

City of Surrey PLANNING & DEVELOPMENT REPORT File: 7913-0286-00

Planning Report Date: March 31, 2014

PROPOSAL:

- NCP Amendment from "Townhouses 15 upa" to "Townhouses 30 upa" and "Open Space"
- **Rezoning** from RA to RM-30
- Development Permit
- Development Variance Permit

in order to permit the development of 67 townhouse units.

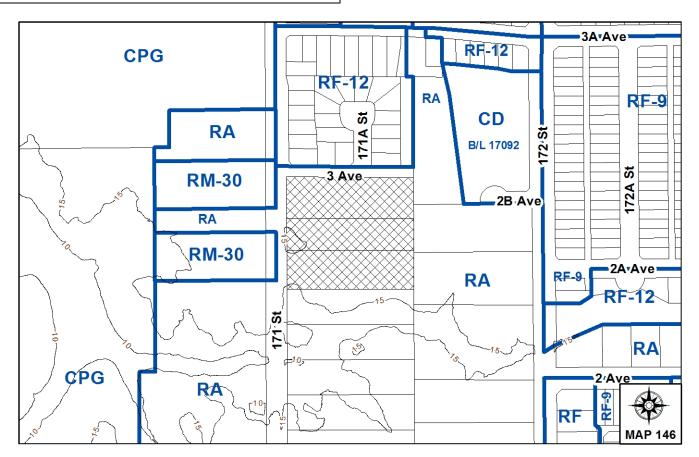
LOCATION: 276, 260 and 246 - 171 Street

OWNERS: Sandra M Carpenter

Robert W Byers Sandra J Byers Joseph R Connolly

ZONING: RA
OCP DESIGNATION: Urban

NCP DESIGNATION: Townhouses 15 upa



RECOMMENDATION SUMMARY

- By-law Introduction and set date for Public Hearing for:
 - o Rezoning
- Approval to reduce indoor amenity space.
- Approval to draft Development Permit.
- Approval for Development Variance Permit to proceed to Public Notification.

DEVIATION FROM PLANS, POLICIES OR REGULATIONS

- An amendment to the Douglas Neighbourhood Concept Plan (NCP) is required to amend the land use designation from "Townhouse 15 upa" to "Townhouse 30 upa" and "Open Space".
- Relaxations to the RM-30 Zone are sought to permit:
 - o reduced setbacks along all lot lines;
 - o an unenclosed tandem parking space for each of the units with tandem parking; and
 - o one (1) visitor parking within the south side yard setback.

RATIONALE OF RECOMMENDATION

- The proposed NCP amendment and proposed townhouse density is generally consistent with other townhouse projects approved in the Douglas NCP area.
- The applicant has agreed to convey 1,000 square metres (10,764 sq. ft.) of land to the City, without compensation, for riparian protection and to enhance this area with native riparian planting, via a P-15 agreement.
- The applicant is proposing to build 29 2-bedroom townhouse units averaging 1,265 sq. ft. in size. This is a new product type in the Douglas area, which would add to the housing diversity and housing affordability in the neighbourhood.
- The applicant has consolidated all three (3) properties on the east side of 171 Street between 3 Avenue to the north and the neighbourhood park to the south. Therefore, the applicant is able to plan for a comprehensively designed townhouse project, which takes into consideration its neighbourhood context adjacent to streets and parkland.
- The proposed indoor amenity space shortfall is supportable given that the space provided is functional, and that the remaining shortfall will be addressed through a cash-in-lieu contribution in accordance with City policy.
- The proposed setback relaxations are supportable given that they are consistent with adjacent townhouse projects and that they allow for a desirable streetscape and interface with existing and proposed parkland.

RECOMMENDATION

The Planning & Development Department recommends that:

- 1. a By-law be introduced to rezone the subject site from "One-Acre Residential Zone (RA)" (By-law No. 12000) to "Multiple Residential 30 Zone (RM-30)" (By-law No. 12000) and a date be set for Public Hearing.
- 2. Council approve the applicant's request to reduce the amount of required indoor amenity space from 201 square metres (2,164 square feet) to 58.5 square metres (629 square feet).
- 3. Council authorize staff to draft Development Permit No. 7913-0286-00 generally in accordance with the attached drawings (Appendix II).
- 4. Council approve Development Variance Permit No. 7913-0286-00 (Appendix VII) varying the following provisions of the RM-30 Zone, to proceed to Public Notification:
 - (a) to reduce the minimum front (west) yard setback from 7.5 metres (25 ft.) to 4.68 metres (15 ft.) fronting 171 Street and 3.0 metres (10 ft.) fronting City parkland;
 - (b) to reduce the minimum rear (east) yard setback from 7.5 metres (25 ft.) to 5.0 metres (16 ft.);
 - (c) to reduce the minimum side (north) yard setback from 7.5 metres (25 ft.) to 4.5 metres (15 ft.);
 - (d) to reduce the minimum side (south) yard setback from 7.5 metres (25 ft.) to 5.0 metres (16 ft.) for proposed Building Nos. 8 and 9 and 4.0 metres (13 ft.) for proposed Building 10;
 - (e) to vary the parking requirements to allow one (1) visitor parking space within the side (south) yard setback; and
 - (f) to vary the tandem parking requirements to allow one (1) tandem parking space to be unenclosed for each of the 44 units with tandem parking.
- 5. Council instruct staff to resolve the following issues prior to final adoption:
 - (a) ensure that all engineering requirements and issues including restrictive covenants, dedications, and rights-of-way where necessary, are addressed to the satisfaction of the General Manager, Engineering;
 - (b) submission of a subdivision layout to the satisfaction of the Approving Officer;
 - (c) approval from the Ministry of Transportation & Infrastructure;
 - (d) approval from the Ministry of the Environment;
 - (e) submission of a finalized tree survey and a statement regarding tree preservation to the satisfaction of the City Landscape Architect;

(f) submission of a landscaping plan and landscaping cost estimate to the specifications and satisfaction of the Planning and Development Department;

- (g) resolution of all urban design issues to the satisfaction of the Planning and Development Department;
- (h) demolition of existing buildings and structures to the satisfaction of the Planning and Development Department;
- (i) 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;
- (j) registration of a P-15 license agreement for riparian enhancement works and monitoring and maintenance on dedicated land;
- (k) the applicant satisfy the deficiency in tree replacement on the site, to the satisfaction of the Planning and Development Department; and
- (l) the applicant adequately address the impact of reduced indoor amenity space.
- 6. Council pass a resolution to amend Douglas NCP to redesignate the land from "Townhouses 15 upa" to "Townhouses 30 upa" and "Open Space" when the project is considered for final adoption.

REFERRALS

Engineering: The Engineering Department has no objection to the project

[subject to the completion of Engineering servicing requirements]

as outlined in Appendix III.

School District: **Projected number of students from this development:**

14 Elementary students at Hall's Prairie Elementary School 7 Secondary students at Earl Marriott Secondary School

The applicant has advised that the dwelling units in this project are expected to be constructed and ready for occupancy by January 2016.

(Appendix IV)

Parks, Recreation &

Culture:

Parks has no objection to the project. A P-15 agreement is required for monitoring and maintenance of replantings in the conveyed

riparian area, and the units adjacent to parkland should

incorporate CPTED design principles.

Department of Fisheries

and Oceans (DFO):

No concerns. The Department of Fisheries and Oceans has confirmed that the proposal has been identified as a project where a *Fisheries Act* authorization is not required given that serious harm to fish can be avoided by following standard measures.

Ministry of Transportation & Infrastructure (MOTI):

Preliminary approval is granted for the rezoning for one year pursuant to section 52(3)(a) of the *Transportation Act*.

Surrey Fire Department:

No concerns.

Ministry of Environment

(MOE):

The applicant has made an application to the Ministry of

Environment for approval under Section 9 of the Water Act. Water

Act approval is required prior to final adoption.

SITE CHARACTERISTICS

<u>Existing Land Use:</u> Single family homes on large lots.

Adjacent Area:

Direction	Existing Use	OCP/NCP Designation	Existing Zone
North (Across 3 Avenue):	Small lot single family	Urban/Single Family Residential Flex (6-14.5 upa)	RF-12
East:	Parkland and large lot single family	Urban/Open Space and Townhouses 15 upa	RA
South:	Parkland	Urban/Open Space	RA
West (Across 171 Street):	Townhouses under Building Permit application and under construction and large lot single family	Urban/Townhouses 15 upa, Townhouses 20 upa, and Townhouses 30 upa	RA and RM-30

JUSTIFICATION FOR PLAN AMENDMENT

• The Douglas Neighbourhood Concept Plan (NCP) identifies the three (3) subject properties as "Townhouses 15 upa". The applicant proposes to amend the Douglas NCP to change the land use designation from "Townhouses 15 upa" to "Townhouses 30 upa" in order to permit a townhouse project with a density of 25 upa and an FAR of 0.87.

• The proposed NCP amendment and proposed townhouse density at 25 upa is generally consistent with other townhouse projects approved in the Douglas NCP area. These projects include:

- o The townhouse portion of Development Application No. 7906-0001-00, located to the east of the subject site on 172 Street. The unit density approved for this townhouse development is 23 upa, and the FAR is 1.03;
- O Development Application No. 7912-0055-00, located across the street from the subject site, on the west side of 171 Street. The unit density approved for this townhouse development is 22 upa, and the FAR is 0.85; and
- O Development Application No. 7912-0283-00, also located across the street from the subject site, on the west side of 171 Street. The unit density approved for this townhouse development is 18 upa, and the FAR is 0.74.
- The applicant has agreed to dedicate 1,000 square metres (10,764 sq. ft.) of land to the City, without compensation, for riparian protection. This area is also proposed to be enhanced by re-constructing an existing unnamed Class B watercourse with a new stream within this area, which will connect with the existing watercourse on City parkland to the south of the site. In doing so, a large portion of the watercourse will be day-lighted where it was previously enclosed by a concrete pipe. Further, the land surrounding the channel will be planted with native vegetation, as illustrated in the riparian planting plan attached as Appendix VIII. The riparian land proposed to be conveyed to the City would be re-designated to "Open Space" when the project is considered for Final Adoption.
- If the riparian area was included in the density calculation, the project would have a unit density of 23 upa and an FAR of 0.79. This is within the same range as the neighbouring townhouse projects, as discussed above.
- While 3 Avenue ends at 171A Street, staff requested that the applicant provide an 8.5 metre (28 ft.) wide dedication along the entire north property line. This dedication has been requested is in order to facilitate a sidewalk/pathway connection to the existing and future parkland and trail system to the east of the site. If this additional road dedication area was included in the density calculation, the project would have a unit density of 22.3 upa and an FAR of 0.77.
- The proposal includes a number of small 2-bedroom units, including 24 units with a total floor area of 117 square metres (1,260 sq. ft.), and 5 units with a total floor area of 120 square metres (1,290 sq. ft.). Having a higher number of smaller townhouse units increases the proposed unit density. However, this is a new product type in the Douglas area and therefore the proposal would increase the range of housing choices and provide a more affordable housing option in this area.
- The applicant has consolidated all three (3) properties on the east side of 171 Street between 3 Avenue to the north and the neighbourhood park to the south. Therefore, the applicant is able to plan for a comprehensively designed townhouse project which takes into consideration its neighbourhood context adjacent to streets and parkland.

DEVELOPMENT CONSIDERATIONS

Background

• The subject site is designated "Urban" in the Official Community Plan (OCP) and "Townhouses 15 upa" in the Douglas NCP. The site is comprised of three (3) properties zoned One-Acre Residential

Zone (RA), on the east side of 171 Street south of 3 Avenue. The gross site area is 1.287 hectares (3.18 acres).

- The applicant, Dawson & Sawyer Developments Ltd., is in the process of developing land for townhouses on the west side of 171 Street, across the street from the subject site. Projects include Surrey Project No. 7912-0055-00, a 26-unit townhouse project at 253 171 Street, and Surrey Project No. 7912-0283-00, a 22-unit townhouse project at 277 171 Street. The former project is nearing completion of construction and building occupancy, and the latter has a Building Permit issued and construction is ready to commence.
- There is existing parkland to the south of the site, and existing and future parkland and riparian protection area located to the east of the site. The Parks, Recreation and Culture Department plans to construct an east-west multi-use pathway (the Douglas Greenway) within parkland to the south of the site, and a north-south pathway to the east of the site through existing and future parkland.

Proposal

- The proposal includes a rezoning from "One-Acre Residential Zone (RA)" to "Multiple Residential 30 Zone (RM-30)" and a Development Permit in order to allow for 67 townhouse units. A Development Variance Permit is also required in order to accommodate reduced setbacks from all property lines, to allow 44 units to have unenclosed parking, and to allow one (1) visitor parking stall to be located within the side (south) yard setback. These variances are discussed further in the "By-law Variance and Justification" section of this report.
- The unit density proposed is 25 upa and the Floor Area Ratio (FAR) proposed is 0.87. The maximum FAR permitted in the RM-30 Zone is 0.90.
- The outdoor amenity area proposed is 240.5 square metres (2,589 sq. ft.) in area, which exceeds the requirement of 201 square metres (2,164 sq. ft.) under the RM-30 Zone.
- The indoor amenity area proposed is 58.4 square metres (629 sq. ft.), which is less than the required 201 square metres (2,164 sq. ft.) under the RM-30 Zone. The shortfall in indoor amenity space must be addressed prior to final adoption.

PRE-NOTIFICATION

Pre-notification letters were sent out on February 19, 2014. Staff received six (6) responses to the pre-notification letters, as summarized below:

• The Little Campbell Watershed Society (LCWS) submitted a letter on March 12, 2014 requesting additional information about the proposed stormwater management strategy for the development. The LCWS's prime concern is current and future habitat protection of streams and creeks feeding into the Little Campbell River. The Engineering Department and the applicant's civil engineering consultant provided the requested information to the LCWS on March 20 and 21, 2014. The LCWS provided a follow-up letter on March 24, 2014 indicating that the Society is satisfied with the proposed stormwater management strategy and Low Impact Development measures that will be utilized.

• Five (5) residents from the newly constructed single family developments to the north of the subject site responded to the pre-notification mail-out. One (1) respondent asked for more information but did not provide any comments or concerns on the proposal. The remaining four (4) respondents expressed concerns regarding the following issues:

o Concern that the proposed density is too high.

(As discussed above, there are a variety of factors which contribute to the argument for permitting a higher density at this location. These include: (a) the proposal is consistent with neighbouring townhouse projects which have been approved by Council; (b) the applicant is providing additional dedication on 3 Avenue and a riparian dedication along 171 Street without compensation, along with riparian enhancements, which will benefit the community; (c) the proposal includes a number of smaller 2-bedroom units which will increase the housing choice and diversity in the Douglas neighbourhood; and (d) the applicant has consolidated all of the properties between 3 Avenue and the neighbourhood park, allowing for a comprehensive townhouse design.)

Concerns regarding increased traffic and lack of parking.

(The proposal meets the by-law requirements for both resident and visitor off-street parking. The proposed units with tandem parking have 1 parking space enclosed and 1 unenclosed. While this does require a variance to the RM-30 Zone, variances to this requirement are typically supported as it has been found that people are less likely to convert their garage into storage or livable space when they have only 1 unenclosed space as opposed to 2. Further, through the development, 3 Avenue would be completed, and 171 Street upgraded; both streets will accommodate on-street parking.)

o Concern regarding inadequate road infrastructure.

(The proposed development would improve the road infrastructure. On 3 Avenue, the remaining road dedication would be provided, and the road would be constructed to a local road standard, including a sidewalk, boulevard, street trees and street lighting. On 171 Street, the road would be constructed to a local road standard including a sidewalk, boulevard, street trees and street lighting.)

O A request for a green buffer on 3 Avenue to buffer the townhomes on the south side of the street from the single family homes on the north side of the street.

(For the street-facing units on 3 Avenue, a 4.5 metre (15 ft.) setback is proposed, with townhouse units fronting the street. Landscaping in the front yard on 3 Avenue is proposed to include tree and shrub planting. Street trees would also be planted within the City road allowance on 3 Avenue in the boulevard strip between the sidewalk and the street, which would provide a double-row of trees along the street. This interface is considered appropriate with the existing single family homes on the north side of 3 Avenue.)

DESIGN PROPOSAL AND REVIEW

• The development consists of 67 townhouse units in 11 buildings. There are 29 two-bedroom units, 15 three-bedroom units, and 23 four-bedroom units proposed. All of the townhouses are 3-storeys.

- 23 of the proposed units (34%) have double, side-by-side garages, and 44 (66%) have tandem garages.
- The street-fronting units on 3 Avenue and 171 Street have doors facing the street, a walkway connecting each residence to the street, windows and living space on the street-facing side that provide casual surveillance of the street and interaction with the public realm.
- To the south of the site is City-owned parkland, and to the east of the site is existing and anticipated future parkland/riparian area. The Parks, Recreation and Culture Department is planning for an east-west multi-use path (the Douglas Greenway) to the south of the site, and a north-south path to the east of the site. The units along the south and east edges of the site have been treated to front the existing and future parkland, with the entrance/door on the park-facing side, windows and living space on the street-facing side that provide casual surveillance of the park and interaction with the public realm.
- An on-site pathway is proposed along the south and east edges of the site. The park-facing units all
 have walkways from the path to their front doors. The on-site path will connect with the future parks
 pathways when they are constructed.
- The proposed townhouse units will be constructed using duroid shingles as the roofing material, and a combination of cedar shingle siding, hardi board siding and vinyl siding as the primary cladding materials.
- The outdoor amenity area has been located at the northeast corner of the site in order to preserve a cluster of mature trees.
- The landscaping plan incorporates a variety of shrubs and trees and hard surface materials.

TREES

• Peter Mennel, ISA Certified Arborist of Mike Fadum & Associates Ltd. prepared an Arborist Assessment for the subject property. The table below provides a summary of the tree retention and removal by tree species:

Table 1: Summary of Tree Preservation by Tree Species:

Tree Species	Existing	Remove	Retain
Alder	and Cottonwood	d Trees	
Alder	4	4	0
Cottonwood	4	4	0
	Deciduous Tree Alder and Cotton		
Apple	2	2	0
Aspen, Trembling	6	6	0
Ash	1	1	0

Tree Species	Exis	ting	Remove	Retain
Birch, Paper	6	5	6	0
Cherry	1		1	0
Dogwood,	2	2	1	1
Hazelnut	3	3	3	0
Katsura	1		1	0
Maple,	3	3	3	0
Maple, Red	2	2	2	0
Walnut	1	l	0	1
	Conifero	ous Tree	s	
Cedar,	1		1	0
Cedar, Western Red	4	6	42	4
Douglas-fir	18	8	12	6
Falsecypres	4	1	4	0
Fir, Grand	1		1	0
Hemlock,	3	3	3	0
Spruce Sitka	7	7	4	3
Total (excluding Alder and Cottonwood Trees)	10	80	93	15
Additional [Estimated] Trees in the proposed Riparian Area	6	5	0	6
Total Replacement Trees Prop (excluding Boulevard Street Trees			126	
Total Retained and Replaceme Trees	ent	141		
Contribution to the Green City	Fund		\$20,400.0	00

- The Arborist Assessment states that there are a total of 108 protected trees on the site, excluding Alder and Cottonwood trees. 8 existing trees, approximately 7% of the total trees on the site, are Alder and Cottonwood trees. It was determined that 15 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 and proposed lot grading.
- Table 1 includes an additional 6 protected trees that are located within the proposed riparian area, which is proposed to be conveyed to the City as parkland. The trees within the riparian area will be retained, except where removal is required due to hazardous conditions. This will be determined at a later time, in consultation with the Parks, Recreation and Culture Department.
- A detailed planting plan prepared by a Registered Professional Biologist (R.P. Bio.) and an associated P-15 agreement are required for the monitoring and maintenance of the proposed trees to be planted in the conveyed riparian area.

• For those trees that cannot be retained, the applicant will be required to plant trees on a 1 to 1 replacement ratio for Alder and Cottonwood trees, and a 2 to 1 replacement ratio for all other trees. This will require a total of 194 replacement trees on the site. Since only 126 replacement trees can be accommodated on the site, the deficit of 68 replacement trees will require a cash-in-lieu payment of \$20,400, representing \$300 per tree, to the Green City Fund, in accordance with the City's Tree Protection By-law.

- In addition to the replacement trees, boulevard street trees will be planted on 3 Avenue and 171 Street. This will be determined at the servicing agreement stage by the Engineering Department.
- The new trees on the site will consist of a variety of species including Red Japanese Maples, Columnar Red Maples, October Glory Maples, Nootka Cypress, Royal Star Magnolia, Serbian Spruce and Zelkova Serrata.
- In summary, a total of 141 trees are proposed to be retained or replaced on the site with a contribution of \$20,400 to the Green City Fund.

SUSTAINABLE DEVELOPMENT CHECKLIST

The applicant prepared and submitted a sustainable development checklist for the subject site on March 17, 2014. The table below summarizes the applicable development features of the proposal based on the seven (7) criteria listed in the Surrey Sustainable Development Checklist.

Sustainability	Sustainable Development Features Summary
Criteria	
1. Site Context & Location (A1-A2)	• Located within the Douglas Neighbourhood Concept Plan (NCP) area.
2. Density & Diversity (B1-B7)	 An increase in density is proposed. A range of 2, 3 and 4-bedroom units are proposed. The smaller units will increase affordability in the area, as well as the diversity of the housing stock.
3. Ecology & Stewardship (C1-C4)	 The development uses Low Impact Development Standards (LIDS) including absorbent soils, and on-site infiltration trenches or subsurface chambers. A 1,000 square metre riparian area is proposed to be conveyed to the City as parkland. The existing watercourse is proposed to be reconstructed within this area, and riparian plantings are proposed. This work is considered an enhancement and benefit to the community. The riparian area represents approximately 8% of the entire site area. Recycling pick-up will be made available.

4. Sustainable Transport & Mobility (D1-D2)	 Bicycle parking is proposed. Pedestrian connectivity is well thought-out on the site, and connections will be made to future off-site paths within City parkland.
5. Accessibility & Safety (E1-E3)	 Units are oriented toward the street and park and provide territorial reinforcement and natural surveillance of the street and park. The proposal includes playground space and outdoor and indoor community gathering space.
6. Green Certification (F1)	• N/A
7. Education & Awareness (G1-G4)	• Area residents are involved in the planning process through the typical development application review process, including prenotification letters and a development proposal sign.

BY-LAW VARIANCE AND JUSTIFICATION

(a) Requested Variance:

• To reduce the minimum front (west) yard setback of the RM-30 Zone from 7.5 metres (25 ft.) to 4.68 metres (15 ft.) adjacent to 171 Street and 3.0 metres (10 ft.) adjacent to the riparian area.

Applicant's Reason(s):

• Units fronting 171 Street directly address the public realm of the sidewalk encouraging neighbourhood interaction and 'eyes on the street'.

Staff Comments:

- The proposed setback reduction is reasonable and allows for a human scale streetscape. The units fronting 171 Street have been designed to have a presence along the street with windows and living space facing the street, which is in keeping with CPTED design principles.
- The 3 metre (10 ft.) setback proposed for the units adjacent to the riparian / watercourse area. This is considered a reasonable setback.

(b) Requested Variance:

• To reduce the minimum rear (east) yard setback and the minimum side (south) yard setback of the RM-30 Zone from 7.5 metres (25 ft.) to 5.0 metres (16 ft.) for all buildings except for Building No. 10, for which a variance to 4.0 metres (13 ft.) is proposed.

Applicant's Reason(s):

• Future east-west and north-south paths are planned in the existing and future parkland to the east and south. Homes fronting onto these paths will increase safety in these parks. The proposed setback encourages neighbourhood interaction and 'eyes on the park'.

Staff Comments:

- The units along the eastern and southern edges of the site front onto existing and future parkland and a future trail network within the parkland. CPTED design principles have been considered in the design of these units. As a result, the setback relaxations are considered appropriate and are acceptable.
- The 4.0 metre (13 ft.) setback along the south property line to proposed Building No. 10 is considered appropriate as it is a side yard condition on the south side.

(c) Requested Variance:

• To reduce the minimum side (north) yard setback of the RM-30 Zone from 7.5 metres (25 ft.) to 4.5 metres (15 ft.).

Applicant's Reason(s):

- Units fronting 3 Avenue directly address the public realm of the sidewalk encouraging neighbourhood interaction and 'eyes on the street'.
- Architectural significance is encouraged on the front façade via a layering effect of hedging, front yard rail fencing, thoughtfully designed entry gates and clearly defined entries creating a rich transition from public to private space while also creating homes with pedestrianoriented character and charm. Trees and shrubs of different varieties will be planted to enhance the pedestrian friendly streetscape.

Staff Comments:

• The proposed setback reduction is reasonable and allows for a human scale streetscape. The units fronting 3 Avenue have been designed to have a presence along the street, and have taken into consideration CPTED design principles.

(d) Requested Variance:

• To vary the parking requirements in order to allow one (1) visitor parking space to be located partially within the southerly setback.

Applicant's Reasons:

• The proposed variance will have no impact on the livability of the adjacent homes or the neighbouring park to the south. The location of this visitor parking stall allows for more open space along the internal pedestrian mews and allocates visitor parking more appropriately throughout the site.

Staff Comments:

• Due to the site constraints as a result of road and riparian dedications, and the internal location of the parking space adjacent to City parkland, the variance is considered acceptable.

(e) Requested Variance:

• To vary the tandem parking requirements of the RM-30 Zone to allow one (1) tandem space to be unenclosed for each of the 44 units with tandem parking.

Applicant's Reasons:

- The proposed parking configuration allows for the creation of habitable floor space on the ground floor of these homes. All of the homes front the future park or pedestrian mews improving CPTED in these areas.
- The proposed parking configuration also allows for the diversification of the housing stock in the Douglas NCP. A total of 29 two-bedroom homes are proposed.

Staff Comments:

- The unenclosed tandem parking space for each of the units with tandem parking will help to ensure that parking spaces are not converted into habitable space or storage space in the future.
- The unenclosed parking space allows for each unit to have an entry foyer and living space on the ground floor. For the tandem units adjacent to existing and future parkland, having living space at the street level is a desirable urban design and CPTED objective, as it promotes interaction with the public realm and casual surveillance of the park space.

INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I. Lot Owners, Action Summary and Project Data Sheets

Appendix II. Site Plan, Building Elevations, Landscape Plans and Perspective

Appendix III. Engineering Summary
Appendix IV. School District Comments

Appendix V. Summary of Tree Survey and Tree Preservation

Appendix VI. NCP Plan

Appendix VII. Development Variance Permit No. 7913-0286-00

Appendix VIII. Riparian Planting Plan

original signed by Nicholas Lai

Jean Lamontagne General Manager Planning and Development

HK/da

Information for City Clerk

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

1. (a) Agent: Name: Sam Hooge

Dawson & Sawyer

Address: Unit 101, 15230 - Highway 10

Surrey, BC V₃S₅K₇

Tel: 604-626-5040

2. Properties involved in the Application

(a) Civic Address: 276 - 171 Street

260 - 171 Street 246 - 171 Street

(b) Civic Address: 276 171 Street
Owner: Joseph Connolly

PID: 011-253-941

Lot 22 Section 6 Township 7 New Westminster District Plan 7418

(c) Civic Address: 260 171 Street
Owner: Sandra Carpenter

PID: 010-320-784

Lot "A" Section 6 Township 7 New Westminster District Plan 17785

(d) Civic Address: 246 171 Street

Owner: Robert & Sandra Byers

PID: 010-320-806

Lot "B" Section 6 Township 7 New Westminster District Plan 17785

- 3. Summary of Actions for City Clerk's Office
 - (a) Introduce a By-law to rezone the property.
 - (b) Application is under the jurisdiction of MOTI. YES

MOTI File No. 2014-00707

(c) Proceed with Public Notification for Development Variance Permit No. 7913-0286-00 and bring the Development Variance Permit forward for an indication of support by Council. If supported, the Development Variance Permit will be brought forward for issuance and execution by the Mayor and City Clerk in conjunction with the final adoption of the associated Rezoning By-law.

DEVELOPMENT DATA SHEET

Proposed Zoning: RM-30

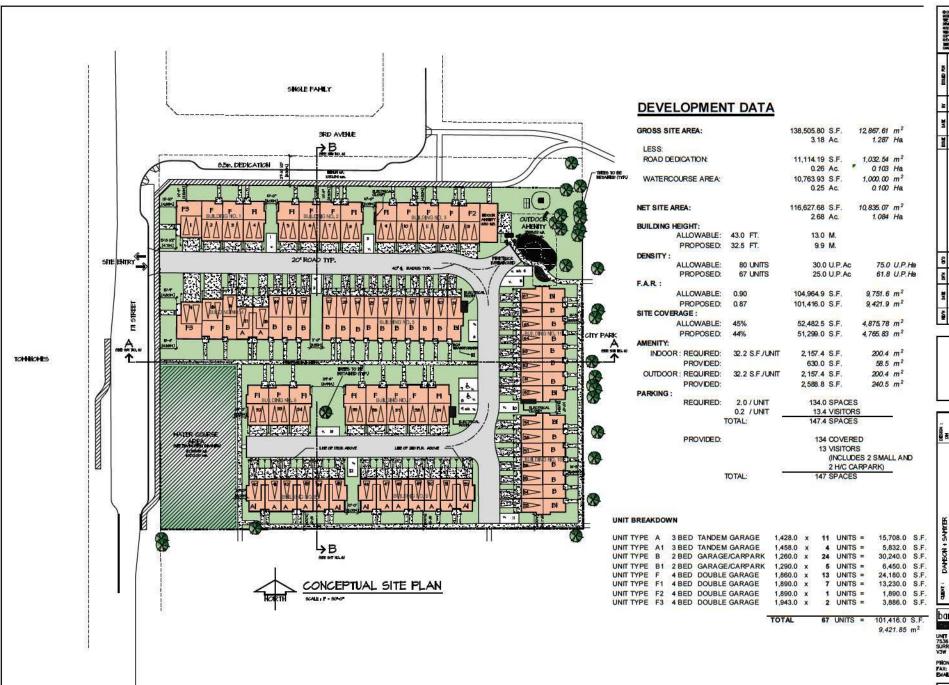
Required Development Data	Minimum Required	Proposed
	/ Maximum Allowed	
LOT AREA* (in square metres)	Waxiiiuiii Ailoweu	
Gross Total		12,867.61 m²
Road Widening area		1,032.54 m ²
Undevelopable area		1,000 m ²
Net Total		10,835.07 m ²
ivet iotai		10,035.07 111
LOT COVERAGE (in % of net lot area)		
Buildings & Structures	45%	44%
Paved & Hard Surfaced Areas		, , ,
Total Site Coverage		
SETBACKS (in metres)		
North	7.5 m	4.5 m (DVP req'd)
South	7.5 m	5.0 m and 4.0 m
30444	7.5	(DVP req'd)
East	7.5 m	5.0 m (DVP req'd)
West (from 171 Street)	7.5 m	4.68 m (DVP req'd)
West (from riparian area)	7.5 m	3.05 m (DVP req'd)
west (nom ripurum ureu)	7.5)
BUILDING HEIGHT (in metres/storeys)		
Principal	13 m	9.9 m
Accessory		
NUMBER OF RESIDENTIAL UNITS		
Bachelor		
One Bed		
Two Bedroom		
Three Bedroom +		
Total		
FLOOR AREA: Residential		9,412 m²
FLOOR AREA: Commercial		
Retail		
Office		
Total		
10141		
FLOOR AREA: Industrial		
FLOOR AREA: Institutional		
TOTAL DUILDING FLOOD AREA		2
TOTAL BUILDING FLOOR AREA		9,412 m²

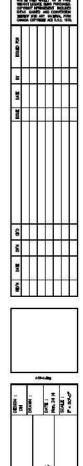
^{*} If the development site consists of more than one lot, lot dimensions pertain to the entire site.

Development Data Sheet cont'd

Required Development Data	Minimum Required / Maximum Allowed	Proposed
DENSITY		
# of units/ha /# units/acre (gross)		52 uph / 21 upa
# of units/ha /# units/acre (net)		61.8 uph / 25 upa
FAR (gross)		0.73
FAR (net)		0.87
AMENITY SPACE (area in square metres)		
Indoor	201 m ²	58.5 m²
Outdoor	201 m ²	240.5 m²
PARKING (number of stalls)		
Commercial		
Industrial		
Residential Bachelor + 1 Bedroom		
2-Bed		58
3-Bed		30
4-Bed		46
Residential Visitors		13
Institutional		
Total Number of Parking Spaces		147
Number of disabled stalls		2
Number of small cars		2
Tandem Parking Spaces: Number / % of Total Number of Units		66%
Size of Tandem Parking Spaces width/length		

Heritage Site	NO	Tree Survey/Assessment Provided	NO



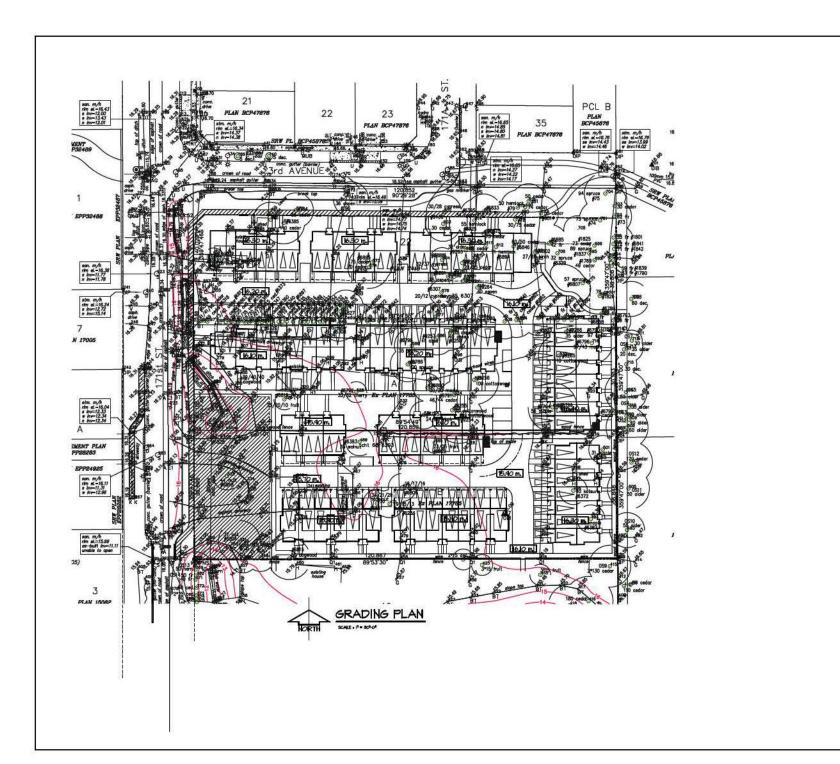


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100	- 32.00	
	CONCEPTION, SITE PLAN AND DEVELOPMENT DATA	504E:

NIT 135, 536 130 STREET, URREY, B.C. 3W 148

PHONE: (604) 597-FAX: (604) 597-EMAL: mail 9 billionists

CLIDAT NO. SHEET NO. 601 AC-3
PROJECT NO. NEV. NO. 13043



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QUBIT: DAMBON + SAMITER		PROJECT :	I'I ST, I 3 AVE, SURREY, BC	THE CANADATE .	CONCEPTUAL SITE PLAN

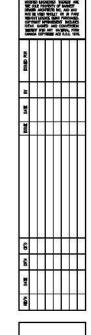
UNIT 135, 7536 130 S SURREY, BJ V3W 1HB

ISB 130 STREET, IRREY, B.C.

PHONE: (604) 597-7100 FAX: (604) 597-2099 EMAIL: mail © blanktex.com

AC-4
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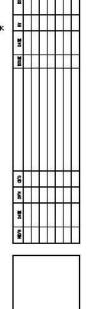


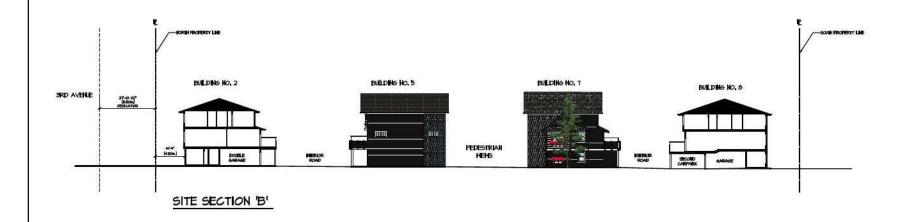


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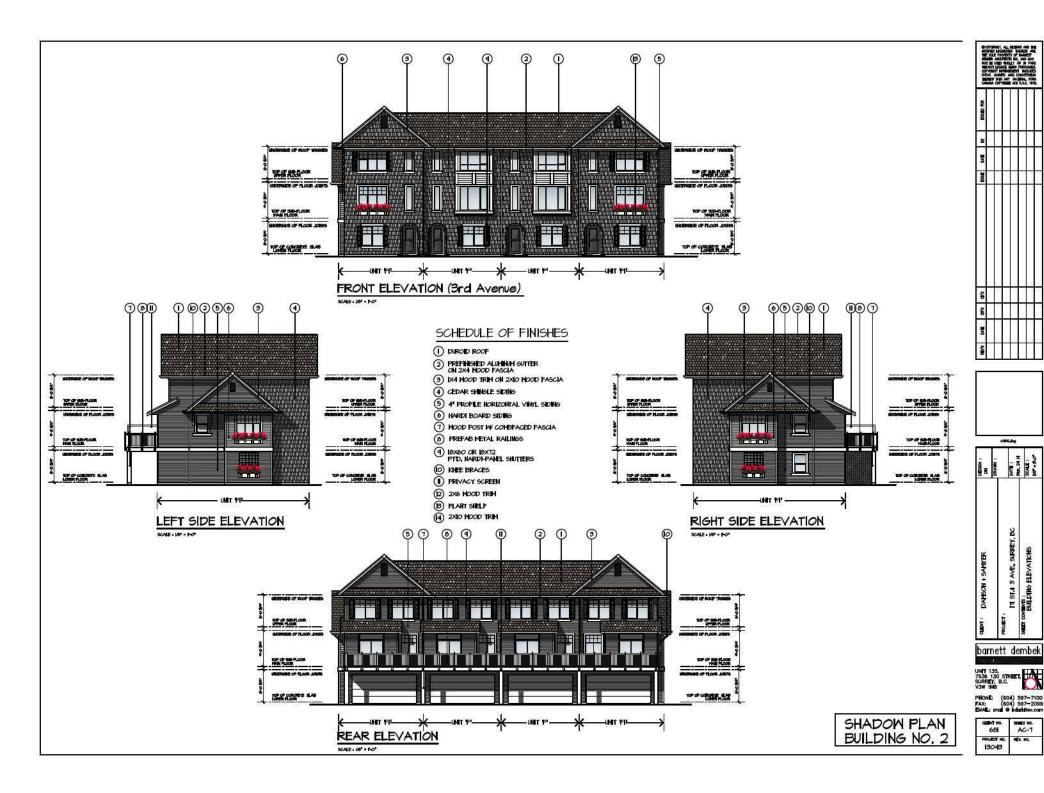


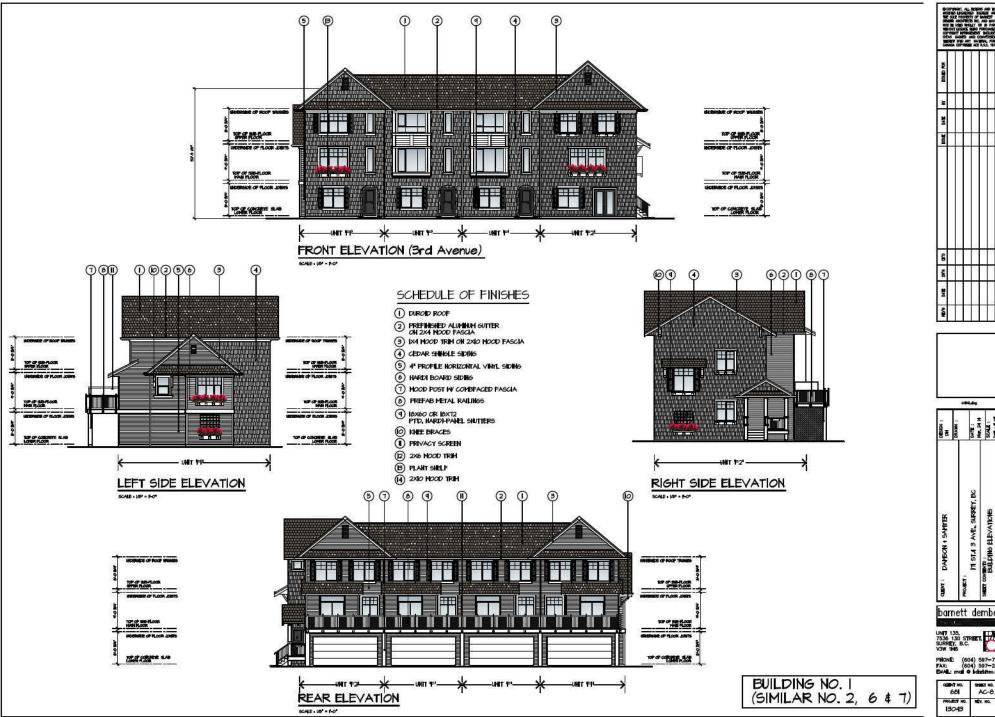


UNIT 135, 7536 130 STREET, SURREY, B.C. V3W 1HB

PHONE: (604) 597— FAX: (604) 597— DAAL: mail © bdarkte

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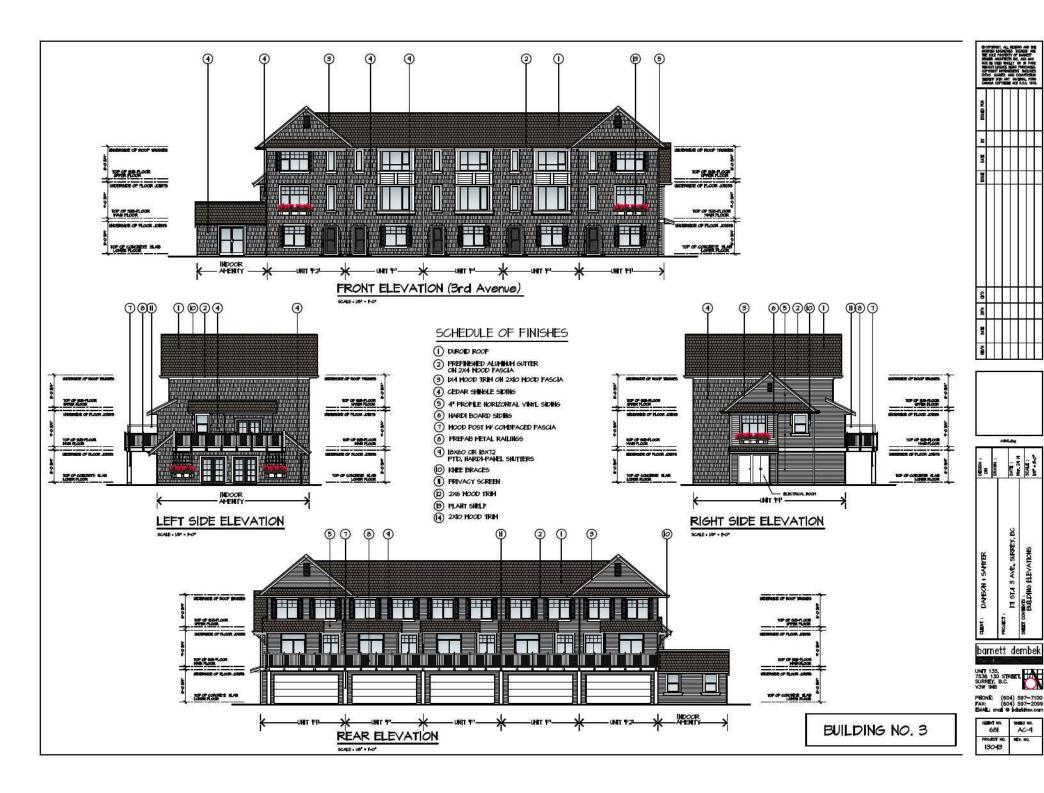


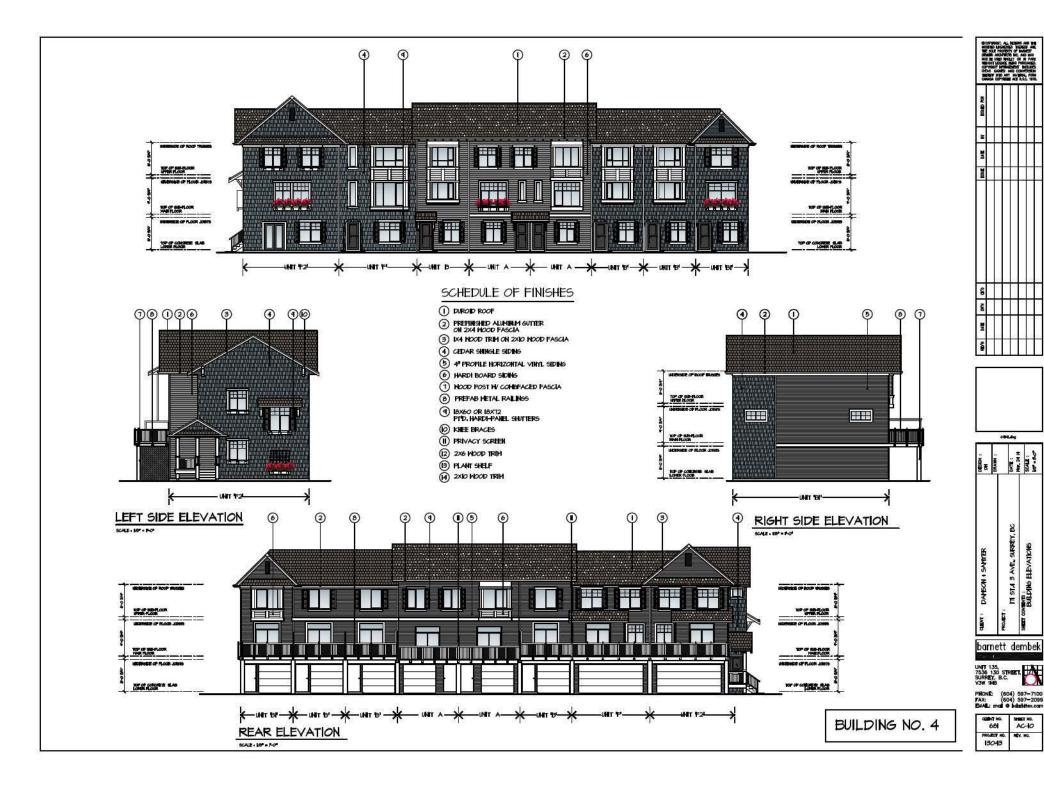
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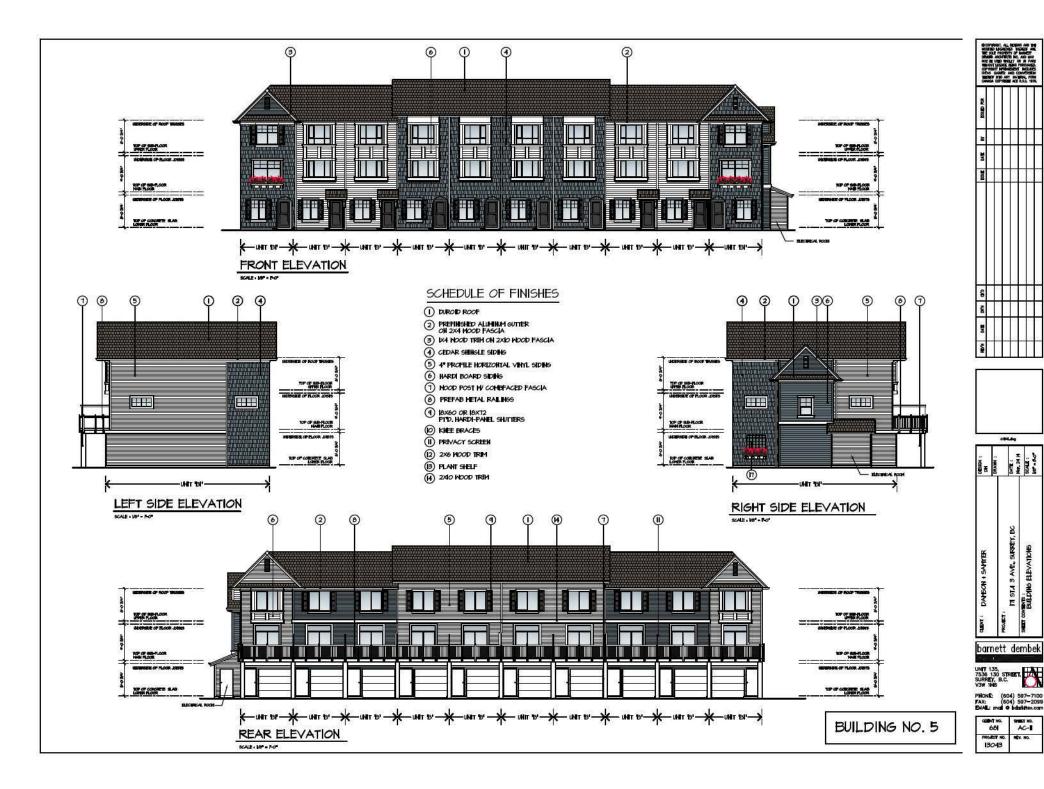
UNIT 135, 7536 130 STREET, SURREY, B.C. V3W 1H8

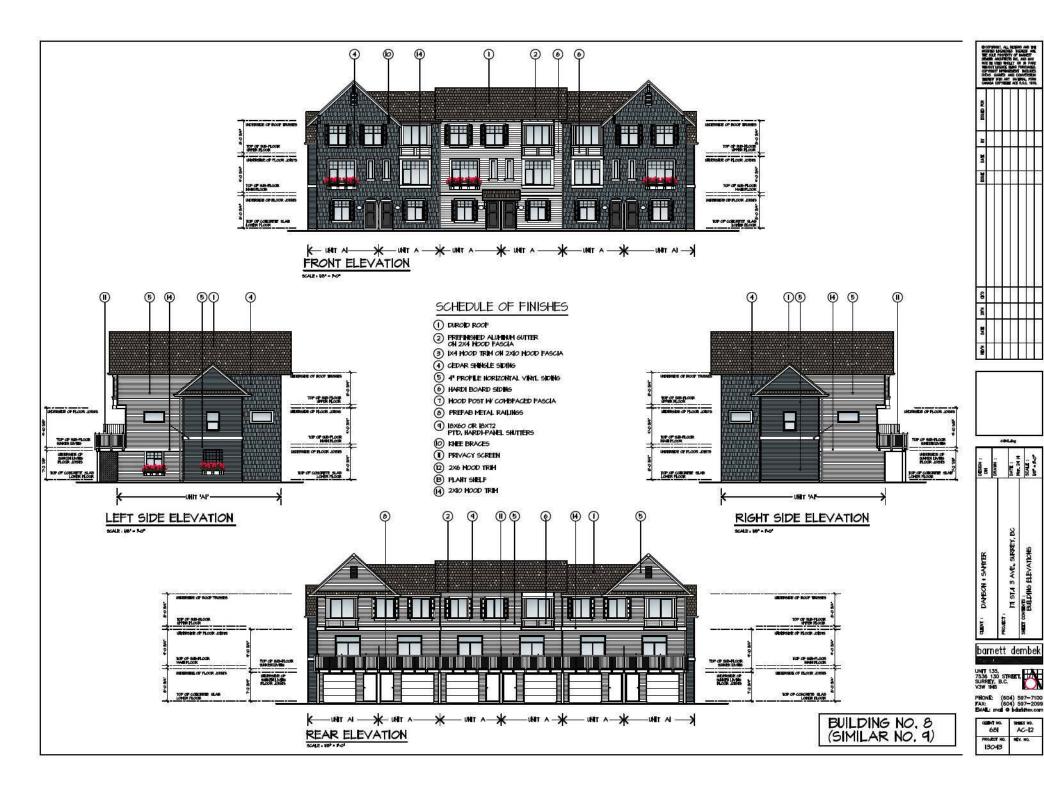
PHONE: (604) 597-7100 FAX: (604) 597-2099 DAML: mail @ bidgridtex.com

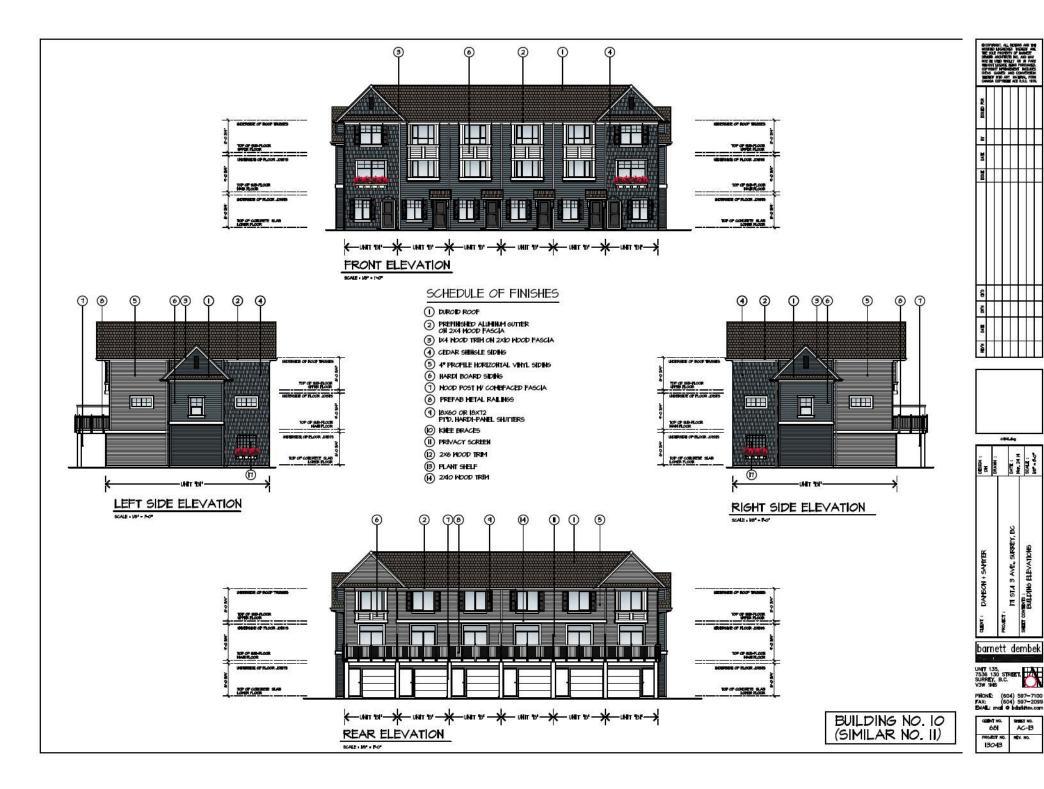
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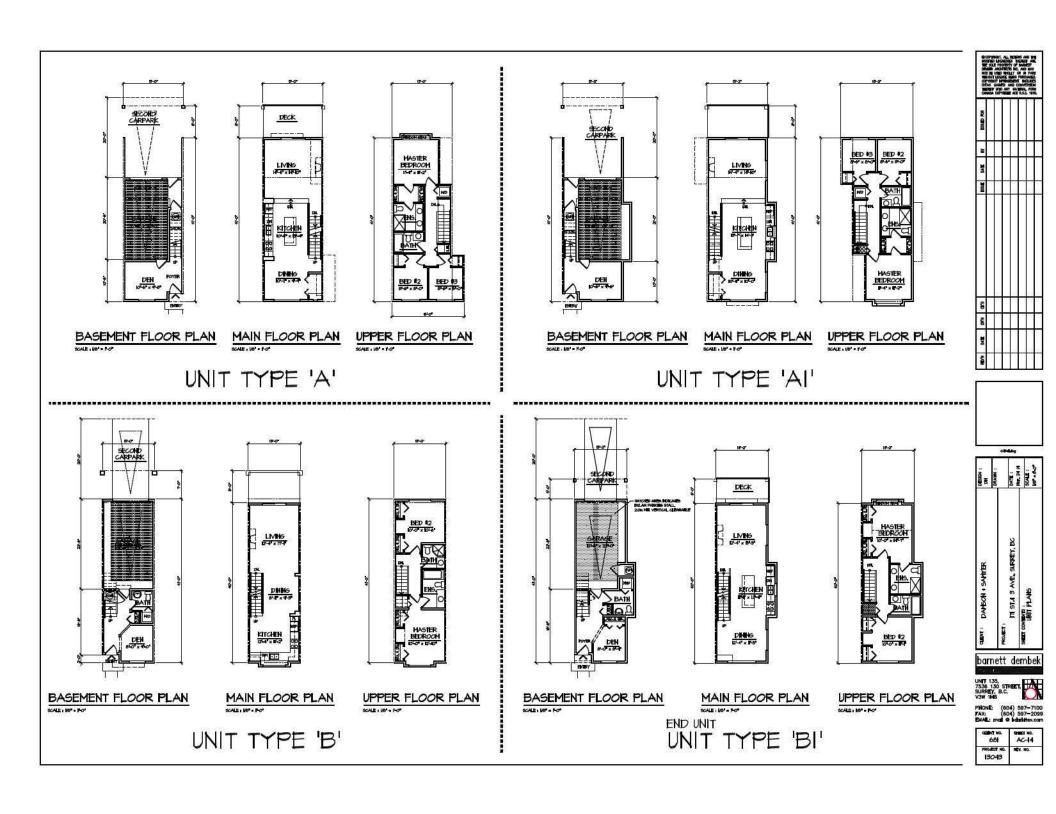


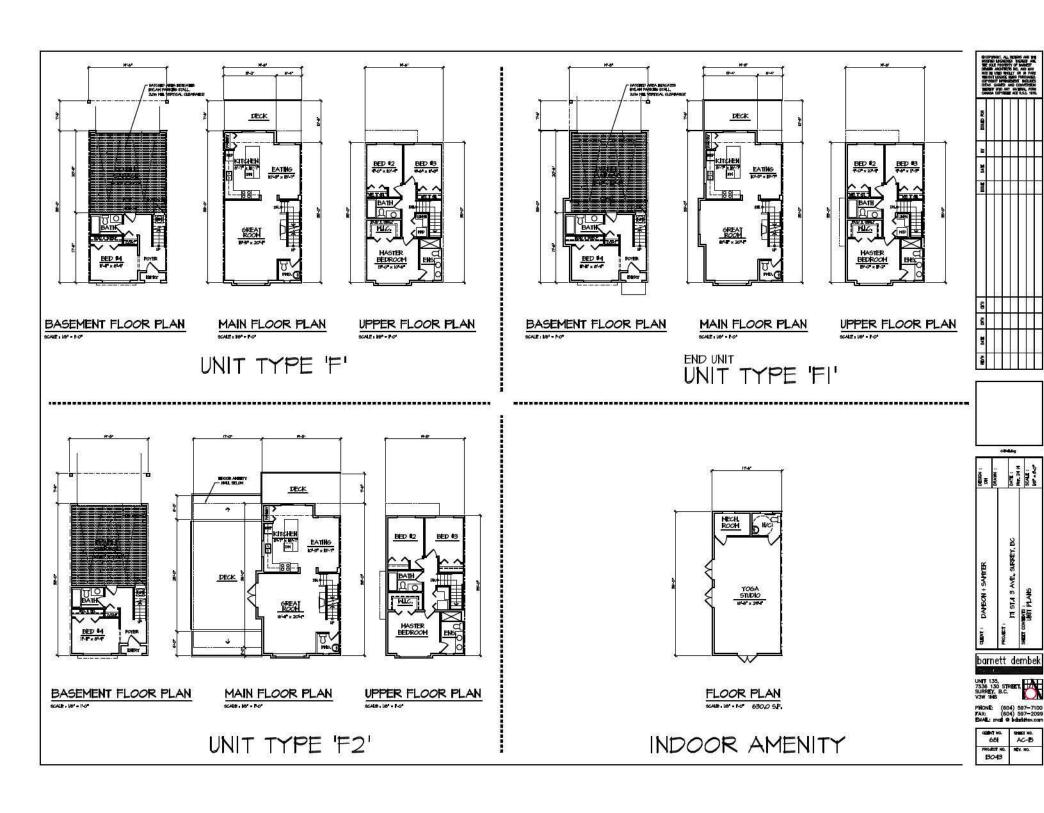










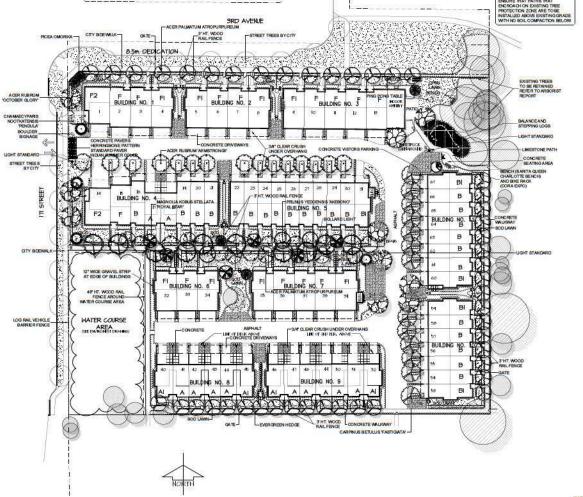




PAST PROJECTS

PLANT SCHEDULE PMGPROJECT NUMBER: 13-173 PLANTED SIZE / REMARKS ACER PAUMATUM ATROPURPUREUM RED JAPANESE MAPLE SCM CAL; BAB ACER RUBRUM WRMSTRONGIN ACER RUBRUM YOCTOBER GLORY COLUMNAR RED MAPLE BOM CAL: 2M STD: BAB OCTOBER OL ORY MAPLE FOM CAL 2M STD BAR ACER RUBRIUM OCTOBER GLORY
CARPINUS BETULUS FASTIGIATA*
CHAMAECYPARIS NOOTKATENSIS PENDULA*
MAGNOLIA KOGUS STELLATA ROYAL STAR
PICE A CANORIKA OCTOBER GLORY MARLE PYRAMIDAL EUROPEAN HORNBEAN WEEPING NCOTIKA CYPRESS ROYAL STAR MAGNOLIA SERBIAN SPRUCE 60M CAL; 2M STD; B&B 50M CAL; B&B 3M HT; B&B 50M CAL; 2M HT; B&B 3M HT; B&B 60M CAL; B&B 60M CAL; B&B AUSTRIAN BLACK PINE PINUS NIGRA PRUNUS YEDDENSIS WKEBONO DAYBREAK CHERRY THUJA PLICATA EXCELSA WESTERN RED CEDAR SM HT BAB SAMLE AF ZELKOVA BOM CAL; 18M STO; B&B

NOTES - PLANT SZES IN THIS LIST ARE SPECIFIED ACCORDING TO THEIR LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SZES SPECIFIED AS PER CHARACTURAN SCHOOL SCHO



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LANDSCAPE ARCHITECTS Sulfe C100 - 4165 SBII Creek Drive Burnaby, British Columbia, VSC 609 g. 604 294-0022

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PROJECT:

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RESIDENTIAL DEV.

171st STREET & 3rd AVENUE SURREY, BC

DRAWING TITLE

LANDSCAPE PLAN

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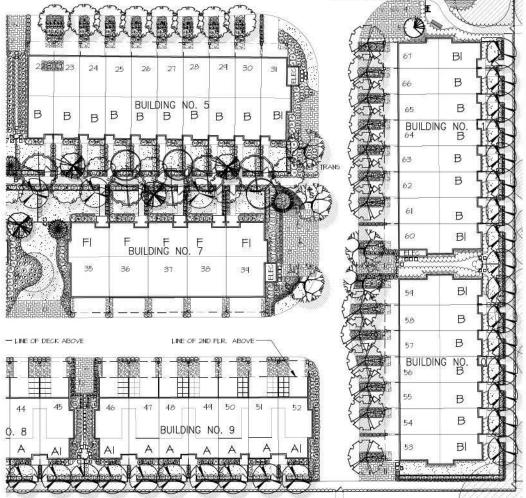
KEY QTY	BOTANICALNAME	CO MMON NAME	PLANTED SIZE / REMARKS
SHRUB			
(m)	AZALEA JAPONICA HARDIZER'S BEAUTY	AZALEA; LIGHTPINK	#2 POT: 25CM
(A)	BUXUS SEMPERVIRENS 'SUFFRUTICOSA'	DWARF ENGLISH BOXWOOD	#3 POT; 40CM
(m)	ENKIANTHUS CAMPANULATUS	ENKIANTHUS	ASPOT; SOCM
i iii	HYDRANGEA MACROPHYLLA'NINKO BLUE	BIGLEAF HYDRANGEA (BLUE)	ASPOT, SOCM
8	NANDINA DOMESTICA	HEAVENLY BAMBOO	#3 POT
×	PIERIS JAPONICA MOUNTAIN FIRE	JAPANESE ANDROMEDA	AS POT, SOCIAL
8	PRUNUS LAUROCERASUS 'RE YNVAANI'	RUSSIAN LAUREL	#7 POT; 90CM
(e)	RHODODENDRON WAN KRUSCHKE	RHODOGENDRON; BLUE	#3 POT; SOCM
8	RHODODENDRON'BOW BEILLS'	RHODODENDRON	#3 POT, 50CM
(a)	SIGMMIA JAPONICA (10% MALE)	JAPANESE SIGMMIA	#2 POT: 30CM
38802020888C	SPIRAEA JAPONICA LITTLE PRINCESS	LITTLE PRINCESS SPIRAEA: PINK	#2 POT: 40CM
8	TAXUS X MEDIA HILLI'	HILL'S YEW	B&B, 10M
Ø.	VIBURIUM TINUS 'CWARF'	SPRING BOUGUET	#3 POT; SOCM
GRASS			
0	CAREX YOSHIMENSIS EVERGOLD	SILVER VARIEGATED SEDGE	#1 POT
6	HAKONECHLOA MACRA 'AUREOLA'	GOLD VARIE GATED JAP AN ESE FOREST GRASS	#1POT
8	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	#2 POT
8	IMPERATA CYLINDRICA RED BARON	BLOOD GRASS	#1 POT
8	MISCANTHUS SINENSIS 'YAKUJIMA'	YAKUJIMA JAP, SILVER GRASS	#3POT
8	PENNISETUM ALOPECUROIDES HAMELIN'	DWARF FOUNTAIN GRASS	#1POT
300000E	STIPA TENJISSIMA	MEXICAN FEATHER GRASS	#1POT
PERENNAL			
(P)	HEMEROCALUS YELLOW STONE	DAYLILY; LIGHT YELLOW	#1POT; 1-2FAN
X	HEUCHERA PALACE PURPLE	HEJOHERA	15CM POT
8			
0	ERICA CARNEA SPRINGWOOD WHITE	WINTER HEATH, WHITE	#1POT
900	GAULTHERIA SHALLON	BALAL	#1 POT, 200M
To the second	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1 POT: 25CM

(O) TO THE PLANT SIZE IN THE LIST ARE SPECIFIED ACCORDINGTO THE DISTANCE STANDARDS. BOTH ACCORDINGTO THE DISTANDARDS. BOTH ACCORDINGTO THE DISTANDARDS. BOTH ACCORDINGTO THE DISTANDARDS. BOTH ACCORDINGTO THE DISTANDARDS. BUSINESS OF THE DISTANDARD STANDARDS. BUSINESS OF THE DISTANDARD STANDARD STANDARD

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LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, Birlish Columbia, VSC 609
p: 604 294-0022

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PROJECT:

RESIDENTIAL DEV.

171st STREET & 3rd AVENUE SURREY, BC

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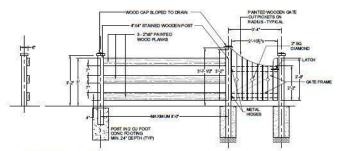
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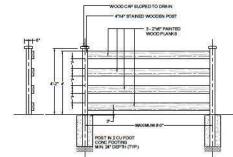
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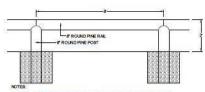
ALL LUMBER TO BE CEDAR NO. 2 OR BETTER ALL HARDWARE MUST BE GALVANIZED OR ACQ APPROVED.

3' HT. RAIL FENCE



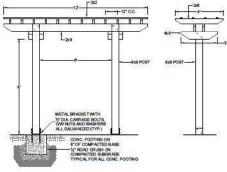
AL LUMBER TO BE CEDAR NO. 2 OR BETTER ALL HARDWARE MUST BE GALVANZED OR AGO APPROVED.



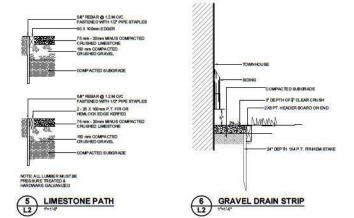


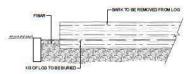
MN 7 ROUND PEELED PINE POSTS & RALLS - PRESSURE THEATED WITH CCA TO .4 MN SPACING OF POSTS & O.C. MN LEPTH NOTALLED IN GROUND, 24" 9" CALVANIZED SPIKES SHALL BE USED TO ATTACH RALS TO POSTS TO SURREY PRAYS STANCARDS.

3 LOG RAIL VEHICLE BARRIER FENCE











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PROJECT

RESIDENTIAL DEV.

171st STREET & 3rd AVENUE SURREY, BC

DRAWING TITLE

LANDSCAPE DETAILS

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TO:

Manager, Area Planning & Development

- South Surrey Division

Planning and Development Department

FROM:

Development Services Manager, Engineering Department

DATE:

March 21, 2014

PROJECT FILE:

7813-0286-00

RE:

Engineering Requirements Location: 246/260/276 171 Street

NCP AMENDMENT

There are no engineering requirements relative to the NCP Amendment.

REZONE/SUBDIVISION

Property and Right-of-Way Requirements

- Dedicate 8.500 metres along 3 Avenue for the ultimate 20.0 metre Local road Standard.
- Dedicate a 3.0 x 3.0 metre corner cut at the intersection of 171 Street and 3 Avenue.
- Provide a 0.500 Statutory Right-of-Way along the frontages of 171 Street and 3 Avenue.

Works and Services

- Construct east half of 171 Street to the 20.0 metre Through Local Road Standard.
- Construct south half of 3 Avenue to the Limited Local Road Standard.
- Construct a 7.3 metre concrete driveway letdown.
- Construct a flow control manhole and outfall/headwall to maintain baseflows in riparian area.
- Construct storm, water, and sanitary infrastructure to service the development.
- Pay Drainage Latecomer relative to 5812-0055-00-1.
- Pay Development Works Agreement charges 8407-0041-00-1, 8507-0041-00-1, 8607-0041-00-1.
- 100% cash payment of Drainage/Water/Sanitary DCC.

A Servicing Agreement is required prior to Rezone/Subdivision.

DEVELOPMENT PERMIT

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

DEVELOPMENT VARIANCE PERMIT

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

Rémi Dubé, P.Eng.

Development Services Manager

CE



Wednesday, February 19, 2014 **Planning**

School Enrolment Projections and Planning Update:

The following tables illustrate the enrolment projections (with current/approved ministry capacity) for the elementary and secondary schools serving the proposed development.

A new Douglas Area elementary school site has recently been acquired but construction of a new school is subject to Ministry approval in the future. Priority and timing for funding approval may depend upon actual enrolment growth from the Douglas neighbourhood. The School District has purchased a new secondary school site in the Grandview Heights area and has submitted a proposal for a construction of a new secondary school, which is priority #3 in the 2013 - 2017 Five Year Capital Plan. A new secondary school when completed will relieve projected long term capacity shortfall at Earl Marriott Secondary and Semiahmoo Secondary. The proposed development is consistent with projected residential build out of Douglas NCP and will not have an impact on these projections.

THE IMPACT ON SCHOOLS

APPLICATION #:

13 0286 00

SUMMARY

The proposed 68 townhouse units are estimated to have the following impact on the following schools:

Projected # of students for this development:

Elementary Students:	14
Secondary Students:	7

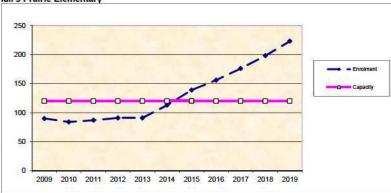
September 2013 Enrolment/School Capacity

Hall's Prairie Elementary

Functional Capacity*(8-12);

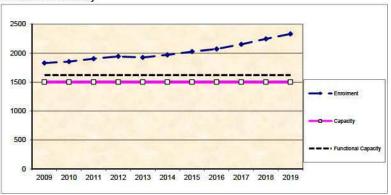
Enrolment (K/1-7):	11 K + 80
Capacity (K/1-7):	20 K + 100
Earl Marriott Secondary	
Enrolment (8-12):	1927
Nominal Capacity (8-12):	1500

Hall's Prairie Elementary



Earl Marriott Secondary

1620



*Functional Capacity at secondary schools is based on space utilization estimate of 27 students per instructional space. The number of instructional spaces is estimated by dividing nominal facility capacity (Ministry capacity) by 25.

MIKE FADUM AND ASSOCIATES LTD. VEGETATION CONSULTANTS

Tree Preservation Summary

Surrey Project No: 13-0286-00

Address: 246 / 60 / 76 - 171 Street, Surrey, BC

Registered Arborist: Peter Mennel

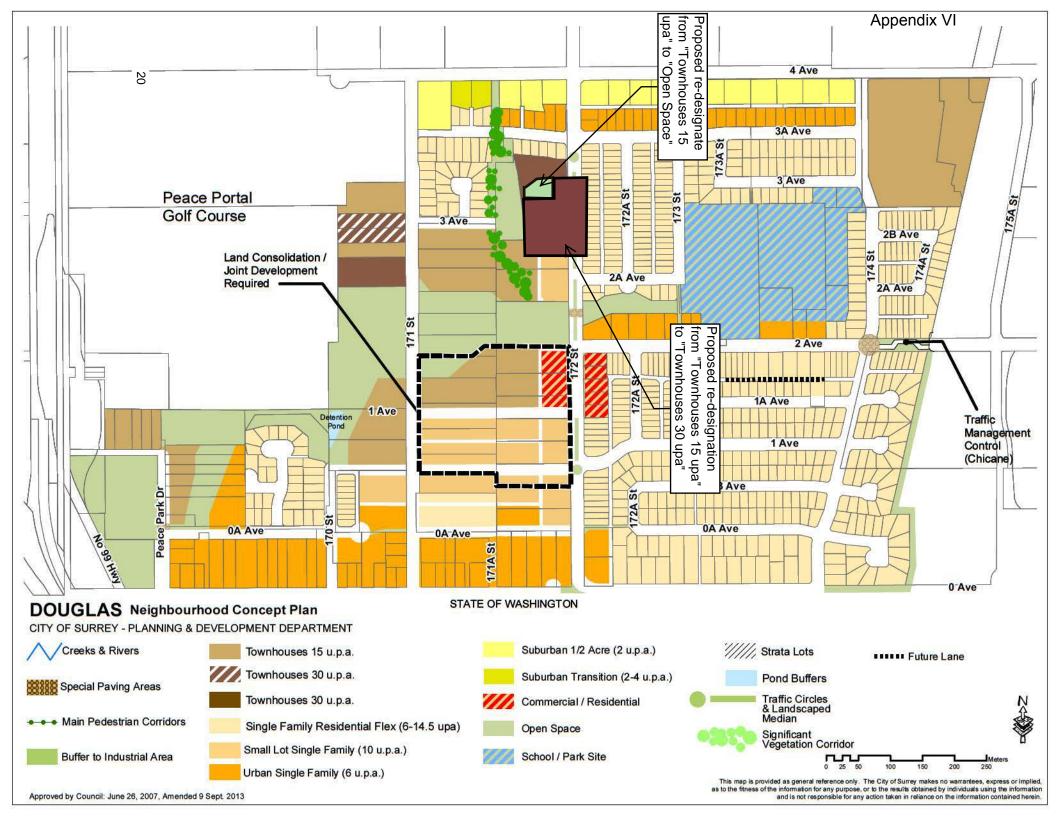
On-Site Trees	Number of Trees
Protected Trees Identified	
(on-site and shared trees, including trees within boulevards and proposed streets	116
and lanes, but excluding trees in proposed open space or riparian areas)	
Protected Trees to be Removed	101
Protected Trees to be Retained	15
(excluding trees within proposed open space or riparian areas)	13,
Total Replacement Trees Required: - Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio 8	194
Replacement Trees Proposed	126
Replacement Trees in Deficit	68
Protected Trees to be Retained in Proposed [Open Space / Riparian Areas]	6

Off-Site Trees	Number of Trees	
Protected Off-Site Trees to be Removed	0	
Total Replacement Trees Required:		
- Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio X one (1) = 0	0	
- All other Trees Requiring 2 to 1 Replacement Ratio X two (2) = 0		
Replacement Trees Proposed	0	
Replacement Trees in Deficit	0	

Summary report and plan prepared and submitted by: Mike Fadum and Associates Ltd.		
Signature of Arborist:	Date: March 14, 2014	







CITY OF SURREY

(the "City")

DEVELOPMENT VARIANCE PERMIT

NO.: 7913-0286-00

Issued To: SANDRA CARPENTER

Address of Owner: 9006 - Ben Nevis Crescent

Surrey, BC V₃V 6K₅

Issued To: ROBERT BYERS

SANDRA BYERS

Address of Owner: 246 - 171 Street

Surrey, BC V₃S₉P₅

Issued To: JOSEPH RAYMOND CONNOLLY

Address of Owner: 13885 - 18 Avenue

Surrey, BC V4A 1W6

(collectively referred to as "the Owner")

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

Parcel Identifier: 011-253-941 Lot 22 Section 6 Township 7 New Westminster District Plan 7418

276 - 171 Street

Parcel Identifier: 010-320-784 Lot "A" Section 6 Township 7 New Westminster District Plan 17785

260 - 171 Street

Parcel Identifier: 010-320-806 Lot "B" Section 6 Township 7 New Westminster District Plan 17785

246 - 171 Street

(the "Land")

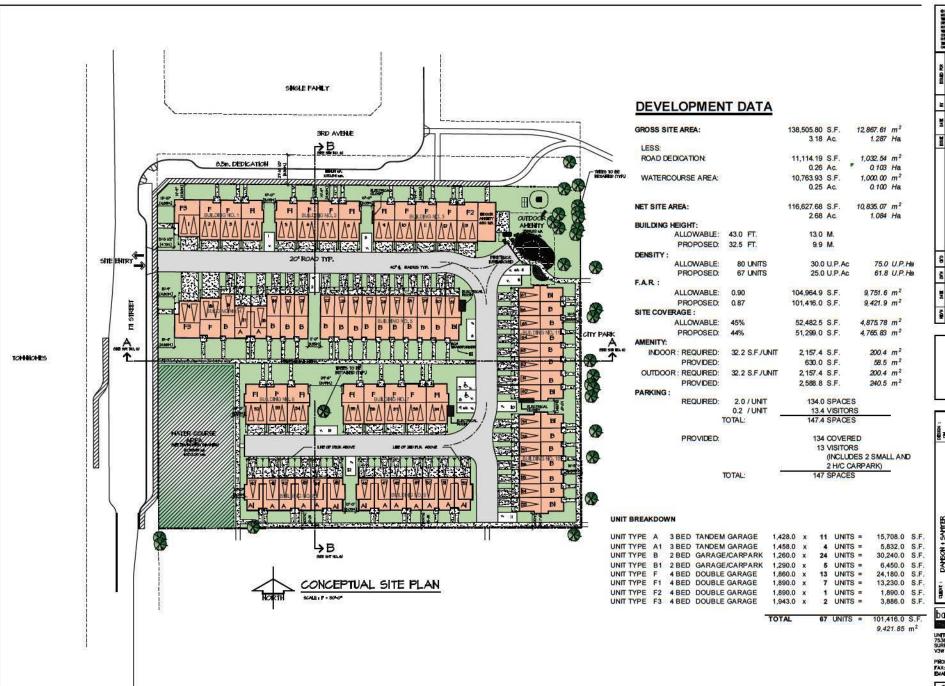
3. (a) As the legal description of the Land is to change, the City Clerk is directed to insert the new legal description for the Land once title has been issued, as follows:

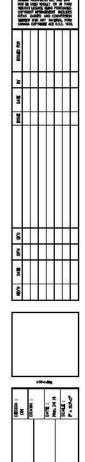
Parcel Identifier:
If the civic address changes, the City Clerk is directed to insert the new civic address for the Land, as follows:

- 4. Surrey Zoning By-law, 1993, No. 12000, as amended is varied as follows:
 - (a) In Section F. of Part 22 Multiple Residential 30 Zone (RM-30) the minimum front (west) yard setback of the RM-30 Zone is reduced from 7.5 metres (25 ft.) to 4.68 metres (15 ft.) fronting 171 Street and 3.0 metres (10 ft.) fronting City parkland;
 - (b) In Section F. of Part 22 Multiple Residential 30 Zone (RM-30) the minimum rear (east) yard setback of the RM-30 Zone is reduced from 7.5 metres (25 ft.) to 5.0 metres (16 ft.);
 - (c) In Section F. of Part 22 Multiple Residential 30 Zone (RM-30) the minimum side (north) yard setback of the RM-30 Zone is reduced from 7.5 metres (25 ft.) to 4.5 metres (15 ft.);
 - (d) In Section F. of Part 22 Multiple Residential 30 Zone (RM-30) the minimum side (south) yard setback of the RM-30 Zone is reduced from 7.5 metres (25 ft.) to 5.0 metres (16 ft.) for Building Nos. 8 and 9, and 4.0 metres (13 ft.) for Building No. 10, as shown on Schedule A;
 - (e) Sub-section H.2 of Part 22 Multiple Residential 30 Zone (RM-30) is varied to allow one (1) visitor parking space to be partially located within the south yard setback, as shown on Schedule A; and
 - (f) Sub-section H.5(b) of Part 22 Multiple Residential 30 Zone (RM-30) is varied to allow one unenclosed tandem parking space for each of the 44 units with tandem parking, as shown on Schedule A.
- 5. The siting of buildings and structures and the visitor parking space located within the south side yard setback shall be in accordance with the site plan as shown on Schedule A which is attached hereto and forms part of this development variance permit.

6.	The Land shall be developed strictly in accordance with the terms and conditions and provisions of this development variance permit.					
7.	This development variance permit shall lapse if the Owner does not substantially start any construction with respect to which this development variance permit is issued, within two (2) years after the date this development variance permit is issued.					
8.	The terms of this development variance permit or any amendment to it, are binding on all persons who acquire an interest in the Land.					
9.	This development variance permit is not a building permit.					
	ORIZING RESOLUTION PASSED BY THE COUNCIL, THE DAY OF , 20 . ED THIS DAY OF , 20 .					
	Mayor – Dianne L. Watts					

City Clerk – Jane Sullivan







SURREY, B.C. V3W 1H8 PHONE: (604) 597-7100 FAX: (604) 597-2099

GLIDIT NO. SHIRT NO.
68 AC-3
PROJECT NO. NOV. NO.
13043

NOTES

1. Refer to Specifications for Composition of Tree
P\$-Planting Medium.

2. Tree to be Selected From Appendix A Libit
of Recommended Plant Metric City of Surrey
Parks Chelbon Sandard Construction Documents.

3, Protect Tree From Damage During Transportation

3, Pentod Time From Damage Curing Transportation and Flatifies.

4. Locate and Raig of Burled Utilized in Ther Platifies are Design Time Platifies are Design Time Platifies are Design Construction.

5. De NHE Expens Ther Rochs to Dischart and Friest, 6. Southly Time Pill Platifies Time.

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8. Southly Ti

NOTES

1. Plant Using Rooting Powder Approved by Owner's Representative According to Manufacturer's Recommendations. Manufacturer's Recommendations.

2. Space Plants as Indicated in Planting Plants, Planting to Conform to BCSLA/BCNTA. Landscape Standard - Current Edition.

Support.

9. Prune Only in Accordance with Standard Construction Documents.

Finish Grade Planting Medium Placed in Max. 300mm Lifts Compacted to 85% MPD Root Ball - Cut and Fold Back Ties When Planting Medium is at 25 Heiight of Root Ball Norm & Pressure Treated Wood

Place Root Ball at Same Finish Grade Elevation as Original Nursery Planting 50mm Depth Bank Mulch Within Tree Well

CITY OF SURREY SHRUB PLANTING DETAIL

> -Nursery Grown Container Stock Create Watering Basin Around Shrub

-Edsting Subgrade Compacted to 85% MPD

CITY OF SURREY TREE PLANTING DETAIL

PLANT SPECIES LIST AND SPECIFICATIONS

Douglas-fr grand fr western redicedar	Pseudotaupa menzissil Ables grandiz	5	2.0m B&B densely branched; well established 2.0m B&B densely branched;
35 (1975) 1 (1975)	Ahias grandiz	3	2.0m B&B: decreely branched
western redoedar			well established
	Thuja piloata	7	2.0m B&B density branched; well established
vine maple	Ager of cinatum	23	1.0m container grown (no. 5 pol); densely branchest well established
baldh i p mae	Rose gymnoceme	160	no. 2 pot densely branched; well extensived
Hooker's willow	Selfx hookerlane	58	no, 2 pot densely branched well established
Indian plum	Osmaronia cerasiformia	68	no, 2 pot; densely branches; well established
oceanspray	Holodiscus discolor	71	no. 2 pot, densely branched; well established
Pacific rifnebark	Physiocennus capitalus	40	no. 2 por, densely branched, well established
red esterberry	Sambuous recemose	51	nn, 2 pot; densely branchest; well extendshed
red-asier dagwood	Comus stolonifers	83	no. 2 pot; densely branched; well established
salmoniterry	Rubus apectabilis	230	no, 2 pot; multi-stemmed; densely branches; well established
anowbarry	Symphonicarpos albus	120	no. 2 pot, densely branched, well established
sold	Gautheria shallon	127	no. 1 pot; multi-branched; well established
snag	Min. 15% composition of the following: Tauge hatemorty/de	7	405mm Ø min.; 6.5m min. in length; 1/5 below ground; 2/3 above ground
moody debits	Pseudotsuga menziasii Populus trichocarpa Acer macrophyllum	22	3.0m • 5.0m in length; 300mm Ø min.
	haldfulp mass Hookar's willow Indian plum oceanigmy Pacific deleark rail deleareny red-citer degenoid salmonikeny snowbany solut anag	habitip mae Honkar's willow Safi hookerture Indian plam Osmannia ceessformis oceansprey Holodiscus discolor Pacific rishelan's Plysocarpus capitatis met deferberry Sambusus ancerose red-celler dropsord Comus shorters Autoris approachist saftmankerry Symphonicarpus abus saft Gestivers arealist saft Gestivers arealist saft No. 15% composition of the following nag Wis. 15% composition of the following	habitip mae Rosa gymnosapya 166 Horkur's villinv Soit hoskerlane 58 Indian plam Oumannia consultomia 68 oceangrey Historiacus discolor 71 Pacific riskerisk Piyanosayus caphatus 46 met délarheny Sanchusus ancenosa 51 red-caller dropsood Comus altolorifera 63 salmorateny Publus gynnolorispos albus 126 sald Symphoriospos albus 127 sald Gestherins shallon 127 sald Mr. 15% composition of the fell-wings 7

GENERAL LANDSCAPE SPECIFICATIONS

- 1. Plant material and the planting of such material are to be in accordance with the Billich Colambia Landscape Standard (severah cellium) philip published by the Billich Colambia Sodely of Landscape Architects and the Billich Colambia Landscape Navaray Association.

 2. All works are the conducted in accordance with the sediment control provisions of the "Land Development Guidelines for the Procedum of Aquatel-Initiation (Party Authorities VI) of Environment and Fibrielss and Oceans Carrado.

 3. All plant materials to be impacted and approved by Enrichment plant in Initiation. Oceans Carrado.

 4. Government of the Colambia Society of Colambia Society (Society medium to be the feed any substant, most point sight, such materials, stone over 30 mm ollamber, foreign alphot, stop process on and 4th greatly of 1,55 to 125, Ordering medium to be impacted by Emdowskip for the placement.

 5. All blackborn (Pichous discours and R. Jackbiston) be diseased and greated from project sigh.

 6. All selection store cases material for materials expensive or so be collected and disposed office in coordance with all regulatory regulatory regulators.

- 7. All exposed solls to be seeded with 'meadow mit's as per City of Surrey Parks Recreation and Culture Standards Construction Documents.
- 7. All append ratio to be seeded with friendation with a specificity of Sovery Petris Recreation and Claims Standards Controlation to Co. All assessmentation (Traple ration) are not to be planted.
 9. The controlation to provide three City years of plant materianance. Plant materianance is in hadden extending, selective proving and descring of listachesiny. Specificial proving it is not provided to the provided provided to the provid

- 1. File No. JS13123_PER. "Survey Plan of Ribarian Areas and Legal Lot Boundaries of Lot 22 Plan 7418 and Lot "A" and "B" Plan 17785 Section 6 Township 7 New Westminster District". November 26, 2013. Onderwater Land Surveying Ltd.
- 2. Email: Douglas Phase 3 Civil Onsite Servicing CAD (Preliminary) dwg. Received December 05, 2013; Aplin and Martin Consultants Ltd.
- 3. 2011 Legal Base from City of Surrey.



N.T.S.

DAWSON & SAWYER

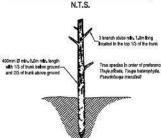
DEVELOPMENTS (DOUGLAS) LTD.

246, 260 AND 276 - 171 STREET

Surrey, BC

ing buried within soil to depth equal

TYPICAL SNAG PLACEMENT DETAIL



envirowest consultants inc.

office: 604-944-0502 facsimile: 604-944-0507

Suite 101 - 1515 Broadway Street Port Coquitiam, British Columbia Canada V3C 6M2 www.envirowest.ca

LANDSCAPE PLAN **DETAILS AND SPECIFICATIONS**

RWS CEV As Shown December 16, 2013 OO REMINION DATE: 1686-06-02