



# City of Richmond

## Report to Development Permit Panel

**To:** Development Permit Panel

**Date:** February 19, 2019

**From:** Wayne Craig  
Director, Development

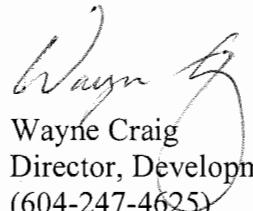
**File:** DP 16-741329

**Re:** **Application by 0908206 BC Ltd. for a Development Permit at 9560, 9580 and 9584 Granville Avenue**

### Staff Recommendation

That a Development Permit be issued which would:

1. Permit the construction of 16 two-storey townhouse units at 9560, 9580, and 9584 Granville Avenue on a site zoned “Medium Density Townhouses (RTM2)”; and
2. Vary the provisions of Richmond Zoning Bylaw 8500 to increase the maximum lot coverage for buildings from 40% to 45%.

  
Wayne Craig  
Director, Development  
(604-247-4625)

WC:el  
Att. 3

## **Staff Report**

### **Origin**

0908206 BC Ltd. has applied to the City of Richmond for permission to develop 16 two-storey townhouse units at 9560, 9580 and 9584 Granville Avenue. The site is being rezoned from “Single Detached (RS1/F)” zone to “Medium Density Townhouses (RTM2)” under Bylaw 9573 (RZ 14-677733), which received Third Reading following the Public Hearing on July 18, 2016. The site is currently vacant. A Servicing Agreement for the design and construction of required frontage beautification works and service connections is required prior to issuance of a Building Permit for the site.

### **Development Information**

Please refer to the attached Development Application Data Sheet (Attachment 1) for a comparison of the proposed development data with the relevant Bylaw requirements.

### **Background**

Development surrounding the subject site is as follows:

- To the north, across Granville Avenue, existing three-storey townhouse developments on lots zoned “Medium Density Townhouses (RTM1)” and “Town Housing (ZT56) – North McLennan (City Centre)”, and a single-family home on a large lot zoned “Single Detached (RS1/F)”.
- To the east, four single-family homes on small lots zoned “Single Detached (RS1/A)” fronting Granville Avenue with rear lane access, and a single-family home on a large lot zoned “Single Detached (RS1/F)” fronting Bridge Street.
- To the south, existing two-storey townhouse developments on lots zoned “Town Housing (ZT16) – South McLennan and St. Albans Sub-Area (City Centre)”.
- To the west, existing two-storey townhouse development on a lot zoned “Medium Density Townhouses (RTM2)” with vehicle access from Ash Street.

### **Rezoning and Public Hearing Results**

The Public Hearing for the rezoning of this site was held on July 18, 2016. No concerns regarding the rezoning application was expressed at the Public Hearing.

### **Staff Comments**

The proposed scheme attached to this report has satisfactorily addressed the urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the applicable sections of the Official Community Plan (OCP) and is generally in compliance with the “Medium Density Townhouses (RTM2)” except for the zoning variances noted below.

**Zoning Compliance/Variances** (staff comments in ***bold***)

The applicant requests to vary the provisions of Richmond Zoning Bylaw 8500 to increase the maximum lot coverage for buildings from 40% to 45%.

*(This variance was identified at rezoning stage, and no concerns were identified at that time. The proposed development features all two-storey townhouse units, each with a side-by-side double car garages. This typology typically requires a higher lot coverage for buildings when compares to three-storey townhouse units with tandem parking spaces (which is also permitted on this site). To mitigate the potential implication of the higher lot coverage for buildings the developer is proposing to:*

- i. *achieve a greater lot coverage for porous surfaces on site (i.e., 49%) by using permeable pavers on the drive aisle and surface parking stalls; which exceeds the minimum requirement of 35% under the RTM zone; and*
- ii. *achieve a greater lot coverage for landscaping with live plant materials (i.e., 27%); which exceeds the minimum requirement of 25% under the RTM zone.*

*Staff supports this variance since the proposed two-storey building massing helps address potential adjacency concerns, and that the proposed increases in lot coverage for porous surfaces and landscaping with live plant materials are a reasonable response to the increased site coverage).*

**Advisory Design Panel Comments**

The Advisory Design Panel (ADP) has reviewed and supported the project. A copy of the relevant excerpt from the Advisory Design Panel Minutes from Wednesday, October 4, 2017 is attached for reference (Attachment 2). The design response from the applicant has been included immediately following the specific Design Panel comments and is identified in '***bold italics***'.

**Analysis*****Conditions of Adjacency***

- Both the form and massing of the proposed development are consistent with the existing surrounding two-storey townhouse developments to the west and south.
- Along the side yard interface with adjacent single-family developments to the east, the windows on the second floor of the proposed townhouse units will be specified with frosted glass to address potential privacy and overlook concerns.
- A six foot tall fence and hedging materials will be installed along the east and west property lines to provide a buffer between the subject and adjacent developments.
- The proposed 3.9 m rear yard (south) setback exceeds the minimum rear yard setback requirement under the “Medium Density Townhouses (RTM2)” zone. One Whitebarked Himalayan Birch tree or Austrian Black Pine tree will be planted in each of the rear yards of the townhouse units along the south property line to provide a nature screen between the subject and adjacent townhouse developments.

- The site is surrounded by existing retaining walls to the east, west and south. Site grade will be raised to meet the existing site grades on the adjacent properties.
- Perimeter drainage will be required as part of the Building Permit to ensure storm water is managed and addressed through the development and will not impact the neighbouring properties.

### ***Urban Design and Site Planning***

- The proposal provides for a pedestrian-oriented streetscape fronting Granville Avenue with a landscaped edge treatment, low metal fencing, and metal gates to the street fronting units. A pedestrian walkway from Granville Avenue to the development site is proposed along the east side of the entry driveway.
- The proposal consists of 16 units provided in four townhouse clusters. Half of the units will have direct pedestrian access from the street and half of the units will have access from the internal drive aisle.
- The internal road layout is a T-shape with future cross-access connection to the neighbouring properties to the east, secured by SRW. No connection to the adjacent property to the west is required since it has already been redeveloped into a townhouse complex with vehicle access off Ash Street.
- The number of residential parking spaces proposed for this townhouse development exceeds the minimum parking requirement within the City Centre area, and all units will have two vehicle parking spaces in a side-by-side parking arrangement within a garage.
- A total of four visitor parking spaces, including an accessible visitor parking space, are proposed, which meets the minimum bylaw requirement. Both residential and visitor bicycle parking are provided in compliance with the Zoning Bylaw requirements.
- The provision of private outdoor spaces complies with the Development Permit Guidelines ( $30\text{ m}^2$  per unit) of the Official Community Plan (OCP). All units will have private outdoor spaces consisting of a front or rear yard; the street fronting units will also have a balcony on the second floor facing the internal drive aisle.
- Outdoor amenity space is proposed opposite to the site entry for maximum casual surveillance opportunity and sun exposure. The size and location of the outdoor amenity space is appropriate in providing open landscape and amenity space convenient to all units.
- Additional outdoor amenity space (10% of the site area), as per the City Centre Amenity Space Provisions in the City Centre Area Plan, is proposed and includes the entry walkway and various landscaped areas throughout the site.
- A covered mailbox kiosk and short-term bicycle parking spaces will be provided along the entry walkway.
- The required garbage, recycling and organic waste storage enclosures have been incorporated into the design of the street fronting buildings to minimize the visual impact of these enclosures.

***Architectural Form and Character***

- The architect advised that the architectural language adopted in the design is inspired from the conventional single-family homes in the area.
- The massing and architectural rhythm of the proposed townhouse clusters is consistent to the neighbouring developments.
- Individuality of dwelling units is expressed by their separate entry porches and different entry door colours.
- The overall appearance of the proposal generally conforms to the design guidelines of the North McLennan area and should fit in well with the character of the surrounding area.
- A pedestrian scale is generally achieved along the public streets and internal drive aisle through the inclusion of variation in building projections, recesses, entry porches, varying material/colour combinations, landscape features, and the use of individual unit entrances.
- The impact of blank garage doors has been mitigated with panel patterned doors, transom windows, unit entrances, and planting islands along the drive aisle.
- The proposed building materials (asphalt roof shingles, hardie siding/panels and wood trim/brackets) are generally consistent with the Official Community Plan (OCP) Guidelines and are compatible with the existing single-family character of the neighbourhood.
- Heritage colours have been used for all siding materials to fit with the context of the neighbourhood. Strong contrasting colours are used on the accent walls/trims to provide visual interest.

***Landscape Design and Open Space Design***

- Tree preservation was reviewed at rezoning stage. Two City trees along the frontage of the site and four trees on site are identified for removal. Based on the 2:1 tree replacement ratio goal stated in the Official Community Plan (OCP), eight replacement trees are required. The applicant is proposing to plant 33 replacement trees on-site, including seven conifers and 26 deciduous trees.
- An English Oak tree (tag#930 – 43+22cm calliper) located at the northeast corner of the development site is identified for retention. Tree protection fencing is required to be installed as per the Arborist Report recommendations prior to any construction activities (including demolition) occurring on-site. A Tree Survival Security has been secured at the rezoning stage.
- A pedestrian-oriented streetscape along Granville Avenue is proposed; with a landscaped edge treatment, low metal fencing with masonry columns, and gates and walkways to individual townhouse unit front doors.
- Each unit will have a private yard with landscaping and lawn area. Various hedges, shrubs and ground covers, as well as perennials and grasses have been selected to ensure the landscape treatment remains interesting throughout the year.
- An on-site irrigation system is proposed to ensure continued maintenance of live landscaping.

- The location of outdoor amenity space provides the easy access and visual transparency and surveillance for the townhouse residents. The proposed trellis at the terminus point of the entry driveway/entrance to the outdoor amenity space provides visual screening and spatial definition.
- A tower slide and a single springer are proposed within the outdoor amenity area. These play structures/elements are chosen to fit into the provided space and to allow multiple children to play at the same time. The equipment provides different play opportunities for the development of social, imagination, balance, and motor skills. A bench is also provided for caregivers.
- The drive aisle and surface parking stalls will be treated with permeable pavers for better water infiltration and variety in paving surfaces. Feature paving will be used to identify and enhance the pedestrian route along the internal drive aisle.
- In order to ensure that the proposed landscaping works are completed, the applicant is required to provide a landscape security of \$160,929.00 in association with the Development Permit.
- Indoor amenity space is not proposed on-site. A \$16,000 cash-in-lieu contribution (\$1,000 per unit) has been secured as a condition of rezoning approval, consistent with the Official Community Plan (OCP).

### ***Crime Prevention Through Environmental Design***

- Site lighting and clear site lines provide unobstructed views of surrounding area; plantings near residential entries are low to maximize views and casual surveillance opportunities.
- Exterior lights will be provided along drive aisle, as well as in visitor parking, outdoor amenity, and private yard areas; wall mount illuminated lights will be installed on building faces. All exterior lights will be equipped with a diffuser to reduce glare.
- All entrances are visible and overlooked by pedestrians or by neighbour's windows.

### ***Sustainability***

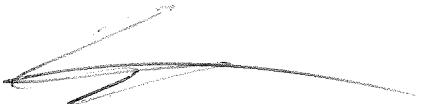
- The applicant has committed to achieving an EnerGuide rating of 82 for the proposed townhouses and to pre-ducting all units for solar hot water heating.
- A Certified Energy Advisor has confirmed that the proposed townhouse units will be designed to achieve an EnerGuide rating of 82. The report prepared by the Energy Advisor is on file and will be utilized through the Building Permit review process to ensure these measures are incorporated in the Permit drawings.
- The following design/features will be incorporated into the development:
  - Energy Star rated windows.
  - Use of LED lights, low-flow toilets, Energy Star appliances.

### ***Accessible Housing***

- The proposed development includes two convertible units that are designed with the potential to be easily renovated to accommodate a future resident in a wheelchair. The potential conversion of these units will require installation of a vertical lift in the stacked storage space (which has been dimensioned to allow for this in Units 2 & 3) in the future, if desired.
- All of the proposed units incorporate aging in place features to accommodate mobility constraints associated with aging. These features include:
  - Stairwell hand rails.
  - Lever-type handles for plumbing fixtures and door handles.
  - Solid blocking in washroom walls to facilitate future grab bar installation beside toilets, bathtubs and showers.

### **Conclusions**

As the proposed development would meet applicable policies and Development Permit Guidelines, staff recommend that the Development Permit be endorsed, and issuance by Council be recommended.



Edwin Lee  
Planner 1  
(604-276-4121)

EL:blg

Attachment 1: Development Application Data Sheet

Attachment 2: Excerpt from Advisory Design Panel Meeting Minutes (August 22, 2018)

Attachment 3: Development Permit Considerations



# City of Richmond

## Development Application Data Sheet

Development Applications Department

**DP 16-741329**

**Attachment 1**

Address: 9560, 9580 and 9584 Granville Avenue

Applicant: 0908206 BC Ltd. Owner: 0908206 BC Ltd.

Planning Area(s): South McLennan Sub-Area (City Centre)

Floor Area Gross: 2,510.6 m<sup>2</sup> Floor Area Net: 1,908.2 m<sup>2</sup>

	Existing	Proposed
<b>Site Area:</b>	2,936 m <sup>2</sup>	No Change
<b>Land Uses:</b>	Single-Family Residential	Multiple-Family Residential
<b>OCP Designation:</b>	Neighbourhood Residential	No Change
<b>Area Plan Designation:</b>	CCAP: General Urban T4 South McLennan Sub-Area Plan: Residential, 2½ storey typical (3-storeys maximum) with 0.55 base FAR	No Change
<b>Zoning:</b>	Single Detached (RS1/F)	Medium Density Townhouses (RTM2)
<b>Number of Units:</b>	3	16

	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	Max. 0.65	0.65	none permitted
Lot Coverage – Building:	Max. 40%	45%	<b>Variance Requested</b>
Lot Coverage – Non-porous Surfaces:	Max. 65%	51%	none
Lot Coverage – Landscaping:	Min. 25%	27%	none
Setback – Front Yard (m):	Min. 6.0 m	6.0 m	none
Setback – East Side Yard (m):	Min. 3.0 m	3.52 m	none
Setback – West Side Yard (m):	Min. 3.0 m	3.0 m	none
Setback – Rear Yard (m):	Min. 3.0 m	3.9 m	none
Height (m):	Max. 12.0 m (3 storeys)	9.52 m (2 storeys)	none
Lot Width (m):	Min. 30.0 m	67.2 m	none
Lot Depth (m):	Min. 35 m	43.4 m	none
Off-street Parking Spaces – Regular (R) / Visitor (V):	1.4 (R) and 0.2 (V) per unit	2 (R) and 0.25 (V) per unit	none

Off-street Parking Spaces – Total:	23 (R) and 4 (V)	32 (R) and 4 (V)	none
Tandem Parking Spaces:	Max. 50% of required residential spaces in enclosed garages (23 x Max. 50% = 11 spaces)	0	none
Small Car Parking Spaces	Max. 50% when 31 or more spaces are provided on site (36 x Max. 50% = 18)	16	none
Handicap Parking Spaces:	Min. 2% when 11 or more spaces are required (27 x 2% = 1 space)	1	none
Bicycle Parking Spaces – Class 1 / Class 2:	1.25 (Class 1) and 0.2 (Class 2) per unit	1.25 (Class 1) and 0.25 (Class 2) per unit	none
Off-street Bicycle Parking Spaces – Total:	20 (Class 1) and 4 (Class 2)	20 (Class 1) and 4 (Class 2)	none
Amenity Space – Indoor:	Min. 70 m <sup>2</sup> or Cash-in-lieu	Cash-in-lieu	none
Amenity Space – Outdoor:	Min. 6 m <sup>2</sup> x 16 units = 96 m <sup>2</sup>	98.8 m <sup>2</sup>	none

**Excerpt from the Minutes from  
The Design Panel Meeting**

**Wednesday, October 4, 2017 – 4:00 p.m.  
Rm. M.1.003  
Richmond City Hall**

**1. DP 16-741329 - 16-UNIT TWO-STORY TOWNHOUSE DEVELOPMENT**

ARCHITECT: Eric Law Architect

PROPERTY LOCATION: 9560, 9580 and 9584 Granville Avenue

**Applicant's Presentation**

Eric Law, Eric Law Architect, Inc., and Jenny Liu, JHL Design Group Inc., presented the project and answered queries from the Panel.

**Panel Discussion**

*Comments from the Panel were as follows:*

- appreciate the applicant contributing to the City's Public Art Fund; however, the applicant is also encouraged to investigate opportunities for integrating public art into the project as it will add value to the project and will help the project's integration with the community;

*Owner prefers to pay contribution to the public art fund.*

- consider introducing canopies over the doors of the unit entries to the rear units to create a stronger visual prominence along the internal drive aisle and help provide separation of the rear buildings from the drive aisle;

*A decorative gable roof feature added to the rear units to highlight a stronger visual prominence.*

- appreciate the proposed two-storey massing for the townhouse development; also appreciate the detailing of the two convertible units; however, consider (i) integrating the bump out for the future elevator with the usable ground floor space of the convertible unit to provide additional space for the dining area, and (ii) relocating the front door entrance on the ground floor to increase the size of the powder room and the width of the sliding door to enhance accessibility;

*The dining area is bumped out to provide additional space. The powder room is enlarged slightly and closet removed to provide easy access to the powder room.*

- ensure the visibility the bicycle racks and other low structures adjacent to the garbage and recycling area during truck pick-ups to avoid potential damage;

***A bright color bicycle racks will be provided to ensure visibility.***

- appreciate the breaking up of the roofline along Granville Avenue; consider a similar approach for the rear buildings to provide a more neighbourly interface with the existing two-storey townhouse development to the south;

***Rear roof lines are adjusted to be broken up similar to the front building.***

- appreciate the proposed lay-out for the kitchen which provides a workable work triangle and a three-foot clearance underneath the counter;

***Noted.***

- limited landscaping opportunities along the internal drive aisle is noted; applicant is advised to provide more detail and commitment, for review by City staff, regarding retention of soil volume for proposed planting of trees along the internal drive aisle to ensure their survival, e.g. use of soil cell or structural soil;

***Limited spaces for the proposed trees along the internal drive, so the landscape architect is proposing structural soil to have trees in these areas.***

- consider relocating the proposed tree and plantings at the back of the outdoor amenity area to the edges to open up the lawn area and provide more play space for children;

***Landscape on the outdoor amenity area has been updated.***

- reconsider the placement of windows of townhouse units looking out into the play area to provide privacy to users of the play area;

***Windows have been provided for surveillance and safety purpose. Please also see non-concern comments on the same item below.***

- consider eliminating the long and narrow gaps between the duplexes along Granville Avenue to (i) provide more landscaping opportunities at the east and west edges of the site, (ii) provide more separation from the adjacent townhouse developments along Granville Avenue, (iii) provide more opportunities for planting along the sides of the entry driveway, and (iv) increase the size of the front yards of units along Granville Avenue;

***The long and narrow gaps have been reduced. Unit 13 to Unit 16 are shifted to provide a wider access entrance along Granville Revised. The landscape plans are adjusted to provide more landscape opportunities wherever we can.***

- relocate the electrical rooms between the duplexes along Granville Avenue to the side yards and introduce plantings to provide screening around the electrical rooms;

***The electrical room has been relocated to the east side yard area with landscape planting.***

- consider opening up the side yards along Granville Avenue to provide more usable outdoor yard spaces for residents; consider installing a gate adjacent to the visitor parking space to provide access to the side yard;

*The side yards are counted towards the additional 10% public open space as required. Fences are provided between the open spaces and the adjoining dwelling units.*

- support the landscaping scheme to provide seasonal all year round interest;

*Noted.*

- support the densification of the area which is in close proximity to parks and schools; appreciate the size of the townhouse units and the applicant's attention to the livability of the units; however, outdoor spaces have been marginalized; *noted*.

- support the comment to eliminate the long and narrow spaces between the duplexes along Granville Avenue as they not usable and have compromised the side yard spaces and the main entry point to the site; make the side yards usable for residents and clarify their ownership;

*The long and narrow gaps have been reduced to provide a wider access entrance along Granville Avenue as commented above. The side yards are for the additional 10% public open space as required by City. Gates are provided between the open spaces and the adjoining dwelling units for the south units.*

- appreciate the proximity of garbage, recycling, and other amenities to Granville Avenue; however, consider (i) reconfiguring the arrangement of these amenities to locate them on one side, and (ii) increasing the width of the entry driveway and install a pedestrian sidewalk along the driveway adjacent to these amenities to provide pedestrian access into and out of the site;

*The entrance driveway width has been enlarged to have a sidewalk along the driveway. The recycle and garbage rooms are to be kept small and separated so that they are not visually prominence as one piece.*

- consider installing small gables above the unit entries to the rear units to provide a stronger visual prominence along the internal drive aisle and facilitate way finding;

*Small gables are provided above the rear unit entrance.*

- support the proposal to break up the roofs in the rear buildings; may not enhance sunlight penetration into the central drive aisle but will help make the general massing of the rear buildings more neighbourly to the adjacent townhouse development to the south;

*The rear building roofs are broken up similar to the front building.*

- support the comment to maximize the usable space on the side yards adjacent to the corner units;

***The corner open space are required as part of the 10% additional public space. These spaces are not counted as private side yard. Gates are provided between the public spaces and yard spaces.***

- consider less prescriptive but more interesting and intuitive play opportunities for children at the outdoor amenity area;

***Please see revised landscape plan.***

- not concerned with side windows of units looking out into the outdoor amenity area;

***Noted, and please also see comments above.***

- appreciate the large area for living spaces on the ground floor of townhouse units; however, they are located deep into the units and natural light penetration may be limited; investigate opportunities for introducing more openings, e.g. clerestory windows to allow more natural light into the living spaces;

***The effective depth of the rear units' living space is only approximately 20'. The units are provided with patio doors which will have lot of light penetration from the south.***

- appreciate the project providing more density to the area; however, Granville Avenue could support three-storey townhouse units as the neighbourhood grows and changes in the future; the proposed two-storey massing is challenging in terms of providing a sense of opening to the site, e.g. width of drive aisle entry needs to be increased;

***The 2 storey building approach is consistent to 2 storey townhouse context. The drive aisle entry width is now increased.***

- support the comment to eliminate the narrow space between the duplexes along Granville Avenue as they are a potential CPTED concern; however, maintain the proposed roofline;

***The narrow gaps are reduced and the roof profile is maintained.***

- in general, supportive of the proposed 45 percent variance in maximum coverage for buildings;

***Noted.***

- unit entries to the rear units feel secondary compared to unit entries along Granville Avenue; consider introducing a gabled canopy over the entry doors of the rear units slightly ahead of the garage doors and slightly recessing the entry doors to make them more visually significant;

***A decorative gable roof feature added to the rear units to highlight a stronger visual prominence.***

- not opposed to the comment to break up the roofs of the rear buildings; the move may not enhance sunlight penetration to the central drive aisle but will enhance the buildings' form and character; roofs of the rear buildings could hip and follow the direction of the dormers and install a roof cricket with a different pitch lower in height to the dormers;

***The rear building roofs are broken up with different roof pitch similar to the front building.***

- support the comment to eliminate the space between the duplexes along Granville Avenue to provide more space for the side yards and the front entry;

***The gap between duplex are reduced to provide a wider entrance and sidewalk from Granville Avenue.***

- consider flipping one of two townhouse units with adjacent unit entries along the internal drive aisle to provide more articulation and separation to the unit entries to the rear units;

***Townhouse unit 7 is flipped to provide more identifiable entry to the unit.***

- a three-storey scheme for the proposed development is preferable; however, the applicant has done a good job in the proposed two-storey scheme;

***The 2 storey building approach is considered to be consistent to 2 storey surrounding townhouse context.***

- understand the rationale for the proposed two-storey scheme; however, the proposed development need not conform to the site context in terms of the design of neighbouring developments but could still be consistent with the City's vision for the neighbourhood; and

***Noted.***

- agree with the comment that proposed developments need not be contextually sensitive and similar all the time; City staff could encourage applicants to introduce some variety and diversity in massing and articulation in the neighbourhood.

***Noted.***

- (*The Chair read into the minutes the following comments submitted by Panel member Jubin Jalili regarding the mechanical and sustainability aspect of the project*)
- the project seems to be on the right track with respect to sustainability with the following proposed features by the design team: Energuide rating of 82, use of Energy Star-rated vinyl windows and appliances, and use of LED interior and exterior lighting;

***Noted.***

- proposed mechanical system for the project is not clear; recommend the use of Heat Recovery Units in the townhouse units;  
*Heat recovery ventilation units are provided in the townhouse as noted on A1.*
- not clear on the landscape drawings where the gas meters will be installed; and  
*Gas meter located on the east side yard as noted on A2.*
- overall, a good package; support the project.

**Panel Decision**

It was moved and seconded

*That DP 16-741329 be supported to move forward to the Development Permit Panel subject to the applicant giving consideration to the comments of the Advisory Design Panel.*

**CARRIED**



**City of  
Richmond**

ATTACHMENT 3

## **Development Permit Considerations**

Development Applications Department  
6911 No. 3 Road, Richmond, BC V6Y 2C1

**Address:** 9560, 9580 and 9584 Granville Avenue

**File No.:** DP 16-741329

**Prior to approval of the Development Permit, the developer is required to complete the following:**

1. Final adoption of the Zoning Amendment Bylaw 9573.
2. Receipt of a Letter of Credit for landscaping in the amount of \$160,929.00.

**Prior to Building Permit Issuance, the developer must complete the following requirements:**

1. Installation of appropriate tree protection fencing around all hedges to be retained as part of the development prior to any construction activities, including building demolition, occurring on-site.
2. Enter into a Servicing Agreement\* for the design and construction of frontage improvement works. A Letter of Credit or cash security for the value of the Service Agreement works, as determined by the City, will be required as part of entering into the Servicing Agreement. Works include, but may not be limited to:

Granville Avenue Frontage Improvements

- a) Match curb alignment on the south side of Granville Avenue as set out by the redevelopments to the east and west of the site (i.e., road widening to 11.2 m curb to curb, curb & gutter, creation of about a 3.3 m wide grass & treed boulevard, concrete sidewalk at north property line). Extend frontage upgrades established by 7028 Ash Street development to the west as per SA 12-603914.
- b) Employ a Geotechnical Engineer to confirm the adequacy of the existing soil conditions along Granville Avenue frontage. All peat and organic materials shall be removed and replaced with compacted structural fill to subgrade elevations from property line to Granville Avenue centerline.
- c) Extend the existing street lighting system built via SA12-603914 across the Granville Avenue frontage of the proposed site.
- d) Coordinate with BC Hydro, Telus and other private communication service providers:
  - (1) Underground proposed private utility service lines (e.g., BC Hydro, Telus, etc.).
  - (2) Remove the existing poles and underground the existing overhead lines along Granville Avenue frontage.
  - (3) To determine if above ground structures are required and coordinate their on-site locations (e.g. Vista, PMT, LPT, Shaw cabinets, Telus Kiosks, etc.).

Water Works:

- e) Submit Fire Underwriter Survey (FUS) or International Organization for Standardization (ISO) fire flow calculations to confirm the development has adequate fire flow for onsite fire protection. Calculations must be signed and sealed by a Professional Engineer and be based on Building Permit Stage Building designs.
- f) Install a new 100 mm water service connections complete with meter and meter box along Granville Avenue frontage.
- g) Cut and cap at main three (3) existing water service connections along the proposed site's Granville Avenue frontage.

Storm Sewer Works:

- h) Provide additional right of way to accommodate new IC's within the property, details to be finalized in the Servicing Agreement process.
- i) Cut and cap nine (9) existing storm service connections and remove nine (9) existing IC located along the proposed site's Granville Avenue frontage.

Initial: \_\_\_\_\_

- j) Install a new storm service connection complete with IC and tie-in to the existing 600 mm storm sewer along Granville Avenue.

Sanitary Sewer Works:

- k) Remove and dispose offsite the existing sanitary main along the rear yard of the proposed site from the west property line of 9560 Granville Avenue to the west property line of 9584 Granville Avenue. Removal works shall include the existing service connections, inspection chamber and manhole that are connected to the pipe to be removed.
- l) Discharge the existing utility right-of-way along the rear yard of the proposed site. Prior to discharge of the right-of-way, a signed and sealed letter by a Professional Engineer must be submitted to the City, stating the sanitary main, as depicted within the Servicing Agreement design, has been properly and legally removed and disposed of off-site.
- m) Provide a new utility right of way to accommodate new sanitary manhole at the southwest corner of 9560 Granville Avenue. The right-of-way details are to be finalized in the Servicing Agreement process.
- n) Cut and cap near the west property line of 9560 Granville Avenue the existing sanitary main along the proposed site's rear yard.
- o) Install a new manhole, complete with a service connection stub, to the proposed site and tie-in the new manhole to the capped end of the existing rear yard sanitary main. The tie-in and service connection details shall be finalized via the Servicing Agreement design process.

General Items:

- p) Additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering may be required, including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.
- 3. Submission of a Construction Parking and Traffic Management Plan to the Transportation Department. Management Plan shall include location for parking for services, deliveries, workers, loading, application for any lane closures, and proper construction traffic controls as per Traffic Control Manual for works on Roadways (by Ministry of Transportation) and MMCD Traffic Regulation Section 01570.
- 4. Incorporation of energy efficiency, CPTED, sustainability, and accessibility measures in Building Permit (BP) plans as determined via the Rezoning and/or Development Permit processes.
- 5. Payment of DCC's (City & GVS&DD), School Site Acquisition Charges, Address Assignment Fee, and all required servicing costs.
- 6. Obtain a Building Permit (BP) for any construction hoarding. If construction hoarding is required to temporarily occupy a public street, the air space above a public street, or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For additional information, contact the Building Approvals Department at 604-276-4285.

**Note:**

- \* This requires a separate application.
- Where the Director of Development deems appropriate, the preceding agreements are to be drawn not only as personal covenants of the property owner but also as covenants pursuant to Section 219 of the Land Title Act.

All agreements to be registered in the Land Title Office shall have priority over all such liens, charges and encumbrances as is considered advisable by the Director of Development. All agreements to be registered in the Land Title Office shall, unless the Director of Development determines otherwise, be fully registered in the Land Title Office prior to enactment of the appropriate bylaw.

The preceding agreements shall provide security to the City including indemnities, warranties, equitable/rent charges, letters of credit and withholding permits, as deemed necessary or advisable by the Director of Development. All agreements shall be in a form and content satisfactory to the Director of Development.

- Additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering may be required including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.
- Applicants for all City Permits are required to comply at all times with the conditions of the Provincial *Wildlife Act* and Federal *Migratory Birds Convention Act*, which contains prohibitions on the removal or disturbance of both birds and their nests. Issuance of Municipal permits does not give an individual authority to contravene these legislations. The City of Richmond recommends that where significant trees or vegetation exists on site, the services of a Qualified Environmental Professional (QEP) be secured to perform a survey and ensure that development activities are in compliance with all relevant legislation.

---

Signed

---

Date



# City of Richmond

## Development Permit

No. DP 16-741329

To the Holder: 0908206 BC LTD.

Property Address: 9560, 9580 AND 9584 GRANVILLE AVENUE

Address: C/O ERIC LAW  
ERIC LAW ARCHITECT INC.  
#216 – 288 WEST 8<sup>TH</sup> AVENUE  
VANCOUVER, BC V5Y 1N5

1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.
2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
3. The "Richmond Zoning Bylaw 8500" is hereby varied to increase the maximum lot coverage for buildings from 40% to 45%.
4. Subject to Section 692 of the Local Government Act, R.S.B.C.: buildings and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans #1 to #4 attached hereto.
5. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
6. As a condition of the issuance of this Permit, the City is holding the security in the amount of \$160,929.00 to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this Permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
7. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.

**Development Permit**  
**No. DP 16-741329**

To the Holder: 0908206 BC LTD.

Property Address: 9560, 9580 AND 9584 GRANVILLE AVENUE

Address: C/O ERIC LAW  
ERIC LAW ARCHITECT INC.  
#216 – 288 WEST 8<sup>TH</sup> AVENUE  
VANCOUVER, BC V5Y 1N5

---

8. The land described herein shall be developed generally in accordance with the terms and conditions and provisions of this Permit and any plans and specifications attached to this Permit which shall form a part hereof.

This Permit is not a Building Permit.

AUTHORIZING RESOLUTION NO. ,  
DAY OF ,

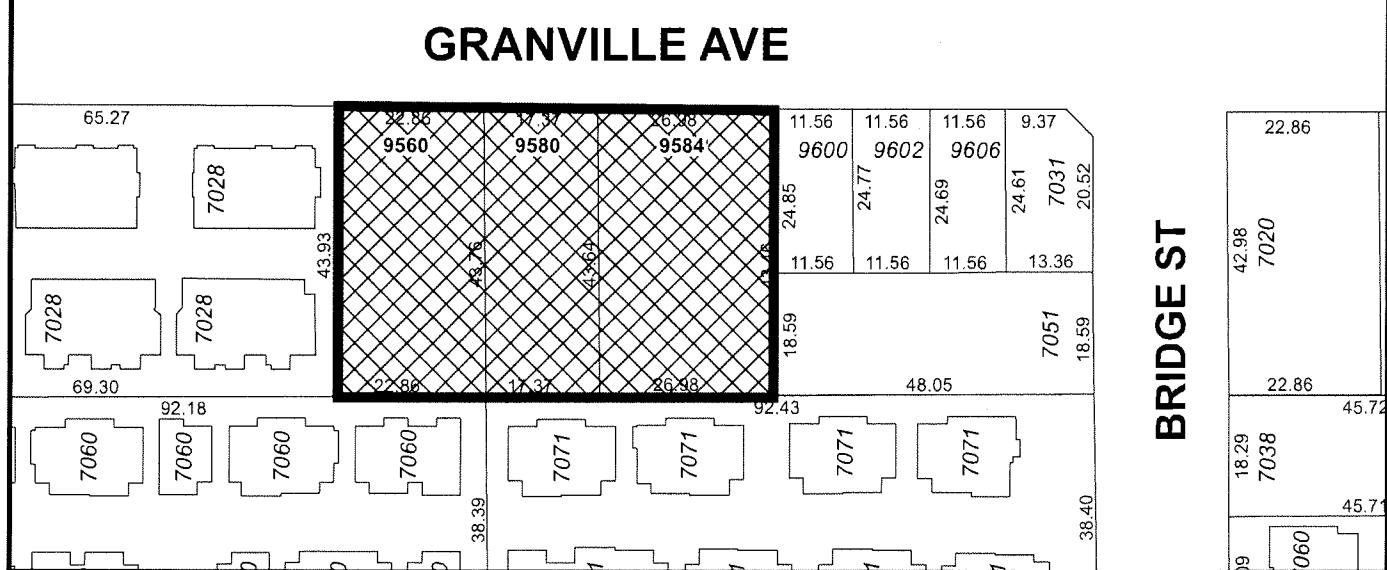
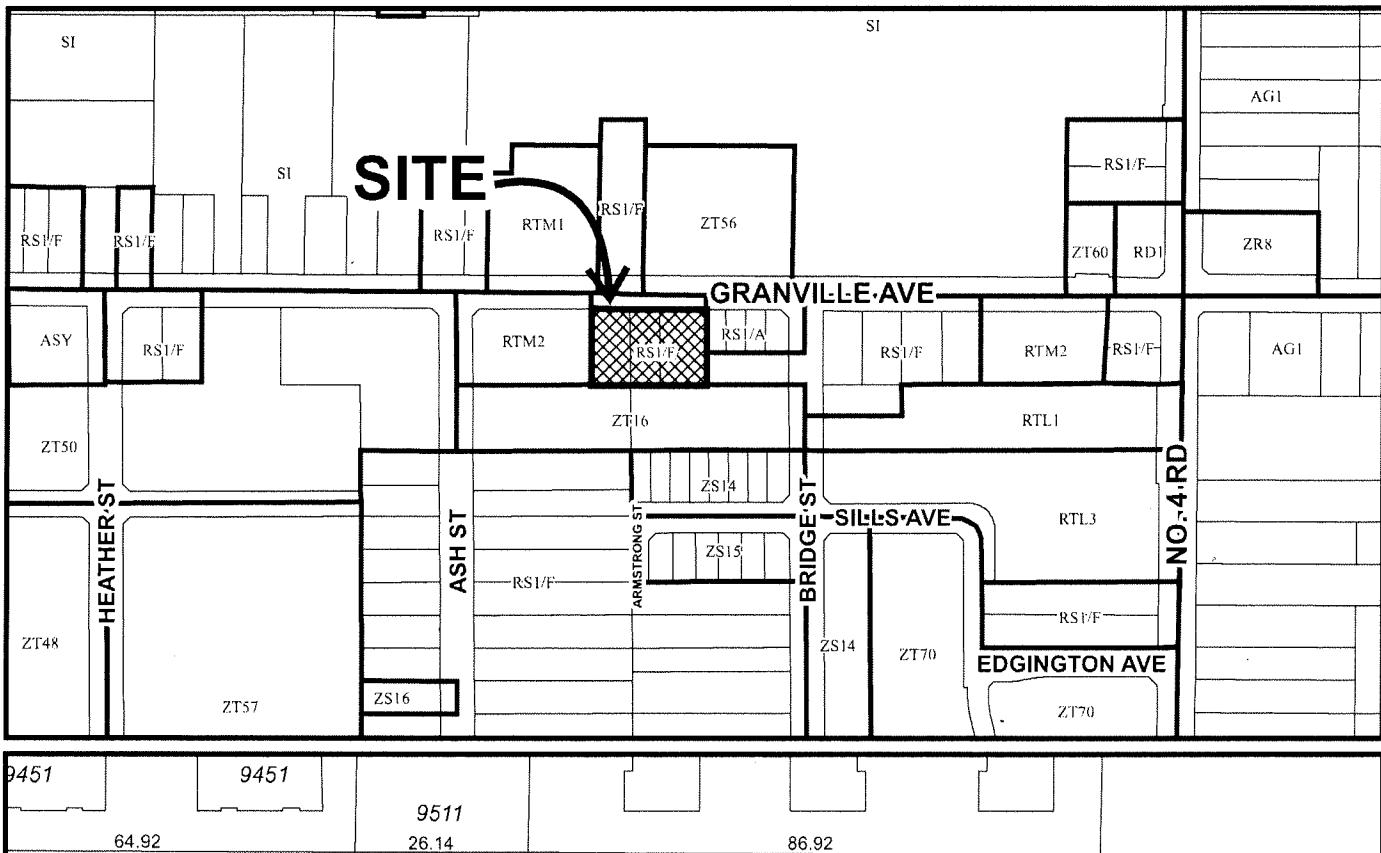
ISSUED BY THE COUNCIL THE

DELIVERED THIS DAY OF ,

MAYOR



# City of Richmond



<b>N</b>	<b>DP 16-741329</b> <b>SCHEDULE "A"</b>	Original Date: 09/14/16 Revision Date: Note: Dimensions are in METRES
----------	--	---



**ERIC LAW  
ARCHITECT**

ericlawarchitect@gmail.com

156 24TH AVENUE VANCOUVER BC

TEL: (604) 565-2059

FAX: (604) 565-2897

FINISH GRADE CALCULATION:  
NE LOT CORNER: 21.9  
SE LOT CORNER: 21.7  
SW LOT CORNER: 20.0  
AVERAGE: 20.8  
BLDG A 2.60/2.27=2.43 / 4 = 2.43  
BLDG B 2.40/2.45=2.60 / 4 = 2.51  
BLDG C 2.45/2.19=2.60 / 4 = 2.46  
BLDG D 2.39/2.40=2.34 / 4 = 2.33  
AVERAGE GRADE: 2.48x2.43 / 2 = 2.31 M. (7.61)

AVERAGE GRADE:

MAX CROWN OF THE ROAD: 2.3M

BUILDING HEIGHT: 11.8M -2.31M = 9.52M

CONDITIONS RECDERED: THIS DRAWING AND DESIGN ARE THE EXCLUSIVE PROPERTY OF ERIC LAW ARCHITECTURE INC. AND MAY NOT BE USED OR COPIED IN WHOLE OR IN PART WITHOUT MY WRITTEN CONSENT. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE IN THIS SPECIFIC PROJECT ONLY. IT IS NOT TO BE USED OTHERWISE WITHOUT WRITTEN PERMISSION.

ISSUED

1. 2016.08.10 FOR DEVELOPMENT PERMIT APPLICATION

2. 2016.07.31 FOR CITY REVIEW

3. 2017.09.19 FOR CITY ADP REVIEW

4. 2018.01.23 FOR CITY REVIEW

5. 2018.07.10 FOR CITY REVIEW

6. 2018.12.07 FOR CITY REVIEW

7. 2019.01.25 FOR CITY REVIEW

8. 2019.02.19 FOR CITY REVIEW

9. 2019.03.10 FOR CITY REVIEW

10. 2019.04.15 FOR CITY REVIEW

11. 2019.05.10 FOR CITY REVIEW

12. 2019.06.10 FOR CITY REVIEW

13. 2019.07.10 FOR CITY REVIEW

14. 2019.08.10 FOR CITY REVIEW

15. 2019.09.10 FOR CITY REVIEW

16. 2019.10.10 FOR CITY REVIEW

17. 2019.11.10 FOR CITY REVIEW

18. 2019.12.10 FOR CITY REVIEW

19. 2020.01.10 FOR CITY REVIEW

20. 2020.02.10 FOR CITY REVIEW

21. 2020.03.10 FOR CITY REVIEW

22. 2020.04.10 FOR CITY REVIEW

23. 2020.05.10 FOR CITY REVIEW

24. 2020.06.10 FOR CITY REVIEW

25. 2020.07.10 FOR CITY REVIEW

26. 2020.08.10 FOR CITY REVIEW

27. 2020.09.10 FOR CITY REVIEW

28. 2020.10.10 FOR CITY REVIEW

29. 2020.11.10 FOR CITY REVIEW

30. 2020.12.10 FOR CITY REVIEW

31. 2021.01.10 FOR CITY REVIEW

32. 2021.02.10 FOR CITY REVIEW

33. 2021.03.10 FOR CITY REVIEW

34. 2021.04.10 FOR CITY REVIEW

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40. 2021.10.10 FOR CITY REVIEW

41. 2021.11.10 FOR CITY REVIEW

42. 2021.12.10 FOR CITY REVIEW

43. 2022.01.10 FOR CITY REVIEW

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112. 2027.10.10 FOR CITY REVIEW

113. 2027.11.10 FOR CITY REVIEW

114. 2027.12.10 FOR CITY REVIEW

115. 2028.01.10 FOR CITY REVIEW

116. 2028.02.10 FOR CITY REVIEW

117. 2028.03.10 FOR CITY REVIEW

118. 2028.04.10 FOR CITY REVIEW

119. 2028.05.10 FOR CITY REVIEW

120. 2028.06.10 FOR CITY REVIEW

121. 2028.07.10 FOR CITY REVIEW

122. 2028.08.10 FOR CITY REVIEW

123. 2028.09.10 FOR CITY REVIEW

124. 2028.10.10 FOR CITY REVIEW

125. 2028.11.10 FOR CITY REVIEW

126. 2028.12.10 FOR CITY REVIEW

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132. 2029.06.10 FOR CITY REVIEW

133. 2029.07.10 FOR CITY REVIEW

134. 2029.08.10 FOR CITY REVIEW

135. 2029.09.10 FOR CITY REVIEW

136. 2029.10.10 FOR CITY REVIEW

ISSUED  
1 2018.06.10 FOR DEVELOPMENT PERMIT APPLICATION  
2 2018.07.31 FOR CITY REVIEW  
3 2018.08.19 FOR CITY ADP REVIEW  
4 2018.08.23 FOR CITY REVIEW  
5 2018.07.10 FOR CITY REVIEW  
6 2018.12.07 FOR CITY REVIEW  
7 2019.01.25 FOR CITY REVIEW

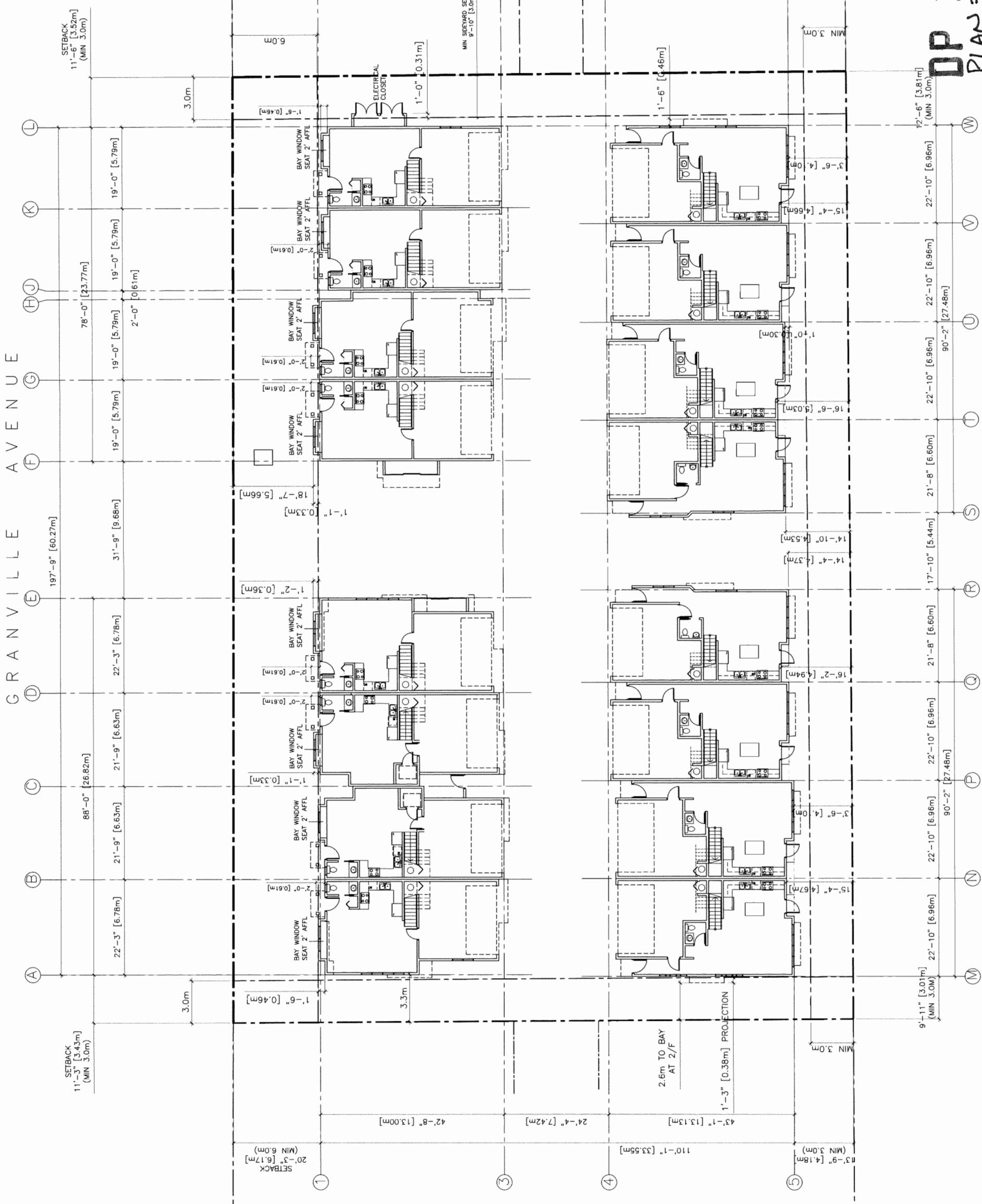
PROPOSED TOWNHOUSE  
AT  
9580 GRANVILLE AVE  
RICHMOND BC

ENVELOPE PROJECTIONS

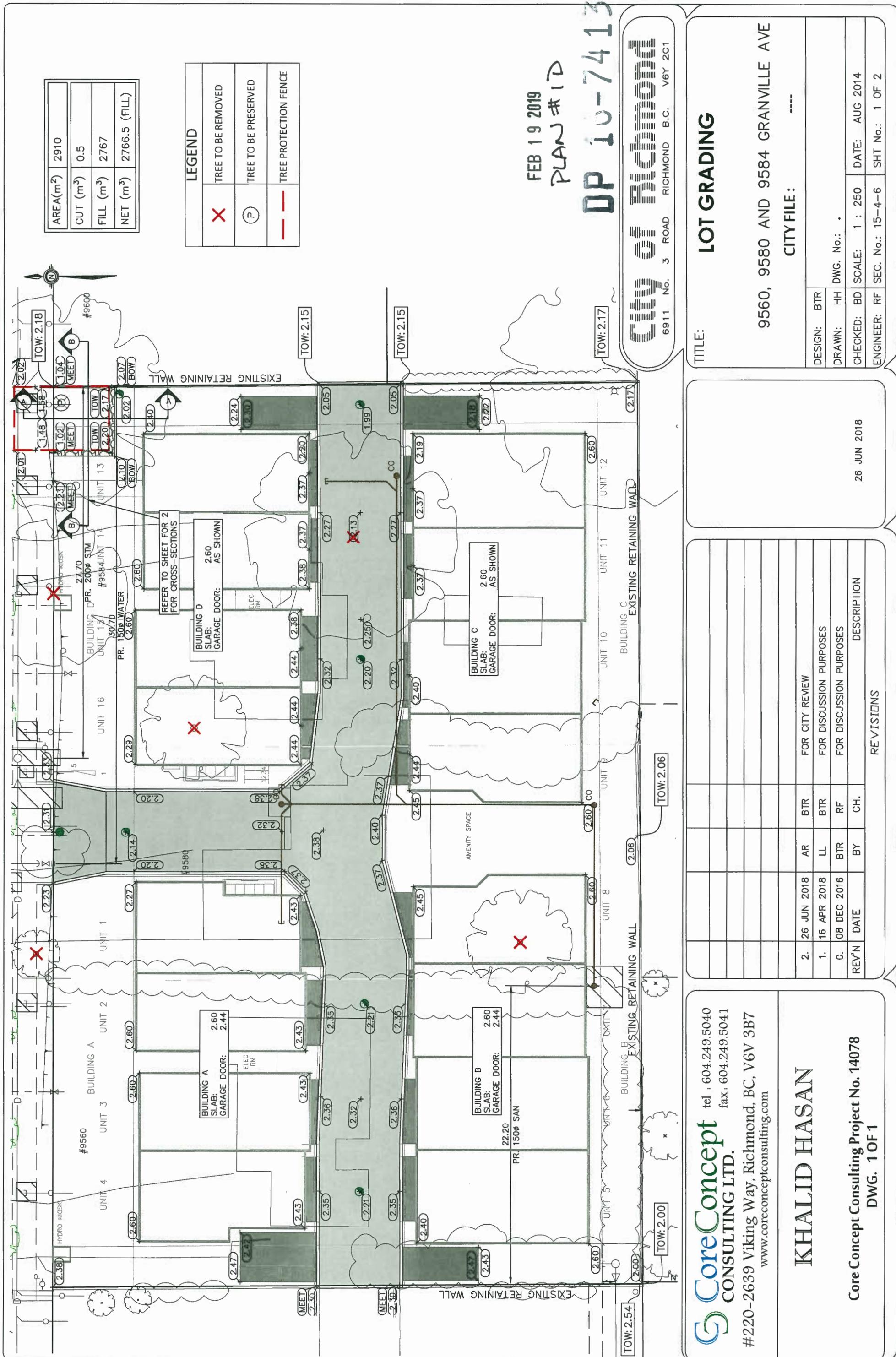
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ISSUED: 1/25/2019  
DRAWN BY: EL  
CHECKED BY: EL  
FILENAME: 14-30\_NGL\_190125-DWG.DWG

A2A

FEB 19 2019  
DP 16-741329  
PLAN B  
DP 16-741329









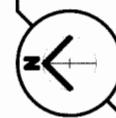


DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A

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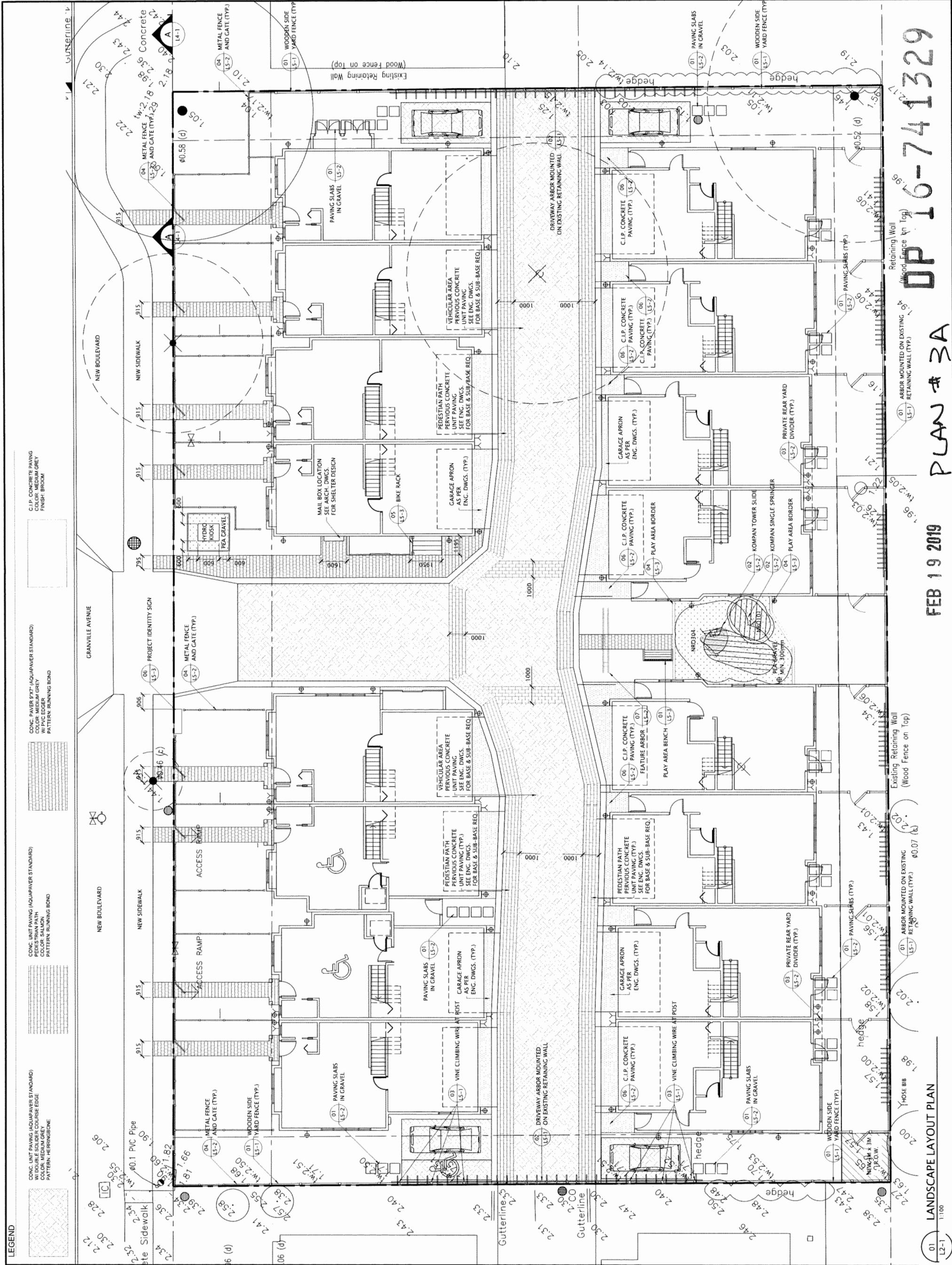
**Donald V. S. Duncan**  
DEVELOPMENT CONSULTANT  


603 - 220 Eleventh Street  
New Westminster BC  
Canada V3M 6N9  
778-791-4323  
[dvsduncaen@gmail.com](mailto:dvsduncaen@gmail.com)

**PROPOSED TOWNHOUSE**  
9560 9580 9584 Granville Avenue  
Richmond, British Columbia  
Canada V6V 1Z6

Drawing title **HARD LANDSCAPE**

Check Scale (may be photo reduced)  
0 10 mm  
Project No. 18-0039  
Drawing No.



DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A

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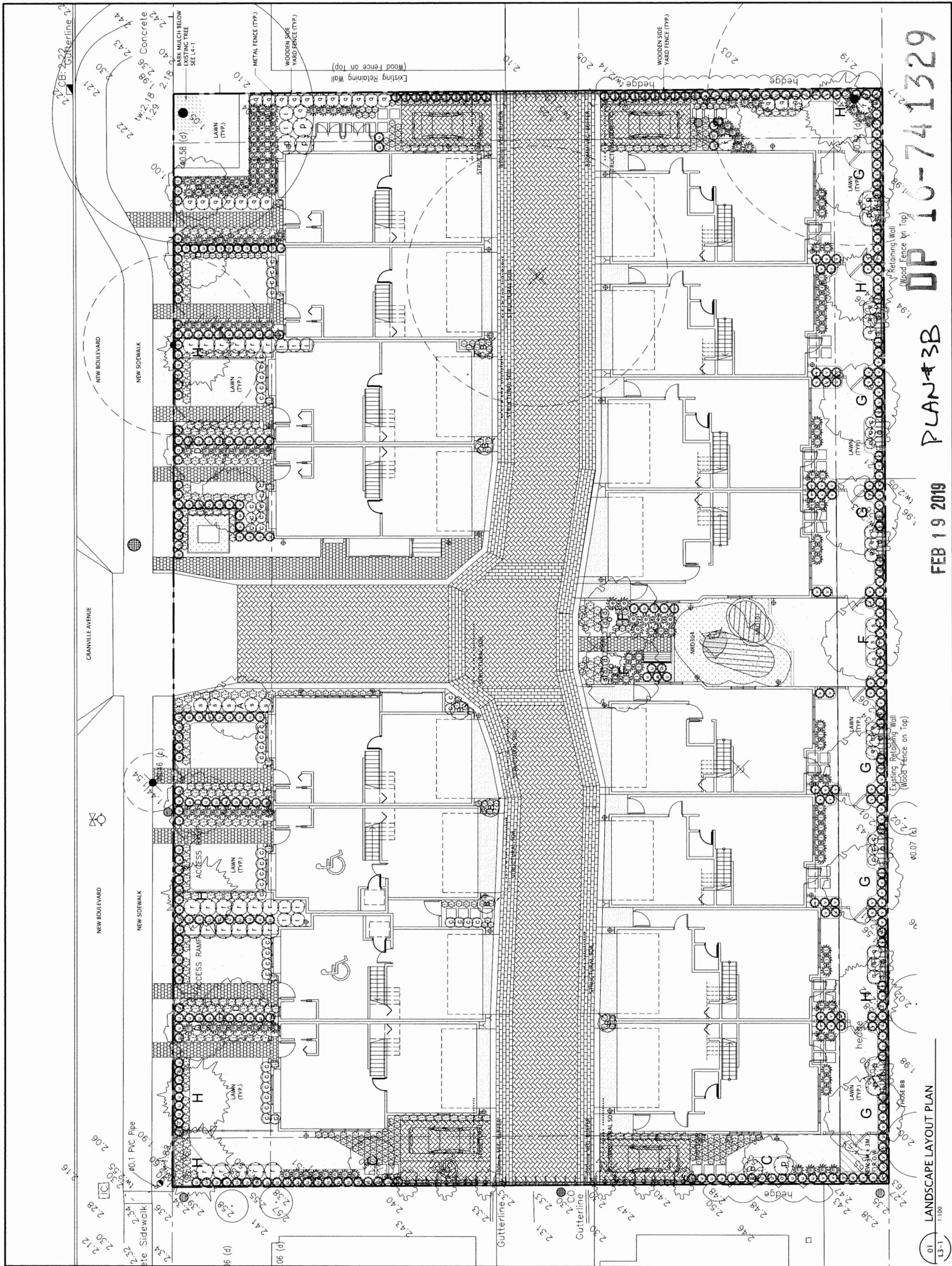
**Donald V. S. Duncan**  
**DEVELOPMENT CONSULTANT**  
**LANDSCAPE ARCHITECT**

603 - 220 Eleventh Street  
 New Westminster B.C.  
 Canada V3M 6N9  
 778-791-4332  
[dvduncan@mail.com](mailto:dvduncan@mail.com)

A  
Project Leader  
D.Duncan  
Drawn by  
D.Duncan  
Revision

**PROPOSED TOWNHOUSE**  
9560 9580 9584 Granville Avenue  
Richmond, British Columbia  
Canada

Check Scale (may be photo reduced)  
0      1 inch      0      10 mm  
Project No.      18-0039  
Drawing No.      [3-]

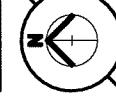


DATE	ISSUED FOR	REV.
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A

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Civil: Eric Law Architect  
Architectural:  
Structural:  
Mechanical:  
Electrical:

Consultants

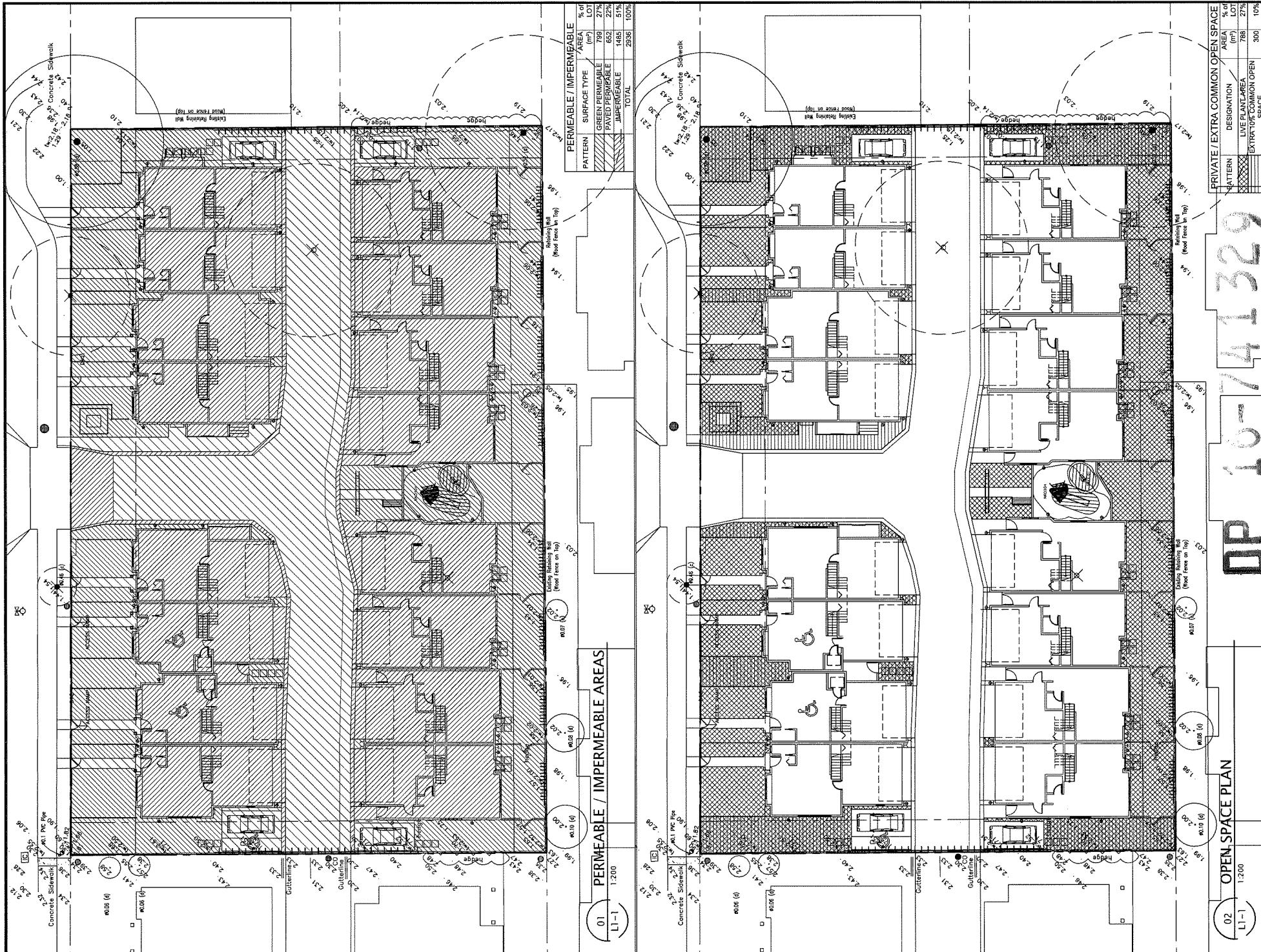
DIV  
SD  
Donald V. S.  
Development Consultant  
Landscape Architect  
603 - 220 Eighth Street  
New Westminster BC  
Canada V3M 6N9  
778-791-4323  
dvduncan@gmail.com

A

Project Leader  
D.Duncan  
Drawn by  
D.Duncan  
Revision

PROPOSED TOWNHOUSE  
9560 9580 84 Granville Avenue  
Richmond, British Columbia  
Canada

Drawing Title  
INFORMATION  
Check Scale (may be photo reduced) 0 10mm  
Project No. 18-0039  
Drawing No. L-1



PLANT LIST			
Quantity	Symbols	Botanical Name	Common Name
2	A	<i>Cornus florida</i> 'Cherokee Chief'	Red Flowering Dogwood
6	B	<i>Plunus sempervirens</i> 'Amanogawa'	Amanogawa Cherry
3	C	<i>Corinus mas</i>	Cornelian Cherry Dogwood
6	D	<i>Sytrax japonica</i>	Japanese Snowball
3	F	<i>Prunus yedoensis</i> 'Akebono'	Akebono Cherry
6	G	<i>Betula jacquemontii</i>	Whitelbarked Himalayan Birch
7	H	<i>Pinus nigra</i>	Austrian Black Pine
49	c	<i>Hamamelis japonica</i> 'Ward's Ruby'	Evergreen Azalea
5	d	<i>Hamamelis japonica</i> 'Diamant Lachs'	Evergreen Azalea
7	e	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Foerster's Reed Grass
250	f	<i>Festuca idahoensis</i>	Idaho Blue Fescue
273	i	<i>Carex morrowii</i> 'Aureo-variegata'	Variegated Sedge
4	k	<i>Polygonatum multiflorum</i>	Western Sword Fern
53	l	<i>Heuchera chionophylla</i>	Blue Oat Grass
68	m	<i>Iris sibirica</i> 'Flight of Butterflies'	Siberian Iris
8	n	<i>Hemerocallis</i> 'Black-eyed Stella'	Daylily
16	o	<i>Clematis armandi</i>	Evergreen Clematis
9	p	<i>Corinus serticea</i>	Redtwig Dogwood
24	q	<i>Rhododendron</i> 'Elizabeth'	Rhododendron
25	r	<i>Rhododendron</i> 'Mary Fleming'	Rhododendron
9	s	<i>Rose medalland</i> 'La Sevillana'	Rose
23	u	<i>Skimmia japonica</i> 'Reevesiana'	Skimmia Fortunei
150	v	<i>Taxus x media</i> 'Hicksii'	Hick's Yew
		<i>Thuja occidentalis</i> 'Smaragd'	Emerald Green Cedar

**OPEN SPACE PLAN**

DESIGNATION	OPEN SPACE
LAWN AREA	788 10%
EXTRA COMMON OPEN SPACE	300 10%

1:200

FEB 19 2019

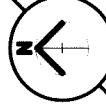
PLAN #3C

DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A

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The original design was prepared by JHL Design Group Inc. who retain copyright of the Concept Detailing provided by Donald V. S. Duncan.  
This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Landscape Architect.

Consultants

Client:  
Architect: Eric Law Architect  
Structural:  
Mechanical:  
Electrical:

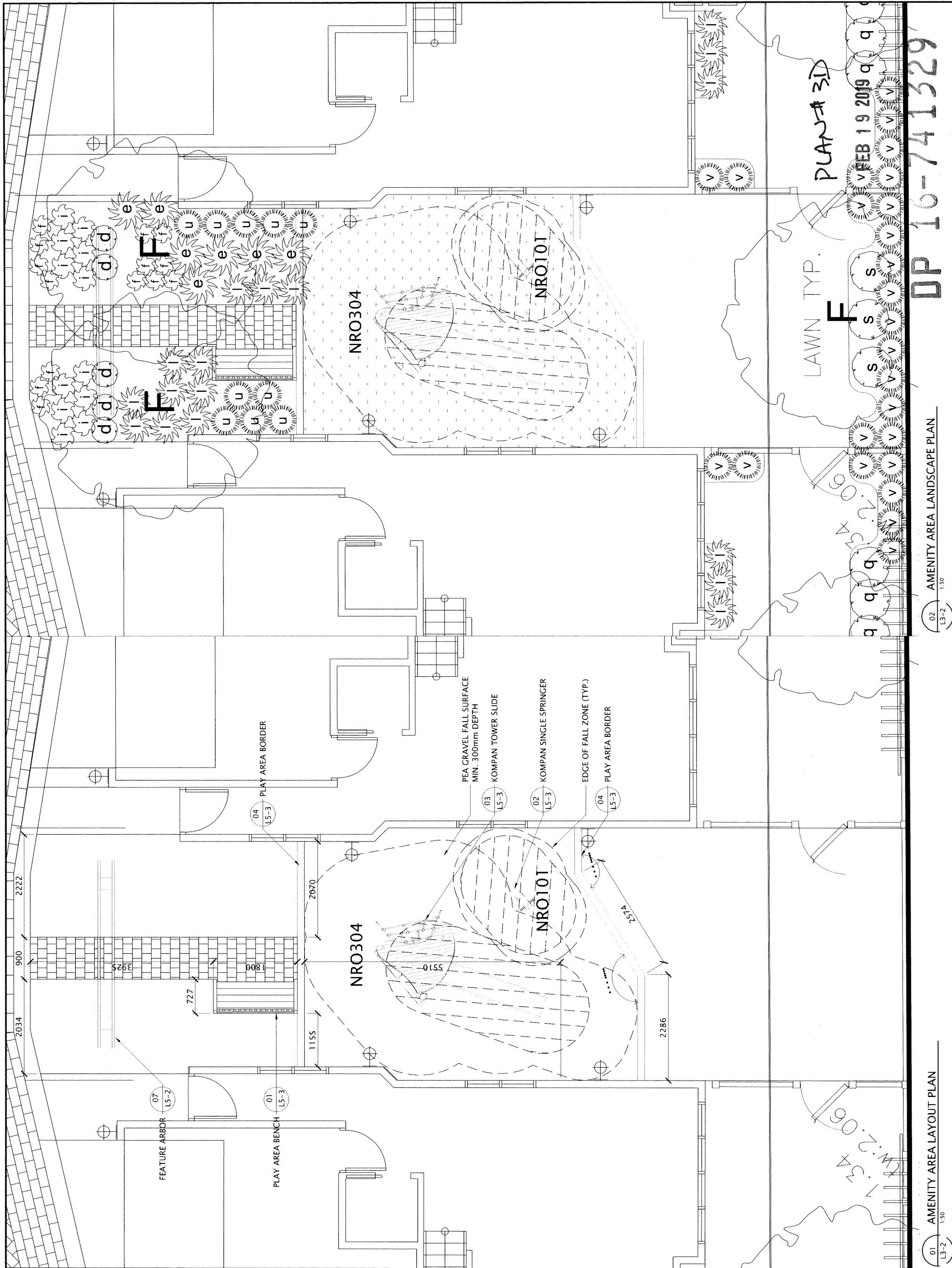


**Donald V. S. Duncan**  
DEVELOPMENT CONSULTANT  
LANDSCAPE ARCHITECT  
603 - 220 Eleventh Street  
New Westminster, BC  
Canada V3M 6N9  
778-791-4323  
dvsduncan@gmail.com

Project Leader  
D. Duncan  
Drawn by  
D. Duncan  
Revision  
A

**PROPOSED TOWNHOUSE**  
9560 9580 9584 Granville Avenue  
Richmond, British Columbia  
Canada  
Drawing title  
**AMENITY AREA**

Check Scale (may be photo reduced)  
0 1inch 0 10mm  
Project No. 18-0039  
Drawing No. L3-2



DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A
2019-02-07	DP RE-SUBMISSION	B

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Consultants

Civil:	
Ecology:	
Architectural:	Eric Law Architect
Structural:	
Mechanical:	
Electrical:	

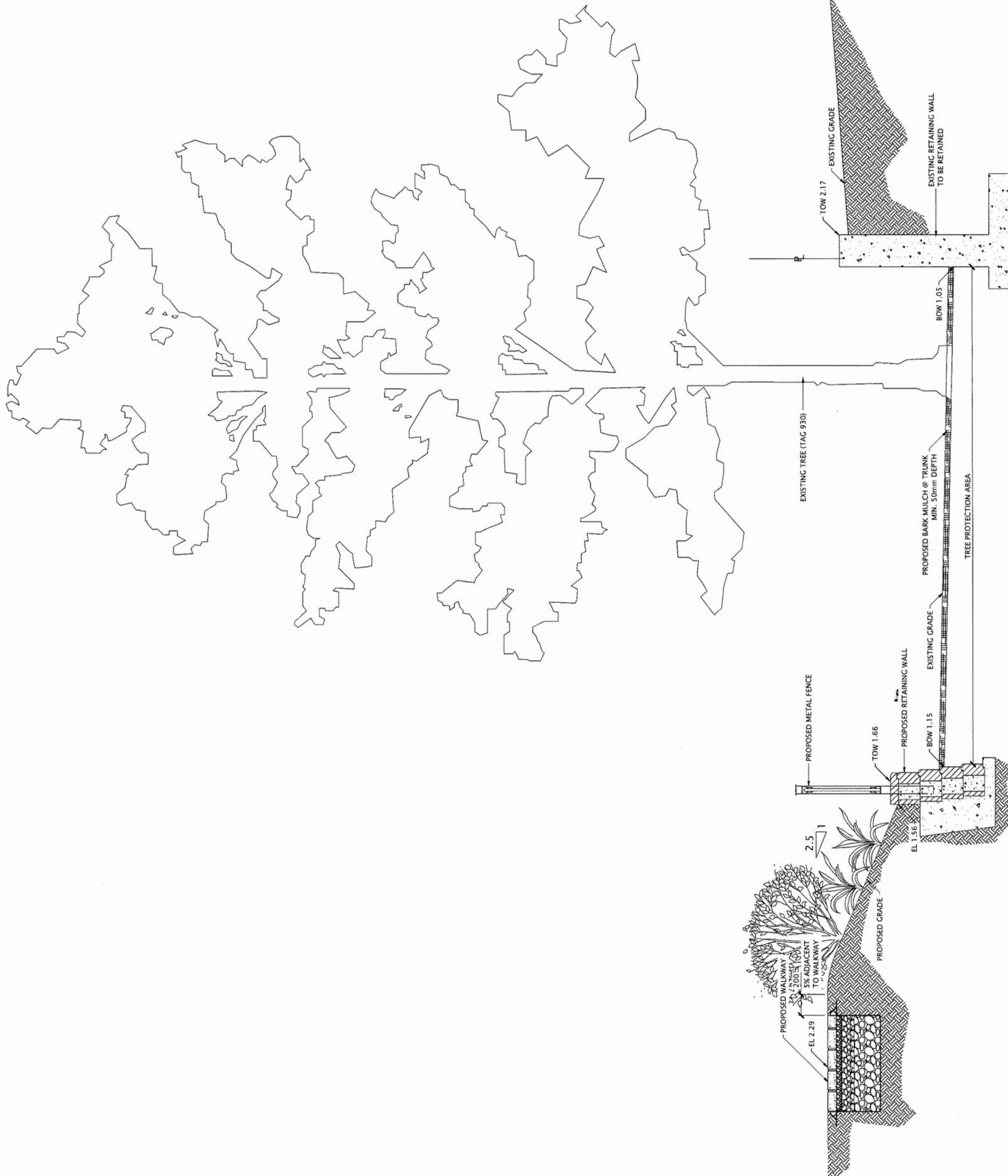


**D V S. DUNCAN**  
DEVELOPMENT CONSULTANT  
LANDSCAPE ARCHITECT  
603 - 2220 Eighth Street  
New Westminster BC  
Canada V3M 6N9  
778-731-4323  
dvduncan@gmail.com

**B**  
Project Leader  
Drawn By  
D.Duncan  
Revision  
Drawing Title  
PROPOSED TOWNHOUSE  
9560 9580 9584 Granville Avenue  
Richmond, British Columbia  
Canada

TREE 930 SECTION  
FEB 19 2019  
PLAN # 3E  
DP 10-741329  
Check Scale (may be photo reduced) 0 10mm  
Project No. 18-0039  
Drawing No. L4-1

SECTION A-A @ PROPERTY LINE (NORTHEAST CORNER)  
1:20  
L4-1

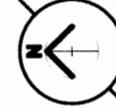


DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A

This drawing has been prepared solely for the use of the CLIENT and there are no representations of any kind made by Donald V. S. Duncan to any party with whom Donald V. S. Duncan has not entered into a contract.

The original design was prepared by HHL Design Group Inc. with team provided by the concept. Detailing was provided by Donald V. S. Duncan.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Landscape Architect.



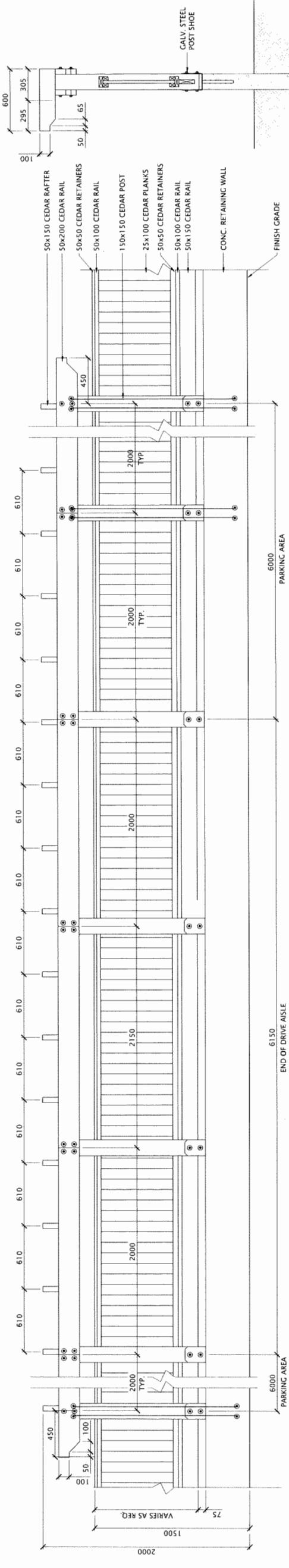
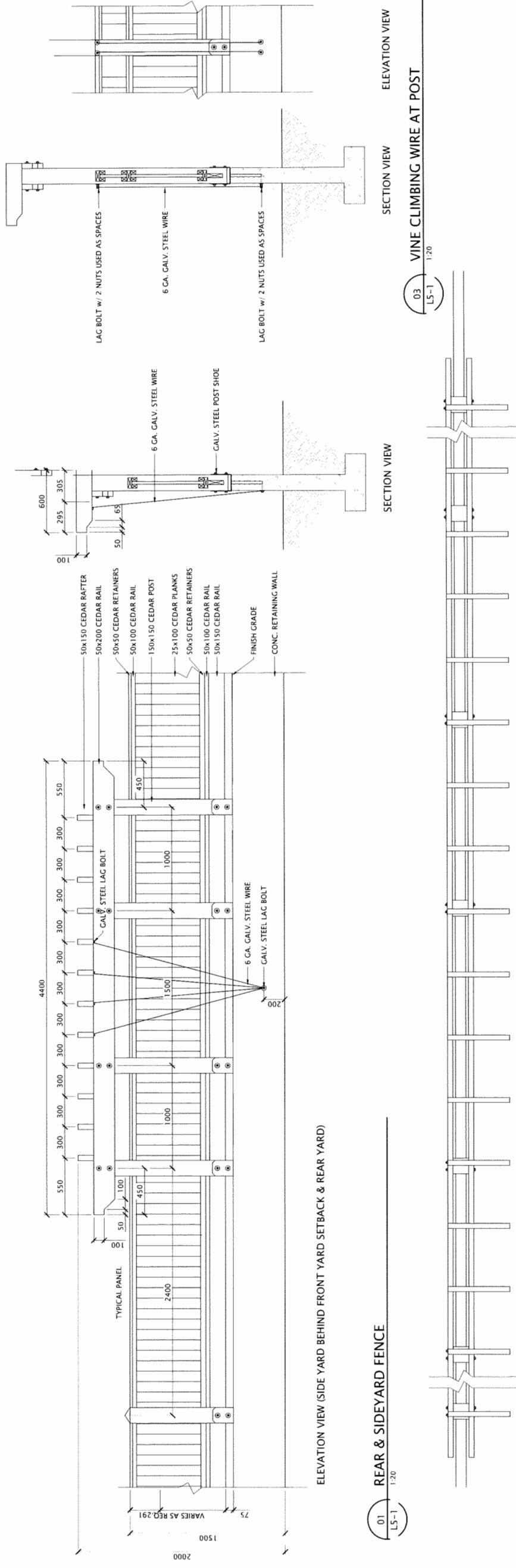
**Donald V. S. Duncan**  
DEVELOPMENT CONSULTANT  
LANDSCAPE ARCHITECT

Project Leader  
D.Duncan

**PROPOSED TOWNHOUSE**  
9560 9580 9584 Granville Avenue  
Richmond, British Columbia

Check Scale (may be photo reduced)  
0      10 mm  
0      1 inch

Project No. 18-0039  
Drawing No. L5-1



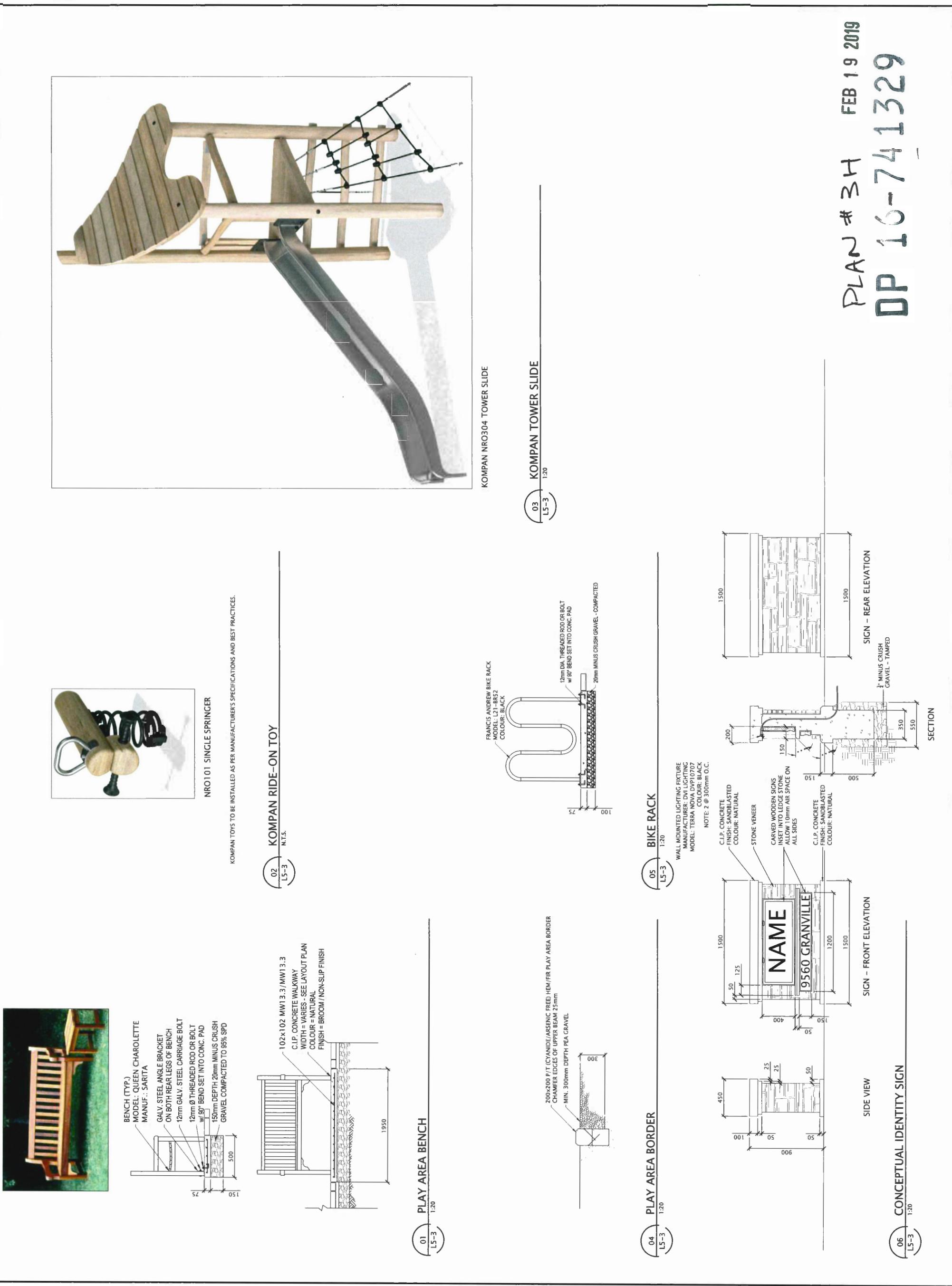
**SECTION VIEW**

**PLAN #3F**

**DP 16-741329**

FEB 19 2019

DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A



DATE	ISSUED FOR	REV
2018-12-06	DP SUBMISSION	0
2019-01-16	DP RE-SUBMISSION	A

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Consultants

Civil:  
Ecology:  
Architectural:  
Structural:  
Mechanical:  
Electrical:

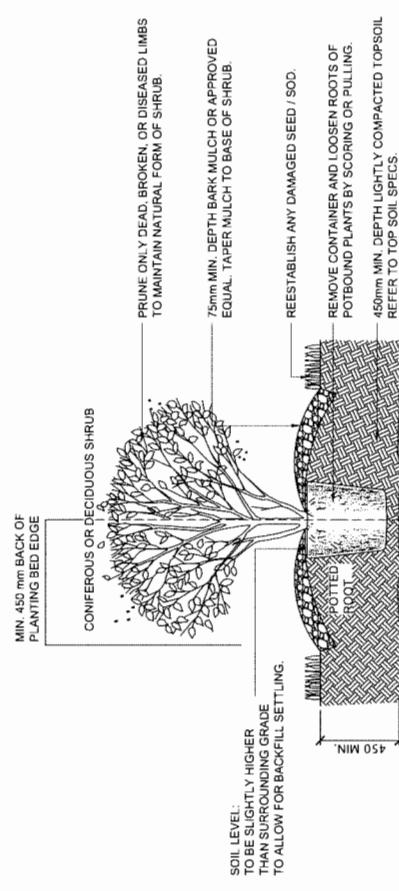
**DV  
SD**  
Donald V. S. Duncan  
DEVELOPMENT CONSULTANT  
LANDSCAPE ARCHITECT  
603 - 220 Eleventh Street  
New Westminster BC  
Canada V3M 1N9  
778-791-4323  
dvsduncan@gmail.com

**A**  
Project Leader  
D. Duncan  
Drawn by  
D. Duncan  
Revision

**PROPOSED TOWNHOUSE**  
9560 9580 9584 Granville Avenue  
Richmond, British Columbia  
Canada  
Drawing Title  
**SOFT LANDSCAPE**

Check Scale may be photo reduced  
0 10mm  
1 inch  
Project No. 18-00329  
Drawing No. L5-4

**PLAN # 31 FEB 19 2019**  
**DP 10-741329**



**01 SHRUB INSTALLATION**  
LS-4

**DETAIL P.L.S.**

**BROADLEAF DECIDUOUS**  
Less than 100mm caliper  
SINGLE LEADER  
(unless multi stem species is specified)

PRUNE ONLY DEAD, BROKEN, OR DISEASED TREE LIMBS TO MAINTAIN NATURAL FORM OF TREE.  
NEW 2 PLY / 12mm, REINFORCED BLACK RUBBER HOSE OR APPROVED POSITIONED APPROX 35 HT. FOR ALL TREES. WIRE DOES NOT GO AROUND TREE.

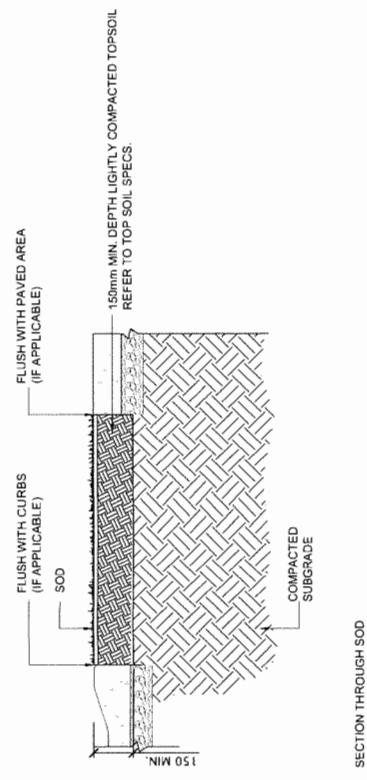
GALVANIZED GLY WIRE, NO. 11 MIN. POSITIONED ABOVE FIRST STRONG BRANCHES.  
USE THREE (3) 50mm X 50mm X 500mm LNG. STUDED HEAVYWEIGHT T-POSTS (7.5 POUND). ALL EXPOSED PORTIONS OF TREE STAKE TO BE FREE INTO UNDISTURBED SOIL WI ONE ON SIDE OF PREVAILING WINDS. STAKES ARE TO BE REMOVED AFTER ONE GROWING SEASON.

75mm MIN. DEPTH BARK MULCH OR APPROVED EQUAL OVER EXPOSED ROOTBALL, TAPER MULCH TO BASE OF TREE. MULCH STARTING 50mm FROM ROOT FLARE (TRUNK) & EXTENDING 50mm FROM SPADE CUT EDGE.

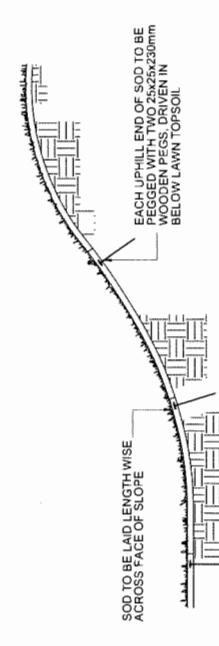
SLOPE TOPSOIL FROM ROOT BALL TO EDGE OF HOLE TO FORM WELL.  
TOPSOIL, REFER TO TOP SOIL Specs.  
IF TREE IS IN IMBRE BASKET, CUT AND REMOVED STRAPPING AND THE HORIZONTAL VERTICAL MRIES OF THE BASKET TO A MIN. DEPTH OF 200mm FROM TOP OF ROOTBALL. PULL BACK BURLAP TO MIN. DEPTH.  
SCARIFY WALL OF TREE WELL.  
400mm COMPACTED LOAM BELOW ROOT BALL.  
UNDISTURBED NATIVE SOIL  
3X ROOT BALL DIAMETER

**02 TREE INSTALLATION**  
LS-4

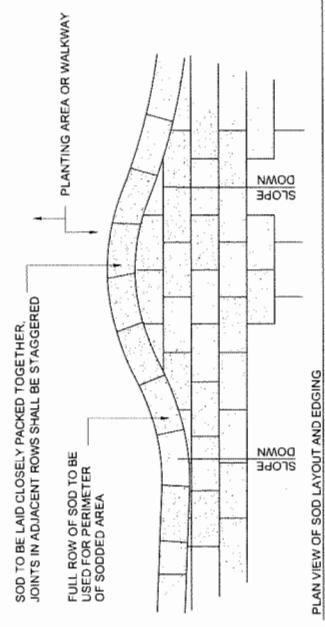
TAMP TOP SOIL AROUND ROOT BALL  
BASE IF Tightly WITH FOOT PRESSURE  
SO THAT ROOT BALL DOES NOT SHIFT.  
DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING



**SECTION THROUGH SOD**

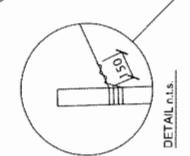


**CROSS SECTION OF 3H:1V SLOPE**



**PLAN VIEW OF SOD LAYOUT AND EDGING**

**03 LAWN INSTALLATION**  
LS-4  
NOT TO SCALE

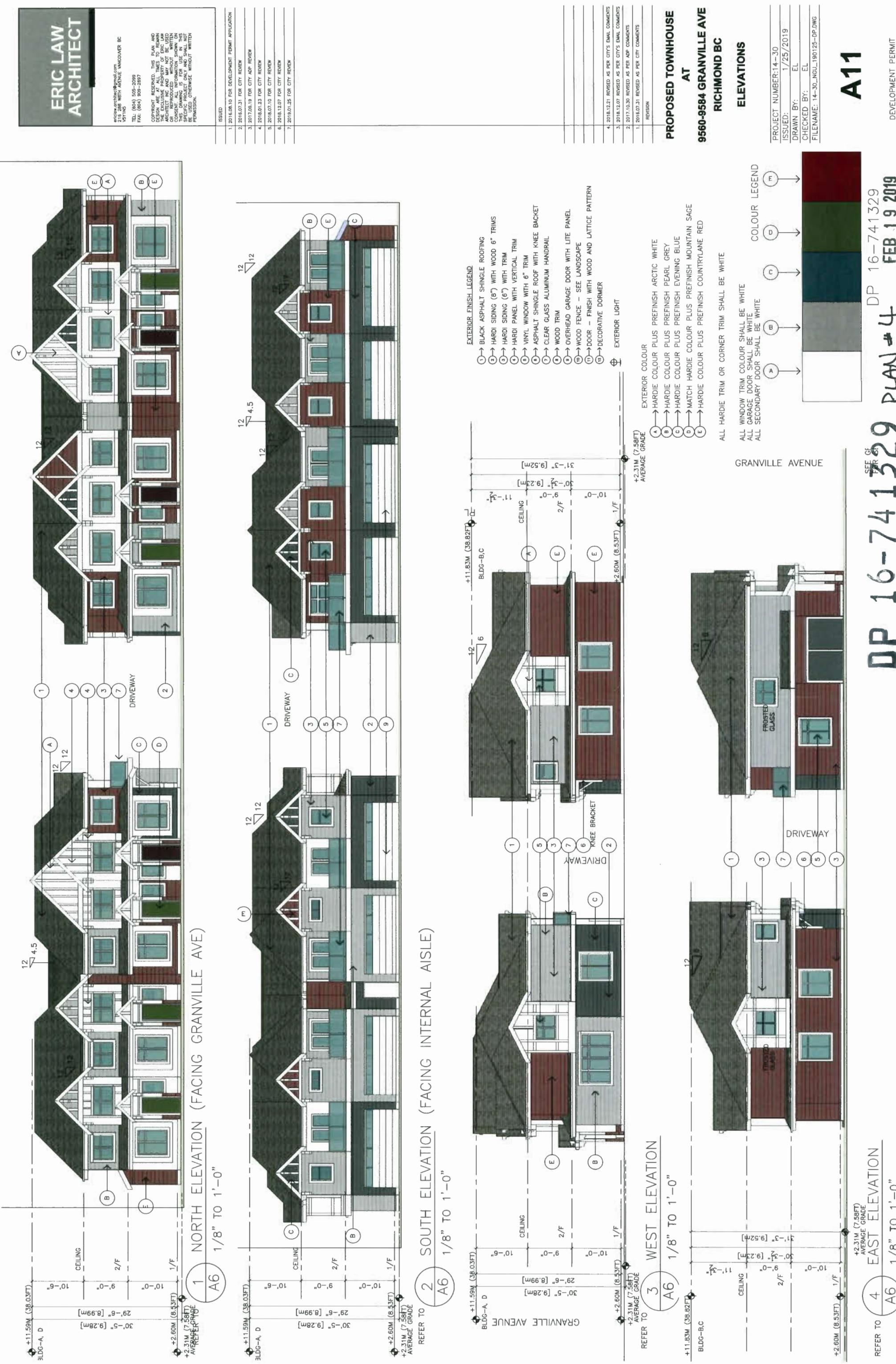


**STAKING PLAN P.L.S.**  
(optional)

**LS-4**

**N.T.S.**

Check Scale may be photo reduced  
0 10mm  
1 inch  
Project No. 18-00329  
Drawing No. L5-4

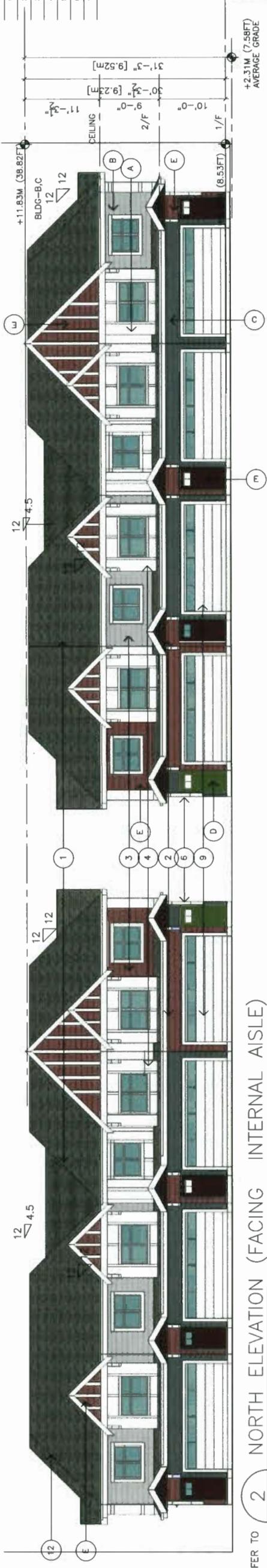
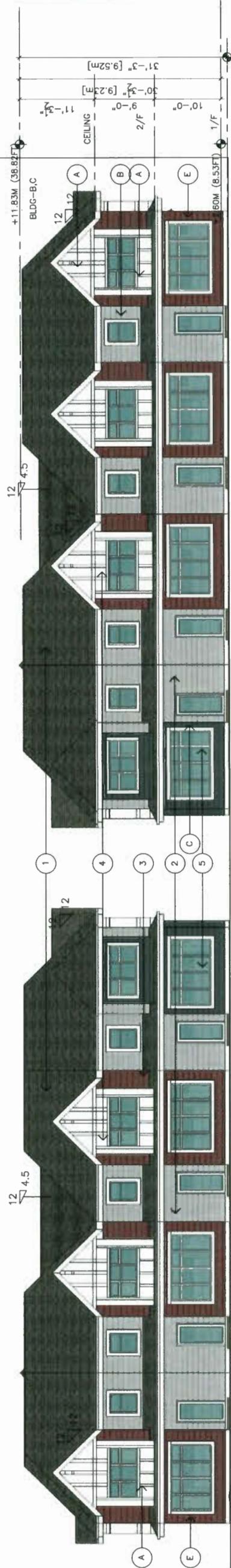


**ERIC LAW  
ARCHITECT**

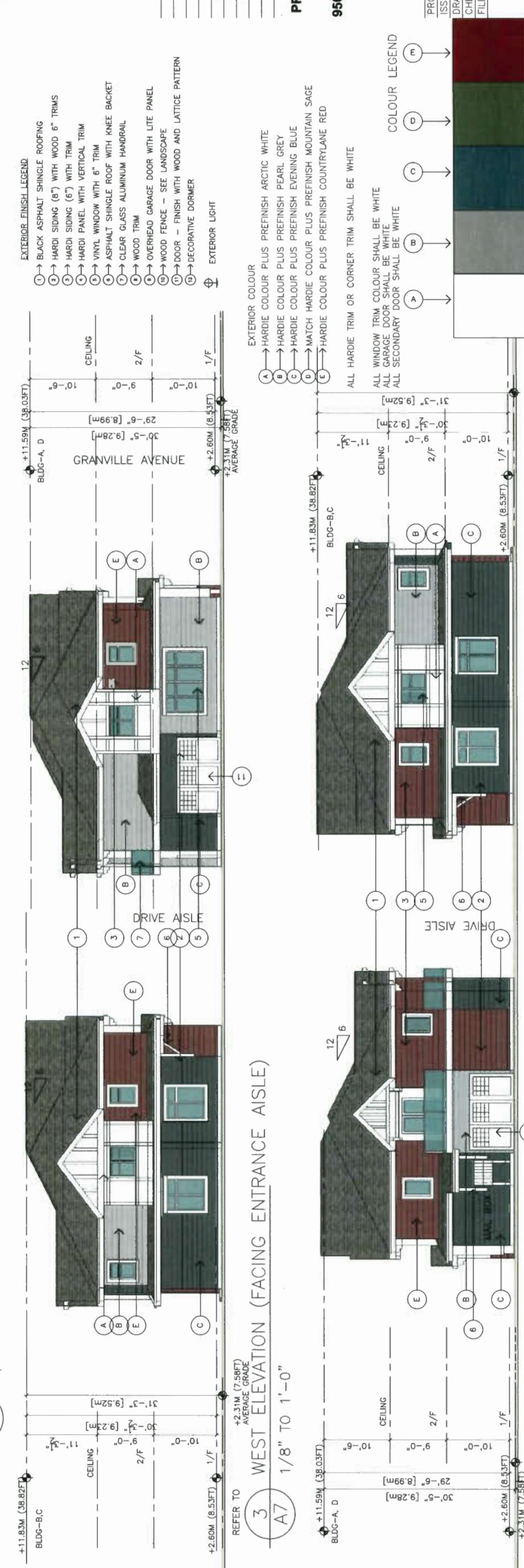
ericlawarchitect@gmail.com  
VINS  
TEL: (604) 525-2059  
FAX: (604) 509-2697

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ISSUED  
1. 2016.08.10 FOR DEVELOPMENT PERMIT APPLICATION  
2. 2016.07.31 FOR CITY REVIEW  
3. 2017.08.18 FOR CITY AOP REVIEW  
4. 2016.07.23 FOR CITY REVIEW  
5. 2016.09.10 FOR CITY REVIEW  
6. 2016.12.07 FOR CITY REVIEW  
7. 2016.09.15 FOR CITY REVIEW



INTERNAL AISLE)



PLAN #4A

DP 16-741329 PLAN #4A

**A12**

FEB 19 2019

DEVELOPMENT PERMIT



ELEVATIONS

PROJECT NUMBER: 14-30  
ISSUED: 1/25/2019  
DRAWN BY: EL  
CHECKED BY: EL  
FILENAME: 14-30\_NGU\_190125-DF-DWG

PLAN #4A

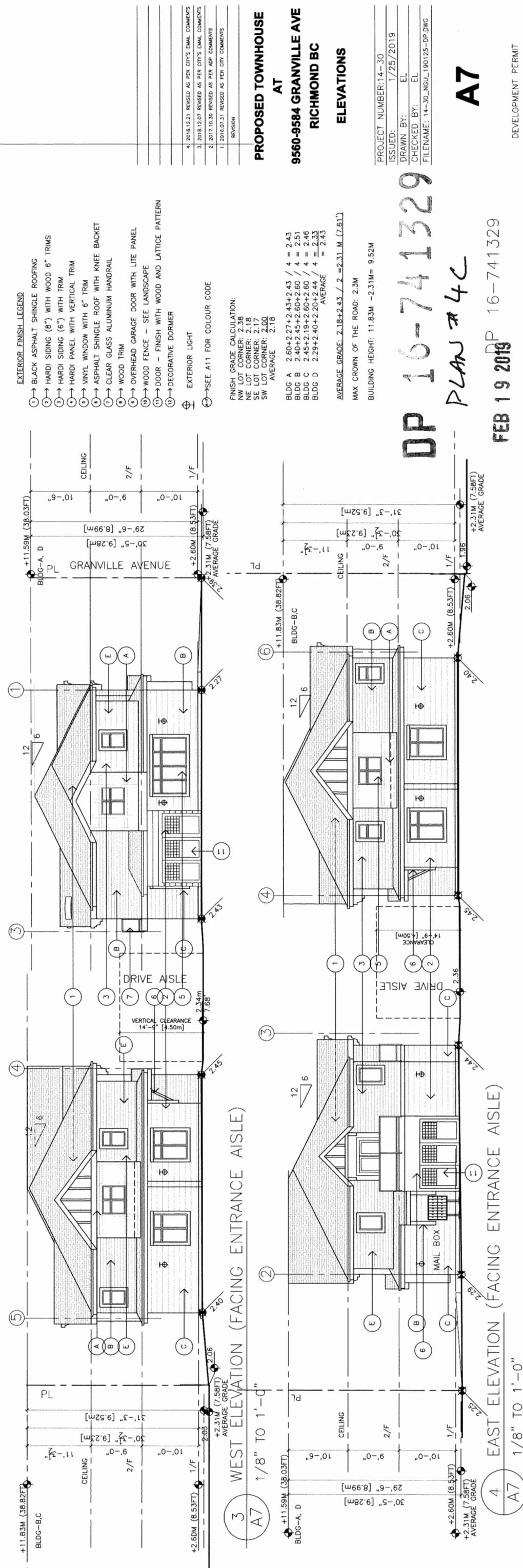
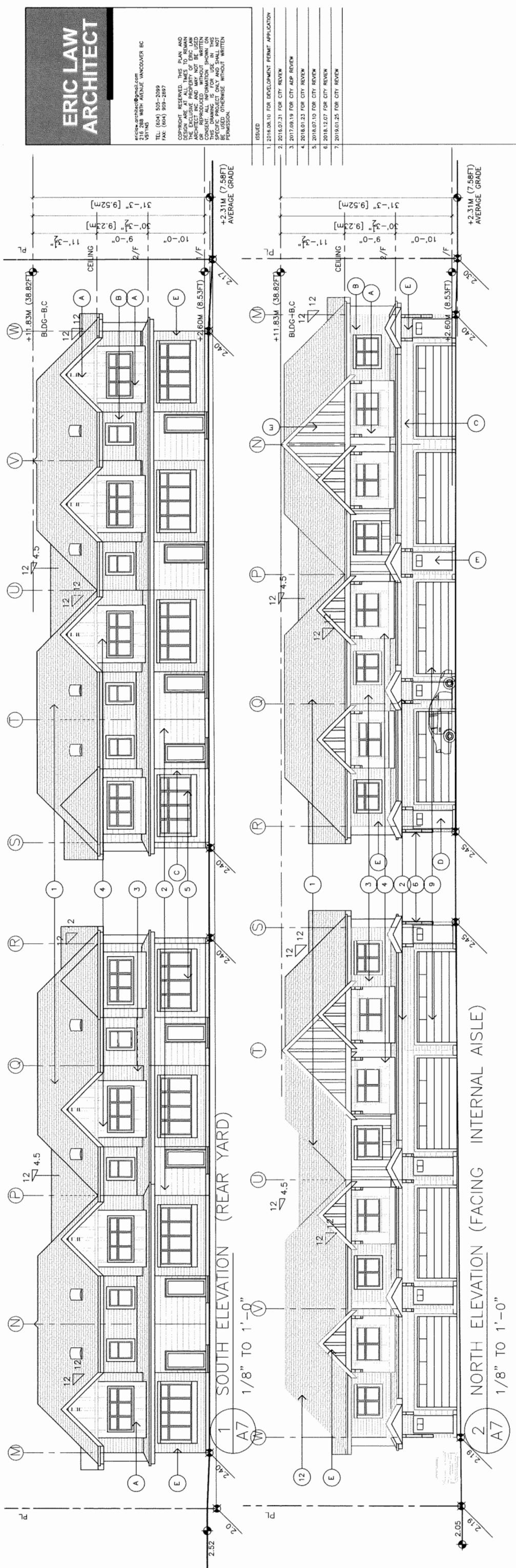
DP 16-741329 FEB 19 2019

DEVELOPMENT PERMIT

**ERIC LAW  
ARCHITECT**

eric.law.architect@gmail.com  
1688 8th Avenue Vancouver BC  
V6H 2S9  
TEL: (604) 505-2699  
FAX: (604) 509-2697

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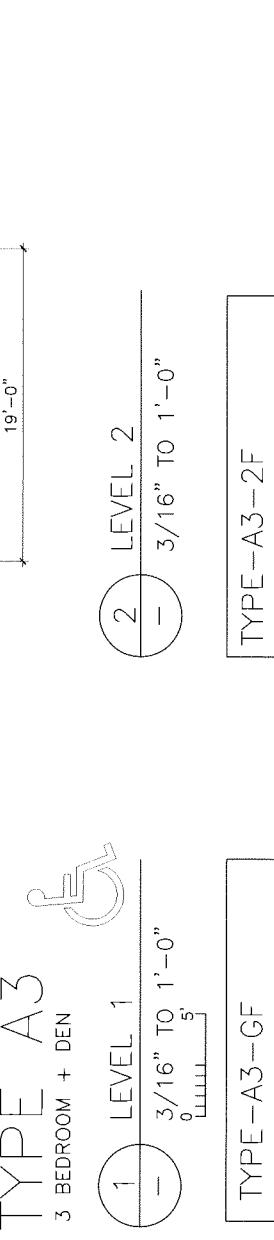
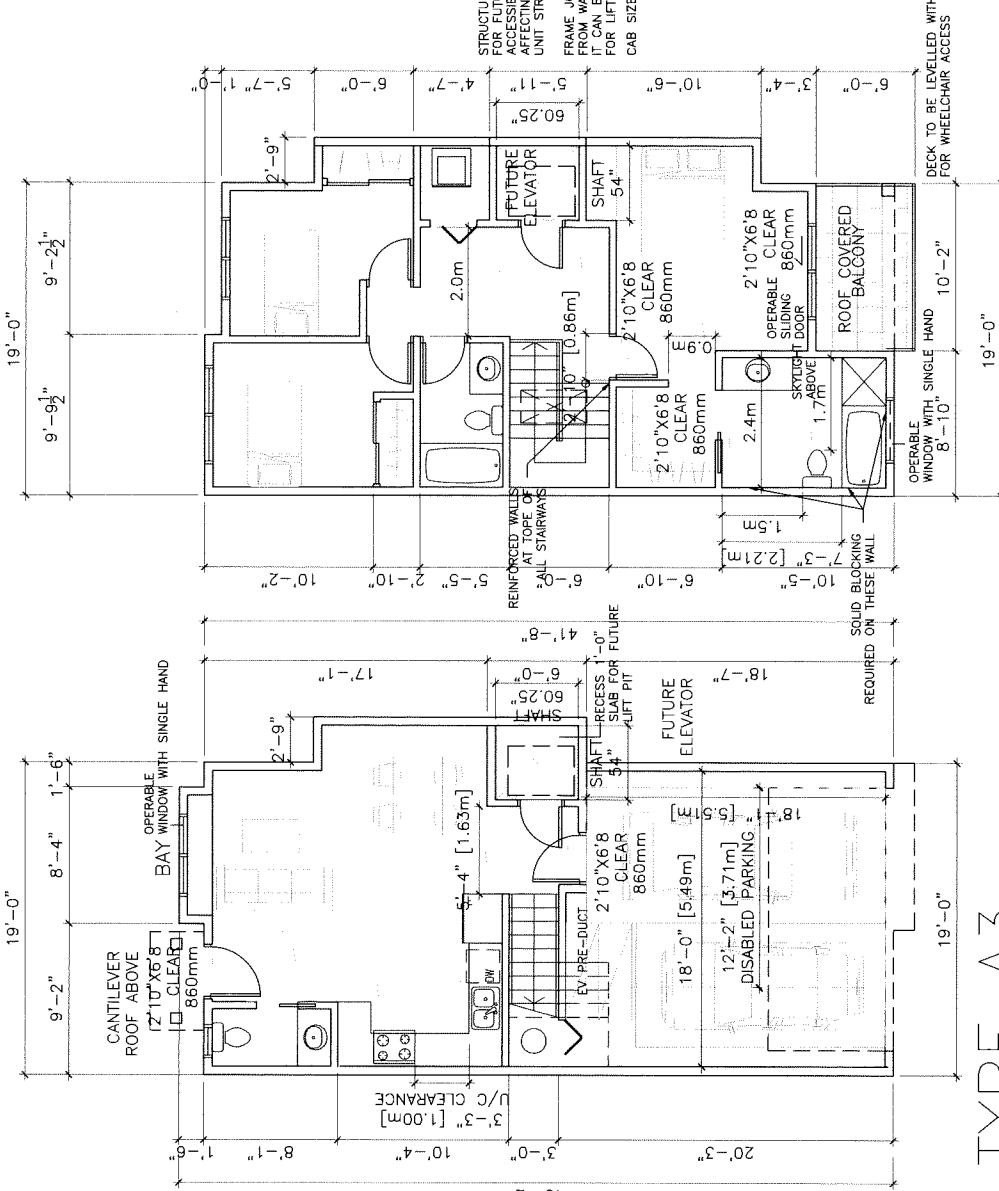
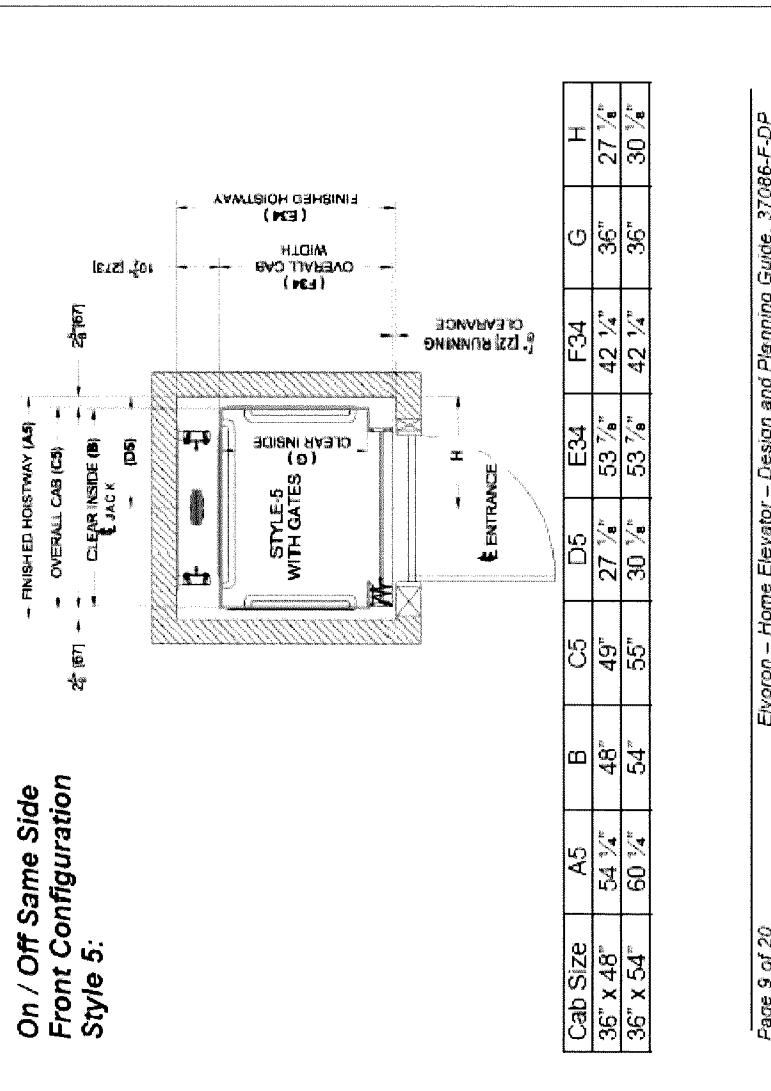
**A7**

**DP 16-741329**  
**PLAN #4C**

**FEB 19 2019**  
**DP 16-741329**

ISSUED  
1. 2011-08-10 FOR DEVELOPMENT PERMIT APPLICATION  
2. 2011-07-31 FOR CITY REVIEW  
3. 2011-08-19 FOR CITY ADP REVIEW  
4. 2011-08-23 FOR CITY REVIEW  
5. 2011-09-10 FOR CITY REVIEW  
6. 2011-09-17 FOR CITY REVIEW  
7. 2011-09-25 FOR CITY REVIEW

CONVERTIBLE UNIT GUIDELINES	
DOORS & DOORWAYS	<ul style="list-style-type: none"> <li>- ENTRY DOORS ARE A MINIMUM 865 MM BUT IDEALLY 914 MM AND HAVE CLEAR ACCESS.</li> <li>- LATCH SIDE (NOT NEEDED IF ROUGH IN WIRING PROVIDED FOR FUTURE AUTOMATIC DOOR OPENER).</li> <li>- INTERIOR DOORS TO MAIN LIVING AREAS, 1 BATHROOM AND 1 BEDROOM, MIN. 800 MM CLEAR OPENING WITH FLUSH THRESHOLD MAX. 13 MM HEIGHT. DEMONSTRATE WHEELCHAIR ACCESS BETWEEN THE HALLWAY AND ROOMS AND WIDEN HALLWAY AND/OR DOORWAY(S) IF NECESSARY TO SECURE ACCESS.</li> <li>- PATIO/BALCONY MIN. 860 MM CLEAR OPENING. NOTE HOW ACCESSED. - ALL INTERIOR THRESHOLDS WITHIN UNITS COMPLY WITH BC BUILDING CODE.</li> <li>- LEVER-TYPE HANDLES FOR ALL DOORS.</li> </ul>
VERTICAL CIRCULATION	<ul style="list-style-type: none"> <li>- STAR LIFT, STAIRCASE WIDTH, FRAMING SUPPORT, AND LANDINGS, AS NOTED ON FLOOR PLANS IN COMPLIANCE WITH MANUFACTURER SPECIFICATIONS.</li> <li>- DEPRESSED SLAB AREA, AND LANDINGS, AS NOTED ON FLOOR PLANS IN COMPLIANCE WITH MANUFACTURER SPECIFICATIONS, FRAMING TO ACCOMMODATE SHAFT CONSTRUCTION WITHOUT IMPACT TO SURROUNDING STRUCTURE.</li> <li>- AT THE TOP OF ALL STAIRWAYS, WALLS ARE REINFORCED WITH 2" X 12" SOLID LUMBER AT 914 MM TO CENTRE.</li> </ul>
HALWAYS	<ul style="list-style-type: none"> <li>- MIN. 900 MM WIDTH.</li> </ul>
GARAGE	<ul style="list-style-type: none"> <li>- MIN. 1 ACCESSIBLE PARKING SPACE WITH MIN. 4 M GARAGE WIDTH</li> <li>- ACCESS FROM GARAGE TO LIVING AREA MIN. 800 MM CLEAR OPENING.</li> </ul>
BATHROOM (MIN. 1)	<ul style="list-style-type: none"> <li>- TOILET CLEAR FLOOR SPACE MIN. 1020 MM AT SIDE, AND IN FRONT, WALL BLOCKING FOR FUTURE GRAB BAR INSTALLATION AT TOILET, TUB AND SHOWER. REINFORCED WITH 2" X 12" SOLID LUMBER IN ALL BATHROOM, SHOWER, AND TOILET LOCATIONS.</li> <li>- LEVER-TYPE HANDLES FOR PLUMBING FIXTURES.</li> <li>- PRESSURE AND TEMPERATURE CONTROL VALVES ARE INSTALLED ON ALL BATH AND SHOWER CONTROLS.</li> <li>- CABINETS UNDERNEATH SINKS ARE EASILY REMOVED. DEMONSTRATE BATH AND SHOWER CONTROLS ARE ACCESSIBLE (LAYOUT OR FIXTURE PLACEMENT).</li> </ul>
KITCHEN	<ul style="list-style-type: none"> <li>- CLEAR AREA NEEDED UNDER FUTURE WORK SPACE</li> <li>- PLUMBING AND GAS PIPES (IN-WALL AND IN-FLOOR), LOCATED CLEAR OF UNDER COUNTER AREA OF FUTURE WORK SPACE (STOVE, SINK &amp; MIN. 810 MM WIDE COUNTER). ALL PIPES ARE BROUGHT IN NO HIGHER THAN 304 MM TO 355 MM TO THE CENTRE OF THE PIPE FROM FLOOR LEVEL. - CABINETS UNDERNEATH SINK ARE EASILY REMOVED.</li> <li>- 1500 MM TURNING DIAMETER OR TURNING PATH DIAGRAM.</li> <li>- LEVER-TYPE HANDLES FOR PLUMBING FIXTURES.</li> </ul>
WINDOWS	<ul style="list-style-type: none"> <li>- MIN. 1 WINDOW THAT CAN BE OPENED WITH A SINGLE HAND (BATHROOM, KITCHEN, LIVING ROOM)</li> <li>- PLACEMENT LOCATIONS OF ELECTRICAL OUTLETS: BESIDE WINDOW, BOTTOM OF STAIRWAYS, BESIDE TOILET, ABOVE EXTERNAL DOORS (OUTSIDE AND INSIDE), ON FRONT FACE OF KITCHEN COUNTER, WITHIN PROXIMITY OF CONTROL CENTRE FOR SMART HOME OPTIONS.</li> <li>- UPGRADE TO FOUR-PLEX OUTLETS IN MASTER BEDROOM, HOME OFFICE, GARAGE, AND RECREATION ROOM.</li> </ul>
OUTLETS & SWITCHES	



TOTAL UNIT AREA: ±1291 SQ. FT.  
INCLUDING STAIR

**PROPOSED TOWNHOUSE AT**  
**9560-9584 GRANVILLE AVE**  
**RICHMOND BC**  
**UNIT PLANS**

PROJECT NUMBER: 14-30  
ISSUED: 1/25/2019  
DRAWN BY: EL  
CHECKED BY: EL  
FILENAME: 14-30-NSU-90125-DP.DWG

**DP 16-741329 A10**

**FEB 19 2019**  
**REFERENCE PLAN**

Page 9 of 20

Elvaron – Home Elevator – Design and Planning Guide, 37086-E-DP