

City of Surrey PLANNING & DEVELOPMENT REPORT File: 7916-0240-00

Planning Report Date: July 11, 2016

## PROPOSAL:

• **Rezoning** from RF and a portion from C-8 to CD (based upon C-35)

# • General Development Permit

to permit the development of a new Sustainable Energy and Environmental Engineering building for Simon Fraser University.

LOCATION: 13408, 13418 and 13400 - 103 Avenue,

portion of 13433 - 102A Avenue,

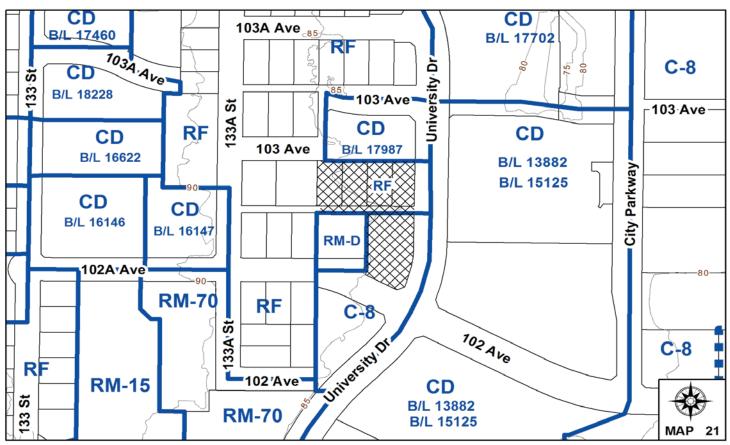
10281 - University Drive and portion of lane

**OWNERS:** Simon Fraser University and

City of Surrey

**ZONING:** RF and C-8

**OCP DESIGNATION:** Central Business District



## RECOMMENDATION SUMMARY

- By-law Introduction and set date for Public Hearing for Rezoning.
- Approval to draft General Development Permit.

# DEVIATION FROM PLANS, POLICIES OR REGULATIONS

None.

# **RATIONALE OF RECOMMENDATION**

- Complies with the "Central Business District" OCP designation.
- The proposed density and building form are appropriate for this part of City Centre.
- The proposed development of a 5-storey academic building for Simon Fraser University (SFU) will strengthen the Academic Precinct in Surrey City Centre.
- The proposed building intended for Sustainable Energy and Environmental Engineering supports key initiatives in the City's Smart City Strategy, which encourage Clean Technology and Sustainable Energy.
- The proposed expansion for SFU supports the City in furthering its consideration as one of the world's "Intelligent Communities".
- A General Development Permit is proceeding concurrently with the proposed rezoning.
   Once funding is confirmed, SFU intends to submit a Detailed Development Permit application.

# **RECOMMENDATION**

The Planning & Development Department recommends that:

- a By-law be introduced to rezone the subject site from "Single Family Residential Zone (RF)" and "Community Commercial Zone (C-8)" to "Comprehensive Development Zone (CD)" and a date be set for Public Hearing.
- 2. Council authorize staff to draft general Development Permit No. 7916-0240-00 generally in accordance with the attached drawings (Appendix II).
- 3. Council instruct staff to resolve the following issues prior to final adoption:
  - (a) ensure that all engineering requirements and issues including restrictive covenants, dedications, and rights-of-way where necessary, are addressed to the satisfaction of the General Manager, Engineering;
  - (b) submission of a subdivision layout to the satisfaction of the Approving Officer;
  - (c) resolution of all urban design issues to the satisfaction of the Planning and Development Department;
  - (d) demolition of existing structures to the satisfaction of the Planning and Development Department;
  - (e) completion of the partial lane closure south of the four northernmost subject lots;
  - (f) registration of a Section 219 Restrictive Covenant to adequately address the City's needs with respect to public art, to the satisfaction of the General Manager Parks, Recreation and Culture;
  - (g) the applicant satisfy the deficiency in tree replacement on the site, to the satisfaction of the Planning and Development Department;
  - (h) the applicant to work with the owner to the immediate north (at 13438-103 Avenue and 10299 University Drive) to secure a reciprocal access and parking easement; and
  - (i) the applicant address the shortfall of parking spaces to the satisfaction of the General Manager, Engineering.

## **REFERRALS**

Engineering: The Engineering Department has no objection to the project

subject to the completion of Engineering servicing requirements, as

outlined in Appendix III.

Parks, Recreation &

Culture:

No concerns.

Surrey Fire Department: The Fire Department has no concerns regarding the proposed

development.

# **SITE CHARACTERISTICS**

Existing Land Use: The subject site is currently being used for public parking managed by the

City.

# Adjacent Area:

| Direction                       | Existing Use   | OCP Designation              | <b>Existing Zone</b>                                   |
|---------------------------------|--|------------------------------|--|
| North:                          | The "Prime" mixed-use high-rise development currently under construction, approved under Application No. 7912-0327-00. | Central Business<br>District | CD By-law No.<br>17987                                 |
| East (Across University Drive): | North Surrey Recreation Centre, rinks and Central Surrey bus exchange.   | Central Business<br>District | CD By-law No.<br>13882, amended by<br>By-law No. 15125 |
| South (Across 102A Avenue):     | Existing public parking lot.   | Central Business<br>District | C-8  |
| West:                           | Duplexes.  | Central Business<br>District | RM-D   |

# **DEVELOPMENT CONSIDERATIONS**

- Four of the five subject properties are owned by the City, addressed as 13408, 13418 and 13400 103 Avenue and 10281 University Drive, with the fifth property owned by Simon Fraser University (SFU), addressed as 13433 102A Avenue. The four City-owned properties and the portion of lane are to be sold by the City to SFU. The four City-owned properties are zoned "Single Family Residential Zone (RF)" and the SFU-owned property is zoned "Community Commercial Zone (C-8)".
- The majority of the subject site is designated "Mixed Use 5.5", with a small portion south of the new 102A Avenue alignment, designated "Mid to High Rise 3.5 FAR" in the City Centre Plan. The entire subject site is designated "Central Business District" in the Official Community Plan (OCP).

• SFU has submitted a development application which includes a rezoning from RF and C-8 to Comprehensive Development (CD), a General Development Permit and consolidation to allow for the development of a new 5-storey building for Sustainable Energy and Environmental Engineering. The building will house a 400-seat lecture hall, labs, office space, student recreation space and a café, totaling approximately 16,066 square metres (172,933 sq. ft.) of building floor area. The proposed density based upon the net site area is 3.6 floor area ratio (FAR) and 2.8 FAR based upon the gross site area.

- SFU has applied for the federal government's new Post-secondary Institutions Strategic Investment Fund (SIF), which will provide \$2 billion over three years to support excellence in research, innovation and environmental sustainability at campuses across Canada. The SIF will cover up to 50 percent of the project's eligible costs, with the remaining funding to be matched by the provincial government. To comply with eligibility requirements, the building must be substantially completed by the end of April, 2018.
- To be eligible for SIF, the project should comply with one of the three categories below:
  - o Improve the scale or quality of facilities for research and innovation, including commercialization spaces used by industry;
  - o Improve the scale or quality of facilities for specialized training at colleges focused on industry needs; and/or
  - o Improve the environmental sustainability of research and innovation related infrastructure at post-secondary institutions and college training infrastructure.
- The subject proposal complies with the 3<sup>rd</sup> category.
- To this end, SFU is moving forward with a Rezoning and General Development Permit at this stage. The detailed design of the building will be submitted as part of a detailed Development Permit application after the Rezoning By-law has received Third Reading or possibly Final Adoption. The detailed design of the building will then be subject to review by the Advisory Design Panel (ADP).

# Road Network

- The subject site fronts 102A Avenue, which is to be realigned through the subject application. The realigned 102A Avenue aligns with the existing bus exchange on the east side of University Drive and will ultimately connect to King George Boulevard through redevelopment along City Parkway and King George Boulevard. The new 102A Avenue will support the future on-street transit operation, to replace the existing bus exchange.
- A new north-south "green" lane will continue along the west edge of the subject site, a continuation of the dedication provided through the "Prime" development at the north. This new lane will facilitate improved vehicular and pedestrian connections through this area.
- A portion of the existing east-west lane will remain open for the time being, until the lots further west are assembled and redeveloped. The existing duplex lot at 13407/13409 102A Avenue will continue to have access to this lane at the northwest corner of the property.

# Vehicular Access

- Vehicular access to the proposed development will be through a shared parking ramp situated on the mixed-use multiple residential and commercial development to the north, called "Prime", approved under Application No. 7912-0327-00.
- At the time the "Prime" development application was reviewed, there was already discussion about allowing for a "knock out" wall in "Prime's" parkade level 1, which would connect to the redeveloped City-owned properties to the south. However, even though the design may accommodate the "punch out" wall, there was no formal legal document secured to ensure this was to happen, as at the time, the City did not have any immediate plans for redevelopment.
- The owner of the "Prime" has provided preliminary support of sharing the parkade ramp, subject to an agreement on costs and maintenance responsibilities.
- Two loading bays are proposed at the rear of the development, which will be accessible to the new north-south lane along the west edge of the development.
- SFU's proposed development is also showing a proposed "knock out" wall to the neighbouring duplex property to the west (addressed as 13407/13409-102A Avenue), which SFU has not currently acquired. This site would also then be deriving its vehicular access from the "Prime" development. The owner of "Prime" has confirmed that he understands the neighbouring duplex lot will also be taking access from the one ramp. However, this will be subject to an acceptable reciprocal access easement agreement, which will include the City as a party.

# Proposed Parking Reduction and Bicycle Parking

- SFU is seeking a reduction in parking, as they expect many of the faculty and students will be utilizing public transit, given the proximity to the Central City SkyTrain Station, the future LRT on City Parkway and 102A Avenue and various bus routes.
- The proposed development is required to provide a total of 351 parking spaces based upon current Zoning By-law requirements broken down as follows:
  - o 3 parking spaces for every 100 square metres (1,075 sq.ft.) of gross floor area for universities and colleges (482 spaces);
  - o 1 parking space for every 4 seats for a 400-seat theatre (100 spaces); and
  - o 3 parking spaces for the proposed café, less than 150 square metres (1,615 sq.ft.) in floor area (3 spaces).

Coupled with the 20% parking reduction permitted in the City Centre and the 25% further discount for shared use, this results in a total of 351 parking spaces required.

• SFU has submitted a parking study, prepared by Bunt and Associates, which reviewed parking ratios of other university and college institutions within the Lower Mainland to demonstrate the appropriate parking ratio for the proposed development. This parking study observed parking demand of other institutions with similar proximity to rapid transit and correlated the overall parking demand to the number of Full Time Equivalent (FTE) students attending SFU. Based upon their findings, Bunt has proposed a parking ratio of 0.22 stall per FTE, which Engineering staff have reviewed and accepted as the appropriate ratio for the proposed development.

- The proposed SFU building is expected to have 320 undergraduate and 195 graduate students for a total of 515 FTE students. This would require 113 parking spaces to accommodate the proposed university expansion.
- Along with the parking requirement for the 400-seat theatre (less the 20% parking reduction permitted in the City Centre), a total of 145 parking spaces are required for the subject application. This total takes into account the 25% discount permitted in the Zoning By-law for shared parking.
- 3 parking spaces will be required for the proposed café use, which will be restricted to a maximum of 150 square metres (1,615 sq.ft.) in size.
- The total required parking will be 148 parking spaces for the development.
- The development is proposing 115 parking spaces overall within a one-level underground parkade. Of the 115 parking spaces, 2 spaces are to be disabled parking spaces and 3 will be "small car" parking spaces.
- The proposed 115 parking spaces equate to a shortfall of 33 parking spaces. The applicant has proposed to mitigate the shortfall by providing transportation demand management on-site, which includes carpooling parking spaces, enhanced bicycle parking and cycling facilities. The applicant will be required to provide cash-in-lieu in exchange for the shortfall as a condition of Final Adoption of the Rezoning By-law. Given the subject site's proximity to rapid transit and the transit exchange, this shortfall and proposed mitigation is supported by staff.
- The Zoning By-law requires that the proposed development provide 103 bicycle parking spaces for the students. The proposed development will provide 103 bicycle parking spaces, which complies with the Zoning By-law requirement for Colleges and Universities.

# PROPOSED CD BY-LAW (Appendix IV)

• The applicant is proposing to rezone the subject site to a CD Zone that is based, generally on the "Community Commercial Zone (C-35)". The following table compares the C-35 Zone and the proposed CD By-law:

Table 1: Comparison of C-35 Zone and proposed CD Zone

| The state of the s | C-35 Zone  | Proposed CD By-law  |
|--|--|---|
| Land Uses  | <ul> <li>Retail stores excluding adult entertainment stores and secondhand stores and pawnshops;</li> <li>Personal service uses excluding body rub parlours;</li> <li>General service uses excluding drive-through banks;</li> <li>Eating establishments excluding drive-through restaurants;</li> <li>Neighbourhood pubs;</li> <li>Office uses excluding social escort services and methadone clinics;</li> <li>Tourist accommodation;</li> <li>Indoor recreation facilities;</li> <li>Parking facilities, provided that the parking is contained within a structure;</li> <li>Entertainment uses excluding arcades and adult entertainment stores;</li> <li>Cultural uses;</li> <li>Assembly halls;</li> <li>Community services;</li> <li>Child care centres; and</li> <li>Multiple unit residential building subject to the use forming an integral part of the commercial uses on the</li> </ul> | <ul> <li>Universities;</li> <li>Colleges and Institutes;</li> <li>Eating establishments, excluding drive-throughs and limited to a maximum size of 150 square metres; and</li> <li>Office uses excluding social escort services.</li> </ul> |
| Density<br>(Floor Area<br>Ratio)   | lot. 3.5 FAR, provided that not more than 67% of the floor area may be used as a multiple unit residential building.   | 3.8 FAR (net) and no residential proposed.  |
| Lot Coverage   | 85%  | 90%   |
| Building<br>Setbacks   | Front: 2.0 metres (7 ft.) Rear: 7.5 metres (25 ft.) Side Yard: 3.0 metres (10 ft.) (may be reduced to 0 metre/0 feet if located adjacent a residential lot) Side Yard on Flanking Street: 2.0 metres (7 ft.)   | 5 metres (16 ft.) along the north, east and south sides, 2 metres (6.6 ft.) for the west, with interior lot lines reduced to 0 metre (0 ft.).   |
| <b>Building Height</b>   | N/A  | 35 metres (5 storeys)   |

|                       | C-35 Zone   | Proposed CD By-law             |
|-----------------------|---|--------------------------------|
| Off-Street<br>Parking | <ul> <li>3 parking spaces for every 100 square metres (1,075 sq.ft.) of gross floor area;</li> <li>11 parking spaces for every 100 square metres (1,075 sq.ft.) of gross floor area for associated assembly hall/gymnasium; and</li> <li>3 parking spaces for eating establishments limited to a maximum 150 square metres (1,615 sq.ft.) in size.</li> </ul> | Minimum of 115 parking spaces. |

- Larger and more intensive commercial activities such as child care centres, neighbourhood pubs, assembly halls, indoor recreation facilities and large scale restaurants are not permitted in the proposed development, given the parking reduction requested by the applicant. There is also no residential component to the development.
- Eating establishments will be restricted in size, up to a maximum of 150 square metres (1,615 sq.ft.) to minimize peak time parking demands and in keeping with the intent to cater primarily to students and local residents and businesses.
- The proposed CD By-law will allow a maximum density of 3.8 floor area ratio (FAR), which is slightly higher than the 3.5 FAR permitted under the C-35 Zone.
- The maximum lot coverage is proposed at 90%, whereas it is 85% in the C-35 Zone.
- The proposed building setbacks along University Drive and the new 102A Avenue will be 5.0 metres (16 ft.) to create a more urban streetscape. Additional encroachments such as patios, seating and canopies will be permitted to encroach into the setbacks. The setback to the new north-south lane will be 2.0 metres (6.6 ft.). The interior lot lines will be permitted to be 0 metre (0 ft.) to allow for a seamless transition with the future redevelopment of the neighbouring duplex lot to the west (13407/13409-102A Avenue).
- The proposed CD By-law will also allow for a reduction in parking, which has been justified through the provision of a Parking Study prepared by Bunt and Associates (see Proposed Parking Reduction and Bicycle Parking section), allowing for a minimum of 115 parking spaces.

# **PRE-NOTIFICATION**

Pre-notification letters were mailed out on June 1, 2016. Staff have not received any comments with respect to the proposed development.

## DESIGN PROPOSAL AND REVIEW

- The proposed development will be 5 storeys in height, with one level of underground parking.
- The main entrance of the development is proposed from 102A Avenue. A small entry plaza is proposed at this location.
- The vehicular access to the development will be from the "Prime" development to the north, with service access from the new north-south lane at the west.
- The building massing of the proposed SFU building responds to the podium of the "Prime" development by stepping down to a roof terrace on the north side.
- The proposed building materials of the building façades will consist of a combination of insulated panel, clear glass and fritted glass and metal panel.
- An at-grade programmed space is proposed along University Drive to allow for activity to extend to the commercial street edge. A grand atrium extends over three levels to SFU Surrey's main lecture hall, a café, an exhibition space and the Capstone lab. The Capstone lab is a showcase lab for the university. In this lab, visitors can watch students actively working on individual engineering projects that typically involve physical activities like building prototypes and various mock-ups. The main atrium has been dropped to street level so that it is possible for pedestrians to view into the complex. The atrium will act as a secondary access, which will directly connect to the lecture hall from University Drive.
- The building will be targeting the LEED Gold standard.

# TREES AND LANDSCAPE (Appendix V)

Norman Hol, ISA Certified Arborist of Arbortech Consulting, prepared an Arborist
Assessment for the subject site. The table that follows, provides a summary of the tree
retention and removal by tree species:

Table 2: Summary of Tree Preservation by Tree Species:

| Tree Species  | Exist | ting | Remove | Retain |
|---|-------|------|--------|--------|
| Deciduous Trees   |       |      |        |        |
| Cherry  | 1     |      | 1      | 0      |
| Coniferous Trees  |       |      |        |        |
| Douglas Fir   | 1     |      | 1      | 0      |
| Western Red Cedar   | 1     |      | 1      | 0      |
| Total   | 3     |      | 3      | o      |
| Total Replacement Trees Prop<br>(excluding Boulevard Street Trees |       |      | TBD    |        |

| Total Retained and Replacement<br>Trees | o to be retained + TBD |
|---|------------------------|
| Contribution to the Green City Fund     | TBD                    |

- The Arborist Assessment states that there are a total of 3 protected trees on the site. Of the 3 existing trees, none of the trees are Alder and Cottonwood trees. It was determined that none of the trees can be retained as part of this development proposal. The proposed tree retention was assessed taking into consideration the location of services, building footprints, road dedication, proposed lot grading, and underground parking.
- For those trees that cannot be retained, the applicant will be required to plant trees on a 2 to 1 replacement ratio. This will require a total of 6 replacement trees on the site. At this time, as the proposed landscape plans are conceptual, the final number of replacement trees has not yet been confirmed. If there is a deficit in tree replacement, then the application will be required to pay cash-in-lieu, representing \$300 per tree, to the Green City Fund, in accordance with the City's Tree Protection By-law.
- In addition to replacement trees, boulevard street trees will be planted on University Drive and 102A Avenue. This will be determined by the Engineering Department during the servicing design review process.
- The landscape plan proposed is very schematic in nature at this time, to assist in facilitating the General Development Permit.
- A green roof is being proposed to the building along with a seating area.
- Sawcut, light sandblasted finish concrete pavers are proposed throughout, at grade, with a double row of trees along University Boulevard. A single row of trees is proposed along the future 102A Avenue road alignment, with the tree row in the boulevard to be accommodated with the realignment of 102A Avenue.
- As 102A Avenue is not proposed to be realigned immediately, a triangular area will be left as a remainder. The applicant's landscape architect has proposed to provide some grass cover, small trees and a timber seating bench as an interim design solution.
- More detailed landscape plans will be required at time of detailed Development Permit submission.

# **DISTRICT ENERGY**

- The subject site is located within Service Area A, as defined in the "City Centre District Energy System By-law" (see Appendix VI for location). The District Energy System consists of three primary components:
  - O Community energy centres, City-operated facilities that generate thermal energy for distribution through a piped hot water network;

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

# SUSTAINABLE DEVELOPMENT CHECKLIST

The applicant prepared and submitted a sustainable development checklist for the subject site on June 17, 2016. The table below summarizes the applicable development features of the proposal based on the seven (7) criteria listed in the Surrey Sustainable Development Checklist.

Table 3: Sustainability Checklist

| Sustainability                     | Sustainable Development Features Summary  |
|------------------------------------|---|
| Criteria                           |   |
| 1. Site Context & Location (A1-A2) | <ul> <li>The subject site is located within the City Centre Plan area.</li> <li>The proposed development is consistent with the "Mixed-Use 5.5 FAR" designation of the City Centre Plan and the "Central Business District" OCP designation.</li> </ul> |
| 2. Density & Diversity (B1-B7)     | <ul> <li>The proposed gross density of the development is 2.8 FAR, with the proposed net density at 3.6 FAR.</li> <li>The proposed development is mainly an institutional use, with a small commercial component.</li> </ul>                            |
| 3. Ecology & Stewardship (C1-C4)   | • The proposed development is to include Low Impact Development Standards (LIDS), such as a green roof, permeable pavement, rain water detention areas and storm detention in the underground   |

| Sustainability                    | Sustainable Development Features Summary                                  |
|-----------------------------------|---|
| Criteria                          |   |
|                                   | parkade.  |
|                                   | The proposed development will allow for compost and recycling pick-       |
| C 11                              | up.   |
| 4. Sustainable                    | The project includes share parking, parking allocation/size               |
| Transport &                       | amendments, electric vehicle charging stations and a visible, secure      |
| Mobility                          | all-weather bicycle parking, as well as Transit Demand Management         |
| (D <sub>1</sub> -D <sub>2</sub> ) | measures, such as showers and lockers for cyclists, electric vehicle      |
|                                   | charging stations, car pooling and the identification of this location    |
|                                   | as being a possible future public bike share station.                     |
| 5. Accessibility &                | The design of the project will incorporate Crime Prevention Through       |
| Safety                            | Environmental Design "CPTED" principles, such as lighting, visibility     |
| (E1-E3)                           | of public spaces (public spaces facing streets), elevator vestibules will |
|                                   | be open to the ramp and there will be natural daylighting of the main     |
|                                   | atrium.   |
| 6. Green Certification            | The project will be targeting a LEED Gold standard.                       |
| (F <sub>1</sub> )                 |   |
| 7. Education &                    | • N/A   |
| Awareness                         |   |
| (G1-G4)                           |   |

# **INFORMATION ATTACHED TO THIS REPORT**

The following information is attached to this Report:

Appendix I. Lot Owners, Action Summary, Project Data Sheets and Survey Plans
Appendix II. Proposed Site Plan, Building Elevations and Conceptual Landscape Plans

Appendix III. Engineering Summary Appendix IV. Proposed CD By-law

Appendix V. Summary of Tree Survey and Tree Preservation Appendix VI. Map Showing District Energy Service Areas

# **INFORMATION AVAILABLE ON FILE**

- Geotechnical Study Prepared by Thurber Engineering Ltd. Dated March 14, 2016.
- Parking Study Prepared by Bunt & Associates.

original signed by Judith Robertson

Jean Lamontagne General Manager Planning and Development

# Information for City Clerk

Legal Description and Owners of all lots that form part of the application:

1. (a) Agent: Name: Ian Abercrombie

Simon Fraser University

Address: 7542-134A Street

Surrey, BC V<sub>3</sub>W <sub>7</sub>J<sub>1</sub>

Tel: 778-782-9779

2. Properties involved in the Application

(a) Civic Addresses: 13408-103 Avenue

13418-103 Avenue 13400-103 Avenue

Portion of 13433-102A Avenue

10281 University Drive

Portion of Lane

(b) Civic Address: 13408-103 Avenue

Owner: City of Surrey PID: 012-326-879

Lot 5 Block "C" Section 27 Block 5 North Range 2 West New Westminster District Plan

1726

(c) Civic Address: 13418-103 Avenue

Owner: City of Surrey PID: 012-326-887

Lot 6 Block "C" Section 27 Block 5 North Range 2 West New Westminster District Plan

1726

(d) Civic Address: 13400-103 Avenue

Owner: City of Surrey PID: 011-262-303

East 66 Feet of the East 175 Feet Lot "A" Section 27 Block 5 North Range 2 West New

Westminster District Plan 7802

(e) Civic Address: Portion of 13433-102A Avenue

Owner: Simon Fraser University

PID: 024-847-003

Portion of Lot 1 Section 27 Block 5 North Range 2 West New Westminster District Plan

LMP46320

(f) Civic Address: 10281 University Drive

Owner: City of Surrey PID: 029-294-827

Lot B Section 27 Block 5 North Range 2 West New Westminster District Plan BCP52191

(g) Portion of lane

Owner: City of Surrey
Portion of Road Dedicated on Plan 1726 Section 27 Block 5 North Range 2 West Westminster District

- Summary of Actions for City Clerk's Office 3.
  - (a) Introduce a By-law to rezone the site.

# **DEVELOPMENT DATA SHEET**

Proposed Zoning: CD (based upon C-35)

| Required Development Data           | Minimum Required /<br>Maximum Allowed | Proposed                |
|-------------------------------------|---------------------------------------|-------------------------|
| LOT AREA* (in square metres)        |                                       |                         |
| Gross Total                         |                                       | 5,734 sq.m.             |
| Road Widening area                  |                                       | 1,218 sq.m.             |
| Undevelopable area                  |                                       | -                       |
| Net Total                           |                                       | 4,516 sq.m.             |
|                                     |                                       |                         |
| LOT COVERAGE (in % of net lot area) |                                       |                         |
| Buildings & Structures              |                                       | 85%                     |
| Paved & Hard Surfaced Areas         |                                       | -                       |
| Total Site Coverage                 |                                       |                         |
| SETBACKS ( in metres)               |                                       |                         |
| Front (102A Avenue)                 |                                       | 5 m                     |
| Rear (north)                        |                                       | o m                     |
| Side #1 (at lane)                   |                                       | 2 M                     |
| Side (west next to RM-D lot)        |                                       | o m                     |
| Side #2 (University Drive)          |                                       | 5 m                     |
|                                     |                                       |                         |
| BUILDING HEIGHT (in metres/storeys) |                                       |                         |
| Principal                           |                                       | 35 metres/5-<br>storeys |
| Accessory                           |                                       | n/a                     |
| NUMBER OF RESIDENTIAL UNITS         |                                       | N/A                     |
| Bachelor                            |                                       |                         |
| One Bed                             |                                       |                         |
| Two Bedroom                         |                                       |                         |
| Three Bedroom +                     |                                       |                         |
| Total                               |                                       |                         |
| FLOOR AREA: Residential             |                                       | N/A                     |
| FLOOR AREA: Commercial              |                                       |                         |
| Retail                              |                                       | 125 sq.m.               |
| Office                              |                                       | <i>) - ¶</i> ·····      |
| Total                               |                                       |                         |
|                                     |                                       |                         |
| FLOOR AREA: Industrial              |                                       | N/A                     |
| FLOOR AREA: Institutional           |                                       | 15,941 sq.m.            |
| TOTAL BUILDING FLOOR AREA           |                                       | 16,066 sq.m.            |

# Development Data Sheet cont'd

| Required Development Data                                     | Minimum Required /<br>Maximum Allowed | Proposed |
|---|---------------------------------------|----------|
| DENSITY   |                                       |          |
| # of units/ha /# units/acre (gross)                           |                                       |          |
| # of units/ha /# units/acre (net)                             |                                       |          |
| FAR (gross)   |                                       | 2.8      |
| FAR (net)   |                                       | 3.6      |
| AMENITY SPACE (area in square metres)                         |                                       | N/A      |
| Indoor  |                                       |          |
| Outdoor   |                                       |          |
| PARKING (number of stalls)                                    | Based on Bunt Report                  |          |
| Commercial  | 3                                     | 3        |
| Industrial  |                                       | N/A      |
| Residential Bachelor + 1 Bedroom                              |                                       | N/A      |
| 2-Bed   |                                       |          |
| 3-Bed   |                                       |          |
| Residential Visitors  |                                       |          |
| Institutional   | 145                                   | 112      |
| Total Number of Parking Spaces                                | 148                                   | 115      |
| Number of disabled stalls                                     | 2                                     | 2        |
| Number of small cars  | 52 (max 35%)                          | 3        |
| Tandem Parking Spaces: Number / % of<br>Total Number of Units |                                       | N/A      |
| Size of Tandem Parking Spaces<br>width/length                 |                                       | N/A      |

| Heritage Site NO | Tree Survey/Assessment Provided | YES |
|------------------|---------------------------------|-----|
|------------------|---------------------------------|-----|

# SURVEY PLAN TO ACCOMPANY CITY OF SURREY REZONING BYLAW No. OVER A PORTION OF ROAD DEDICATED BY PLAN 1726 LYING IN SECTION 27 BLOCK 5 NORTH RANGE 2 WEST NEW WESTMINSTER DISTRICT BCGS 92G.016

### LEGEND

DENOTES CONTROL MONUMENT FOUND
 DENOTES STANDARD IRON POST FOUND
 DENOTES CALCULATED

INTEGRATED SURVEY AREA NO. 1, SURREY, NADB3 (CSRS) 4,0,0,8C,1,GVRD

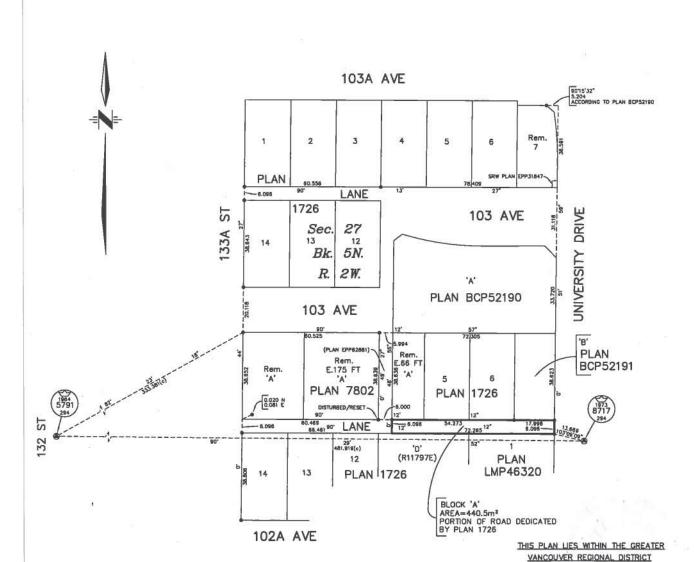
GRID BEARINGS ARE DERIVED FROM OBSERVATIONS BETWEEN GEODETIC CONTROL MONUMENTS 5791 AND 8717.

THIS PLAN SHOWS HORIZONTAL GROUND-LEVEL DISTANCES UNLESS DTHERMSE SPCOFED. TO COMPUTE GRID DISTANCES, MULTIPLY GROUND-LEVEL DISTANCES BY THE AVERAGE COMBINED SCALE FACTOR OF 0.9885913 WHICH HAS BEEN DETRINED TROM CONTROL MONUMENT 8717.

THE INTENDED PLOT SIZE OF THIS PLAN IS
432mm IN WOTH BY 550mm IN HEIGHT
(USE C SIZE SHEET) WHEN PLOTTED AT A SCALE OF 1:750.

ALL DISTANCES ARE IN METRES

| BOOK OF REFERENCE                            |         |
|--|---------|
| DESCRIPTION                                  | AREA    |
| (BLOCK 'A')                                  |         |
| PORTION OF ROAD DEDICATED BY PLAN 1728       |         |
| OF SECTION 27 BLOCK 5 NORTH RANGE 2 WEST NWO | 440.5 m |



CITY OF SURREY SURVEY SECTION

13450 - 104 AVE. SURREY, B.C. V3X 3A2 TEL. (604) 581-4253 FAV. (604) 581-8883 CERTIFIED CORRECT ACCORDING TO FIELD SURVEY THIS 10th DAY OF JUNE, 201

SE Welherly SCOTT E. NETHERTON BCLS

530850.dwg

# SURVEY PLAN TO ACCOMPANY CITY OF SURREY REZONING BYLAW NO.\_ OF PART OF LOT 1 SEC 27 BLOCK 5 NORTH RANGE 2 WEST NWD PLAN LMP46320 FOR REZONING PURPOSES CIVIC ADDRESS: SCALE 1: 500 13433 102 A Ave., Surrey, BC P.I.D. 024-847-003 ALL DISTANCES ARE IN METRES Lane 90'12'13" 38.083 University Drive 29" BLOCK B 1284.7 Sq.m. 50, PLAN LMP46320 PLAN 1726 841 ò r=45.016 a=9.933 72.58.06 o 91'00'47" r = 42.228a=11.515106'38'13" ò 102A Avenue r=117.653 0≈4.098 6.600 68.26,06, INTEGRATED SURVEY AREA No. 1, SURREY NAD 83 (CSRS) 4.0.0.BC.1.GVRD Grid bearings are derived from RTK GNSS observations to geodetic control monuments 8717 and 5149 and are referred to the central meridan of UTM Zone 10 N. This plan shows horizontal ground—level distances unless otherwise specified. This plan shows horizontal ground—level distances unless otherwise specified. The compute grid distances, multiply ground—level distances by the average combined factor of 0.9995913, which has been derived from control monument 8717. Property lines derived from field survey. TH DAY OF JULY, 2016. LAND SURVEYING D.C.L.S. SURREY B.C. control monument 8717. Adom Fulkerson

-UNIMISO 3ª

604-583-6161 FILE: 7972-BLOCKZONE



# SIMON FRASER UNIVERSITY SUSTAINABLE ENERGY AND ENVIRONMENTAL ENGINEERING (SE3P) BUILDING

ISSUED FOR REVIEW - 2016/06/22

### **PROJECT DATA**

### LEGAL DESCRIPTION

LOT 2 SECTION 27 BLOCK 5 NORTH RANGE 2 WEST NEW WESTMINSTER DISTRICT PLAN EPP62863

### CIVIC ADDRESS

10288 University Drive SURREY, B.C.

## ZONING

PROPOSED USE: CD

### SITE AREA

TOTAL SITE AREA: 4,340m² (46,714ft²)

### PROPOSED SITE COVERAGE

3,341m² (35,692ft²)

### PROPOSED FLOOR AREA

LEVEL 1: 2,835m² (30,5161t²) LEVEL 2: 2,767m² (29,991t²) LEVEL 3: 3,109m² (33,465t²) LEVEL 4: 2,394m² (25,7691t²) LEVEL 5: 3,386m² (36,447t²) LEVEL 6: 1,555m² (16,738tt²)

TOTAL FLOOR AREA: 16,066m2 (172,934ft2)

### SETBACK REQUIREMENT

(UNIVERSITY DRIVE): 5m (102A AVENUE): 5m (LOT H): 0m (LOT D2): 0m (LANE): 2m

### DENSITY

ALLOWABLE FAR: 5.5
ALLOWABLE SITE CAPACITY: 23,670m² (256,934ft²)
PROPOSED FAR: 3,6

#### **BUILDING HEIGHT**

ALLOWABLE MAX. HEIGHT: 75m (250ft)
PROPOSED HEIGHT: 32m (105ft)

### PARKING REQUIREMENT

REQUIRED PARKING: 148 PROPOSED PARKING: 118

### LOADING REQUIREMENT

REQUIRED LOADING: 2 BAYS 3.4m x 9.0m (11ft x 30ft)
PROPOSED LOADING: 2 BAYS 4.8m x 12.0m (16ft x 39ft)

### **BICYCLE STORAGE REQUIREMENT**

REQUIRED UNITS: 10
PROPOSED UNITS: 10

### ARCHITECT

BING THOM ARCHITECTS

1430 BURRARD STREET VANCOUVER, BC V6Z 2AE

CONTACT: MICHAEL HEENEY EMAIL: mheeney@btagroup.com TEL: 604-682-1881

### LANDSCAPE

PWL PARTNERSHIP LANDSCAPE ARCHITECTS

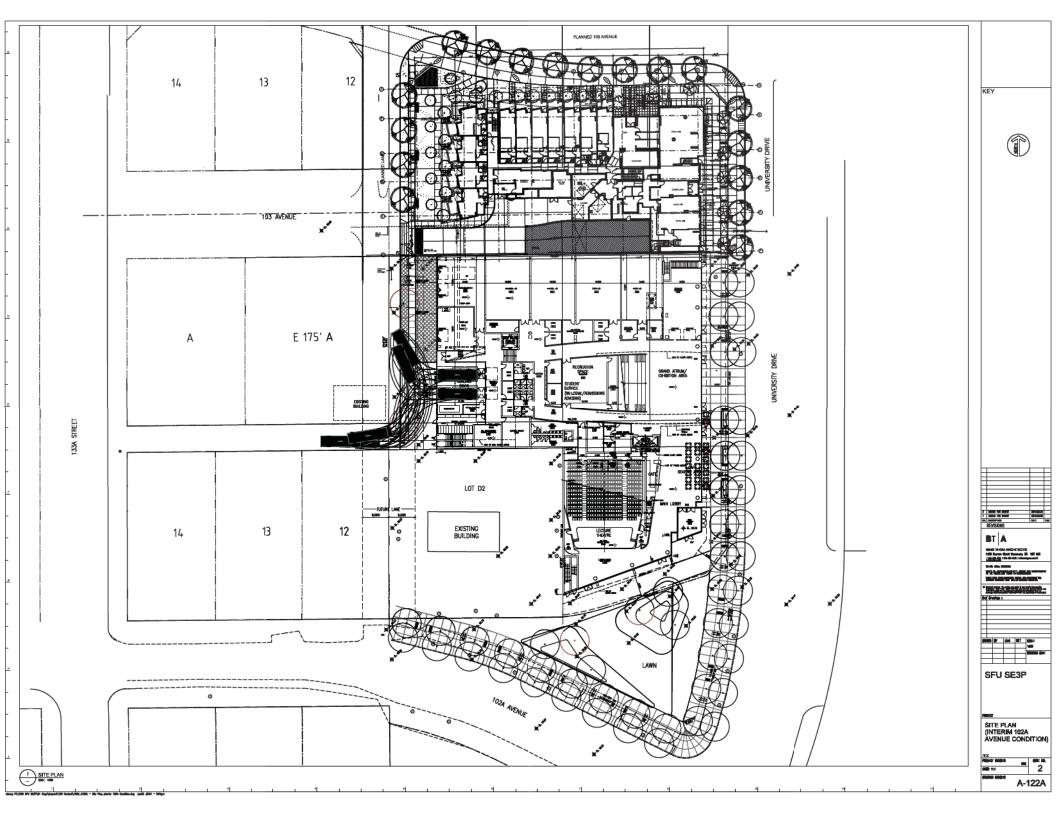
5TH FLOOR, EAST ASIATIC HOUSE 1201 WEST PENDER STREET VANCOUVER, BC V6E 2V2

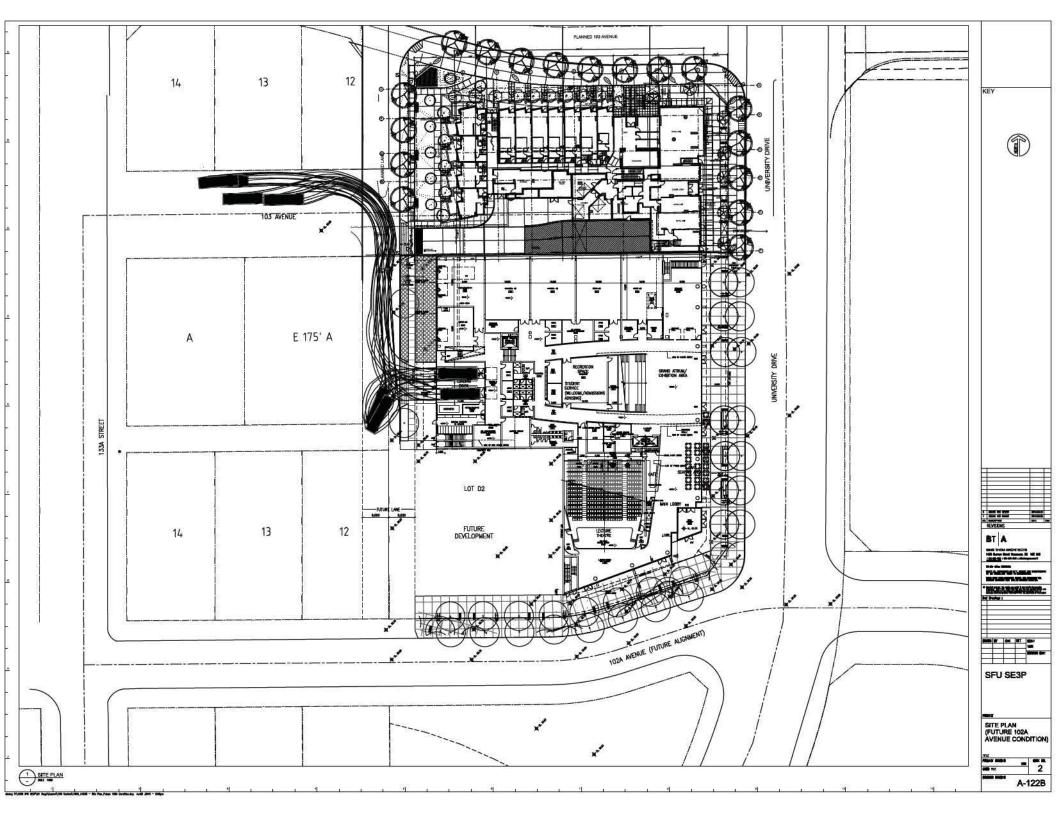
CONTACT: DEREK LEE EMAIL: dlee@pwlpartnership.com TEL: 604-688-6111

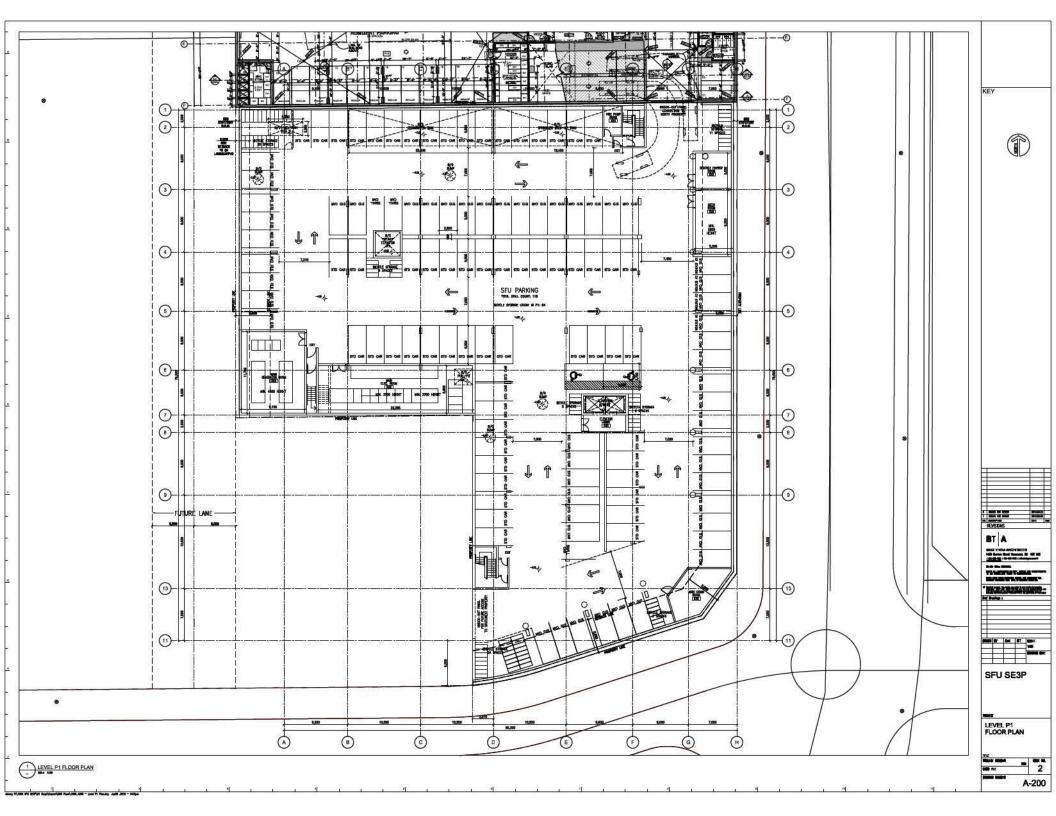
### DRAWING LIST

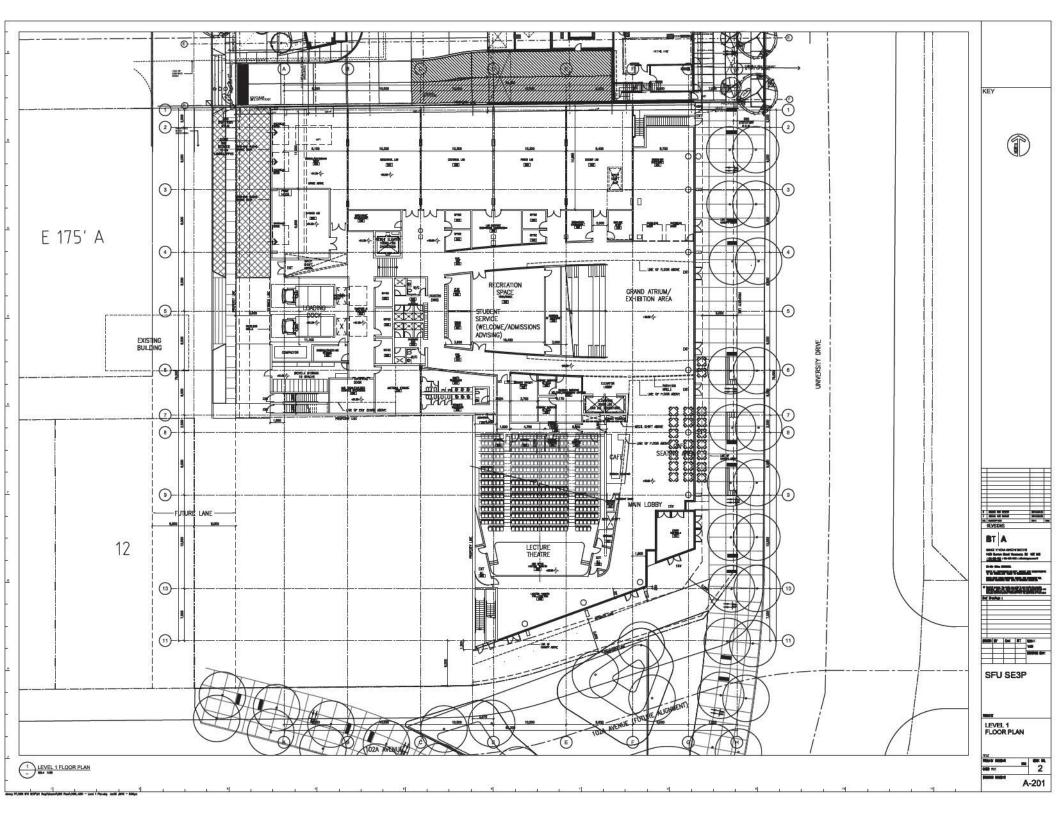
### **ARCHITECTURAL**

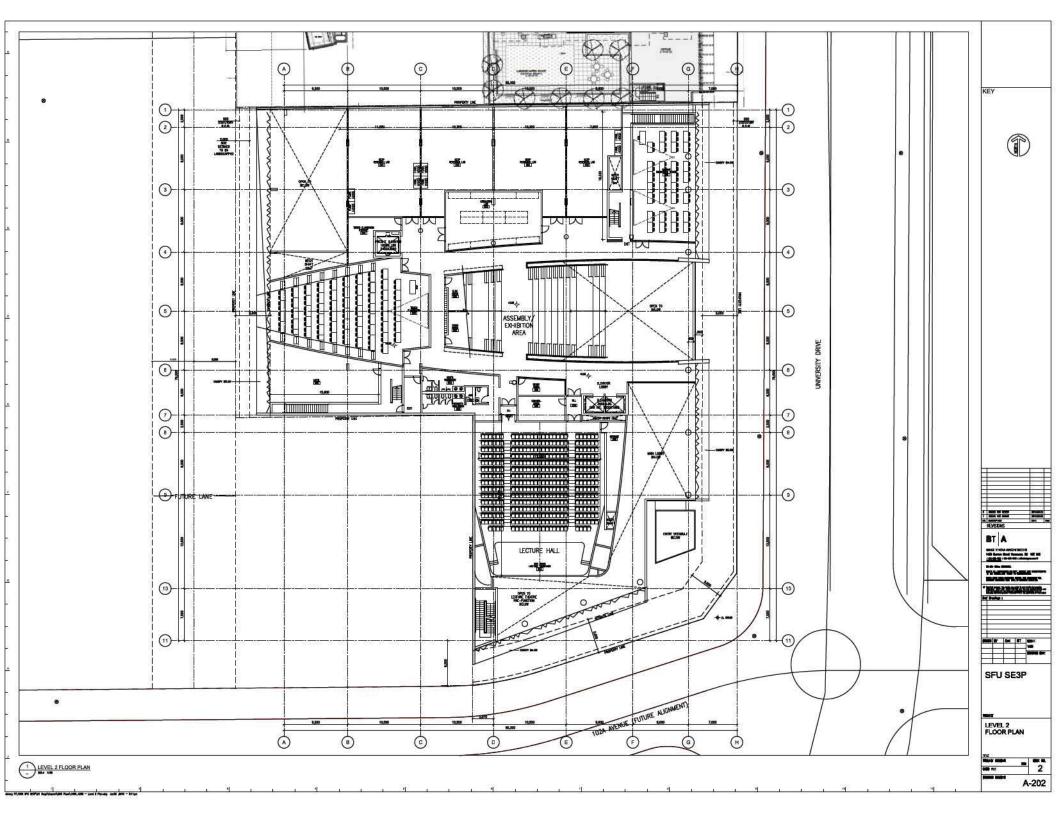
SITE PLAN (INTERIM 102A AVENUE CONDITION) A-122A SITE PLAN (FUTURE 102A AVENUE CONDITION) A-200 A-201 LEVEL P1 PLAN LEVEL 1 PLAN A-202 LEVEL 2 PLAN A-203 A-204 A-205 LEVEL 3 PLAN LEVEL 4 PLAN LEVEL 5 PLAN LEVEL 6 PLAN SECTION A-301 SECTION A-400 EAST ELEVATION SOUTH ELEVATION WEST ELEVATION NORTH ELEVATION PERSPECTIVE VIEWS

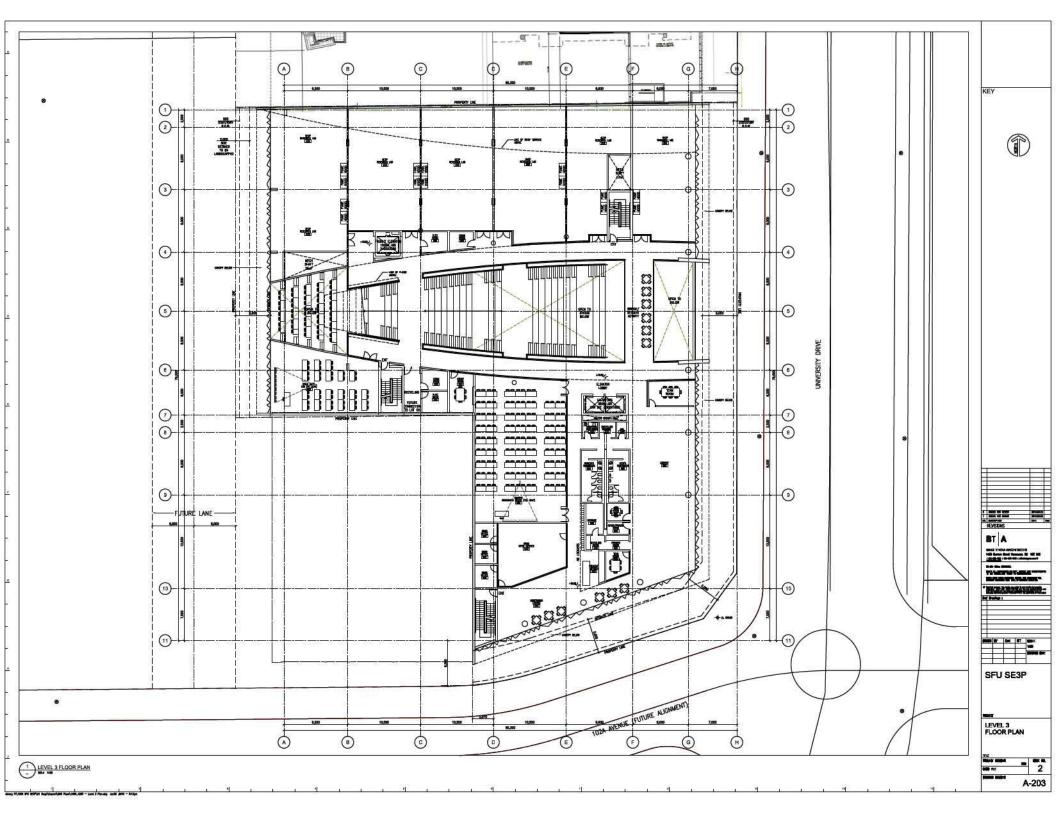


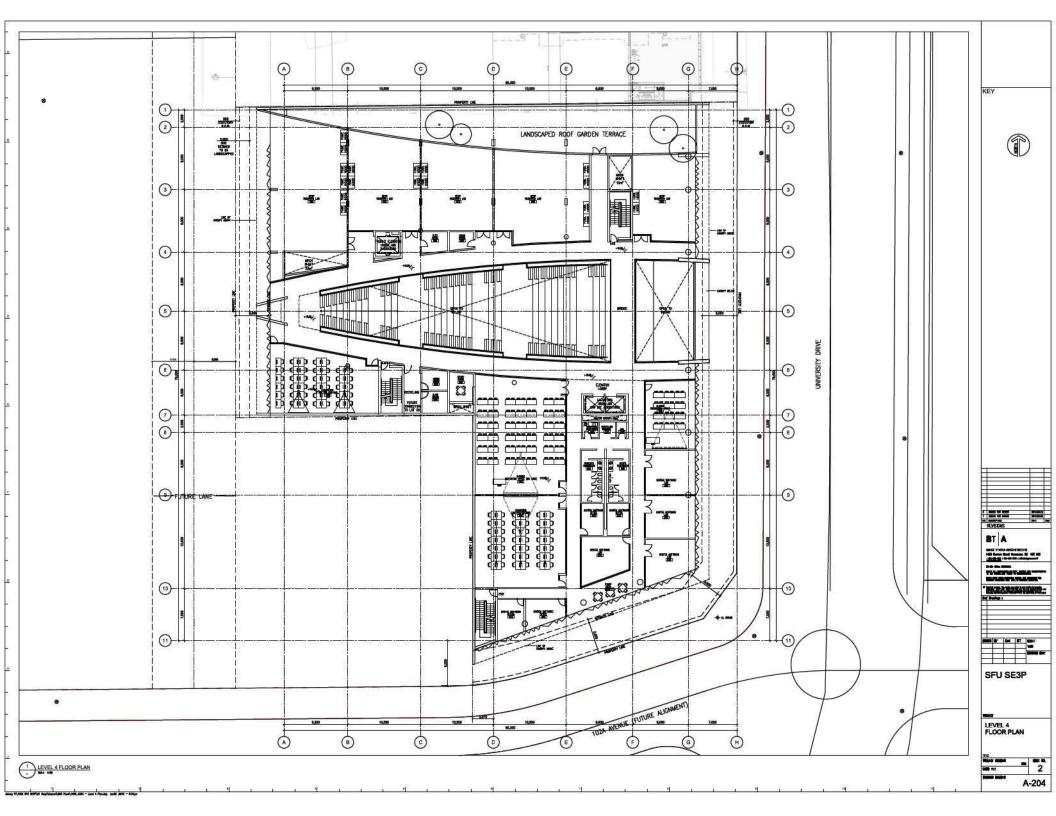


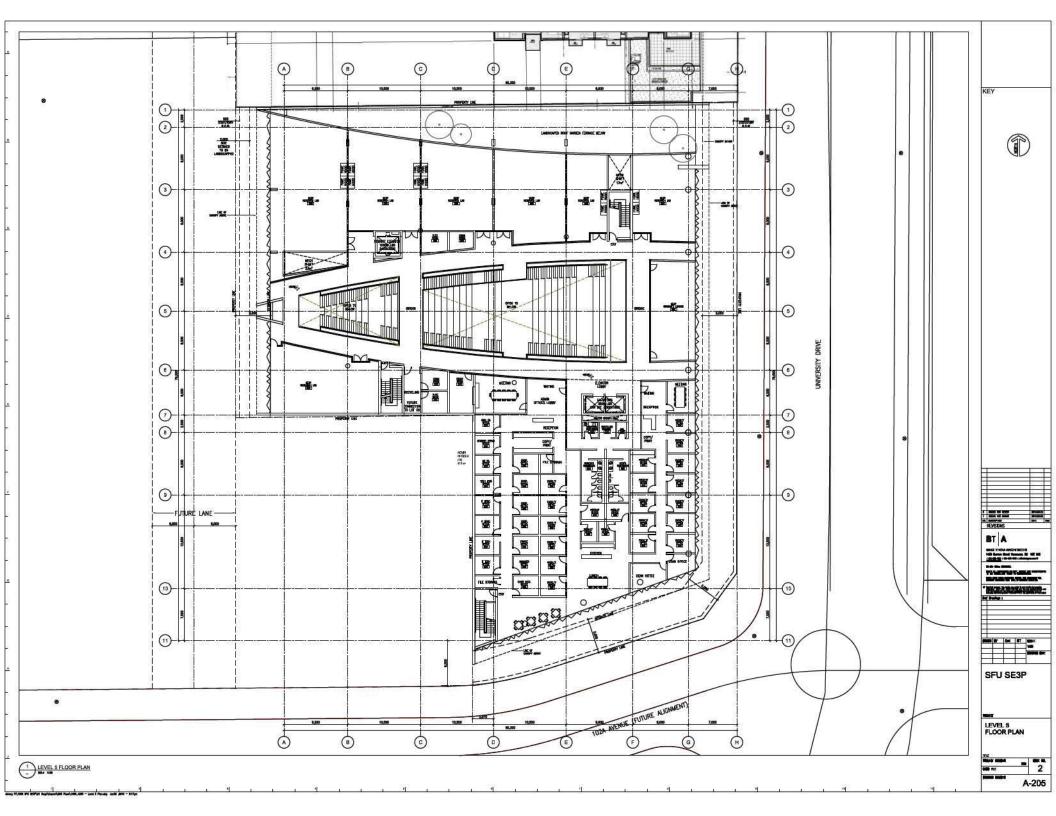


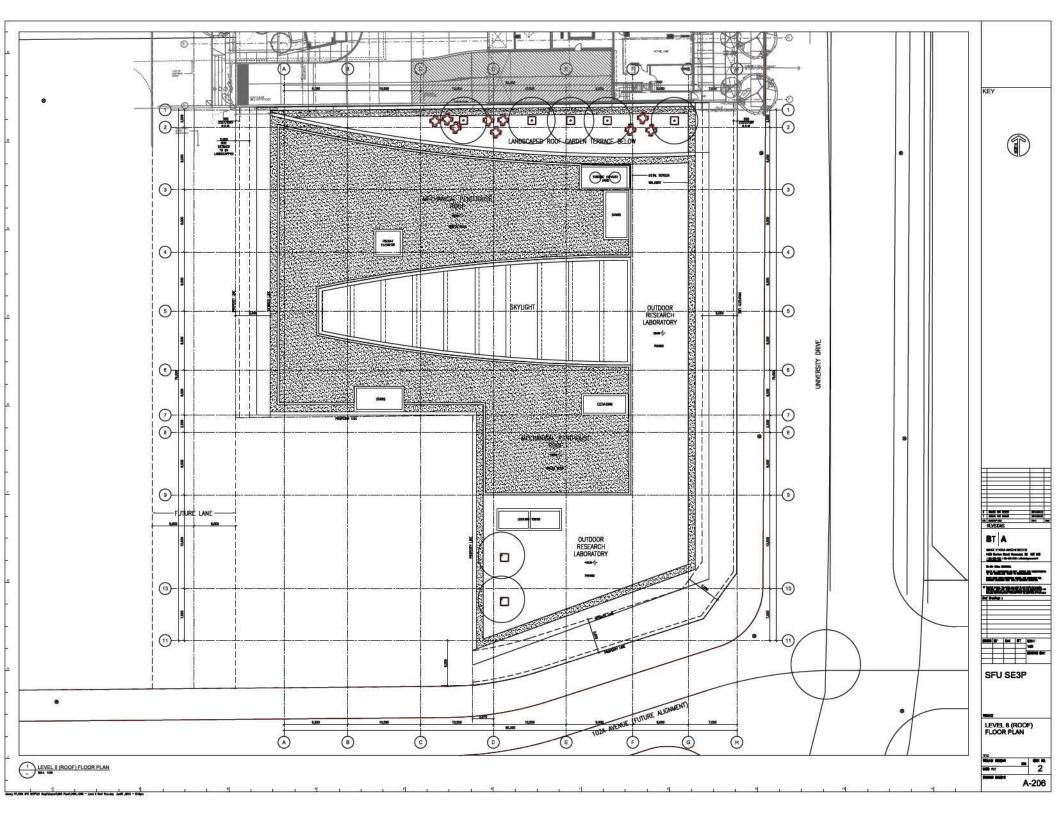


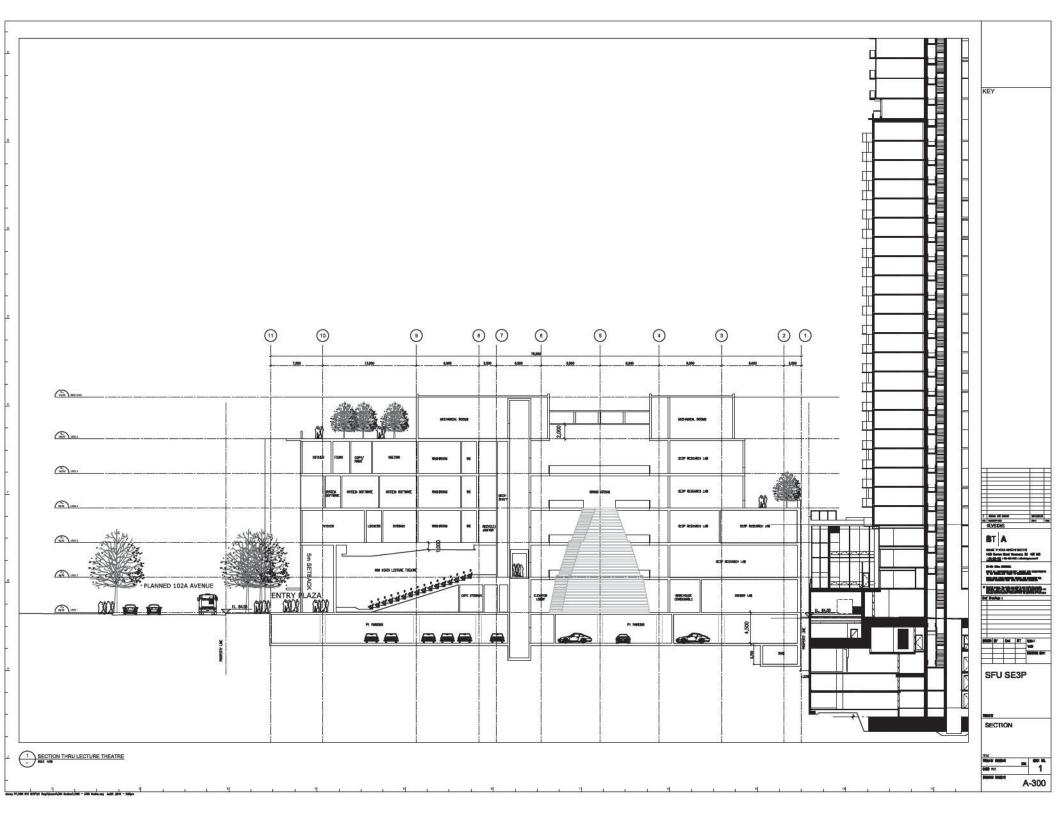


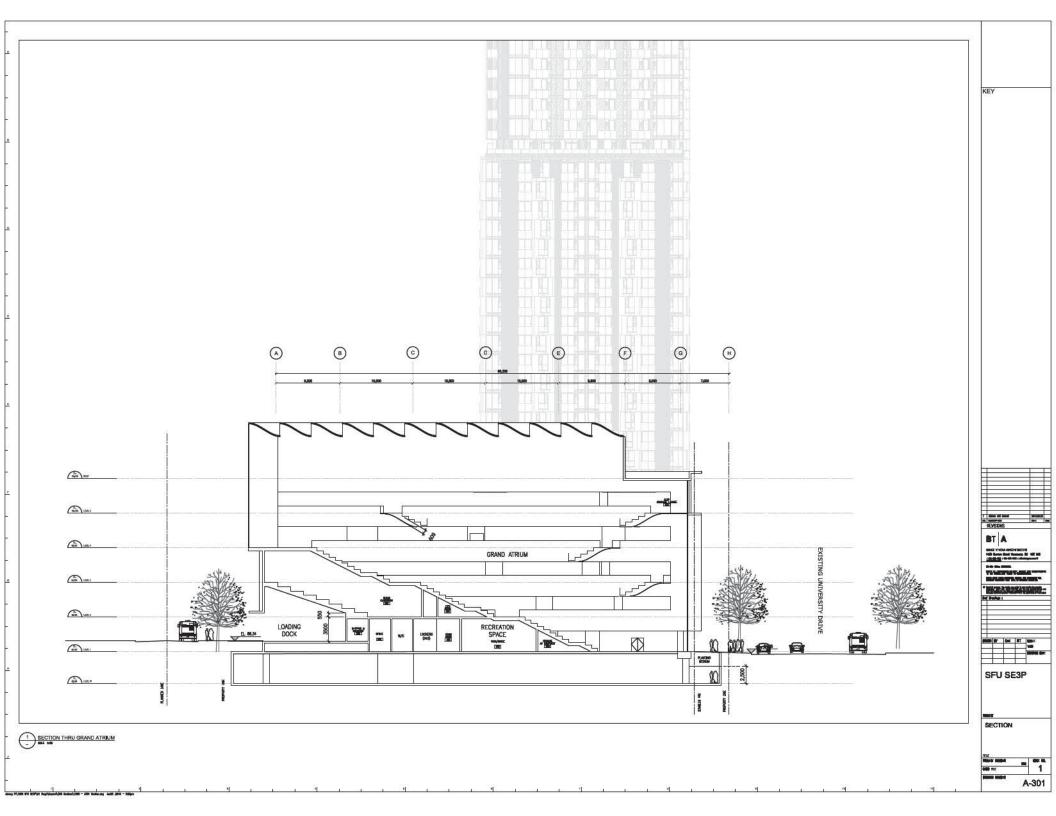


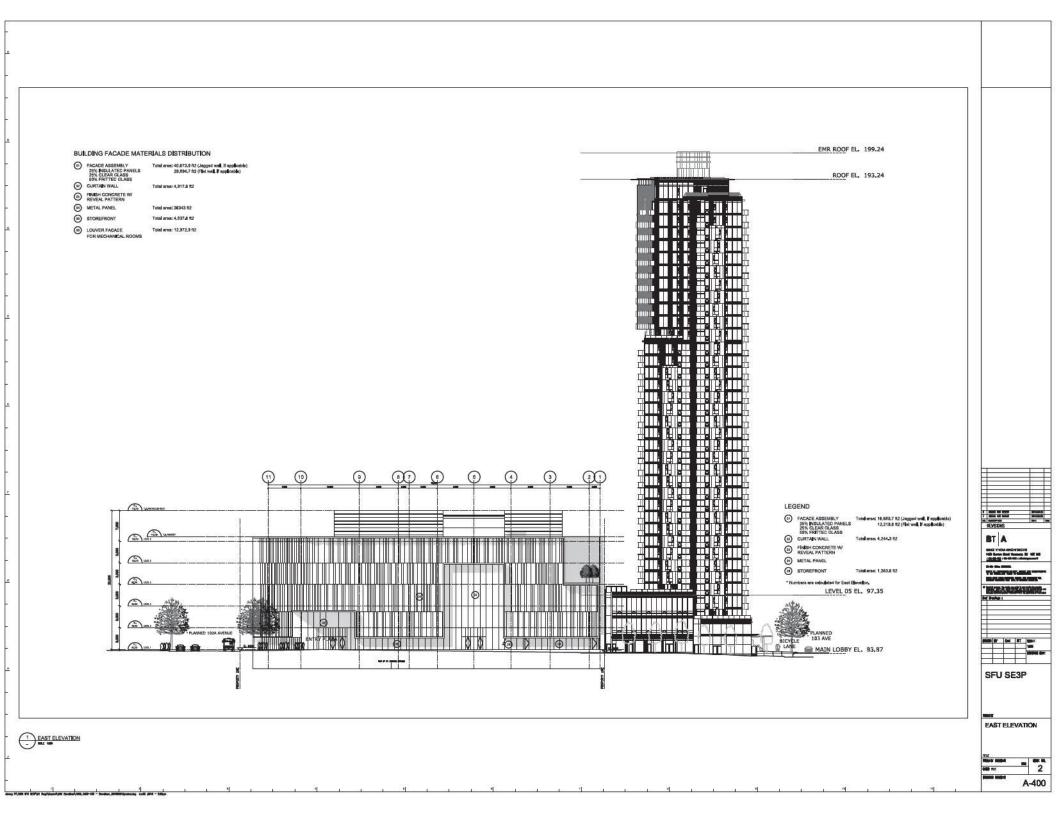


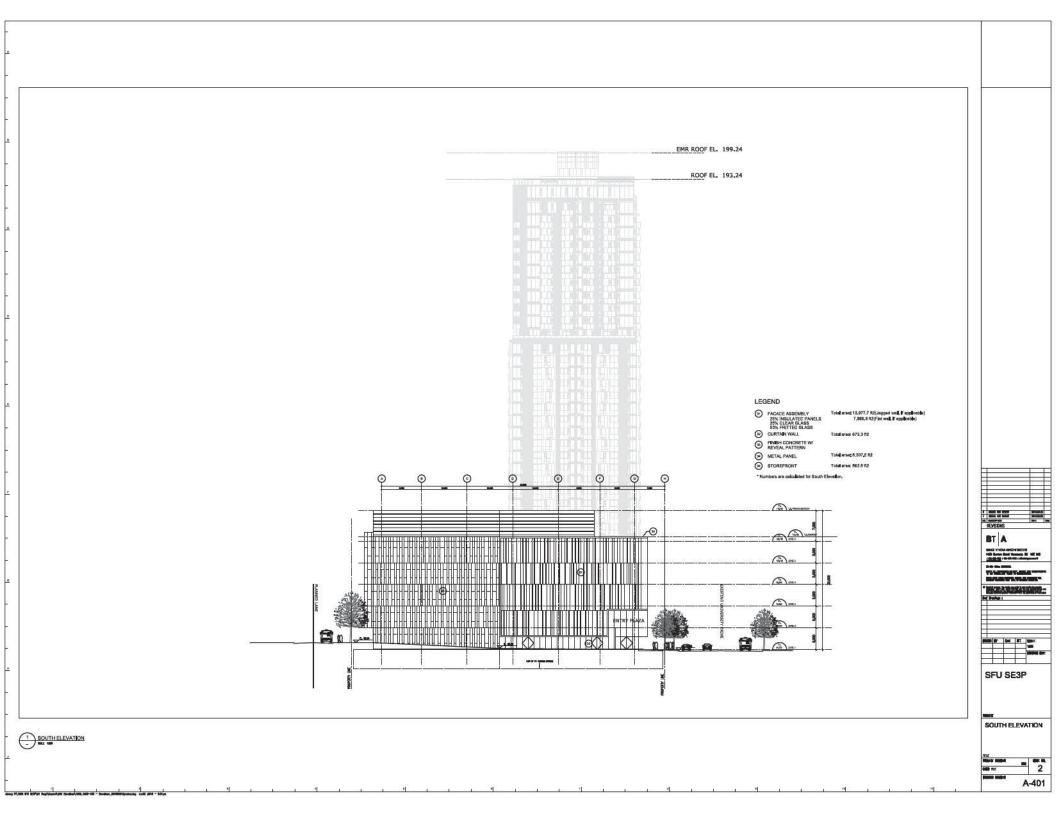


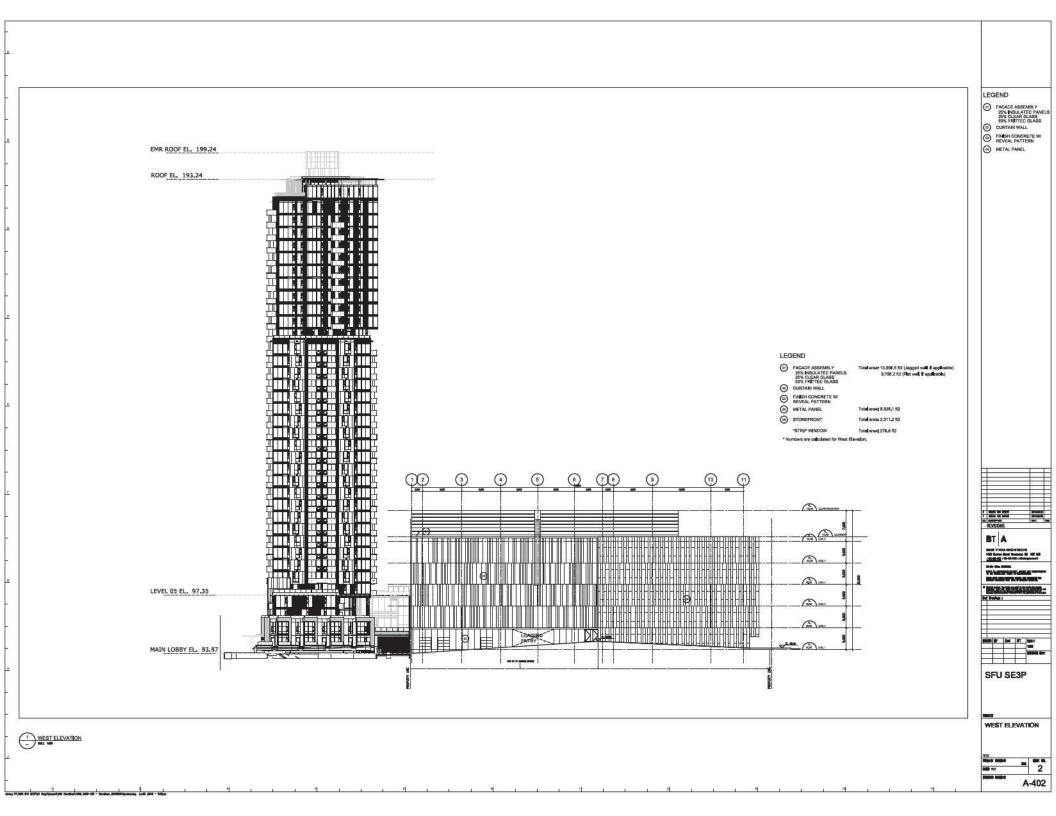


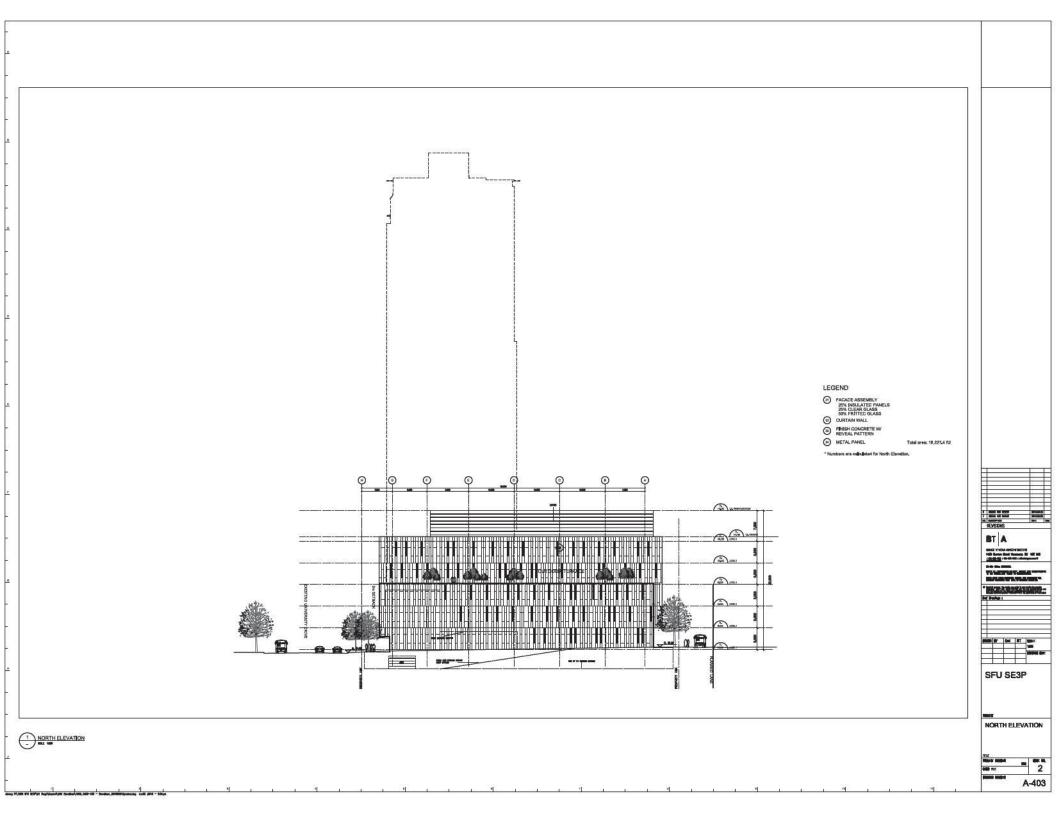


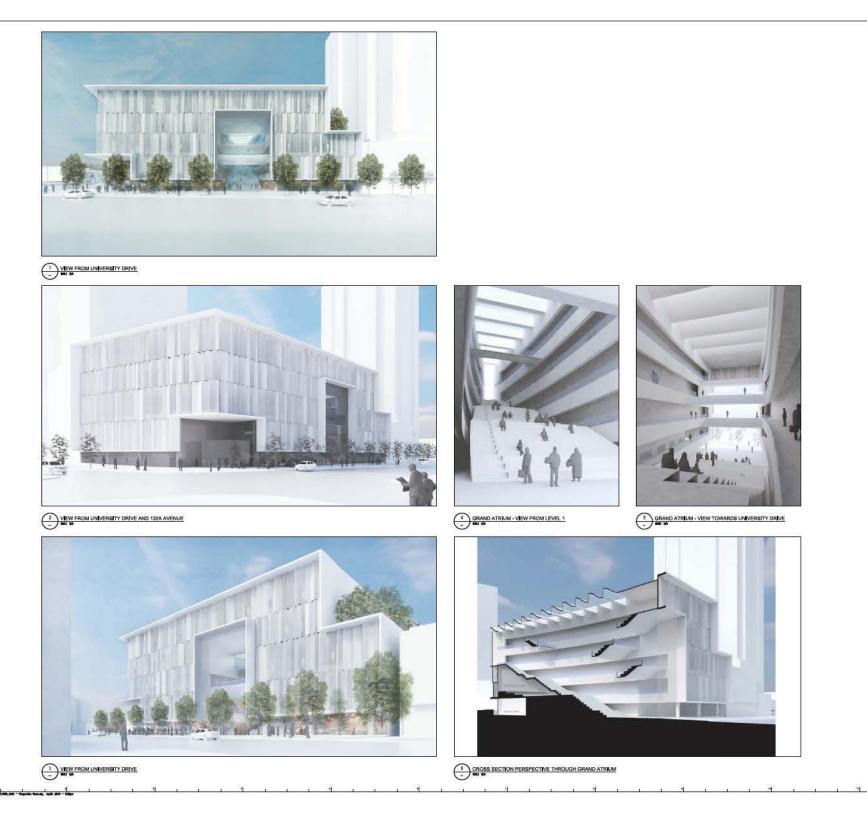












SFU SE3P

PERSPECTIVE VIEWS

A-404

#### **PRECEDENTS**



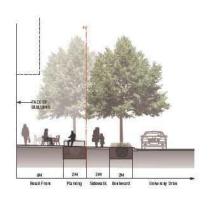


#### **PRECEDENTS**

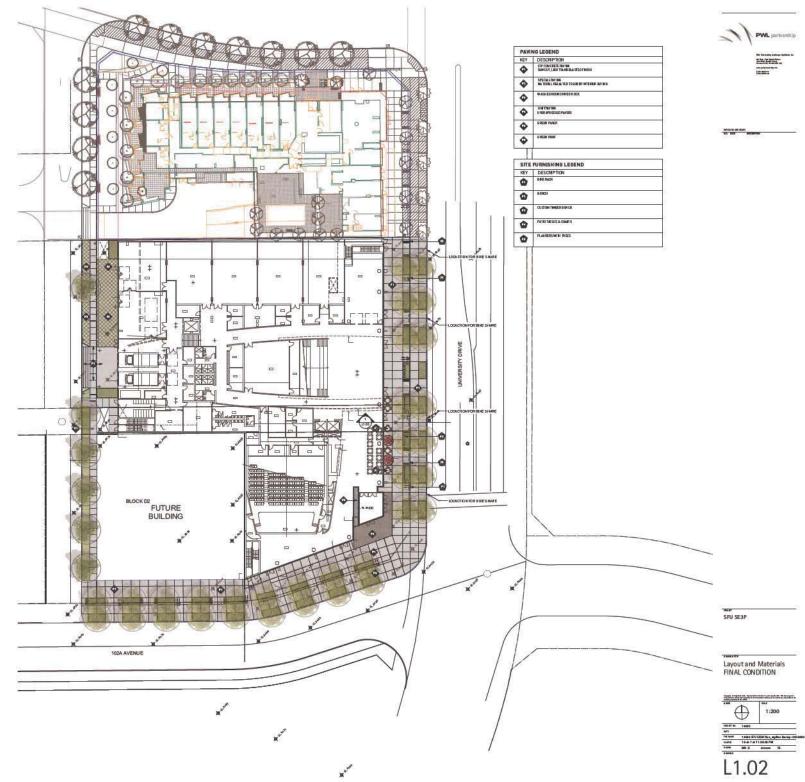








SECTION 1 - THROUGH STREETSCAPE



#### **PRECEDENTS**











## INTER-OFFICE MEMO

TO:

Manager, Area Planning & Development

- North Surrey Division

Planning and Development Department

FROM:

**Development Project Engineer, Engineering Department** 

DATE:

July 6, 2016

PROJECT FILE:

7816-0240-00

RE:

**Engineering Requirements** 

Location: 13400/08/18 - 103 Avenue, 13433 - 102A Avenue, 10281 University Drive

#### REZONE/SUBDIVISION

## Property and Right-of-Way Requirements

#### Current:

- Dedicate 6.0 m along the west property line for an ultimate 12 m wide Green Lane;
- Provide 0.5 m wide statutory right-of-way along Green Lane; and
- Provide 0.5 m wide statutory right-of-way along University Drive.

#### Future

- Dedicate 20 m for 102A Avenue realignment;
- Dedicate corner cuts at the intersection of University Drive and 102A Avenue;
- Provide 0.5 m wide statutory right-of-way along both sides of realigned 102A Avenue;

#### Works and Services

#### Current:

- Construct west side of University Drive to Arterial standard;
- Construct Green Lane within 6 m dedication, as required;
- · Construct sanitary sewer diversion;
- Construct storm main in Green Lane and divert existing flows, as required;
- · Provide off-site statutory right-of-way for sanitary main; and
- Register restrictive covenant for sustainable drainage, water quality/sediment control, sanitary pump connection, no-build and legal document for District Energy.

#### Future

- Construct 102A Avenue as a full road to Local standard; and
- Construct sanitary main, storm main and water main within realigned 102A Avenue

A Servicing Agreement is required prior to Rezone/Subdivision.

#### **DEVELOPMENT PERMIT (GENERAL)**

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

Rémi Dubé, P.Eng.

Development Services Manager

HB<sub>4</sub>

NOTE: Detailed Land Development Engineering Review available on file

#### CITY OF SURREY

| <b>BYLAW</b> | NO. |
|--------------|-----|
|--------------|-----|

A by-law to amend Surrey Zoning By-law, 1993, No. 12000, as amended

THE CITY COUNCIL of the City of Surrey ENACTS AS FOLLOWS:

- 1. Surrey Zoning By-law, 1993, No. 12000, as amended, is hereby further amended, pursuant to the provisions of Section 479 of the <u>Local Government Act</u>, R.S.B.C. 2015, c. 1, as amended by changing the classification of the following parcels of land, presently shown upon the maps designated as the Zoning Maps and marked as Schedule "A" of Surrey Zoning By-law, 1993, No. 12000, as amended as follows:
  - (a) FROM: SINGLE FAMILY RESIDENTIAL ZONE (RF)
    - TO: COMPREHENSIVE DEVELOPMENT ZONE (CD)

Parcel Identifier: 012-326-879 Lot 5 Block "C" Section 27 Block 5 North Range 2 West New Westminster District Plan 1726

13408-103 Avenue

Parcel Identifier: 012-326-887 Lot 6 Block "C" Section 27 Block 5 North Range 2 West New Westminster District Plan 1726

13418-103 Avenue

Parcel Identifier: 011-262-303 East 66 Feet of the East 175 Feet Lot "A" Section 27 Block 5 North Range 2 West New Westminster District Plan 7802

13400-103 Avenue

Parcel Identifier: 029-294-827 Lot B Section 27 Block 5 North Range 2 West New Westminster District Plan BCP52191 10281 University Drive That portion of lane shown on the Survey Plan attached hereto and forming part of this Bylaw, as Schedule A, certified correct by Scott Netherton, B.C.L.S. on the 10 <sup>th</sup> day of June, 2016, containing 440.5 square metres, called Block A.

(b) FROM: COMMUNITY COMMERCIAL ZONE (C-8)

TO: COMPREHENSIVE DEVELOPMENT ZONE (CD)

Portion of Parcel Identifier: 024-847-003

Lot 1 Section 27 Block 5 North Range 2 West New Westminster District Plan LMP46320, as shown as Block B, on the Survey Plan attached hereto and forming part of this Bylaw, as Schedule B, certified correct by Adam Fulkerson, B.C.L.S. on the 6<sup>th</sup> day of July, 2016, containing 1,284.7 square metres.

Portion of 13433-102A Avenue

(hereinafter 1.(a) and (b) shall be referred to as the "Lands")

2. The following regulations shall apply to the *Lands*:

#### A. Intent

This Comprehensive Development Zone is intended to accommodate and regulate the development of comprehensive institutional uses such as universities and colleges in the *City Centre*.

### **B.** Permitted Uses

The *Lands* and *structures* shall be used for the following uses only, or for a combination of such uses:

- 1. Universities named under the <u>University Act</u>, R.S.B.C. 1996, c.468, as amended.
- 2. Colleges and Institutes designated as such under the <u>College and Institute</u> <u>Act</u>, R.S.B.C. 1996, c.52, as amended.
- 3. Eating establishments, limited to a maximum 150 square metres (1,615 sq.ft.) in size, excluding *drive-through restaurants*.
- 4. Office uses excluding *social escort services*.

## C. Lot Area

Not applicable to this Zone.

#### D. **Density**

The floor area ratio shall not exceed 3.8.

#### E. **Lot Coverage**

The *lot coverage* shall not exceed 90%.

#### F. Yards and Setbacks

Buildings and structures shall be sited in accordance with the following 1. minimum setbacks:

| Setback                   | Front<br>Yard<br>(102A<br>Avenue) | Rear<br>Yard<br>(North) | Side<br>Yard<br>(West) | Side Yard<br>on Flanking<br>Street<br>(University |
|---------------------------|-----------------------------------|-------------------------|------------------------|---|
| Use                       | /ivenue)                          |                         |                        | Drive)  |
| Principal Buildings and   |                                   |                         |                        |   |
| Accessory Buildings       | 5.0 m                             | 5.0 m                   | 2.0 m                  | 5.0 m   |
| and Structures            | [16 ft.]                          | [16 ft.]                | [6.6 ft.]              | [16 ft.]  |
| Measurements to be determ | ined as per F                     | Part 1 Definit          | ions of Surre          | ey Zoning By-la                                   |

v, 1993, No. 12000, as amended.

- Notwithstanding Section F.1, the setback for principal buildings and 2. accessory buildings and structures may be reduced to zero for interior lot lines.
- Notwithstanding Section F.1, canopies may be permitted within any 3. setback.

#### G. **Height of Buildings**

Measurements to be determined as per Part 1 Definitions of Surrey Zoning By-law, 1993, No. 12000, as amended.

- **Principal buildings**: The building height shall not exceed 35 metres [115 ft.].
- 2. Accessory buildings and structures: The building height shall not exceed 4.5 metres [15 ft.].

#### H. Off-Street Parking

- 1. Parking spaces shall be provided in accordance with Part 5 Off-Street Parking and Loading/Unloading of Surrey Zoning By-law, 1993, No. 12000, as amended.
- 2. All required *parking spaces* shall be provided as *underground parking* or as *parking within building envelope*.
- 3. Notwithstanding Section H.1, a minimum of 115 *parking spaces* shall be provided.
- 4. *Tandem parking* is not permitted.
- 5. Notwithstanding Sub-section A.3(d) of Part 5 Off-Street Parking and Loading/Unloading of Surrey Zoning By-law, 1993, No. 12000, as amended the *underground parking facility* may extend up to 0.5 metre (1.6 ft.) of the *front lot line* and the *lot line* along a *flanking street*.

## I. Landscaping

- All developed portions of the *lot* not covered by *buildings*, *structures* or paved areas shall be landscaped including the retention of mature trees. This *landscaping* shall be maintained.
- 2. The boulevard areas of *highways* abutting a *lot* shall be seeded or sodded with grass on the side of the *highway* abutting the *lot*, except at *driveways*.
- 3. Garbage containers and *passive recycling containers* shall be located within a *building* or within the *underground parking*.

### J. Subdivision

*Lots* created through subdivision in this Zone shall conform to the following minimum standard:

| Lot Size     | Lot Width | Lot Depth |  |
|--------------|-----------|-----------|--|
| 4,500 sq. m. | 30 metres | 30 metres |  |
| [1.1 acre]   | [100 ft.] | [100 ft.] |  |

Dimensions shall be measured in accordance with Section E.21 of Part 4 General Provisions of Surrey Zoning By-law, 1993, No. 12000, as amended.

### K. Other Regulations

In addition to all statutes, bylaws, orders, regulations or agreements, the following are applicable, however, in the event that there is a conflict with the provisions in this Comprehensive Development Zone and other provisions in Surrey Zoning By-law, 1993, No. 12000, as amended, the provisions in this Comprehensive Development Zone shall take precedence:

- 1. Definitions are as set out in Part 1 Definitions of Surrey Zoning By-law, 1993, No. 12000, as amended.
- 2. Prior to any use, the *Lands* must be serviced as set out in Part 2 Uses Limited, of Surrey Zoning By-law, 1993, No. 12000, as amended and in accordance with the servicing requirements for the Community Commercial Zone (C-35), as set forth in the Surrey Subdivision and Development By-law, 1986, No. 8830, as amended.
- 3. General provisions are as set out in Part 4 General Provisions of Surrey Zoning By-law, 1993, No. 12000, as amended.
- 4. Additional off-street parking requirements are as set out in Part 5
  Off-Street Parking and Loading/Unloading of Surrey Zoning By-law, 1993,
  No. 12000, as amended.
- 5. Sign regulations are as set out in Surrey Sign By-law, 1999, No. 13656, as amended.
- 6. Special *building setbacks* are as set out in Part 7 Special Building Setbacks, of Surrey Zoning By-law, 1993, No. 12000, as amended.
- 7. Building permits shall be subject to the Surrey Building Bylaw, 2012, No. 17850, as amended.
- 8. Building permits shall be subject to Surrey Development Cost Charge Bylaw, 2016, No. 18664, as may be amended or replaced from time to time. The Development Cost Charges shall be based as follows:
  - (a) Development Cost Charges for the portion of building developed for Universities named under the <u>University Act</u>, R.S.B.C. 1996, c.468, as amended, Colleges and Institutes designated as such under the <u>Colleges and Institutes Act</u>, R.S.B.C. 1996, c.52, as amended, shall be based on the rate for Public and Private Schools (Post Secondary); and
  - (b) Notwithstanding Section 8 (a), Development Cost Charges for commercial uses shall be based on the rate for Commercial.
- 9. Tree regulations are set out in Surrey Tree Protection Bylaw, 2006, No. 16100, as amended.
- 10. Development permits may be required in accordance with the Surrey *Official Community Plan* By-law, 2013, No. 18020, as amended.

| 3.    | This By-law shall be cited for al Amendment By-law, , No |        | s as "Surrey Z | Zoning By-la | ıw, 1993, No  | . 12000,      |
|-------|--|--------|----------------|--------------|---------------|---------------|
| PASSE | D FIRST READING on the                                   | th day | of             | , 20 .       |               |               |
| PASSE | D SECOND READING on the                                  | th d   | ay of          | , 20 .       |               |               |
| PUBLI | C HEARING HELD thereon on t                              | he     | th day of      |              | , 20 .        |               |
| PASSE | D THIRD READING on the                                   | th day | of             | , 20 .       |               |               |
|       | NSIDERED AND FINALLY ADO<br>rate Seal on the th day o    |        | gned by the M  | Mayor and C  | lerk, and sea | aled with the |
|       |  |        |                |              |               | MAYOR         |
|       |  |        |                |              |               | CLERK         |

SURVEY PLAN TO ACCOMPANY CITY OF SURREY REZONING BYLAW No.

OVER A PORTION OF ROAD DEDICATED BY PLAN 1726 LYING IN SECTION 27

BLOCK 5 NORTH RANGE 2 WEST NEW WESTMINSTER DISTRICT

BCGS 92G.016

#### LEGEND

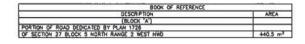
DENOTES CONTROL MONUMENT FOUND
 DENOTES STANDARD IRON POST FOUND
(c) DENOTES CALCULATED

INTEGRATED SURVEY AREA NO. 1, SURREY, NADB3 (CSRS) 4,0,0,8C,1,GVRD

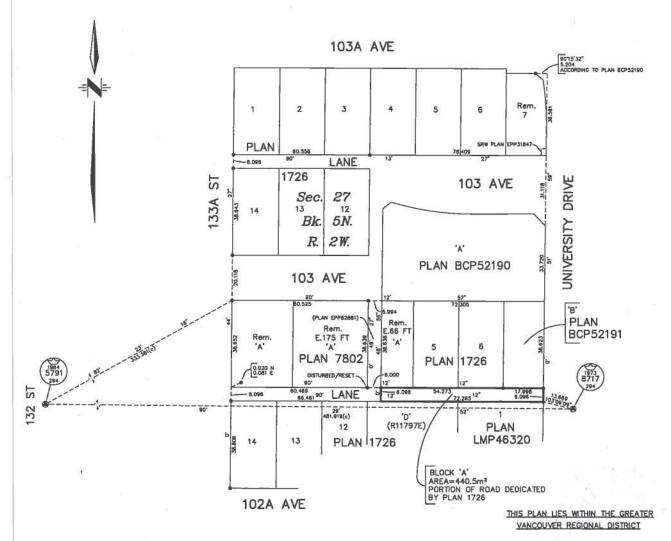
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THIS PLAN SHOWS HOMZONTAL GROUND-LEVEL DISTANCES UNLESS DITHERMSE SPECIFIED. TO COMPUTE GRID DISTANCES, MULTIPLY GROUND-LEVEL DISTANCES BY THE AVERAGE COMBINED SCALE FACTOR OF 0.9995913 WHICH HAS BEEN DETRIVED FROM CONTROL MONUMENT 8777.

THE INTENDED PLOT SIZE OF THIS PLAN IS
432mm IN WOTH BY 580mm IN HEIGHT
(USE C SIZE SHEET) WHEN PLOTTED AT A SCALE OF 1:750.





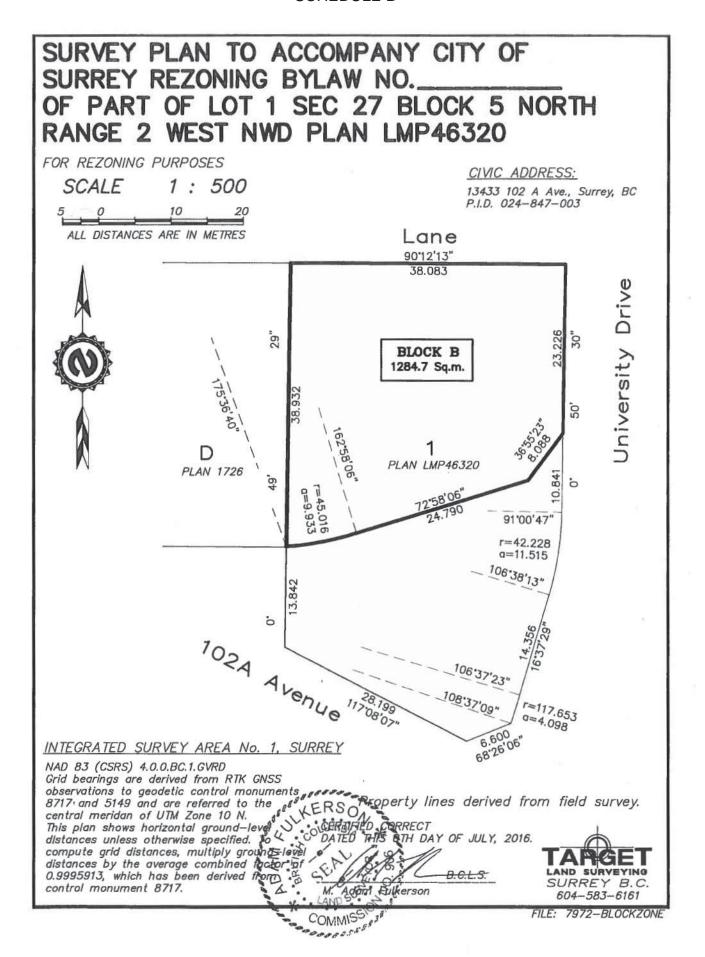


CITY OF SURREY SURVEY SECTION

13450 - 104 AVE. SURREY, B.C. V3X 3A2 TEL. (604) 591-4253 FAX (604) 591-8893 CERTIFIED CORRECT ACCORDING TO FIELD SURVEY THIS 10th DAY OF JUNE, 2016

SE Welhert,
SCOTT E. NETHERTON BCLS

530850.dwg



# ARBORTECH CONSULTING a division of: ACL GROU



## TREE PRESERVATION SUMMARY

**Surrey Project No.:** 7916-0240-00

Project Address: University Drive at 102A Ave, Surrey BC

Consulting Arborist: Norman Hol

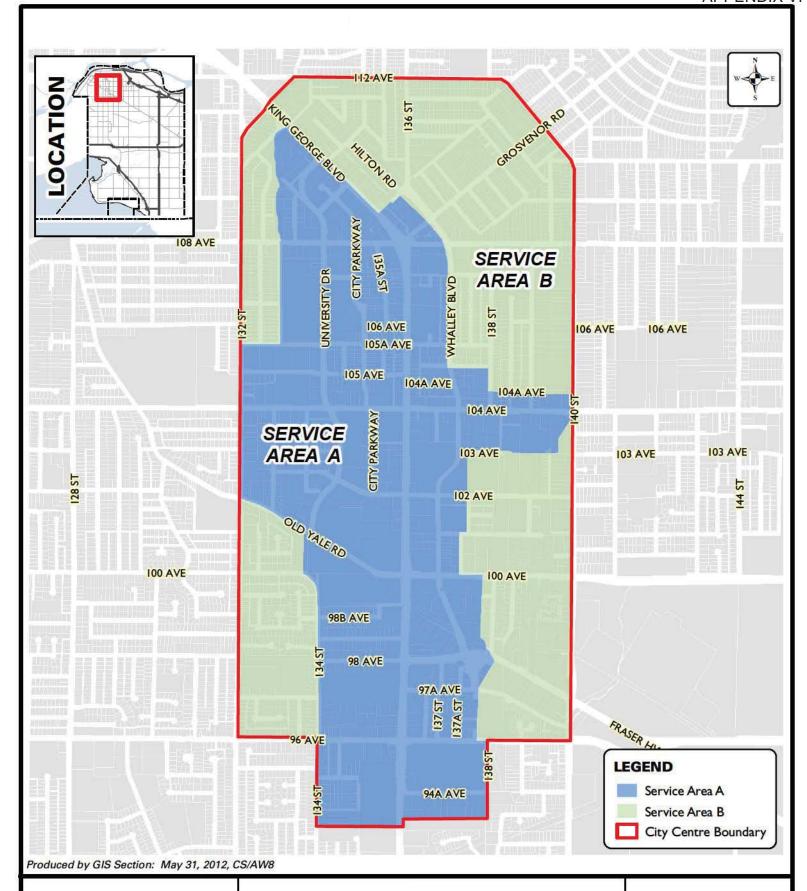
| ON-SITE TREES:   | QUANTITY OF TREES 3 |   |                   |  |
|--|---------------------|---|-------------------|--|
| Total Bylaw Protected Trees Identified (on-site and shared trees, including trees within boulevards and proposed streets and lanes, excluding Park and ESA dedications)  Bylaw Protected Trees to be Removed |                     |   |                   |  |
|  |                     |   | 3                 |  |
| Bylaw Protected Trees to be Retained (excludes trees in Park dedication areas and ESA's)   |                     |   | 0                 |  |
| Replacement Trees Required:  |                     |   |                   |  |
| Alder and Cottonwood at 1:1 ratio:   | 0 times 1 =         | 0 |                   |  |
| All Other Bylaw Protected Trees at 2:1 ratio:  | 3 times 2 =         | 6 |                   |  |
| TOTAL:   |                     |   | 6                 |  |
| Replacement Trees Proposed   |                     |   | by landscape arch |  |
| Replacement Trees in Deficit   |                     |   | N/A               |  |
| Protected Trees Retained in Proposed Open Space/ Riparian Areas  |                     |   | N/A               |  |

| OFF-SITE TREES:                               |              |    | QUANTITY OF TREES |  |
|---|--------------|----|-------------------|--|
| Bylaw Protected Off-Site Trees to be Removed  |              |    | 14                |  |
| Replacement Trees Required:                   |              |    |                   |  |
| Alder and Cottonwood at 1:1 ratio:            | 0 times 1 =  | 0  |                   |  |
| All Other Bylaw Protected Trees at 2:1 ratio: | 14 times 2 = | 28 |                   |  |
| TOTAL:  |              |    | 14                |  |
| Replacement Trees Proposed                    |              |    | N/A               |  |
| Replacement Trees in Deficit                  |              |    | N/A               |  |

This summary and the referenced documents are prepared and submitted by:

Norman Hol, Consulting Arborist Dated: June 23, 2016 Direct: 604 813 9194 Email: norm@aclgroup.ca

PAGE 1 OF 1





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

ENGINEERING DEPARTMENT