Mayors' Council received and endorsed a TransLink report that recommends
 expanding discounts to low-income residents, children, and youth on the basis that the Province
 pays for the additional costs.
 - TransLink estimates the to provide free transit to youth (5-18) is \$40 \$50 million and \$25 \$40 million for low-income people.
- s.13; s.16; s.17

4. Transport 2050 Update

Key Facts:

- TransLink is developing Metro Vancouver's new Regional Transportation Strategy (RTS) called, "Transport 2050," to be complete by late 2020.
- The initial planning process includes consultation with the Province, local governments, the public and other stakeholders. The Phase 1 engagement period started in May and ends in September 2019.
- The Province is participating in the RTS process through a principals coordinating committee with Minister Robinson, Parliamentary Secretary Ma and the chairs of the Mayors' Council and Metro Vancouver to ensure provincial housing and planning objectives are integrated.



- Ministry staff are working with TransLink to establish several other working groups at various levels to feed into the development of the RTS, including a Project Management Committee, an Executive Committee and the Regional Agency Advisory Group (RAAG). The first meeting of the Project Management Committee will be on Tuesday, June 4th following the RTS stakeholder session.
 - TransLink and Metro Vancouver are partnering on a key stakeholder kick-off event to launch Transport 2050 engagement on June 4, 2019. Ministry staff will deliver a presentation to outline some of the provincial priorities and principles that we would like to see reflected in a new RTS.
 - RAAG participants include provincial representatives from the Municipal Affairs and Housing (MAH), Ministry of Transportation and Infrastructure (MOTI), Environment (ENV) and Jobs, Trade and Technology (JTT).

5. Phase Three Funding

Key	Facts:
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s.13; s.16; s.17

TransLink is working toward a final investment plan for Phase Three by summer 2020.

6. SFU Gondola

Key Facts:



- A City of Burnaby staff report was presented to council on Monday, May 27th. Council endorsed the
 motion and next steps include public consultation on the project. If public support is received and
 the business case holds, senior governments could be looked at to confirm their share of funding.
- TransLink has indicated that they will be bringing the City of Burnaby motion to Mayors' Council in June for directions.13; s.17
- Currently, the Gondola project is outside of any federal funding program and not included in Phase Three of the Ten-Year Vision.

s.13; s.16; s.17

PREPARED BY: APPROVED BY: DATE APPROVED:



B.C. Government Priorities and the Regional Transportation Strategy

Jodi Dong

Executive Director, Community Policy and Legislation Ministry of Municipal Affairs and Housing





Introduction

- Working with regional and local governments to achieve common goals
- Supporting Mayors' Council's 10-Year Vision
- Recognize RTS is a regional responsibility







s.13

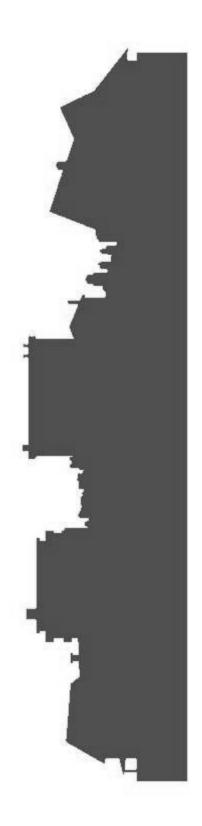




Provincial Vision

Sustainable transit and transportation systems that:

- Enable affordable housing options;
- Encourage increased movement of goods and people;
- Help reach our climate action goals; and
- Support a strong economy through increased jobs





Housing, Transit and Land Use

Affordable Housing

- Increase density and improve availability of affordable housing along transit lines
- Consider affordable housing objectives and land use planning early

Investing in Transit

- Funding 40% of the capital costs of the Mayors' Council's 10-Year Vision
- Working with region on sustainable and fair regional funding tools

Land Use Tools

- Rental zoning
- DAPR
- Housing needs assessment
- Supported review of Transit-Oriented Affordable Housing tools





Transportation

Moving People and Goods

- Long-term planning to facilitate multi-modal movement of goods and people

Connected Communities

Connected communities and seamless travel between neighbouring communities and Metro Vancouver



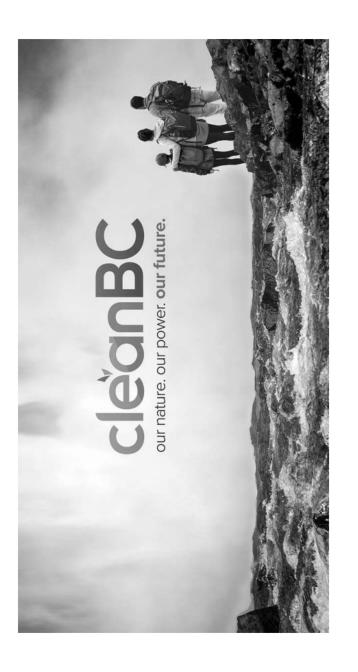




Environment

CleanBC

- Every new car sold in B.C. will be a zero-emission vehicle by 2040
- 80% GHG emissions reduction below 2007 levels by 2050







Economy

Strong Economy

- Over 1.1 million jobs in Metro Vancouver
- Region accounts for \$183 billion in direct economic output
- 1 million more people in region by 2050
- Continued improvements to moving goods and people and reducing congestion will be crucial









Gender-Based Analysis+ (GBA+)

- The Province is committed to GBA+
- Analytical tool to assess how diverse groups of people may be impacted by policies, programs and budgets
- Acknowledge that transit and transportation planning and policies will affect people in different ways



GENDER-BASED ANALYSIS PLUS



Conclusion



B.C. Government Priorities and the Regional Transportation Strategy

Jodi Dong

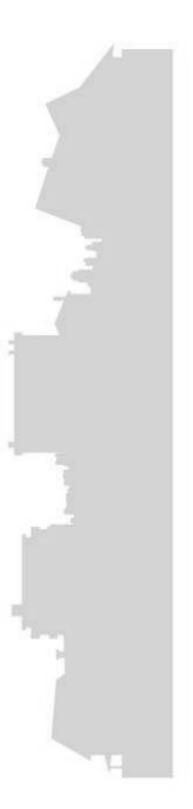
Executive Director, Community Policy and Legislation Ministry of Municipal Affairs and Housing





Introduction

- Working with regional and local governments to achieve common goals
- Supporting Mayors' Council's 10-Year Vision
- Seeing the value that robust, integrated transit brings to communities and to the Province as a whole.



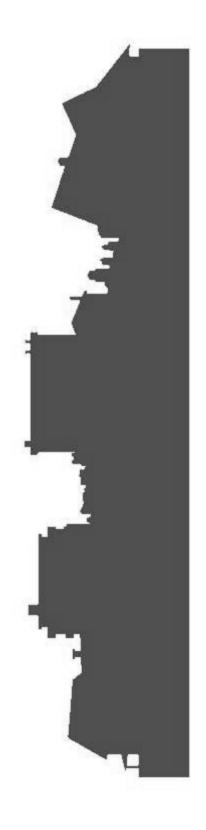




Provincial Vision

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- Increase density and improve availability of affordable housing along transit lines
- Consider affordable housing objectives and land use planning early

Investing in Transit

- Funding 40% of the capital costs of the Mayors' Council's 10-Year Vision
- Working with the region on sustainable and fair regional funding tools

Land Use Tools

- Metro Vancouver's Transit-Oriented Affordable Housing study
- Rental zoning
- Housing Needs Reports
- Development Approval Process Review
- Regional Growth Strategy



Transportation

Moving People and Goods

- Long-term planning to facilitate multi-modal movement of goods and people
- Affordability and equity
- Trade and investment

Connected Communities

Connected communities and seamless travel between neighbouring communities and Metro Vancouver



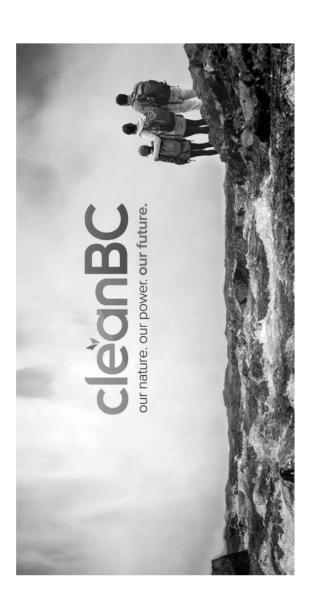




Environment

CleanBC

- 40% GHG emissions reduction below 2007 levels by 2030
- 98% of local governments have signed the Climate Action Charter
- Every new car sold in B.C. will be a zero-emission vehicle by 2040
- 80% GHG emissions reduction below 2007 levels by 2050







Strong Economy

- Region accounts for \$183 billion in direct economic output
- 1 million more people in region by 2050
- Continued improvements to moving goods and people and reducing congestion will be crucial









Gender-Based Analysis+ (GBA+)

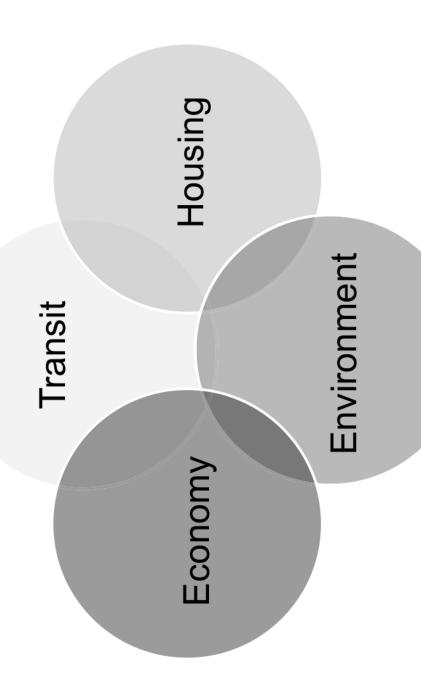
- The Province is committed to GBA+ and the development of policies that are equitable
- Analytical tool to assess how diverse groups of people may be impacted by policies, programs and budgets
- Acknowledge that transit and transportation planning and policies will affect people in different ways



GENDER-BASED ANALYSIS PLUS



Conclusion





Shared Housing Goals

SPA Monitoring Committee Presentation to

December 2018

Municipal Levers

Provincial Levers

Shared Housing Goals

Metro Vancouver **Shared Housing** SPA Objectives Vancouver Goals I Province



Province's 30-Point Housing Plan

- Stabilize the market
- Crack down on tax fraud and close loopholes
- Build the homes people need
- Improve security for renters
- Build partnerships for affordability including:
- Work with TransLink and local governments to increase density and affordable housing around transit stations



City of Vancouver Housing Goals

- Regional Context Statement:
- 97,000 new units and 112,000 new jobs in Frequent Transit Areas (FTAs), 2006 – 2041
- Transportation 2040:
- Includes prioritizing density in FTAs
- Housing Vancouver Strategy (2018):
- ■72,000 homes in next 10 years
- 50% of new homes for households earning < \$80,000
- ■65% of all new units for renters
- Prioritize market and below-market rental near transit





UBCM Housing Goals

- 2018 Housing Strategy:
- Called for Province to implement rental zoning
- agreements to link infrastructure to affordable housing Supports creating provincial/local government



Shared Housing Goals

- Provincial taxation measures; Vancouver DCE, CACs and empty home tax
- The Province and Vancouver and Surrey have targets for housing investment and/or growth in housing units
- Province and cities are focused on building rental stock and protecting renters



Metro Vancouver Housing Goals

- RGS: 161,000 new units (28%) and 158,000 new jobs (27%) in Frequent Transit Areas
- Focus growth and development in Frequent Transit Development Areas
- Review options to leverage underused land
- affordable housing near Frequent Transit Propose senior governments prioritize **Networks**



Shared Housing Goals

- Improving security for renters:
- The Province and Vancouver support purpose-built rental and tools such as rental zoning
- Building partnerships for affordability:
- Common goals to support increased density and affordable housing and near transit
- underutilized land; using underused land was identified HousingHub to identify partnerships to leverage as a priority by Metro Vancouver



SPA Objectives

- working in the new rapid transit corridors Increase the number of people living and
- Increase the supply of affordable and rental housing in the corridors
- Increase the number of people taking transit
- Increase the number of people cycling or walking, or cycling or walking to transit



Provincial Levers

- Financial support for rapid transit
- Speculation tax and foreign buyers' tax
- Strengthening protection for renters
- Legislation to allow rental zoning, TransLink DCCs
- Participating in SPAs
- HousingHub



City of Vancouver Levers

- Empty homes tax to limit speculation and DCE to limit speculation on Broadway
- CACs help fund affordable housing
- Rezoned single-family to allow duplexes
- One-for-one rental replacement in some areas
- Broadway Corridor planning
- May pursue rental zoning
- Participating in SPA with TransLink

Reducing the Barrier of High Land Cost: Strategies for Facilitating More Affordable Rental Housing Construction in Metro Vancouver

Phase 2 of The Transit-Oriented Affordable Housing Study

March 2019 DRAFT

Prepared for: Metro Vancouver





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Part 1: Background, Objectives, and Scope

1.1 Introduction

Housing affordability is one of Metro Vancouver's most challenging regional issues, straining households financially and emotionally, pushing some young people out of the region, making it harder for some employers to fill positions, pressuring all levels of government to do more.

Because of the severity of the problem, all levels of government are taking action and looking for new solutions. The Federal Government is investing more money in housing. The Province is investing more money and also introducing new forms of zoning, changes to property taxation, and changes to rent regulations. Local governments are using their planning and zoning powers to enable more residential construction, facilitate new affordable rental housing, and reduce demolitions of existing rental housing stock. However, these efforts have not materially changed the picture for renters.

Addressing the affordability of rental housing is particularly challenging. Demand for rental housing is increasing, in part because of population and household growth and in part because many households have been priced out of the ownership market. New rental unit construction has not been sufficient to meet the need for more units, so vacancy remains extremely low and rents have been increasing faster than household income.

Over the last decade, after accounting for demolitions, the region's total stock of purpose-built apartments has increased by less than 5%. While more rental units have been created in new secondary suites and strata units that enter the rental market, these tend to command higher rents than purpose-built rental units. As a result, Metro Vancouver estimates that there will be a shortfall in the region of about 27,000 affordable rental units by about 2028.

The situation could get worse:

- Continued population growth and continued lack of affordable ownership options will add to the demand pressure on the rental market.
- Efforts to curb rent increases in existing older rental stock will help current renters but can risk diminishing the private sector's interest in developing new product.
- Construction costs continue to rise.
- The existing rental stock continues to age; about 15% of all rental units in the region were built before 1960 so many of these are in lower density buildings that will become physically obsolete over the next couple of decades.

These trends suggest that affordable housing for renters will remain a significant problem unless there is a much larger response from governments, non-profits, and the private development industry.

To explore possible solutions to the affordable rental housing challenge, in 2017 Metro Vancouver entered into a partnership with BC Housing, BC Non Profit Housing Association, TransLink, Vancity Credit Union, the Urban Development Institute, the BC Ministry of Municipal Affairs and Housing, and CMHC to try to tackle the challenge of affordable rental housing supply, especially in locations with good access to public transit. This all-hands-on-deck response is indicative of the magnitude of the problem and the recognition by the public, private, and non-profit sectors of the need for action. In the first phase of its work, this partnership



commissioned an analysis¹ to identify the major financial barriers that are impeding the creation of more rental housing, especially at transit-oriented locations, and to suggest some general approaches to deal with the challenge.

That study concluded that the high cost of land, high construction costs, and financing costs are all part of the financial challenge that private sector and non-profit housing developers face in building new rental units. The study noted, though, that even if construction costs can be lowered and more favourable financing (or grants) are available, the challenge would remain that it is difficult to obtain sites for new rental housing because land values are so high. This land value problem exists because strata title residential prices, single detached housing prices, and commercial property values have all reached levels in this region that are too high to be affordable for new rental housing development. If rental developers (private sector and non-profit alike) cannot compete in the urban marketplace (in which most land is in private ownership) to acquire development sites, they can't deliver more units.

Since the 2017 Phase One work, land values and construction costs have increased, making the challenge even greater. Rents have continued to rise and vacancy is still extremely low.

So, in the second phase of the work on affordable rental housing, Metro Vancouver and its partners are focusing on ways to reduce or eliminate land cost and land availability as barriers to new rental housing supply. This is the primary subject of this report.

This report mainly focuses on affordable, transit-oriented rental housing, because:

- · rental is inherently more affordable than ownership.
- low to middle income households, who are more likely to be renters, are having the hardest time in this
 market.
- low to middle income households have the highest tendency to be transit users.

There is no lack of awareness of the importance and severity of the affordable housing challenge in Metro Vancouver. The topic dominates political discourse, the news, social media, and government agendas. It affects everyone, even those who don't have their own affordability challenge. It will become harder to fill a wide range of important jobs including jobs in the service sector, technology, teaching, health care, emergency services, and others that the regional economy relies on if people have increasing difficulty finding adequate housing and they move away.

Consequently, there are many new initiatives underway in the region to stimulate more rental housing creation. This report is intended to support those efforts, by providing suggestions that could lead to the construction of many more affordable rental units at a much quicker pace than is happening now.



PAGE 2

¹ "Analysis of the Financial Viability of New Purpose-Built Rental Housing at Transit-Oriented Locations in Metro Vancouver", Coriolis Consulting Corp., August 2017).

1.2 Objectives

The primary objective of this work is to identify workable, financially viable tools to reduce the barrier of high land cost and limited land availability that is impeding the construction of new, affordable, purpose-built rental housing, particularly at transit-oriented locations.

This report explores four main strategies for increasing the availability of land for new affordable rental supply:

- 1. Using lands already owned by non-profits, local governments, and senior governments for affordable housing, and finding creative ways to add to this inventory of land.
- Using the rezoning process and associated tools to create new development entitlements (i.e. additional
 density) that are either exchanged for affordable housing contributions or only available if they are used
 to accommodate affordable housing. Density bonusing for affordable housing and Community Amenity
 Contributions (CACs) are in this category.
- Using the recently approved (in BC) "rental only" residential zoning tool available to municipalities. The
 aim behind this new kind of zoning is to reduce the market competition for land by removing (for some
 sites or parts of some sites) strata residential as a possible use.
- 4. Establishing inclusionary requirements for affordable housing units in new multifamily residential development projects. This approach imposes a requirement on developers of new market projects (rental or strata) to provide some units that are affordable for households at defined income levels. This adds a cost to projects, which can impact financial performance and which may affect whether projects proceed, but it is a way of adding to rental stock that does not require the acquisition of land specifically for affordable rental housing.

These approaches can be used in combination. It is common, for example, to combine an inclusionary housing requirement with new density, so that the value of the new density offsets the costs of providing affordable units.

The report examines how these strategies might work, explores the market, financial, and operational advantages and disadvantages of each, and indicates whether these might be used to stimulate more affordable rental housing construction in Metro Vancouver.

This report also has two secondary objectives:

- Suggest ways to improve the actual delivery of affordable rental units, either by the non-profit and public
 sector or the private sector. Reducing the land cost barrier is a crucial part of the solution, but there are
 other steps that could be taken to expand and accelerate the delivery of new units.
- Suggest ways to improve the integration of affordable housing planning with transit planning, because
 increasing affordable housing at transit-served locations is the main goal of this work.

1.3 Other Approaches Not Explored in this Report

This report concentrates on finding ways to reduce the constraints of land availability and land price that have limited the pace of new rental construction.

There are other, very different ways to address the problem of insufficient affordable rental accommodation.



Distribution of Wealth and Income

It could be argued that the housing problem is really an income problem; the solution is to redistribute wealth so that all households can afford housing. However, in much of Metro Vancouver even new rental development at full market rents faces financial challenges, especially due to high land cost. Canada is a long way off from income redistribution on a scale sufficient to solve the housing affordability problem for all income groups in Metro Vancouver, so this report does not focus on income-based solutions to housing affordability. This report focuses on creating new rental supply.

Publicly Owned Rental Housing

Another possible solution is a much greater direct investment in rental housing by governments.

Such an investment program might focus on extensive land acquisition, to then make sites available to rental housing developers at affordable cost. This is one of the approaches explored in this report, to a point. While "acquire land and make it available at affordable price" sounds simple enough, the price of land in this region is such that it would take enormous capital investment to rely solely on buying enough land at market value to accommodate all the needed rental housing.

Metro Vancouver estimates that the region requires a total of about 6,000 new rental units every year, including social housing, non-market, affordable, and market rental. For illustrative purposes, if rental housing should be distributed throughout the region (not just in the lowest land value areas) and if average land values are equivalent to \$100 per buildable square foot of strata apartment residential space (probably a low estimate), then 6,000 rental units requires a capital investment *in land* of around \$450 million² *per year*, *every year* for the foreseeable future in Metro Vancouver. Depending on construction cost and on how rents were set, this investment might be recovered over the long term, but it still requires enormous cash or borrowing to build such a large portfolio.

If investment in affordable rental means buying land *and* building the housing, then the total investment is much greater. If construction costs average say \$450 per square foot, then 6,000 units per year requires about \$2 billion³ *per year* in construction investment in Metro Vancouver, in addition to the land estimate above.

So, land and construction for all the rental housing needed in this region will require about \$2.5 billion per year. Again, depending on how rents are set, this could be recovered over the long term but it still requires massive borrowing or outlay of cash.

Government housing investment approaching this scale may well be an important part of the long-term solution if housing prices in Metro Vancouver continue over the long term to rise faster than incomes. There are communities in the world (Vienna is often cited as an example) in which government owns large shares of total housing stock for this reason. On a small scale, this has happened locally such as in Whistler where there is a special subset of housing stock that is only for employees and that is priced based on local employment income not global demand for resort property. However, transferring this idea to the regional scale may mean that the magnitude of the required capital investment is beyond the ability or willingness of government to pay. If so, then it becomes necessary to assume that for the foreseeable future the private sector and the non-profit sector must continue to provide a significant share of new rental housing

 $^{^{3}}$ 6,000 units x 750 sq ft per unit x \$450 per sq ft = \$2.025 billion.



² Assuming average unit size of 750 square feet per unit, the land cost estimate is 6,000 units x 750 sq ft per unit x \$100 per sq ft buildable for land = \$450 million.

construction. This requires that these players must find it possible to obtain development sites at a cost that is financially viable for them⁴.

This report is predicated on the following assumptions about the acquisition of land and the development of new rental stock:

- While governments have the ability to acquire additional lands and make them available for affordable rental housing, this ability is limited by their available financial resources. It is important to consider creative ways to acquire lands (or create development capacity) for affordable rental housing that do not require paying full market value for land.
- 2. Governments and non-profits are able to deploy lands they already own for affordable rental housing (assuming such lands are not required for other uses or for revenue generation) without necessarily receiving full market value for their land or receiving a market rate of investment return on their lands. These lands are not "free" because they have value that could be put to other uses, but they do not require a new cash outlay or new borrowing.
- 3. While governments will continue to invest in housing, for the foreseeable future they are not likely to meet the entire requirement for rental housing in this region. The private sector and the non-profit sector will continue to be important players in the delivery of new rental housing supply in Metro Vancouver.

These assumptions do not mean that acquiring a much bigger portfolio of public lands (and housing) is a bad idea; in fact, it is a good idea and is probably necessary in the long run. However, from a practical standpoint this will only happen gradually so in the meantime other approaches that do not rely solely on public sector cash and borrowing are needed.

Tax Incentives

There are several ways in which taxation can be structured to provide incentives for affordable housing, including:

- Income tax treatment of rental housing. For example, previous incentives such as accelerated
 depreciation allowances, capital gains exemptions, and the ability to deduct losses from other sources of
 income could be reinstated. However, while these tax incentives would likely lead to more housing
 construction, there would be a tax cost to the Federal and Provincial governments. This may be part of
 the reason why they have not acted to replace the incentives that were eliminated in the 1970s.
- Property tax reductions, such as Revitalization Tax Exemptions that are available to local governments in B.C.
- Rebates of GST, PST, or PTT for affordable rental housing.

Tax incentives would aid the creation of new rental supply, but the region cannot count solely on possible tax incentives for private rental housing investment to solve the problem. Even if such changes were made, new rental projects still must be able to find sites at affordable cost.

Convert Vacant Units to Rental Units and Restrict Short Term Rentals

Another approach to moderating rents is to convert vacant units to rental stock and to reduce parts of the demand for rental housing.

⁴ Recognizing that financial viability is measured differently for non-profit and private sector housing developers, they each nonetheless need projects to meet their respective tests for viability.



PAGE 5

The City of Vancouver and the Province have introduced taxes intended to shift vacant, owned units into the rental pool. The total number of units that might be achieved is relatively small, though, compared to the total need for new units in the region in the future.

As for the demand side, in the ownership market new purchase taxes applied to non-local buyers and new property taxes on certain types of property are intended to bring down the price of owned housing. Housing prices have started falling in response to these measures and the introduction of new mortgage qualification stress-test rules, but in the rental market there is less room to moderate demand because most rental housing demand comes from local residents who need housing. One of the few ways to reduce demand on rental stock is to curtail short-term rentals (e.g. Airbnb), and local governments are already working on this. But the limited room to moderate demand reinforces the need for more supply to maintain rental affordability.

Reduced Construction Costs

Another important strategy is to reduce the creation cost of new rental supply. This report concentrates on reducing land cost (and increasing land availability), but local governments can also help by reducing parking requirements and reducing or waiving fees such as DCCs or DCLs. These are important and are noted where applicable in this report. It should be remembered, though, that while some cost reductions such as reduced parking do not have offsetting negative consequences, reducing development fees for rental housing means the cost of infrastructure must be recovered by other means. Municipalities can also reduce project cost by reducing approvals time (which would reduce holding costs and financing charges) and reducing approvals risk by clearly designating areas where rezoning and redevelopment are desirable and almost certain to be approved when applications are consistent with policy.

Focus on Supply

The focus of this report, therefore, is on increasing supply as the primary means of addressing the challenge of affordable rental housing. The most effective long term solution is to reduce the barriers that limit new rental construction, principally by increasing the availability of land or density for rental units.

1.4 Structure of this Report

This report has six main parts:

- 1. Part 1 explains the purpose and scope of this work.
- 2. Part 2 provides broad background about rental housing, including the financial challenges, how the current situation developed, and what kinds of actions are being taken in the region and elsewhere, all as context for identifying ways to make progress. This background highlights the importance of creating ways to accommodate more rental in a marketplace where land is too expensive for new rental to be sustainable.
- 3. Part 3 examines in detail several ways to overcome the barrier of high land value (acquiring and deploying public and non-profit lands; using the rezoning process to achieve affordable housing benefits; "rental only" residential zoning; and inclusionary housing requirements). This part describes these tools, uses market and financial indicators to show the advantages, disadvantages, and effects of using these tools; and suggests how they could be best incorporated into a comprehensive rental housing strategy.
- 4. Part 4 explores ways to improve the delivery of new affordable rental units, either by the private sector or by the non-profit sector. First, assuming that private sector development will continue to be a significant source of new affordable units, because of requirements or incentives already embedded in municipal development approvals processes, this section asks how best to achieve the delivery of housing benefits



- by private developers. Second, this section explores whether unit creation by the public and non-profit sectors could be improved through a more coordinated approach rather than through the current mix of Provincial, regional, municipal, and non-profit entities.
- 5. Part 5 provides suggestions for better integration of transit planning and affordable housing development. Low to moderate income households are more likely to use transit, so it makes sense to find ways to locate affordable housing in places with good transit service.
- 6. Part 6 summarizes the main conclusions and recommendations.

1.5 Terminology

Addressing the rental housing challenge is complex and involves senior governments, regional agencies, municipalities, the non-profit development sector, and the development industry. These groups do not always speak the same language or share the same views about how the world should work.

The terms below are frequently used in discussions about rental housing development, but don't always mean the same things to everyone. This document uses the following definitions:

"Affordable": This is a relative term, as it invites the question "affordable for whom?". Metro Vancouver is focusing on affordable units for households with annual income in the range of \$35,000 to \$60,000, or about 50% to 80% of the median household income (from the 2016 Census) in the region, with affordable defined as rents that are a maximum of 30% of income. Households with incomes below \$35,000 are considered very low income and are acknowledged to require non-market, public sector subsidized solutions. Households above \$60,000 are assumed to be within the moderate range and perhaps able to participate in the rental market (although not without challenges). It is important to note that the household incomes of renters are generally lower than homeowners. In 2016, renter median household income was \$49,000 compared to the overall median of about \$75,000.

"Community Amenity Contributions" are amenities, affordable housing, or other public benefits (including cash in lieu) obtained by local governments when development projects are going through the rezoning process. When rezoning increases density, it generates new land value. Zoning policy in Metro Vancouver municipalities generally aims to allocate this gain in land value so that there is an incentive for land owners to sell their lands into the development market, incentive for developers to seek rezoning to increase the capacity for housing, and revenue for local governments to help fund the infrastructure and amenities needed to meet the needs of, and address the impacts of, a growing community.

"Density Bonus" is a form of zoning in which a site has a defined base density that is achievable without providing any amenities or public benefits and defined additional density which can be obtained if the developer provides a prescribed package of public benefits, which might include on-site amenities, affordable housing, or cash-in-lieu. Density bonusing is similar to Community Amenity Contributions, in that both involve the exchange of density for public benefits, but density bonusing is prescribed in a bylaw whereas Community Amenity Contributions are often negotiated.

"Inclusionary Housing Requirement" means a mandatory obligation for a project (usually residential) to include specific amounts of housing at rents affordable to specific target groups, usually based on household income. In BC, inclusionary housing requirements are sometimes set when developers seek rezoning and, as part of an agreed-on package of public benefits, enter into a housing agreement that mandates that some units meet an affordability objective and/or mandates that some units be family oriented (2 or 3 bedroom). Municipalities in BC are allowed (as of 2018) to zone land to only allow rental residential tenure, but under current legislation they do not have the authority to impose inclusionary affordable housing requirements via zoning alone. However, Section 483 of the Local Government Act allows municipalities to enter into a housing



agreement (with a developer) that governs the tenure of units, the form of units, the target market, and the rents. Such housing agreements are entered into when a developer seeks rezoning and the municipality wants to obtain affordable housing as part of the public benefits that are provided in exchange for the change in use and/or increase in density. These agreements are registered on title.

"Land" refers to physical sites that can be acquired and redeveloped. In urban development contexts, allowable density (i.e. the amount of floorspace that can be developed on a site) can also be thought of as "land" because increased density increases the physical capacity to accommodate housing. Land value can therefore mean the value of a site, but it can also refer to the value of additional density.

"Profit" means the net revenue that a developer intends to earn by completing a successful development project. In a strata project, it would mean the amount that is left after paying for land and all construction costs paid to others (e.g. contractors, consultants, municipal fees, financing). In a rental project, it could mean the profit that a developer makes by creating a new rental housing project and then selling it to a long term investor for more than the cost (land, construction). It is sometimes perceived that developers make "too much" profit and that is why housing prices are high. For developers competing in the marketplace to buy land and sell units, the market tends to impose a ceiling on achievable profit. A developer who expects to make extraordinary profit will either have to charge too much for units (meaning people will presumably not buy them if they can buy a similar unit for less) or will have to somehow acquire land, labour, or building materials for less than what other developers are willing to pay. This seldom happens, so there tends to be a limit on profit margin in a given market area. In Metro Vancouver, profit margin targets are generally about 13% of revenue or 15% of cost.

There is also a basement on profit margin imposed by the market. A developer who aims for a profit that is too low has little cushion against an increase in cost or a downturn in sales price. A developer who aims for a profit that is too low may find it hard to obtain financing from lenders, who could regard the project as being too risky because the pro forma financial analysis has no resilience to absorb downside. It is also important to keep in mind that large development projects do involve risk. If there is no profit, then private developers will not do projects (they will presumably look for opportunities in other markets).

Non-profit developers can deliver housing without a profit, for three reasons. First, they typically build in allowances for administrative and management fees; while these are less than a typical developer's profit, they do generate revenue that allows the non-profit to operate. Second, non-profit developers can rely on non-traditional sources of financing, such a philanthropy or government grants and loans. People working for non-profits do not typically invest their own money as equity and do not risk becoming personally insolvent if a project fails (although there are some not-for-profit developers who inject equity into social purpose real estate development). Third, some non-profits do not pay income tax so the amount they need to pull out of a project to make it work financially is less than a private developer needs.

"Return on Investment" means the income generated from investing capital in an income-producing asset such as rental housing, usually expressed as an annual percentage of the capital amount. An investor buying a rental housing project for \$10 million and expecting a cash return of 5% would expect that the project would yield \$500,000 per year in net income after paying all operating costs. This rate of return takes into account risk and the possible returns that can be made from other kinds of investments (e.g. bonds, stocks). Investors in rental housing usually expect that over time their return on investment will have three components: the portion that comes from continuation of the net income at the start, the portion that comes from the gradual increase in net income assuming that rents will escalate faster than operating costs, and the portion that would come if the asset can be sold in the future for more than the original purchase price.

"Risk" means the exposure to downside in a real estate project that can result in failing to achieve the target profit or return on investment or result in a loss. The main sources of risk in rental housing development are market risk (falling rents or increasing vacancy, although these are unlikely in Metro Vancouver at this time),



cost risk (construction costs have been rising rapidly), approvals risk (uncertainty and costs associated with the duration, complexity, requirements, and outcome of the approvals process), and regulatory risk (e.g. rent controls, limits on being able to keep pace with market rents, and constraints on renovation).

1.6 Professional Disclaimer

This document may contain estimates and forecasts of future growth and urban development prospects, estimates of the financial performance of possible future urban development projects, opinions regarding the likelihood of approval of development projects, and recommendations regarding development strategy or municipal policy. All such estimates, forecasts, opinions, and recommendations are based in part on forecasts and assumptions regarding population change, economic growth, policy, market conditions, development costs and other variables. The assumptions, estimates, forecasts, opinions, and recommendations are based on interpreting past trends, gauging current conditions, and making judgments about the future. As with all judgments concerning future trends and events, however, there is uncertainty and risk that conditions change or unanticipated circumstances occur such that actual events turn out differently than as anticipated in this document, which is intended to be used as a reasonable indicator of potential outcomes rather than as a precise prediction of future events.

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Part 2: Current Situation

This part examines the current affordable rental landscape in Metro Vancouver and provides some different perspectives on how to address the challenge.

This part of the report includes:

- A summary of what local governments in BC are able to do, based on current legislation, to improve the rental housing situation.
- A summary of what local governments in Metro Vancouver are currently doing for rental housing, including some brief descriptions of current local initiatives that illustrate some recent approaches.
- Two case studies from other jurisdictions Seattle and Los Angeles to illustrate what other communities
 are doing to encourage affordable, transit-oriented rental housing. These two regions were chosen
 because they have adopted new policies to encourage or require affordable rental and because they
 have emphasized coordination between development planning and transit planning so that a large share
 of new affordable housing is in transit-served locations.
- A summary of a review of some academic comparisons of approaches used to encourage rental housing, especially inclusionary zoning.
- A summary of the results of conversations with local private sector and non-profit rental housing developers about their perspectives on the challenge of building affordable rental in this region.

2.1 How Did We Get Here?

Wind the clock back ten to twenty years, and the rental market in this region was very different:

- During 2002 to 2007, there was not much difference between general inflation, growth in average wages, and growth in rents. Starting in 2007, these curves started to diverge. Rents started to grow more quickly than overall inflation and more quickly than household income.
- Vacancy rates in Metro Vancouver have fluctuated over the long term, generally between 1% and 2% since 1990, but the last time vacancy was over 2% was 2009.
- Because the existing rental stock was younger and in better condition, and rent rates were not rising as quickly, "renovictions" were less common.

What happened?

Building and Investing in Rental Housing Became Less Attractive

Private investment in new purpose-built housing became less attractive starting in the 1970s when Federal tax treatment of rental property was revised, including reducing the rate that assets could be depreciated for tax purposes and reducing the ability to use a rental property loss to offset other income. Effectively, tax incentives for rental housing investment were diminished, which tended to reduce the amount of new rental construction⁵.

In addition, a variety of Provincial and local policy and regulatory changes began to shift the regulatory balance more toward renters than landlords, which also tended to reduce interest in investing in new purpose-

⁵ Two short-lived programs (the Assisted Rental Program of 1975 to 1978 and the Multiple Unit Rental Building program of the late 1970s) provided grants and tax incentives resulting in a large amount of rental construction, but since 1981 there have not been similar incentives for private investment in new rental stock.



built rental housing. Limits on rent increases in particular dissuaded some private sector investment in rental housing.

Housing Demand Ballooned

The total demand for housing in this region has been increasing rapidly. Metro Vancouver has a very long history of population and household growth, employment growth, and income growth that fueled housing demand. These have continued to contribute to rising prices, but several other factors accelerated the market:

- Mortgage interest rates fell to historic lows for a long time, increasing purchasing power.
- Mortgage markets evolved in ways that made more funds available including longer amortization periods, higher ratio loans, and more lenders in the mortgage industry.
- Baby boomers reached the age at which they began transferring wealth to the next generation, adding to its housing purchasing power.
- Non-local investment in housing increased, as the region became part of a global real estate market. This non-local demand without some form of intervention is almost unbounded; as rising income and wealth in the rest of world grows and as capital is mobile (both legally and illegally), more and more people look to safe and attractive places to invest in property. It has become popular to call this "speculation", in a pejorative tone, but it has been nothing more nor less than investment in an asset that is viewed as safe and likely to appreciate in value. Reducing or redirecting (from owned housing to rental housing investment, for example) this portion of housing demand should be part of a strategy to address housing affordability, and such efforts have started.

The result of these growing sources of demand is that, despite downturns or price corrections every decade or so, residential prices in the region over the long term have risen faster than inflation and faster than local household incomes.

Demand for Strata Units Increased

Rising demand for ownership and reduced rates of rental construction have caused strata title unit construction to become the dominant form of new multifamily development in this region. This has had major consequences for the rental market. Rising strata unit prices have caused residential land values to escalate rapidly; in most of Metro Vancouver, these land values are much higher than what a rental developer can afford to pay, so rental developers have a hard time competing to acquire land. Also, while about 15% to 20% of new strata units tend to end up in the rental pool, these units tend to rent for much more than purpose built rental units, mainly because they are a higher end product, and they are not a secure stock of units as the owners could take occupancy at any time.

Supply of Greenfield Development Sites Dwindled

The supply of greenfield development lands in the region (which is bounded by the sea, mountains, and the US border and which has a large portion of the land base in agricultural use and open space) has gradually been depleted so that new low density, suburban residential units have comprised a decreasing share of new construction. Higher density housing, in urban nodes, accounts for an increasing share of new residential construction. Most of this new construction involves strata titled units, in locations that are also the preferred locations for higher density rental housing because of access to transit, schools, shopping, and jobs.

Approvals Processes are More Complex

Approvals processes have generally become more complex and time-consuming in the region. There are various reasons for this, including: community concerns about redevelopment and densification (requiring more consultation, longer time frames, and in some cases rejections); increased municipal involvement in the design process to deal with urban design, architectural character, and neighbourhood "fit"; increased municipal requirements such as sustainability measures and amenity contributions; and others. These factors



add time and cost, which means that the flow of new housing to the market is constrained. Turning down the supply tap in the face of strong demand leads directly to upward pressure on sales prices and rents.

The Result

Demand is growing, purpose-built rental supply is not keeping up, new rental housing is financially difficult for non-profits and private developers alike, and rents are rising faster than household income.

2.2 A Review of the Financial Challenges Faced by Rental Housing

Even though rents are rising - which is hard for renters but ought to make new investment attractive - it is difficult to make new rental construction "work" in financial terms under current market conditions in Metro Vancouver.

This section provides a high level overview of the financial challenges using some generalized numbers that illustrate the range of conditions across the region. It is important to understand the nature and severity of these challenges, as they have implications for the kinds of actions that are needed to facilitate more rapid construction of new rental.

To illustrate the financial challenge, Exhibits 1 and 2 show the relationships between incomes, affordable rents, and the rent needed to make a new project viable.

Exhibit 1 combines three different kinds of information about the one bedroom unit rental market in the Vancouver Census Metropolitan Area.

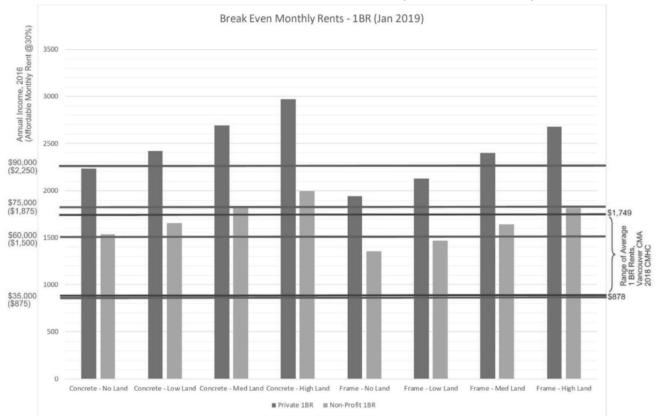


Exhibit 1: Financial Barriers to Affordable Rental Construction (One Bedroom Units)

The red horizontal lines show the range of average one bedroom purpose-built apartment rents for municipalities in the CMA, as reported by CMHC for late 2018:



- The lower red line (at \$878 per month) corresponds to Maple Ridge. Other communities near this lower
 end of the rental market include Delta (\$931) and Surrey (\$978). See Appendix 1 for full data on average
 rents by municipality.
- The upper red line (\$1749) is in the University Endowment Lands. The City of Vancouver, West Vancouver, and North Vancouver (City and District) are in the upper end of the rental market, with average rents in the \$1300 to \$1600 per month range.
- All the other communities are between these bookends; in broad terms, rents decline from west to east.

The green horizontal lines show the monthly rents that are affordable for households with various annual incomes, using data from the 2016 Census. Affordable rent is calculated as 30% of annual income, divided by 12 to yield monthly rent. The household incomes represented on the graph are:

- \$35,000 (which is about 50% of the regional median). Incomes below this line are generally regarded as very low income by Metro Vancouver.
- \$60,000 (which is about 80% of the regional median). Household income between \$35,000 and \$60,000 range is considered low income by Metro Vancouver.
- \$75,000, which is the median household income for all of Metro Vancouver. Note that the median household income of renters is lower, at about \$49,000.
- \$90,000 (which is about 120% of the regional median). Household Income between \$60,000 and \$90,000 is considered moderate.

These first two components of the graph support some important conclusions about the regional rental market (for one bedroom units):

- Households with incomes below \$35,000 have difficulty finding any affordable rental accommodation in most parts of the region. One bedroom units are not suitable for families with children, so they face even greater challenges finding affordable homes.
- Households with incomes in the \$35,000 to \$60,000 range can afford average rents in all but the most expensive markets, although with vacancy so low they will have trouble finding units.
- Households with incomes at or above the median of \$75,000 can afford units almost anywhere, although low vacancy is still a constraint.

The last component of the graph (the vertical bars) shows in the calculated minimum average rent that is needed to make new rental construction financially viable under a range of different scenarios. The detailed assumptions for these calculations are shown in Appendix 2. The graph illustrates these scenarios:

- The blue bars represent private sector projects and the grey bars represent non-profit projects. The key differences are that the private sector projects are assumed to require a developer profit (which is set at 15% of land and construction cost), whereas the non-profits are assumed to need a management fee (which is assumed to be 5% of land and construction cost), and the private sector projects are assumed to obtain financing at market rates while the non-profits are assumed to have access to favourable financing (lower interest rate, longer amortization period). Reducing the financing rates even further would lower the breakeven rates.
- The bars show calculations for concrete and wood frame construction scenarios.
- The bars also show different assumptions about the amount that is paid for land, including no land cost
 and low, medium, and high cost (representing a range that includes most development sites in the region
 but excludes very high value markets).



The vertical bars indicate the break-even monthly average rent, where "break-even" means the rent covers all operating costs and covers 100% of the cost to create the unit, assuming that either 100% of the cost is borrowed or any equity earns the same interest that is paid on the mortgage. This is probably conservative, in that most private investors would expect to make a return on equity that is higher than mortgage rates.

These vertical bars show the challenge with delivering new rental product:

- Private developers can deliver new concrete units affordable to households with \$90,000 income, but
 only if the land is free. As land cost rises, the break event rents are only affordable to high income
 households. The situation is better for wood frame units, which cost less to build. The private sector can
 deliver units aimed at households with just over \$75,000 income if land is free.
- Non-profit developers can deliver concrete units affordable for households with \$60,000 income but only
 if the land is free. With wood frame construction, non-profits can deliver units aimed at households with
 around \$55,000 if land is free.
- It is not possible for the private sector or the non-profit sector to deliver financially viable units (under the assumptions in these calculations) that are affordable for households with incomes below around \$50,000 even with free land, without some way to offset or reduce cost. This is mainly because of the high cost of construction. The only way to make these projects work in financial terms is to have some combination of a significant reduction in construction cost (e.g. no parking, no DCCs), grants, financing at low rates, or some other way to offset the cost. One way to offset the cost is to make additional strata density available in exchange for affordable housing. Another way to offset the cost is to include a mix of higher and lower rental units (i.e. a mix of household incomes). Using the example of a non-profit concrete one bedroom unit with no land cost (the left-most grey bar in Exhibit 1), the breakeven average rent is around \$1,500 per month but the target rent for a household earning \$50,000 would be \$1,250. The average of \$1,500 could be achieved if 50% of the units are rented at \$1,250 and 50% are rented at \$1,750 (which needs household income of \$70,000).

Exhibit 2 shows the same kinds of information, but for two bedroom units. The outcomes are similar.

Break Even Monthly Rents - 2BR (Jan 2019) 4500 Annual Income, 2016 (Affordable Monthly Rent @30%) 3500 2500 2.408 \$90,000 (\$2,250) \$75,000 (\$1,875)\$60,000 (\$1,500) \$1,120 \$35,000 (\$875) 0 Concrete - No Land Concrete - Low Land Concrete - Med Land Concrete - High Land Frame - No Land Frame - Low Land Frame - Med Land ■ Private 2BR ■ Non-Profit 2Br

Exhibit 2: Financial Barriers to Affordable Rental Construction (Two Bedroom Units)

These exhibits show the severity of the financial challenge. The exhibits also point the way to possible solutions:

- Rental units aimed at households with very low incomes (under \$35,000) require large financial
 assistance, in the form of free land, reduced construction cost, favourable financing and some additional
 support such as grants, very low cost financing, or some other means to offset the cost.
- Rental units aimed at households with low incomes (\$35,000 to \$60,000) require assistance, including
 free or very low cost land, reduced cost and favourable financing, but the degree of grant funding, interest
 rate reduction, or cost offset is less. Adding strata density or including a mix of lower and higher rents
 can help achieve the required offset.
- Rental units aimed at households with the lower end of moderate incomes (\$60,000 to \$75,000) can work
 with free or low cost land if the units are wood frame. For concrete units, some additional help is needed,
 such as reduced construction cost.
- Even for units aimed at the upper end of moderate income (\$75,000 to \$90,000), land cost must be minimized.

Reduced (or eliminated) land cost is part of the solution in all cases.

Exhibit 3 uses a different approach to show how big the gap is that must be closed.

Exhibit 3 starts with assumptions about the target rents to be achieved (based on different levels of household income) and then shows the implications for the supportable construction cost of new units.



Exhibit 3

Calculation of Maximum Capital Cost for Affordable 2BR Units

Monthly Pmt Factor (for Principal = \$1)

Principal Factor (for Pmt = \$1)

Assumptions:			Target Income Group						
Annual Income			\$	35,000	\$	60,000	\$	75,000	
Affordable Monthly Rent @	30%	ó	of income	\$	875	\$	1,500	\$	1,875
Less: Monthly Operating Cost if	\$ 6,2	00	/year	\$	517	\$	517	\$	517
Net Operating Income				\$	358	\$	983	\$	1,358
Financing Terms:									
Interest Rate									
Nominal rate (%/year sa compounding)		3.0%							
Effective rate per compounding period		1.5%							
Equivalent Monthly rate			0.2484517%						
Amortization Period									
# Years		50							
# Months			600						
Payment as % of NOI		100%							

-\$0.0032084

\$311.6785439

Calculation of Mortgage Supported by Income:				Target Income Group						
Annual Income				\$	35,000	\$	60,000	\$	75,000	
Monthly Mortgage Payment:		\$	358	\$	983	\$	1,358			
Supportable Mortgage				\$	111,685	\$	306,484	\$	423,363	
Calculation of Maximum Costruction	n Cost for A	ffordable 2BR	Unit	:						
Supportable Mortgage				\$	111,685	\$	306,484	\$	423,363	
Less: NON-PROFIT Dev Fee @	5%	of Const Cos	t	\$	5,318	\$	14,594	\$	20,160	
Costruction Cost After Dev Fee				\$	106,366	\$	291,889	\$	403,203	
Less: Land Cost at	\$		-	\$	-	\$	-	\$	-	
Maximum Total Construction Cost				\$	106,366	\$	291,889	\$	403,203	
Net 2 BR Unit Size	750	SqFt								
Net -to-Gross Ratio	85%									
Gross 2 BR Unit Size	882	SqFt			882		882		882	
Maximum Construction Cost/SqFt				\$	121	\$	331	\$	457	
Current Construction Cost/SqFt - Co	\$ 500	0.00								
Current Construction Cost/SqFt - Fr	\$ 420	0.00								
Required Reduction in Cost or Avai	lable Cushic	n (i.e. for add	lition	al La	nd Cost or D	ev l	Fee)			

Exhibit 3 only shows numbers for two bedroom units and only shows the numbers from the perspective of non-profit housing developers, who are assumed to have access to favourable long term financing.

169.19 -\$

89.19 \$

379.45 -\$

299.45 -\$

Household Income of \$35,000

Concrete (\$/SqFt)

Frame (\$/SqFt)

Looking at the column for \$35,000 household income, the exhibit shows that the maximum construction cost (assuming no land, a 5% fee rather than a developer profit, and favourable financing) is about \$121 per square foot. This is (in round numbers) \$380 less than the cost of concrete and \$300 less than the cost of wood frame construction. These reductions are not achievable by measures such as eliminating parking or DCCs. These required reductions mean that projects aimed at very low income households need a very large injection of assistance. For illustrative purposes, if the mortgage rate is lowered to 1%, operating costs are reduced by \$2,000 per year (e.g. property tax reduction or subsidy), and construction cost is reduced by \$100 per square foot (no parking, no DCC), the project would still need a capital grant of \$100 to \$150 per square foot to breakeven. Clearly housing aimed at very low income households must be heavily subsidized by the public sector.



Household Income of \$60,000

Looking at the \$60,000 household income column in Exhibit 3, the concrete option is short by about \$170 and wood frame is short by about \$90 per square foot. Elimination of parking and waiving DCCs could cover much of this shortfall. If the hard and soft cost of an underground parking stall is around \$60,000 to \$65,000 and if average gross unit size is say 800 square feet assuming a mix of mostly 1 and 2 bedroom units, then eliminating the parking stall reduces cost by about \$75 to \$80 per square foot. DCCs vary around the region but eliminating or reducing them for affordable housing could knock another \$20 or so off the cost.

Household Income of \$75,000

For household income of \$75,000, concrete and frame projects are feasible (with some cost reduction for concrete), but it must be remembered that no land cost has been included.

Implications for Assistance

These numbers lead to the same conclusions supported by Exhibits 1 and 2:

- Housing for very low income households needs a large injection of assistance, in addition to free land, lower cost, and favourable financing.
- Housing for households in the \$60,000 range is close to working in financial terms and can be viable for non-profits who do not have to pay for land if there are cost reductions.
- Housing for households in the \$75,000 range is financially workable if land is free.

Again, the evidence is compelling that the delivery of affordable rental housing requires (depending on the income group being targeted) a combination of free land, favourable financing, cost reductions (e.g. parking reduced and DCCs waived), and possibly some other assistance such as grants, mixing market and non-market rental, or injecting CAC revenue to offset housing cost.

This is why Metro Vancouver and its study partners have placed high priority on finding ways to solve the challenge of land availability. Even with other financial supports in place, it is not possible to create new rental housing unless sites or density are made available so private sector and non-profit rental developers can build units. This is not the whole problem, but it is one of the biggest obstacles to new rental construction.

2.3 What Can be Done? What is Being Done?

The rental housing situation is acute, but it did not get this way overnight. It has been clear for quite a while that the pace of rental construction was too low, that vacancy was too low, and that rents were growing too quickly. So, local governments, rental housing developers, and the Province have been trying various approaches to create more affordable rental units.

The problem of insufficient rental construction is not unique to this region and other jurisdictions have been taking action to spur the creation of more affordable units, especially in transit-oriented locations.

This section provides a survey of the current landscape as a foundation for how to make improvements.

2.3.1 What Can Local Governments Do About Rental Housing?

This is a high level summary of the array of tools that local governments can apply to create or facilitate more rental housing.



The short answer is that BC local governments have considerable power to take action, subject to their available financial resources, their priorities, and local political considerations.

Municipal Authority

Municipal powers in BC flow mainly from the Local Government Act and the Community Charter.

Regarding rental housing, these two pieces of legislation enable municipalities to act in a variety of ways to regulate development, make land available, support affordable rental developments, or construct and operate rental housing.

Perhaps the most sweeping authority is created by Section 8 of the Community Charter, which states in 8.1 that "A municipality has the capacity, rights, powers and privileges of natural person of full capacity" and in 8.2 that "A municipality may provide any services that the council considers necessary or desirable and may do this directly or through another public authority or another person or organization."

These sections enable broad scope to fund housing, provide land for housing, own and operate housing, or assist organizations in the development and operation of housing. Section 24 anticipates that a municipality might dispose of land or improvements for less than market value, guarantee a loan, or partner with another organization, although public notice is required and Section 25 states that a council "must not provide a grant, benefit, advantage or other form of assistance to a business".

The Charter also enables municipalities to provide property tax relief under various circumstances. For example, Section 224 authorizes permissive exemptions for property taxes which could exempt land and improvements owned by a non-profit organization, which could be used for affordable housing. Section 226 allows revitalization tax exemptions which could be used to reduce property taxes for up to 10 years for various kinds of development, which could include rental housing even if owned by the private sector (because revitalization tax exemptions are excluded from the general prohibition against providing assistance to a business).

Zoning, DCCs and Affordable Housing

The Local Government Act contains zoning provisions that could be used to support rental housing. There are three main ways in which the zoning authority allows local governments to take positive action to facilitate affordable housing:

- The broadest power flows from Section 479, which enables municipalities to adopt zoning bylaws that regulate land use, density, and other development parameters. Municipal Councils have complete discretion as to whether to change the zoning on property, which means they have the ability to establish conditions under which rezoning is, in their view, in the community's best interest. This ability to set conditions has been used by municipalities in BC to require developments that are undergoing rezoning to provide public benefits in the form of Community Amenity Contributions, affordable housing (units or cash paid into an affordable housing fund), heritage building conservation if applicable, and others. Local governments in Metro Vancouver have made extensive use of this rezoning discretion to negotiate the provision of rental housing as part of redevelopment projects. Affordable housing provided in this way has been secured via housing agreements, covenants, phased development agreements, requirements to transfer the ownership of affordable units to the municipality or a non-profit, or other means.
- Section 482 enables municipalities to use density bonusing as a way to obtain affordable housing or
 public amenities. Density bonus bylaws establish a base density that is achievable without providing
 public benefits and additional density that, at the developer's option, can be achieved if a prescribed
 affordable housing component (usually secured via a housing agreement) or other amenity contribution
 is provided.



Section 481, adopted in 2018, gives municipalities a new zoning power to "...limit the form of tenure to
residential rental tenure within a zone or part of a zone...in which multi-family residential use is permitted".
 This limit could apply to an entire parcel or to a specified number, portion, or percentage of units in a
building.

The Local Government Act also allows municipalities to impose Development Cost Charges (DCCs) on new development, to help fund growth-related community-wide infrastructure. With few exceptions, the allowable infrastructure is limited to water, sewer, roads, drainage, and park acquisition. However, the Act does allow municipalities to waive or reduce the DCC for not-for-profit rental housing and for-profit affordable rental housing.

Municipal Borrowing

Municipalities can borrow funds for public purposes, including borrowing to construct affordable housing if that is a municipal priority and if the municipality has the borrowing capacity (based on its calculated borrowing limits and its other needs for capital spending).

Most municipalities borrow through the BC Municipal Finance Authority, so they benefit from low borrowing rates because of the strength of the Province's credit rating.

Tax Increment Financing (TIF) is sometimes suggested as a borrowing mechanism that could be used to fund affordable housing. In TIF, the property tax increases in a defined area (typically an area in which property values are expected to increase due to public infrastructure investment) are dedicated to paying back a loan or a bond issue. This vehicle can be useful if a lender or bond holder wants assurance that a defined portion of municipal tax revenue is allocated to repayment regardless of other municipal financial circumstances. However, it is important to note that TIF is simply one way of securing debt payments. It does not produce tax revenue that would not otherwise exist, so it is not a means of creating "new" money for affordable housing (or any other civic purpose). Alberta's provision for a municipal Community Revitalization Levy is a rare form of TIF that does yield "new" money, but only because in designated CRL areas the Province of Alberta gives its share of increased property taxes to the municipality.

Summary

Based on the Community Charter and the Local Government Act, local governments can:

- Acquire land and make it available for less than market value for affordable housing provided by a non-profit entity.
- Invest in the creation of affordable rental housing or partner with organizations for the creation of affordable housing.
- Use their zoning powers to achieve affordable rental housing in redevelopment projects that involve rezoning.
- Use their ""rental only"" zoning power to try to make it easier for rental housing developers to obtain sites.
- Reduce or eliminate development fees for rental housing.
- Alter development regulations to reduce construction cost (e.g. reduce parking requirements).
- Reduce property taxes for rental housing.
- Increase the pace of project approvals to help increase the pace of new unit construction.



 Plan areas for densification and redevelopment to create more capacity for multifamily residential development in suitable locations such as areas well-served with transit.

2.3.2 What are Local and Regional Agencies Doing?

Local governments and regional agencies are already using a wide variety of approaches to address housing affordability.

Metro Vancouver provides technical analysis and assistance to local government, provides regional land use planning policy, works to coordinate land use planning with regional transportation planning, and makes some sites available for affordable housing (although it does not own much land).

The Metro Vancouver Housing Corporation is a non-profit entity that owns and operates homes for more than 9,000 people in 49 properties around the region. These units are rented at below-market rates, in some cases with rents geared to income.

Municipalities in Metro Vancouver use a variety of approaches to facilitate affordable rental housing.

Appendix 4 contains a summary of the approaches currently used around the region.

Broadly speaking:

- Most municipalities are using their zoning authority to make affordable housing gains. Widely used approaches include: allowing for secondary suites and laneway/coach house units; requiring some form of protection and/or replacement requirements for existing rental units when such properties are rezoned and redeveloped; negotiating affordable housing contributions as part of density bonusing or rezonings, either in the form of on-site units or a cash contribution to an affordable housing fund; and parking reductions.
- Some municipalities are reducing or waiving their DCCs (or DCLs in the case of Vancouver) for rental housing, but about half do not.
- Some municipalities are making lands available on favourable terms to non-profits for affordable housing but the use of this approach is limited because most municipalities in this region do not have large inventories of vacant land that could be used exclusively for housing (the majority of municipal land holdings are used for parks and open space, recreation facilities, community and civic facilities).
- Some municipalities are using what could be considered inclusionary requirements when sites are being
 rezoned, as a means to require that new residential projects include a proportion of affordable units and/or
 a proportion of two and three bedroom units for families. This is not inclusionary zoning of the sort that is
 mandatory in all projects, as this is not allowed under current legislation.
- Some municipalities have policies that require the replacement of existing rental stock when sites with
 older rental units are being redeveloped to higher density. In some cases, these policies are applied at
 rezoning with extra density to help make the replacement of older units viable. In some cases these
 policies apply under existing zoning with no density increase, so the policy generally has the effect of
 preventing redevelopment because it is not financially viable.
- Only a few municipalities have adopted bylaws that use the new "rental only" zoning tool.



While some municipalities have made CAC funds (from cash-in-lieu contributions at rezoning) available
to assist affordable housing construction, only Vancouver has made a major direct investment of its own
capital in the creation of new housing.

Most municipalities in the region can be characterized as having used their regulatory powers to facilitate new affordable rental housing, but not having made large direct capital investments in the form of land or cash for new projects. This is presumably because they see capital investment as the role of the Provincial and Federal governments and because they do not think it appropriate to redirect existing revenues to housing from other municipal objectives or to increase borrowing or taxation to fund housing.

There is a growing urgency among local governments to take action and there is a wide array of recent/current initiatives and experiments. Current examples include:

- Burnaby has amended its zoning bylaw to include provision for "rental only" residential zoning. This
 bylaw is written to provide the option of layering "rental only" density onto other density allowed on a lot.
 The bylaw could be used, therefore, to zone sites entirely for "rental only" or for a combination of "rental
 only" and non-restricted residential. The bylaw has not yet been applied to any sites.
- New Westminster has passed a bylaw to rezone some existing privately owned apartment buildings to "rental only". These buildings were strata title when constructed decades ago, but have been operated as though they were purpose built rental housing. This rezoning is intended to keep the buildings in rental use. This has been supported by some in the community, but some of the owners are strongly opposed and the Urban Development Institute has opposed the rezoning because of its impact on the value of the private properties.
- New Westminster has also drafted an inclusionary housing policy for discussion during the first half of 2019. The policy proposes that all new strata projects seeking rezoning will have to include a proportion of units that are below market rental units. The policy also outlines incentives (extra density) intended to offset the cost.
- West Vancouver is considering offering a municipally owned site to the market for development of a
 combination of strata development (to recover the initial investment in acquiring the land) and belowmarket rental units that will be targeted at important segments of the work force that West Vancouver has
 difficulty attracting and retaining (e.g. school teachers, first responders). The municipality is considering
 a rent structure that will be affordable for entry level workers in these jobs and is sufficient to cover the
 capital and operating cost of the units (but not land value).
- Richmond is considering a combination of DCC waivers and incentive density to encourage more rental housing.
- Vancouver has modified its CAC policy so that most rental projects are not expected to pay CACs.
- Several municipalities are planning to make approvals processes faster for affordable housing projects
 (although private sector and non-profit developers are skeptical about this, as they see little evidence that
 the intention has been translated into real administrative change).

These are examples of a more aggressive municipal approach to encouraging rental housing that is emerging in the region. Some of these initiatives are controversial and some will have impacts on the market that are not yet fully understood. It is also worth noting that these approaches will make the overall regional pattern of development regulation even more diverse than it already is. Municipalities are all working on individual



approaches, which is challenging for regional developers (private and non-profit) who are active in multiple communities.

2.4 Federal and Provincial Governments

The Federal and Provincial governments are injecting funds into the construction of rental housing. Most of this money is being made available for the construction of publicly-owned non-market housing or to non-profits, in the form of low interest loans, capital grants, and operating grants for affordable and non-market housing.

The Province of BC has also made changes to legislation and regulations with the stated intention of addressing housing affordability. These include:

- Adding a property tax surcharge on high value residential properties.
- Adding a speculation/vacant tax in selected urban areas (including Metro Vancouver), applied to
 properties that are not principal residences and not rented out.
- Increasing the property transfer tax for higher value properties.

These initiatives along with new mortgage qualification requirements have started to reduce house sales prices. The vacancy tax has shifted a small number of existing units into the rental pool.

In addition, the Province has reduced the maximum allowable annual rent increase in existing rental stock and ended fixed term leases under the Residential Tenancy Act (except for units being re-occupied by the owner). These steps benefit existing renters in the short term, but they do nothing to increase the supply of new purpose built rental housing and may actually cause reduced investor interest in creating new product.

2.5 Two Case Studies: Seattle and Los Angeles

The study partners identified the Seattle and Los Angeles regions as interesting examples of how local government and regional transit agencies can work together to help facilitate more affordable housing construction. So, these two regions were examined as case studies to see what they have been doing, what is working, and whether there are useful lessons to apply to Metro Vancouver.

These case studies are based on interviews with staff members in the cities and regional transit authorities and a review of online documents available from the agencies.

It is important to keep in mind one important fact when trying to import lessons to Metro Vancouver from these two American regions. A combination of laws and litigation pertaining to condo development has resulted in a situation in which very little high density condo (i.e. strata title) development is occurring in Washington⁶ and California (and other states as well). The multifamily market in Seattle and Los Angeles, therefore, is almost entirely comprised of rental housing⁷. As a result, rental developers have to be able to compete sites away from lower density rental residential or commercial uses, but they don't have to compete with strata residential developers.

⁷ One consequence of this situation is increased urban sprawl, as the ownership market is limited to single detached units.



⁶ Washington State is considering legislation to reduce some of the risks and liabilities that have constrained development of new condos, in order to encourage more high density home ownership options and to reduce price pressure on the existing condo stock.

2.5.1 Seattle Region

This case study summarizes ways in which the City of Seattle and Sound Transit (the regional agency that provides transit service in the large Puget Sound metropolitan area that includes Seattle, Everett, Tacoma, and other communities) have been working to help generate more affordable rental housing in transit-served areas.

City of Seattle

Washington state legislation enables local governments to use incentive zoning (in which increased density is granted in exchange for defined public benefits) and to use inclusionary zoning (which requires that a portion of the units in a new project meet affordability requirements). Seattle has been using incentive zoning for many years to achieve benefits including affordable housing, public open space, child care space, and preservation of farm and forest land (developers get density credits when they acquire and protect these lands). Use of this system was voluntary; developers could decide to seek the extra density (and provide the public benefits) or not.

In response to growing concerns about housing affordability, starting in 2016 Seattle began to plan for Mandatory Housing Affordability (MAH) requirements. The MAH program requires that all eligible projects must either include a prescribed amount of affordable housing or must contribute to a fund that supports the construction of new units by the City of Seattle.

The MAH and incentive zoning programs both apply in some cases: a project can achieve extra density in exchange for public benefits and also be required to meet the MAH conditions.

The City aims to apply the MAH requirements in all multifamily and commercial zones and in all urban villages consistent with the City's *Seattle 2035 Comprehensive Plan*. The objective is to increase housing choices, particularly in areas that are gauged as having high access to opportunity (transit, parks, jobs, services) and low risk of displacement of low income people. Where there is deemed to be high displacement risk, the aim is to concentrate new development (with MAH requirements) within a 5 minute walk of frequent transit.

The key message is that MAH will apply in many parts of the City and will apply to a large proportion of new developments.

To make the MAH system financially viable, and to address concerns about the impact on land value of imposing new requirements, new density is being added to the zones with MAH requirements. Land economics analysis was used to make sure there was a reasonable balance between the value added by new density and the cost of meeting the MAH requirements. The City claims that it was primarily interested in making sure developers would use the extra density and provide the affordable units, so was not concerned if the deal was "too good" for developers (i.e. the value of the extra density exceeds the cost of the affordable requirement).

Density increases are occurring across the full spectrum of neighbourhood types: some single detached areas are absorbing duplex, duplex/triplex areas are shifting to low rise apartment, low-rise areas are transitioning to mid-rise. The density increases and the MAH are all encoded in zoning changes enacted by the City; developers to not have to apply to rezone.

The MAH requirements vary by zone and by location, presumably linked to market conditions and financial viability. The City estimates that projects that provide units will have 5% to 11% affordable units and projects that contribute to the housing fund will pay between \$5 and \$33 per square foot of gross project area (less defined exclusions, which are complex).

City staff indicated that the City prefers developers to use the cash-in-lieu option as this enables the City to tap Federal matching funding for affordable housing.



The affordable units are aimed at certain income groups and have maximum rents (and rent adjustment formulas) that are imposed via a covenant on title. For example, for a single person the maximum income to be eligible for an affordable unit is \$40,320 and the maximum rent is \$1,008 per month for a one bedroom unit (which works out to 30% of income). For a family of four, the income limit is \$57,600 and the maximum rent is \$1,296 for a two bedroom unit (27% of income).

Because almost all multifamily development in Seattle is rental, there is no "rental only" zoning in place. The units provided by developers remain owned by the developers. There is a general preference to not mix housing tenures, so in rental buildings the affordable units are rental and in the (rare) condo projects the affordable units are condo.

The City is hoping that this system will contribute to the creation of about 20,000 affordable homes during 2016 to 2025. Because the program is new, though, not much housing has been completed. The City reports that the pace of development applications has increased significantly.

The MAH program is not without controversy. According to City staff, there has been some pushback in neighbourhoods that are opposed to the increased density. Based on local newspaper opinion pieces, there are developers and commentators who say the cost of the affordable component is higher than the benefit of the additional zoning and will lead to some projects becoming non-viable. There may even be legal challenges, as there appear to be differences of opinion regarding whether State law allows the program as designed. For these reasons, the MAH plan continues to be refined.

The City of Seattle also has a Housing Levy, which is a surcharge on property taxes to raise money for capital and operating costs for affordable housing. This Levy has been in place since 1981 and has been re-approved 5 times since then. The most recent version came into force in 2016 and is projected to generate \$290 million over 7 years. The City estimates that the median cost to Seattle homeowners is about \$122 per year.

Sound Transit

Sound Transit owns, builds, and operates the transit system that serves the Puget Sound urban region that includes Seattle. There are about 50 local governments in the service area.

Since its inception in the 1990s, Sound Transit has been supportive of TOD (Transit Oriented Development) but initially had little direct involvement in land use planning or development.

Starting in about 2010, Sound Transit elevated the priority of linking transit and development planning. In 2012, the agency's Board adopted a Transit Oriented Development Policy that directed the agency to consider TOD outcomes early and the planning for new transit investments. The agency has a two-pronged approach consisting of "Agency TOD", which is the direct implementation of TOD on Sound Transit's property, and "Community TOD", in which the agency supports local governments in planning for development around transit stations.

Further strategic planning in 2012 to 2015 resulted in a greater commitment to integrating transit infrastructure planning with local and regional land use planning. In 2015, the State of Washington amended Sound Transit's enabling legislation, directing the agency to do more to achieve TOD and affordable housing goals.

As a means of implementing this direction, the legislation requires that a "minimum of eighty percent...of surplus property to be disposed...that is suitable for development as housing must be offered...at no cost, sale, or lease first to qualified entities that agree to develop affordable housing on the property, consistent with local land use and zoning bylaws." Qualified entities include local governments, housing authorities, and non-profit developers.

When a qualified developer is awarded a site, at least 80 percent of the units must be affordable to those earning 80% of median income in the applicable county.



To advance these goals, Sound Transit has been working on a more strategic approach to land acquisition for transit projects. The agency is still somewhat constrained by legislation, in that it is only authorized to buy land that is needed for transit projects, but it is trying to become more strategic about when it buys land, where it locates stations (and buys land), and parcel configuration so that any lands that are surplus post-construction are workable development sites.

There have been a few pilot projects in 2017 and 2018, totaling about 600 units. But the agency is now gearing up with more staff to work with local governments to integrate land use and transit planning and more staff advising on land acquisition.

Sites designated surplus and made available for affordable housing are offered via Request For Proposals (RFP). Prior to issuing an RFP, Sound Transit works with the applicable local government and communities to establish goals, priorities, land use, and density for the site. Successful developers are responsible for final design and approvals and the transactions do not complete until all necessary permits are issued. Sites have been offered for sale or long term lease. The degree of discount from market value depends on the site, the location, the concept plan, and the developer.

Making surplus lands available for less than market value has triggered some debate. Some stakeholders take the view that lands should be sold at full market value to provide revenue for transit infrastructure. On the other hand, there is support for helping achieve more affordable housing in transit-served locations. Generally, support for affordable housing is stronger in the region's core (Seattle) and less so in smaller outlying areas that want to see transit spur market development.

Some projects have contained all affordable units and some have been mixed market and affordable. All development so far has been rental, consistent with general market trends.

The local market has been slow to warm to the idea of long term land leases, so there is a preference for sale. Sound Transit hopes to make more use of land leases in the future.

Affordable housing units remain owned by the developer, with housing covenants in place to maintain affordable rents.

So far, most development has been in the City of Seattle; Sound Transit has been careful to not be too aggressive in promoting affordable housing in outlying communities. The agency is focusing on developing guidelines for land acquisition, determining which property is suitable for housing, and determining how much of a discount on land price is appropriate.

2.5.2 Los Angeles Region

City of Los Angeles

In late 2016, voters in the City of Los Angeles approved a measure to require that developers requesting additional residential density provide affordable units or pay a cash-in-lieu fee. The same measure required the City to create a program to provide incentives for affordable housing near transit. In late 2017, the City initiated its Transit Oriented Communities (TOC) Affordable Housing Incentive Program. This program encourages affordable housing within about 800 meters of major transit stops by providing additional density, reducing parking requirements, and providing other incentives.

The affordable housing requirements in a project apply to total floor area (not just the new density). Affordable units are secured by covenant (through the City's Housing Department) and continue to be owned by the developer. Because there is little condo market activity in Los Angeles almost all of the housing being provided in this program is rental.



The affordable requirement was introduced at the same time as new density, with the increases intended to exceed previously allowable density bonuses and intended (based on financial analysis) to ensure that developers would have incentive to proceed under the TOC program. The available extra density is matched to the level of transit service.

The parking reductions are also regarded as a key part of the incentive package.

While the TOC program has not been in place for long, the City indicates that about 10,000 new units, of which 2,000 are affordable, are in the application process. This has caused some observers to wonder if the City gave away too much density, but there is a debate about whether it is better to over-incentivize and get more units than to worry about ensuring an even balance.

The TOC program exists in parallel with City's pre-existing density bonus program. Developers can evaluate both options and select the optimal approach.

Los Angeles has also adopted a Linkage Fee for affordable housing, which is like an impact fee or like a Development Cost Charge for housing. This fee applies to most new development including single detached units, but TOC projects are exempt. The ratio of projects choosing the TOC route versus the density bonus route increased significantly once the Linkage Fee and its exemptions came into force. City staff think developers are preferring to absorb the cost of affordable housing into their own projects rather than write a cheque for the Linkage Fee.

There has been some community backlash in areas that have received a large increase in development activity. Some of this new development may be due to market conditions, not the TOC program on its own, but some residents and politicians are wondering if the program should be revised to require more affordable housing in order to slow the pace of activity.

The system for determining the affordable housing requirement and the incentives for a site is complex. In simplified terms, the system works like this:

- The affordable housing requirements, availability density bonus, and other incentives are codified in the City's zoning, so they are generally "as of right".
- Sites are classed as Tier 1 through Tier 4 depending on the level of transit service and the distance to transit (Tier 1 is the lowest extra density and Tier 4 is the highest).
- Each Tier has a defined requirement for affordable housing, for which the developer has several options.
 For example, a Tier 4 project requires that 11% of the units be affordable for Extremely Low Income households, or 15% of the units be affordable for Very Low Income households, or 20% of the units be affordable to Lower Income households. These income levels are defined in California state legislation.
- Each Tier has a defined increase in the number of dwelling units and a defined increase in density. For
 example, in Tier 4, a project can increase the number of dwelling units by 80% and increase the allowable
 density by 55%.
- Each Tier can achieve a defined decrease in required parking, ranging from 0 to 1 stall per unit.
- Each Tier also has other incentives such as reduced setbacks, reduced requirements for on-site open space, and increased site coverage.
- Projects can achieve additional incentives if they exceed the affordable housing requirements for the Tier.



LA Metro Transit Authority

LA Metro has a Joint Development Program that is intended to optimize the use of its properties for private or public sector development.

The program is intended to achieve three major goals8:

- **Transit prioritization**, which includes preserving the ability to develop and operate the transit system and using properties in ways that will increase transit ridership.
- Community integration, engagement, affordable housing, and design, which emphasizes stakeholder engagement, compatibility of new development with the surrounding neighbourhood, high quality design, and housing affordability. The target is to achieve 35% of new units being affordable for households that earn 60% or less of the median income for the area.
- **Fiscal responsibility**, which includes maximizing revenue (although this is potentially at odds with the affordable housing requirement), minimizing risk, and ongoing financial sustainability.

To contribute to affordable housing and increases in transit ridership, LA Metro makes surplus lands available for residential development. Some sites are available for market development and some include affordable housing (secured by covenant). If affordable housing is included, the value of the land can be discounted by up to about 30% less than fair market value.

LA Metro's role in new development is limited to making land available. The "Joint" in the program title does not refer to direct investment in the housing.

The surplus lands are mainly lands acquired by LA Metro when preparing for new transit projects. Land acquisition is managed strategically to optimize the opportunity for post-construction development opportunities. These opportunities include:

- Sites that were acquired for construction lay-down and staging.
- Sites over transit infrastructure.
- Additional lands that were acquired strategically (e.g. buying whole sites rather than partial sites or
 acquiring extra land to avoid creating awkward or undevelopable parcels post-construction), although the
 agency is careful to avoid backlash due to "too much" government land acquisition.

Sites are almost always leased, on terms ranging from 55 to 90 years. The leases are usually prepaid, but there is sometimes an annual rent component including percentage rent when retail is included. Land and improvements revert to LA Metro upon lease expiry.

Almost all the housing is rental, which matches the overall market and is consistent with the leasehold land tenure.

When a site is identified as a development opportunity, the first step is extensive community consultation with residents and the applicable local government to develop an accepted vision for the uses, density, and height of the project.

When there is a clear consensus on a development concept, LA Metro takes the site to the market via RFP. Proposals are evaluated, and LA Metro selects a preferred developer based on criteria including affordable housing and land price. LA Metro then enters into an Exclusive Negotiation Agreement with the selected

⁸ These goals could conflict, so presumably the organization seeks to find optimal balance.



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developer, with 30 months to finalize the development plan, agree on detailed financial and lease terms, and obtain necessary municipal approvals. If the concept requires rezoning, this is not usually a challenge because of the extent of initial consultation. The final package of agreements includes the land lease, a joint development agreement (which governs the concept), and a covenant on the affordable units.

The lease includes a positive obligation regarding commencement and completion of construction but there is flexibility, especially to allow time for affordable housing projects to secure their financing.

Most of the properties that will become available were acquired long before they became potential development opportunities. So, LA Metro regards these as not losing money if they are leased for less than market value (although this implies that the agency does not weigh the opportunity cost). There does not seem to be much pushback regarding the discounting of land value (which is allocating money to affordable housing that otherwise could be applied to transit), apparently because the amount of money involved in the discounts is a very small part of the total transit budget.

LA Metro estimates that the program has resulted in about 6,500 housing units so far, with another 6,000 in the pipeline and likely to be developed over the next 5 years or so.

The program has also resulted in some retail and hotel development.

There is very large future development potential, as LA Metro has about 80 rail stations in operation and another 90 being planned.

LA Metro interacts positively with the City of Los Angeles and its Transit Oriented Communities program. The extra density made available by the TOC program helps make projects viable because of the extra density and the parking reductions.

2.6 Other Research

An extensive literature review was not part of the scope of this project. However, the work included examining some "overview" work by academics and housing advocates on the subject of inclusionary zoning, which is a widely used tool to create more affordable rental supply.

Some key common points emerge:

- Inclusionary requirements tend to be more effective in strong real estate markets. This is because the
 high value of market units (strata or rental) is needed to offset the cost of units provided at below market
 rent. Without extra density, inclusionary requirements can only work (if at all) in the locations with the
 highest market rents and strata prices.
- Inclusionary requirements are almost always linked to concurrent zoning-based incentives (such as extra
 density, reduced parking requirements) to make projects viable. Inclusionary zoning on its own (i.e.
 without density bonus or other incentives and subsidies) is not likely to produce many affordable rental
 units, because development economics limit the proportion of affordable units that any project can
 support in the absence of offsetting incentives.
- Inclusionary zoning where successful means that new market housing is happening. This means area redevelopment, which can imply the conversion of older neighbourhoods to new, higher density areas.
- Flexibility in meeting mandatory affordable housing requirements is common, with some jurisdictions allowing a cash-in-lieu option or the ability to provide units in another location.



2.7 Perspectives of Housing Developers in Metro Vancouver

Discussion groups were arranged to learn about the perspectives of private and non-profit housing developers in the region.

2.7.1 Perspectives of Local Private Developers

Several local developers of rental housing participated in a discussion about the challenges of developing new projects. The group included developers who build projects to hold in their own portfolios and developers who build for institutional portfolios.

The key messages from private rental housing developers in Metro Vancouver were:

- 1. It is getting more difficult to make new projects financially viable. High land cost is a major challenge but in addition construction costs are rising and investor cap rates⁹ are rising. A key impact of rising cap rates is that investors will pay less for a given asset, meaning that developers have to produce a project at lower total creation cost (land plus construction plus profit).
- Changes to rent regulations risk making new projects less likely. Investors are concerned about the risk that rents will not be allowed to keep pace with market growth or with escalation in operating and maintenance costs, and that rents will be not adjusted to recover reasonable renovation and update costs.
- 3. Rental does not work if full market value must be paid for land. Rental requires that new density be created via rezoning, with the density available at less than market land value. Some developers argue that new density for rental should have no cost (i.e. no Community Amenity Contribution) and it is better for local government to maximize the incentive for rental construction rather than worry about underrealizing potential CAC revenue.
- 4. Approvals processes are too complex, too time-consuming, and too expensive. Developers familiar with Vancouver and Seattle indicate that project approvals are significantly faster in Seattle. Developers also express concern that "affordable" is defined differently across the various municipalities in Metro Vancouver and suggest that there be more consistency in approvals processes and requirements.
- 5. Developers suggest that there should be more flexibility in finding ways to meet rental housing requirements. Once the value of an affordable housing contribution is agreed on in a rezoning process, there should be some flexibility as to whether the affordable housing requirement is satisfied by units on the site, units in another acceptable site, or via cash-in-lieu paid into an affordable housing fund. Not all projects can easily accommodate affordable units on site, so this flexibility would allow more projects to proceed.
- When a development project is required to include affordable rental units, developers would prefer to retain ownership of the units (with the obligation to maintain rents at agreed-on levels) rather than have to turn ownership over to the municipality or a non-profit.
- 7. Developers generally prefer to not have to use airspace parcels or other means to integrate affordable rental projects into strata projects or market rental projects, if the affordable units will be owned by another entity. Developers and investors prefer to avoid future negotiations or conflicts with other parcel owners regarding the timing and amount of capital expenditures, the amount of strata fees, timing of renovation

⁹ A "cap rate" or capitalization rate is a commonly used, simple indicator of investment performance which links the net operating income from an income-producing asset to its value. Appendix 3 contains a detailed explanation.



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and other asset management decisions. They much prefer stand-alone, independently owned rental projects.

2.7.2 Perspectives of Non Profit Housing Developers

Several non-profit housing agencies participated in discussions about the challenges of developing new non-profit projects. These discussions occurred over two workshops and one conference call, with different participants in each.

The key messages from the non-profit rental community were:

- 1. Most non-profits are developing lands they already own or that are provided to them pursuant to rezoning negotiations. Few are in the marketplace buying development sites.
- Their main financial challenges are finding sufficient capital funding and (for very low rental projects) operating funds.
- 3. The non-profits generally find local government approval processes too long, too complex, and too costly. They also sometimes find that local government expectations regarding design, construction quality, and servicing costs make it challenging for projects because of the extra capital cost. The non-profits generally think local governments could do a better job of fast-tracking approvals for affordable housing project and adapting requirements to match the budget constraints of affordable housing. They don't expect municipalities to approve bad design or poor quality, but to be reasonable in the expectations imposed on non-profit projects.
- 4. Non-profits generally prefer to own and manage stand-alone buildings where they have control over the building, the units, and long term decisions about capital investment or redevelopment. This avoids the need to negotiate with other owners about operations, budgets, and major decisions. It also gives them the ability to more easily cross finance projects (e.g. use the value of one project to assist with financing new projects) and it allows them to benefit from appreciation in the land.
- 5. Non-profits generally think that affordable rental units should be controlled by non-profits not by private developers. They believe that even though private developers can be bound by covenants and operating agreements there will be a tendency to stick to the "letter of the law" rather than make decisions that are in the best interests of the renters. The missions of non-profits are generally aligned with the core objective of affordable housing, so are likely to produce better long term outcomes for renters (such as improving affordability when refinancing allows smaller rent increases).
- 6. When non-profits have to partner with private developers on mixed tenure developments, there is a concern that some non-profits are not as well-equipped as they should be to negotiate deals. There may be times when non-profits don't maximize their outcomes in these deals or when the private partner achieves better returns because the non-profit receives less.
- 7. Non-profits think that local governments should be doing more to reduce the construction cost of new projects, by reducing approvals times, reducing parking requirements, or waiving DCCs. They acknowledge that some municipalities are doing a good job, but others do not appear to put enough priority on taking steps to make rental housing cost less to build.
- Non-profits sometimes experience neighbourhood resistance to increased density and to the inclusion of some kinds of affordable housing. More planning work or more effective engagement processes are needed to identify and confirm locations for higher density, diverse housing development.



- 9. Non-profits have mixed views on how private developers should meet affordable housing obligations associated with rezonings. Some see the financial value of allowing developers to provide units in locations where housing costs are lower (lower land value, lower density that can be built with wood frame), so that a given housing contribution could yield more units, but there is concern about affordable housing being relegated to poor locations and there are different perspectives on whether there should be a diversity of housing options in all locations or whether diversity should be achieved at a broader community scale. Where affordable housing is provided on the same site (or in the same building) as market housing, non-profits are not supportive of making sharp distinctions between housing types, such as segregated outdoor spaces or separate entrances.
- 10. The non-profits perceive that there is a wide variety of organizations that own land that could be used (in whole or in part) for housing, but they don't take action because they have not traditionally been involved in the housing sector. School districts with surplus lands, Legions, local libraries, and labour organizations are examples of organizations that have land that could possibly be used for housing without necessarily reducing the ability of the agency to meet is primary objectives. Some of these agencies are beginning to explore ideas; for example, the Vancouver School Board is exploring the idea of creating housing for teachers on school sites with extra land. However, the non-profit housing providers think that more non-profit and government entities could get involved in providing land for housing. They will need technical and financial assistance and will have to adjust their mandates accordingly.
- 11. Some non-profits perceive that the private sector aims to make too much profit from housing development, a perspective that likely stems from very different motivations and different perspectives on return on investment and risk.
- 12. Some non-profits suggest that there is an important role for governments (local, Provincial, and Federal) to create larger portfolios of land that can be made available for affordable housing development, so that affordable housing providers do not have to rely so heavily on rezoning, density bonusing, or CACs to be able to develop projects. Vienna is cited as an example of a city in which government has assembled over time a large portfolio of land that is used for rental housing with rents set at affordable rates based on incomes.

2.7.3 Similarities and Differences

Both groups have similar perspectives on some items:

- They prefer independence in the ownership and operation of affordable housing projects,
- They think approvals process need to be shortened and reduced in complexity,
- They both deal with the challenge of high land value.

They differ with regard to the ownership of affordable housing:

- Developers would prefer to keep the units, with rent restrictions, as this is better financially and they believe it could yield more units.
- Non-profits see themselves as more likely to prioritize the interests of renters, including increasing the affordability of rents over time.



Part 3: Strategies to Address Land Availability and High Land Cost for Rental Housing

This part of the report describes and evaluates four possible strategies for addressing the barriers of land availability and high land cost.

3.1 Acquiring and Deploying Land for Affordable Rental Housing

One obvious way to eliminate land cost as a financial barrier to new rental housing construction is to make land that is owned or controlled by local entities available on favourable terms. This already happens in a variety of ways:

- There are non-profits that have operated affordable housing on sites they have owned for a very long time. These agencies can redevelop and densify their sites without having to make a new outlay of cash to buy the site.
- There are non-profits, such as churches, that are using part of their sites to accommodate new market and affordable housing. Such groups may be trying to extract some value from their land to fund new facilities and to support new housing.
- Some local governments have made civic land available on favourable terms for affordable housing construction, such as long term land leases for a nominal land rent.
- Regional, Provincial and Federal agencies have developed land, or made it available for affordable housing.

As shown earlier in Exhibits 1 and 2, eliminating land cost has a large impact on the financial viability of affordable rental and market rental (although it is not enough on its own to deal with the challenge of affordable rental housing for households with low income).

It would not be helpful to suggest that the only way to deal with the land availability barrier is for non-profits and governments to just go acquire a large new portfolio of property that could be made available for rental construction. This is a solution, of course, but one that involves significant capital outlay to acquire enough land to make a dent in the need for new units. As this is not currently happening on a large scale, it is reasonable to assume that, for now, governments and non-profits are not able or willing to make this additional investment. Non-profits rely on philanthropy and grants, so their ability to acquire property in the market place is limited by their funding. Governments rely on taxation and have many competing priorities for spending; a significant new outlay for housing land requires increasing taxes or shifting spending away from other programs.

This section concentrates on ways to make land available without large new outlays of cash.

Three different approaches are considered:

- 1. Deployment of lands already owned by local governments or other local and regional government entities.
- Creative acquisition of land by local governments and other local and regional entities.
- Deployment of lands already owned by non-profits. (New acquisition by non-profits is not considered, as this means either getting access to lands in the two above approaches or obtaining funding to acquire land).



3.1.1 Deployment of Lands Already Owned by Local and Regional Government Entities

As previously noted, this already occurs albeit on a limited scale. Several municipalities have made civicowned lands available for housing on favourable lease terms.

More of this could be done, if agencies with land are willing to become more creative in the use of their property to achieve multiple objectives.

Before exploring these possibilities, though, it is important to understand that this approach has financial consequences that should be considered when making land available.

Lands that are already owned, especially if they were acquired in the past at relatively low (by current standards) cost, can be made available without a new investment of cash or new borrowing. Such lands, however, should not be thought of as "free". Lands owned by local and regional entities could be made available for sale or lease on the open market for urban development. Disposing of the land in this way would yield the market value of the land, which would then be available for a wide range of civic purposes including capital expenditures on civic facilities, paying down debt, or funding municipal operating costs, any of which would presumably mean that municipal taxation could be lower than it otherwise would be. Allocating land to affordable housing, at no cost or based on very modest return, means foregoing alternate uses of the land and foregoing the revenue that could otherwise be obtained (i.e. the opportunity cost). This can be a reasonable choice, if housing is a local priority, but it is a choice that should be recognized for what it is: an allocation of a resource that could otherwise be used for other civic purposes or financial outcomes.

The financial impact of foregoing some or all of the revenue from land disposition is obviously directly proportional to the value of land in each submarket and depends on what the land could be otherwise used for. If strata is the most likely alternative market use of a site considered for rental housing, the range in values in Metro Vancouver is wide. Land values for most residential development sites in the region are in the range of about \$50 to \$500 per square foot of developable floor area¹⁰.

One way to make the financial trade-off is to make land available for housing at no or low initial cost, with a requirement for future land rent payments when net operating income permits. This could be called patient investing, as it foregoes the initial revenue from sale in favour of longer term returns from leasing.

Municipalities of course could choose to value land at less than strata values; they could set their expectations based on the value supported by affordable housing or the value supported by "rental-only" zoning. However, this does not change the fact that this would be a deliberate choice to forego revenue. It could be financially challenging for a local government to forego this revenue, so this suggests it is worth looking for properties that could accommodate affordable housing but that would not otherwise be marketable, disposable, or developable as prime private development sites.

For example, some land allocated for civic uses could possibly also include housing, such as recreational and community facilities, libraries, or schools.

¹⁰ Of course there are sites outside the low and high end of this range, but this range likely captures 90% or more of development properties. So, a site of 25,000 square feet zoned for residential at FSR 2 (which is achievable in a low rise form) would be worth \$2.5 million to \$25 million depending on which submarket it is in.



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There are many illustrations of this kind of opportunity in Metro Vancouver, such as:

- There are many properties owned by School Districts that are larger than required for the operation of the school. Vancouver School Board has expressed the intention of looking for opportunities to incorporate rental housing for teachers at sites that have the capacity. Across the region, there are many sites where this is an option although there are tradeoffs involved. Housing on school sites must either occupy a portion of the site that would otherwise be open space (which could be surplus to the required land area for operation of the school, but which the community might regard as "park") or must be integrated into the construction of a new school building, which will require special care with regard to safety and operations.
- Civic properties used for some kinds of recreation facilities could incorporate rental housing, if there is
 unused land or there is potential to integrate housing into a new recreation/civic complex. (This is not a
 municipal example, but an illustration of this approach is the rezoning application by YMCA to redevelop
 its existing older recreation facility on West 49th Avenue near Cambie Street in Vancouver, with a rental
 housing project to be developed on top of the new Y recreation facility).
- The City of Vancouver has several older community branches of the Vancouver Public Library that are
 typically on major commercial streets with good bus service. These facilities are aging and could be
 redeveloped as mixed use projects with a new library at grade and affordable housing above.
- Properties owned by the Province or Canada that could be made available for affordable housing as part of redevelopment projects.
- There are potential development properties at several existing stations on rapid transit lines in the region.
 Some of these are admittedly complicated in physical terms, but they could be reconfigured to yield housing development sites. The King Edward station on the Cambie line has already been used for housing (mostly strata), illustrating the potential for this form of development. Other possible examples include:
 - Air rights development over transit stations.
 - Creative use of segments of the Expo line right of way that are larger than needed for transit. There
 are such sites in Burnaby, for example.
 - Reconfiguration and new development at bus interchanges such as at the Nanaimo and 29th Avenue stations on the Expo line.

For these transit-related properties to become sites for affordable housing, several steps are needed. First, there would have to be cooperation between TransLink and other involved property owners. For example, much of the Expo Line occupies land owned by BC Hydro. TransLink has the right to use this land for transit but not housing. BC Hydro can't use the land for housing if it impairs TransLink's rights. A cooperative approach is essential. Second, local governments would have to be supportive of high density development in these locations. Third, all parties would have to agree on development concepts that are financially viable and include some affordable housing. Not all of these will prove to be feasible development sites. However, across the region there are likely many properties that could be put to use for affordable housing if the public sector owners are willing to think creatively about multiple uses of sites. Lastly, TransLink and other land owners must be willing to achieve less than "highest and best use" value for sites in order to support affordable housing. This will require careful consideration as it means that less revenue would be available to apply to transit infrastructure. Other transit agencies – such as Seattle



and Los Angeles – have made this shift because their mandates have been broadened to also include helping achieve affordable housing at transit locations.

3.1.2 Creative Acquisition by Local and Regional Entities

Local and regional agencies have ways to acquire potential housing sites that do not involve significant direct expenditure.

Local Governments

Local government have the ability to acquire land, either by negotiating the purchase or by expropriation, for civic purposes which could include affordable housing. However, these approaches require paying market value for land.

For local governments to acquire land without paying market value, the main opportunity is to negotiate to take title to parcels of land that are part of large rezoning and redevelopment projects. Such parcels would be considered amenity contributions and could be in place of obtaining other public benefits such as cash contributions, amenities, or units within a project. The advantages of taking parcels of land include:

- flexibility to make the site available for different forms of housing and to different housing providers.
- ability to have stand-alone affordable rental housing projects that are not incorporated into projects with other kinds of units.
- perpetual ownership, which allows control over future long term redevelopment and access to land value growth in the long term.

This approach obviously only works with large scale redevelopment projects in which (a) there is enough extra density being provided to the developer to offset the cost of providing the parcel and (b) the site is large enough to enable subdivision to create multiple parcels.

Local governments launching area planning programs, that anticipate redevelopment and densification, also have an opportunity to aid affordable housing by planning for residential development on civic lands and in some cases by acquiring key sites that are likely to have increased density.

TransLink

One regional agency with a significant future opportunity to acquire new land for housing is TransLink, if its mandate is broadened to include support for affordable housing. When acquiring lands for new transit infrastructure, TransLink has tended in the past to acquire the minimum needed to meet its transit construction needs, because this is consistent with the South Coast British Columbia Transportation Authority Act (the legislation that defines TransLink's responsibilities and powers), which states that:

- The purpose of the agency is to "provide a regional transportation system" (Section 3).
- The agency must "...acquire...real or personal property required for the regional transportation system" Section 4.1.e).
- The agency may acquire land "...other than by expropriation that is not required for the current plans...but...will be required in the future" to facilitate the construction of the regional transportation system (Section 6).
- The agency may "to carry out its purpose" expropriate land (Section 6).



• The agency may "hold, manage, develop, and dispose of land" (Section 6).

These extracts indicate that TransLink is not specifically empowered to become a housing agency or to acquire land with the primary objective of helping address housing affordability. TransLink's internal policies support working with partners to deliver affordable housing, provided TransLink receives full market value for its land and does not provide any subsidy.

However, other transit agencies (see the Seattle and Los Angeles case studies) have had their mandates broadened to recognize that the process of acquiring land for the construction of new transit facilities creates the possibility of also working toward the collateral objective of making land available for affordable housing development. The Seattle and Los Angeles regional transit authorities have adopted a strategic approach to land acquisition for transit projects in order to watch for and act on opportunities for post-construction housing development, such as:

- Choosing station locations with an eye to transit system design as well as opportunities for redevelopment including affordable housing.
- Acquiring sites with an eye to optimizing the potential for post-construction disposition of land or air rights for housing development.
- Acquiring land well in advance of transit construction, to minimize acquisition cost and to create potential for gain in land value.
- Disposing of some lands at less than market value, to assist affordable housing creation.

These strategies could be applied by TransLink in Metro Vancouver when it is acquiring land for construction or expansion of transit facilities.

To implement this approach, TransLink would need:

- Acceptance of (or legislative amendments to permit) an expansion of its ability to acquire land beyond
 the strict requirements for transportation construction.
- The ability to dispose of surplus lands for residential development at less than market value where such
 disposition is in aid of creating affordable housing near transit. If surplus TransLink lands were zoned so
 as to require affordable housing, the market value constraint would be sidestepped because the lands
 would have reduced value.

3.1.3 Deployment of Lands Already Owned by Non-Profits

Non-profits that are already housing developers have land and have the wherewithal to tap sources of funds and expertise to develop (or redevelop) projects.

In Metro Vancouver, there is a wide range of non-profit or charitable entities that have lands for some purpose other than housing. Some of these have ventured into affordable housing, but many have not.

Some examples of projects by entities that are not housing developers per se include:

- Some churches have used surplus portions of their sites to accommodate residential development to generate revenue to apply to new or improved church and community facilities and/or to apply to affordable housing construction.
- YMCA has leveraged its land holdings to fund new recreation facilities and is now also considering incorporating rental housing in a new project.



 A Vancouver teachers' association is proposing to redevelop its office site to create new, expanded office space for its organization and to include rental housing in a mixed use development.

There are opportunities scattered across the region for more initiatives like this.

Legions, labour organizations, and churches are examples of users with properties, many of which are in locations in which redevelopment including housing would be appropriate. While registered charities have restrictions on the kind of housing they can provide, these organizations are not constrained from making sites available for housing development by others (either market rental or affordable rental).

Non-profits report that there are barriers for these kinds of organizations, including:

- Their current mandate does not include housing.
- They are run by volunteers, who may not have the inclination, time, or expertise to consider redevelopment including housing.
- They may be short of funds for the necessary initial work for feasibility analysis and engagement with municipal approvals processes.

These kinds of non-profits would benefit from easy, economical access to development planning assistance, to help them explore the potential for redevelopment to unlock value to create new facilities for their primary purpose as well as provide rental housing. For new rental housing created in this way to be affordable, the non-profits would have to be willing to receive less than full market value for their land.

3.2 Using Rezoning to Achieve Affordable Rental Housing Supply

The use of municipal zoning powers has been the principal means by which local governments have tried to address the need for affordable housing in Metro Vancouver during the last 20 years or so.

In BC, local governments have two different ways to use zoning, based on the Local Government Act, to obtain public benefits including affordable housing. These are usually called Density Bonusing and negotiated Community Amenity Contributions.

Density Bonus

Density bonusing is authorized by Section 482 of the Local Government Act (and a similar provision in the Vancouver Charter), which gives municipalities the ability to zone land for a base density, which is achievable without providing any public benefits, plus supplemental density that is available (at the developer's option) in exchange for providing prescribed public benefits. The public benefits can be in the form of community amenities, affordable housing, cash-in-lieu, or some combination.

When used to achieve affordable housing, a density bonus zoning bylaw may include conditions relating to the affordable housing including the number and kind of units and may include the requirement to enter into a housing agreement as defined by Section 483 of the Local Government Act. A housing agreement can specify the form of tenure of the units, the availability of units to "classes of persons", and the rents or sales prices that can be charged (or a formula for determining them). Such agreements, therefore, are broader in scope than "rental only" zoning, because of the ability to set rents and define specific target client groups.

Density bonusing has these advantages for affordable housing:

• It is explicitly permitted in the Local Government Act.



- It can be tied to a housing agreement registered on title, which can specify conditions including rental tenure, target tenant types, and rents.
- It requires an explicit, transparent link between the extra density that is available and the benefits that must be provided. This is good for developers and community groups looking for predictability.
- It can be implemented via area-wide rezonings, eliminating uncertainty in the planning and approvals process for areas undergoing redevelopment and densification. In these cases, the density bonus bylaw requires that the municipality decide in advance on its allowable densities and priorities for public benefits rather than determine them site-by-site. This "pre-zoning" reduces approvals time, cost and risk. This approach is most effective when potential development sites in an area have similar attributes in terms of existing use and proposed new density.

There are some disadvantages:

- If applied via advance rezonings of areas, there is a loss of flexibility in defining the achievable density
 and the required public benefit contribution, because the density and benefits are formulaic not tailored
 to each project.
- If applied via advance rezoning of areas, the quantum of public benefit per increment of new density must
 be set to work on all redevelopment sites; this means the benefit contribution is not "right sized" for each
 site, which inevitably means the total public benefit yield from an area will be lower than if the contributions
 were determined on a site-by-site basis.
- The bylaw must be updated regularly to make sure the density and the benefits schedules (either for physical benefits such as affordable housing or cash-in-lieu) are current.

Community Amenity Contributions

Negotiated Community Amenity Contributions (CACs) are also sometimes called voluntary amenity contributions or something similar. This method involves negotiations between the municipality and the developer regarding the provision of public benefits as part of a rezoning package for a specific site that includes a change in use and/or a change in density.

BC municipal law does not explicitly empower local governments to exchange density for public benefits.

This ability flows indirectly from other elements of municipal governance, as follows:

- In BC, elected Councils have the full authority and responsibility for deciding whether a change in zoning is in the community interest. Councils do not have to modify their zoning bylaws to match the land use policy in their Official Community Plan, so can make individual rezoning decisions based on the merits of each application. (It is noteworthy that there are jurisdictions where a change to a community plan automatically triggers an obligation to make corresponding amendments to zoning). Except in rare cases in which a municipality acts outside its authority or fails to adhere to procedural requirements, there is no avenue to appeal a zoning decision to the courts (which is also different from jurisdictions where there is an appeal mechanism).
- Councils have an implied obligation to consider the interests of the community when making rezoning
 decisions, which includes determining whether a rezoning would impose unacceptable impacts or
 financial burdens on the community, such as a need for investment in infrastructure or amenities, traffic
 impacts, or impacts on the affordability of housing.



• Because new density has value, developers have an incentive to address the impacts of developments or to provide benefits that attract support for (or at least lessen opposition to) projects. The new density is typically available on terms that (after providing public benefits) still generate some lift in land value for the land owner and create the opportunity for the developer to earn profit on the additional floorspace allowed by the new density. This creates the potential for a win-win-win in which there is additional land value for the land owner (providing an incentive to sell land into the redevelopment market), additional opportunity for the developer, and benefits for the community and local government.

Because of these conditions, it has become common for local governments in BC to negotiate for public benefits when properties are being rezoned to allow redevelopment. Sometimes these contributions are negotiated on a site-specific basis when a property is proposed for rezoning. In other cases, the local government uses a target rate (expressed as dollars per square foot of additional density) that is intended to be more efficient and more transparent by simply articulating the expected contribution rather than requiring a site-by-site analysis and negotiation. Determining the appropriate CAC (or benefit required for a density bonus) requires an understanding of the housing market and development economics, as well as skill in negotiating.

For the development industry and the community to have confidence in the outcomes and the fairness of the process, there is also a need for consistency and transparency. Municipalities in Metro Vancouver use different approaches, have different expectations, and have varying skill sets which result in different outcomes. This causes some criticism of CACs, as they are not always predictable, transparent, or consistent.

Municipalities have discretion to use CACs for amenities (e.g. child care, recreation facilities), affordable housing, or other public benefits. Policy is needed to set out local priorities for the allocation of CACs among possible uses.

CACs in the Housing Market

Density bonusing and CACs are commonly used in Metro Vancouver. Municipalities and the development sector are generally very familiar with (if not always equally supportive of) the concept.

Because these approaches are widely used, this report does not include a detailed introduction to these tools; this information is available in a variety of publications. However, based on extensive work with local governments and the development industry on the application of these tools, there are some key points worth noting about how CACs play out in the housing market.

First, it is necessary to address the claim that is sometimes made that the cost of amenities is passed on to renters and buyers in the form of higher prices. This is not true, for two reasons.

One reason is that residential prices and rents are set by the market; developers cannot arbitrarily add a cost onto market price. It is easy to demonstrate that cost and price are not necessarily in lock-step:

• In Metro Vancouver, over the last few years condo prices have been rising at over 10% per year (until the market downturn starting in 2018 due to new taxes and tighter mortgage rules). Construction costs have been rising, but not as fast. Something else is driving price 11.

¹¹ For example, the average annual change in the Greater Vancouver Apartment Housing Price Index published by the Canadian Real Estate Association for the period December 2012 to December 2017 was 12.3% per year, while the average annual change in the Apartment Building Construction Cost Index for the Vancouver Census Metropolitan Area published by Statistics Canada was about 2.3% per year over a similar time frame.



- Prices vary widely across the region (for example a new mid-market strata unit in Vancouver can sell for two or more times the price of a similar unit in Surrey, even though construction costs do not differ by that much). Higher demand is pushing price, not higher costs.
- Suppose a developer can complete a new project with total cost for land, construction, marketing, municipal fees and a typical allowance for profit all amounting to \$800 per square foot. But new units in the neighbourhood are selling for \$900. Does the developer sell at the prevailing market price or at the lower "cost plus" price?

Secondly, and this is the more important point, public benefits from rezoning (either density bonus or negotiated) are *always* linked to a change in use and/or a change in density that increases the physical capacity for development. This increased capacity for development (i.e. density) has value, because it is equivalent to buying land. Local governments in Metro Vancouver almost invariably seek public benefits (amenities, cash-in-lieu, or affordable housing) that cost less than the market land value of the extra density. In effect, private developers tapping extra density in this way could bring units to the market at less than market price if they took the cost-plus approach to setting sales price. They don't because prices are set in the marketplace by the demand for and supply of new units. Not-for-profit developers can bring housing to the market at lower rents if they obtain extra density at less than its market value.

By making rezonings more likely to be approved (by generating benefits that offset some of the impacts and make redevelopment more acceptable than it otherwise would be), by adding new physical capacity (i.e. density) for housing, and by making capacity available at less than the market price of land, density bonusing and the payment of CACs do not cause upward pressure on housing prices. The opposite is true: by helping add supply, these tools put downward pressure on housing price¹².

Charging CACs per se does not impact market pricing. However, the process of determining a CAC can have an effect on the market, in these ways:

- If negotiating a CAC adds to the length of the approvals process, then the pace of new development is slowed. Restricted supply in the face of strong demand adds upward pressure on price.
- If there is high degree of uncertainty about CAC amounts, it can impair the ability of developers to acquire land, as buyers and sellers might make different assumptions about the amount of the CAC.
- If there is inadequate transparency about how CACs are determined, the community may perceive that developers are getting too much for too little, resulting in opposition to projects.

Another important point about CACs is that local governments and citizens sometimes overestimate the value of additional density in their communities. The value of density is essentially the value of land, when expressed in dollars per square foot of developable area. Density is more valuable where land values are higher, so the ability to achieve public benefits from new density is much lower in (say) Maple Ridge than (say) West Vancouver.

The value of extra density can even vary widely from project to project within the same neighbourhood. This can happen because:

Some sites have views, better access, or other features that will command higher prices.

¹² A typical rejoinder to this is "then why aren't prices falling?". The answer is that downward pressure in a rising market can mean prices are still rising but not as fast as they would be in the absence of the new supply. The fact that prices are still rising does not mean that CACs are causing a problem; it could just mean that the total growth in supply is still not enough to actually move price down.



- Some sites are occupied by existing uses that support a high land value (e.g. a group of single detached houses or a shopping plaza). It may be that redevelopment under existing zoning does not support enough land value to make these viable development sites (i.e. the market values them as holding properties). In order to stimulate redevelopment, some additional density must be provided at no cost in order to support enough land value to outcompete the existing use. Only density above this redevelopment threshold could support the provision of a CAC.
- New density for rental housing is worth considerably less in this region than new density for strata
 residential. Municipalities cannot expect the same public benefit contributions (if any) from new rental
 that they would get from new strata density.
- The high cost and long time frame for many rezoning processes can reduce the value of the extra density that comes out at the end of the process.
- Higher construction costs, sustainability and green building requirements, rental replacement policies (for sites that have existing rental stock), off-site engineering requirements, and other costs can all reduce the value of extra density.

A final important point is the implications of not seeking CACs at rezoning.

The land market is extremely good (and fast) at capitalizing development opportunity into land values. If the market perceives that extra density is forthcoming without any requirement of CAC, then the value of this extra density becomes part of the value of development sites. One might wish that not charging a CAC would reduce development costs, leading to lower house prices. In fact, not charging a CAC enables developers in a competitive market to bid up the price of land for which density increase is expected. Housing prices would be unaffected, developer profits would be unaffected (except for those who bought land before the new density was a possibility), and land lift that could otherwise have been channeled to amenities or affordable housing will flow to land owners.

Improving Density Bonus and CAC Approaches

This section of the report now turns to how these zoning-based tools might be better used to achieve affordable housing benefits.

It is beyond the scope of this report to make detailed suggestions about every Metro Vancouver municipality's use of density bonusing or CACs. Based on long experience with working with many Councils, planning departments, and developers, though, some general suggestions for using density bonusing and rezoning as means to facilitate the construction of more rental housing are provided.

Density bonusing and rezoning are the primary means to create additional capacity for housing construction. There are two ways that extra density can lead to more capacity for housing:

- There is an obvious increase in the physical capacity for housing when density is increased.
- The addition of new density can cause properties that are not currently viable for redevelopment to become so¹³.

¹³ This point is important and worth explaining in detail. If a property is more valuable in its current use (e.g. older single detached housing or older commercial space) than as a redevelopment site, then the property is a holding property and its zoned capacity cannot be accessed by new development. To tip the balance in favour of redevelopment, it can be necessary to add density without expecting an amenity contribution. This can be illustrated with a simple example. Suppose a potential redevelopment site has an area of 25,000 square feet and is occupied by 5 houses on 5 single detached lots. Suppose these houses have a market value as single detached homes of \$1.5 million on average, so \$7.5 million in total value. Now suppose the land is



To aid in creating more affordable rental housing, extra density must be used in one of these ways:

- The extra density can be used for strata housing, to create new land value. Some of this new value can fund affordable housing provided by the developer (on site, off site, or cash-in-lieu).
- The extra density can be restricted to rental housing, in which case the new density has less (or no) value but it gives the developer the opportunity to construct rental housing without having to acquire land. The rents in such housing must be financially viable, meaning that some of the units will have to be at market rent, but it is not difficult to analyze the financial performance of the rental housing to find the mix of market and non-market rents that produces the maximum number of affordable units in a financially viable project. As shown in Exhibits 1 and 2, the private and non-profit sectors both have breakeven rents below which rental housing must be subsidized, even if land cost is zero. These breakeven rents are averages, so if the average required is say 80% of market value, this can be achieved by a mix of 50% of units at full market value and 50% of units at 60% of market value. Adding more density can increase the number of affordable units as long as the required breakeven average rent is achieved. Where market rents are not sufficient to make new development feasible, adding density does not help and having a mix of market and below-market units makes the numbers worse.

Using extra density in this way means that there will be less revenue for other kinds of amenities (e.g. child care, community facilities). There is a trade-off that local governments must make between using the value of new density to support affordable housing, other community amenities, or some combination.

The value of extra density is higher when the cost of rezoning is lower. If rezoning and negotiations are time-consuming, costly, and risky then the realized value of affordable housing or amenities will be reduced. Municipalities can achieve better outcomes if approvals processes are expeditious, if community plans clearly designate locations where redevelopment is desirable and supported, and if the demands on new projects (in terms of design features, community engagement, sustainability requirements, and other requirements) take into account the impact on project feasibility, timing, and cost. Private and non-profit developers in this region identify the cost and complexity of local government approvals processes as impediments that slow the pace of new supply and that result in some projects not proceeding.

There are several ways in which density bonusing and the rezoning process could be improved to support the creation of more rental units and to increase the pace at which they are developed:

1. Support the construction of more housing in general and more rental in particular. There are commentators who say that the solution to housing affordability is not increased supply and that more rezoning is not needed; they note that housing supply has been increasing and that prices are still going up anyway. They also note that non-local demand has helped to drive housing prices up and that non-local demand could be almost unlimited in a world with mobile capital and a rising middle class in large

currently zoned to allow multifamily development at FSR 2 and that multifamily development sites values are about \$125 per square foot of buildable area for strata residential in this location. This means a strata multifamily developer could pay at most about \$6,250,000 (25,000 square feet of site times FSR 2 times \$125) for this as a redevelopment site. This is less than the value as single detached homes, so this land is likely to remain in its current use. To shift this property to being a redevelopment site, additional density is needed. To reach the \$7.5 million supported by the existing single detached use, the site needs a density for strata of FSR 2.4 (\$7.5 million in target value divided by \$125 per square foot buildable means that the redevelopment needs 60,000 square feet of building area; 60,000 square feet of space divided by 25,000 square feet of site yields FSR 2.4). If the area is regarded as suitable for development to say FSR 2.7, which is achievable in wood frame in a 5 or 6 storey building, and if the aim is to have this site immediately financially viable for redevelopment, then a rezoning to FSR 2.7 would have to provide the first 0.4 FSR (from 2.0 to 2.4) of density for strata at no cost and the balance of 0.3 FSR (from 2.4 to 2.7) could be provided in exchange for an amenity contribution if the density is used for strata or little or no contribution if the density is required to be affordable rental.



nations. These observations are partly correct. Non-local investment has added momentum to house sales prices but does not significantly affect the rental market. In the rental market, the primary solution to reducing vacancy and reducing rent growth is the creation of more rental housing. There is existing zoned capacity to accommodate a large increase in units, but this capacity is generally priced based on strata potential or based on the value of existing land uses (e.g. single detached homes or older commercial space), so it is not available for rental housing. The most important policy refinement needed is to identify good locations for density increases to accommodate more housing, to use density bonusing or negotiated amenity contributions to make some of this new density available for rental housing, and to help increase the pace of new development.

- More advance planning and faster approvals to for new housing development. Assuming that the locations for more density and redevelopment are chosen based on rigorous and consultative planning processes, then density bonus or rezoning can occur with less debate and delay for each development proposal. Area-wide rezoning to allow density bonus requires advance planning to set important development parameters such as uses, density, heights, parking requirements, and others. It is not good practice to approve high density just because it could yield more benefits, if the density is not appropriate based on other criteria such as community acceptability, urban design, transportation demand, infrastructure, amenities, and services. However, it is also possible to aim too low for the density of new urban development locations. Municipalities that place a high priority on accommodating more affordable rental housing will have to accept that this requires a significant increase in the supply of new units. With the limited land base in Metro Vancouver, new supply requires the designation of lands for higher density, preferably in locations with existing or planned frequent transit service. Rezoning decisions are usually easier when they are occurring in the context of a community plan. A plan that sets out long range policy for uses, heights, and densities in an urban node provides the context for individual rezonings, so that each project does not have to start from scratch in coming up with an appropriate development concept. Investments in community plans will pay off in the form of faster approvals, more transparent decisions, and ultimately more public benefits
- 3. Clearly defined priorities for public benefits. Municipalities should go through a robust process to determine their priorities for affordable housing and other amenities before trying to implement density bonusing or amenity contribution policy. Delays or debates within city hall on a case-by-case about what benefits to seek will delay approvals processes, add to cost (which reduces the potential for benefits), and delay the delivery of new units to the market.
- 4. Clearly defined affordable housing priorities. "Affordable housing" is not a standardized term. Municipalities wanting to achieve affordable housing using zoning tools must decide on the relative importance of (for example) seniors housing, housing aimed at parts of the workforce, housing for very low income groups, or other segments of the community. Different forms of affordable housing will have different impacts on project economics. For example, requiring a portion of units to be market rental will typically yield more units than requiring units to be turnkeyed to a municipality or non-profit at no cost. These priorities should be settled by policy in advance, not worked out during the approvals process for individual projects.
- 5. Ensuring Project Viability. Every development project seeking additional density has a finite ability to provide public benefits in the form of affordable housing, amenities, contributions to infrastructure, public art, sustainability, or cash-in-lieu. Local governments need to understand the limits on providing public benefits in order to make sure that new development remains financially viable.



- 6. **Practical expectations for the delivery, ownership, and operation of rental units.** Municipalities should consider their options for the delivery of affordable housing. There are four considerations:
 - Units or Cash-In-Lieu. If the value of the agreed-on affordable housing contribution only supports a
 few units (because the total project and/or the total increase in density are small), it is important to
 consider whether it is better to have small groups of units scattered across multiple projects (which
 has operational challenges and costs) or to take cash to consolidate affordable units in stand-alone
 projects.
 - Off-site or On-site. There could be advantages in allowing developers to meet their obligations offsite, to take advantage of lower cost wood frame construction, lower value land, or consolidation into stand-alone projects.
 - Single or Mixed Tenure. Incorporating affordable rental units into a predominantly strata project can
 create operational challenges for the strata and the rental. There are advantages to keeping rental
 units in all-rental projects.
 - Ownership. In some projects it is expected that affordable units be turnkeyed to a non-profit or the municipality. There may be financial advantages to allowing developers to retain ownership of the units (although there may be offsetting operational disadvantages).

Part 4 of this report provides more detail on these considerations.

3.3 Zoning for Residential Rental Tenure

In 2018, the Province of BC amended the Local Government Act to allow municipalities to zone land for residential use based on tenure.

Section 481.1 of the Local Government Act states that zoning "...may limit the form of tenure to residential rental tenure within a zone or part of a zone" where multifamily residential use is permitted. This is not an entirely new ability. Municipalities can enter into housing agreements as part of a density bonus bylaw or a negotiated rezoning, to require that a project provides affordable housing units that are rental. Housing agreements can even specify a required rent structure, which the new "rental only" zoning cannot. The new legislation allows the zoning of a property for rental, but this zoning cannot on its own dictate rents, so projects zoned in this way are likely to be market rental.

Because this "rental only" legislation is new, it is in use (as of the date of this report) in only two locations in Metro Vancouver. Burnaby has amended its zoning bylaw in anticipation of applying "rental only" zoning, but it has not applied the new zoning districts to any sites and is working on a strategy for implementing the zoning. New Westminster has adopted a bylaw to rezone to "rental only" some older, strata titled buildings that have operated for decades as rental housing. There was strong opposition from some parts of the development community and strong support from rental housing advocates.

Because of the wording in the legislation ("within a zone or part of a zone"), "rental only" zoning could be introduced in several different ways:

An existing zoning district could be modified to "rental only" with no other changes. So, the allowable
uses, heights, density, and other regulations would stay the same but the tenure would be restricted to
rental (with no ability to regulate rents or target clients). This zoning could be applied to an existing rental
building (as in the recent New Westminster case) to protect existing stock from redevelopment, or it could
be applied to a potential development site so that the any new development is rental housing.



- A property could be rezoned to allow higher density than currently allowed, but with the condition that all
 the density be "rental only".
- A property could be rezoned to allow higher density than currently allowed, with some of the density (the
 original density for example) remaining unrestricted and some of the density (the new density for
 example) being restricted to rental.

These different approaches have very different implications for how the zoning would affect land values, the viability of redevelopment, and the operation of the rental housing.

Because "rental only" zoning has the potential to significantly change the economics of redevelopment, it is important to examine carefully its potential impacts.

To show the nature of the impacts, three case study locations have been used (Burnaby Metrotown, Surrey City Centre, and Maple Ridge). The case study locations are hypothetical potential multifamily development sites (i.e. not actual sites) that are typical of the respective communities. The analysis uses physical development concepts, costs, prices, and other variables appropriate to each location.

Each case study was modelled under a variety of different scenarios to show how a new development would perform under differing assumptions about the value of the site, the form of construction (wood frame versus concrete), and the density of redevelopment.

3.3.1 Burnaby Metrotown

This case study is summarized in Exhibit 4. The detailed financial analysis is in Appendix 5.

The case study proceeds in this sequence of steps:

- The first step is to estimate the property value supported by the typical existing uses on potential redevelopment sites. As shown in Exhibit 4, older low density commercial or older low density residential use might typically support a value in the range of \$11.6 to \$17.1 million to an investor intending to hold this property as an income-producing asset.
- 2. The second step is to estimate the amount a developer could pay for the site assuming it is zoned RM3s allowing FSR 1.5. This density is used because some properties in the area are designated for this density, which is achievable in wood frame. As shown in Exhibit 4, the developer can pay about \$11 million for this site. This means this property may not be a redevelopment candidate at this density, because the developer cannot match the value supported by the existing use (which explains why few projects proceed at this low redevelopment density).
- 3. If the site is zoned "rental only" at FSR 1.5, with market rents, and assuming no CAC, the most that can be paid for the site is \$9.5 to \$9.8 million. So, rezoning this to "rental only" without adding more density means this property will probably remain in its existing use. This is an acceptable outcome if the site is occupied by older rental housing and the intent is to retain the existing stock, but not acceptable if the intent is to have older, low density commercial or residential properties redevelop to create more units at a transit-served location.
- 4. If the site is rezoned to allow RM5s at FSR 5.3, the site (after CACs) would be worth nearly \$50 million. But if zoned for this density as "rental only", the value would be under \$10 million, again less than the value of the existing use.
- 5. The analysis also tests how much extra density would have to be added so that "rental only" zoning on the whole density would generate enough land value to surpass the value of the existing use. Assuming the project is wood frame, "rental only" works if the site is rezoned to somewhere in the range of FSR 1.8 to 2.4. This means that "rental only" zoning combined with an increase in density could work, if the aim is to generate enough land value to compete this site away from its existing use. But if the goal is to achieve the higher density that is typical in Metrotown and that requires concrete construction, the density of "rental only" housing would have to be much higher, at FSR 7.7 to 11.0 to match the property value supported by the existing use. If the site is assumed to be developable as RM5s in strata concrete at FSR 5.3, it is not physically feasible to put enough density on the site to allow "rental only" to match the land value supported by strata development.

This analysis for Metrotown shows that:

• Applying "rental only" zoning to existing rental residential properties or existing low density commercial, without adding any new density, risks making these holding properties rather than rental development sites at the higher densities anticipated in the Metrotown plan. If the intent is to maintain the existing use (e.g. retain the existing older rental stock), then this may be a desirable outcome, but if the intent is to fully utilize Metrotown's potential for high density development with rapid transit access then "rental only" zoning would impair that. The problem is that "rental only" zoning can eliminate the competition from strata land values, but in most cases it will not generate enough land value to outcompete the continued existence of the current use.



 Applying "rental only" zoning and adding density (with all density having to be rental) can work for some sites that are preferred to redevelop as low density wood frame, provided that density is allowed to increase to the upper limit of what is physically achievable in wood frame construction. For concrete construction, the "rental only" density increases must be very large to make the site valuable enough to outcompete the existing use.

Exhibit 4: Summary of Metrotown Case Study

Site Size	55,000 sq.ft.	
Existing use	Older Rental Residential	Older Commercial
	FSR 0.9	FSR 0.4
Property value of existing use	\$17.1 million ¹	\$11.6 million ²
Land value if rezoned to RM3s, FSR 1.5, strata	\$11.0 to \$11.2 million ³	
Land value if rezoned to rental only, FSR 1.5, wood, no	\$9.6 to \$9.8 million4	
CAC		
Land value if rezoned to RM5s, FSR 5.3, Strata	\$49 million ⁵	
Land value if rezoned to rental only, FSR 5.3, concrete,	\$9.4 to \$9.6 million ⁶	
no CAC		
Estimated total rental density needed to support land	1.8 to 2.4 FSR ⁷	
value equal to existing use, no CAC, wood		
Total rental density needed to support land value equal	7.7 to 11.0 FSR ⁸	
to existing use, no CAC, concrete		

Exhibit 4 Notes:

- 1. See Appendix 5, Exhibit 2.
- 2. See Appendix 5, Exhibit 1.
- 3. See Appendix 5, Exhibit 3. The range is due to tenant compensation, if existing use is rental residential.
- 4. See Appendix 5, Exhibit 4. The range is due to tenant compensation, if existing use is rental residential.
- 5. See Appendix 5, Exhibit 5. This figure is rounded.
- 6. See Appendix 5, Exhibit 6. The range is due to tenant compensation, if existing use is rental residential.
- The lower density is needed if the site is occupied by commercial and the higher density is needed if the site is occupied by rental residential.
- 8. See note 7.

3.3.2 Surrey City Centre

This case study is summarized in Exhibit 5. The detailed analysis is in Appendix 6.

Potential multifamily residential development sites in this area are typically occupied by older rental housing at low density, older single detached homes, or older low density commercial use. These different uses indicate a range of \$5.0 million to \$8.5 million for a site of 45,000 square feet, depending on its current use.

If rezoned to allow low-rise, wood frame, mixed use strata development at FSR 2.5, the supportable land value is as low as \$2.7 million if the site is occupied by older rental that must (pursuant to City policy) be replaced and as high as \$8.3 million if the site is occupied by commercial or single detached use. So, whether or not this is a viable development site at low density depends on existing use.

Rezoning the site to "rental only" is financially viable in wood frame at FSR 2.5, but it only supports a land value of up to \$4.2 million (and less if rental unit replacement is required), which is less than the value supported by the existing uses of the land. Such rezoning would remove these sites as redevelopment candidates.

If rezoned to allow high density residential (strata), the site is worth \$7.4 million (if it must absorb the rental replacement cost) to \$17 million (if there is no existing rental housing). Rental replacement policy here has the effect of reducing the number of potential redevelopment sites (which may be the objective, to retain existing older stock).

Rezoning to "rental only" at a density that requires concrete construction is not financially viable and increasing density beyond current zoning/policy won't help because the cost of concrete construction is too high to be justified by market rents even with no land value

Exhibit 5: Summary of Surrey City Centre Case Study

Site Size	45,000 sq.ft.				
Existing use	Older Rental	Older	Single Detached		
	Residential	Commercial	Assembly		
	FSR 0.8	FSR 0.4			
Property value of existing use	\$8.0 million ¹	\$8.5 million ²	\$5.0 million ³		
Land value if rezoned to FSR 2.5, strata	\$2.7 million4 to \$8.3	3 million ⁵			
Land value if rezoned to rental only, FSR 2.5	-\$2.0 million6 to \$4.	2 million ⁷			
Land value if rezoned to FSR 7.5, strata	\$7.4 million8 to \$17.	.0 million ⁹			
Land value if rezoned to rental only, FSR 7.5	Negative (not financially viable) ¹⁰				
Additional rental density needed to support	Not viable even with extra density				
land value equal to existing use					

Exhibit 5 Notes:

- 1. See Appendix 6, Exhibit 2.
- 2. See Appendix 6, Exhibit 1.
- 3. See Appendix 6, Exhibit 3.
- 4. See Appendix 6, Exhibit 6. The large range is due to the City's rental replacement policy, if existing use is rental residential.
- 5. See Appendix 6, Exhibit 4.
- 6. See Appendix 6, Exhibit 7.
- 7. See Appendix 6, Exhibit 5. The large range is due to the City's rental replacement policy, if existing use is rental residential.
- 8. See Appendix 6, Exhibit 10.
- 9. See Appendix 6, Exhibit 8. The large range is due to the City's rental replacement policy, if existing use is rental residential.
- 10. See Appendix 6, Exhibits 9 and 11.



3.3.3 Maple Ridge

This case study is summarized in Exhibit 6. The detailed analysis is in Appendix 7.

This case study uses a smaller assumed site size than the others, because development sites (and projects) tend to be smaller in this community.

Existing uses in the town centre area tend to be older rental housing, older single detached houses, or older commercial buildings. These support land values (for the 15,000 square foot site) of around \$1.4 million to \$1.7 million.

Redevelopment to mixed use strata under existing zoning at FSR 2.3 is viable in wood frame construction and supports a land value of just over \$2.0 million, so redevelopment is likely. However, redevelopment to higher density strata in concrete is not viable.

Rezoning to "rental only" in wood frame (FSR 2.3) is financially viable, except it does not support enough land value to out-bid existing uses, so redevelopment candidates would shift to holding property in their existing use. Rezoning to "rental only" in concrete is not viable even if land is free.

It is not feasible to add enough density to "rental only" to generate enough land value to compete sites away from existing use; in wood frame the required density would not be physically possible and concrete is not viable at any density.

Exhibit 6: Summary for Maple Ridge Case Study

Site Size	15,000 sq.ft.					
Existing use	Older Rental	Older	Single Detached			
	Residential	Commercial	Assembly			
	FSR 0.9	FSR 0.4				
Property value of existing use	\$1.4 million ¹	\$1.7 million ²	\$1.4 million ³			
Land value if developed as FSR 2.3, strata	\$2.2 million ⁴	-				
Land value if rezoned to rental only, FSR 2.3,	\$0.4 million ⁵					
no CAC						
Land value if rezoned to FSR 4.0, strata	Negative (not finance	cially viable)6				
Land value if rezoned to rental only, FSR 4.0	Negative (not finance	cially viable)				
Additional rental density needed to support	Not viable not even with extra density					
land value equal to existing use						

Exhibit 6 Notes:

- 1. See Appendix 7, Exhibit 2.
- 2. See Appendix 7, Exhibit 1.
- 3. See Appendix 7, Exhibit 3.
- 4. See Appendix 7, Exhibit 4.
- 5. See Appendix 7, Exhibit 5.
- 6. See Appendix 7, Exhibit 6.

3.3.4 Implications for Rental Tenure Zoning

Rental tenure zoning can be effective at preventing redevelopment of existing rental housing properties, because it effectively downzones (and devalues) these properties by eliminating the option of strata development.



In most cases, "rental only" zoning will not contribute to the creation of new rental housing. In urban, developed areas this type of zoning without density increases would probably just shift properties from being redevelopment candidates to being holding properties.

Rental tenure zoning might be effective in these cases:

- Vacant land that would otherwise have been strata (although this is a downzoning and would likely
 encounter significant opposition).
- Lands transitioning from institutional to residential, to ensure rental use (although this can be achieved via housing agreement).

3.4 Inclusionary Affordable Housing Requirements

Inclusionary housing in the broadest sense means requiring that new residential projects must include a specified number of affordable units, with a clear definition of affordability.

Inclusionary housing zones could be thought of in two categories:

- Zones that require the inclusion of a mix of unit types. Market rental residential projects tend to include mainly smaller units (studio, 1 BR, 2BR) because these generate the most income. However, small units do not meet the needs of households with children, so some types of zoning can require that a portion of new units be family oriented (larger 2BR and 3BR).
- Zones that require the inclusion of a proportion of units that are affordable for households at defined income targets. This is the kind of zoning that is most often referred to as inclusionary zoning. This type of zoning has existed for decades in some parts of the United States, where it was used to countervail zoning that was designed to exclude housing types and densities that would be affordable. In other places, inclusionary zoning is a new tool intended to require the incorporation of affordable units in new projects.

While municipalities in BC have recently been given the power to zone for "rental only" tenure, and can use this power to ensure that all or a portion of new development is rental housing (subject of course to the project being financially viable and actually proceeding), they do not have the explicit authority to zone land (or units) to control rent. If "rental only" zoning is applied to an existing or new rental building, in the absence of some other means of exerting control the building could be rented at market rents, which are too high to be affordable in much of the region.

At present, the only way for municipalities in BC to require rental units at a specified rent level is pursuant to a housing agreement negotiated with a developer as part of a rezoning. Municipalities can specify in a density bonus bylaw or in a site-specific negotiated package of public benefits that some units must be available at certain rents. For a private developer to be willing to provide such units, the new density available from the density bonus or from rezoning must be sufficient to offset the cost of providing the included affordable rental units.

There are jurisdictions in which inclusionary housing can be mandatory without being accompanied by additional density. For example, in 2018 legislation came into effect in Ontario that allows municipalities to require projects of 10 or more units to include affordable units. However, the legislation recognizes the potential for such zoning to have a negative impact on development economics so it requires that local governments evaluate potential impacts on the housing market and the viability of projects and consider



possible offsetting incentives. The legislation also prevents municipalities from seeking amenity contributions from additional density used for inclusionary housing.

Before evaluating the strengths and weaknesses of inclusionary zoning, it is important to understand that, in the absence of any offsetting incentives, it has a negative impact on the financial performance of a development project. While the financial impact may be viewed as being offset by social benefits from affordable housing supply, the benefits and costs accrue to different parties. A project that is not viable in financial terms (i.e. costs exceed revenues) is not rendered financially viable just because it also generates social or environmental benefits.

The extent of the financial impact depends on the income target (and maximum rent) that is applied to the affordable units.

The graphs shown earlier in Exhibits 1 and 2 show the break-even rents that must be achieved by a private developer creating new rental units under various assumptions. The graphs show that, even with land at low or no cost, the breakeven rents are around \$2,000 per month and up, which means the incomes are \$80,000 and up (higher than the regional median household income). Units that must be rented for less than this are below break-even (unless there is some offset), which has the following possible impacts on the project:

- Total net income from the project is reduced, so it does not generate enough profit to be viable and the developer does not proceed.
- The amount that the developer can afford to pay for land is reduced. Inclusionary zoning without something added to offset the impact can make it even harder for a rental project to afford to complete land away from its existing use.

This is why Seattle and Los Angeles added new density when they introduced inclusionary zoning. They recognized that for projects to be viable there had to be an offset to the negative impact of enforced lower rent. To address this, they estimated the amount of additional density that would offset the income loss of the affordable units.

In general terms, requiring some units in private sector developments to be rented at below market rent will only work in Metro Vancouver if the requirement is bundled with density increases. This already happens in municipalities with projects that are undergoing rezoning and that exchange density for affordable housing. For non-profits inclusionary requirements probably don't change project economics, because they would have included the affordable units anyway, to the best of their ability based on their financial resources.

Inclusionary zoning that does not increase density would not be successful and would likely lead to reduced rental development activity.



3.5 Evaluation of the Tools and Applicability in Metro Vancouver

The approaches to addressing land availability have different degrees of applicability in different parts of Metro Vancouver, depending on market conditions.

The table below shows which tools are likely to be most successful and which are likely to be least successful.

Approach	Effectiveness	Making it Work
Deployment of existing lands owned by local government or non-profits	Where eliminating land cost and reducing construction cost (e.g. reduced parking) are enough to make new rental construction viable at target rents, this approach is highly effective, provided the land owner is willing/able to forego the value of the land or be patient with regard to return on land value.	Experienced local governments and non-profits know how to do this. There are many entities that own land but that are not yet in the housing sector. They need assistance to decide whether and how to use their lands for multiple objectives. More partnerships between local governments, non-profits, developers, and BC Housing can take advantage of these opportunities.
Acquiring more land to use for affordable housing	As above, with the added constraint that buying land requires new cash or borrowing so it is limited by the resources of government and non-profits. There are creative possibilities that reduce the need for cash or borrowing or that can recover the investment after infrastructure or zoning changes: Buying strategic parcels of land before major area planning/rezoning processes Buying extra land when preparing for transit construction	 The key requirements are: The ability to strategically acquire land before events that trigger land value gains. The financial resources to buy land early. TransLink and local governments are in the best position to be more active in land acquisition.
"Rental Only" zoning without concurrent density increase	If applied to existing older rental stock, this will likely postpone redevelopment, so if the intent is to prevent demolition this will be effective. If the intent is to facilitate redevelopment to create new rental stock this will generally be ineffective. While "rental only" zoning eliminates strata development as a competing use, properties still have value in their existing use and in most cases rental development cannot compete with this land value. It is also worth noting that "rental only" zoning does not allow any control on rents, so any private	See below.

Approach	Effectiveness	Making it Work
	sector rental development that does proceed will likely be at market rents. "Rental only" zoning without density increase might be effective in these cases: • Vacant land (although this would be regarded as a downzoning) • Sites with very low value existing use • Sites transitioning to residential from a non-residential zone (e.g. institutional), although the rental tenure in this case could be secured by other means.	
"Rental Only" zoning with concurrent density increase	This has not been implemented in Metro Vancouver, but it is possible under the legislation. There are two ways this could work: New "rental only" density is layered onto existing density. In this case, the underlying density maintains land value and the new density can be allocated to rental. An entire site is zoned "rental only", but total density is increased as needed to generate enough land value to compete the site away from its existing use. This will work where rental development supports some land value but will either not work or require extremely high density where land values are low.	The challenge will be finding locations where extra density is acceptable and financially viable. In much of the region, the best prospects will be in locations where extra density can be achieved in wood frame construction, because of its lower cost. In practical terms, this means a focus on frequent transit corridors where 4, 5, and 6 storey development can achieve densities in the FSR 2 to 3 range. Adding density in concrete construction will work where rents are relatively high, but where target rents are lower concrete is not viable. Refer to Exhibits 1 and 2.
Inclusionary zoning without concurrent density increase	This will not work in all-rental projects without major financial assistance. Rental construction at market rents is challenging, so reducing total rental income just makes it harder. Mandatory inclusion of affordable rental in strata projects could be viable in some locations, but this will reduce the amount developers can pay for land and therefore risks reducing the pace of development. Note that in BC zoning for mandatory inclusionary housing is not allowed ("rental only" zoning can require rental but cannot dictate rents). So in	See below.

Approach	Effectiveness	Making it Work
	effect this tool will only apply when	
	rezoning is happening. See below.	
	There are also challenges with	
	integrating rental units into strata	
	projects.	
Inclusionary zoning	This can be effective and is in	
with concurrent density	essence the primary way that	
increase	affordable rental housing has been	
	achieved by local governments in	
	Metro. See below.	
Using rezoning tools to	This has been the most prevalent	This is already working and there are
obtain affordable	and successful means to obtain	many examples to show how extra
housing	affordable housing in Metro	density creates the financial
	Vancouver. This approach harnesses	wherewithal to provide affordable
	the value of extra density, by making	rental housing.
	this density available at no cost for	This approach could be much more
	rental housing, by making this	extensively and effectively used if local
	density available at market value and	governments invest more in
	applying some of the value to	community planning and rezoning to
	affordable housing, or by requiring	support more density in good
	developments to include affordable	locations.
	housing in exchange for more	Advance planning, reduced approvals
	density.	risk, and financially sound and
	This tool is applicable in every	transparent CAC/affordable housing
	housing submarket in the region	policy can lead to more housing and
	where rezoning and densification are	faster delivery.
	appropriate.	There is a trade-off between using
	This approach is typically combined	density to achieve affordable housing
	with the use of a housing agreement	versus other important community
	which can control the tenure of units	benefits such as child care or
	but can also control rents and define	amenities. This trade-off should be
	target renters (e.g. household in	addressed in clear public benefits
	certain income brackets).	policy/priority setting.
	Consequently, this approach yields	
	more affordable housing benefits	
	than "rental only" zoning on its own.	

Part 4: Improving Unit Delivery

Next, the report explores the potential to improve the actual delivery of units by private sector developers and by the public and non-profit sector. This section addresses these questions:

- Should private developer obligations for rental housing be met on site or could they be met via cash-inlieu or by delivering the units in other locations?
- Should affordable units developed by the private sector, pursuant to zoning requirements, be owned by government or non-profits? Are there advantages or disadvantages to ownership by the private sector?
- What are the advantages and disadvantages of combining affordable rental units with market rental units or strata units in the same project?
- Is there value in considering a more coordinated or centralized approach to public and non-profit sector housing delivery, instead of the decentralized system currently in place?

4.1 Should private developer obligations for rental housing be met on site or could they be met via cash-in-lieu or by delivering the units in other locations?

There are two broad sets of considerations that could be applied to answer this question.

One of these could be called social. There are important questions about the extent to which market, affordable, and non-market housing should be intermingled in a community (or even in a project). This is a highly charged topic and terms like "poor-doors" and "ghettoes" are used to oppose the segregation of low-cost housing from market housing. All citizens deserve respect regardless of their income and housing, so complete isolation of lower cost housing is neither socially desirable nor politically acceptable. On the other hand, market housing is divided into geographic submarkets so it could be argued that not every site must include a full spectrum of housing types.

There are some financial and operational considerations in the location of affordable units:

- The ability to acquire land for affordable housing is higher in areas where land cost is lower.
- Wood frame construction costs less than concrete, so the delivery of affordable units is easier in areas where the target density does not require concrete construction.
- Many new market projects are not large enough to provide a significant number of affordable units on site. If (hypothetically) a 50 unit project is expected to deliver 10% of the units as affordable rental, this creates a tiny pocket of 5 units that have different management and operations requirements than the rest (especially if the rest of the project is strata). Non-profit and private developers alike express a preference for physical separation of unit types because this makes housing management easier and provides independence regarding operations, regulations, repairs, and major capital investment decisions.

For these reasons, jurisdictions such as Seattle and Los Angeles that have mandatory affordable housing requirements (in conjunction with density increases) allow some flexibility in how the requirement is satisfied. The affordable units can be delivered on site, delivered in a stand-alone project in another good location, or



delivered via cash-in-lieu (to a housing authority which pools these contributions and builds publicly owned housing).

If an affordable housing requirement can be delivered off site (in a good location with bus service, for example) at lower cost than in a concrete project, then more housing can be delivered for a given cost. Suppose a market developer achieves a rezoning that carries with it a negotiated obligation to deliver \$2.0 million in affordable housing benefits. If concrete units cost \$550 per square foot, this translates to around 3,600 square feet (say 6 units at 600 square feet each). If wood frame costs \$425, the same contributions translates into about 4,700 square feet (around 8 units). This is only a two unit difference but applied to many projects it adds up.

Local governments looking to require an affordable housing contribution from market development projects in high density locations should consider the option of allowing developers to meet their obligations in flexible ways (in other locations or cash-in-lieu) that produce better outcomes, in terms of more units and/or better configurations for operating the affordable housing.

4.2 Should affordable units developed by the private sector, pursuant to rezoning requirements, be owned by government or non-profits? Are there advantages or disadvantages to ownership by the private sector?

The non-profit sector generally perceives that it is better for affordable units to be owned or at least operated by non-profits. The reasons for this include:

- Control over tenant selection.
- Control over maintenance standards.
- Commitment to maximizing affordability beyond the "letter of the law" in housing agreements or covenants, with possibly less cost for monitoring and enforcement than might be needed with private sector owners/managers.
- The ability to build up a portfolio of owned assets, which permits cross-financing, cross subsidization, and reduced reliance on grants or subsidies.

These benefits come at a cost, though. There is value in looking at the financial outcomes of different approaches.

Suppose a developer has an obligation to deliver affordable units as part of a negotiated rezoning package. In the first scenario, assume that the local government requires that the units be turnkeyed at no cost to the local government or to a non-profit. Using an example of a two bedroom, 800 square foot unit at \$550 per square foot (hard and soft construction cost, no profit, no land), this represents a cost to the developer of \$440,000 for each unit with no offsetting value from the unit.

Now, in a second scenario assume that the developer can retain ownership (and therefore the rent income) of the unit, but with restrictions on rent.

Exhibit 7 shows the financial implications of this approach compared to the turnkey approach.



Exhibit 7: Turnkey Versus Developer Ownership

		Net					Number
		operating					of units
		income					that can
		after		Implied		Net cost to	be
Household		expenses		value of		developer	provided
income	Monthly	of \$5,500		the rental	Construction	per unit	for
target	rent	per year	Cap rate	unit	cost		\$440,000
\$60,000	\$1,500	\$12,500	4%	\$312,500	\$440,000	\$127,500	3.5
\$35,000	\$875	\$5,000	4%	\$125,000	\$440,000	\$315,000	1.4

As shown, rather than deliver one unit on a turnkey basis, this developer would be willing to deliver 1.4 units if the rent is geared to a \$35,000 income and 3.5 units if the rent is geared to a \$60,000 income.

This alternative approach requires that there are mechanisms in place to ensure that the income/rent requirements are adhered to, but it shows the potential to deliver more units if the private sector can retain ownership.

Another way to achieve a similar outcome is to have the units sold by the developer to the local government or non-profit at less than construction cost but not for free. In Exhibit 7, if the units are purchased at \$312,500 or \$125,000, then the same multiplier effects can be achieved. This of course means that the local government or non-profit must have access to equity or borrowing (which can be repaid using the rental income) to enable the purchase.

4.3 What are the advantages and disadvantages of combining affordable rental units with market rental units or strata units in the same project?

While there are social planning arguments in favour of mixing incomes and tenures, it is interesting that there is almost universal preference among private developers and non-profit developers for creating stand-alone projects. This section examines two combinations: affordable rental/market rental and affordable rental/market strata.

Affordable Rental/Market Rental

There are two different ways this combination can be structured:

- One owner with different categories of units.
- Separate owners (via volumetric or air parcel subdivision) of the affordable and market rental components.

Single ownership is a relatively easy model because one party is responsible for property management, tenanting, rent setting, rent collection, and so on. Non-profits take the view that they are skilled at this and that they have "mission alignment" in the sense that their priority is maximizing affordability. They express concern that developers will seek ways to circumvent the rent controls; not surprisingly, some developers take umbrage at this view and believe they are just as capable as the non-markets at managing rents. Interestingly, in the Seattle and Los Angeles case studies, the private sector develops almost all the affordable



units within projects and these units remain owned and operated by the private sector. The owners are bound by covenant to maintain the agreed-on rent structure.

Regardless of who owns/operates the building, the private and non-profit sectors agree that single ownership is better than mixed.

Separate ownership of the affordable and market rental components in the same building, by way of a volumetric subdivision, means that each party is bound forever to a partner that will have different resources and priorities. This can create challenges for decisions about maintenance, major capital repairs, or (eventually) redevelopment. Private and non-profit developers have the same discomfort with this model.

Affordable Rental and Strata

This model can be achieved in two different ways:

- The project could involve volumetric subdivision (into one parcel that is the strata project and one that is
 the rental project). This has the same challenges outlined above and the added difficulty that it could
 impair the marketability of the strata units.
- Alternatively, the affordable rental units could be strata units (part of the strata corporation) that are owned
 by an entity that must rent them out in accordance with an agreed rent structure. This entity could be the
 original developer, an investor, or a non-profit entity.

In either case, there are practical challenges with this approach:

- It is possible that the different owners have different expectations and priorities about standards of maintenance.
- Depending on the nature of the common areas in the project, there could be higher than typical operating
 costs for amenities that are hard for the rental component to absorb.
- Depending on the target market for the affordable units, there could be concerns (rightly or not) on the part of strata owners about the profile of the rental occupants.
- If the rate of turnover is higher in the rental portion, there will be conflicts about wear-and-tear that could affect strata fees.

For these reasons, the private sector and the non-profit sector generally express a preference for standalone, single ownership buildings that do not mix strata and rental tenures. They can be on the same site, but in distinct buildings.

4.4 Is there value in considering a more coordinated or centralized approach to public and non-profit sector housing delivery, instead of the decentralized system currently in place?

This question is akin to asking whether there would be efficiencies in consolidating Metro Vancouver's two dozen municipalities into a single local government. One can be pilloried for even asking, and the answer (whether yes or no) is sure to bring even harsher punishment from some quarters.

The current landscape can be summarized this way:



- Every local government in the region has a different approach to addressing housing affordability. Even
 municipalities that are using the same basic tools have different requirements and approvals processes.
- There is a wide array of non-profit entities involved in delivering affordable housing. These include faithbased groups, service clubs, charities, and development companies structured on a not-for-profit basis.
- Different levels of government are involved in developing, owning, and operating affordable housing. The
 Federal Government, Provincial Government, Metro Vancouver, and some local governments all have
 inventories of units.
- Funding and technical assistance are available from senior governments, local governments, consultants, and some financial institutions that support social-purpose housing development.

Is this complex? Very. Are there inefficiencies? Obviously. Are there extra costs? Yes. Is there any likelihood that this will be changed in a material way in the near future? Not likely, as all these entities have different priorities, different resources, established mandates, established programs, and a degree of autonomy they are unlikely to relinquish.

The useful question to ask is not whether the whole current system of delivering affordable housing should change, but rather are there practical ways to improve the current situation through greater coordination among the various entities involved in affordable housing delivery and through making resources available to enable existing entities to do more.

Here are a few suggestions:

- Local governments could explore ways to make approvals processes somewhat more consistent so that
 private developers and non-profits can more easily understand the rules. Considering that all Metro
 Vancouver municipalities (except the City of Vancouver) operate under the same legislative framework
 of the Local Government Act and the Community Charter, it is surprising how different their development
 approvals processes and requirements are.
- In a similar vein, it would be helpful to agree on some terms across the region with regard to housing
 affordability. Private and non-profit developers must sort through the nuances of "affordable", "social",
 "non-market", "below market", "market", "HILS", and other terms to figure out what kinds of affordable
 rental are going to be supported in redevelopment projects.
- There is value in a one-stop resource centre for non-profits, with a mandate for outreach to non-profits that have land but are not yet involved in housing and with a budget to help non-profits in the challenging early days of a project idea. The Housing Hub operated by BC Housing is a good resource for technical assistance and funding. However, some of the target non-profit entities are not likely to seek assistance as they do not see themselves as housing providers. There is a need for an aggressive outreach to bring more land into affordable housing development, along with technical and financial assistance to help create new project opportunities on non-traditional sites.
- There would be value in earlier, stronger, and lasting coordination between local governments and TransLink regarding the timing and alignment of major transit investment. The uncertainty of whether/when the Broadway extension will go all the way to UBC means that opportunities for strategic public land acquisition have been reduced by early private land assembly. The proposed revision to the alignment of transit in Surrey shows that early strategic land acquisition can be risky without continued commitment to transit alignment and design decisions once they are made.



- There would be value in greater coordination between TransLink and other entities that own any of the land used for rapid transit guideways, to make surplus lands available for development.
- As more affordable units are developed, by a wider variety of private and non-profit entities, it will be
 important to maintain a regional inventory of these units so that housing planners understand the total
 number, type, and affordability of the stock. This will be useful in evaluating progress for total unit
 creation.

Part 5: Integrated Planning for Transit and Affordable Housing

Metro Vancouver, local governments, and TransLink already invest considerable effort in coordinating land use and transportation planning with generally good result. The distribution of areas designated for high density residential and commercial development closely matches the intensity of transit service, because most of the development nodes are either older concentrations (such as New Westminster or Lower Lonsdale) that determined the transit alignment or new nodes that were planned on existing or proposed rapid transit lines (such as Cambie Corridor, Metrotown, Surrey City Centre, Coquitlam Town Centre, and Richmond Town Centre).

Plans for the next phases of rapid transit extension are underway and there are concurrent efforts to plan for new development, although changes to the transit plans for Surrey and the ongoing discussions about whether or how to extend the Broadway extension to UBC are adding complexity and creating uncertainty.

However, integration with land use planning is not the same as planning for affordable housing that is served by transit. Based on the analysis in this report, there are ways in which the development/transit planning process could be improved in order to help create more affordable housing supply.

Looking Beyond Rapid Transit Stations

With few exceptions, rapid transit stations that are the focus of higher density redevelopment are planned for high density that requires concrete construction. This has the advantage of accommodating large amounts of residential and commercial floor space within easy walking distance of the station, but it has the disadvantage of high construction cost.

Wood frame is a lower cost form of construction and areas designated for low to medium density tend to have lower land values. For this reason, it may be possible to deliver more affordable transit-oriented units in locations that are not at rapid transit stations. There are two kinds of locations where this is possible:

- In the shoulder areas of rapid transit station planning areas. As a transition from a very high density core area to a lower density context, areas can be designated for medium density multifamily that uses wood frame construction. These may be in the 5 to 10 minute walk radius rather than the 0 to 5 minute radius. One implication of this approach is that requirements for affordable housing that are created via rezoning in the higher density core could be satisfied by creating affordable units in the surrounding area.
- Along frequent transit corridors with good bus service. There are many corridors in the region along arterials with good bus service that will not become rapid transit corridors. Some of these corridors are designated for high density that needs concrete construction, but there are many that are designated for densities that are viable in wood frame construction. These densities could be increased if heights are increased from the typical 4 storeys to 5 or 6 storeys. These are locations where affordable housing obligations created by rezonings in very high density nodes could be satisfied at lower cost (meaning more units for a given investment).

Strategic Land Acquisition and Development Planning

Seattle and Los Angeles are examples of metropolitan transit authorities that have taken a stronger role in affordable housing by revising their approach to land acquisition and disposition:



- Rather than only buying the minimum needed for transit construction, they are buying enough to ensure that post construction there will be development opportunities.
- They are locating transit stations with an eye to maximizing development potential, in addition to meeting transit requirements.
- They are being creative about using air parcels above transit infrastructure to accommodate urban development.
- They are acquiring land as early as possible to benefit from land lift.
- They are making some of the surplus land available at less than market value in order to facilitate affordable housing.

There is potential in Metro Vancouver to adopt these strategies, both for new land acquisition and transit construction and for the creative use of existing rapid transit rights of way. The keys to this kind of approach are:

- Giving TransLink a broadened mandate to allow the strategic land acquisition to support urban development, including affordable housing. Most future land acquisition opportunities will be at rapid transit stations, which are likely to be planned for high density requiring concrete construction. The cost will make it difficult to provide only affordable housing, but there will be opportunities to create a mix of housing with strata or market rental helping support affordable rental. The aim would be to achieve multiple objectives: create opportunities to increase the total housing supply at stations, generate some revenue that helps pay for transit, and facilitate some affordable housing.
- Giving TransLink a mandate to consider both revenue generation and support for affordable housing in the disposition and development of its surplus lands.
- Designing transit infrastructure to support adjacent and vertical development. Again, this necessarily
 involves concrete construction but this does not preclude the potential for some affordable housing.
- Coordinating local government land use planning and station design to create development opportunities.
 The Canada Line station at Broadway and Cambie is an excellent example of not taking advantage of
 the ability to integrate urban development and station construction, but fortunately it is an excellent
 opportunity for another try when the Broadway extension of the Millennium Line is built and creates a
 major transfer point at this location.
- Coordination between landowners where TransLink and other entities have an interest in land occupied by transit infrastructure, such as BC Hydro in the case of the Expo Line.

Early Planning for Affordable Housing

Integrated planning for transit and land use in transit-oriented areas should plan for affordable housing from the beginning. Because affordable rental housing cannot support land value, it is essential that plans for residential densification define early goals for the mix of market and affordable housing and early strategies for how affordable housing can be achieved. This requires signals not just about how much density is planned, but also the conditions under which additional density will be available, the anticipated mix of market rental, affordable rental, and strata housing, and the implementation plan for the affordable rental component. If these goals are defined early, the land market and the private sector development industry are more able to respond appropriately and the capacity for affordable rental housing can be created. This integrated planning



should include early identification of lands owned by the public sector or by non-profits that could be good sites for additional density for affordable rental housing in transit-oriented locations.

Part 6: Conclusions and Recommendations

- 1. While efforts to maintain or replace existing affordable rental housing stock are an important element of a comprehensive regional affordable rental housing strategy, it is also essential to increase the total supply of rental units to meet future needs for rental accommodation targeted across the entire spectrum of very low, low, and moderate income households. Without increased supply, there will not be enough rental housing to meet projected household growth, there will continue to be very low vacancy, and there will continue to be upward pressure on rent.
- 2. For the foreseeable future, non-profit organizations and private developers will continue to provide a large share of total new rental housing construction. There is not enough government funding being put into rental construction to meet the entire need for new market and affordable rental units. For private and non-profits to be able to add new rental supply, they must have access to development lands (or density) that is available at financially viable (i.e. low or no) cost.
- 3. Because of the high cost of land in this region, creative approaches are needed to make better use of existing lands that are controlled by the public or non-profit sectors. Possible approaches include:
 - a. Tap lands that are controlled by non-profit entities not traditionally involved in housing, such as service clubs and religious organizations. These entities may have to consider multiple objectives for their lands (i.e. their core mandate plus housing) and in many cases they will need financial and technical assistance to take this step. There is great value in providing a one-stop source of assistance such as the Housing Hub operated by BC Housing, but for this resource to bring new lands into the housing market it will be necessary to reach out aggressively to land-owning entities (rather than wait for them to seek help), to provide technical assistance and to provide funding in the early idea stage of possible projects.
 - b. Use locally-owned public sector lands for multiple objectives, when housing is compatible. Schools with surplus land area, libraries, community centres, and recreation centres are examples of cases in which during redevelopment or re-planning an affordable housing component can complement the primary use.
 - c. Find development opportunities on surplus lands associated with existing transit infrastructure. There are locations at transit stations and along transit guideways that have the physical capacity to accommodate development, although these will mostly require cooperation between several parties (TransLink, local government, and other owners such as BC Hydro in the case of the Expo Line as it owns much of the right of way).

These approaches mean that the land owners must be willing to accept low or long term return on their land or to obtain less value than they would if these lands were made available for strata residential (where this would have been an option).

- 4. In the absence of a major increase in funding for public sector land acquisition, there is a need to explore ways to acquire more land (or capacity) for affordable housing without having to pay market value for development sites. Opportunities include:
 - a. Strategic land acquisition by local governments and by TransLink when land is being acquired for transit infrastructure. There will be opportunities to buy more than the minimum land required and then take advantage of land value gains to both generate revenue and make land available for



- affordable housing. For local governments, this will require capital funding. For TransLink this will require an expansion of its mandate to include support for affordable housing, as well as a policy that enables making surplus land available at less than maximum potential value.
- b. Strategic land acquisition by local government in areas that will undergo planning and redevelopment for increased density, whether or not new transit infrastructure is being constructed. This requires a mandate and budget land acquisition and a mandate to include affordable housing in the redevelopment of such lands. This kind of strategic acquisition could include (for example) assembly of parcels adjacent to existing civic uses that will be redeveloped and expanded to meet community needs.

These strategies require land acquisition in the early stages of project design or neighbourhood planning. When plans are announced long before implementation, the private sector tends to acquire lands more aggressively than the public sector.

- 5. Making land (or more often density) available at no cost is a crucial element in achieving more rental housing, especially affordable rental. This means increasing allowable densities and, when used for rental, not requiring CACs in most cases. Extra density for rental developments, for private or non-profit developers, provides the capacity for rental housing and it provides greater potential to combine a mix of market and affordable rentals (possibly but not necessarily in the same building), which is one way to make affordable rental units financially viable.
 - In addition, because affordable rental is not financially viable on its own in most cases, there is a need for incentives. One of the best available incentives is to make new residential strata density available (via density bonus or negotiated rezoning) to developers in exchange for affordable rental housing. The additional density must be a combination of strata and rental in order to generate enough new strata land value to support the construction of affordable rental. This approach is already used extensively in Metro Vancouver and it is successful because it captures the land value of new strata density and also creates the physical capacity to accommodate new rental construction. The use of density bonusing and rezonings to achieve affordable housing can be expanded if local governments adopt area plans to designate lands for redevelopment, reduce uncertainty, and accelerate approvals to reduce cost.

The approvals tap must be opened much wider than it currently is in most communities in Metro Vancouver or new rental unit construction will not keep pace with projected requirements based on growth in the number of households.

6. Residential rental tenure zoning or inclusionary housing requirements will not result in a significant amount of new rental housing construction, unless these approaches are combined with increases in density to offset the cost. Even with density increases, in many parts of the region new rental construction (and especially affordable rental housing) is not financially viable in high densities that require concrete construction. Residential tenure zoning or mandatory requirements for affordable units without incentives will risk shifting sites from redevelopment candidates to holding property, because rental (even at market rates) in most places is not able to support enough land value to compete sites away from their existing uses such as single detached homes or older low density commercial use. Residential rental tenure zoning can prevent or postpone the demolition of older rental stock, by eliminating strata development as a potential use, but this does not contribute to increased rental supply. Applying residential tenure zoning to private sites, without extra density or incentives, also creates market uncertainty, can reduce market interest in new rental construction, and can reduce investor interest in owning rental property.



- 7. Because residential rental tenure zoning cannot dictate rent levels, any rental built under rental tenure zoning, without extra density, is likely to be market rental in the absence of other controls. Housing agreements under Section 483 of the Local Government Act, on the other hand, create the ability to require rental units and to set rents (among other requirements).
- 8. Taking into consideration the value that can be created by increased density and the conditions that can be achieved by using housing agreements, the best zoning strategy for increasing rental supply is to grant additional strata density and rental density on the condition that some of the new strata value created is converted into affordable housing governed by a housing agreement that specifies rental tenure and sets the rents to be affordable (and financially viable).
- 9. While addressing the land availability challenge is crucial, government agencies should not ignore the importance of other ways to address the financial difficulty of providing new rental housing. Steps such as reducing construction cost (e.g. reduced DCCs, reduced parking), continuing to provide financing at below market rates, and providing technical assistance to non-profits are important.
- 10. Local governments can help increase the supply of new rental housing by accelerating approvals processes and taking care in setting design and construction requirements for affordable housing, with an eye to the cost implications of these requirements.
- 11. Local governments should be willing to experiment and be flexible regarding how affordable units are delivered by the private sector. Providing affordable units on a development site is the typical approach now, but this works best when the site is large enough to accommodate the affordable units in a standalone building. Where the affordable housing obligation for a project is relatively small, local governments should consider the option of having the units provided off site or in the form of cash-in-lieu funds pooled to create public sector or non-profit projects. If the question is framed as "what delivers the most units" rather than starting with an assumption about ownership and location, new creative solutions can emerge.
- 12. There is broad consensus among private and non-profit housing developers that stand-alone, self-contained rental buildings (with all affordable rental or a mix of market and affordable rental under single ownership) work better than buildings that have mixed tenure (strata and rental) or mixed ownership (via air parcels). Where possible, local governments should look for ways that affordable housing requirements can be satisfied in single ownership rental buildings. This makes it easier and more efficient for property management, capital repairs, financing, and very long term decisions about redevelopment.
- 13. Goals for transit-oriented affordable rental should not focus only on rapid transit stations. These areas are generally planned for densities that require concrete construction, which is expensive. Frequent transit corridors, with good bus service and where the appropriate density can be achieved in wood frame construction, or the shoulder areas around rapid transit nodes can deliver more units for a given investment.
- 14. Integrated planning for transit and land use in transit-oriented areas should plan for affordable housing from the beginning. Because affordable rental housing cannot support land value, it is essential that plans for residential densification define early goals for the mix of market and affordable housing and early strategies for how affordable housing can be achieved. This requires signals not just about how much density is planned, but also the conditions under which additional density will be available, the anticipated mix of market rental, affordable rental, and strata housing, and the implementation plan for the affordable rental component. If these goals are defined early, the land market and the private sector development industry are more able to respond appropriately and the capacity for affordable rental housing can be



created. This integrated planning should include early identification of lands owned by the public sector or by non-profits that could be good sites for additional density for affordable rental housing.

Appendix 1: Average Apartment Rents in Metro Vancouver, 2018

Vancouver — Rental Market Statistics Summary by Census Subdivision

October 2018 Apartment 1 Bedroom

			Average Rent	П				Г	
			(\$) lowest to						
	Vacancy Rate (%)		highest		Median Rent (\$)	% Change		Units
Maple Ridge (CY)	1	а	878	а	874	а	7.7	С	776
Delta (DM)	1.3	а	931	a	918	а	6.3	a	853
Surrey (CY)	0.4	а	978	а	960	а	5.4	С	2,648
Langley (CY)	1.6	а	1,017	а	939	а	9	b	939
White Rock (CY)	0.9	а	1,019	a	960	а	**		939
Port Moody (CY)	**		1,020	a	985	а	++		140
Coquitlam (CY)	1.2	а	1,096	а	1,075	а	11.1	С	1,815
New Westminster (CY)	1.6	а	1,109	а	1,057	а	8.3	b	5,478
Port Coquitlam (CY)	1	а	1,140	a	1,055	b	5.5	С	323
Burnaby (CY)	2.2	а	1,149	а	1,100	а	5.5	b	7,446
Pitt Meadows (CY)	0.8	а	1,174	a	1,200	а	**		136
Langley (DM)	1.5	а	1,175	а	1,258	b	++		201
Richmond (CY)	1	а	1,213	а	1,150	а	4.5	а	1,429
Vancouver	1.1	а	1,307	а	1,250	а	6.4	а	67,989
North Vancouver (CY)	1	а	1,333	а	1,298	а	7.3	С	3,660
Vancouver (CY)	0.8	а	1,411	а	1,389	а	6.2	а	38,795
North Vancouver (DM)	0.9	а	1,452	а	1,460	а	6	b	360
West Vancouver (DM)	0.4	a	1,620	a	1,610	а	4.2	С	1,303
Greater Vancouver A (RDA	0.3	а	1,749	а	1,741	а	4.9	С	748

Notes

The following letter codes are used to indicate the reliability of the estimates: a - Excellent, b- Very good, c - Good, d - Fair (Use with Caution)

- ** Data suppressed to protect confidentiality or data not statistically reliable
- ++ Change in rent is not statistically significant. This means that the change in rent is not statistically different than zero (0). (Applies only to % Change of Average Rent Tables).
- No units exist in the universe for this category

n/a: Not applicable

CMA, CA and CSD definitions are based on 2016 Census Geography Definitions

Source CMHC Rental Market Survey

Vancouver — Rental Market Statistics Summary by Census Subdivision

October 2018 Apartment 2 Bedroom

			Average Rent						
			(\$) lowest to					Ш	
	Vacancy Rate (%)		highest		Median Rent (\$)	% Change		Units
Maple Ridge (CY)	2.9	a	1,120	a	1,125	а	9.2	С	461
Surrey (CY)	0.5	a	1,151	a	1,090	а	4.2	С	2,485
Delta (DM)	1.4	а	1,185	а	1,210	а	4	b	767
Port Moody (CY)	**		1,266	b	1,304	b	**		95
Pitt Meadows (CY)	0.8	а	1,270	а	1,250	а	3.2	С	134
White Rock (CY)	1.6	С	1,280	a	1,209	а	8.6	С	375
Coquitlam (CY)	0.9	a	1,290	а	1,276	а	7.7	b	1,062
Langley (CY)	1.2	а	1,330	а	1,250	а	9.8	С	1,008
Burnaby (CY)	1.5	a	1,466	a	1,400	а	4.6	b	3,283
Richmond (CY)	0.3	a	1,466	а	1,409	а	8.5	a	1,191
Port Coquitlam (CY)	3.1	С	1,472	b	1,288	С	9.5	С	307
New Westminster (CY)	1.1	а	1,476	а	1,413	а	7.5	b	2,243
North Vancouver (CY)	0.6	a	1,648	а	1,575	а	5.5	d	1,853
Vancouver	0.9	а	1,649	а	1,505	а	5.5	а	26,751
Langley (DM)	2.6	a	1,658	a	1,753	а	**		190
North Vancouver (DM)	3.2	a	1,833	a	1,750	а	6.2	а	391
Vancouver (CY)	0.7	а	1,964	а	1,875	а	5.3	b	9,622
Greater Vancouver A (RDA	0.2	a	2,259	a	2,350	b	4.7	С	590
West Vancouver (DM)	1.1	a	2,408	а	2,350	а	-1.9	С	694

Notes

The following letter codes are used to indicate the reliability of the estimates: a - Excellent, b- Very good, c - Good, d - Fair (Use with Caution)

- ** Data suppressed to protect confidentiality or data not statistically reliable
- ++ Change in rent is not statistically significant. This means that the change in rent is not statistically different than zero (0). (Applies only to % Change of Average Rent Tables).
- No units exist in the universe for this category

n/a: Not applicable

CMA, CA and CSD definitions are based on 2016 Census Geography Definitions

Source CMHC Rental Market Survey



Appendix 2: Calculations of Break Even Rent for New Apartments Under Different Scenarios for Private Vs Non-Profit, Financing Structure Type

Metro Vancouver - Break Even Rent Calculations

Assumptions:

Unit Size:	Net-to- Gross Rat	SqFt/1BR io Unit	SqFt/ 2BR Unit
Net SqFt per unit	85	575	750
Gross SqFt per unit		676	882
Capital Cost Components:			
Construction Cost	\$/Gross Sc	Ft \$/1BR Unit	\$/2BR Unit
Concrete - all in construction cost	\$ 50	0 \$ 338,000	\$ 441,000
Wood Frame - all in construction cost	\$ 42	0 \$ 283,920	\$ 370,440
Land Cost	\$/SqFt	\$/1BR Unit	\$/2BR Unit
No Land Cost	\$ -	\$ -	\$ -
Land - low		0 \$ 33,800	\$ 44,100
Land - Med	\$ 12	5 \$ 84,500	\$ 110,250
Land - High	\$ 20	0 \$ 135,200	\$ 176,400
	% of Cons	t	
PRIVATE Developer's Profit	Cost + Lar	d \$/1Br Unit	\$/2Br Unit
Concrete - No Land Cost	15	% \$ 50,700	\$ 66,150
Concrete - Low Land	15	% \$ 55,770	\$ 72,765
Concrete - Med Land	15	% \$ 63,375	\$ 82,688
Concrete - High Land	15	% \$ 70,980	\$ 92,610
Wood Frame - No Land Cost	15	% \$ 42,588	\$ 55,566
Wood Frame - Low Land	15	% \$ 47,658	\$ 62,181
Wood Frame - Med Land	15	% \$ 55,263	\$ 72,104
Wood Frame - High Land	15	% \$ 62,868	\$ 82,026
	% of Cons	t	
NON-PROFIT Developer's Fee	Cost + Lar	d \$/1Br Unit	\$/2Br Unit
Concrete - No Land Cost	5	% \$ 16,900	\$ 22,050
Concrete - Low Land	5	% \$ 18,590	\$ 24,255
Concrete - Med Land	5	% \$ 21,125	\$ 27,563
Concrete - High Land	5	% \$ 23,660	\$ 30,870
Wood Frame - No Land Cost	5	% \$ 14,196	\$ 18,522
Wood Frame - Low Land	5	% \$ 15,886	\$ 20,727
Wood Frame - Med Land	5	% \$ 18,421	\$ 24,035
Wood Frame - High Land	5	% \$ 20,956	\$ 27,342
Total Capital Cost Scenarios:			
A. PRIVATE Developer			
Cost = Construction + Land + Dev Profit		\$/1Br Unit	\$/2Br Unit
Concrete - No Land Cost		\$ 388,700	\$ 507,150
Concrete - Low		\$ 427,570	\$ 557,865
Concrete - Med		\$ 485,875	\$ 633,938
Concrete - High		\$ 544,180	\$ 710,010
Wood Frame - No Land Cost		\$ 326,508	\$ 426,006
Wood Frame - Low		\$ 365,378	\$ 476,721
Wood Frame - Med		\$ 423,683	\$ 552,794
Wood Frame - High		\$ 481,988	\$ 628,866
B. NON-PROFIT Developer			
Cost = Construction + Land + Dev Fee		\$/1Br Unit	\$/2Br Unit
Concrete - No Land Cost		\$ 354,900	\$ 463,050
Concrete - Low		\$ 390,390	\$ 509,355
Concrete - Med		\$ 443,625	\$ 578,813
Concrete - High	***************************************	\$ 496,860	\$ 648,270
Wood Frame - No Land Cost		\$ 298,116	\$ 388,962
Wood Frame - Low		\$ 333,606	\$ 435,267
Wood Frame - Med		\$ 386,841	\$ 504,725
Wood Frame - High		\$ 440,076	\$ 574,182
Annual Operating Cost:		\$/1Br Unit	\$/2Br Unit
Cost/year/unit		\$ 4,800	\$ 6,200
Cost/month/unit		-\$ 400.00	-\$ 516.67



		NON-
	PRIVATE	PROFIT
	Developer'	Developer'
ancing Terms:	s Financing	s Financing
Interest Rate		
Nominal rate (%/year semi annual compounding)	4.0%	3.0%
Effective rate per compounding period	2.0%	1.5%
Equivalent Monthly rate	0.3305890%	0.2484517%
Amortization Period		
# Years	35	50
# Months	420	600
Principal (as % of Cost)	75%	100%
Monthly Payment Factor (for Principal = \$1)	-\$0.0044080	-\$0.0032084
Equity (as % of Cost)	25%	0%
Required Return on Equity		
% Return per year, annual compounding	7.0%	0.0%
% Return per month (equivalent to annual rate)	0.5654145%	0.000000%

Monthly Financing Costs:

	Monthly Pmt PRIVATE				Monthly Pmt NON-				
Mortgage Payment	Developer					PROFIT Developer			
Principal = % X (Const Cost+Land+Dev Profit or Fee	\$/18	Br Unit	\$/	2Br Unit	\$/	1Br Unit \$/2Br Uı	nit		
Concrete - No Land Cost	-\$	1,285	-\$	1,677	-\$	1,139 -\$ 1,48	36		
Concrete - Low Land	-\$	1,414	-\$	1,844	-\$	1,253 -\$ 1,63	34		
Concrete - Med Land	-\$	1,606	-\$	2,096	-\$	1,423 -\$ 1,85	7		
Concrete - High Land	-\$	1,799	-\$	2,347	-\$	1,594 -\$ 2,08	30		
Wood Frame - No Land Cost	-\$	1,079	-\$	1,408	-\$	956 -\$ 1,24	18		
Wood Frame - Low Land	-\$	1,208	-\$	1,576	-\$	1,070 -\$ 1,39	97		
Wood Frame - Med Land	-\$	1,401	-\$	1,828	-\$	1,241 -\$ 1,61	19		
Wood Frame - High Land	-\$	1,593	-\$	2,079	-\$	1,412 -\$ 1,84	12		
·····				***************************************					

Required Monthly

	Requ	ROE, NON-PROFIT Developer						
Return On Equity	PR							
Cost = % Required Return X Equity	\$/18	Br Unit	\$/2	Br Unit	\$/1	Br Unit	\$/2E	3r Unit
Concrete - No Land Cost	-\$	549	-\$	717	\$	-	\$	-
Concrete - Low Land	-\$	604	-\$	789	\$	-	\$	-
Concrete - Med Land	-\$	687	-\$	896	\$	-	\$	-
Concrete - High Land	-\$	769	-\$	1,004	\$	-	\$	-
Wood Frame - No Land Cost	-\$	462	-\$	602	\$	-	\$	-
Wood Frame - Low Land	-\$	516	-\$	674	\$	-	\$	-
Wood Frame - Med Land	-\$	599	-\$	781	\$	-	\$	-
Wood Frame - High Land	-\$	681	-\$	889	\$	-	\$	-

Break Even Rents*

*Break Even is defined as Rent needed to cover Operating Costs, and Mortgage payment (P+I) and

Return on Equity (interest only) required to finance Capital Costs**

**Capital Costs = Construction Cost + Land + Developer's Profit or Fee. Land Cost is sometimes set to zero.

Break Even Rent with					Break Even Rent with					
	PRIVATE Developer				NON-PROFIT					
					Non-Profit		Non-			
Capital Cost Scenario:	Private 1BR		Private 2BR		1BR		Profit 2Br			
Concrete - No Land	\$	2,234	\$	2,910	\$	1,539	\$	2,002		
Concrete - Low Land	\$	2,418	\$	3,150	\$	1,653	\$	2,151		
Concrete - Med Land	\$	2,693	\$	3,509	\$	1,823	\$	2,374		
Concrete - High Land	\$	2,968	\$	3,868	\$	1,994	\$	2,597		
Frame - No Land	\$	1,941	\$	2,527	\$	1,356	\$	1,765		
Frame - Low Land	\$	2,124	\$	2,767	\$	1,470	\$	1,913		
Frame - Med Land	\$	2,400	\$	3,126	\$	1,641	\$	2,136		
Frame - High Land	\$	2,675	\$	3,485	\$	1,812	\$	2,359		



Appendix 3: Explanation of Cap Rates and Implications for New Private Sector Rental Construction

A Cap rate is a simple but common measure used to relate the annual income from a property to the value an investor would be willing to pay for the property, using the formula Cap Rate = Net Operating Income/Value. This can be algebraically revised to the form Value = Net Operating Income/Rate, so that if one knows the net operating income from an asset and applies a target cap rate, one can estimate the value of the asset. If a rental apartment building generates annual net operating income of \$1,000,000 and the investor applies a cap rate of say 3.75%, the value of the asset would be about \$26.7 million. However, if the investor applies a cap rate of 4%, the most the investor would pay for this asset is \$25.0 million. This is crucial to the viability of new projects because the all-in cost (land, construction cost, profit) must be equal to or less than this value for the project to proceed. If the creation cost of a possible new apartment building will be \$30 million, but the rental income only supports a value to an investor of \$28 million, this project is not viable.

It is important to understand that the cap rate is a simple indicator that is not usually equal to the true rate of return that an investor expects to earn over the life of an investment. Return on an income-producing property usually has three components: the return derived from the continuation of current income, the return derived from growth in income (on the basis that rents will rise faster than operating costs), and the return derived from selling the asset for more than the original purchase price (which happens if the income goes up). The combined total return on investment (using IRR, or Internal Rate of Return) is usually about 2% to 3% higher than the cap rate. So, if prevailing cap rates are 4%, then it is likely that investors are expecting the project to yield 6% to 7% IRR. The cap rate only reflects the part of the return that comes from continuation of current income. If the potential for future income growth becomes lower for any reason, then the portion of total return that comes from current income must increase (i.e. cap rates go up). So, why would cap rates increase for rental apartment buildings? There are several possible reasons. One possibility is rising interest rates. If mortgage rates increase, then a given net operating income supports less borrowing which tends to put downward pressure on the amount investors are willing to pay for an asset. Also, rising interest rates can mean investors can earn a greater return on investments with less risk than real estate, so real estate prices must fall to match the performance. Another possibility, and it should be a crucial consideration in government regulation of rental housing, is that investors see a risk of reduced future income due to rent control. If growth in rents is constrained, then a higher proportion of total return must come from continuation of current income, so cap rates rise. If cap rates rise, then the value of assets falls, so it becomes harder to deliver a new project within this lower ceiling on total creation cost.

Appendix 4: Metro Vancouver Local Government Measures to Encourage or Facilitate Rental Housing

The table on the following page summarizes local government measures in Metro Vancouver to encourage and support purpose-built rental housing. A check mark indicates that the local government currently has zoning or policy documents in place (or draft bylaws) to implement the indicated measure for market rental housing, below-market rental housing, and/or non-market rental housing. If a municipality's OCP, housing strategy, or housing action plan calls for exploring the potential to implement one of the tools, but detailed policy or bylaw amendments have not yet been drafted or adopted, we have left the cell blank.

This table was compiled using information from Metro Vancouver's "2018 Municipal Measures for Housing Affordability and Diversity" table supplemented with internet research, anecdotal observations as of mid-January 2019, and discussions with staff at some municipalities. Direct contact with each municipality was not within the scope of our work.

Readers interested in understanding a given municipality's specific measures to encourage and support rental housing should contact municipal staff directly. Municipal policies and regulations to support rental housing in the region are changing quickly, so the measures being used by individual municipalities are fluid and subject to change.

	White Rock	>	>	>							
	West Vancouver	>	>	>	>	>				>	
	Nancouver	>	>	>	>	>		>		>	>
	Surrey	>	>	>	>	>		>	2 8	>	
	Richmond	>	>	>	>			1			
	Роң Мооду	>	>	>	>	>	>	>	8	>	
	Port Coquitlam	>		>	>	>	>	>		>	
	Pitt Meadows	>									
	North Vancouver District	>	>	>	>					>	
Ī	North Vancouver City	>	>	>	>	>		>			
	New Westminster	>	>	>	>			>	>		
	Maple Ridge	>	>	>	>			>			
	Township of Langley	>		>	>			>	2 8	3	
İ	City of Langley	>	>		>						
	Delta	>			>			>			
	Coquitlam	>	>	>	>	>	>	>			
İ	Bumaby	>	>	>	>	>	>	>	>	>	
Local Government Measures to Encourage or Facilitate Rental Housing		Allow secondary suites, laneway houses, and/or coach houses	Rental unit retention/replacement policies ^a	Density increases linked to rental housing requirements (either via density bonusing or case-by-case negotiations as part of rezonings) ^b	Construction cost reductions: • Reduced parking requirements ^c	 Reduced municipal DCCs^d 	 Other cost reductions (e.g. permit fees)^d 	Approvals process assistance	Rental only zoninge	Offer municipal lands at less than market value	Direct investment in new rental housing

- existing rental units, and/or requiring one-for-one replacement of demolished rental units (in some cases with requirements to provide the same number of units by type or by a. Rental unit retention/replacement policies vary throughout the region and include restrictions on stratifying existing rental projects, demolition policies to restrict the loss of size and with rent limitations)
- Some municipalities offer additional density that is linked to providing below-market rental units in market rental housing projects (e.g. North Vancouver City), requiring market or below-market rental housing in strata residential projects (e.g. draft policy in New Westminster, existing policy in Richmond, case-by-case rezonings in the District of North Vancouver and in West Vancouver), and requiring non-market housing in strata residential projects as part of rezoning approvals (e.g. Vancouver)
- This includes direct waivers or reductions of DCCs (or DCLs in Vancouver) as well as indirect measures such as providing grants that can be used to off-set municipal DCCs c. This includes parking reductions available to projects (rental and strata) near transit, parking reductions set out in policies specifically to support rental housing projects, and case-by-case reductions of parking requirement reductions for rental housing projects.
- "rental only" zoning is a relatively new tool. Burnaby adopted zoning bylaw amendments in fall 2018 to allow rental 'r' sub-districts to be applied to existing districts that permit and/or permit fees. ė.
 - projects in the near future. New Westminster adopted a bylaw in late January 2019 that will apply a new rental residential tenure zoning authority to existing rental housing two or more dwelling units. Burnaby is currently developing an implementation strategy for the "rental only" zoning and anticipates applying the "rental only" zoning in pilot stock including 6 stratified rental buildings and 12 City-owned properties. Port Moody was considering applying "rental only" zoning to 4 existing rental projects, but we inderstand this is currently being re-considered so we have not included it.



Appendix 5, 6, and 7: Financial Analysis for Case Study Sites

Appendix 5 – Burnaby Exhibit 1:

Estimated Income Value Assuming Property is Improved with Old Low Density Commercial Buildings

Assume C-3 site located along Kingsway

Major Assumptions						
Site and Building Size						
Existing Zoning						

Existing Zoning	C-3			
		sq.ft.		
Site Size	55,000	or	215	by
Assumed Density	0.40	FSR		
•			100	rentabl
Retail	22,000	sq.ft.	%	е
Revenue and Value				
		per sq.f	t. net, ba	se
Average Lease Rate for Retail Space	\$25.00	building		
Capitalization Rate	4.75%			
Value of Retail and Service Space Upon Lease-up	\$526	per sq.f	t. of leas	able area
Vacancy and non recoverables	0%	,		
•				

Estimated Overall Value

	\$11,578,94
Capitalized Value of Retail/Service Space	7
·	\$11,578,94
Total Value of Commercial	7

Appendix 5 – Burnaby Exhibit 2:

Estimated Income Value of Property if Improved with an Older Low Density Rental Building

	Rental Apartment Value
	Nemai Apartment value
Site Size (SF)	55,000
Assumed FSR	0.9
Total Floor Area (SF)	49,500
Average Gross Unit Size (SF)	800
Number of Units	62
Market Value Per Unit1	\$275,000
Value of Rental	\$17,050,000

¹Based on recent market transactions.



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Appendix 5 - Burnaby Exhibit 3:

Land Residual Estimate for Wood Frame Strata Development

Assume 1.5 FSR achieved under RM3s Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	55,000	sq.ft.
Dedications	0	sq.ft.
Site Size	55,000	sq.ft. o
Site Frontage	620	ft
Base Density	1.1	FSR
Bonus Density	0.4	FSR
Total Density	1.5	FSR
Total Gross floorspace	82,500	sq.ft.
Gross residential floorspace	82,500	sq.ft.
Gross commercial floorspace	0	sq.ft.

						Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1000	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share	of Units
Strata Residential	82,500	85%	70,125	725	97	1.1	107	100%
Rental 1	0	85%	0	573	0	1.1	0	0%
Rental 2	0	85%	0	565	0	0.6	0	0%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	0	100%	0	n/a	n/a	2.0	0 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	82,500		70,125		97		107	100%

Revenue/Value

Strata Residential Rental 1 Rental 2 Rental 3 Retail

\$850 per net square foot \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations)

1.26 acre

Parking

Pre Construction Costs

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings Allowance for Remediation Site Preparation/Fill Standard Site Servicing Density Bonus Contribution Rezoning Costs

\$0 \$500,000 \$0 \$0

\$5,000 per lineal metre of frontage \$176 psf of bonus density

\$500,000



Appendix 5 – Burnaby Exhibit 3 Continued:

Construction Costs Hard Construction Costs Market Strata Residential Area

Rental 1 Residential Area Rental 2 Residential Area Rental 3 Residential Area Retail Area (shell space - no TI)

Office Area (shell space - no Tl)
Cost Per Garage/Underground Parking Stall

Overall Costs Per Square Foot Sustainability Premium

Total Estimated Cost per Square Foot

Hard Cost Used in Analysis Site Landscaping

Electrical Charging Station

Other

Soft costs and Professional Fees Development management Fees, legal and survey for rental portion

Contingency on hard and soft costs

Car Share

Government Levies

GVS & DD Sewer Lew - Strata Apartment GVS & DD Sewer Lew - Townhouse GVS & DD Sewer Levy - Rental Residential GVS & DD Sewer Lew - Commercial

TransLink - Strata Apartment Residential TransLink - Townhouse

TransLink - Rental Residential TransLink - Commercial

Market Strata Apartment DCCs

Market Townhouse DCCs Rental 1 Residential DCCs

Rental 2 Residential DCCs Rental 3 Residential DCCs

Retail DCCs

Office DCCs

School Site Acquisition Charge

Financing

Interim financing Financing charged on

Financing fees

Commissions and Marketing

Commissions on Strata Residential Marketing on Strata Residential Commissions on Sale of Commercial Commission on Sale of Rental Units

Initial Lease Up Costs on Rental 1 Units Initial Lease Up Costs on Rental 2 Units Initial Lease Up Costs on Rental 3 Units Leasing Commissions on Commercial Space Tenant Improvement Allowance on Retail Space

Tenant Improvement Allowance on Office Space

Other Costs and Allowances Net GST on Market and Below Market Rental Units

Net GST on Social Housing Units

Property Taxes

Assumed current assessment (Year 1 of analysis)

Assumed assessment after 1 year of construction (Year 2 of analysis) \$29,803,125 (50% of completed project value) Developer's Profit

School Tax Surcharge During Development*

Residential Portion of current assessment (Year 1 of analysis)

Assumed residential portion of assessment after 1 year of constructio \$29,803,125 (50% of completed residential project value) *Assumes BC Owner

0.2% between \$3.0-\$4.0 0.4% over \$4.0 million \$10,500,000

\$0 per gross sq.ft. of rental residential area \$0 per gross sq.ft. of retail area \$0 per gross sq.ft. of commercial area \$50,000 per underground/structured parking stall \$270 per gross sq.ft.

\$0 per gross sq.ft. of rental residential area

\$205 per gross sq.ft, of residential area \$0 per gross sq.ft. of rental residential area

0% \$270 \$270 \$550,000 or

\$97,000 97 stations \$1,000 per station \$0 8.5% of hard costs, landscaping and site prep/servicing costs

3.0% of hard costs, landscaping and site prep/servicing costs and soft costs

\$20 psf of site area on 50% of site

5.0% of hard, soft and management costs

\$1,072 per apartment unit \$0 per townhouse unit

\$1,072 per unit

\$0.93 per sq.ft. of commercial space \$1,200 per market unit

\$0 per market unit \$1,200 per unit

\$1.25 per sq.ft. of commercial space \$0.00 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace \$0.00 per sq.ft. of floorspace \$0.00 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace \$0.306 per sq.ft. of floorspace \$0.00 per sq.ft. of floorspace

\$600 per unit

5.0% assuming a 1.75 year construction period 50% of land and 75% of construction costs

3.0% of gross strata market residential revenue 3.0% of gross strata market residential revenue 2.0% of gross commercial value

2.0% of value

\$3,000 per unit \$3,000 per unit \$1,000 per unit

\$5.00 per sq.ft \$25.00 per sq.ft. \$50.00 per sq.ft.

5.00% of capitalized value of rental units

2.50% of development cost of new units (assumes rebate) 0.284% of assessed value

\$10,500,000

15.0% of total costs or 13.0% of gross market revenue/value



Appendix 5 – Burnaby Exhibit 3 Continued:

Revenue	
Strata Sales Revenue	\$59,606,250
Rental 1 Value	\$0
Rental 2 Value Rental 3 Value	\$0 \$0
Gross Retail Value	\$0
Gross Office Value	\$0
Total Gross Value	\$59,606,250
Less Commissions on Strata	\$1,788,188
Less Commissions on Rental	\$0
Less Commissions on Commercial Net Sales Revenue/Value	\$0 \$57,818,063
Net Gales Nevertue/ value	\$37,010,003
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings	\$500,000
Allowance for Remediation Site Preparation/Fill	\$0 \$0
Standard Site Servicing	\$945,122
Electrical Charging Station	\$97,000
Density Bonus Contribution	\$3,875,728
Rezoning Costs	\$500,000
Hard Construction Costs	\$22,262,500
Site Landscaping Electrical Charging Station	\$550,000 \$97,000
Other	\$0
Soft costs and Professional Fees	\$2,407,825
Development management	\$922,055
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	\$1,607,862
Car Share Marketing on Strata Units	\$0 \$1,788,188
Initial Lease Up Costs on Rental 1 Units	\$1,700,100
Initial Lease Up Costs on Rental 2 Units	\$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space	\$0
Tenant Improvement Allowance on Retail Space	\$0
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment GVS & DD Sewer Levy - Townhouse	\$103,984 \$0
GVS & DD Sewer Levy - Rental Residential	\$0
GVS & DD Sewer Levy - Commercial	\$0
TransLink - Strata Apartment Residential	\$116,400
TransLink - Townhouse	\$0
TransLink - Rental Residential	\$0
TransLink - Commercial Market Strata Apartment DCCs	\$0 \$0
Market Townhouse DCCs	\$0 \$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs	\$0
Retail DCCs	\$0
Office DCCs	\$0
School Site Acquisition Charge Less property tax allowance during approvals/development	\$58,200 \$108,192
Less School Tax Surcharge During Development	\$120,909
Interim financing on construction costs	\$1,179,283
Financing fees/costs	\$418,953
Less Net GST (assuming builder holds units)	\$0
Total Project Costs Before Land	\$37,659,200
Developer's Profit	\$7,772,655
Residual to Land and Land Carry	\$12,386,207
Less financing on land during construction and approvals	\$620,085
Less financing fee on land loan	\$79,421
Less property closing costs	\$480,618
Residual Land Value	\$11,206,083
Residual Value per sq.ft. of site	\$204
Residual Value per sq.ft. of FSR	\$136
Residual Value per sq.ft. of gross buildable floorspace	\$136



Appendix 5 – Burnaby Exhibit 4:

Land Residual Estimate for Wood Frame Rental Development Assume 1.5 FSR achieved under RM3s

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	55,000	sq.ft.
Dedications	0	sq.ft.
Site Size	55,000	sq.ft.
Site Frontage	620	ft
Base Density	1.1	FSR
Bonus Density	0.4	FSR
Total Density	1.5	FSR
Total Gross floorspace	82,500	sq.ft.
Gross residential floorspace	82,500	sq.ft.
Gross commercial floorspace	0	sq.ft.

						Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1000	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share	of Units
Strata Residential	0	85%	0	650	0	1.1	0	0%
Rental 1	82,500	85%	70,125	589	119	1.1	131	100%
Rental 2	0	85%	0	565	0	0.6	0	0%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	0	100%	0	n/a	n/a	2.0	0 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	82,500		70,125		119		131	100%

\$763 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)

\$0 per net square foot including parking revenue (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations)

\$5,000 per lineal metre of frontage

\$0 per net square foot

1.26 acre

Parking

Rental 3
Retail
Office
Pre Construction Costs

Revenue/Value Strata Residential

Rezoning Costs

Rental 1

Rental 2

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings Allowance for Remediation Site Preparation/Fill Standard Site Servicing Density Bonus Contribution \$0 \$0 \$500,000 \$0 \$0 \$945,122

\$945,122 \$0 psf of bonus density

\$500,000

Appendix 5 - Burnaby Exhibit 4 Continued:

Construction Costs Hard Construction Costs Market Strata Residential Area \$0 per gross sq.ft. of residential area Rental 1 Residential Area \$195 per gross sq.ft, of rental residential area Rental 2 Residential Area \$0 per gross sq.ft. of rental residential area Rental 3 Residential Area \$0 per gross sq.ft. of rental residential area \$0 per gross sq.ft. of retail area Retail Area (shell space - no TI) Office Area (shell space - no TI) \$0 per gross sq.ft. of commercial area Cost Per Garage/Underground Parking Stall \$50,000 per underground/structured parking stall Overall Costs Per Square Foot \$274 per gross sq.ft. Sustainability Premium 0% Total Estimated Cost per Square Foot \$274 Hard Cost Used in Analysis \$274 Site Landscaping \$550,000 or \$20 psf of site area on 50% of site \$119,000 \$1,000 per station Electrical Charging Station 119 stations Soft costs and Professional Fees 8.5% of hard costs, landscaping and site prep/servicing costs 3.0% of hard costs, landscaping and site prep/servicing costs and soft costs Development management Fees, legal and survey for rental portion Contingency on hard and soft costs Car Share 5.0% of hard, soft and management costs Government Levies GVS & DD Sewer Levy - Strata Apartment \$1,072 per apartment unit GVS & DD Sewer Lew - Townhouse GVS & DD Sewer Lew - Rental Residential \$0 per townhouse unit \$1,072 per unit GVS & DD Sewer Levy - Commercial \$0.93 per sq.ft. of commercial space TransLink - Strata Apartment Residential \$1,200 per market unit TransLink - Townhouse \$0 per market unit TransLink - Rental Residential \$1,200 per unit TransLink - Commercial \$1,25 per sq.ft, of commercial space Market Strata Apartment DCCs \$0.00 per sq.ft. of floorspace Market Townhouse DCCs \$0.00 per sq.ft. of floorspace Rental 1 Residential DCCs \$0.00 per sq.ft. of floorspace Rental 2 Residential DCCs \$0.00 per sq.ft. of floorspace Rental 3 Residential DCCs \$0.00 per sq.ft. of floorspace Retail DCCs \$0.306 per sq.ft. of floorspace \$0.00 per sq.ft. of floorspace Office DCCs School Site Acquisition Charge Financing Interim financing 5.0% assuming a 1.75 year construction period Financing charged on 50% of land and 75% of construction costs Financing fees 1.5% Commissions and Marketing Commissions on Strata Residential 3.0% of gross strata market residential revenue Marketing on Strata Residential 3.0% of gross strata market residential revenue Commissions on Sale of Commercial 2.0% of gross commercial value Commission on Sale of Rental Units 2.0% of value Initial Lease Up Costs on Rental 1 Units \$3,000 per unit Initial Lease Up Costs on Rental 2 Units \$3,000 per unit Initial Lease Up Costs on Rental 3 Units \$1,000 per unit Leasing Commissions on Commercial Space \$5.00 per sq.ft Tenant Improvement Allowance on Retail Space \$25.00 per sq.ft. Tenant Improvement Allowance on Office Space \$50.00 per sq.ft. Other Costs and Allowances Net GST on Market and Below Market Rental Units 5.00% of capitalized value of rental units

Net GST on Social Housing Units Property Taxes

Assumed current assessment (Year 1 of analysis) Assumed assessment after 1 year of construction (Year 2 of analysis \$26,737,091 (50% of completed project value)

2.50% of development cost of new units (assumes rebate) 0.284% of assessed value

\$10,500,000

15.0% of total costs or

13.0% of gross market revenue/value

School Tax Surcharge During Development*

Residential Portion of current assessment (Year 1 of analysis)

0.2% between \$3.0-\$4.0 0.4% over \$4.0 million \$10.500.000

Assumed residential portion of assessment after 1 year of constructio \$26,737,091 (50% of completed residential project value)

*Assumes BC Owner



Appendix 5 - Burnaby Exhibit 4 Continued:

Revenue	
Strata Sales Revenue	\$0
Rental 1 Value Rental 2 Value	\$53,474,181 \$0
Rental 3 Value	\$0
Gross Retail Value	\$0
Gross Office Value	\$0
Total Gross Value Less Commissions on Strata	\$53,474,181 \$0
Less Commissions on Rental	\$1,069,484
Less Commissions on Commercial	\$0
Net Sales Revenue/Value	\$52,404,698
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation Allowance for Demolition of Existing Buildings	\$0 \$500,000
Allowance for Remediation	\$300,000
Site Preparation/Fill	\$0
Standard Site Servicing	\$945,122
Electrical Charging Station Density Bonus Contribution	\$119,000 \$0
Rezoning Costs	\$500,000
Hard Construction Costs	\$22,637,500
Site Landscaping	\$550,000
Electrical Charging Station Other	\$119,000 \$0
Soft costs and Professional Fees	\$2,114,003
Development management	\$809,539
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs Car Share	\$1,414,708 \$0
Marketing on Strata Units	\$0
Initial Lease Up Costs on Rental 1 Units	\$357,000
Initial Lease Up Costs on Rental 2 Units	\$0 \$0
Initial Lease Up Costs on Rental 3 Units Leasing Commissions on Commercial Space	\$0 \$0
Tenant Improvement Allowance on Retail Space	\$0
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment	\$0 \$0
GVS & DD Sewer Levy - Townhouse GVS & DD Sewer Levy - Rental Residential	\$0 \$127,568
GVS & DD Sewer Levy - Commercial	\$0
TransLink - Strata Apartment Residential	\$0
TransLink - Townhouse TransLink - Rental Residential	\$0 \$142,800
TransLink - Commercial	\$142,800
Market Strata Apartment DCCs	\$0
Market Townhouse DCCs	\$0
Rental 1 Residential DCCs Rental 2 Residential DCCs	\$0 \$0
Rental 3 Residential DCCs	\$0
Retail DCCs	\$0
Office DCCs	\$0
School Site Acquisition Charge Less property tax allowance during approvals/development	\$71,400 \$101,662
Less School Tax Surcharge During Development	\$111,711
Interim financing on construction costs	\$1,001,086
Financing fees/costs	\$355,749
Less Net GST (assuming builder holds units) Total Project Costs Before Land	\$2,673,709 \$34,651,557
	40.1,00.1,00.
Developer's Profit	\$6,973,033
Residual to Land and Land Carry	\$10,780,107
Less financing on land during construction and approvals	\$539,679
Less financing fee on land loan	\$69,123
Less property closing costs Residual Land Value	\$408,637 \$9,762,668
	45,. 52,300
Residual Value per sq.ft. of site Residual Value per sq.ft. of FSR	\$178 \$118
Residual Value per sq.ft. of gross buildable floorspace	\$118
•	



Appendix 5 - Burnaby Exhibit 4 Continued:

Rental 1 Value

Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	26	22%	450	\$	1,500
1-Bedroom	57	48%	550	\$	1,700
2-Bedroom	36	30%	750	\$	2,400
3-Bedroom	0	0%	0	\$	-
Total	119	100%		Ī	
Average			589	\$	1,868
				\$	3.17
Annual Revenue					
Studios				\$	468,000
1-Bedroom				\$	1,162,800
2-Bedroom				\$	1,036,800
3-Bedroom				\$	-
TOTAL				\$	2,667,600

Rental 1 Revenue and Operating Cost Assumptions

Rental Rate Per Month \$3.17 psf per month or \$1,868 per unit per month

Monthly Parking Revenue \$100 per month

Monthly Storage Revenue \$40

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$4,450 per unit per year

Property Tax Allowance

Residential Assessment (upon completion of new building) \$55,048,125 (see capitalized value below)

Residential Tax Rate 0.284%
Residential Property Taxes \$156,309
Capitalization Rate for Rental Apartment Space 4.00%

Capitalized Value

Rental Revenue	\$2,667,600
Storage	\$28,560
Parking	\$157,200
Total	\$2,853,360
Vacancy	\$28,534
Net	\$2,824,826
Op Costs	\$529,550
Taxes	\$156,309
NOI	\$2,138,967
Capitalized Value	\$53,474,181
psf of rentable space	\$763



Appendix 5 – Burnaby Exhibit 5:

Land Residual Estimate for Concrete Strata Mixed-Use Development
Assume 5.3 FSR achieved under RM5s (5.0 FSR Residential with 0.3 FSR Commercial)
Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	55,000	sq.ft.
Dedications	0	sq.ft.
Site Size	55,000	sq.ft.
Site Frontage	620	ft
Base Density	3.7	FSR
Bonus Density	1.6	FSR
Total Density	5.3	FSR
Total Gross floorspace	291,500	sq.ft.
Gross residential floorspace	275,000	sq.ft.
Gross commercial floorspace	16,500	sq.ft.

Gross commercial noorspace	10,000 34	-16-						
						Parking Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1000	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share of	of Units
Strata Residential	275,000	85%	233,750	725	322	1.1	354	100%
Rental 1	0	85%	0	573	0	1.1	0	0%
Rental 2	0	85%	0	565	0	0.6	0	0%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	16,500	100%	16,500	n/a	n/a	2.0	33 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	291,500		250,250		322		387	100%

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		_		

Strata Residential Rental 1 Rental 2 Rental 3 Retail

Retail
Office

Pre Construction Costs

Pre Construction Costs Upfront Compensation to Existing Tenants

Tenant Relocation
Allowance for Demolition of Existing Buildings
Allowance for Remediation
Site Preparation/Fill
Standard Site Servicing
Density Bonus Contribution
Rezoning Costs

\$1,150 per net square foot
\$0 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$825 per net square foot including parking revenue (see separate calculations)
\$0 per net square foot including parking revenue (see separate calculations)

\$5,000 per lineal metre of frontage

1.26 acre

\$0 \$0 \$500,000 \$0 \$0 \$945,122 \$253 ps

\$253 psf of bonus density

\$500,000



\$310 per gross sq.ft. of residential area \$0 per gross sq.ft. of rental residential area

\$250 per gross sq.ft. of retail area

\$380 per gross sq.ft.

\$1,072 per apartment unit

\$1,200 per market unit

\$0 per market unit

\$0.00 per sq.ft. of floorspace \$0.00 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace

\$0.306 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace

\$0 per townhouse unit

\$0.93 per sq.ft. of commercial space

\$1.25 per sq.ft. of commercial space

3.0% of gross strata market residential revenue

3.0% of gross strata market residential revenue

2.0% of gross commercial value

0%

\$380

\$380 \$550,000 or

\$0

\$0

\$1,072 per unit

\$1,200 per unit

\$600 per unit

5.0% assuming a

50% of land and

2.0% of value

\$3,000 per unit

\$3,000 per unit \$1,000 per unit

\$5.00 per sq.ft.

\$25.00 per sq.ft.

\$50.00 per sq.ft.

0.284% of assessed value

15.0% of total costs or

1.5%

\$322,000

\$0 per gross sq.ft. of rental residential area

\$0 per gross sq.ft. of rental residential area

\$20 psf of site area on 50% of site

2.50 year construction period

75% of construction costs

\$1,000 per station

322 stations

3.0% of hard costs, landscaping and site prep/servicing costs and soft costs

8.5% of hard costs, landscaping and site prep/servicing costs

\$0 per gross sq.ft. of commercial area

\$55,000 per underground/structured parking stall

5.0% of hard, soft and management costs

Appendix 5 – Burnaby Exhibit 5 Continued:

Construction Costs
Hard Construction Costs

Hard Construction Costs	
Market Strata Residential Area	

Rental 1 Residential Area Rental 2 Residential Area

Rental 3 Residential Area

Retail Area (shell space - no TI)

Office Area (shell space - no TI)

Cost Per Garage/Underground Parking Stall

Overall Costs Per Square Foot Sustainability Premium

Total Estimated Cost per Square Foot

Hard Cost Used in Analysis

Site Landscaping

Electrical Charging Station

Other

Soft costs and Professional Fees

Development management

Fees, legal and survey for rental portion

Contingency on hard and soft costs

Car Share

Government Levies

GVS & DD Sewer Levy - Strata Apartment

GVS & DD Sewer Levy - Townhouse

GVS & DD Sewer Levy - Rental Residential

GVS & DD Sewer Levy - Commercial TransLink - Strata Apartment Residential

TransLink - Townhouse

TransLink - Rental Residential

TransLink - Commercial

Market Strata Apartment DCCs

Market Townhouse DCCs

Rental 1 Residential DCCs

Rental 2 Residential DCCs

Rental 3 Residential DCCs

Retail DCCs

Office DCCs

School Site Acquisition Charge

Financing

Interim financing Financing charged on

Financing fees

Commissions and Marketing

Commissions on Strata Residential

Marketing on Strata Residential Commissions on Sale of Commercial

Commission on Sale of Rental Units

Initial Lease Up Costs on Rental 1 Units

Initial Lease Up Costs on Rental 2 Units

Initial Lease Up Costs on Rental 3 Units

Leasing Commissions on Commercial Space

Tenant Improvement Allowance on Retail Space

Tenant Improvement Allowance on Office Space

Other Costs and Allowances

Net GST on Market and Below Market Rental Units

Net GST on Social Housing Units

Property Taxes

Assumed current assessment (Year 1 of analysis)

Assumed assessment after 1 year of construction (Year 2 of analysis; \$141,214,671 (50% of completed project value)

Developer's Profit

School Tax Surcharge During Development*

Residential Portion of current assessment (Year 1 of analysis)

0.2% between \$3.0-\$4.1 \$45,000,000

0.4% over \$4.0 million

13.0% of gross market revenue/value

Assumed residential portion of assessment after 1 year of constructio \$134,406,250 (50% of completed residential project value)

\$45,000,000

5.00% of capitalized value of rental units

2.50% of development cost of new units (assumes rebate)

*Assumes BC Owner



Appendix 5 - Burnaby Exhibit 5 Continued:

Revenue	
Strata Sales Revenue	\$268,812,500
Rental 1 Value Rental 2 Value	\$0 \$0
Rental 3 Value	\$0
Gross Retail Value	\$13,616,842
Gross Office Value Total Gross Value	\$0 \$282,429,342
Less Commissions on Strata	\$8,064,375
Less Commissions on Rental	\$0
Less Commissions on Commercial Net Sales Revenue/Value	\$272,337 \$274,092,630
Net Sales Revenue, Value	\$274,092,630
Project Costs	
Upfront Compensation to Existing Tenants Tenant Relocation	\$0 \$0
Allowance for Demolition of Existing Buildings	\$500,000
Allowance for Remediation	\$0
Site Preparation/Fill Standard Site Servicing	\$0 \$945,122
Electrical Charging Station	\$322,000
Density Bonus Contribution	\$22,281,935
Rezoning Costs Hard Construction Costs	\$500,000 \$110,660,000
Site Landscaping	\$550,000
Electrical Charging Station	\$322,000
Other	\$0
Soft costs and Professional Fees Development management	\$11,524,390 \$4,413,163
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	\$7,600,930
Car Share Marketing on Strata Units	\$0 \$8,064,375
Initial Lease Up Costs on Rental 1 Units	\$0
Initial Lease Up Costs on Rental 2 Units	\$0
Initial Lease Up Costs on Rental 3 Units Leasing Commissions on Commercial Space	\$0 \$82,500
Tenant Improvement Allowance on Retail Space	\$412,500
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Lew - Strata Apartment GVS & DD Sewer Lew - Townhouse	\$345,184 \$0
GVS & DD Sewer Levy - Rental Residential	\$0
GVS & DD Sewer Levy - Commercial	\$15,345
TransLink - Strata Apartment Residential TransLink - Townhouse	\$386,400 \$0
TransLink - Rental Residential	\$0
TransLink - Commercial	\$20,625
Market Strata Apartment DCCs Market Townhouse DCCs	\$0 \$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs Retail DCCs	\$0 \$5,049
Office DCCs	\$0
School Site Acquisition Charge	\$193,200
Less property tax allowance during approvals/development Less School Tax Surcharge During Development	\$793,135 \$1,034,438
Interim financing on construction costs	\$7,965,837
Financing fees/costs	\$2,013,054
Less Net GST (assuming builder holds units) Total Project Costs Before Land	\$0 \$180,951,181
•	
Developer's Profit	\$36,828,786
Residual to Land and Land Carry	\$56,312,663
Less financing on land during construction and approvals Less financing fee on land loan	\$3,758,870 \$354,738
Less property closing costs	\$2,404,955
Residual Land Value	\$49,794,099
Residual Value per sq.ft. of site	\$905
Residual Value per sq.ft. of FSR	\$171
Residual Value per sq.ft. of gross buildable floorspace	\$171



Appendix 5 - Burnaby Exhibit 5 Continued:

Retail Assumptions

Lease Rate NNN	\$40.00 psf per year
Monthly Parking Revenue (net of costs)	\$0 per month
Vacancy and Non Recoverable Allowance	2.00%
Capitalization Rate	4.75%

Capitalized Value per 1000 SF Gross

Rental Rev	\$40,000
Parking	\$0
Total	\$40,000
Vacancy	\$800
NOI	\$39,200
Capitalized Value	\$825,263
Value psf of net leasable space	\$825.26 psf



Appendix 5 – Burnaby Exhibit 6:

Land Residual Estimate for Rental Mixed-Use Development
Assume 5.3 FSR achieved under RM5s (5.0 FSR Residential with 0.3 FSR Commercial)
Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	55,000	sq.ft.
Dedications	0	sq.ft.
Site Size	55,000	sq.ft.
Site Frontage	620	ft
Base Density	3.7	FSR
Bonus Density	1.6	FSR
Total Density	5.3	FSR
Total Gross floorspace	291,500	sq.ft.
Gross residential floorspace	275,000	sq.ft.
Gross commercial floorspace	16,500	sq.ft.

Gross commercial moorspace	10,000 34							
						Parking Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1000	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share	of Units
Strata Residential	0	85%	0	725	0	1.1	0	0%
Rental 1	275,000	85%	233,750	590	396	1.1	436	100%
Rental 2	0	85%	0	565	0	0.6	0	0%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	16,500	100%	16,500	n/a	n/a	2.0	33 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	291,500		250,250		396		469	100%

\$0 per net square foot

\$500,000

\$500,000

Ottota (tobiadittiai
Rental 1
Rental 2
Rental 3
Retail
Office

Pre Construction CostsUpfront Compensation to Existing Tenants
Tenant Relocation

Allowance for Demolition of Existing Buildings Allowance for Remediation

Allowance for Remediation Site Preparation/Fill Standard Site Servicing Density Bonus Contribution Rezoning Costs

Revenue/Value

\$0	er net square foot (see separate calculations)
\$0	per net square foot (see separate calculations)
\$825	per net square foot including parking revenue (see separate calculations)
\$0	per net square foot including parking revenue (see separate calculations)
\$0	

\$788 per net square foot (see separate calculations)

1.26 acre

\$945,122 \$5,000 per lineal metre of frontage



Appendix 5 – Burnaby Exhibit 6 Continued:

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Cor	nstri	ection	1 Costs

Hard	Cor	istructi	on	Costs	5	
Ма	rket	Strata	Re	siden	tial	Area

Rental 1 Residential Area Rental 2 Residential Area

Rental 3 Residential Area

Retail Area (shell space - no TI)

Office Area (shell space - no TI)

Cost Per Garage/Underground Parking Stall

Overall Costs Per Square Foot Sustainability Premium

Total Estimated Cost per Square Foot

Hard Cost Used in Analysis

Site Landscaping

Electrical Charging Station

Other

Soft costs and Professional Fees

Development management

Fees, legal and survey for rental portion

Contingency on hard and soft costs

Car Share

Government Levies

GVS & DD Sewer Levy - Strata Apartment

GVS & DD Sewer Levy - Townhouse

GVS & DD Sewer Levy - Rental Residential

GVS & DD Sewer Levy - Commercial TransLink - Strata Apartment Residential

TransLink - Townhouse

TransLink - Rental Residential

TransLink - Commercial

Market Strata Apartment DCCs

Market Townhouse DCCs

Rental 1 Residential DCCs

Rental 2 Residential DCCs

Rental 3 Residential DCCs

Retail DCCs

Office DCCs

School Site Acquisition Charge

Financing

Interim financing Financing charged on

Financing fees

Commissions and Marketing

Commissions on Strata Residential

Marketing on Strata Residential Commissions on Sale of Commercial

Commission on Sale of Rental Units

Initial Lease Up Costs on Rental 1 Units

Initial Lease Up Costs on Rental 2 Units

Initial Lease Up Costs on Rental 3 Units

Leasing Commissions on Commercial Space

Tenant Improvement Allowance on Retail Space

Tenant Improvement Allowance on Office Space

Other Costs and Allowances

Net GST on Market and Below Market Rental Units

Net GST on Social Housing Units

Property Taxes

Assumed current assessment (Year 1 of analysis)

Assumed assessment after 1 year of construction (Year 2 of analysis: \$98,927,260 (50% of completed project value)

Developer's Profit

School Tax Surcharge During Development*

Residential Portion of current assessment (Year 1 of analysis)

Assumed residential portion of assessment after 1 year of constructio \$92,118,839 (50% of completed residential project value)

*Assumes BC Owner

\$0 per gross sq.ft. of residential area

\$300 per gross sq.ft. of rental residential area

\$0 per gross sq.ft. of rental residential area \$0 per gross sq.ft. of rental residential area

\$250 per gross sq.ft. of retail area

\$0 per gross sq.ft. of commercial area

\$55,000 per underground/structured parking stall

\$386 per gross sq.ft.

0% \$386

\$386

\$550,000 or \$396,000

396 stations

\$20 psf of site area on 50% of site

\$1,000 per station

\$0

8.5% of hard costs, landscaping and site prep/servicing costs 3.0% of hard costs, landscaping and site prep/servicing costs and soft costs

5.0% of hard, soft and management costs

\$0

\$1,072 per apartment unit

\$0 per townhouse unit

\$1,072 per unit

\$0.93 per sq.ft. of commercial space

\$1,200 per market unit

\$0 per market unit

\$1,200 per unit

\$1.25 per sq.ft. of commercial space

\$0.00 per sq.ft. of floorspace

\$0.306 per sq.ft. of floorspace

\$0.00 per sq.ft. of floorspace

\$600 per unit

5.0% assuming a

50% of land and

2.50 year construction period 75% of construction costs

1.5%

3.0% of gross strata market residential revenue

3.0% of gross strata market residential revenue

2.0% of gross commercial value

2.0% of value

\$3,000 per unit \$3,000 per unit

\$1,000 per unit

\$5.00 per sq.ft.

\$25.00 per sq.ft. \$50.00 per sq.ft.

5.00% of capitalized value of rental units

2.50% of development cost of new units (assumes rebate)

0.284% of assessed value

\$45,000,000

15.0% of total costs or

13.0% of gross market revenue/value

0.2% between \$3.0-\$4.0 0.4% over \$4.0 million \$45,000,000



Appendix 5 - Burnaby Exhibit 6 Continued:

Revenue	
Strata Sales Revenue	\$0
Rental 1 Value Rental 2 Value	\$184,237,677 \$0
Rental 3 Value	\$0
Gross Retail Value	\$13,616,842
Gross Office Value	\$0
Total Gross Value Less Commissions on Strata	\$197,854,520 \$0
Less Commissions on Rental	\$3,684,754
Less Commissions on Commercial	\$272,337
Net Sales Revenue/Value	\$193,897,429
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings Allowance for Remediation	\$500,000 \$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$945,122
Electrical Charging Station Density Bonus Contribution	\$396,000 \$0
Rezoning Costs	\$500,000
Hard Construction Costs	\$112,420,000
Site Landscaping	\$550,000
Electrical Charging Station Other	\$396,000
Soft costs and Professional Fees	\$0 \$9,792,605
Development management	\$3,749,992
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs Car Share	\$6,462,486 \$0
Marketing on Strata Units	\$0 \$0
Initial Lease Up Costs on Rental 1 Units	\$1,188,000
Initial Lease Up Costs on Rental 2 Units	\$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space Tenant Improvement Allowance on Retail Space	\$82,500 \$412,500
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment	\$0
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Lewy - Rental Residential GVS & DD Sewer Lewy - Commercial	\$424,512 \$15,345
TransLink - Strata Apartment Residential	\$0
TransLink - Townhouse	\$0
TransLink - Rental Residential TransLink - Commercial	\$475,200
Market Strata Apartment DCCs	\$20,625 \$0
Market Townhouse DCCs	\$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs Retail DCCs	\$0 \$5,049
Office DCCs	\$0
School Site Acquisition Charge	\$237,600
Less property tax allowance during approvals/development	\$613,022
Less School Tax Surcharge During Development Interim financing on construction costs	\$780,713 \$6,524,370
Financing fees/costs	\$1,648,031
Less Net GST (assuming builder holds units)	\$9,211,884
Total Project Costs Before Land	\$157,351,556
Developer's Profit	\$25,800,229
Residual to Land and Land Carry	\$10,745,644
Less financing on land during construction and approvals	\$717,272
Less financing fee on land loan	\$67,692
Less property closing costs Residual Land Value	\$398,632 \$9,562,048
Residual Value per sq.ft. of site Residual Value per sq.ft. of FSR	\$174 \$33
Residual Value per sq.ft. of gross buildable floorspace	\$33



Appendix 5 - Burnaby Exhibit 6 Continued:

Retail Assumptions

Lease Rate NNN\$40.00 psf per yearMonthly Parking Revenue (net of costs)\$0 per monthVacancy and Non Recoverable Allowance2.00%Capitalization Rate4.75%

Capitalized Value per 1000 SF Gross

 Rental Rev
 \$40,000

 Parking
 \$0

 Total
 \$40,000

 Vacancy
 \$800

 NOI
 \$39,200

 Capitalized Value
 \$825,263

 Value psf of net leasable space
 \$825.26 psf

Rental 1

Assumptions			Market		Rent	
Unit Type	# Units		Size	re	rent/month	
Studios	80	20%	450	\$	1,550	
1-Bedroom	196	49%	550	\$	1,750	
2-Bedroom	120	30%	750	\$	2,450	
3-Bedroom	0	0%	0	\$	-	
Total	396	100%		1		
Average			590	\$	1,922	
				\$	3.25	
Annual Revenue						
Studios				\$	1,488,000	
1-Bedroom		***************************************	***************************************	\$	4,116,000	
2-Bedroom				\$	3,528,000	
3-Bedroom				\$	-	
TOTAL				\$	9,132,000	

Rental 1 Revenue and Operating Cost Assumptions

Capitalization Rate for Rental Apartment Space

Rental Rate Per Month \$3.25 psf per month or \$1,922 per unit per month

Monthly Parking Revenue \$100 per month

Monthly Storage Revenue \$40 per month on 50% of units

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$4,450 per unit per year

4.00%

Operating costs for New Rental Units
Property Tax Allowance

Residential Assessment (upon completion of new building)
Residential Tax Rate
Residential Property Taxes

\$183,493,750 (see capitalized value below)
0.284%

\$521,031

Capitalized Value

Rental Revnue \$9,132,000 \$523,200 Parking \$95,040 Storage \$9,750,240 Total Vacancy \$97,502 \$9,652,738 Net Op Costs \$1,762,200 Taxes \$521,031 NOI \$7,369,507 Capitalized Value \$184,237,677 psf of rentable space \$788



Appendix 6 - Surrey Exhibit 1:

Estimated Income Value Assuming Property is Improved with Old Low Density Commercial Buildings

Major Assumptions

Site and Building Size					
Existing Zoning	C-8				
Site Size	45,000	sq.ft. or	160	by	281
Assumed Density	0.40	FSR			
Retail	18,000	sq.ft.	100%	rentable	

Revenue and Value

Average Lease Rate for Retail Space	\$22.50	per sq.ft. net, base building
Capitalization Rate	4.75%	
Value of Retail and Service Space Upon Lease-up	\$474	per sq.ft. of leasable area
Vacancy and non recoverables	0%	

Estimated Overall Value

Capitalized Value of Retail/Service Space	\$8,526,316
Total Value of Commercial	\$8,526,316

Appendix 6 - Surrey Exhibit 2:

Estimated Income Value of Property if Improved with an Older Low Density Rental Building

Rental Apartment Value				
Site Size (SF)	45,000			
Assumed FSR	0.8			
Total Floor Area (SF)	33,750			
Average Gross Unit Size (SF)	850			
Number of Units	40			
Market Value Per Unit ¹	\$200,000			
Value of Rental	\$8,000,000			

¹Based on recent market transactions.

Appendix 6 – Surrey Exhibit 3:

Estimated Existing Value of Site if Improved with Older Single Family Houses

Single Family Assembly Value					
Site Size (SF)	45,000				
Value Per SF of					
Site	\$110				
Total Value	\$4,950,000				



Appendix 6 – Surrey Exhibit 4:

Land Residual Estimate for Wood Frame Strata Development - No Rental Replacement Assume 2.5 FAR (OCP Density)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

45,000 sq.ft. Gross Parcel Size Dedications 0 sq.ft. Site Size 45,000 sq.ft. or Site Frontage 160 ft Base Density 2.5 FAR Bonus Density Total Density 0.0 FAR 2.5 FAR Total Gross floorspace 112,500 sq.ft. Gross residential floorspace 112,500 sq.ft. Gross commercial floorspace 0 sq.ft.

						Parking Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share	of Units
Strata Residential	112,500	85%	95,625	715	134	1.3	174	100
Rental 1	0	85%	0	619	0	1.3	0	0
Rental 2	0	85%	0	565	0	0.6	0	0
Rental 3	0	85%	0	565	0	0.5	0	0
Retail	0	100%	0	n/a	n/a	3.00	0 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	112,500		95,625		134		174	100

Revenue/Value Strata Residential \$630 per net square foot Rental 1 \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) Rental 2 Rental 3 Retail \$0 per net square foot including parking revenue (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations) Office

\$350.000

Pre Construction Costs

Rezoning Costs

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings Allowance for Remediation Site Preparation/Fill Standard Site Servicing Community Amenity Contribution Residential Affordable Housing Contribution Public Art Contribution (Allowance) Undergrounding Utilities Community Amenity Contribution Non-Residential

\$0 \$5,000 per lineal metre of frontage \$243,902 \$1,668 per unit on average \$1,000 per strata unit \$1.24 psf of gross building

\$1.74 psf of gross building \$0.00 psf of site area

*ask about non residential

1.03 acre



100%

0% 0%

100%

Appendix 6 - Surrey Exhibit 4 Continued:

Appendix o - buriey Exhibit + bolitilided.				
Construction Costs				
Hard Construction Costs				
Market Strata Residential Area		per gross sq.ft. o		
Rental 1 Residential Area			f rental residential area	
Rental 2 Residential Area			f rental residential area	
Rental 3 Residential Area		per gross sq.π. o per gross sq.ft. o	f rental residential area	
Retail Area (shell space - no Tl) Office Area (shell space - no Tl)			f commercial area	
Cost Per Garage/Underground Parking Stall			structured parking stall	
Overall Costs Per Square Foot		per gross sq.ft.	otractarea parking stair	
Sustainability Premium	0%	,		
Total Estimated Cost per Square Foot	\$245			
Hard Cost Used in Analysis	\$245			
Site Landscaping	\$450,000	or	\$20 psf of site area on 50% of site	
Electrical Charging Station	\$0		- stations \$0 per stati	ion
Other	\$0			
Soft costs and Professional Fees			ndscaping and site prep/servicing costs	
Development management	3.0%	of nard costs, lar	ndscaping and site prep/servicing costs and soft costs	
Fees, legal and survey for rental portion Contingency on hard and soft costs		of hard, soft and	management costs	
Car Share	\$0	oi naiu, soit and	management costs	
our official	Ψ			
Government Levies				
GVS & DD Sewer Levy - Strata Apartment	\$3,530	per apartment un	it	
GVS & DD Sewer Levy - Townhouse	\$0	per townhouse un	nit	
GVS & DD Sewer Levy - Rental Residential	\$3,530	per unit		
GVS & DD Sewer Levy - Commercial		per sq.ft. of com	mercial space	
TransLink - Strata Apartment Residential		per market unit		
TransLink - Townhouse		per market unit		
TransLink - Rental Residential		per unit	manaial acces	
TransLink - Commercial Market Strata Apartment DCCs		per sq.ft. of com	· · · · · · · · · · · · · · · · · · ·	
Market Townhouse DCCs		per sq.ft. of floors per sq.ft. of floors	·	
Rental 1 Residential DCCs		per sq.ft. of floors	•	
Rental 2 Residential DCCs		per sq.ft. of floors		
Rental 3 Residential DCCs		per sq.ft. of floors	·	
Retail DCCs		per sq.ft. of floors	·	
Office DCCs		per sq.ft. of floors		
School Site Acquisition Charge	\$600	per unit		
Financing				
Interim financing		assuming a	1.75 year construction period	
Financing charged on		of land and	75% of construction costs	
Financing fees	1.5%			
Commissions and Marketing				
•	2.00/	of arosa strata ma	arket regidential reconce	
Commissions on Strata Residential Marketing on Strata Residential		-	arket residential revenue arket residential revenue	
Commissions on Sale of Commercial		of gross commer		
Commission on Sale of Rental Units		of value	ciai value	
Initial Lease Up Costs on Rental 1 Units		per unit		
Initial Lease Up Costs on Rental 2 Units		per unit		
Initial Lease Up Costs on Rental 3 Units		per unit		
Leasing Commissions on Commercial Space	\$5.00	per sq.ft.		
Tenant Improvement Allowance on Retail Space	\$25.00	per sq.ft.		
Tenant Improvement Allowance on Office Space	\$50.00	per sq.ft.		
Other Control Alleman				
Other Costs and Allowances	E 000/	of conitalized : =1:	us of rental units	
Net GST on Market and Below Market Rental Units		of capitalized value		
Net GST on Social Housing Units			ost of new units (assumes rebate)	
Property Taxes Assumed current assessment (Year 1 of analysis)		of assessed valu	U	
Assumed current assessment (Year 1 of analysis) Assumed assessment after 1 year of construction (Year 2 of analysis	\$21,286,121 \$30,121,875	(50% of complete	ed project value)	
Developer's Profit		of total costs or	13.0% of gross market revenue/value	
	10.076	J. 10101 00010 01	or group market revenues value	
School Tax Surcharge During Development*				
Tax Rate	0.2%	between \$3.0-\$4.	0.4% over \$4.0 million	



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$30,121,875 (50% of completed residential project value)

Appendix 6 - Surrey Exhibit 4 Continued:

Revenue	
Strata Sales Revenue	\$60,243,750
Rental 1 Value	\$0
Rental 2 Value	\$0
Rental 3 Value Gross Retail Value	\$0 \$0
Gross Office Value	\$0
Total Gross Value	\$60,243,750
Less Commissions on Strata	\$1,807,313
Less Commissions on Rental	\$0
Less Commissions on Commercial Net Sales Revenue/Value	\$0 \$58,436,438
Net Sales Revenue/ Value	\$30,430,430
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings Allowance for Remediation	\$350,000 \$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$243,902
Electrical Charging Station	\$0
Community Amenity Contribution Residential Affordable Housing Contribution	\$223,562 \$134,000
Public Art Contribution (Allowance)	\$139,838
Undergrounding Utilities	\$195,750
Community Amenity Contribution Non-Residential	\$0
Rezoning Costs	\$500,000
Hard Construction Costs	\$27,517,500
Site Landscaping Electrical Charging Station	\$450,000 \$0
Other	\$0
Soft costs and Professional Fees	\$2,499,387
Development management	\$957,118
Fees, legal and survey for rental portion	\$1,660,553
Contingency on hard and soft costs Car Share	\$1,660,553 \$0
Marketing on Strata Units	\$1,807,313
Initial Lease Up Costs on Rental 1 Units	\$0
Initial Lease Up Costs on Rental 2 Units	\$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space Tenant Improvement Allowance on Retail Space	\$0 \$0
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment	\$473,020
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Levy - Rental Residential	\$0 \$0
GVS & DD Sewer Levy - Commercial TransLink - Strata Apartment Residential	\$160,800
TransLink - Townhouse	\$0
TransLink - Rental Residential	\$0
TransLink - Commercial	\$0
Market Strata Apartment DCCs Market Townhouse DCCs	\$2,021,625 \$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs	\$0
Retail DCCs	\$0
Office DCCs School Site Acquisition Charge	\$0 \$80,400
Less property tax allowance during approvals/development	\$177.945
Less School Tax Surcharge During Development	\$79,866
Interim financing on construction costs	\$1,299,136
Financing fees/costs	\$460,932
Less Net GST (assuming builder holds units) Total Project Costs Before Land	\$0 \$41,432,646
Total 1 Tojost Goots Boloro Edita	\$*1,10 <u>2,</u> 010
Developer's Profit	\$7,855,785
Residual to Land and Land Carry	\$9,148,006
Less financing on land during construction and approvals	\$457,972
Less financing fee on land loan	\$58,658
Less property closing costs	\$335,490
Residual Land Value	\$8,295,886
Residual Value per sq.ft. of site	\$184
Residual Value per sq.ft. of FSR	\$74
Residual Value per sq.ft. of gross buildable floorspace	\$74



Appendix 6 - Surrey Exhibit 5:

Land Residual Estimate for Wood Frame Rental Development - No Rental Replacement Assume 2.5 FAR (OCP Density)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and	Building	Size
----------	----------	------

Gross Parcel Size Dedications Site Size Site Frontage Base Density Bonus Density Total Density Total Gross floorspace	45.000	
Site Size Site Frontage Base Density Bonus Density Total Density	45,000	sq.ft.
Site Frontage Base Density Bonus Density Total Density	0	sq.ft.
Base Density Bonus Density Total Density	45,000	sq.ft.
Bonus Density Total Density	160	ft
Total Density	2.5	FAR
,	0.0	FAR
Total Gross floorspace	2.5	FAR
	112,500	sq.ft.
Gross residential floorspace	112,500	sq.ft.
Gross commercial floorspace	0	sq.ft.

						Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share	of Units
Strata Residential	0	85%	0	650	0	1.3	0	0%
Rental 1	112,500	85%	95,625	593	161	1.3	209	100%
Rental 2	0	85%	0	565	0	0.6	0	0%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	0	100%	0	n/a	n/a	3.00	0 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	112,500		95,625		161		209	100%

\$0 per net square foot

Rental 1	
Rental 2	
Rental 3	
Deteil	

Retail Office

Revenue/Value Strata Residential

Pre Construction Costs

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings Allowance for Remediation Site Preparation/Fill Standard Site Servicing Community Amenity Contribution Residential Affordable Housing Contribution Public Art Contribution (Allowance) Undergrounding Utilities

Undergrounding Utilities Community Amenity Contribution Non-Residential Rezoning Costs

\$582	per	net	square	foot	(see separate calculations)
\$0	per	net	square	foot	(see separate calculations)
\$0	per	net	square	foot	(see separate calculations)
\$0	per	net	square	foot	including parking revenue (see separate calculations)
\$0	per	net	square	foot	including parking revenue (see separate calculations)

1.03 acre

Parking

\$0 \$0 \$350,000 \$0 \$0 \$243,902

\$5,000 per lineal metre of frontage

\$1,668 per unit on average \$1,000 per strata unit \$1.26 psf of gross building \$1.74 psf of gross building \$0.00 psf of site area



Appendix 6 - Surrey Exhibit 5 Continued:

••			
Construction Costs			
Hard Construction Costs			
Market Strata Residential Area	\$0	per gross sq.ft. o	f residential area
Rental 1 Residential Area	\$165	per gross sq.ft. o	f rental residential area
Rental 2 Residential Area			f rental residential area
Rental 3 Residential Area			f rental residential area
Retail Area (shell space - no TI)		per gross sq.ft. o	
Office Area (shell space - no TI)			f commercial area
Cost Per Garage/Underground Parking Stall			structured parking stall
Overall Costs Per Square Foot		per gross sq.ft.	
Sustainability Premium	0% \$249		
Total Estimated Cost per Square Foot Hard Cost Used in Analysis	\$249		
Site Landscaping	\$450,000		\$20 psf of site area on 50% of site
Electrical Charging Station	\$430,000		- stations \$0 per station
Other	\$0		- stations — — — — — — — — — — — — — — — — — — —
Soft costs and Professional Fees			ndscaping and site prep/servicing costs
Development management			ndscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0		
Contingency on hard and soft costs	5.0%	of hard, soft and	management costs
Car Share	\$0		·
Government Levies			
GVS & DD Sewer Levy - Strata Apartment		per apartment un	
GVS & DD Sewer Levy - Townhouse		per townhouse u	nit
GVS & DD Sewer Lew - Rental Residential		per unit	
GVS & DD Sewer Levy - Commercial		per sq.ft. of com	mercial space
TransLink - Strata Apartment Residential		per market unit	
TransLink - Townhouse		per market unit	
TransLink - Rental Residential TransLink - Commercial		per unit per sq.ft. of com	marrial apace
Market Strata Apartment DCCs		per sq.ft. of floors	
Market Townhouse DCCs		per sq.ft. of floors	
Rental 1 Residential DCCs		per sq.ft. of floors	
Rental 2 Residential DCCs		per sq.ft. of floors	
Rental 3 Residential DCCs		per sq.ft. of floors	
Retail DCCs		per sq.ft. of floors	
Office DCCs		per sq.ft. of floors	
School Site Acquisition Charge		per unit	Page
3		,	
Financing			
Interim financing	5.0%	assuming a	1.75 year construction period
Financing charged on	50%	of land and	75% of construction costs
Financing fees	1.5%		
Commissions and Marketing			
Commissions on Strata Residential			arket residential revenue
Marketing on Strata Residential			arket residential revenue
Commissions on Sale of Commercial		of gross commer	cial value
Commission on Sale of Rental Units		of value	
Initial Lease Up Costs on Rental 1 Units		per unit	
Initial Lease Up Costs on Rental 2 Units		per unit	
Initial Lease Up Costs on Rental 3 Units		per unit	
Leasing Commissions on Commercial Space		per sq.ft.	
Tenant Improvement Allowance on Retail Space		per sq.ft.	
Tenant Improvement Allowance on Office Space	\$50.00	per sq.ft.	
Other Costs and Allowances			
Net GST on Market and Below Market Rental Units	3.60%	of capitalized val	ue of rental units
Net GST on Social Housing Units			ost of new units (assumes rebate)
Property Taxes		of assessed valu	
Assumed current assessment (Year 1 of analysis)	\$21,286,121		~
Assumed assessment after 1 year of construction (Year 2 of analysis		(50% of complete	ed project value)
Developer's Profit		of total costs or	

School Tax Surcharge During Development*

0.2% between \$3.0-\$4.0 0.4% over \$4.0 million

Residential Portion of current assessment (Year 1 of analysis)

Assumed residential portion of assessment after 1 year of constructio

\$27,823,087 (50% of completed residential project value)

*Assumes BC Owner



Appendix 6 - Surrey Exhibit 5 Continued:

Revenue	
Strata Sales Revenue	\$0
Rental 1 Value Rental 2 Value	\$55,646,175 \$0
Rental 3 Value	\$0
Gross Retail Value	\$0
Gross Office Value Total Gross Value	\$0 \$55,646,175
Less Commissions on Strata	\$0
Less Commissions on Rental Less Commissions on Commercial	\$1,112,923 \$0
Net Sales Revenue/Value	\$54,533,251
P. 1. 1. 2. 1.	
Project Costs Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings Allowance for Remediation	\$350,000 \$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$243,902
Electrical Charging Station Community Amenity Contribution Residential	\$0 \$268,608
Affordable Housing Contribution	\$0
Public Art Contribution (Allowance)	\$142,088
Undergrounding Utilities Community Amenity Contribution Non-Residential	\$195,750 \$0
Rezoning Costs	\$500,000
Hard Construction Costs Site Landscaping	\$27,967,500 \$450,000
Electrical Charging Station	\$430,000
Other	\$0
Soft costs and Professional Fees Development management	\$2,530,267 \$968,943
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs Car Share	\$1,680,853
Marketing on Strata Units	\$0 \$0
Initial Lease Up Costs on Rental 1 Units	\$483,000
Initial Lease Up Costs on Rental 2 Units Initial Lease Up Costs on Rental 3 Units	\$0 \$0
Leasing Commissions on Commercial Space	\$0
Tenant Improvement Allowance on Retail Space	\$0
Tenant Improvement Allowance on Office Space GVS & DD Sewer Levy - Strata Apartment	\$0 \$0
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Levy - Rental Residential GVS & DD Sewer Levy - Commercial	\$568,330 \$0
TransLink - Strata Apartment Residential	\$0
TransLink - Townhouse	\$0
TransLink - Rental Residential TransLink - Commercial	\$193,200 \$0
Market Strata Apartment DCCs	\$0
Market Townhouse DCCs	\$0
Rental 1 Residential DCCs Rental 2 Residential DCCs	\$2,021,625 \$0
Rental 3 Residential DCCs	\$0
Retail DCCs Office DCCs	\$0 \$0
School Site Acquisition Charge	\$96,600
Less property tax allowance during approvals/development	\$172,318
Less School Tax Surcharge During Development Interim financing on construction costs	\$72,969 \$1,274,207
Financing fees/costs	\$452,027
Less Net GST (assuming builder holds units)	\$2,003,262
Total Project Costs Before Land	\$42,635,450
Developer's Profit	\$7,256,261
Residual to Land and Land Carry	\$4,641,540
Less financing on land during construction and approvals	\$232,367
Less financing fee on land loan Less property closing costs	\$29,762 \$133,522
Residual Land Value	\$4,245,889
Residual Value per sq.ft. of site	\$94
Residual Value per sq.ft. of FSR	\$38
Residual Value per sq.ft. of gross buildable floorspace	\$38



Appendix 6 - Surrey Exhibit 5 Continued:

Rental 1

Assumptions			Market		Rent
Unit Type	# Units		Size	re	ent/month
Studios	31	19%	450	\$	1,300
1-Bedroom	80	50%	550	\$	1,450
2-Bedroom	50	31%	750	\$	1,700
3-Bedroom	0	0%	0	\$	-
Total	161	100%			
Average			593	\$	1,499
				\$	2.53
Annual Revenue					
Studios				\$	483,600
1-Bedroom				\$	1,392,000
2-Bedroom				\$	1,020,000
3-Bedroom				\$	-
TOTAL				\$	2,895,600
				Γ	

Rental 1 Revenue and Operating Cost Assumptions

Capitalization Rate for Rental Apartment Space

Rental Rate Per Month \$2.53 psf per month or \$1,499 per unit per month

Monthly Parking Revenue \$75 per month

Monthly Storage Revenue \$40 per month on 50% of units

Vacancy and Non Recoverable Allowance 1.00%

4.00%

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$4,250 per unit per year

Property Tax Allowance

Residential Assessment (upon completion of new building)
Residential Tax Rate
Residential Property Taxes

\$55,462,500 (see capitalized value below)

\$181,020

Capitalized Value

Rental Revenue \$2,895,600 Parking \$188,100 Storage \$38,640 Total \$3,122,340 Vacancy \$31,223 \$3,091,117 Op Costs \$684,250 Taxes \$181,020 NOI \$2,225,847 \$55,646,175 Capitalized Value psf of rentable space \$582



Appendix 6 - Surrey Exhibit 6:

Land Residual Estimate for Wood Frame Strata Development Assume 2.5 FAR (OCP Density) - With Rental Replacement Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	45,000	sq.ft.
Dedications	0	sq.ft.
Site Size	45,000	sq.ft
Site Frontage	160	ft
Base Density	2.5	FAR
Bonus Density	0.0	FAR
Total Density	2.5	FAR
Total Gross floorspace	112,500	sq.ft.
Gross residential floorspace	112,500	sq.ft
Gross commercial floorspace	0	sq.ft.

Gross commercial noorspace	0 34	.16.						
						Parking Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share	of Units
Strata Residential	87,500	85%	74,375	715	104	1.3	135	72%
Rental 1	0	85%	0	585	0	1.3	0	0%
Rental 2	25,000	85%	21,250	532	40	1.3	52	28%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	0	100%	0	n/a	n/a	3.00	0 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	112,500		95,625		144		187	100%

Revenue/Value	
Strata Residential	
Rental 1	
Rental 2	
Rental 3	
Retail	
Office	

Pre Construction Costs Upfront Compensation to Existing Tenants Tenant Relocation

Allowance for Demolition of Existing Buildings

Allowance for Remediation Site Preparation/Fill Standard Site Servicing

Community Amenity Contribution Residential

Affordable Housing Contribution Public Art Contribution (Allowance) Undergrounding Utilities

Community Amenity Contribution Non-Residential

Rezoning Costs

\$630	per net square foot
\$0	per net square foot (see separate calculations)
\$306	per net square foot (see separate calculations)
\$0	per net square foot (see separate calculations)
\$0	per net square foot including parking revenue (see separate calculations)
\$0	per net square foot including parking revenue (see separate calculations)

\$116,293 \$350,000 \$0 \$243,902

\$5,000 per lineal metre of frontage

1.03 acre

\$1,668 per unit on average \$1,000 per strata unit \$1.26 psf of gross building \$1.74 psf of gross building \$0.00 psf of site area



Appendix 6 - Surrey Exhibit 6 Continued:

Appendix 0 - Carrey Exhibit 0 Continued.		
Construction Costs		
Hard Construction Costs		
Market Strata Residential Area		per gross sq.ft. of residential area
Rental 1 Residential Area		per gross sq.ft. of rental residential area
Rental 2 Residential Area		per gross sq.ft. of rental residential area
Rental 3 Residential Area		per gross sq.ft. of rental residential area
Retail Area (shell space - no TI)		per gross sq.ft. of retail area
Office Area (shell space - no TI)		per gross sq.ft. of commercial area
Cost Per Garage/Underground Parking Stall Overall Costs Per Square Foot		per underground/structured parking stall per gross sq.ft.
Sustainability Premium	0%	
Total Estimated Cost per Square Foot	\$248	
Hard Cost Used in Analysis	\$248	
Site Landscaping	\$450,000	
Electrical Charging Station	\$0	- stations \$0 per station
Other	\$0	
Soft costs and Professional Fees	8.5%	of hard costs, landscaping and site prep/servicing costs
Development management	3.0%	of hard costs, landscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0	
Contingency on hard and soft costs	5.0%	of hard, soft and management costs
Car Share	\$0	
O		
Government Levies	ê0 E00	
GVS & DD Sewer Levy - Strata Apartment		per apartment unit per townhouse unit
GVS & DD Sewer Levy - Townhouse GVS & DD Sewer Lew - Rental Residential		per townhouse unit
GVS & DD Sewer Levy - Commercial		per sq.ft. of commercial space
TransLink - Strata Apartment Residential		per market unit
TransLink - Townhouse		per market unit
TransLink - Rental Residential		per unit
TransLink - Commercial		per sq.ft. of commercial space
Market Strata Apartment DCCs		per sq.ft. of floorspace
Market Townhouse DCCs		per sq.ft. of floorspace
Rental 1 Residential DCCs		per sq.ft. of floorspace
Rental 2 Residential DCCs		per sq.ft. of floorspace
Rental 3 Residential DCCs		per sq.ft. of floorspace
Retail DCCs		per sq.ft. of floorspace
Office DCCs		per sq.ft. of floorspace
School Site Acquisition Charge	\$600	per unit
Flores Inc.		
Financing Interim financing	5.0%	assuming a 1.75 year construction period
Financing charged on		of land and 75% of construction costs
Financing charged on	1.5%	of faild and 75% of construction costs
I mailting lets	1.5/0	
Commissions and Marketing		
Commissions on Strata Residential	3.0%	of gross strata market residential revenue
Marketing on Strata Residential		of gross strata market residential revenue
Commissions on Sale of Commercial		of gross commercial value
Commission on Sale of Rental Units	2.0%	of value
Initial Lease Up Costs on Rental 1 Units		per unit
Initial Lease Up Costs on Rental 2 Units	\$2,000	per unit
Initial Lease Up Costs on Rental 3 Units		per unit
Leasing Commissions on Commercial Space	\$5.00	per sq.ft.
Tenant Improvement Allowance on Retail Space	\$25.00	per sq.ft.
Tenant Improvement Allowance on Office Space	\$50.00	per sq.ft.
Other Costs and Allowances		
Net GST on Market and Below Market Rental Units	5.00%	of capitalized value of rental units
Net GST on Social Housing Units		of development cost of new units (assumes rebate)
Property Taxes		of development cost of new units (assumes repare) of assessed value
Assumed current assessment (Year 1 of analysis)	\$21,286,121	or assessed value
Assumed current assessment (Year 1 or analysis) Assumed assessment after 1 year of construction (Year 2 of analysis		(50% of completed project value)
Developer's Profit		of total costs or 13.0% of gross market revenue/value
School Tax Surcharge During Development*		
Tax Rate		between \$3.0-\$4.0
Residential Portion of current assessment (Year 1 of analysis)	\$0	



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$26,679,776 (50% of completed residential project value)

Appendix 6 - Surrey Exhibit 6 Continued:

Revenue	
Strata Sales Revenue	\$46,856,250
Rental 1 Value	\$0
Rental 2 Value Rental 3 Value	\$6,503,302 \$0
Gross Retail Value	\$0
Gross Office Value	\$0
Total Gross Value Less Commissions on Strata	\$53,359,552 \$1,405,688
Less Commissions on Rental	\$130,066
Less Commissions on Commercial	\$0
Net Sales Revenue/Value	\$51,823,798
Project Costs	
Upfront Compensation to Existing Tenants	\$116,293
Tenant Relocation Allowance for Demolition of Existing Buildings	\$0 \$350,000
Allowance for Remediation	\$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$243,902
Electrical Charging Station Community Amenity Contribution Residential	\$0 \$240,246
Affordable Housing Contribution	\$104,000
Public Art Contribution (Allowance)	\$141,513
Undergrounding Utilities	\$195,750
Community Amenity Contribution Non-Residential Rezoning Costs	\$0 \$500,000
Hard Construction Costs	\$27,852,500
Site Landscaping	\$450,000
Electrical Charging Station	\$0
Other Soft costs and Professional Fees	\$0 \$2,526,872
Development management	\$967,643
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	\$1,678,621
Car Share Marketing on Strata Units	\$0 \$1.405.699
Initial Lease Up Costs on Rental 1 Units	\$1,405,688 \$0
Initial Lease Up Costs on Rental 2 Units	\$80,000
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space	\$0
Tenant Improvement Allowance on Retail Space Tenant Improvement Allowance on Office Space	\$0 \$0
GVS & DD Sewer Levy - Strata Apartment	\$367,120
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Levy - Rental Residential	\$141,200
GVS & DD Sewer Levy - Commercial TransLink - Strata Apartment Residential	\$0 \$124,800
TransLink - Townhouse	\$0
TransLink - Rental Residential	\$48,000
TransLink - Commercial	\$0
Market Strata Apartment DCCs Market Townhouse DCCs	\$1,572,375 \$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs	\$449,250
Rental 3 Residential DCCs	\$0
Retail DCCs Office DCCs	\$0 \$0
School Site Acquisition Charge	\$86,400
Less property tax allowance during approvals/development	\$169,520
Less School Tax Surcharge During Development	\$69,539
Interim financing on construction costs Financing fees/costs	\$1,306,321 \$463,360
Less Net GST (assuming builder holds units)	\$325,165
Total Project Costs Before Land	\$41,976,079
Developer's Profit	\$6,958,086
Residual to Land and Land Carry	\$2,889,634
Less financing on land during construction and approvals	\$144,662
Less financing fee on land loan Less property closing costs	\$18,529 \$55,006
Residual Land Value	\$2,671,437
Residual Value per sq.ft. of site	\$59
Residual Value per sq.ft. of SR	\$24
Residual Value per sq.ft. of gross buildable floorspace	\$24



Appendix 6 - Surrey Exhibit 6 Continued:

Rental 2

Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	10	25%	400	\$	697
1-Bedroom	18	45%	500	\$	880
2-Bedroom	12	30%	690	\$	1,036
3-Bedroom	0	0%	0	\$	-
Total	40	100%			
Average			532	\$	881
				\$	1.66
Annual Revenue					
Studios				\$	83,592
1-Bedroom				\$	190,123
2-Bedroom				\$	149,170
3-Bedroom				\$	-
TOTAL				\$	422,885

Rental 2 Revenue and Operating Cost Assumptions

Rental Rate Per Month \$1.66 psf per month or \$881 per unit per month

Monthly Parking Revenue \$50 per month

Monthly Storage Revenue \$40 per month on 50% of units

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$3,800 per unit per year

Property Tax Allowance

Residential Assessment (upon completion of new building) \$6,481,250 (see capitalized value below)
Residential Tax Rate 0.326%

Residential Property Taxes \$21,154
Capitalization Rate for Rental Apartment Space 4.25%

Capitalized Value

Rental Revenue \$422,885 Parking \$31,200 Storage \$12,480 Total \$454,085 Vacancy \$4,541 \$449,544 Op Costs \$152,000 Taxes \$21,154 NOI \$276,390 \$6,503,302 Capitalized Value \$306.04 psf of rentable space



Appendix 6 - Surrey Exhibit 7:

Land Residual Estimate for Wood Frame Rental Development
Assume 2.5 FAR (OCP Density) - With Rental Replacement
Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	45,000	sq.ft
Dedications	0	sq.ft
Site Size	45,000	sq.ft
Site Frontage	160	ft
Base Density	2.5	FAR
Bonus Density	0.0	FAR
Total Density	2.5	FAR
Total Gross floorspace	112,500	sq.ft
Gross residential floorspace	112,500	sq.ft
Gross commercial floorspace	0	sq.ft

						Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share of	of Units
Strata Residential	0	85%	0	650	0	1.3	0	0%
Rental 1	112,500	85%	95,625	593	161	1.3	209	80%
Rental 2	25,000	85%	21,250	532	40	1.3	52	20%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	0	100%	0	n/a	n/a	3.00	0 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	137,500		116,875		201		261	100%

\$605 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)

\$0 per net square foot

Rental 2
Rental 3
Retail
Office

Revenue/Value Strata Residential

Rental 1

Pre Construction Costs
Upfront Compensation to Existing Tenants

Tenant Relocation
Allowance for Demolition of Existing Buildings
Allowance for Remediation
Site Preparation/Fill
Standard Site Servicing
Community Amenity Contribution Residential
Affordable Housing Contribution
Public Art Contribution (Allowance)

Undergrounding Utilities
Community Amenity Contribution Non-Residential
Rezoning Costs

\$0 \$0 \$350,000 \$0 \$0 \$243,902

\$5,000 per lineal metre of frontage

\$0 per net square foot including parking revenue (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations)

1.03 acre

Parking

\$1,000 per strata unit \$1,27 psf of gross building \$1.74 psf of gross building \$0.00 psf of site area



Appendix 6 - Surrey Exhibit 7 Continued:

Appendix 0 - Carrey Exhibit 7 Continued.		
Construction Costs		
Hard Construction Costs		
Market Strata Residential Area		per gross sq.ft. of residential area
Rental 1 Residential Area		per gross sq.ft. of rental residential area
Rental 2 Residential Area		per gross sq.ft. of rental residential area
Rental 3 Residential Area		per gross sq.ft. of rental residential area
Retail Area (shell space - no TI)		per gross sq.ft. of retail area
Office Area (shell space - no TI)		per gross sq.ft. of commercial area
Cost Per Garage/Underground Parking Stall		per underground/structured parking stall
Overall Costs Per Square Foot		per gross sq.ft.
Sustainability Premium	0%	
Total Estimated Cost per Square Foot	\$250 \$250	
Hard Cost Used in Analysis	\$450,000	
Site Landscaping Electrical Charging Station	\$450,000	
Other	\$0	, , , , , , , , , , , , , , , , , , ,
Soft costs and Professional Fees		of hard costs, landscaping and site prep/servicing costs
Development management		of hard costs, landscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0	
Contingency on hard and soft costs		of hard, soft and management costs
Car Share	\$0	
our office	Ψ	
Government Levies		
GVS & DD Sewer Levy - Strata Apartment	\$3,530	per apartment unit
GVS & DD Sewer Levy - Townhouse		per townhouse unit
GVS & DD Sewer Levy - Rental Residential	\$3,530	per unit
GVS & DD Sewer Levy - Commercial	\$2.67	per sq.ft. of commercial space
TransLink - Strata Apartment Residential	\$1,200	per market unit
TransLink - Townhouse	\$0	per market unit
TransLink - Rental Residential	\$1,200	per unit
TransLink - Commercial	\$1.25	per sq.ft. of commercial space
Market Strata Apartment DCCs	\$17.97	per sq.ft. of floorspace
Market Townhouse DCCs	\$0.00	per sq.ft. of floorspace
Rental 1 Residential DCCs	\$17.97	per sq.ft. of floorspace
Rental 2 Residential DCCs	\$17.97	per sq.ft. of floorspace
Rental 3 Residential DCCs	\$17.97	per sq.ft. of floorspace
Retail DCCs	\$11.98	per sq.ft. of floorspace
Office DCCs	\$0.00	per sq.ft. of floorspace
School Site Acquisition Charge	\$600	per unit
Financing	=	The second secon
Interim financing		assuming a 1.75 year construction period
Financing charged on		of land and 75% of construction costs
Financing fees	1.5%	
Commissions and Marketing		
Commissions on Strata Residential		of gross strata market residential revenue
Marketing on Strata Residential		of gross strata market residential revenue
Commissions on Sale of Commercial		of gross commercial value
Commission on Sale of Rental Units		of value
Initial Lease Up Costs on Rental 1 Units		per unit
Initial Lease Up Costs on Rental 2 Units		per unit
Initial Lease Up Costs on Rental 3 Units		per unit
Leasing Commissions on Commercial Space		per sq.ft.
Tenant Improvement Allowance on Retail Space		per sq.ft.
Tenant Improvement Allowance on Office Space	\$50.00	per sq.ft.
Other Costs and Allowanees		
Other Costs and Allowances Net GST on Market and Below Market Rental Units	2.00%	of capitalized value of rental valte
		of capitalized value of rental units
Net GST on Social Housing Units		of development cost of new units (assumes rebate)
Property Taxes		of assessed value
Assumed current assessment (Year 1 of analysis)	\$21,286,121	/E09/, of completed project v=l······
Assumed assessment after 1 year of construction (Year 2 of analysis		(50% of completed project value)
Developer's Profit	15.0%	of total costs or 13.0% of gross market revenue/value
School Tax Surcharge During Development*		
Tax Rate	0.2%	between \$3.0-\$4.0
Residential Portion of current assessment (Year 1 of analysis)	\$0.2%	οιπουπ φυιό φτι



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$28,920,980 (50% of completed residential project value)

Appendix 6 - Surrey Exhibit 7 Continued:

Revenue	
Strata Sales Revenue	\$0
Rental 1 Value Rental 2 Value	\$57,841,960 \$0
Rental 3 Value	\$0
Gross Retail Value	\$0
Gross Office Value Total Gross Value	\$0 \$57,841,960
Less Commissions on Strata	\$0
Less Commissions on Rental Less Commissions on Commercial	\$1,156,839 \$0
Net Sales Revenue/Value	\$56,685,121
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation Allowance for Demolition of Existing Buildings	\$0 \$350,000
Allowance for Remediation	\$0
Site Preparation/Fill	\$0
Standard Site Servicing Electrical Charging Station	\$243,902 \$0
Community Amenity Contribution Residential	\$335,343
Affordable Housing Contribution Public Art Contribution (Allowance)	\$0 \$143,110
Undergrounding Utilities	\$195,750
Community Amenity Contribution Non-Residential	\$0
Rezoning Costs Hard Construction Costs	\$500,000 \$34,432,500
Site Landscaping	\$450,000
Electrical Charging Station	\$0
Other Soft costs and Professional Fees	\$0 \$3,085,551
Development management	\$1,181,585
Fees, legal and survey for rental portion Contingency on hard and soft costs	\$0 \$2,045,887
Car Share	\$0
Marketing on Strata Units	\$0
Initial Lease Up Costs on Rental 1 Units Initial Lease Up Costs on Rental 2 Units	\$483,000 \$80,000
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space Tenant Improvement Allowance on Retail Space	\$0 \$0
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Lewy - Strata Apartment	\$0
GVS & DD Sewer Levy - Townhouse GVS & DD Sewer Levy - Rental Residential	\$0 \$709,530
GVS & DD Sewer Levy - Commercial	\$0
TransLink - Strata Apartment Residential TransLink - Townhouse	\$0 \$0
TransLink - Rental Residential	\$241,200
TransLink - Commercial	\$0
Market Strata Apartment DCCs Market Townhouse DCCs	\$0 \$0
Rental 1 Residential DCCs	\$2,021,625
Rental 2 Residential DCCs	\$449,250
Rental 3 Residential DCCs Retail DCCs	\$0 \$0
Office DCCs	\$0
School Site Acquisition Charge Less property tax allowance during approvals/development	\$120,600 \$175,006
Less School Tax Surcharge During Development	\$76,263
Interim financing on construction costs	\$1,550,188
Financing fees/costs Less Net GST (assuming builder holds units)	\$549,791 \$2,082,311
Total Project Costs Before Land	\$51,502,392
Developer's Profit	\$7,542,592
Residual to Land and Land Carry	-\$2,359,863
Less financing on land during construction and approvals Less financing fee on land loan	-\$118,141 -\$15,132
Less financing fee on land loan Less property closing costs	-\$15,132 -\$180,263
Residual Land Value	-\$2,046,328
Residual Value per sq.ft. of site	-\$45
Residual Value per sq.ft. of FSR	-\$18 -\$18
Residual Value per sq.ft. of gross buildable floorspace	-\$18



Appendix 6 - Surrey Exhibit 7 Continued:

Rental 1					
Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	31	19%	450	\$	1,350
1-Bedroom	80	50%	550	\$	1,500
2-Bedroom	50	31%	750	\$	1,750
3-Bedroom	0	0%	0	\$	-
Total	161	100%			
Average			593	\$	1,549
				\$	2.61
Annual Revenue					
Studios				\$	502,200
1-Bedroom				\$	1,440,000
2-Bedroom				\$	1,050,000
3-Bedroom				\$	-
TOTAL				\$	2,992,200

Rental 1 Revenue and Operating Cost Assumptions Rental Rate Per Month

\$2.61 psf per month or \$1,549 per unit per month Monthly Parking Revenue \$75 per month 50% of units Monthly Storage Revenue Vacancy and Non Recoverable Allowance \$40 per month on 1.00% Operating costs for New Rental Units \$4,250 per unit per year

Property Tax Allowance Residential Assessment (upon completion of new building) \$57,853,125 (see capitalized value below) Residential Tax Rate 0.326%

Residential Property Taxes \$188.822 Capitalization Rate for Rental Apartment Space

Capitalized Value

Rental Revenue \$2,992,200 Parking \$188,100 \$38,640 Storage \$3,218,940 Vacancy \$32,189 \$3,186,751 Net Op Costs \$684,250 \$188.822 Taxes NOI \$2,313,678 Capitalized Value \$57,841,960 \$605 psf of rentable space

Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	10	25%	400	\$	697
1-Bedroom	18	45%	500	\$	880
2-Bedroom	12	30%	690	\$	1,036
3-Bedroom	0	0%	0	\$	-
Total	40	100%			
Average			532	\$	881
				\$	1.66
Annual Revenue					
Studios				\$	83,592
1-Bedroom				\$	190,123
2-Bedroom				\$	149,170
3-Bedroom				\$	-
				T	
TOTAL				\$	422,885

Rental 2 Revenue and Operating Cost Assumptions

Rental Rate Per Month \$1.66 psf per month or \$881 per unit per month Monthly Parking Revenue \$50 per month 50% of units \$40 per month on Monthly Storage Revenue Vacancy and Non Recoverable Allowance 1.00% Operating costs for New Rental Units \$3,800 per unit per year

Property Tax Allowance Residential Assessment (upon completion of new building) \$5,843,750 (see capitalized value below)

Residential Tax Rate Residential Property Taxes 0.326% \$19,073 Capitalization Rate for Rental Apartment Space

Capitalized Value

Rental Rev \$422,885 Parking \$31,200 \$800 Storage Total \$454.085 \$4.541 Vacancy \$449,544 Net Op Costs \$152,000 \$19.073 Taxes \$278,471 Capitalized Value \$6,552,259 \$308.34 psf of rentable space



Appendix 6 - Surrey Exhibit 8:

Land Residual Estimate for Concrete Strata Mixed Use Development - No Rental Replacement Assume 7.5 FAR (OCP Density)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and	Building	Size
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Gross Parcel Size	45,000	sq.ft.
Dedications	0	sq.ft.
Site Size	45,000	sq.ft. o
Site Frontage	160	ft
Base Density	7.5	FAR
Bonus Density	0.0	FAR
Total Density	7.5	FAR
Total Gross floorspace	337,500	sq.ft.
Gross residential floorspace	324,000	sq.ft.
Gross commercial floorspace	13,500	sq.ft.

						Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls Share of	f Units
Strata Residential	324,000	85%	275,400	650	424	1.3	551	100%
Rental 1	0	85%	0	619	0	1.3	0	0%
Rental 2	0	85%	0	565	0	0.6	0	0%
Rental 3	0	85%	0	565	0	0.5	0	0%
Retail	13,500	100%	13,500	n/a	n/a	3.00	38 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	337,500		288,900		424		589	100%

Rever	iue/V	alue	
O		4	

Strata Residential Rental 1 Rental 2 Rental 3 Retail Office

\$825 per net square foot \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$722 per net square foot including parking revenue (see separate calculations)
\$0 per net square foot including parking revenue (see separate calculations)

Pre Construction Costs

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings Allowance for Remediation Site Preparation/Fill Standard Site Servicing Community Amenity Contribution Residential

Affordable Housing Contribution Public Art Contribution (Allowance) Undergrounding Utilities Community Amenity Contribution Non-Residential Rezoning Costs

\$350,000 \$0 \$243,902

\$5,000 per lineal metre of frontage

1.03 acre

Parking

\$1,668 per unit on average \$1,000 per strata unit \$1.85 psf of gross building \$1.74 psf of gross building \$0.03 psf of site area



Appendix 6 - Surrey Exhibit 8 Continued:

, 4P		
Construction Costs		
Hard Construction Costs		
Market Strata Residential Area		per gross sq.ft. of residential area
Rental 1 Residential Area		per gross sq.ft. of rental residential area
Rental 2 Residential Area		per gross sq.ft. of rental residential area
Rental 3 Residential Area		per gross sq.ft. of rental residential area
Retail Area (shell space - no TI)		per gross sq.ft. of retail area
Office Area (shell space - no TI)		per gross sq.ft. of commercial area
Cost Per Garage/Underground Parking Stall		per underground/structured parking stall
Overall Costs Per Square Foot Sustainability Premium	0%	per gross sq.ft.
Total Estimated Cost per Square Foot	\$370	
Hard Cost Used in Analysis	\$370	
Site Landscaping	\$450,000	
Electrical Charging Station	\$0	
Other	\$0	70 pos otalion
Soft costs and Professional Fees		of hard costs, landscaping and site prep/servicing costs
Development management		of hard costs, landscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0	
Contingency on hard and soft costs	5.0%	of hard, soft and management costs
Car Share	\$0	
Government Levies		
GVS & DD Sewer Levy - Strata Apartment	\$3,530	per apartment unit
GVS & DD Sewer Levy - Townhouse		per townhouse unit
GVS & DD Sewer Levy - Rental Residential		per unit
GVS & DD Sewer Levy - Commercial		per sq.ft. of commercial space
TransLink - Strata Apartment Residential		per market unit
TransLink - Townhouse		per market unit
TransLink - Rental Residential		per unit
TransLink - Commercial		per sq.ft. of commercial space
Market Strata Apartment DCCs		per sq.ft. of floorspace
Market Townhouse DCCs		per sq.ft. of floorspace
Rental 1 Residential DCCs		per sq.ft. of floorspace
Rental 2 Residential DCCs		per sq.ft. of floorspace
Rental 3 Residential DCCs		per sq.ft. of floorspace
Retail DCCs		per sq.ft. of floorspace
Office DCCs		per sq.ft. of floorspace
School Site Acquisition Charge	\$600	per unit
Financing		
Interim financing	5.0%	assuming a 3.00 year construction period
Financing charged on		of land and 75% of construction costs
Financing fees	1.5%	
Commissions and Marketing		
Commissions on Strata Residential	3.0%	of gross strata market residential revenue
Marketing on Strata Residential		of gross strata market residential revenue
Commissions on Sale of Commercial		of gross commercial value
Commission on Sale of Rental Units		of value
Initial Lease Up Costs on Rental 1 Units	\$3,000	per unit
Initial Lease Up Costs on Rental 2 Units	\$2,000	per unit
Initial Lease Up Costs on Rental 3 Units		per unit
Leasing Commissions on Commercial Space	\$5.00	per sq.ft.
Tenant Improvement Allowance on Retail Space	\$25.00	per sq.ft.
Tenant Improvement Allowance on Office Space	\$50.00	per sq.ft.
Other Costs and Allowances	E 0601	-f!!
Net GST on Market and Below Market Rental Units		of capitalized value of rental units
Net GST on Social Housing Units		of development cost of new units (assumes rebate)
Property Taxes		of assessed value
Assumed current assessment (Year 1 of analysis)	\$21,286,121	/500/ -f
Assumed assessment after 1 year of construction (Year 2 of analysis		
Developer's Profit	15.0%	of total costs or 13.0% of gross market revenue/value
School Tay Surcharge During Development*		
School Tax Surcharge During Development* Tax Rate	0.2%	between \$3.0-\$4.1 0.4% over \$4.0 million
Residential Portion of current assessment (Year 1 of analysis)	\$0.2%	οιπουπ φοισφτί. σιστο στοι φσιο Πιιιιιστι



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$113,602,500 (50% of completed residential project value)

Appendix 6 - Surrey Exhibit 8 Continued:

Revenue	
Strata Sales Revenue	\$227,205,000
Rental 1 Value Rental 2 Value	\$0 \$0
Rental 3 Value	\$0
Gross Retail Value	\$9,748,421
Gross Office Value Total Gross Value	\$0 \$236,953,421
Less Commissions on Strata	\$6,816,150
Less Commissions on Rental Less Commissions on Commercial	\$0 \$194,968
Net Sales Revenue/Value	\$229,942,303
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings Allowance for Remediation	\$350,000 \$0
Site Preparation/Fill	\$0
Standard Site Servicing Electrical Charging Station	\$243,902 \$0
Community Amenity Contribution Residential	\$707,390
Affordable Housing Contribution	\$424,000
Public Art Contribution (Allowance) Undergrounding Utilities	\$625,925 \$587,250
Community Amenity Contribution Non-Residential	\$1,426
Rezoning Costs Hard Construction Costs	\$500,000
Site Landscaping	\$124,735,000 \$450,000
Electrical Charging Station	\$0
Other Soft costs and Professional Fees	\$0 \$10,903,366
Development management	\$4,175,348
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs Car Share	\$7,185,180 \$0
Marketing on Strata Units	\$6,816,150
Initial Lease Up Costs on Rental 1 Units Initial Lease Up Costs on Rental 2 Units	\$0 \$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space	\$67,500
Tenant Improvement Allowance on Retail Space Tenant Improvement Allowance on Office Space	\$337,500 \$0
GVS & DD Sewer Levy - Strata Apartment	\$1,496,720
GVS & DD Sewer Levy - Townhouse GVS & DD Sewer Levy - Rental Residential	\$0 \$0
GVS & DD Sewer Lewy - Commercial	\$36,045
TransLink - Strata Apartment Residential	\$508,800
TransLink - Townhouse TransLink - Rental Residential	\$0 \$0
TransLink - Commercial	\$16,875
Market Strata Apartment DCCs Market Townhouse DCCs	\$5,822,280
Rental 1 Residential DCCs	\$0 \$0
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs Retail DCCs	\$0 \$161,730
Office DCCs	\$0
School Site Acquisition Charge	\$254,400
Less property tax allowance during approvals/development Less School Tax Surcharge During Development	\$877,584 \$880,820
Interim financing on construction costs	\$9,409,746
Financing fees/costs Less Net GST (assuming builder holds units)	\$1,997,718 \$0
Total Project Costs Before Land	\$179,572,656
Developer's Profit	\$30,898,726
Residual to Land and Land Carry	\$19,470,920
Less financing on land during construction and approvals	\$1,516,298
Less financing fee on land loan Less property closing costs	\$121,194 \$772,588
Residual Land Value	\$17,060,841
Posidual Value per sq ft of site	\$270
Residual Value per sq.ft. of site Residual Value per sq.ft. of FSR	\$379 \$51
Residual Value per sq.ft. of gross buildable floorspace	\$51



Appendix 6 - Surrey Exhibit 8 Continued:

Retail Assumptions

Lease Rate NNN\$35.00 psf per yearMonthly Parking Revenue (net of costs)\$0 per monthVacancy and Non Recoverable Allowance2.00%Capitalization Rate4.75%

Capitalized Value per 1000 SF Gross

Rental Rev	\$35,000
Parking	\$0
Total	\$35,000
Vacancy	\$700
NOI	\$34,300
Capitalized Value	\$722,105
Value psf of net leasable space	\$722 psf



Appendix 6 - Surrey Exhibit 9:

Land Residual Estimate for Concrete Rental Mixed Use Development - No Rental Replacement Assume 7.5 FAR (OCP Density)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Siz	i Builaing Siz	Zξ
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Gross Parcel Size	45,000	ea ft
Dedications	0	sq.ft.
Site Size	45,000	sq.ft. c
Site Frontage	160	ft
Base Density	7.5	FAR
Bonus Density	0.0	FAR
Total Density	7.5	FAR
Total Gross floorspace	337,500	sq.ft.
Gross residential floorspace	324,000	sq.ft.
Gross commercial floorspace	13 500	sa fi

Concept	
Strata Residential	
Rental 1	
Rental 2	
Rental 3	
Retail	
Office	
Total	

					Stalls per		
		Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls	Share of Units
0	85%	0	650	0	1.3	0	0%
324,000	85%	275,400	591	466	1.3	606	100%
0	85%	0	565	0	0.6	0	0%
0	85%	0	565	0	0.5	0	0%
13,500	100%	13,500	n/a	n/a	3.00	38	n/a
0	95%	0	n/a	n/a	0.0	0 :	n/a
337,500		288,900		466		644	100%

Parking

1.03 acre

\$0 per net square foot
\$607 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations)
\$722 per net square foot including parking revenue (see separate calculations)
\$0 per net square foot including parking revenue (see separate calculations)

Pre Construction Costs Upfront Compensation to Existing Tenants

Tenant Relocation
Allowance for Demolition of Existing Buildings
Allowance for Remediation
Site Preparation/Fill
Standard Site Servicing
Community Amenity Contribution Residential
Affordable Housing Contribution
Public Art Contribution (Allowance)
Undergrounding Utilities
Community Amenity Contribution Non-Residential
Rezoning Costs

\$0 \$0 \$350,000 \$0 \$0 \$243,902 \$1,668 per unit on average

243,902 \$5,000 per lineal metre of frontage \$1,668 per unit on average \$1,000 per strata unit \$1.85 psf of gross building \$1.74 psf of gross building \$0.03 psf of site area



Appendix 6 - Surrey Exhibit 9 Continued:

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Construction Costs		
Hard Construction Costs		
Market Strata Residential Area		0 per gross sq.ft. of residential area
Rental 1 Residential Area		5 per gross sq.ft. of rental residential area
Rental 2 Residential Area Rental 3 Residential Area		0 per gross sq.ft. of rental residential area 0 per gross sq.ft. of rental residential area
Retail Area (shell space - no TI)		0 per gross sq.ft. of retail area 0 per gross sq.ft. of retail area
Office Area (shell space - no TI)		0 per gross sq.ft. of commercial area
Cost Per Garage/Underground Parking Stall		per underground/structured parking stall
Overall Costs Per Square Foot		9 per gross sq.ft.
Sustainability Premium	0%	
Total Estimated Cost per Square Foot	\$369	9
Hard Cost Used in Analysis	\$369	9
Site Landscaping	\$450,000	
Electrical Charging Station	\$0	
Other	\$0	
Soft costs and Professional Fees		6 of hard costs, landscaping and site prep/servicing costs
Development management		of hard costs, landscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0	
Contingency on hard and soft costs		6 of hard, soft and management costs
Car Share	\$0	0
Government Levies		
GVS & DD Sewer Lew - Strata Apartment	\$3,530	0 per apartment unit
GVS & DD Sewer Levy - Townhouse	\$0	per townhouse unit
GVS & DD Sewer Levy - Rental Residential	\$3,530	per unit
GVS & DD Sewer Levy - Commercial	\$2.67	7 per sq.ft. of commercial space
TransLink - Strata Apartment Residential	\$1,200	0 per market unit
TransLink - Townhouse	\$0	0 per market unit
TransLink - Rental Residential		0 per unit
TransLink - Commercial		5 per sq.ft. of commercial space
Market Strata Apartment DCCs		7 per sq.ft. of floorspace
Market Townhouse DCCs		0 per sq.ft. of floorspace
Rental 1 Residential DCCs		7 per sq.ft. of floorspace
Rental 2 Residential DCCs		7 per sq.ft. of floorspace
Rental 3 Residential DCCs Retail DCCs		7 per sq.ft. of floorspace
Office DCCs		8 per sq.ft. of floorspace 0 per sq.ft. of floorspace
School Site Acquisition Charge		0 per unit
contain the factorial contains	4000	
Financing		
Interim financing	5.0%	6 assuming a 3.00 year construction period
Financing charged on	50%	6 of land and 75% of construction costs
Financing fees	1.5%	6
Commissions and Marketing		
Commissions on Strata Residential		6 of gross strata market residential revenue
Marketing on Strata Residential		6 of gross strata market residential revenue
Commissions on Sale of Commercial		of gross commercial value
Commission on Sale of Rental Units		6 of value
Initial Lease Up Costs on Rental 1 Units		0 per unit
Initial Lease Up Costs on Rental 2 Units		0 per unit
Initial Lease Up Costs on Rental 3 Units Leasing Commissions on Commercial Space		0 per unit 0 per sq.ft.
Tenant Improvement Allowance on Retail Space		0 per sq.ft.
Tenant Improvement Allowance on Office Space		0 per sq.ft.
The second of th	400.00	The state of the s
Other Costs and Allowances		
Net GST on Market and Below Market Rental Units	3.60%	6 of capitalized value of rental units
Net GST on Social Housing Units	2.50%	6 of development cost of new units (assumes rebate)
Property Taxes	0.326%	6 of assessed value
Assumed current assessment (Year 1 of analysis)	\$21,286,121	1
Assumed assessment after 1 year of construction (Year 2 of analysis		2 (50% of completed project value)
Developer's Profit	15.0%	6 of total costs or 13.0% of gross market revenue/value
School Tay Surehama During Development		
School Tax Surcharge During Development*	0.20/	/ habitana \$2.0 \$4.0



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$83,551,471 (50% of completed residential project value)

Appendix 6 - Surrey Exhibit 9 Continued:

Revenue	
Strata Sales Revenue	\$0
Rental 1 Value	\$167,102,943
Rental 2 Value Rental 3 Value	\$0 \$0
Gross Retail Value	\$9,748,421
Gross Office Value	\$0
Total Gross Value Less Commissions on Strata	\$176,851,364 \$0
Less Commissions on Rental	\$3,342,059
Less Commissions on Commercial	\$194,968
Net Sales Revenue/Value	\$173,314,336
Project Costs	
Upfront Compensation to Existing Tenants Tenant Relocation	\$0 \$0
Allowance for Demolition of Existing Buildings	\$350,000
Allowance for Remediation	\$0
Site Preparation/Fill Standard Site Servicing	\$0 \$243,902
Electrical Charging Station	\$0
Community Amenity Contribution Residential	\$777,462
Affordable Housing Contribution Public Art Contribution (Allowance)	\$0 \$624,850
Undergrounding Utilities	\$587,250
Community Amenity Contribution Non-Residential	\$1,426
Rezoning Costs Hard Construction Costs	\$500,000
Site Landscaping	\$124,520,000 \$450,000
Electrical Charging Station	\$0
Other	\$10,054,046
Soft costs and Professional Fees Development management	\$10,854,916 \$4,156,794
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	\$7,153,330
Car Share Marketing on Strata Units	\$0 \$0
Initial Lease Up Costs on Rental 1 Units	\$1,398,000
Initial Lease Up Costs on Rental 2 Units	\$0
Initial Lease Up Costs on Rental 3 Units Leasing Commissions on Commercial Space	\$0 \$67,500
Tenant Improvement Allowance on Retail Space	\$337,500
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment GVS & DD Sewer Levy - Townhouse	\$0 \$0
GVS & DD Sewer Levy - Rental Residential	\$1,644,980
GVS & DD Sewer Levy - Commercial	\$36,045
TransLink - Strata Apartment Residential TransLink - Townhouse	\$0 \$0
TransLink - Rental Residential	\$559,200
TransLink - Commercial	\$16,875
Market Strata Apartment DCCs Market Townhouse DCCs	\$0 \$0
Rental 1 Residential DCCs	\$5,822,280
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs Retail DCCs	\$0
Office DCCs	\$161,730 \$0
School Site Acquisition Charge	\$279,600
Less property tax allowance during approvals/development	\$681,422
Less School Tax Surcharge During Development Interim financing on construction costs	\$640,412 \$9,068,910
Financing fees/costs	\$1,923,012
Less Net GST (assuming builder holds units)	\$6,015,706 \$178,873,102
Total Project Costs Before Land	\$170,073,102
Developer's Profit	\$23,061,418
Residual to Land and Land Carry	-\$28,620,183
Less financing on land during construction and approvals Less financing fee on land loan	-\$2,228,797 -\$178,142
Less property closing costs	-\$1,319,629
Residual Land Value	-\$24,893,615
Residual Value per sq.ft. of site	-\$553
Residual Value per sq.ft. of FSR	-\$74
Residual Value per sq.ft. of gross buildable floorspace	-\$74



Appendix 6 - Surrey Exhibit 9 Continued:

Retail Assumptions

Lease Rate NNN\$35.00psf per yearMonthly Parking Revenue (net of costs)\$0per monthVacancy and Non Recoverable Allowance2.00%Capitalization Rate4.75%

Capitalized Value per 1000 SF Gross

 Rental Rev
 \$35,000

 Parking
 \$0

 Total
 \$35,000

 Vacancy
 \$700

 NOI
 \$34,300

 Capitalized Value
 \$722,105

 Value psf of net leasable space
 \$722 psf

Rental 1

# Units 91 235 140 0 466	20% 50% 30% 0% 100%	Size 450 550 750 0	ren \$ \$ \$ \$	1,350 1,500 1,750
235 140 0	50% 30% 0%	550 750	\$	1,500 1,750
140 0	30% 0%	750	\$	1,750
0	0%			
0 466		0	\$	_
466	100%			
		591	\$	1,546
			\$	2.62
			\$ '	1,474,200
			\$ 4	4,230,000
			\$ 2	2,940,000
			\$	-
			\$ 8	8,644,200
				\$ 2 \$ 2 \$ 3

Rental 1 Revenue and Operating Cost Assumptions

Rental Rate Per Month \$2.62 psf per month or \$1,546 per unit per month

Monthly Parking Revenue \$75 per month

Monthly Storage Revenue \$40 per month on 50% of units

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$4,250 per unit per year

Property Tax Allowance
Residential Assessment (upon completion of new building) \$166,617,000 (see capitalized value below)

Residential Tax Rate 0.326%
Residential Property Taxes \$543,808
Capitalization Rate for Rental Apartment Space 4.00%

Capitalized Value

Rental Revenue	\$8,644,200
Parking	\$545,400
Storage	\$111,840
Total	\$9,301,440
Vacancy	\$93,014
Net	\$9,208,426
Op Costs	\$1,980,500
Taxes	\$543,808
NOI	\$6,684,118
Capitalized Value	\$167,102,943
psf of rentable space	\$607



Appendix 6 - Surrey Exhibit 10:

Land Residual Estimate for Concrete Strata Mixed Use Development Assume 7.5 FAR (OCP Density) - With Rental Replacement Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	45,000	sq.ft
Dedications	0	sq.ft.
Site Size	45,000	sq.ft
Site Frontage	160	ft
Base Density	7.5	FAR
Bonus Density	0.0	FAR
Total Density	7.5	FAR
Total Gross floorspace	337,500	sq.ft
Gross residential floorspace	324,000	sq.ft
Gross commercial floorspace	13,500	sq.ft

Concept
Strata Residential
Rental 1
Rental 2
Rental 3
Retail
Office
Total

					Parking Stalls per		
		Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls	Share of Units
299,000	85%	254,150	715	355	1.3	462	9
0	85%	0	585	0	1.3	0	
25,000	85%	21,250	532	40	1.3	52	10
0	85%	0	565	0	0.5	0	
13,500	100%	13,500	n/a	n/a	3.00	38	n/a
0	95%	0	n/a	n/a	0.0	0	n/a
337,500		288,900		395		552	10

\$5,000 per lineal metre of frontage

Revenue/Value
Strata Residenti
Rental 1
Rental 2
Rental 3
Retail

Office

\$840 per net square foot \$0 per net square foot (see separate calculations) \$306 per net square foot (see separate calculations)
\$0 per net square foot (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations)
\$0 per net square foot including parking revenue (see separate calculations)

1.03 acre

Pre Construction Costs Upfront Compensation to Existing Tenants

Tenant Relocation
Allowance for Demolition of Existing Buildings
Allowance for Remediation
Site Preparation/Fill
Standard Site Servicing
Community Amenity Contribution Residential
Affordable Housing Contribution
Public Art Contribution (Allowance)
Undergrounding Utilities
Community Amenity Contribution Non-Residenti
Rezoning Costs

\$350,000 \$0 \$243,902 \$1,668 per unit on average

\$116,293

\$1,000 per strata unit \$1.82 psf of gross building \$1.74 psf of gross building \$0.03 psf of site area

90% 0% 10% 0%

100%

Appendix 6 - Surrey Exhibit 10 Continued:

Construction Costs		
Hard Construction Costs		
Market Strata Residential Area		per gross sq.ft. of residential area
Rental 1 Residential Area		per gross sq.ft. of rental residential area
Rental 2 Residential Area		per gross sq.ft. of rental residential area
Rental 3 Residential Area		per gross sq.ft. of rental residential area
Retail Area (shell space - no Tl) Office Area (shell space - no Tl)		per gross sq.ft. of retail area
Cost Per Garage/Underground Parking Stall		per gross sq.ft. of commercial area per underground/structured parking stall
Overall Costs Per Square Foot		per gross sq.ft.
Sustainability Premium	0%	
Total Estimated Cost per Square Foot	\$363	
Hard Cost Used in Analysis	\$363	
Site Landscaping	\$450,000	
Electrical Charging Station	\$0	
Other	\$0	
Soft costs and Professional Fees	8.5%	of hard costs, landscaping and site prep/servicing costs
Development management	3.0%	of hard costs, landscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0	
Contingency on hard and soft costs	5.0%	of hard, soft and management costs
Car Share	\$0	
Government Levies		
GVS & DD Sewer Levy - Strata Apartment		per apartment unit
GVS & DD Sewer Levy - Townhouse		per townhouse unit
GVS & DD Sewer Levy - Rental Residential		per unit
GVS & DD Sewer Levy - Commercial		per sq.ft. of commercial space
TransLink - Strata Apartment Residential		per market unit
TransLink - Townhouse		per market unit
TransLink - Rental Residential		per unit
TransLink - Commercial		per sq.ft. of commercial space
Market Strata Apartment DCCs		per sq.ft. of floorspace
Market Townhouse DCCs		per sq.ft. of floorspace
Rental 1 Residential DCCs		per sq.ft. of floorspace
Rental 2 Residential DCCs		per sq.ft. of floorspace
Rental 3 Residential DCCs		per sq.ft. of floorspace
Retail DCCs		per sq.ft. of floorspace
Office DCCs		per sq.ft. of floorspace
School Site Acquisition Charge	\$600	per unit
Financing		
Interim financing	5.0%	assuming a 3.00 year construction period
Financing charged on		of land and 75% of construction costs
Financing charged on	1.5%	
Financing lees	1.5%	
Commissions and Marketing		
Commissions on Strata Residential	2 00/	of gross strata market residential revenue
Marketing on Strata Residential		of gross strata market residential revenue
Commissions on Sale of Commercial		of gross commercial value
Commission on Sale of Rental Units		of value
Initial Lease Up Costs on Rental 1 Units		per unit
Initial Lease Up Costs on Rental 2 Units		per unit
Initial Lease Up Costs on Rental 3 Units		per unit
Leasing Commissions on Commercial Space		per sq.ft.
Tenant Improvement Allowance on Retail Space		per sq.ft.
Tenant Improvement Allowance on Office Space		per sq.ft.
	*******	,
Other Costs and Allowances		
Net GST on Market and Below Market Rental Units	5.00%	of capitalized value of rental units
Net GST on Social Housing Units		of development cost of new units (assumes rebate)
Property Taxes		of assessed value
Assumed current assessment (Year 1 of analysis)	\$21,286,121	
Assumed assessment after 1 year of construction (Year 2 of analysis		
Developer's Profit		of total costs or 13.0% of gross market revenue/value
School Tax Surcharge During Development*		
Tax Rate	0.2%	between \$3.0-\$4. 0.4% over \$4.0 million



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$109,994,651 (50% of completed residential project value)

Appendix 6 - Surrey Exhibit 10 Continued:

Revenue	
Strata Sales Revenue	\$213,486,000
Rental 1 Value Rental 2 Value	\$0 \$6,503,302
Rental 3 Value	\$6,503,302
Gross Retail Value	\$0
Gross Office Value	\$0
Total Gross Value	\$219,989,302
Less Commissions on Strata Less Commissions on Rental	\$6,404,580 \$130,066
Less Commissions on Commercial	\$0
Net Sales Revenue/Value	\$213,454,656
Project Costs	
Upfront Compensation to Existing Tenants	\$116,293
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings	\$350,000
Allowance for Remediation	\$0
Site Preparation/Fill Standard Site Servicing	\$0 \$243,902
Electrical Charging Station	\$0
Community Amenity Contribution Residential	\$659,007
Affordable Housing Contribution	\$355,000
Public Art Contribution (Allowance) Undergrounding Utilities	\$614,500 \$587,250
Community Amenity Contribution Non-Residential	\$1,426
Rezoning Costs	\$500,000
Hard Construction Costs	\$122,450,000
Site Landscaping	\$450,000
Electrical Charging Station Other	\$0 \$0
Soft costs and Professional Fees	\$10,698,192
Development management	\$4,096,778
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs Car Share	\$7,050,303
Marketing on Strata Units	\$0 \$6,404,580
Initial Lease Up Costs on Rental 1 Units	\$0
Initial Lease Up Costs on Rental 2 Units	\$80,000
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space Tenant Improvement Allowance on Retail Space	\$67,500 \$337,500
Tenant Improvement Allowance on Office Space	\$037,500
GVS & DD Sewer Levy - Strata Apartment	\$1,253,150
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Levy - Rental Residential	\$141,200
GVS & DD Sewer Levy - Commercial TransLink - Strata Apartment Residential	\$36,045 \$426,000
TransLink - Townhouse	\$0
TransLink - Rental Residential	\$48,000
TransLink - Commercial	\$16,875
Market Strata Apartment DCCs Market Townhouse DCCs	\$5,373,030 \$0
Rental 1 Residential DCCs	\$0 \$0
Rental 2 Residential DCCs	\$449,250
Rental 3 Residential DCCs	\$0
Retail DCCs	\$161,730
Office DCCs School Site Acquisition Charge	\$0 \$237,000
Less property tax allowance during approvals/development	\$822,217
Less School Tax Surcharge During Development	\$851,957
Interim financing on construction costs	\$9,226,504
Financing fees/costs	\$1,958,683
Less Net GST (assuming builder holds units) Total Project Costs Before Land	\$325,165 \$176,389,039
Total 1 Tojost Ocoto Botolo Euria	ψ170,000,000
Developer's Profit	\$28,686,605
Residual to Land and Land Carry	\$8,379,012
Less financing on land during construction and approvals	\$652,516
Less financing fee on land loan	\$52,154
Less property closing costs Residual Land Value	\$290,031 \$7,384,311
	φ1,00 4 ,011
Residual Value per sq.ft. of site	\$164
Residual Value per sq.ft. of FSR	\$22
Residual Value per sq.ft. of gross buildable floorspace	\$22



Appendix 6 - Surrey Exhibit 10 Continued:

Rental 2

Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	10	25%	400	\$	697
1-Bedroom	18	45%	500	\$	880
2-Bedroom	12	30%	690	\$	1,036
3-Bedroom	0	0%	0	\$	-
Total	40	100%			
Average			532	\$	881
				\$	1.66
Annual Revenue					
Studios				\$	83,592
1-Bedroom				\$	190,123
2-Bedroom				\$	149,170
3-Bedroom				\$	-
				T	
TOTAL				\$	422,885

Rental 2 Revenue and Operating Cost Assumptions

Rental Rate Per Month \$1.66 psf per month or \$881 per unit per month

Monthly Parking Revenue \$50 per month

Monthly Storage Revenue \$40 per month on 50% of units

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$3,800 per unit per year

Property Tax Allowance

Residential Assessment (upon completion of new building) \$6,481,250 (see capitalized value below)
Residential Tax Rate 0.326%

Residential Property Taxes \$21,154
Capitalization Rate for Rental Apartment Space 4.25%

Capitalized Value

Rental Revenue	\$422,885
Parking	\$31,200
Storage	\$12,480
Total	\$454,085
Vacancy	\$4,541
Net	\$449,544
Op Costs	\$152,000
Taxes	\$21,154
NOI	\$276,390
Capitalized Value	\$6,503,302
psf of rentable space	\$306.04



Appendix 6 - Surrey Exhibit 11:

Land Residual Estimate for Concrete Mixed Rental Development
Assume 7.5 FAR (OCP Density) - With Rental Replacement
Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site and Building Size

Gross Parcel Size	45,000	sq.ft.
Dedications	0	sq.ft.
Site Size	45,000	sq.ft.
Site Frontage	160	ft
Base Density	7.5	FAR
Bonus Density	0.0	FAR
Total Density	7.5	FAR
Total Gross floorspace	337,500	sq.ft.
Gross residential floorspace	324,000	sq.ft.
Gross commercial floorspace	13,500	sq.ft.

Concept		
Strata Residential		
Rental 1		
Rental 2		
Rental 3		
Retail		
Office		
Total		

75,000					Parking Stalls per		
		Net Saleable	Avg Unit	Number of	Unit or 1075	Parking	
Gross SF	Efficiency	or Rentable	Size	Units	sf	Stalls S	hare of Units
0	85%	0	650	0	1.3	0	0%
324,000	85%	275,400	593	465	1.3	605	92%
25,000	85%	21,250	532	40	1.3	52	8%
0	85%	0	565	0	0.5	0	0%
0	100%	0	n/a	n/a	3.00	0 n/	a
0	95%	0	n/a	n/a	0.0	0 n/	a
349,000		296,650		505		657	100%

Revenue/Value	
Strata Residential	
Rental 1	
Rental 2	
Rental 3	
Retail	
Office	

\$607	per net square foot (see separate calculations)
\$0	per net square foot (see separate calculations)
\$0	per net square foot (see separate calculations)
\$0	per net square foot including parking revenue (see separate calculations)
\$0	per net square foot including parking revenue (see separate calculations)

1.03 acre

Pre Construction Costs Upfront Compensation to Existing Tenants

Tenant Relocation
Allowance for Demolition of Existing Buildings
Allowance for Remediation
Site Preparation/Fill
Standard Site Servicing
Community Amenity Contribution Residential
Affordable Housing Contribution
Public Art Contribution (Allowance)
Undergrounding Utilities
Community Amenity Contribution Non-Residentia
Rezoning Costs

9000,000			
\$0			
\$0			
\$243,902		\$5,000	per lineal metre of frontage
\$1,668	per unit on averag	je	
\$1,000	per strata unit		
\$1.85	psf of gross buildi	ing	
\$1.74	psf of gross buildi	ing	
\$0.03	psf of site area		

\$0 per net square foot

\$204,436

Appendix 6 - Surrey Exhibit 11 Continued:

• • • • • • • • • • • • • • • • • • • •		
Construction Costs		
Hard Construction Costs		
Market Strata Residential Area	\$0 per gross sq.ft. of residential area	
Rental 1 Residential Area	\$265 per gross sq.ft. of rental residential area	
Rental 2 Residential Area	\$265 per gross sq.ft. of rental residential area	
Rental 3 Residential Area	\$0 per gross sq.ft. of rental residential area	
Retail Area (shell space - no TI)	\$240 per gross sq.ft. of retail area	
Office Area (shell space - no TI)	\$0 per gross sq.ft. of commercial area	
Cost Per Garage/Underground Parking Stall	\$55,000 per underground/structured parking stall	
Overall Costs Per Square Foot	\$369 per gross sq.ft.	
Sustainability Premium	0%	
Total Estimated Cost per Square Foot	\$369	
Hard Cost Used in Analysis	\$369 \$450,000 or \$20 psf of site area on 50% of site	
Site Landscaping Electrical Charging Station	\$0 - stations \$0 per station	n
Other	\$0	
Soft costs and Professional Fees	8.5% of hard costs, landscaping and site prep/servicing costs	
Development management	3.0% of hard costs, landscaping and site prep/servicing costs and soft costs	
Fees, legal and survey for rental portion	\$0	
Contingency on hard and soft costs	5.0% of hard, soft and management costs	
Car Share	\$0	
Government Levies		
GVS & DD Sewer Levy - Strata Apartment	\$3,530 per apartment unit	
GVS & DD Sewer Levy - Townhouse	\$0 per townhouse unit	
GVS & DD Sewer Levy - Rental Residential	\$3,530 per unit	
GVS & DD Sewer Levy - Commercial	\$2.67 per sq.ft. of commercial space	
TransLink - Strata Apartment Residential	\$1,200 per market unit	
TransLink - Townhouse	\$0 per market unit	
TransLink - Rental Residential	\$1,200 per unit	
TransLink - Commercial	\$1.25 per sq.ft. of commercial space	
Market Strata Apartment DCCs	\$17.97 per sq.ft. of floorspace	
Market Townhouse DCCs	\$0.00 per sq.ft. of floorspace	
Rental 1 Residential DCCs	\$17.97 per sq.ft. of floorspace	
Rental 2 Residential DCCs	\$17.97 per sq.ft. of floorspace	
Rental 3 Residential DCCs	\$17.97 per sq.ft. of floorspace	
Retail DCCs	\$11.98 per sq.ft. of floorspace	
Office DCCs	\$0.00 per sq.ft. of floorspace \$600 per unit	
School Site Acquisition Charge	\$600 per driit	
Financing		
Interim financing	5.0% assuming a 3.00 year construction period	
Financing charged on	50% of land and 75% of construction costs	
Financing fees	1.5%	
Thanking loss	1.070	
Commissions and Marketing		
Commissions on Strata Residential	3.0% of gross strata market residential revenue	
Marketing on Strata Residential	3.0% of gross strata market residential revenue	
Commissions on Sale of Commercial	2.0% of gross commercial value	
Commission on Sale of Rental Units	2.0% of value	
Initial Lease Up Costs on Rental 1 Units	\$3,000 per unit	
Initial Lease Up Costs on Rental 2 Units	\$2,000 per unit	
Initial Lease Up Costs on Rental 3 Units	\$1,000 per unit	
Leasing Commissions on Commercial Space	\$5.00 per sq.ft.	
Tenant Improvement Allowance on Retail Space	\$25.00 per sq.ft.	
Tenant Improvement Allowance on Office Space	\$50.00 per sq.ft.	
Other Costs and Allowances		
Net GST on Market and Below Market Rental Units	3.60% of capitalized value of rental units	
Net GST on Social Housing Units	2.50% of development cost of new units (assumes rebate)	
Property Taxes	0.326% of assessed value	
Assumed current assessment (Year 1 of analysis)	\$21,286,121	
Assumed assessment after 1 year of construction (Year 2 of analysis		
Developer's Profit	15.0% of total costs or 13.0% of gross market revenue/value	
School Tax Surcharge During Development*		
Tax Rate	0.2% between \$3.0-\$4.1	



Residential Portion of current assessment (Year 1 of analysis)

Assumed residential portion of assessment after 1 year of constructio \$83,564,109 (50% of completed residential project value)

Tax Rate

*Assumes BC Owner

Appendix 6 - Surrey Exhibit 11 Continued:

Revenue	
Strata Sales Revenue	\$0
Rental 1 Value Rental 2 Value	\$167,128,219 \$0
Rental 3 Value	\$0
Gross Retail Value	\$0
Gross Office Value Total Gross Value	\$0 \$167,128,219
Less Commissions on Strata	\$0
Less Commissions on Rental Less Commissions on Commercial	\$3,342,564 \$0
Net Sales Revenue/Value	\$163,785,654
Professional Control	
Project Costs Upfront Compensation to Existing Tenants	\$204,436
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings Allowance for Remediation	\$350,000 \$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$243,902
Electrical Charging Station Community Amenity Contribution Residential	\$0 \$842,528
Affordable Housing Contribution	\$0
Public Art Contribution (Allowance)	\$624,159
Undergrounding Utilities Community Amenity Contribution Non-Residential	\$587,250 \$1,426
Rezoning Costs	\$500,000
Hard Construction Costs	\$128,620,000
Site Landscaping Electrical Charging Station	\$450,000 \$0
Other	\$0
Soft costs and Professional Fees	\$11,208,888
Development management	\$4,292,345 \$0
Fees, legal and survey for rental portion Contingency on hard and soft costs	\$7,386,025
Car Share	\$0
Marketing on Strata Units	\$0
Initial Lease Up Costs on Rental 1 Units Initial Lease Up Costs on Rental 2 Units	\$1,395,000 \$80,000
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space	\$0
Tenant Improvement Allowance on Retail Space Tenant Improvement Allowance on Office Space	\$0 \$0
GVS & DD Sewer Levy - Strata Apartment	\$0
GVS & DD Sewer Levy - Townhouse	\$0 \$1.783.650
GVS & DD Sewer Levy - Rental Residential GVS & DD Sewer Levy - Commercial	\$1,782,650 \$0
TransLink - Strata Apartment Residential	\$0
TransLink - Townhouse TransLink - Rental Residential	\$0
TransLink - Commercial	\$606,000 \$16,875
Market Strata Apartment DCCs	\$0
Market Townhouse DCCs Rental 1 Residential DCCs	\$0 \$5,000,000
Rental 2 Residential DCCs	\$5,822,280 \$449,250
Rental 3 Residential DCCs	\$0
Retail DCCs	\$0 \$0
Office DCCs School Site Acquisition Charge	\$0 \$303,000
Less property tax allowance during approvals/development	\$649,688
Less School Tax Surcharge During Development	\$640,513 \$9,360,883
Interim financing on construction costs Financing fees/costs	\$1,984,692
Less Net GST (assuming builder holds units)	\$6,016,616
Total Project Costs Before Land	\$184,418,406
Developer's Profit	\$21,793,520
Residual to Land and Land Carry	-\$42,426,272
Less financing on land during construction and approvals	-\$3,303,946
Less financing fee on land loan Less property closing costs	-\$264,076 -\$1,920,267
Residual Land Value	-\$36,937,983
Residual Value per sq.ft. of site	-\$821
Residual Value per sq.ft. of FSR	-\$109
Residual Value per sq.ft. of gross buildable floorspace	-\$109



Appendix 6 - Surrey Exhibit 11 Continued:

Rental 1					
Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	31	19%	450	\$	1,350
1-Bedroom	80	50%	550	\$	1,500
2-Bedroom	50	31%	750	\$	1,750
3-Bedroom	0	0%	0	\$	-
Total	161	100%		T	
Average			593	\$	1,549
				\$	2.61
Annual Revenue					
Studios				\$	502,200
1-Bedroom				\$	1,440,000
2-Bedroom				\$	1,050,000
3-Bedroom				\$	-
TOTAL					2,992,200

Rental 1 Revenue and Operating Cost Assumptions

 Rental Rate Per Month
 \$2.61 psf per month or \$1,549 per unit per month

 Monthly Parking Revenue
 \$75 per month

Monthly Storage Revenue \$40 per month on 50% of units
Vacancy and Non Recoverable Allowance 1.00%
Operating costs for New Rental Units \$4,250 per unit per year

Property Tax Allowance
Residential Assessment (upon completion of new building) \$166,617,000 (see capitalized value below)

Residential Tax Rate 0.326%
Residential Property Taxes \$543,808
Capitalization Rate for Rental Apartment Space 4.00%

Capitalized Value

\$8,642,068 \$544,500 \$111,600 Parking Storage Total \$9,298,168 Vacancy \$92,982 \$9,205,187 Net Op Costs \$1,976,250 \$543,808 Taxes NOI \$6,685,129 Capitalized Value \$167,128,219 psf of rentable space \$607

Rental 2

Assumptions			Market		Rent
Unit Type	# Units		Size	re	nt/month
Studios	10	25%	400	\$	697
1-Bedroom	18	45%	500	\$	880
2-Bedroom	12	30%	690	\$	1,036
3-Bedroom	0	0%	0	\$	-
Total	40	100%		1	
Average			532	\$	881
				S	1.66
Annual Revenue					
Studios				S	83,592
1-Bedroom				S	190,123
2-Bedroom				\$	149,170
3-Bedroom				\$	-
TOTAL				\$	422,885

Rental 2 Revenue and Operating Cost Assumptions Rental Rate Per Month

 Rental Rate Per Month
 \$1.66 psf per month or \$881 per unit per month

 Monthly Parking Revenue
 \$50 per month

 Monthly Storage Revenue
 \$40 per month on \$50% of units

 Vacancy and Non Recoverable Allowance
 1.00%

Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$3,800 per unit per year Property Tax Allowance

Residential Assessment (upon completion of new building) \$5,843,750 (see capitalized value below)

 Residential Tax Rate
 0.326%

 Residential Property Taxes
 \$19,073

 Capitalization Rate for Rental Apartment Space
 4.25%

Capitalized Value

\$422,885 Rental Rev \$31,200 Parking \$800 \$454,085 Storage Total Vacancy Net \$449,544 \$152,000 Op Costs Taxes \$19,073 NOI \$278.471 Capitalized Value \$6,552,259 psf of rentable space \$308.34



Appendix 7 - Maple Ridge Exhibit 1:

Estimated Income Value Assuming Property is Improved with Old Low Density Commercial Buildings

Major Assumptions Site and Building Size

Site and Building Size					
Existing Zoning	C-3				
Site Size	15,000	sq.ft. or	115	by	130
Assumed Density	0.30	FSR			
Total Commercial Space	4,500	sq.ft.			
Retail	4,500	sq.ft.	100%	rentable	
Revenue and Value					
Average Lease Rate for Retail Space	\$18.00	per sq.ft. net	, base buildir	ng	
Capitalization Rate	4.75%				
		per sq.ft. of le	easable		
Value of Retail and Service Space Upon Lease-up	\$379	area			
Vacancy and non recoverables	0%				

Estimated Overall Value

Capitalized Value of Retail/Service Space \$1,705,263
Total Value of Commercial \$1,705,263

Appendix 7 - Maple Ridge Exhibit 2:

Estimated Income Value of Property if Improved with an Older Low Density Rental Building

	Rental Apartment Value
Site Size (SF)	15,000
Assumed FSR	0.5
Total Floor Area (SF)	7,500
Average Gross Unit Size (SF)	900
Number of Units	9.0
Market Value Per Unit1	\$150,000
Value of Rental	\$1,350,000

¹Based on recent market transactions.

Appendix 7 – Maple Ridge Exhibit 3:

Estimated Existing Value of Site if Improved with Older Single Family Houses

Single Family Assembly Value				
Site Size				
(SF)	15,000			
Value Per				
SF of Site	\$90			
Total Value	\$1,350,000			



Appendix 7 - Maple Ridge Exhibit 4:

Land Residual Estimate for Strata Mixed Use Development

Assume 2.3 FSR (C-3 Zone)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

S	ite	and	Buil	ld	ing	S	ize

Gross Parcel Size	15,000	sq.ft.
Dedications	0	sq.ft.
Site Size	15,000	sq.ft.
Site Frontage	115	ft
Base Density	2.3	FSR
Bonus Density	0.0	FSR
Total Density	2.3	FSR
Total Gross floorspace	34,500	sq.ft.
Gross residential floorspace	30,000	sq.ft.
Gross commercial floorspace	4.500	sa.ft.

Concept	
Strata Residential	
Rental 1	
Rental 2	
Rental 3	
Retail	
Office	
Total	

1,000		Not Colombia	A 11-14	Number	Parking Stalls per	Double	
oss SF	Efficiency	Net Saleable or Rentable	Avg Unit Size	Number of Units	Unit or 100 sq. m.	Parking Stalls Share	of Units
30.000	85%	25,500	850	30	1.0	30	100%
0	85%	0	631	0	1.0	0	0%
0	85%	0	565	0	0.0	0	0%
0	85%	0	565	0	0.0	0	0%
4,500	100%	4,500	n/a	n/a	1.0	4 n/a	
0	95%	0	n/a	n/a	0.0	0 n/a	
34,500		30,000		30		34	100%

Revenue/Value
Strata Residential

Rental 2 Rental 3 Retail Office

\$540 per net square foot \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$667 per net square foot including parking revenue (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations)

0.34 acre

Pre Construction Costs

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings (Allowance) Allowance for Remediation Site Preparation/Fill Standard Site Servicing Density Bonus Contribution Rezoning Costs

\$100,000 \$0 \$122,713

\$3,500 per lineal metre of frontage \$0



Appendix 7 - Maple Ridge Exhibit 4 Continued:

Appendix / - Maple Ridge Exhib	it 4 Continued:		
Construction Costs			
Hard Construction Costs			
Market Strata Residential Area	\$180		
Rental 1 Residential Area	\$0	per gross sq.ft. of	f rental residential area
Rental 2 Residential Area	\$0	per gross sq.ft. of	f rental residential area
Rental 3 Residential Area	\$0	per gross sq.ft. o	f rental residential area
Retail Area (shell space - no TI)	\$240	per gross sq.ft. o	f retail area
Office Area (shell space - no TI)	\$0	per gross sq.ft. of	f commercial area
Cost Per Garage/Underground Parking Stall			structured parking stall
Overall Costs Per Square Foot		per gross sq.ft.	
Sustainability Premium	0%		
Total Estimated Cost per Square Foot	\$232		
Hard Cost Used in Analysis	\$232		\$20
Site Landscaping Electrical Charging Station	\$150,000 \$0		\$20 psf of site area on 50% of site - stations \$0 per station
Other	\$0		- stations wo per station
Soft costs and Professional Fees			dscaping and site prep/servicing costs
Development management			dscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0		assaping and one proprositioning cools and controlled
Contingency on hard and soft costs			management costs
Car Share	\$0		g
Government Levies			
GVS & DD Sewer Levy - Strata Apartment	\$3,530	per apartment un	it
GVS & DD Sewer Levy - Townhouse	\$0	per townhouse ur	nit
GVS & DD Sewer Levy - Rental Residential		per unit	
GVS & DD Sewer Levy - Commercial		per sq.ft. of comn	nercial space
TransLink - Strata Apartment Residential		per market unit	
TransLink - Townhouse		per market unit	
TransLink - Rental Residential		per unit	and the same
TransLink - Commercial		per sq.ft. of comm	
Market Strata Apartment DCCs		per sq.ft. of floors	•
Market Townhouse DCCs		per sq.ft. of floors	•
Rental 1 Residential DCCs		per sq.ft. of floors	
Rental 2 Residential DCCs		per sq.ft. of floors	•
Rental 3 Residential DCCs Retail DCCs		per sq.ft. of floors	·
Office DCCs		per sq.ft. of floors per sq.ft. of floors	·
School Site Acquisition Charge		per sq.it. of iloofs	pace
Corlos One Moquisition Charge	\$550	por anic	
Financing			
Interim financing	5.0%	assuming a	1.75 year construction period
Financing charged on	50%	of land and	75% of construction costs
Financing fees	1.5%		
Commissions and Marketing			
Commissions on Strata Residential	3.0%	of gross strata ma	arket residential revenue
Marketing on Strata Residential	3.0%	of gross strata ma	arket residential revenue
Commissions on Sale of Commercial		of gross commerc	cial value
Commission on Sale of Rental Units		of value	
Initial Lease Up Costs on Rental 1 Units		per unit	
Initial Lease Up Costs on Rental 2 Units		per unit	
Initial Lease Up Costs on Rental 3 Units		per unit	
Leasing Commissions on Commercial Space		per sq.ft.	
Tenant Improvement Allowance on Retail Space		per sq.ft.	
Tenant Improvement Allowance on Office Space	\$50.00	per sq.ft.	
Other Costs and Allowances			
Net GST on Market and Below Market Rental Units	3.20%	of capitalized valu	ue of rental units
Net GST on Social Housing Units			ost of new units (assumes rebate)
Property Taxes		of assessed value	
Assumed current assessment (Year 1 of analysis)	\$1,580,000		
Assumed assessment after 1 year of construction (Ye		(50% of complete	ed project value)
Developer's Profit	15.0%	of total costs or	13.0% of gross market revenue/value
School Tax Surcharge During Development*			A 44 A 45
Tax Rate Residential Portion of current assessment (Year 1 of a		between \$3.0-\$4.	0.4% over \$4.0 million

\$6,885,000 (50% of completed residential project value)



Residential Portion of current assessment (Year 1 of analysis)
Assumed residential portion of assessment after 1 year of constructio

*Assumes BC Owner

Appendix 7 – Exhibit 4 Continued:

Revenue	
Strata Sales Revenue	\$13,770,000
Rental 1 Value	\$0
Rental 2 Value Rental 3 Value	\$0 \$0
Gross Retail Value	\$2,553,158
Gross Office Value	\$0
Total Gross Value Less Commissions on Strata	\$16,323,158 \$413,100
Less Commissions on Rental	\$413,100 \$0
Less Commissions on Commercial	\$51,063
Net Sales Revenue/Value	\$15,858,995
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings (Allowance) Allowance for Remediation	\$100,000 \$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$122,713
Electrical Charging Station Density Bonus Contribution	\$0 \$0
Rezoning Costs	\$0
Hard Construction Costs	\$8,010,000
Site Landscaping Electrical Charging Station	\$150,000 \$0
Other	\$0
Soft costs and Professional Fees	\$704,031
Development management	\$269,602
Fees, legal and survey for rental portion Contingency on hard and soft costs	\$0 \$467,817
Car Share	\$0
Marketing on Strata Units	\$413,100
Initial Lease Up Costs on Rental 1 Units Initial Lease Up Costs on Rental 2 Units	\$0 \$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space	\$22,500
Tenant Improvement Allowance on Retail Space Tenant Improvement Allowance on Office Space	\$112,500 \$0
GVS & DD Sewer Levy - Strata Apartment	\$105,900
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Lewy - Rental Residential GVS & DD Sewer Lewy - Commercial	\$0 \$12,015
TransLink - Strata Apartment Residential	\$36,000
TransLink - Townhouse	\$0
TransLink - Rental Residential TransLink - Commercial	\$0 \$5.635
Market Strata Apartment DCCs	\$5,625 \$302,706
Market Townhouse DCCs	\$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs Rental 3 Residential DCCs	\$0 \$0
Retail DCCs	\$18,959
Office DCCs	\$0
School Site Acquisition Charge Less property tax allowance during approvals/development	\$18,000 \$39,313
Less School Tax Surcharge During Development	\$10,155
Interim financing on construction costs	\$358,010
Financing fees/costs Less Net GST (assuming builder holds units)	\$126,888 \$0
Total Project Costs Before Land	\$11,405,835
Developer's Profit	\$2,128,540
·	
Residual to Land and Land Carry	\$2,324,620
Less financing on land during construction and approvals Less financing fee on land loan	\$116,376 \$14,906
Less property closing costs	\$29,684
Residual Land Value	\$2,163,654
Residual Value per sq.ft. of site	\$144
Residual Value per sq.ft. of FSR	\$63
Residual Value per sq.ft. of gross buildable floorspace	\$63



Appendix 7 – Exhibit 4 Continued:

Retail Assumptions

Lease Rate NNN	\$27.50 psf per year
Monthly Parking Revenue (net of costs)	\$0 per month
Vacancy and Non Recoverable Allowance	2.00%
Capitalization Rate	4.75%

Capitalized Value per 1000 SF Gross

•	
Rental Rev	\$27,500
Parking	\$0
Total	\$27,500
Vacancy	\$550
NOI	\$26,950
Capitalized Value	\$567,368
Value psf of net leasable space	\$567.37 psf



0.34 acre

Parking

0% 100% 0% 0%

100%

Appendix 7 - Exhibit 5:

Land Residual Estimate for Rental Mixed Use Development

Assume 2.3 FSR (C-3 Zone)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

Site	and	Build	ing	Size	

Gross Parcel Size	15,000	sq.ft.
Dedications	0	sq.ft.
Site Size	15,000	sq.ft.
Site Frontage	115	ft
Base Density	2.3	FSR
Bonus Density	0.0	FSR
Total Density	2.3	FSR
Total Gross floorspace	34,500	sq.ft.
Gross residential floorspace	30,000	sq.ft.
Gross commercial floorsnace	4 500	sa ft

						Stalls per		
			Net Saleable	Avg Unit	Number of	Unit or 100	Parking	
Concept	Gross SF	Efficiency	or Rentable	Size	Units	sq. m.	Stalls Share	of Units
Strata Residential	0	85%	0	850	0	1.0	0	0
Rental 1	30,000	85%	25,500	643	40	1.0	40	100
Rental 2	0	85%	0	565	0	0.0	0	0
Rental 3	0	85%	0	565	0	0.0	0	0
Retail	4,500	100%	4,500	n/a	n/a	1.0	4 n/a	
Office	0	95%	0	n/a	n/a	0.0	0 n/a	
Total	34,500		30,000		40		44	100

Revenue/Value	
Strata Residential	\$0 per net square foot
Rental 1	\$456 per net square foot (see separate calculations)
Rental 2	\$0 per net square foot (see separate calculations)
Rental 3	\$0 per net square foot (see separate calculations)
Retail	\$567 per net square foot including parking revenue (see separate calculations)
Office	\$0 per net square foot including parking revenue (see separate calculations)

Pre Construction Costs

Upfront Compensation to Existing Tenants Tenant Relocation

Allowance for Demolition of Existing Buildings (Allowance)

Allowance for Remediation Site Preparation/Fill Standard Site Servicing Density Bonus Contribution Rezoning Costs \$100,000 \$0 \$0

\$3,500 per lineal metre of frontage \$0 psf of bonus density



Appendix 7 - Exhibit 5 Continued:

Appendix 7 – Exhibit 5 Continued.	
Construction Costs	
Hard Construction Costs	
Market Strata Residential Area	\$0
Rental 1 Residential Area	\$170 per gross sq.ft. of rental residential area
Rental 2 Residential Area	\$0 per gross sq.ft. of rental residential area
Rental 3 Residential Area	\$0 per gross sq.ft. of rental residential area
Retail Area (shell space - no TI)	\$240 per gross sq.ft. of retail area
Office Area (shell space - no TI)	\$0 per gross sq.ft. of commercial area
Cost Per Garage/Underground Parking Stall Overall Costs Per Square Foot	\$45,000 per underground/structured parking stall \$237 per gross sq.ft.
Sustainability Premium	0%
Total Estimated Cost per Square Foot	\$237
Hard Cost Used in Analysis	\$237
Site Landscaping	\$150,000 or \$20 psf of site area on 50% of site
Electrical Charging Station	\$0 - stations \$0 per station
Other	\$0
Soft costs and Professional Fees	8.5% of hard costs, landscaping and site prep/servicing costs
Development management	3.0% of hard costs, landscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	5.0% of hard, soft and management costs
Car Share	\$0
Government Levies	
GVS & DD Sewer Levy - Strata Apartment	\$3,530 per apartment unit
GVS & DD Sewer Levy - Townhouse	\$0 per townhouse unit
GVS & DD Sewer Levy - Rental Residential	\$3,530 per unit
GVS & DD Sewer Levy - Commercial	\$2.67 per sq.ft. of commercial space
TransLink - Strata Apartment Residential	\$1,200 per market unit
TransLink - Townhouse	\$0 per market unit
TransLink - Rental Residential	\$1,200 per unit
TransLink - Commercial	\$1.25 per sq.ft. of commercial space
Market Strata Apartment DCCs	\$10.09 per sq.ft. of floorspace
Market Townhouse DCCs	\$0.00 per sq.ft. of floorspace
Rental 1 Residential DCCs	\$10.09 per sq.ft. of floorspace
Rental 2 Residential DCCs	\$0.00 per sq.ft. of floorspace
Rental 3 Residential DCCs	\$0.00 per sq.ft. of floorspace
Retail DCCs Office DCCs	\$4.21 per sq.ft. of floorspace
School Site Acquisition Charge	\$0.00 per sq.ft. of floorspace \$600 per unit
Scribbi Site Adquisition Griange	per ant
Financing	
Interim financing	5.0% assuming a 1.75 year construction period
Financing charged on	50% of land and 75% of construction costs
Financing fees	1.5%
Commissions and Marketing	
Commissions on Strata Residential	3.0% of gross strata market residential revenue
Marketing on Strata Residential	3.0% of gross strata market residential revenue
Commissions on Sale of Commercial	2.0% of gross commercial value
Commission on Sale of Rental Units	2.0% of value
Initial Lease Up Costs on Rental 1 Units	\$2,000 per unit
Initial Lease Up Costs on Rental 2 Units	\$2,000 per unit
Initial Lease Up Costs on Rental 3 Units	\$2,000 per unit
Leasing Commissions on Commercial Space	\$5.00 per sq.ft.
Tenant Improvement Allowance on Retail Space	\$25.00 per sq.ft. \$50.00 per sq.ft.
Tenant Improvement Allowance on Office Space	φουίου μαι εγίπ.
Other Costs and Allowances	
Net GST on Market and Below Market Rental Units	3.20% of capitalized value of rental units
Net GST on Social Housing Units	2.50% of development cost of new units (assumes rebate)
Property Taxes	0.463% of assessed value
Assumed current assessment (Year 1 of analysis)	\$1,580,000
Assumed assessment after 1 year of construction (Year 2 of analysis	
Developer's Profit	15.0% of total costs or 13.0% of gross market revenue/value
School Tax Surcharge During Development*	0.20/ habitaan #2.0 #4.1

\$5,816,165 (50% of completed residential project value)



Residential Portion of current assessment (Year 1 of analysis)
Assumed residential portion of assessment after 1 year of constructio

*Assumes BC Owner

Appendix 7 – Exhibit 5 Continued:

Revenue	•
Strata Sales Revenue Rental 1 Value	\$0 \$11,632,329
Rental 2 Value	\$11,632,329
Rental 3 Value	\$0
Gross Retail Value	\$2,553,158
Gross Office Value	\$0
Total Gross Value	\$14,185,487
Less Commissions on Strata Less Commissions on Rental	\$0 \$232,647
Less Commissions on Commercial	\$51,063
Net Sales Revenue/Value	\$13,901,777
Project Costs	r.o.
Upfront Compensation to Existing Tenants Tenant Relocation	\$0 \$0
Allowance for Demolition of Existing Buildings (Allowance)	\$100,000
Allowance for Remediation	\$0
Site Preparation/Fill	\$0
Standard Site Servicing	\$122,713
Electrical Charging Station Density Bonus Contribution	\$0 \$0
Rezoning Costs	\$0
Hard Construction Costs	\$8,160,000
Site Landscaping	\$150,000
Electrical Charging Station	\$0
Other Soft costs and Professional Fees	\$0 \$716 781
Development management	\$716,781 \$274,485
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	\$476,199
Car Share	\$0
Marketing on Strata Units	\$0
Initial Lease Up Costs on Rental 1 Units Initial Lease Up Costs on Rental 2 Units	\$80,000 \$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space	\$22,500
Tenant Improvement Allowance on Retail Space	\$112,500
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment GVS & DD Sewer Levy - Townhouse	\$0 \$0
GVS & DD Sewer Levy - Rental Residential	\$141,200
GVS & DD Sewer Levy - Commercial	\$12,015
TransLink - Strata Apartment Residential	\$0
TransLink - Townhouse	\$0
TransLink - Rental Residential TransLink - Commercial	\$48,000 \$5,625
Market Strata Apartment DCCs	\$0
Market Townhouse DCCs	\$0
Rental 1 Residential DCCs	\$302,706
Rental 2 Residential DCCs	\$0
Rental 3 Residential DCCs Retail DCCs	\$0 \$18,959
Office DCCs	\$0
School Site Acquisition Charge	\$24,000
Less property tax allowance during approvals/development	\$35,602
Less School Tax Surcharge During Development	\$6,948
Interim financing on construction costs Financing fees/costs	\$354,483 \$125,603
Less Net GST (assuming builder holds units)	\$372,235
Total Project Costs Before Land	\$11,662,554
Developer's Profit	\$1,849,788
Residual to Land and Land Carry	\$389,436
Less financing on land during construction and approvals	\$19,496
Less financing fee on land loan	\$2,497
Less property closing costs Residual Land Value	-\$57,046 \$424,490
Residual Latiu Value	\$424,490
Residual Value per sq.ft. of site	\$28
Residual Value per sq.ft. of FSR	\$12
Residual Value per sq.ft. of gross buildable floorspace	\$12



Appendix 7 - Exhibit 5 Continued:

Retail Assumptions

\$27.50 psf per year Lease Rate NNN Monthly Parking Revenue (net of costs) \$0 per month Vacancy and Non Recoverable Allowance 2.00% Capitalization Rate 4.75%

Capitalized Value per 1000 SF Gross

Rental Rev \$27,500 Parking \$0 Total \$27,500 Vacancy \$550 NOI \$26,950 Capitalized Value \$567,368 Value psf of net leasable space \$567.37 psf

Rental Assumptions

Rental 1

		Market		Rent	
# Units			rent/month		
0	0%	475	\$	-	
28	70%	575	\$	1,350	
12	30%	800	\$	1,650	
0	0%	0	\$	-	
40	100%				
		643	\$	1,440	
			\$	2.24	
			\$	-	
			\$	453,600	
			\$	237,600	
			\$	-	
			\$	691,200	
	0 28 12 0	0 0% 28 70% 12 30% 0 0%	# Units Size 0 0% 475 28 70% 575 12 30% 800 0 0% 0 40 100%	# Units Size re 0 0% 475 \$ 28 70% 575 \$ 12 30% 800 \$ 0 0% 0 \$ 40 100% 643 \$ \$ \$ \$ \$ \$ \$ \$ \$	

Rental 1 Revenue and Operating Cost Assumptions

Rental Rate Per Month \$2.24 psf per month or \$1,440 per unit per month

Monthly Parking Revenue \$50 per month Monthly Storage Revenue \$40 per month on 50% of units Vacancy and Non Recoverable Allowance 1.00%

Operating costs for New Rental Units \$4,600 per unit per year

Property Tax Allowance

Residential Assessment (upon completion of new building) \$11,602,500 (see capitalized value below)

0.463% Residential Tax Rate Residential Property Taxes \$53,718 Capitalization Rate for Rental Apartment Space 4.125%

Capitalized Value

Rental Revenue	\$691,200
Parking	\$24,000
Storage	\$9,600
Total	\$724,800
Vacancy	\$7,248
Net	\$717,552
Op Costs	\$184,000
Taxes	\$53,718
NOI	\$479,834
Capitalized Value	\$11,632,329
psf of rentable space	\$456.17



Appendix 7 – Exhibit 6:

Land Residual Estimate for Strata Mixed Use Development

Assume 4.0 FSR (No CAC)

Major Assumptions (shading indicates figures that are inputs; unshaded cells are formulas)

A CAC would be required for a rezoning to 4.0 FSR.

Avg Unit

Size

850

631

565

565

n/a

n/a

\$3,500 per lineal metre of frontage

A CAC has been excluded because project is not viable even without it.

Number of

Units

56

0

0

n/a

n/a

56

Site and Building Size Gross Parcel Size

15,000 sq.ft. Dedications 0 sq.ft. Site Size 15,000 sq.ft. or Site Frontage 115 ft 4.0 FSR Base Density Bonus Density 0.0 FSR Total Density 4.0 FSR Total Gross floorspace 60,000 sq.ft. Gross residential floorspace 55,500 sq.ft. Gross commercial floorspace 4,500 sq.ft.

0.34 acre

Concept Strata Residential Rental 1 Rental 2 Rental 3 Retail Office Total

Efficiency Gross SF or Rentable 55,500 85% 47,175 85% 0 85% 0 85% 0 4,500 95% 60,000 51,675 Parking Stalls Share of Units 56 100% 0% Ω 0% 0 0% 0 n/a 60 100%

Parking Stalls per

sq. m.

1.0

1.0

0.0

0.0

0.0

Unit or 100

Revenue/Value

Strata Residential Rental 1 Rental 2 Rental 3 Retail Office

\$640 per net square foot \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$0 per net square foot (see separate calculations) \$567 per net square foot including parking revenue (see separate calculations) \$0 per net square foot including parking revenue (see separate calculations)

Net Saleable

Pre Construction Costs

Upfront Compensation to Existing Tenants Tenant Relocation Allowance for Demolition of Existing Buildings (Allowance) Allowance for Remediation Site Preparation/Fill Standard Site Servicing Density Bonus Contribution Rezoning Costs

\$100,000 \$0 \$122,713

\$0



Appendix 7 - Exhibit 6 Continued:

Appendix 1 - Exhibit o continu	icu.			
Construction Costs				
Hard Construction Costs				
Market Strata Residential Area		\$300		
Rental 1 Residential Area		\$0 p	er gross sq.ft. of	rental residential area
Rental 2 Residential Area				rental residential area
Rental 3 Residential Area				rental residential area
Retail Area (shell space - no TI)			er gross sq.ft. of	
Office Area (shell space - no TI)				commercial area
Cost Per Garage/Underground Parking Stall	\$5	-	-	tructured parking stall
Overall Costs Per Square Foot			er gross sq.ft.	
Sustainability Premium		0%		
Total Estimated Cost per Square Foot		\$351		
Hard Cost Used in Analysis	¢45	\$351		\$20 and of site area on E00/ of site
Site Landscaping Electrical Charging Station	\$15	0,000 o \$0	Я	\$20 psf of site area on 50% of site - stations \$0 per station
Other		\$0		- stations go per station
Soft costs and Professional Fees			of hard costs land	dscaping and site prep/servicing costs
Development management				dscaping and site prep/servicing costs and soft costs
Fees, legal and survey for rental portion		\$0	i ridia ocoto, idii	accuping and one proprocessing cools and controls
Contingency on hard and soft costs			of hard, soft and n	nanagement costs
Car Share		\$0	rriara, son aria n	nunugement eeste
		40		
Government Levies				
GVS & DD Sewer Lew - Strata Apartment	\$	3,530 p	er apartment uni	t
GVS & DD Sewer Lew - Townhouse			er townhouse un	
GVS & DD Sewer Lew - Rental Residential	\$	3,530 p	er unit	
GVS & DD Sewer Levy - Commercial		\$2.67 p	er sq.ft. of comm	nercial space
TransLink - Strata Apartment Residential	\$	1,200 p	er market unit	
TransLink - Townhouse		\$0 p	er market unit	
TransLink - Rental Residential	\$	1,200 p	er unit	
TransLink - Commercial		\$1.25 p	er sq.ft. of comm	nercial space
Market Strata Apartment DCCs	\$	10.09 p	er sq.ft. of floors	pace
Market Townhouse DCCs		\$0.00 p	er sq.ft. of floors	pace
Rental 1 Residential DCCs	\$	10.09 p	er sq.ft. of floors	pace
Rental 2 Residential DCCs		\$0.00 p	er sq.ft. of floors	pace
Rental 3 Residential DCCs		\$0.00 p	er sq.ft. of floors	pace
Retail DCCs		\$4.21 p	er sq.ft. of floors	pace
Office DCCs		\$0.00 p	er sq.ft. of floors	pace
School Site Acquisition Charge		\$600 p	er unit	
Financing				
Interim financing			ssuming a	2.50 year construction period
Financing charged on			of land and	75% of construction costs
Financing fees		1.5%		
Commissions and Marketing				
Commissions on Strata Residential			-	arket residential revenue
Marketing on Strata Residential			-	arket residential revenue
Commissions on Sale of Commercial			of gross commerc	ial value
Commission on Sale of Rental Units		2.0% 0		
Initial Lease Up Costs on Rental 1 Units		2,000 p		
Initial Lease Up Costs on Rental 2 Units		2,000 p		
Initial Lease Up Costs on Rental 3 Units		2,000 p		
Leasing Commissions on Commercial Space			ersq.ft.	
Tenant Improvement Allowance on Retail Space			ersq.ft.	
Tenant Improvement Allowance on Office Space	•	50.00 p	er sq.ft.	
Other Costs and Allowances				
Net GST on Market and Below Market Rental Unit	s 3	3 20% 0	of capitalized valu	e of rental units
Net GST on Market and Below Market Rental Only				e of rental units est of new units (assumes rebate)
Property Taxes			of assessed value	
Assumed current assessment (Year 1 of analysis)		0,000	n assesseu value	
Assumed assessment after 1 year of construction		-	50% of complete	d project value)
Developer's Profit		-	of total costs or	13.0% of gross market revenue/value
	·			
School Tax Surcharge During Development*				
Tax Rate		0.2% b	etween \$3.0-\$4.	0.4% over \$4.0 million



Residential Portion of current assessment (Year 1 of analysis)

*Assumes BC Owner

Assumed residential portion of assessment after 1 year of constructio \$15,096,000 (50% of completed residential project value)

Appendix 7 - Exhibit 6 Continued:

Revenue	
Strata Sales Revenue	\$30,192,000
Rental 1 Value	\$0
Rental 2 Value Rental 3 Value	\$0 \$0
Gross Retail Value	\$2,553,158
Gross Office Value	\$0
Total Gross Value	\$32,745,158
Less Commissions on Strata Less Commissions on Rental	\$905,760 \$0
Less Commissions on Commercial	\$51,063
Net Sales Revenue/Value	\$31,788,335
Project Costs	
Upfront Compensation to Existing Tenants	\$0
Tenant Relocation	\$0
Allowance for Demolition of Existing Buildings (Allowance)	\$100,000 \$0
Allowance for Remediation Site Preparation/Fill	\$0 \$0
Standard Site Servicing	\$122,713
Electrical Charging Station	\$0
Density Bonus Contribution Rezoning Costs	\$0 \$0
Hard Construction Costs	\$21,075,000
Site Landscaping	\$150,000
Electrical Charging Station	\$0
Other Soft costs and Professional Fees	\$0 \$1,814,556
Development management	\$694,868
Fees, legal and survey for rental portion	\$0
Contingency on hard and soft costs	\$1,197,857
Car Share Marketing on Strata Units	\$0 \$905,760
Initial Lease Up Costs on Rental 1 Units	\$0
Initial Lease Up Costs on Rental 2 Units	\$0
Initial Lease Up Costs on Rental 3 Units	\$0
Leasing Commissions on Commercial Space Tenant Improvement Allowance on Retail Space	\$22,500 \$112,500
Tenant Improvement Allowance on Office Space	\$0
GVS & DD Sewer Levy - Strata Apartment	\$197,680
GVS & DD Sewer Levy - Townhouse	\$0
GVS & DD Sewer Levy - Rental Residential GVS & DD Sewer Levy - Commercial	\$0 \$12,015
TransLink - Strata Apartment Residential	\$67,200
TransLink - Townhouse	\$0
TransLink - Rental Residential TransLink - Commercial	\$0 \$5,625
Market Strata Apartment DCCs	\$560,006
Market Townhouse DCCs	\$0
Rental 1 Residential DCCs	\$0
Rental 2 Residential DCCs Rental 3 Residential DCCs	\$0 \$0
Retail DCCs	\$18,959
Office DCCs	\$0
School Site Acquisition Charge	\$33,600
Less property tax allowance during approvals/development Less School Tax Surcharge During Development	\$124,678 \$69,576
Interim financing on construction costs	\$1,275,727
Financing fees/costs	\$321,309
Less Net GST (assuming builder holds units) Total Project Costs Before Land	\$0 \$28,882,130
Developer's Profit	\$4,269,969
·	
Residual to Land and Land Carry	-\$1,363,763
Less financing on land during construction and approvals Less financing fee on land loan	-\$91,031 -\$8,591
Less property closing costs	-\$134,547
Residual Land Value	-\$1,129,595
Residual Value per sq.ft. of site	-\$75
Residual Value per sq.ft. of FSR	-\$19
Residual Value per sq.ft. of gross buildable floorspace	-\$19



Appendix 7 - Exhibit 6 Continued:

Retail Assumptions

Lease Rate NNN	\$27.50	psf per year
Monthly Parking Revenue (net of costs)	\$0	per month
Vacancy and Non Recoverable Allowance	2.00%	
Capitalization Rate	4.75%	

Capitalized Value per 1000 SF Gross

Rental Rev	\$27,500
Parking	\$0
Total	\$27,500
Vacancy	\$550
NOI	\$26,950
Capitalized Value	\$567,368
Value psf of net leasable space	\$567.37 psf



	BARRIER OF HIGH LAN							
FACILITATING MORE AFFORDABLE RENTAL CONSTRUCTION IN METRO VANCOUVER TRANSIT ORIENTED AFFORDABLE HOUSING STUDY PHASE 2								
DRAFT Co	oriolis Consulting Corp.	February 2019						

Purpose

Evaluate 4 approaches to making land available for rental housing

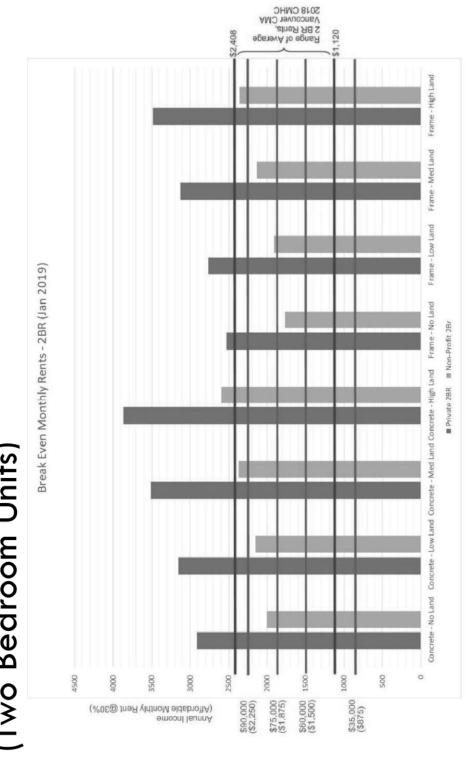
- Land and air space acquisition and deployment
- Density increases via density bonus or rezoning
- Zoning for rental-only housing
- Inclusionary housing requirements

Explore ways to improve delivery of new rental units

- Flexibility in meeting developer obligations for affordable housing
- . Alternatives for affordable rental unit ownership
- Mixed tenure, mixed income
- Increased coordination or centralization

Integrated planning for transit and affordable rental

Financial Barriers to Affordable Rental Construction (Two Bedroom Units)



Environmental Scan

- 1. Seattle and Los Angeles case studies
- 2. Local developer perspectives
- 3. Local non-profit perspectives
- 4. Municipalities in Metro

Local Government Measures to Encourage or Facilitate Rental Housing

	Port Coquittam	>		>	>	>	>	>		>	
	Pitt Meadows	>									
	North Vancouver District	>	>	>	>					>	
	North Vancouver City	>	>	>	>	>		>			
	New Westminster	>	>	>	>			>	>		
	Asple Ridge	>	>	>	>			>			
	Township of Langley	>	2 32	>	>	0		>			
Ī	City of Langley	>	>		>						
	Delta	>			>			>			
	Coquitlam	>	>	>	>	>	>	>			
	Витару	>	>	>	>	>	>	>	>	>	
Local Government Measures to Encourage or Facilitate Rental Housing		Allow secondary suites, laneway houses, and/or coach houses	Rental unit retention/replacement policiesa	Density increases linked to rental housing requirements (either via density bonusing or case-by-case negotiations as part of rezonings) ^b	Construction cost reductions: • Reduced parking requirements	Reduced municipal DCCs ^d	 Other cost reductions (e.g. permit fees)^d 	Approvals process assistance	Rental only zoninge	Offer municipal lands at less than market value	Direct investment in new rental housing

White Rock

Vancouver

Richmond

Ροπ Μοοσλ

Surey

West Vancouver

1. Acquiring and Deploying Land and Air Space

- Land already owned by local/regional government agencies
- Creative acquisition by local/regional government agencies
- Land already owned by non-profit sector, including those not currently in housing

2. Density Increase (Density Bonus and Community Amenity Contributions)

- New density for rental housing (no land value), and/or
- New strata density in exchange for rental housing benefits that offset cost of affordable housing
- Housing Agreements govern tenure, number and type of units, rents

3. Zoning for Rental Residential Use

- competitor for land and influence on land value Eliminates strata residential redevelopment as
- But does not eliminate existing use as driver of land value
- Controls tenure but not unit type or rent

Financial Analysis for Metrotown Example

Burnaby		Site Size:	55,000 Sq.Ft.	Sq.Ft.			
			eal I paitaiv∃	03 0	Rede	Redevelopment Land Value	alue
			EXISIII	9 CO 6	Wood Frame	Frame	Concrete
			Older Rental	Older Low	Strata	Rezoned to	Dozonod to
Scen	Scenario		Property (0.9	Density	Residential	Strata	Mixed Hee
			FSR)	Commercial (0.4	Under Existing	Residential	/DMEs of E 2
				FSR)	Zoning (RM3 at	(RM3s at 1.5	(KIMDS at 0.0
					1.1 FSR)	FSR)	(10)
Estimated Existing Value	Total		\$17,100,000	\$11,600,000	\$11,000,000	\$11,000,000	\$49,600,000
					to \$11,200,000	to \$11,200,000	to \$49,800,000
	PSFB Wood Frame	Before CAC	\$207	\$140	\$182 to \$185	\$182 to \$185	N/A
	Scenarios	After CAC			N/A	\$133 to \$136	N/A
	\$PSFB Concrete	Before CAC	\$58	\$40	N/A	N/A	\$254 to \$255
	Scenarios	After CAC			N/A	N/A	\$170 to \$171
Market Rental Land Value Wood Frame	Total		\$9,500,000	\$9,800,000	\$9,500,000	\$9,500,000	N/A
with no CAC (1.5 FSR) ¹					to \$9,800,000	to \$9,800,000	
,	\$PSFB	3	\$116	\$118	\$116 to \$118	\$116 to \$118	N/A
Mixed Use Market Rental Land Value	Total		\$9,300,000	\$9,600,000	N/A	N/A	\$9,300,000
Concrete with no CAC (5.3 FSR) ²							to \$9,600,000
,	\$PSFB	3	\$32	\$33	N/A	N/A	\$32 to \$33
Break Even Rent as a Percent of Market	Wood Frame	ame	%62	%82	78% to 79%	78% to 79%	N/A
With No Land Cost Assuming no CAC	Concrete	te	94%	84%	N/A	N/A	94%
Density of Rental Required to Support	Wood Frame	ame	2.40	1.80	1.70	2.70	N/A
Estimated Existing Land/Building Value	Concrete	te	11.00	7.70	N/A	N/A	Not Physically
Assuming No CAC							Possible
Break Even Rent as a Percent of Market	Wood Frame	ame	73%	72%	72% to 73%	72% to 73%	N/A
with No Land Cost Assuming no CAC	Concrete	te	%76	85%	N/A	N/A	%26
(Assume No /Rezoning/Servicing/Demo/Landscaping							

4. Inclusionary Housing Requirements

- Requires % of units at specified rent (geared to income)
- Reduces NOI, so reduces ability to acquire land and can push projects below breakeven
- Almost always used combined with density increase to offset costs

Approach	Effectiveness	Making it Work
Deployment of lands owned by local government or non-profits	Yes if land owner foregoes land value	Use lands for multiple objectives
Acquiring more land	Limited by resources	Buy land before major comprehensive planning/rezoning Buy land in transit construction projects
"Rental only" Zoning Without Density Increase	Postpones redevelopment in most locations Cannot control rents or unit types	Add density for market rental
"Rental only" Zoning With Density Increase	Rental density layered onto existing strata density Entire site zoned rental, density increased to generate land value	Challenge finding locations where extra density acceptable and viable Best prospects in wood frame construction Can't control rent without Housing Agreement
Inclusionary Zoning Without Density Increase	Will not work in all-rental without major financial assistance Mandatory inclusion in strata viable in some locations but risks reducing the pace of development if sites shift from development to holding property.	Not possible under existing legislation Challenge combining strata and rental
Inclusionary Zoning With Density Increase	Extra density can make the numbers work, with significant component of market rental	Large density increases Requires Housing Agreement to control rent and unit type, so
Using rezoning tools to obtain land or affordable housing	Prevalent and successful Widely applicable in Metro Extra density funds affordable housing and Housing Agreement dictates rents, units	More density and advance planning Reduced approval risk Transparent, predictable approaches Priority-setting and trade-offs for housing and other benefits

Best Approaches to Increase Supply

- Creative land and air space deployment
- for strata to fund affordable housing, combined Increased density for rental (no land cost) and with Housing Agreement to define affordable housing (number of units, type of units, rents)
- Aim for stand-alone rental buildings

Ways to Improve Delivery of New Rental Units

- 1. Flexibility in meeting developer requirements
- Alternatives for affordable rental unit ownership

Turnkey Versus Developer Ownership

		Net operating income after				Loss to developer	Number of units that can
Household		expenses of		Implied value		per unit	be provided
income	Monthly	\$5,500 per		of the rental	Construction	, , , , , , , , , , , , , , , , , , , ,	for
target	rent	year	Cap rate	unit	cost		\$440,000
\$60,000	\$1,500	\$12,500	4%	\$312,500	\$440,000	\$1 <i>27,</i> 500	3.5
\$35,000	\$8 <i>75</i>	\$5,000	4%	\$125,000	\$440,000	\$315,000	1.4

- Mixed tenure (strata + rental)
- 4. Increased coordination or centralization

Integrated Planning for Transit and Affordable Housing

- Look beyond rapid transit stations
- Strategic land acquisition
- Advance station area and corridor planning

Page 264 of 347 to/à Page 269 of 347

Withheld pursuant to/removed as

s.13; s.16



BRIEFING NOTE FOR DECISION

Date: June 13, 2019

Prepared For: Kaye Krishna, Deputy Minister, Ministry of Municipal Affairs and Housing

Title: Affordable housing and TransLink's rapid transit projects

Issue: Implementation of Minister's mandate to ensure affordable housing and density is

facilitated along rapid transit project corridors.

s.13; s.16; s.17

BACKGROUND:

There are three planned or potential rail rapid transit projects in Metro Vancouver, which present opportunities for increased affordable housing and density along the project corridors:

- TransLink is currently working on the proposed scope, schedule and cost estimate for Surrey-Langley-SkyTrain (SLS) along the Fraser Highway corridor.
 - o s.13; s.16
- The Province is providing funding support for a feasibility study of a rapid transit connection between the Burrard Peninsula and the North Shore.

s.13; s.16

•

- Currently, TransLink and the city are engaged in Arbutus-UBC SkyTrain Design Development and Pre-Business Case work.
- The Province sits on a number of project boards governing this work, including the Partner

s.13; s.16

agreement between TransLink and Vancouver for the Broadway Subway extension to Arbutus, are being used in part to promote densification and affordable housing. For example, the SPA for the now-suspended Surrey-Newton-Guildford Light Rail Transit (SNG LRT) committed the city to creating affordable housing targets; incentivizing affordability; and identifying government-owned sites for affordable housing.

s.13



DISCUSSION:

Existing SPA Framework

To ensure the Broadway Subway Project and SNG LRT met provincial expectations for affordable housing, in 2018 the Province worked with TransLink and the cities of Vancouver and Surrey to be added as a participant to the monitoring committees for the SPAs. The Province was not a signatory to the agreements.

The Vancouver SPA includes planned collaboration with TransLink and the Province on an Affordability Strategys.13; s.16

s.13; s.16

s.13; s.16

Both the Surrey and Vancouver SPAs state, that it is the cities' responsibility and mandate to develop and approve land use plans and housing policies, deferring the creation of targets to future planning work.

Regional Growth Strategy

 $Metro\ Vancouver\ is\ currently\ preparing\ to\ review\ and\ update\ its\ Regional\ Growth\ Strategy\ (RGS),\ s.13;$

s 12: s 16 s.13; s.16

Local governments are also required to complete

housing needs reports by April 2022.

s.13; s.16

s.13; s.16

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APPROVED (recommended option) /	NOT APPROVED	
Kathryn Krishna, Deputy Minister	Date	
Attachments (1): Policy Ideas for Fut	ure Consideration	
PREPARED BY:	APPROVED BY:	DATE APPROVED:
Stephen Harrison, Senior Policy Analyst Community Policy and Legislation Branch (778) 698-9368	David Curtis, ADM Community and Management Services	

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BRIEFING NOTE FOR DECISION

Date: May 24, 2019

Prepared For: Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Title: Affordable housing for Surrey-Langley-SkyTrain

Issue: s.13

RECOMMENDED OPTION:

Briefly summarize the recommended option in one sentence.

- Provide recommendations with qualifications, such as advice, recommend, etc. To distinguish recommendations from factual information contained in this section to simplify FOIPPA severing under access legislation.
- This section to be in bold.

BACKGROUND:

TransLink is currently working on the proposed scope, schedule and cost estimate for Surrey-Langley-SkyTrain (SLS) along the Fraser Highway corridor.

The corridor contains a diverse mix of employment and residential uses within the established neighbourhoods of Fleetwood Town Centre and East Clayton, as well as the emerging urban communities in West Fleetwood, West Clayton, and East Cloverdale. It also includes environmentally sensitive areas such as Green Timbers Urban Forest, the Serpentine River and Agriculture Land Reserve (ALR) lands.

According to a report submitted to Surrey city council in April, the city is working on background studies and analytics on land use in the corridor. City staff will provide TransLink with preliminary population, dwelling unit and employment growth forecasts during this initial planning phase. The city will also be working on amendments to its Official Community Plan; a density bonus and community amenity contribution review; and an affordable housing strategy.

The city will approve its draft land use plans by summer 2020, with final approval by fall 2021. The city plans to consult the Province as part of this process.

TransLink is also working with the city to ensure there are adequate and timely measures to promote densification and affordable housing along the corridor. $^{\rm s.13}$; $^{\rm s.16}$ s.13; $^{\rm s.16}$

DISCUSSION:

The Province's 30-Point Housing Plan includes a goal to increase density and affordable housing around TransLink stations. In 2018, to ensure the upcoming rapid transit projects met those provincial expectations, the Province worked with TransLink and the cities of Vancouver and Surrey to be added as a participant in the SPAs for the Broadway Subway Project the now-suspended Surrey-Newton-Guildford Light Rail Transit (SNG LRT) project.



To track the provincial interest in affordable housing and density, the Province is taking part in Vancouver's SPA Monitoring Committee, which will review annual reporting metrics. The Vancouver SPA also includes planned collaboration with TransLink and the Province on an Affordability Strategy. The Province expects that similar measures will be included in an SLS SPA.



s.13; s.16; s.17

OPTIONS:

Provide viable options in this section.

Each option MUST include pros and cons.

If relevant, key stakeholder reactions for each option should be summarized.



Information usually included:

- o The status quo is usually presented as an option;
- Present realistic options, each with consistent analysis, including those not being recommended;
- Include examination of costs and benefits;
- o Clearly identify client, financial and service implications and state if there are none.
- Precede recommendations from factual information contained in this section and simplify FOIPPA severing under access legislation.

1. A sentence summarizing Option 1(then OPTION 2, then, if needed, OPTION 3, etc.)

Example of a recommended option (i.e. status quo)

 Precede recommendations with qualifications such as advice, recommend, etc. To distinguish recommendations from factual information contained in this section and simplify FOIPPA severing under access legislation.

Pros: Cons:

- Does not require additional resources (human, financial etc)
- Develops partnership with key stakeholder groups
- Ministry will not be responding to an emerging issue;
- Defers; does not resolve the issue

RECOMMENDATION:

Indicate the Option (no description).

Community Policy and Legislation Branch

(778) 698-9368

A	PPROVED	(recommended	option)	/ NOT	APPROVE

Honourable Selina Robinson	Date	
Attachments:		
1. Fraser Highway SkyTrain corn	ridor map	
PREPARED BY:	APPROVED BY:	
Stephen Harrison, Senior Policy Analyst	David Curtis, ADM	

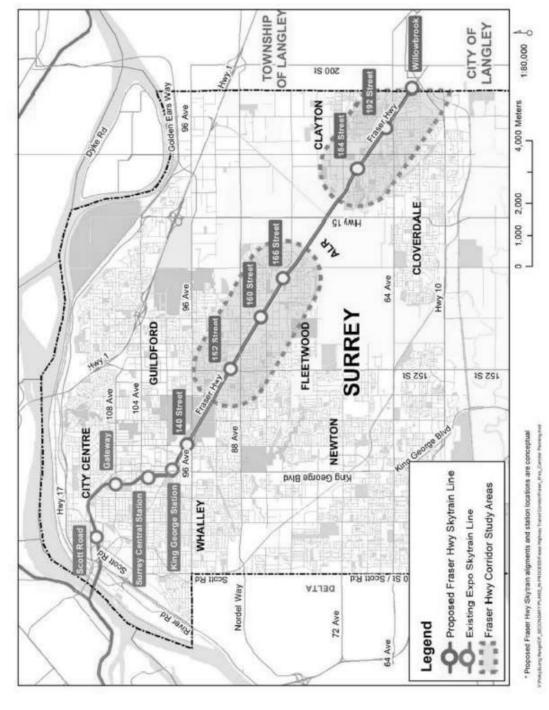
APPROVED BY: DATE APPROVED:

David Curtis, ADM
Community and Management Services

Kathryn Krishna, Deputy Minister

Attachment 1: Fraser Highway SkyTrain corridor map

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Regional Transportation Strategy TransLink/Province of BC Coordination Meeting

March 28, 2019

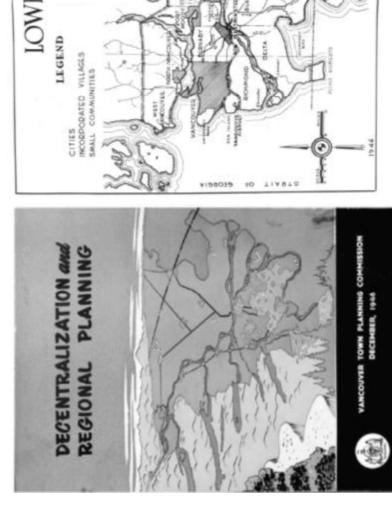


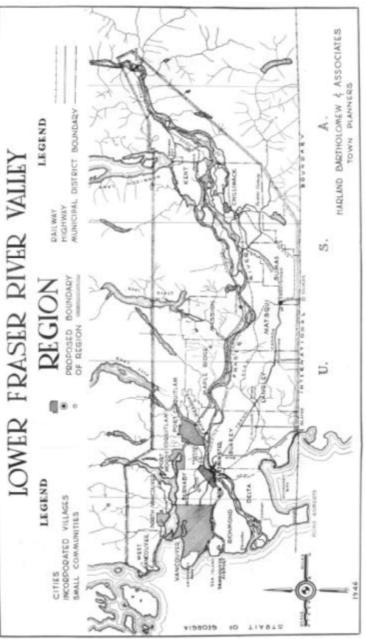
Meeting agenda

- Context and background: history of long-range transportation planning in Metro Vancouver
- .. Current project: Transport 2050
- Areas of mutual interest (TransLink/Province) ო
- 4. Project schedule
- Identify key provincial milestone
- 5. Technical work program
- Determine Provincial role/involvement in key activities
- 6. Next steps
- Confirm structure and process for proposed joint project committee



We have a long history of regional planning in Metro Vancouver



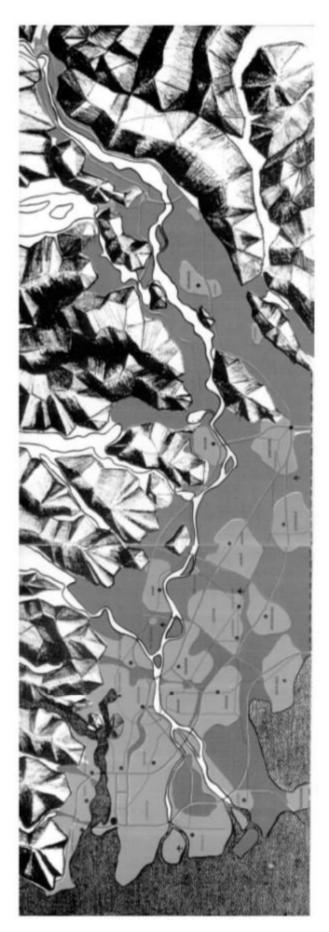


Vancouver Town Planning Commission, 1946

Decentralization and Regional Planning



"Cities in a Sea of Green, Connected by In the 1960s, the regional concept was Highways"



Cities in a Sea of Green, Connected by Highways

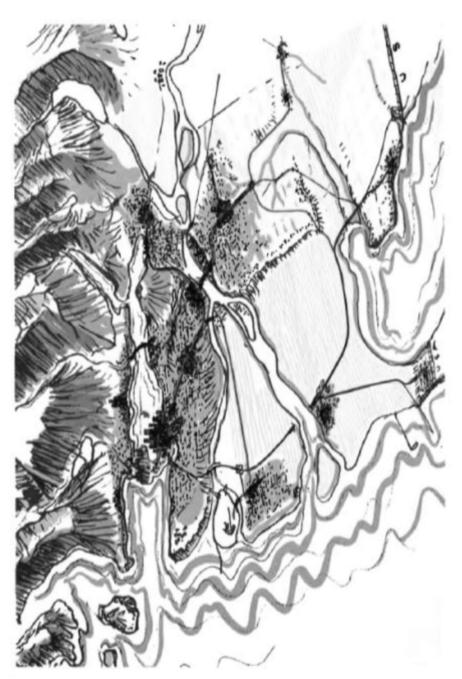
Lower Mainland Regional Planning Board, Regional Concept 1963



In 1975, the region chose a different path: "Cities in a Sea of Green, Connected by Transit"



GVRD Livable Region Plan, 1975



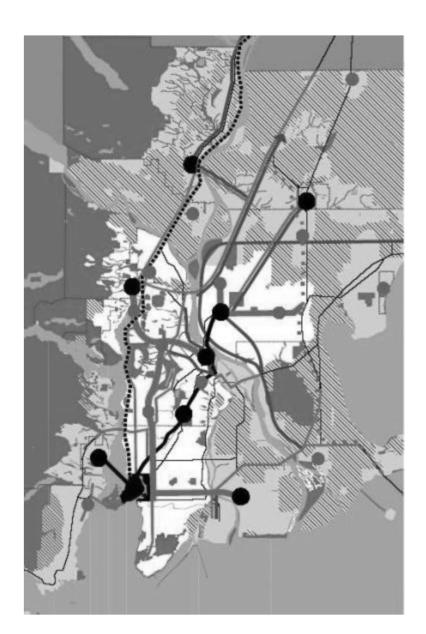
Cities in a Sea of Green, Connected by Transit



In the early 1990s, T2021 and the LRSP laid out a clear framework for long-term growth and transit investment







GVRD - Livable Region Strategic Plan (1996) GVRD & Province of BC – Transport 2021 (1993)



joint plan between the region and the Province Region's network functions as an integrated whole. In recognition, Transport 2021 was a

Steering Committee Members

B. E. (Ben) Marr, GVRD Regional Manager and Chair, TRANSPORT 2021 Steering Committee

J. D. (Doug) Allan, Municipal Manager,

District of West Vancouver

R. W. (Bob) Collier, Municipal Administrator, Corporation of Delta

N. A. (Norm) Cook, Municipal Manager, District of Coquitlam

J. C. (John) Dyble, Regional Director, Ministry of Regional Economic Development, Small Business & Trade

B. R. (Bruce) McKeown, Assistant Deputy Minister, MoTH²

L. R. (Len) Roueche, Manager, Planning and Research,

B.C. Ferry Corporation

G. (Glen) Leicester, Acting Vice-President, Marketing and Transit Planning, B.C. Transit

D. H. (David) Rudberg, City Engineer, City of Vancouver

Project Team

M. L. (Martin) Crilly, TRANSPORT 2021 Project Director

P. C. (Paul) Lee, GVRD Strategic Planning and TRANSPORT 2021 Technical Director

J. (Jim) Chim, GVRD Strategic Planning

S. (Stephen) Gardner, BC Transit Transportation Engineering

R. M. (Rob) Hodgins, City of Vancouver Engineering

G. L. (Lynn) Kimmins, TRANSPORT 2021 Administrative

K. W. (Karoly) Krajczar, GVRD Strategic Planning

R. A. (Ross) Long, IBI Group and TRANSPORT 2021 Team Member

D. G. (David) Marr, MoTH South Coast Region

S. M. (Susan) O'Connor, MoTH Headquarters

C. G. (Chris) Voigt, GVRD Air Quality and Source Control



joint plan between the region and the Province Region's network functions as an integrated whole. In recognition, Transport 2021 was a

reface

TRANSPORT 2021 and its Objectives and Related Plans About This Report

Steering Committee and Acknowledgements Where Are Current Trends Leading?

Today's System

Expectations and Goals for the Transport System "Business As Usual" Consequences

1. How Can the Trends Be Changed?

1. Control Land-use

Livable Region Strategy for Growth Management Neighbourhood Land-use Strategy Land-use Policies Endorsed by TRANSPORT 2021

2. Apply Transport Demand Management Transportation Demand Management Recommended Policies

3. Adjust Transport Service Level

Recommended Service Level Policies

4. Supply Transport Capacity
Transport Supply Strategies
Transport Supply Policy Recommendations
Recommended Future System Maps

C. What Will The Plan Achieve?

A Numerical Assessment of the Plan's Performance Capital Costs and Affordability

D. Keeping Options Open Surprises Since 1960

Sources of Uncertainty Coping With Uncertaint

Coping With Uncertainty

E. What Commitments Are Required—By Whom? Appendix 1: Public Communications Programme

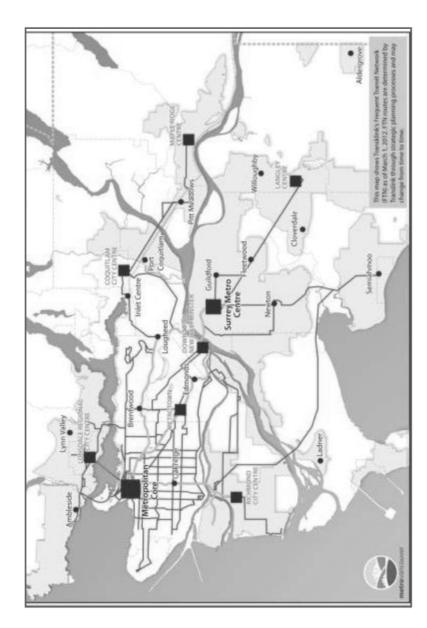
Appendix 2: Publications

Working Papers

Subsequent plans consistently reinforced and built on this vision of a compact, transitoriented region







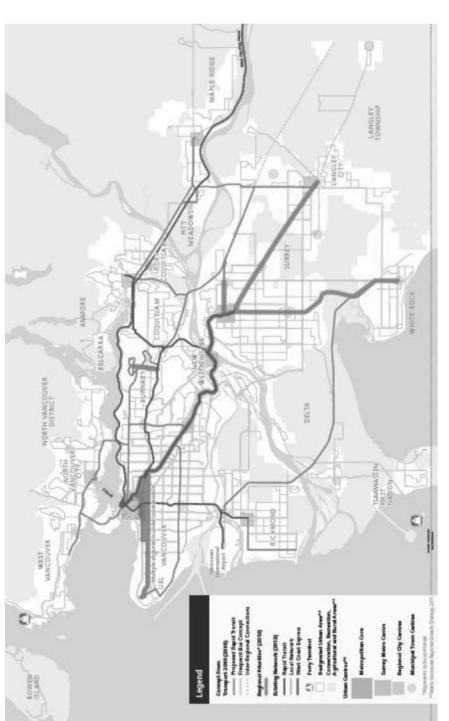
Metro Vancouver – Metro 2040 (2011) TransLink – Transport 2040 (2008)



The current long-term transportation strategy was prepared in two parts: a 30-Year Framework & a 10-Year Vision







Regional Transportation Strategy | 30-Year Strategic Framework (2013)



investments envisioned 25 yrs ago in Transport With the completion of the 10-Year Vision, we will have built out all of the major transit 2021.







Regional Transportation Investments | 10-Year Vision (2014)

What should be our big moves over the next 30 The next update to the RTS is due in 2020.

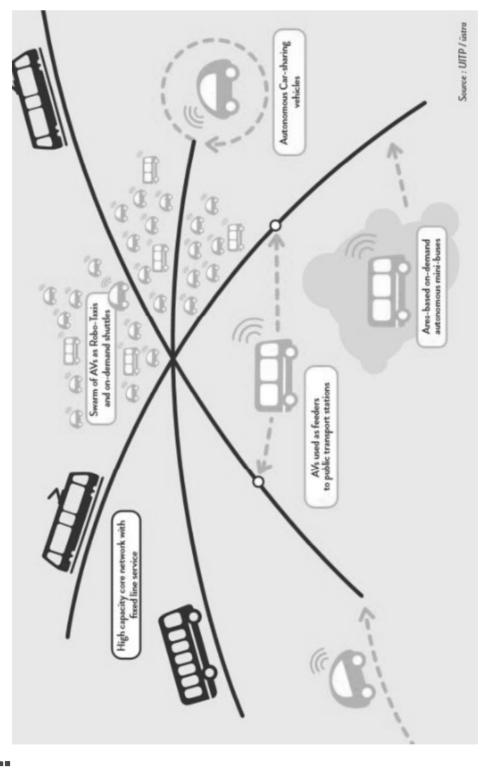
years?



Graphic Source: 2012 Rapid Transit Strategic Network Review, TransLink / SDG



What should be our big moves over the next 30 The next update to the RTS is due in 2020. years?



Graphic Source: www.uitp.org/sites/default/files/cck-focus-papers-files/PolicyBrief_Autonomous_Vehicles_LQ_20160116.pdf

We have been asked to "think big, think different" in developing the RTS update

The TransLink have directed to staff that the RTS update should be:

- · Compelling, future-oriented
- Concrete actions grounded in reasonable assumptions
- Provide the space to "think big"
- Focus on customer experience
- Articulate TransLink's role in the new mobility landscape
- Achieve agreement on a desired transportation future
- Engage broadly in a meaningful process

Three key questions for the RTS to address

- What is important to the region as we think about transportation in Metro Vancouver over the next 30 years?
- management] to ensure that new technology supports the region's What changes do we need to make [in governance, funding and overall goals?
- What investments do we need to make to achieve our transportation goals and how do we pay for them? <u>.</u>



interest that could be explored/addressed through TransLink and the Province share areas of mutual the RTS update

- Tighter coordination between transportation, land use, and economic development planning to improve livability, prosperity and affordability;
- Ensuring abundant supply of affordable housing in proximity to frequent transit;
- Developing a future concept for growing and managing network of roads, highways, and transit that serves Metro Vancouver and connects with the Fraser Valley and Squamish-
- Identifying future major regional transportation projects for further analysis;
- Ensuring efficient and reliable goods movement that is also cleaner, safer, and quieter;
- Ensuring the protection of important lands including agricultural and industrial;
- Identifying the respective policies that will be necessary to meet provincial and regional
- Ensuring that new technologies like transportation network companies and automated vehicles are planned and regulated in ways that help to reinforce and not harm our shared objectives.



Developing the strategy using a structured decision making process

"What's at stake?"

Define problem and

opportunities

"What's important?" Define goals and objectives, evaluation framework

"What options do we have?" Develop ideas and portfolios

"How do

our portfolios perform?" Evaluate portfolios and make decisions on trade-offs

"What's our strategy?" Agree on preferred portfolio and develop strategy



RTS process and major decision points

Q3 2018	Q4 Q1	19	Q2 2019	Q3 2019	Q4 2019	Q.1 2020	2020	03 2020	3840	2020
Activity 1: Understand the context issues: what's at stake?	Activity 1: Understand the context and define the issues: what's at stake?	\Diamond	Deliverables 1 + 2: What's at Stake Report Long Range Scenarios Report	2: Report narios						
			Public consultation 1: Vision, values, ideas	ic consultation 1: n, values, ideas						
	Acti Defi	Activity 2: Defining what's im goals, objectives	nportant: regior	Activity 2: Defining what's important: regional mobility vision, goals, objectives	\Diamond	Deliverable 3: Regional mobility vision, goals, objectives				
	Acti Gen tran	Activity 3: Generating ideas: transportation pol	Activity 3: Generating ideas: develop a long-list of transportation policies and ideas	-list of myandre med a		Deliverable 4:				
			Activity 4: Develop and evaluate po actions and investments	rtfolios	t of policies,		Public consultation 2: Portfolios/ trade-offs	72.		
						Activity 5: Select and refine preferred portfolio	referred RTS Balting Blook 4	Public consultation 3: Droft strategy	r1	
				Activity 6: Develop draft strategy	AS.		F 4 collision Block 7	\Diamond	Activity 7: Develop final strategy	\sim



Deliverable 6: Final strategy

Deliverable 5: Draft strategy

ACTIVITY 1: Understanding the context, problems, and opportunities

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
1	Plans and Strategy Progress	ТВС
2	Current Context: Mobility and Transportation	ТВС
3	Current Context: Environment, Economy, Health and	TBC
	Well-Being	
4	Long Range Growth and Transportation Planning	TBC
	Scenarios	
5	What's At Stake Report: Phase 1 Engagement Discussion TBC	TBC
	Guide	



ACTIVITY 2: Develop regional mobility vision, goals, and objectives

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
1	Equity and Affordability Review	TBC
2	2 Resiliency Review	TBC
3	3 Strategic Framework Review	TBC
4	4 Updated Strategic Framework Development	TBC
5	5 Alternatives Evaluation Guidelines	TBC
9	6 Evaluation Framework Development	ТВС

ACTIVITY 3: Develop a long-list of transportation policies and ideas

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
Н	Transit: Strategic Policy Assessment, Network Review and Idea	TBC
	Development	
2	Access Transit: Strategic Policy Assessment, Network Review and	TBC
	Idea Development	
3	Inter-Regional Rail: Strategic Policy Assessment, Network Review	TBC
	and Idea Development	
4	Active Transportation: Strategic Policy Assessment, Network Review	TBC
	and Idea Development	
5	Road Network: Strategic Policy Assessment, Network Review and	TBC
	Idea Development	
9	Road Network: Regional Parking Study	TBC
7	New Mobility: Strategic Policy Review and Idea Development	ТВС
8	New Mobility: Active Shared Mobility Policies and Guidelines	TBC
	Development	



ACTIVITY 3: Develop a long-list of transportation policies and ideas (continued)

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
6	Mobility Pricing: Policy and Concept Development	TBC
10	Customer Experience: Mobility-as-a-Service Strategic Options	TBC
	Assessment	
11	Customer Experience: Strategic Policy and Initiatives Review	TBC
12	Goods Movement: Strategic Policy Review and Idea Development	TBC
13	Funding: Regional Funding Strategy	TBC
14	System Management: Roles and responsibilities	TBC



ACTIVITY 4: Develop and evaluate alternative portfolios

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
1	Establish portfolio development process	TBC
2	Transportation model refinements and updates	TBC
3	Portfolio development – long list	TBC
4	Portfolio model runs	TBC
5	Portfolio evaluation	TBC
9	Portfolio development – short list for consultation	ТВС

ACTIVITY 5: Select and refine preferred portfolio

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
[Compile and review Phase 2 public consultation input	ТВС
2	Refine portfolios, as required	TBC
3	Model refine portfolios, as required	ТВС
4	Decision process with policy makers to determine	TBC
	preferred portfolio	



ACTIVITY 6: Develop draft strategy

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
1	Develop strategy outline	твс
2	Write draft strategy	твс

ACTIVITY 7: Develop final strategy

	ACITIVITY	PROVINCIAL ROLE/ INVOLVEMENT
1	Compile and review Phase 3 public consultation input	ТВС
2	Update/refine draft strategy and preferred portfolio	TBC
	draft strategy with consultation input and other	
	refinements	
	Finalize strategy document	TBC

Scope

- Anything missing from topics?
- Most important to be included in scope of Coordinating Cttee?



Coordinating Committee – Process & Format

- Structure?
- First meetings?
- How will Senior Exec liaise and coordinate appropriately?
- Senior staff involvement in appropriate working groups?
- Inter-Ministry liaising?
- Partnership principles?
- More formal agreement on process, material review etc.?
- Other?



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s.12; s.13; s.17

Page 331 of 347 to/à Page 335 of 347

Withheld pursuant to/removed as

s.13; s.17

MINISTER:	DATE:

KEY CONTACTS	NAME	PHONE
DEPUTY MINISTER	JACQUIE DAWES	250-387-9108
EXECUTIVE FINANCIAL OFFICER	TRACY CAMPBELL	250-387-8705
PROGRAM CONTACT	KEVIN VOLK	250-387-4042
OTHER		



BULLETS

Date: May 12, 2019

Prepared For: Kathryn Krishna, Deputy Minister of Municipal Affairs and Housing

Topic: Regional Transportation Strategy Principals Coordinating Committee Preparatory Meeting

Meeting Date: May 13, 2019

Attendees: • Kevin Desmond, CEO, TransLink

Mike Buda, ED, Mayors' Council

Geoff Cross, VP Transportation Planning & Policy, TransLink

Andrew McCurran, Director Strategic Planning and Policy, TransLink

Carol Mason, Chief Administrative Officer, Metro Vancouver

Neal Carley, General Manager, Planning and Environment, Metro Vancouver

DISCUSSION:

This meeting is to discuss the purpose and format of the Transport 2050 Principals Coordinating Committee. The draft agenda points for discussion are as follow:

1. Principals Committee Purpose & Scope

- a. Decision Milestones
 - Kevin Desmond has expressed that it is important to ensure the Committee has a meaningful purpose and clear mandate.
 - MAH Staff comments: Having MSR and PS Ma involved in the discussions
 will allow time for them to discuss relevant issues and topics with their
 colleagues so that they can bring a broader provincial perspective to the
 region.
 - Additionally, it will provide a forum for more proactive sensitive conversations around upcoming difficult discussions pertaining to issues such as mobility pricing.
 - TransLink and MAH staff have discussed that the Committee will have several useful outcomes:
 - It will valuable to ensure that the provincial objectives are considered
 early in the development of the pieces of the RTS. This will ensure that
 when TransLink comes back to the Province and Federal governments
 with funding or legislative proposals, they will be more likely to be
 aligned with provincial objectives.

b. Org Chart

TransLink and MAH staff discussed the attached (see Attachment 1) organization chart on May 10. This version has been revised since discussing with DM Krishna on May 10th. MAH staff are supportive of the proposed revised version.



2. Principals Committee Format & Frequency

- TransLink and MAH staff discussed Option 1 on May 10, (as discussed with DM Krishna) and agreed it is the recommended option.
 - a. Decision Milestones
 - As described in Option 1, the Principals committee would meet at key decision milestones, ahead of decisions made by the Mayors' Council.
 - b. Terms of Reference
 - o MAH staff support draft terms of reference, no concerns.

3. Principals Committee Staff Support & Administration

• See Attachment 1 for proposed structure. MAH staff support this proposal.

4. Next Steps

• See Attachment 1 for proposed next steps. No further comment from MAH staff.

Potential Issues that May Arise During the Meeting:

- Extent of representation of TransLink and Metro Vancouver senior official on the Principles Gathering
- General agreement that the Executive Steering Committee and staff will collaboratively seek to resolve shared issues of concern prior to escalation to Principles Gathering members.
- Nature and characterization of the provincial role (linked to Logo below involved and support role similar to May 27th invitation materials)
- Sustainable funding framework
 - On a May 10 teleconference, TransLink staff mentioned to MAH staff that they
 will be looking for an endorsed sustainable funding framework for future
 investment plans.
 - This would be an independent but parallel stream (in-between the Phase Three talks and RTS).
 - There are no materials yet on this topic, but it might be modelled on the 2010 MOU between the Province and TransLink on this topic (see Attachment 2).
- Integration with the Regional Growth Strategy
 - MAH staff in CMS and LGD have been working closely to ensure that the work on the RTS and RGS is coordinated to avoid duplication and outcomes that are not integrated.
 - Metro Vancouver has raised concerns about the overlap. MAH staff are discussing directly with Metro Vancouver to prevent overlap where possible.
- o The appropriate role for Minister Trevena
 - MAH and MOTI staff are working closely together to determine preferred level of participation.



- Whether all meetings are exclusively in-camera for inter-governmental coordination or if there a role for occasional public meetings.
 - MAH, MOTI and TransLink staff recommend in camera only.

Decision Points

- Confirm name, membership and broad purpose of Committee.
- Confirm whether provincial logo will appear on materials (would require funding).
- Timeframe and process for first meeting

PREPARED BY:

APPROVED BY:

DATE APPROVED:

Jodi Dong, Executive Director (250) 216-7407 David Curtis, EFO & Assistant Deputy Minister Community and Management Services

May 12, 2019



ATTACHMENT 1: (Initial Draft sent May 10 to MAH staff from TransLink staff)

Coordination Between Provincial, TransLink, and Metro Vancouver Principals DRAFT FOR DISCUSSION | May 10, 2019

PURPOSE

To outline a proposal for establishing better coordination and alignment between the Province, Metro Vancouver and TransLink on decisions related to regional transportation, land use, and economic development planning.

BACKGROUND

Successful regions typically feature high degrees of coordination between transportation, land use, and economic development planning. In the Metro Vancouver region, responsibility for these areas is shared and overlapping between the Province, Metro Vancouver, and TransLink. Each organization has recently released or is actively working on related initiatives:

- TransLink is leading the development of Transport 2050, a new regional transportation strategy;
- Metro Vancouver will shortly be developing Metro 2050, an updated regional growth strategy;
- The Province has released or is actively working on several initiatives related to transportation, land use and economic development including:
 - CleanBC (emissions reduction),
 - TogetherBC (poverty reduction),
 - Strategies around enabling more affordable housing
 - Strategies supporting the Pacific Gateway economy, the creative economy, and the tech/emerging economy;
 - Plans under development for the provincial transportation network and for active transportation; and
 - Legislative and regulatory changes to enable Transportation Network Services and eventually automated vehicles.

DISCUSSION

With 54% of the Provincial population located in Metro Vancouver and 64% located in the broader South Coast Region, the functioning and well-being of this region is intimately tied to the functioning and well-being of the Province. In addition, the Metro Vancouver region, the province and the world in general are facing a period of rapid technological and economic change over the next 30 years. Coordinating our respective long-range planning efforts is as important now as ever.

To enable this coordination, a regular gathering of the principals from TransLink, Metro Vancouver, and the Province is proposed.



Mandate

The purpose of this regular gathering would be to support greater alignment and coordination between transportation, land use, and economic development policy in the South Coast Region to improve livability, prosperity and affordability. The gathering would be an opportunity for the principals to:

- Provide **authentic and informed input** on key issues, especially those requiring collective action but that currently lack consensus on appropriate solutions.
- Provide early input into Transport 2050 proposals as they are under development in order to better inform subsequent decision-making by the Mayors' Council and TransLink Board.
- Eventually provide **early input into Metro 2050** proposals as they are under development in order to better inform subsequent decision-making by the Metro Vancouver Board.
- Build **first-hand understanding** on the issues, perspectives, and trade-offs so that they are better equipped to advance proposals with their colleagues within their own organizations.
- Build stronger working relationships and trust to minimize potential future misunderstandings, issues or conflicts.
- Enable **smoother approval** of subsequent proposals (whether for Provincial legislative change, investment or funding support).

Scope

Key topics for discussion by the Principals could include:

- Making life more affordable, especially for low-income residents including:
 - Policies and investments to best ensure an abundant supply of affordable housing in proximity to frequent transit;
 - Expanded transportation discounts (fares, fees, charges) for low-income residents;
 - Considering how to most equitably distribute transportation costs and benefits.
- 2. Providing more **transportation choices** for people and goods including:
 - Developing a future regional network concept for roads and transit;
 - Enabling better and more seamless transit connections, including fare integration opportunities and expanded regional passenger rail across the South Coast region;
 - Ensuring that cross-border high-speed rail planning supports ambitions for expanded freight rail and regional passenger rail capacity within the South Coast region;
 - Ensuring long-term sustainable funding for needed regional investments.
- 3. Making travel safer and more reliable including:
 - Ensuring that private Transportation Network Services, automated vehicle fleets, and other new mobility options are regulated in ways that advance the public interest and mitigate negative impacts, including congestion;



- Tackling congestion with a meaningful approach to decongestion charging;
- Smart city and digital transformation initiatives (e.g. dynamic road network management, Mobility-as-a-Service) and associated data governance issues
- How to meaningfully advance a Vision Zero agenda.
- 4. Securing **jobs and food** for future generations including:
 - Policies and investments to protect and enhance agricultural land and industrial lands.
 - Policies to ensure a "just transition" for the workers whose jobs will be disrupted by the spread of automation, in commercial transportation and other sectors.
- 5. Mitigating and adapting to **climate change** including:
 - Policies and investments to advance the CleanBC emissions targets in buildings and passenger and freight transportation;
 - Approach to land use and investment decisions in areas most vulnerable to flooding and sea-level rise;
 - Funding strategy to transition Province and region away from fuel-sales tax revenues.

Staff Support

Senior Executives would meet in advance of each Principals' gathering to set the agenda, discuss key issues, and make recommendations for consideration in advance by the Principals. These pre-briefings would allow the Principals to focus their time on meaningful discussion rather than on listening to staff presentations.

Senior Executives would take input from each gathering of the Principals to their respective decision-making bodies in order to inform their deliberations.

In addition, Provincial and Metro Vancouver staff would be invited to participate at various levels of existing Transport 2050 management committees. A proposed organization structure is shown in Attachment 1.

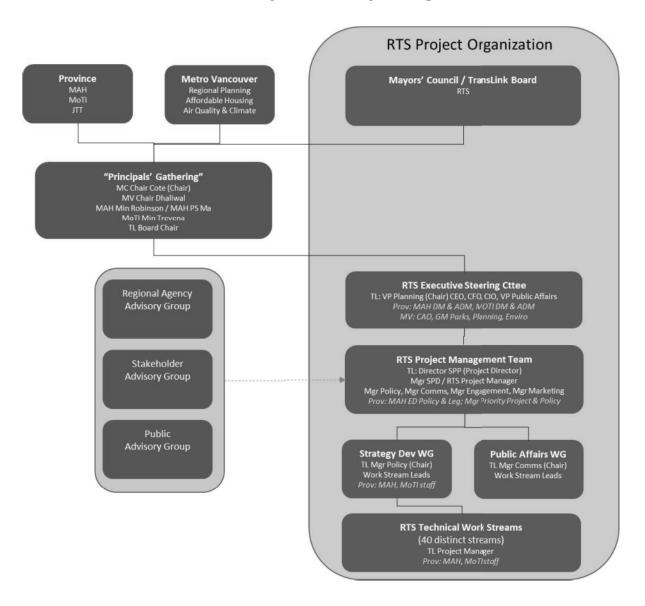
Next Steps

A first meeting of the Principals is proposed for June 2019 with the following agenda:

- 1. Timeline:
 - a. Key milestones for Transport 2050, Metro 2050, key Provincial initiatives
- 2. Scope:
 - a. Key topics and issues of interest to the Principals
- 3. Structure:
 - a. Proposed Terms of Reference
 - b. Meeting Format & Frequency



ATTACHMENT 1: Transport 2050 - Proposed Organization Structure





ATTACHMENT 2

MEMORANDUM OF UNDERSTANDING BEWEEN THE PROVINCE AND THE MAYORS' COUNCIL ON REGIONAL TRANSPORTATION

- A. The Province of British Columbia and municipal governments in the Metro Vancouver area are committed to developing a long term strategy for promoting "Livable Cities" in the region that are designed for sustainable growth and British Columbians' needs in the 21st Century; And
- B. "Livable Cities" will require new and innovative policies that integrate a wide variety of federal, provincial, regional and local initiatives and policies that ensure the achievement of this overall goal;

And

- C. Efficient, affordable, carbon smart transportation infrastructure and services are an integral part of a "livable city" strategy that aspires to help plan for as well as shape population growth in new ways that create cleaner, safer, healthier communities and the efficient movement of people, goods and services; And
- D. The combined resources of senior governments together with that of Metro Vancouver's 21 municipalities are required to sustain and support the development of a transportation system that efficiently integrates the movement of people and goods across the entire region. This will be done at the lowest cost possible for taxpayers within a comprehensive network that will:
 - Support environmentally sustainable cities with healthy populations and growing economies.
 - Provide a gateway for international commerce for Canada.
 - Foster lower carbon emissions, better air quality, reduced traffic congestion, and more convenient travel options.
 - Encourage relatively lower housing costs, more affordable housing, and new municipal infrastructure and services; And
- E. The Province, the Mayors' Council, and TransLink wish to work together to achieve the following goals represented in the transportation plans of the Province and TransLink, and the goals of the proposed Metro Vancouver "Livable Region Strategy" all of which have been broadly embraced by the public, stakeholders, and governments:
 - Provide efficient, reliable, carbon reduced transit that contributes to the majority
 of trips made by public transit, walking, and biking; all allowing and encouraging
 people to reduce dependence on their vehicles, especially single occupancy trips, and
 offering healthy lifestyle choices.
 - Aggressively reduce GHG emissions and air contaminants from transportation to assist the province and municipalities in meeting their GHG and clean air targets.
 - Support population and employment density near transit hubs and along transit corridors, so the majority of jobs and housing are located along a frequent transit



network, a network that needs to expand to accommodate existing needs/priorities and to shape sustainable future growth.

- Promote vibrant neighbourhoods and communities that are more responsive to modern needs, including new demands for affordable housing, appropriate health services, as well as "green" residential and commercial development.
- Provide safe, secure, accessible and affordable travel for the region's population;
- Facilitate economic growth, productivity gains, and international trade through the efficient and effective management of the transportation network.
 - Ensure that operating costs will be controlled by making use of existing administration and/or infrastructure systems in support of new revenue sources whenever possible rather than developing new ones; And
- F. TransLink requires access to sufficient and stable long-term funding, for both capital and operating requirements, to help achieve these goals and change behaviours which will help shape transportation choices in the future.

NOW THEREFORE, the parties set out in this memorandum agree:

- 1. To work together in a cooperative and collaborative way to address the goals of "Livable Cities", including the development of a long term, sustainable funding strategy that maximizes TransLink's available revenue sources and invites open and ongoing dialogue between the parties on potential new funding solutions.
- 2. That transportation planning is a key component of successful livable cities and should include principles as listed below:
 - a. Investments in transit should be appropriate to support higher population densities that are designed to best utilize land at the lowest cost possible for taxpayers and the environment.
 - b. Transportation planning should be an integral component of community planning.
 - c. Communities should be developed to encourage alternatives to vehicle traffic, with direct emphasis on pedestrian, cycling and transit.
 - d. Transit investments must be justified through a comprehensive business case which considers all factors including; ridership, expenses and revenue sources to name a few.
 - e. Transportation Demand Management principles should be developed that will assist in the achievement of the overall transportation goals.
 - f. Transit and road and bridge improvements need to be coordinated and implemented in a timely and expedited fashion to support the success of TransLink's 2040, the Provincial Transit Pacific Gateway and other Provincial plans that will help stimulate growth and job creation.
- 3. To recognize that any strategy for livable cities with a viable long-term transportation plan will anticipate open dialogue on transportation funding sources that may include, but not be limited to, the items listed below:



- a. Funding sources included in current and future legislative authority.
- b. Reallocation of existing revenue sources.
- c. Potential new and innovative revenue sources that will shape transportation choices in favour of transit, cycling and walking, as well as greenhouse gas emission reductions.
- d. A means of capturing some of the increase in land value created by the provision of

rapid transit along the region's strategic corridors.

- e. Other revenue generating activities that take advantage of the market created by transit users.
- f. Efficient and effective use of "Smart Card" technology to increase ridership beyond peak periods, improve efficiencies (reduce operating costs and increase the productivity of the transit fleets), reduce fare evasion and in general, generate greater fare revenue (user pay).
- 4. To recognize that BC has a significant comparative advantage in generating clean and green renewable electricity that could be used to reduce the carbon footprint of the transportation sector in the region.
- 5. To continue to engage the Federal Government in ongoing discussions on funding support, including future capital contributions for new transit and transportation infrastructure and/or the potential reallocation of existing funding (i.e. federal fuel tax).
- 6. To review existing regulatory and policy frameworks to enhance the achievement of provincial, regional or local transportation goals as listed below:
 - a. Joint review of planning and engineering of municipal and provincial arterial roads to ensure safety and efficiency in operations.
 - b. Review of procurement practices related to transit and road and bridge projects to ensure transparency, value and appropriate structure.
 - c. Review of contracting process to ensure innovation in contracting methods including components of financing, design and standardized contract language.
 - d. Efficient methods of obtaining appropriate zoning on publicly owned holdings to maximize benefits and minimize taxpayer or user costs.
- 7. To review best practices from other jurisdictions and seek expert advice to help develop a "Made in BC" solution.
- 8. To leverage existing processes including the Steering Committee, Joint Technical Committee and any other appropriate new mechanisms to ensure follow-up to this MOU.



9. To consult with a wide and diverse list of public and private stakeholders in order to ensure maximum acceptance of the outcome of the deliberations undertaken by the parties under this MOU.