

## Duplex & Coach House Development

March 11, 2013

Submission Revised to reflect December 13, 2012 Design Review Committee comments and subsequent Planning Staff comments during January and February 2013

Rezoning & Development Permit Application – The Corporation of the District of West Vancouver Presented By: Procon Projects Ltd. Designed By: Mason Kent Design Inc.

Table of Contents	1
Letter of Introduction	2
Site Location & Amenities	3
Design Objectives	4
Building Design	5-8
Greening & Sustainability	9-10
Context in Community	11-12
Landscape Design	13-20
Drawings	21-33

### **PROCON**

### **Procon Projects Ltd.**

Construction & Project Management

October 18, 2012:

(Submission revised to reflect comments from Planning staff December 5, 2012)

February 28, 2013:

(Submission revised to reflect December 13, 2012 Design Review Committee comments and subsequent Planning staff comments during January and February 2013)

Attention: Mr. Stephen Mikicich, MCIP Senior Community Planner District of West Vancouver 750 17<sup>th</sup> Street, West Vancouver BC V7V 3T3

Reference: Development at 2074 Fulton Avenue.

Procon Projects Ltd. is pleased to present this revised submission for the Zoning Amendment and concurrent Development Permit Application for the above referenced property.

The design of this development has evolved from the District's Policy Section "Built Form and Character" and design guidelines previously approved under CD 47 for Hollyburn Mews, which addresses possible densities, setbacks and parking considerations. The design additionally reflects comments received from the Design Review Committee at the meeting of December 13, 2012, and subsequent comments received as a result of further meetings with the Planning Department during January and February 2013.

Procon Projects Ltd. has been building single and multi family residences since 1991, and has worked extensively in the Districts of North and West Vancouver. We are proud to have an excellent working relationship with the Planning, Engineering and Building department staff in both communities. Our design initiatives within the community over the years have been to create homes that provide a unique contemporary character that complements the "West Coast" theme coveted by so many purchasers.

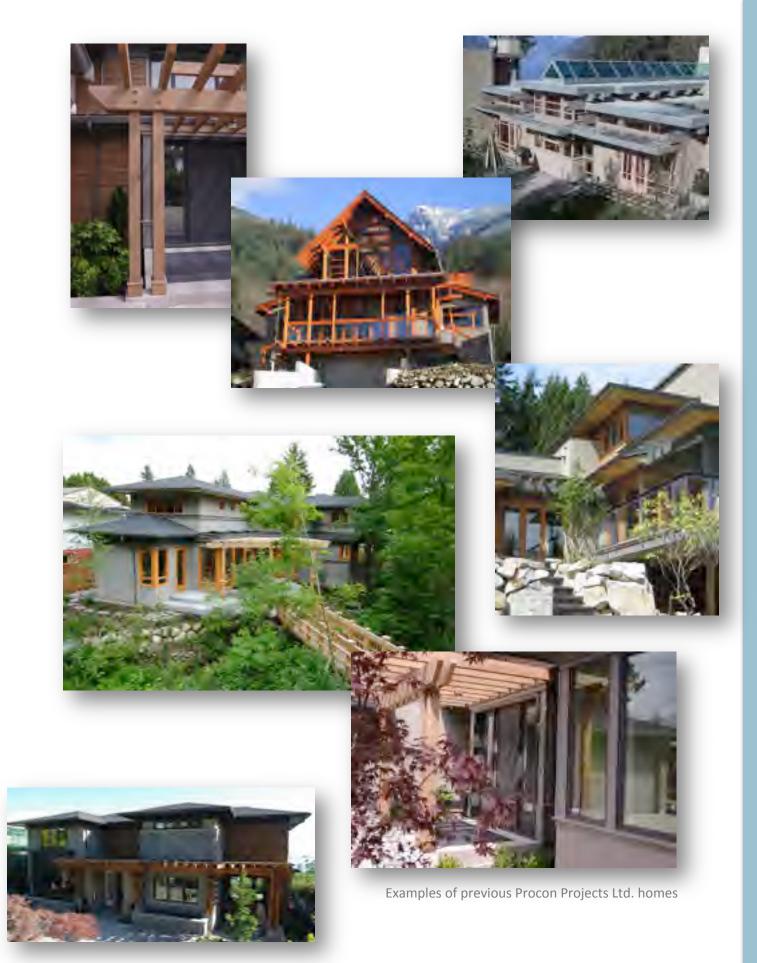
Mason Kent Design Inc. has worked extensively in the same communities and has teamed up with Procon Projects Ltd. on more than ten occasions to produce some highly regarded contemporary designs. We are pleased to be working with Mason Kent Design on this project, and his design for this site addresses the requirements for infill housing units within an established neighbourhood.

The landscape design is presented by Forma Design Inc. under the attention of Mr. Bill Harrison who has had significant experience in the District with similar sensitive designs. The landscape design focuses on the following elements- the pedestrian flow on site, the management of rainwater in order to meet infiltration/retention requirements, and the use of low impact planting material to reduce irrigation requirements.

Horizon Engineering has been retained to design the rainwater retention/infiltration system which will ensure there is zero excess storm water leaving the site when compared to the existing site.

We look forward to continuing our good working relationship with staff at the District of West Vancouver and in particular to creating new and exciting alternatives for the people of West Vancouver to choose from.

Yours truly, Andrew Kennett P.Eng.



1



West Vancouver Rec Centre

## Project Site

2074 Fulton Avenue, West Vancouver BC



West Vancouver Senior Centre



Hollyburn Mews development



### Architectural Character

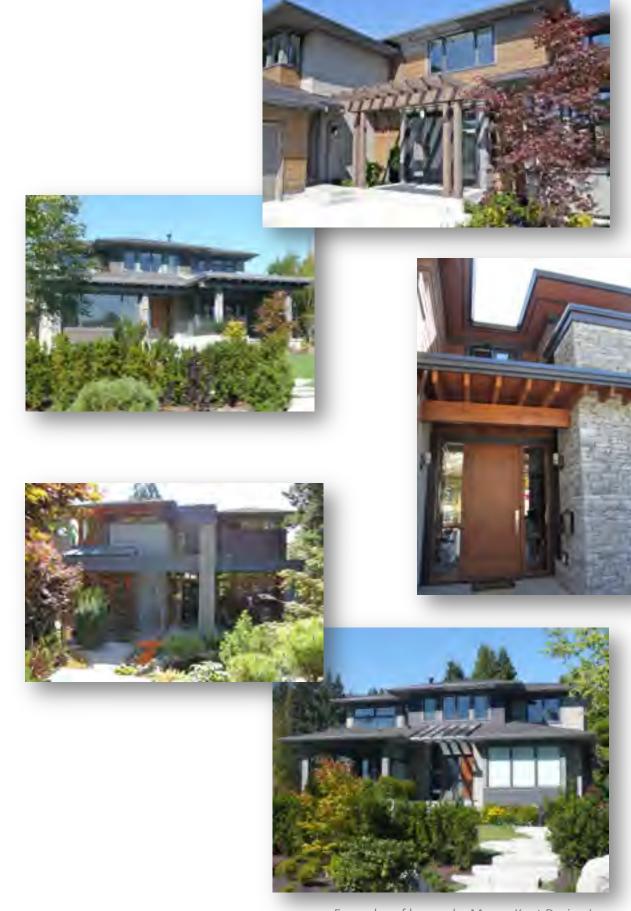
West Vancouver has a wide variety of architectural styles in its current housing inventory ranging from old timer cottages through a collection of modernist houses of the mid-century and on to a mixed variety of larger traditional form homes of the last few decades. We, as active professional designers and builders in this community, have sensed an emerging trend in market place over the last several years towards a cleaner lined, more modernist concept of design. We also recognize the changing demographics of the local population requesting "down-sized", lower maintenance and less costly housing.

With these facts as our inspiration, our intention is to create thoughtful and elegant housing designs to compliment modern lifestyles. Through the use of simple and pleasing building massing, open and functional floor plans and natural exterior finishes we endeavour to reflect qualities from the west coast modern ideals while retaining the functional, liveability aspects of the more current housing designs.

All three units are approximately the same floor area of around 1,500 square feet on the main and upper floors plus approximately 800 square feet in the basements. Each unit is ground oriented and will have a distinct and separate entry point creating an individual home atmosphere. They will each have usable outdoor spaces with southern exposure, privacy, space for outdoor furniture and allowance for individual garden or vegetable plots.

The floor plans feature two bedrooms with en-suite bathrooms on the upper floor, open styled living space, a separate study on the main floor, and flexible space in the basement which could be used for storage, hobbies, media entertainment or games. A single enclosed garage is provided for each unit. The lane house is connected internally to the garage and the duplex units each have a separate path to their access doors.

The landscape design provides access by pedestrians from both the lane and Fulton Avenue. Garage access connect the duplex units to the lane and the lane unit has access directly from its private patio.



Examples of homes by Mason Kent Design Inc.

### Front Elevation – Fulton Avenue



### Rear Elevation – Lane View





Lane view from the southwest



Lane view from the southeast

Sand float acrylic stucco Benjamin Moore – HC105 – Rockport Grey

# Courtyard Elevations



Stained cedar siding CBR Products – SLT – Mushroom 337

# Project Statistics

BASED ON CD-47 ZONE	
LEGAL DESCRIPTION: LOT 3 OF LOT 7, BLOCKS 7-12, D.L. 775, PLAN 4595 P.I.D. 011-469-137	
LOT AREA: 7,529.00 S	Q FT
SITE COVERAGE:	
BUILDING FOOTPRINTS INCLUDING GARAGES: 3,129.50 S OTHER PROJECTIONS 20.20	Q FT
TOTAL 3,149.70 S SITE COVERAGE RATIO 0.42	Q FT
BUILDING AREA:	
UNIT 1	
BASEMENT 779.7 (EXEMPT) 0.00 MAIN FLOOR 775.20 UPPER FLOOR 723.20	
1,498.40 S	Q FT
UNIT 2  BASEMENT 782.70 (EXEMPT) 0.00  MAIN FLOOR 769.60	
UPPER FLOOR	O FT
UNIT 3	٠
BASEMENT 830.10 (EXEMPT) 0.00	
MAIN FLOOR 809.00 UPPER FLOOR 737.90	
1,546.90 S	Q FT
BASEMENT AREA PROJECTING BEYOND FLOORS ABOVE 38.70	
3 SINGLE PARKING GARAGES 737.00 SQ FT (EXEMPT) 0.00	
TOTAL COUNTABLE AREA 4,583.70 S	Q FT
FLOOR AREA RATIO 0.609	
BASEMENT AREA CALCULATION:	
TOTAL BASEMENT FLOOR AREA 2,392.50 S EXEMPT AREA: (GRADE IS LESS THAN 2' BELOW CLG) - 2,392.50	Q FT
REMAINING AREA: 0.00 S	Q FT
BUILDING HEIGHTS:	
NORTH DUPLEX BUILDING	
MID- HEIGHT OF PITCHED ROOF 116.71 F	
LOWEST AVE. GRADE (NATURAL GRADE) 93.95 F	
BUILDING HEIGHT 22.76 F	т.
ALLOWABLE BULDING HEIGHT 25.00 F	т.
LANE UNIT BUILDING MID- HEIGHT OF PITCHED ROOF 112.79 F LOWEST AVE. GRADE (FINISH GRADE) 91.65 F	
BUILDING HEIGHT 21.14 F	т.
ALLOWABLE BULDING HEIGHT 25.00 F	т.

	D-47 ZONE	METR	<u>IC</u>		
LEGAL DESC		LOT 3 OF LOT 7, BL0 P.I.D. 011-469-137	OCKS 7-12, D.L. 77	5, PLAN 4595	
LOT AREA:					699.47 M2
SITE COVER	AGE:				
	BUILDING FOOTPRINT		GES:	_	290.73 M2 1.88
	TOTAL			_	292.61 M2
	SITE COVERAGE RAT	10			0.42
BUILDING AF	REA:				
UNIT 1					
	BASEMENT	72.43	(EXEMPT)	0.00	
	MAIN FLOOR			72.02	
	UPPER FLOOR		_	67.19	139.20 M2
UNIT 2					100.20 102
	BASEMENT	72.71	(EXEMPT)	0.00	
	MAIN FLOOR			71.50	
	UPPER FLOOR		_	67.83	139.32 M2
UNIT 3					139.32 WZ
	BASEMENT	77.12	(EXEMPT)	0.00	
	MAIN FLOOR			75.16	
	UPPER FLOOR		_	68.55	440.74.140
					143.71 M2
	BASEMENT AREA PRO	DJECTING BEYOND F	LOORS ABOVE		3.60
3 SINGLE PA	ARKING GARAGES	68.47 M2	(EXEMPT)	_	0.00
TOTAL COU	NTABLE AREA				425.83 M2
	FLOOR AREA RATIO				0.609
	AREA CALCULATION:				
BASEMENT					
BASEMENT	TOTAL FLOOR AREA				222.26 M2
BASEMENT	EXEMPT AREA: (GRAI	DE IS LESS THAN 2' E	BELOW CLG)		222.26
BASEMENT		DE IS LESS THAN 2' E	BELOW CLG)		
	EXEMPT AREA: (GRAI REMAINING AREA:	DE IS LESS THAN 2' E	BELOW CLG)		222.26
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BUILDING HI	EXEMPT AREA: (GRAI REMAINING AREA: EIGHTS: DUPLEX BUILDING MID- HEIGHT OF PITC	HED ROOF	<u> </u>		222.26 0.00 M2 35.57 M
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BUILDING HI	EXEMPT AREA: (GRAI REMAINING AREA: EIGHTS: DUPLEX BUILDING MID- HEIGHT OF PITC	HED ROOF	<u> </u>	· -	222.26 0.00 M2 35.57 M
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BUILDING HI NORTH I	EXEMPT AREA: (GRAI REMAINING AREA: EIGHTS: DUPLEX BUILDING MID- HEIGHT OF PITC LOWEST AVE. GRADE BUILDING HEIGHT	HED ROOF E (NATUR	<u> </u>	 - -	222.26 0.00 M2 35.57 M 28.64 M 6.94 M
BUILDING HI NORTH I	EXEMPT AREA: (GRAI REMAINING AREA: EIGHTS: DUPLEX BUILDING MID- HEIGHT OF PITC LOWEST AVE. GRADE BUILDING HEIGHT ALLOWABLE BULDING	HED ROOF E (NATUR G HEIGHT	<u> </u>	- - -	222.26 0.00 M2 35.57 M 28.64 M 6.94 M
BUILDING HI NORTH I	EXEMPT AREA: (GRAI REMAINING AREA: EIGHTS: DUPLEX BUILDING MID- HEIGHT OF PITC LOWEST AVE. GRADE BUILDING HEIGHT ALLOWABLE BULDING	HED ROOF E (NATUR G HEIGHT HED ROOF	<u> </u>	- -	222.26 0.00 M2 35.57 M 28.64 M 6.94 M 7.62 M
BUILDING HI NORTH I	EXEMPT AREA: (GRAI REMAINING AREA: EIGHTS: DUPLEX BUILDING MID- HEIGHT OF PITC LOWEST AVE. GRADE BUILDING HEIGHT ALLOWABLE BULDING MID- HEIGHT OF PITC	HED ROOF E (NATUR G HEIGHT HED ROOF	RAL GRADE)	· -	222.26 0.00 M2 35.57 M 28.64 M 6.94 M 7.62 M

### Greening & Sustainability

The District, in their policy guidelines, has requested that property developers address issues around sustainability and "Green" measures which address energy conservation and reduction of greenhouse gas emissions.

We are proponents of good building practice leading to energy efficiency of our homes. Our staff has been educated through the Home Warranty Builders Educational sessions and understand the implications and benefits of sealing a building to a high level of air tightness with subsequent integration of air exchange systems.

The AIBC news states that, "The Province of British Columbia has announced a delay in the anticipated release of the revised provincial codes. New editions of the BC Building Code, BC Plumbing Code and BC Fire Code (the "BC Codes") are generally adopted by government in the year following the release of the new edition of the National Building Code. Thus, many in the industry have been anticipating the release of the BC Codes in the spring of 2011. However, the new National Building Code contained more than 850 changes, with some of the more substantial ones requiring further analysis. As a result, the province will be publishing the next editions of the BC Codes in the spring of 2012 with an effective date in the fall of 2012."

The Building and Safety Standards Branch of the Ministry of Energy and Mines is responsible for stewardship of the development and application of the BC Building Code. The new BC Building Code will be issued in the fall of 2012, with an amendment expected in early 2013. The amendment will encompass "Green" initiatives which are currently undergoing public consultation. This project will most certainly fall under the new Building Code and the subsequent greening requirements, thereby raising the standards from the current 2006 code.

Specifically, we will incorporate the following "Green" technologies and methods:

#### **Heating System:**

To achieve maximum comfort and energy efficiency for the homeowner we propose an in- floor radiant heating system, using a high efficiency boiler. The boiler will also heat the domestic hot water through an indirect hot water tank.

These systems are highly efficient. The hot water tank does not have its own direct source of heat (burner) as it is heated with a coil taken from the boiler. This not only provides a highly efficient heat exchange system for the domestic water (approximately 80% efficient versus 60% for conventionally direct vented hot water tanks) but also significantly extends the life of the hot water tank as there is no direct burner within the unit. The hot water tank itself does not require a vent to the exterior- only the boiler is vented, which results in one less penetration through the building envelope.

#### **Heat Recovery Ventilation System:**

A Heat Recovery Ventilation system will be installed. As building efficiency is improved with insulation and weather stripping, buildings are intentionally made more airtight, and consequently less well ventilated. Since all buildings require a source of fresh air, the need for HRVs has become obvious. While opening a window does provide ventilation, the building's heat and humidity will then be lost in the winter and gained in the summer, both of which are undesirable for the indoor climate and for energy efficiency, since the building's HVAC systems must compensate. HRV introduces fresh air to a building and improves climate control, whilst promoting efficient energy use. This drastically increases the energy efficiency of the home as required fresh air is circulated through a heat exchanger prior to entering the home. Outgoing stale air exchanges its heat with the incoming fresh air.

#### Other items Include:

Programmable timers with motion sensors for exterior lights

No pot lights in upper floor insulated ceilings (Pot lights in insulated ceilings generally result in penetrations/weakness in the vapour barrier)

Non solvent based damp proofing

Deck or veranda surfaces made from sustainable concrete products

Manufactured wood products used for floor system, beams and headers instead of conventional lumber

All sill plate sealed with foam seal gaskets or acoustical sealant to minimize air leakage

Non HCFC expanding foam around all window and door opening, and at joist ends Attached garages fully insulated providing a buffer between the exterior and the interior spaces

Minimum 25 year manufacturer warranty roofing material

MDF Casings and baseboards (not solid wood)

Rough-in plumbing and structure for future roof-mounted solar collector panels An engineered storm-water management plan to minimize impact on municipal services

Native species landscape planting selected to minimize watering requirements





### **GREENING YOUR HOME & PROPERTY: CHECKLIST**

Please attach any additional comments and/or documentation if pertinent.

What is your target ENERGUIDE rating?	As required by 2012 Building Code
---------------------------------------	-----------------------------------

Have you scheduled your ENERGY AUDIT? If YES, Indicate Date Here:

	PLEASE CHECK YES OR NO:		
BUILDING ENVELOPE		YES	NO
INSULATION:	2 x 6 wall construction and high-density batt insulation to achieve in-wall-cavity insulation value of RSI 3.85 (R22)	Х	
WINDOW PERFORMANCE:	Maximum thermal conductance (U value) of 2.00 W/K•m²) (Energy Star labelled)	X	
ENERGY EFFICIENCY		YES	NO
LIGHT FIXTURES	install fixtures that do not accept incandescent or halogen bulbs in all non-living spaces (e.g. hallways, storage areas, patios, etc).	Х	
ENERGY CONSUMPTION DISPLAY	Energy usage display meter capable of calculating & displaying electrical consumption on all least a monthly basis.		х
FIREPLACES	[No wood burning freplaces.] Gas-fuelled fire places have electronic ignitions; are direct vented.	х	
HOT WATER	Electronically powered hot water tanks are insulated to provide min RSI 1.76 <b>OR</b> on-demand hot water heater is installed.	See D	Dialogue
BUILDING ORIENTATION	Building is oriented for solar design and/or supports passive solar heating. See ideas 3heef for details.	Site si restric	ize ts optic
WATER CONSERVATION		YES	NO
FIXTURES & TOILETS	Low flow water fixtures, including dual flush design toilets, with max single flush consumption of 6 Litres.	Х	
INDOOR ENVIRONMENTAL	QUALITY	YES	NO
HEAT RECOVERY VENTILATOR	Installation of a heat recovery ventilator. (Certified by a HRAI or HVC certified installer to meet CSA standards.)	х	
CONSTRUCTION WASTE M.	ANAGEMENT	YES	NO
WASTE MANAGEMENT PLAN	Construction waste mgmt plan prepared and submitted. Target min 50% waste reduction: diversion rate to be documented, with disposal receipts.		e will be d onsite

**Transfer Station** requirements

Document # 425985v2

Greening Your Home & Property Checklist June 25, 2012

"FUTURE PROOFING" YOU	RHOME	YES	NO	
PRE-PIPE FOR ROOF MOUNTED SOLAR	Vertical service shaft extends from water heafer room to affic space (min 2 50mm pvc pipes, capped at both ends, ≥20° angle.	Х		
PRE-WIRE FOR ELECTRIC VEHICLE(S)	Cable raceway leading from electricity circuit panel to enclosed autiet bax in garage or carport.	Х		
SENSITIVE SITE DEVELOPM	ENT	YES	NO	
STORMWATER MANAGEMENT	Permanent, low-impact development (UD) measures installed to manage stormwater run-off at pre-development rates.	Х		
	No invasive' plant species are introduced to the landscape	Х		
	Established plant materials to have low water requirements <sup>2</sup>	Х		
	Storage tank or rain barrels for refaining rainwater for irrigation	Low ir will be	npact pla used	ant
MINIMIZE SITE	Tree Preservation Plan prepared and submitted <sup>3</sup>	Х		
DISTURBANCE	1 tree; four 5 gal (or equiv) shrubs; or 4.6m² groundcover per 46m² of unpreserved lot area.	Х		
	Drought tolerant turf and/or landscaping species	Х		
	Mulch <sup>a</sup> or soil amendments added as appropriate	Х		
	Topsoil maintained or enhanced to a minimum depth of 12inches	Х		
REDUCE LOCAL HEAT ISLAND EFFECTS	One or both of the following:  Trees or other plantings provide shade to ≥50% of hard surfaces within 15m of home  Light coloured materials for ≥50% of hard surfaces (e.g., white/grey concrete; open pavers; vegetated roof to cover garage and/or accessory buildings.	Х		





I Invasive plant species vary by region. Consult the Canadian Botanical Conservation Network invasive plants list for your area:

http://www.rba.co/cbcn/en/projects/invasives/i list.html

2 Visit www.gehvohersmart.com for water-conserving landscaping fips

3 A sample Tree Preservation Plan can be found at: http://www.portlandonline.com/bds/index.clm%&a=72537

4 Mulch is as a covering placed around plants to reduce erosion and water loss and to help regulate soil temperature. Upon decomposition, organic mulches serve as soil amendments.



Neighbour across the street: 2093 Fulton Avenue



Neighbour across the street: 2077 Fulton Avenue



Neighbour across the street: 2065 Fulton Avenue



West next-door neighbour: 2076 Fulton Avenue



## Project Site

2074 Fulton Avenue, West Vancouver BC



East next-door neighbour: 2040 Fulton Avenue



Rear neighbour: Hollyburn Mews development – view from Esquimalt Avenue



Rear neighbour: Hollyburn Mews development – view from lane



## Landscaping Concept

The goal of the landscape concept is to create an attractive, cohesive design that compliments the character and suits the scale of the existing neighbourhood.

A new gravel walk is being proposed at the curb along Fulton Ave. to provide safe and unobstructed pedestrian access along the street edge. The boulevard will be landscaped to meet DWV standards and enhance the overall streetscape of Fulton Ave.

The mature, high quality Japanese maple at the north side of proposed Unit 2 is to be retained. This tree will help maintain the scale and integrity of the existing neighbourhood streetscape. Every effort will be made to protect it during construction, including regular monitoring by an arborist.

Additionally, each unit has been provided with pedestrian access to the lane, a critical link that will improve both the livability of the units and the quality of the lane edge. The lane is also being enhanced with on-property planting that will green the edge and improve the pedestrian experience of the lane in the future.

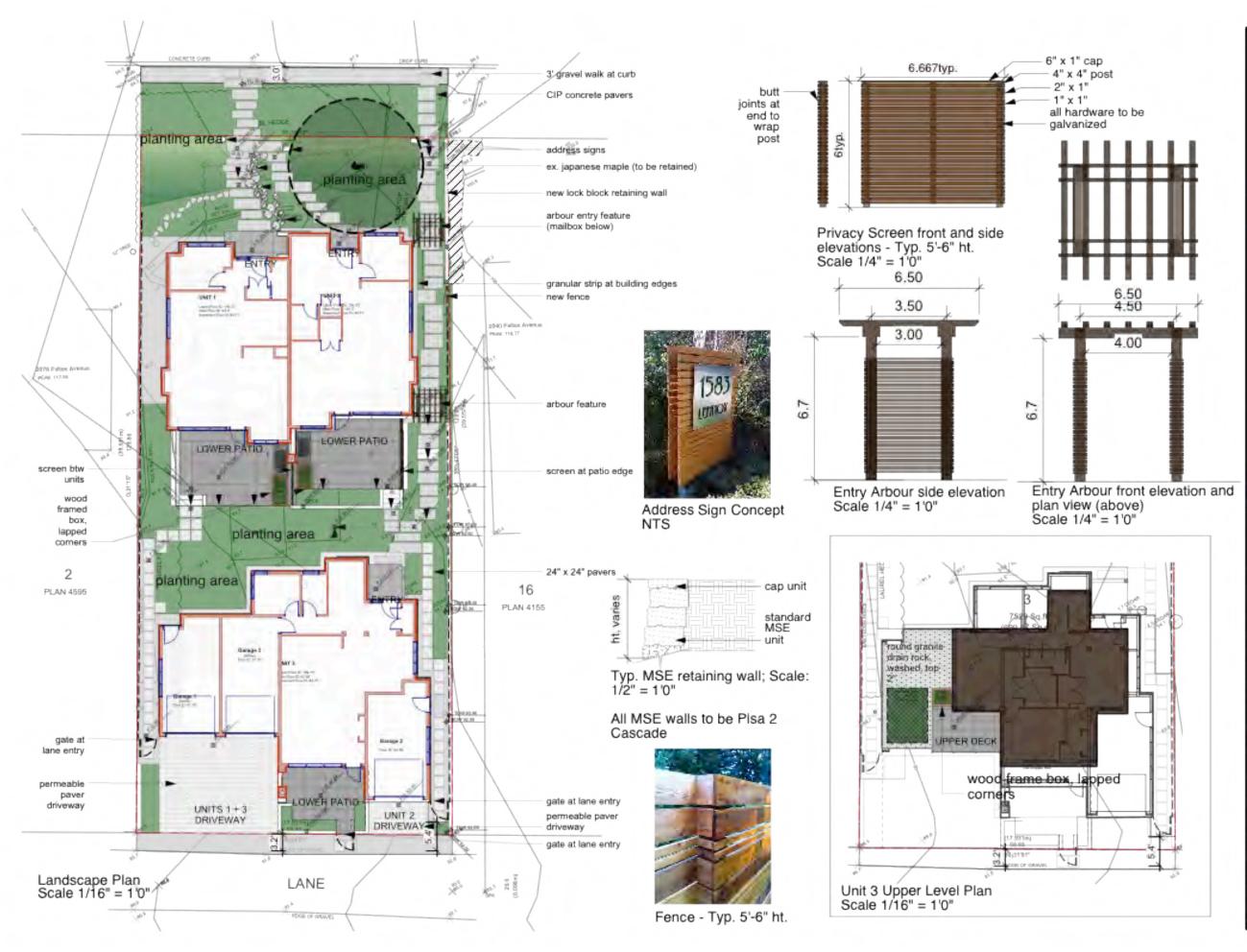
Each unit has been provided with important amenities that encourage an active, outdoors-oriented lifestyle. These amenities include: bicycle storage, individual urban agriculture/garden plots, and integrated outdoor living spaces.

Storm water management facilities have been accommodated on site. Additional measures have been taken to increase site permeability and minimize the use of potable water for landscape irrigation on site. A drought tolerant plant palette will be used with high efficiency irrigation incorporated into the design if required.

Driveways will be permeable pavers while other hardscape areas will drain to the site landscape. The application of a green roof on the coach house is being explored to address sustainability, aesthetics, and livability for residents of the proposed project and site neighbours.

Finally, following assessment by an arborist and based on an existing agreement with the neighbour to the east, invasive species and dangerous trees will be removed from the site (see the arborist's report). Diseased plant material will also be removed from the site and disposed of properly. One specimen quality tree that cannot be accommodated on site will be offered for relocation (see arborist report).





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209-828 Harbourside Dr. North Vancouver British Columbia Canada V7P 3R9 tel 604-966-9193 fax 604-966-7320

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1 October 12, 2012 - for exam-2 Dec 2012 - to propose 3 Dec 2012 - to propose 4 No. 2012 - to automore 4 No. 2022 - to automore

LANDSCAPE LAYOUT PLAN + DETAILS

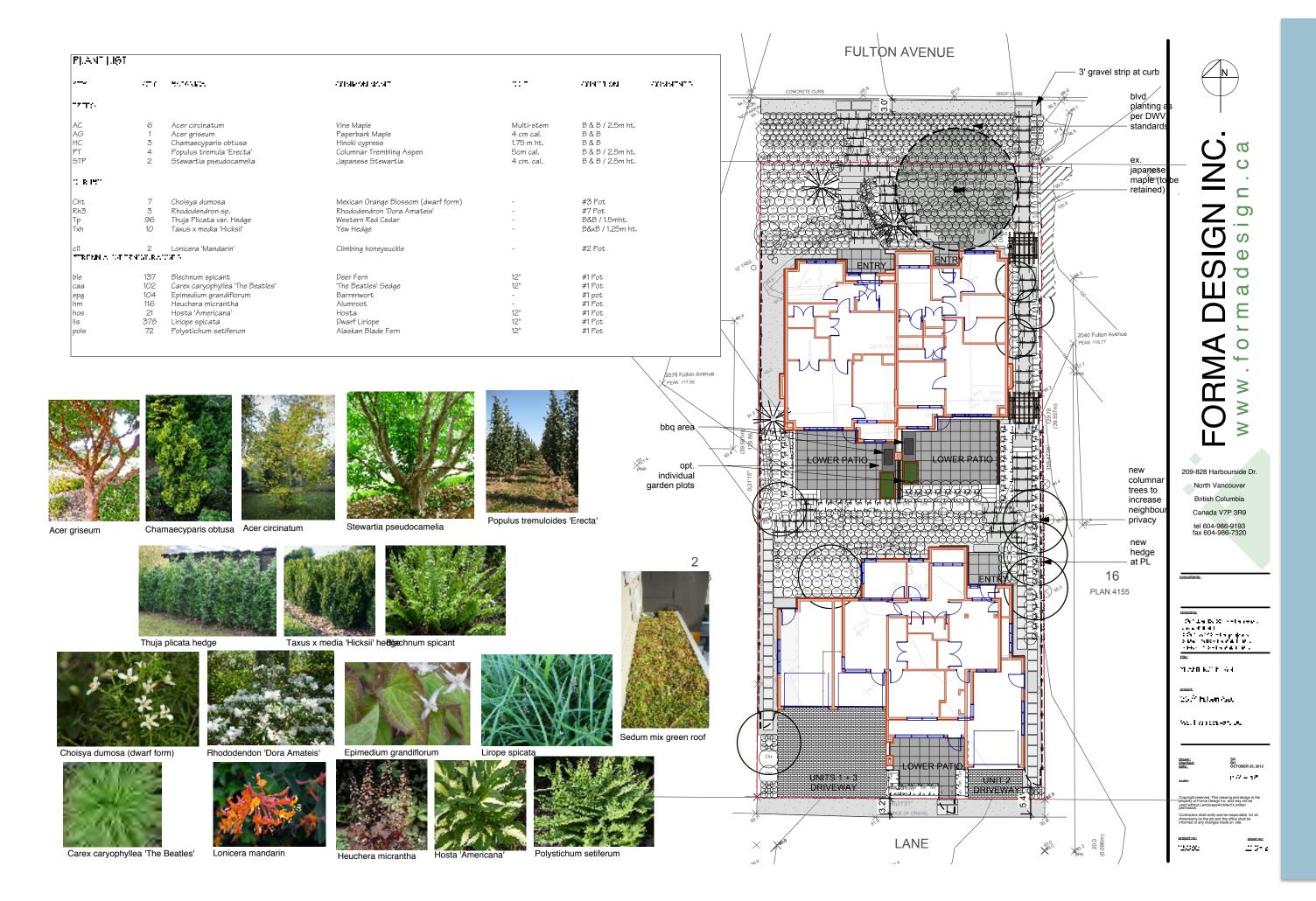
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OUR FILE: 12256



Attn.: Andrew Kennett
Procon Projects Ltd
c/o Forma Design

Suite 209 - 828 Harbourside Drive North Vancouver BC V7P 3R9

ACL File: 12256

cc:

Project Ref: 2074 Fulton Avenue West Vancouver

**Proposed Multi-Family Development** 

Re: Tree Retention Assessment Report

Dear Mr. Kennett,

Arbortech Consulting Ltd has been retained to undertake a detailed study of the existing trees located on and within close proximity to the above noted site to determine their current condition, and to make preservation and protection recommendations in context to the proposed development.

Staff from this office visited the site on October 9 2012 to inspect the trees and predevelopment site conditions. The topographic plan and the conceptual architectural layout plan for the development project have been provided for our use in completing this report. The purpose of this study is to;

- **a)** Determine the condition of the existing tree resource and compile an inventory that meets the municipal requirements for reporting,
- **b)** Determine which trees are viable for retention consideration,
- c) Determine if any off-site trees are expected to be impacted from construction,
- **d)** Guide the approval and design revision process to the extent possible so that tree retention and tree replacement objectives are achieved, and
- **e)** Specify tree protection and impact mitigation recommendations for implementation in the construction process.

The tree condition data and tree retention recommendations are compiled herein and on the enclosures. This report should be read in conjunction with the **Tree Retention Drawing** attached.

### **METHODOLOGY**

Using our standard inventory and analysis procedures, all significant trees located on or within close proximity to the development site have been assessed using Visual Tree Assessment (VTA) procedures. Photos were taken and are used herein and/or kept on file. Please note that this study is not a certified tree risk assessment (CTRA), however some trees may pose a risk to the site or surrounding lands. Within the tree inventory we present tree specific data and observations relevant to the land use that is proposed. We have rated the condition of the trees based on health and structural factors as



PROCON PROJECTS – FORMA DESIGN PROPOSED MULTI-FAMILY DEVELOPMENT 2074 FULTON AVENUE WEST VANCOUVER BC TREE RETENTION ASSESSMENT REPORT

determined from our VTA, which guide us in determining the suitability for retention in the proposed land use. We have considered those findings in our review of the current project design, and developed a recommended tree retention strategy. The tree retention scheme can be revised, however tree protection setbacks should be determined by this office if any additional trees are selected for retention.

#### PROPOSED LAND USE

The proposed development consists of two buildings with three residential units. The associated re-grading of the lands, the construction of new underground services/utilities, and the construction of the buildings/driveways and related amenities will result in comprehensive disturbance across most of the site. With due consideration to the tree retention suitability findings, tree retention opportunities on this site are restricted and limited to the only those trees in suitable condition, and located in an area of the site where disturbances to the roots and crowns can be adequately moderated and/or mitigated. In this project, working space for excavation and site access is required from the rear lane. The front yard is the only area where space may available for tree protection.

Tree retention will only be successful if the trees can be protected to meet the alignments of and restrictions within the TPZ's as noted on the Tree Retention Drawing attached. Please refer to that drawing for the tree locations and TPZ information in relation to the proposed development concept. Our plan is based on the current project design that was available at the time of writing. The detailed engineering, architectural and/or landscape drawings require coordination with the findings in this report and attachments.

### TREE ASSESSMENT FINDINGS

The site is comprised of a modest single family home with landscaped front and rear yards. A lack of regular landscape maintenance in the recent history is evident. The site slopes generally with a south aspect, but the existing grades of the front driveway and the existing house and road grades at the northeast corner have created an isolated zone of northwestern slope where tree # 1 is growing.

Trees on the subject site consist of the following:

- There are three landscape ornamental trees found on site, one in the front yard and two in rear yard. Two of these trees are in excellent condition while one is marginal due to an inherent structural defect affecting its form.
- In addition, there is a grove of 3 native conifers located in the rear yard, clustered in a co-dominant grove along the eastern property line. Those 3 native conifers are observed to have a history of being topped in the distant past, resulting in the growth of large weakly formed replacement leaders.

Notwithstanding that if the subject lands were not to be developed, it is possible that existing trees could be retained intact, and would survive for many years into the future.

ARBORTECH CONSULTING LTD PAGE 2 OF 7 OCTOBER 12, 2012

PROCON PROJECTS - FORMA DESIGN PROPOSED MULTI-FAMILY DEVELOPMENT 2074 FULTON AVENUE WEST VANCOUVER BC TREE RETENTION ASSESSMENT REPORT

OUR FILE: 12256 PROCON PROJECTS - FORMA DESIGN PROPOSED MULTI-FAMILY DEVELOPMENT 2074 FULTON AVENUE WEST VANCOUVER BC TREE RETENTION ASSESSMENT REPORT

However, the proposed construction works will cause site changes that will either directly conflict or indirectly damage certain existing trees. This retention study considers our arboricultural assessment, our determination of the anticipated impacts from construction, the feasibility of implementing design strategies or innovative construction materials and methods to protect suitable valuable trees. We also consider general landscape management objectives to retain trees that will have reasonable survivorship expectations and that will provide reasonable value (aesthetic and functional) to the site and the community for the long term.

Tree condition ratings are determined by the assessor based on the following:

- Unsuitable denotes a Very Poor condition tree that has advanced health decline or significant structural defects, not to be considered for retention.
- Marginal denotes a Poor condition tree that has a moderate defect that may be considered for retention, but conditional to special measures if the design meets tree protection requirements.
- **<u>Suitable</u>** denotes a tree in Fair to Good condition with no identifiable significant defects with retention conditional to the design accommodating tree protection requirements.

The recommended *Retain* trees as noted in the **ACTION** column are designated as such pursuant to the TPZ restrictions and alignments, and with any special measures noted herein or on the attached **Tree Retention Drawing**. The Remove trees are designated as such because the current project design does not afford sufficient aerial or root protection space to accommodate their retention. Unless the design can be revised to meet the restrictions and alignments of a TPZ, then they are proposed to be removed to accommodate the development. These findings are conditional to city permitting and/or other required approvals.



Table 1. DETAILED INVENTORY AND RETENTION ASSESSMENT OF ON-SITE TREES

TAG #1	DBH <sup>2</sup>	HT <sup>3</sup>	SPR <sup>4</sup>	SPECIES	CONDITION	ACTION	RATIONALE	TPZ
01	26	8	4.5	Acer palmatum	Suitable	RETAIN	Specimen quality tree in front yard.	See Plan

- Specimen quality tree in excellent condition.
- This tree is slightly asymmetric with bias toward the south, and it has exposed roots on the sloped growing site. A portion of the root zone is covered with asphalt driveway on the east side, and hedge plants are growing within the northern interface.



OUR FILE: 12256

02	23	8	2.8	Maanolia	Suitable	Remove	Located in footprint	Ī
02	25	0	2.0	grandiflora	30110016	Kemove	of proposed building.	

- This is a specimen quality tree in excellent condition.
- While it is in the large size category, it may be possible to transplant this tree. In order to be successful, it should be moved only once. Since there is insufficient space on this site to accommodate the tree, perhaps it could be offered for rescue by others at their own cost.



OCTOBER 12, 2012

ARBORTECH CONSULTING LTD PAGE 3 OF 7 OCTOBER 12, 2012

<sup>1</sup> TAG # denotes the serial numbered tag affixed to the trunk (or reference ID on off-site trees).

<sup>&</sup>lt;sup>2</sup> **DBH** denotes the diameter of the trunk, measured in cm as per arboricultural standards.

<sup>&</sup>lt;sup>3</sup> HT denotes the height of the tree measured in metres

<sup>&</sup>lt;sup>4</sup> **SPR** denotes the radius, measured in m, of the furthest reaching branches and foliage (i.e. dripline). ARBORTECH CONSULTING LTD PAGE 4 OF 7

PROCON PROJECTS – FORMA DESIGN PROPOSED MULTI-FAMILY DEVELOPMENT 2074 FULTON AVENUE WEST VANCOUVER BC TREE RETENTION ASSESSMENT REPORT

26

03

72

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Due to condition and

due to conflict with

proposed building.

PROCON PROJECTS – FORMA DESIGN PROPOSED MULTI-FAMILY DEVELOPMENT 2074 FULTON AVENUE WEST VANCOUVER BC TREE RETENTION ASSESSMENT REPORT

 05
 88
 26
 6
 Thuja plicata
 Unsuitable
 Remove due to condition and due to conflict with proposed building.

 This tree was previously topped and a single stem, weakly attached, carries approximately 50% of the crown. The old topping site may be decayed.

 The replacement leader is spindly, with minimal taper, and the crown is heavy asymmetry toward the east.

• This tree is nearly fully reliant on structural support and wind buffering by the adjacent trees in the grove.

19, 11 10 2.5 Chamecyparis Marginal Remove Located in footprint of proposed building.

- This young tree has a subdominant stem growing from the base of the trunk.
- The crown of the tree is asymmetric toward the southwest due to competition for light with the adjacent tree grove (trees 03 to 05)
- Both defects noted above can be treated if the tree were retained.



See photo for tree 04 above.

OUR FILE: 12256

- Previously topped at two heights and resulting weakly formed leaders have grown.
  - The crown is carried fully by the replacement leaders, and is heavily biased toward the northwest.

Thuja plicata

Unsuitable

Remove

• This tree is nearly fully reliant on structural support and wind buffering by the adjacent trees in the grove.



 04
 68
 28
 6
 Thuja plicata
 Unsuitable
 Remove
 Due to condition and due to conflict with proposed building.

- Previously topped and resulting weakly formed leaders have grown, including marms (vertical limbs) taking on the dominant vertical form.
- The crown is carried predominantly (estimated 75%) by the replacement leaders, and is heavily biased toward the northwest.
- This tree is nearly fully reliant on structural support and wind buffering by the adjacent trees in the grove.

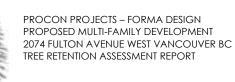


#### Off-Site Tree Notes:

- The shared ownership tree noted above (#5) appears to be jointly owned with the east neighbour. With the following factors considered:
  - a) The removal of the adjacent trees from this co-dominant grove would increase wind exposure,
  - b) The pre-existing structural impairment from historical topping has created inherent weaknesses in its form,
  - c) The root loss expected from the excavation for the new building would negatively affect the tree, and
  - d) The developer intends to access through the root zone for construction purposes. Authorization from that neighbour for its removal is strongly recommended.

ARBORTECH CONSULTING LTD PAGE 5 OF 7 OCTOBER 12, 2012 ARBORTECH CONSULTING LTD PAGE 6 OF 7 OCTOBER 12, 2012

OUR FILE: 12256



- Perimeter hedges will be affected by construction, therefore ownership of those hedges and authorizations from their respective owners should be sought before proceeding with any removals. The bamboo growing in some perimeter areas of the site is invasive in nature, and is extending well into the site. IT should be eradicated via digging the roots out. This would require cooperation with the neighbour(s) to be effective.
- A 30 cm (estimated) dbh Hawthorne tree is located in the front yard of the west adjacent home, directly adjacent the common property line. The recommended minimum setback for excavation disturbance is 1.2m from the property line, and conditional to root pruning being undertaken at the time of excavation. With the building foundation design considered, the available space for root protection is a mere 0.2m from the property line. The result would be the loss of approximately 50% of the root system, destabilizing the tree, and possibly killing it. While the tree is relatively small, it would pose a high risk to persons and property within striking range especially on the west side, the direction it would likely fail toward. The west neighbour should be consulted to consider the removal of this tree. If the neighbour does not approve, then it is recommended that protection be implemented to the 1.2m setback from the property line. If this cannot be achieved, the developer may wish to seek legal advice as to rights and responsibilities relating to the off-site tree.

### **CONCLUSIONS**

We have assessed six existing site trees using VTA procedures, and we have we have determined that three trees are in suitable or marginal condition, and were considered for retention in the proposed land use. In a review of the currently available project design, we have found that one tree can be retained and protected adequately. We have also found that certain off-site trees will require either; permission for their removal, or protection measures to be implemented within the site. Tree replacement will be determined and specified by the landscape architect in coordination with the municipality. Tree protection measures are outlined on the attached drawing for design reference purposes and for implementation during construction.

Thank you for choosing Arbortech for your tree assessment needs. If you require any further information, please call me directly at 604 275 3484 to discuss.

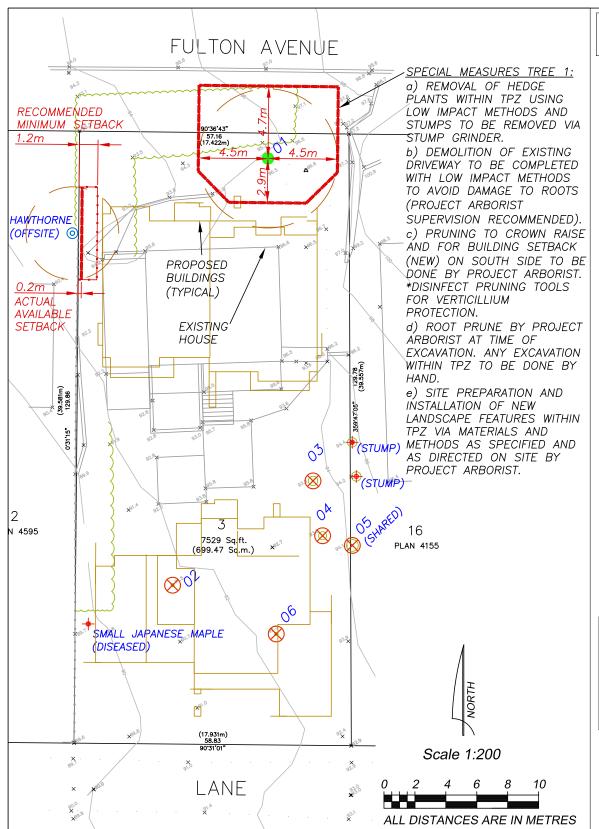
Regards,

Norman Hol,

Consulting Arborist

ISA Certified Arborist #PN-0730, Certified Tree Risk Assessor #0076, Wildlife and Danger Tree Assessor (Parks and Recreation Module)

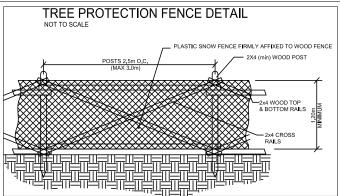
Enclosures; Tree Retention Drawing



Plan Notes:

1. This plan is based on a topographic and tree location survey provided by the owners' Registered British Columbia Land Surveyor (BCLS) and layout drawings provided by the owners' Engineer (P Eng) and/or Design Consultants.

2. This plan is provided for cantext only, and is not certified as to the accuracy of the location of features or dimensions that are shown on this plan. Please refer to the original plans for those purposes.



LEGEND

denotes TREE NUMBER. Refer to tree inventory for type, size and condition data.

denotes small or insignificant tree not considered for retention.

odenotes OFFSITE tree. Refer to Report for recommended treatment. Owner for any proposed action/treatment to off-site trees would be required.

denotes TREE PROTECTION ZONE (TPZ) alignment. Fence to be installed to meet applicable municipal standards. See Tree Protection Notes for restrictions on activities within or in close proximity of TPZ.

denotes tree to be RETAINED.

denotes tree to be REMOVED.

#### **TREE PROTECTION NOTES:**

- a) Tree Protection Zones (TPZ's) alignments are shown on the drawing for reference. These alignments are based on site and tree conditions as determined by the project arborist, and they supersede any other tree protection setbacks provided by others (including city guideline derived setbacks).
- b) Tree Protection Fences (Barriers) must be erected at alignments as shown on the drawing, maintained in good condition until the project meets substantial completion, and the restrictions implemented as per the guidelines herein. The fence construction is to meet or exceed the municipal standards. Tree protection fencing must be inspected and approved by the municipality and/or the project arborist prior to any demolition, site preparation or construction work commencing. Any contemplated changes to the TPZ fences must be approved in advance by the project arborist.
- c) IMPORTANT! If any tree protection fences are aligned with or within close proximity to a Restrictive Covenant, a Property Line, and/or an Environmentally Sensitive or Protected Area, the contractor must undertake a survey of the location of those lines such that the tree protection fence can be installed and inspected accurately.
- d) IMPORTANT! Unauthorized removal of, or damage to retained trees, and/or encroachment into the TPZ may constitute an offence under municipal bylaw provisions, and may be subject to fines, penalties and/or delays in the project. The owner, their contractors or their sub-contractors would be liable for such fines and or any other related costs. Extra costs may include certain remedial treatments to the trees and/or the soil in the tree protection zones as specified by ACL and/or the municipality, tree replacement planting, and/or other measures.
- e) Signs stating "TREE PROTECTION AREA NO ENTRY" should be placed on the tree protection fence at a suitable frequency. If the general contractor or owner has secured a compliance monitoring contract with ACL, we will supply signage with our contact information for reference by the contractors, subcontractors and trades in case they require access therein. It is recognized that certain unpredictable construction conflicts may arise that could interfere with the refention of the selected trees, however any changes to the tree retention scheme are subject to approvals in advance by the project arborist and the municipality. Restrictions may be waived if they are considered by the Project Arborist to be acceptable, and these approvals will be conditional to special measures specified by ACL to protect or enhance the trees, their roots and the soil from damaging impacts.

#### f) Tree Protection Guidelines

Any work activities within TP2's should include the advance approval and the on-site supervision of the project orborist. Supervision and direction on site may be required. The trunks, branches, foliage and roots of retained trees, as well as the soil within the tree protection zones, must not be damaged by construction activities. This includes direct mechanical damage from machinery operation, we as indirect damage such as soil hydrology changes or burns to the foliage from equipment exhaust, etc. Activities within and access to the TP2's are restricted during the site preparation, construction and landscape installation phases of the project as follows (except as approved and directed by the project arborist) as follows:

- removal of trees/stumps from within or directly adjacent to TPZ's is restricted as to method
- no soil disturbance within TPZ's including trenching, excavation, fill placement, etc
- no storage or transport of; soil, spoil, construction materials, waste materials, etc through TPZ
   no concrete, stucco, drywall, paint, etc washed within or adjacent to TPZ
- no passage or operation of vehicles or equipment through TPZ
- no placement of temporary structures or services, etc within TPZ
- no affixina liahts, sians, cables or any other device to retained trees
- no unauthorized pruning or cutting of retained trees. Any pruning or other treatment of a
  retained tree must be completed by a qualified arborist or tree service firm employing ISA
  Certified Arborists, to comply with ANSI A300 standards, and/or under the direction of a
  project arborist from this office.
- excavations adjacent to the TPZ requires attendance/root pruning by the Project Arborist
- g) IMPORTANTI. The landscaping phase is when retained trees can be damaged the most severely. The process of soil placement, grading for hard landscape features(l.e. sidewalks), excavation for retaining wall construction, excavation for fences and landscape features, digging of planting holes for new plants and trees. the digging of trenches for inigation, drainage and lighting, the placement of furl and other finishing works all have a very high potential for tree damage (l.e. root loss, trunk wounds, soil damage affecting tree growth and disease development, etc.), It is vital that the landscape works respect the limitations on activities within the IPZ's, therefore on-site direction by the project arborist is strongly recommended. The landscape contractor should be made aware that any grade changes, including the shallowest of trenches and the thinnest layer of top dressing can be a signified negative impact on existing trees.
- h) Permitting and Regulatory Items. Any tree proposed for removal may be subject to city permitting requirements and conditions, and may require neighbour authorization (i.e. in the case of off-site or shared ownership trees), It is the owners' responsibility to obtain permits and authorizations accordingly. The active nests of protected bird species, and any nest of certain species, are protected by Federal and Provincial laws or statutes. The owner is encouraged to retain a qualified professional (R.P. Bio.) to provide nest assessment and impact mitigation advice as necessary. The recovery and sale of marketable timber from tree removal and/or land clearing will legally require that the owner obtain a Timber Mark. In the Greater Vancouver and Fraser Valley Regions, contact the Chilliwack Forest District office at 604 586 4400.

### TREE RETENTION DRAWING

Client:	PROCON PROJECTS LTD
Project:	PROPOSED MULTI-FAMILY DEVELOPMENT
Address:	2074 FULTON AVENUE WEST VANCOUVER BC
Date:	OCTOBER 12 2012
Our File:	12256



## DUPLEX AND COACH HOUSE DEVELOPMENT

### 2074 FULTON AVENUE, WEST VANCOUVER, B. C.



### **CONTENTS:**

SHT.	1	COVER
SHT.	2	SITE PLAN AND PROJECT DATA
SHT.	3	BASEMENT AND MAIN FLOOR PLANS - (OVERALL SITE)
SHT.	4	UPPER FLOOR PLAN AND ROOF PLAN - (OVERALL SITE)
SHT.	5	SITE SECTIONS
SHT.	6	1/4" SCALE BASEMENT AND MAIN FLOOR PLANS - NORTH DUPLEX UNITS
SHT.	7	1/4" SCALE UPPER FLOOR PLAN AND ROOF PLAN - NORTH DUPLEX UNITS
SHT.	8	1/4" SCALE ELEVATIONS - NORTH DUPLEX UNITS
SHT.	9	1/4" SCALE BASEMENT AND MAIN FLOOR PLANS - LANE UNIT
SHT.	10	1/4" SCALE UPPER FLOOR PLAN AND ROOF PLAN - LANE UNIT
SHT.	11	1/4" SCALE ELEVATIONS - LANE UNIT



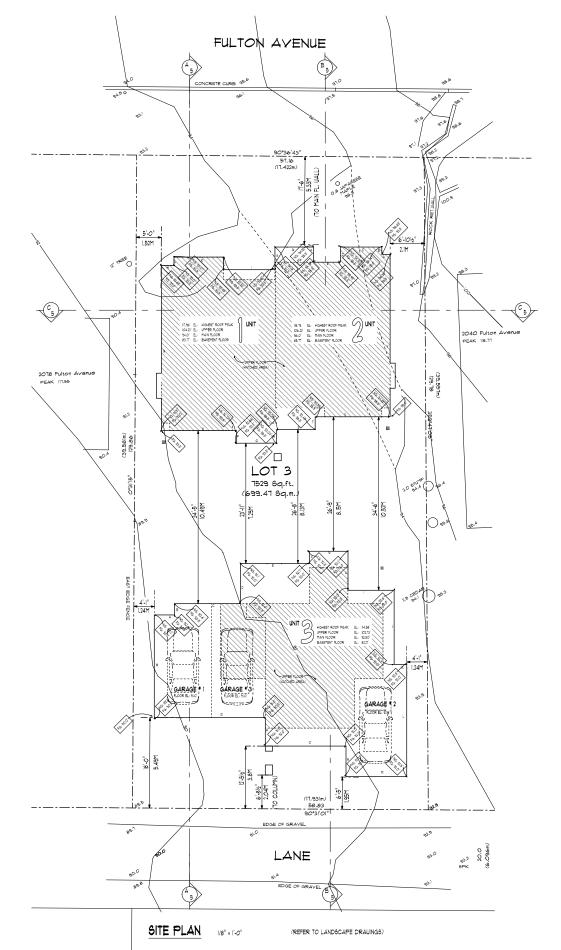
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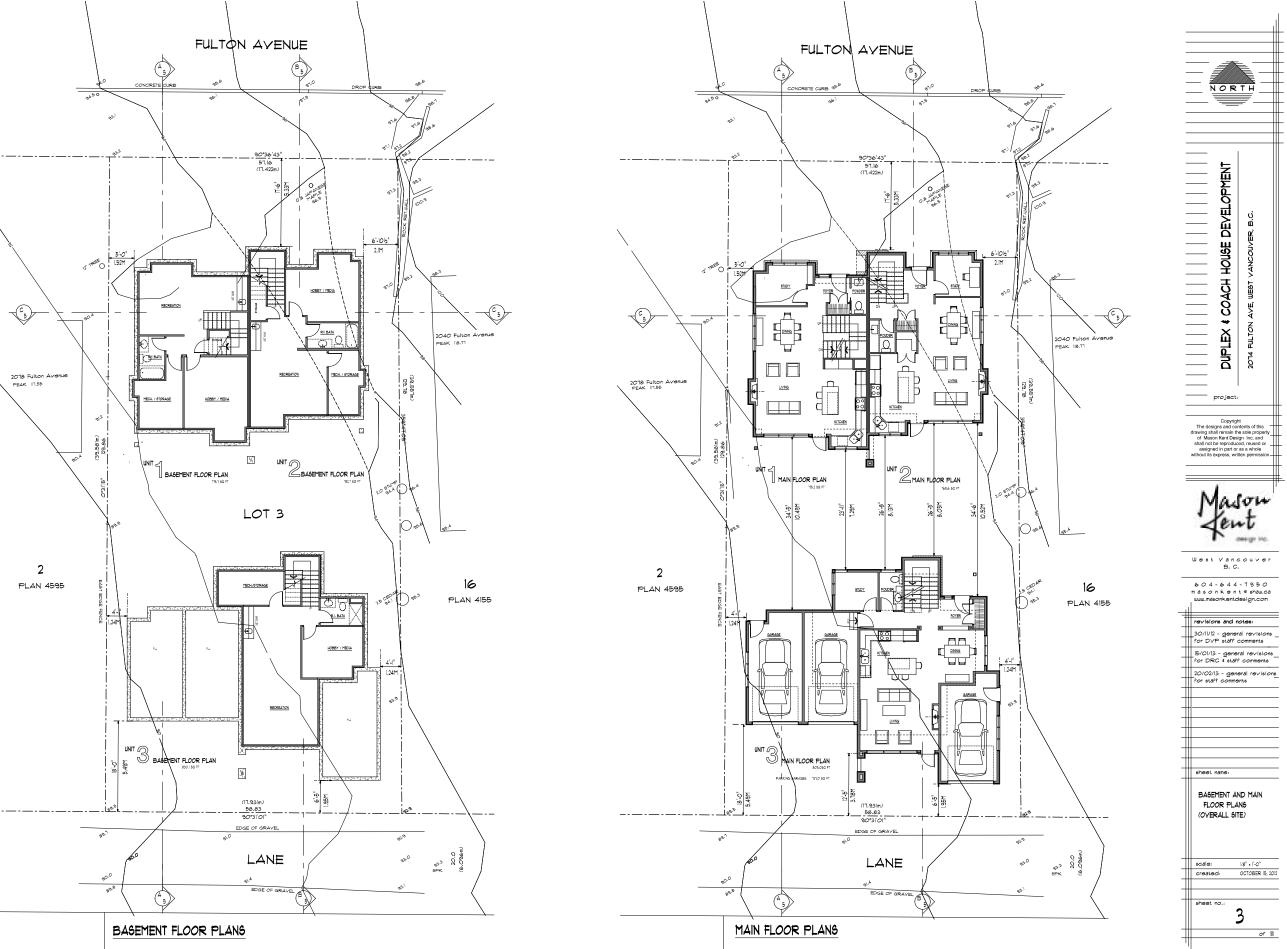
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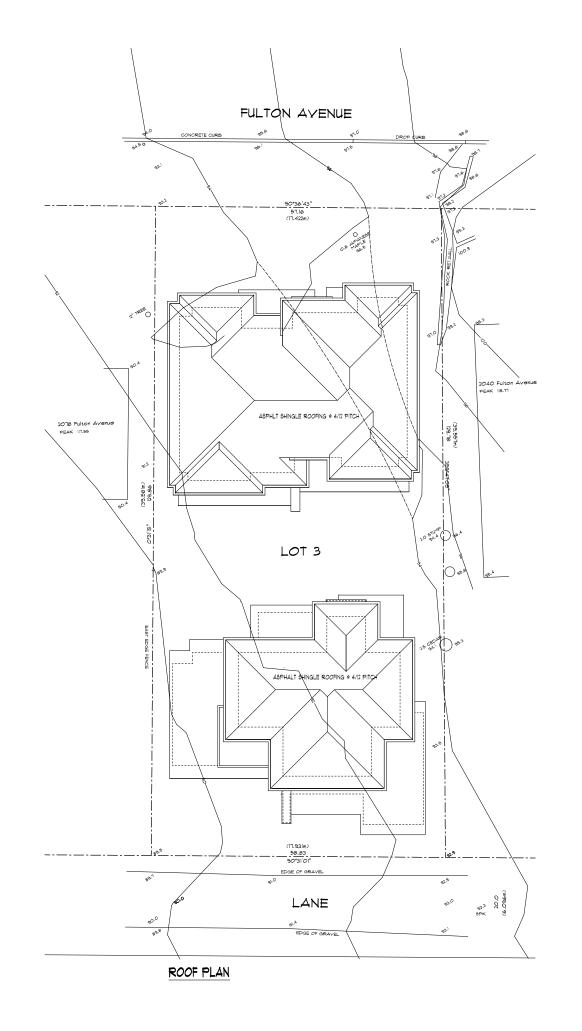
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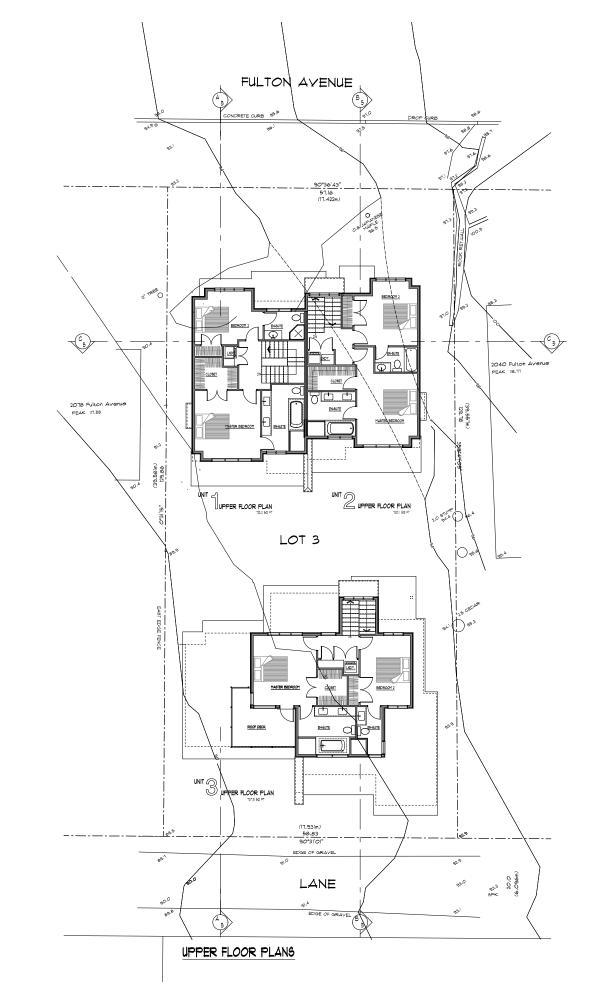


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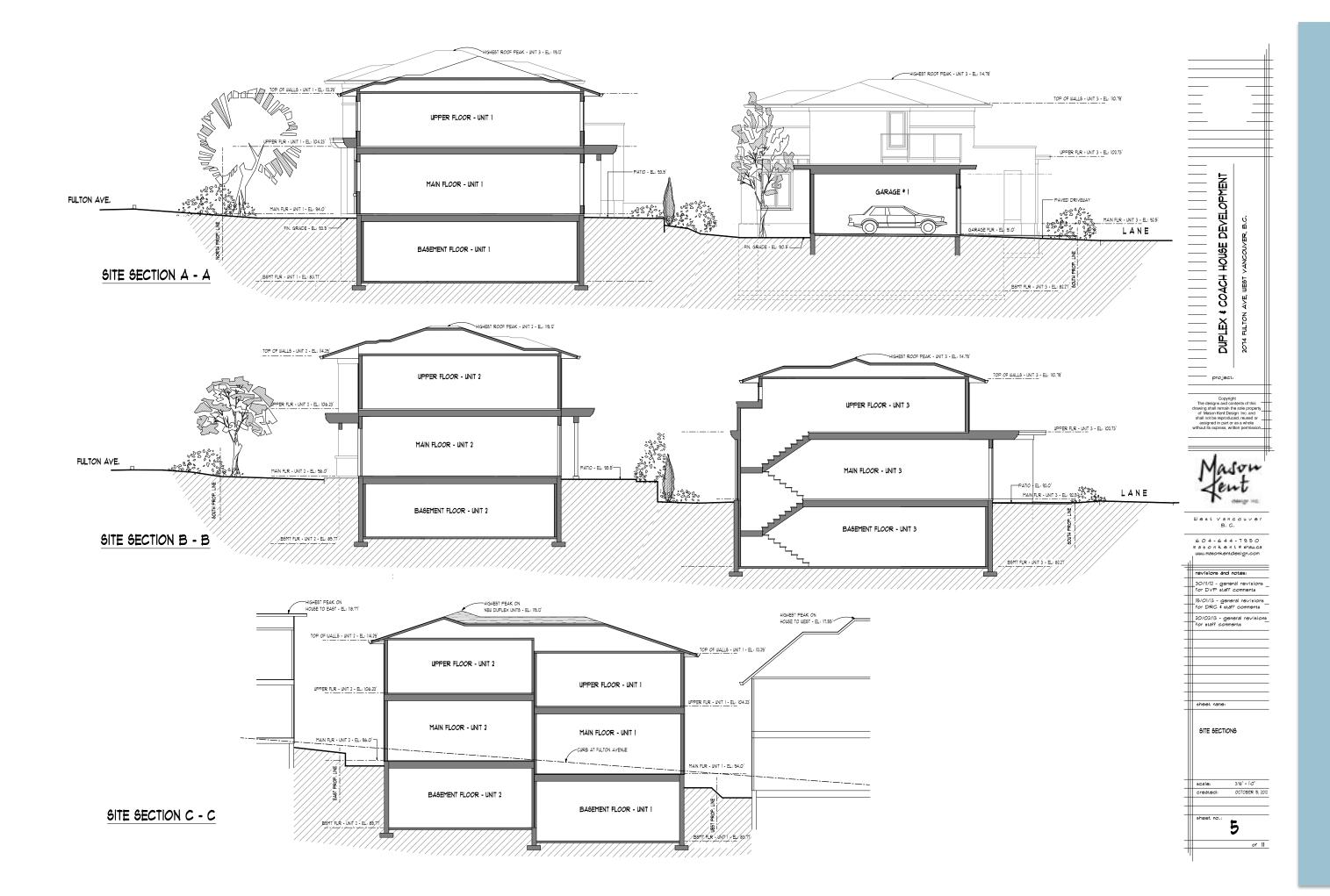


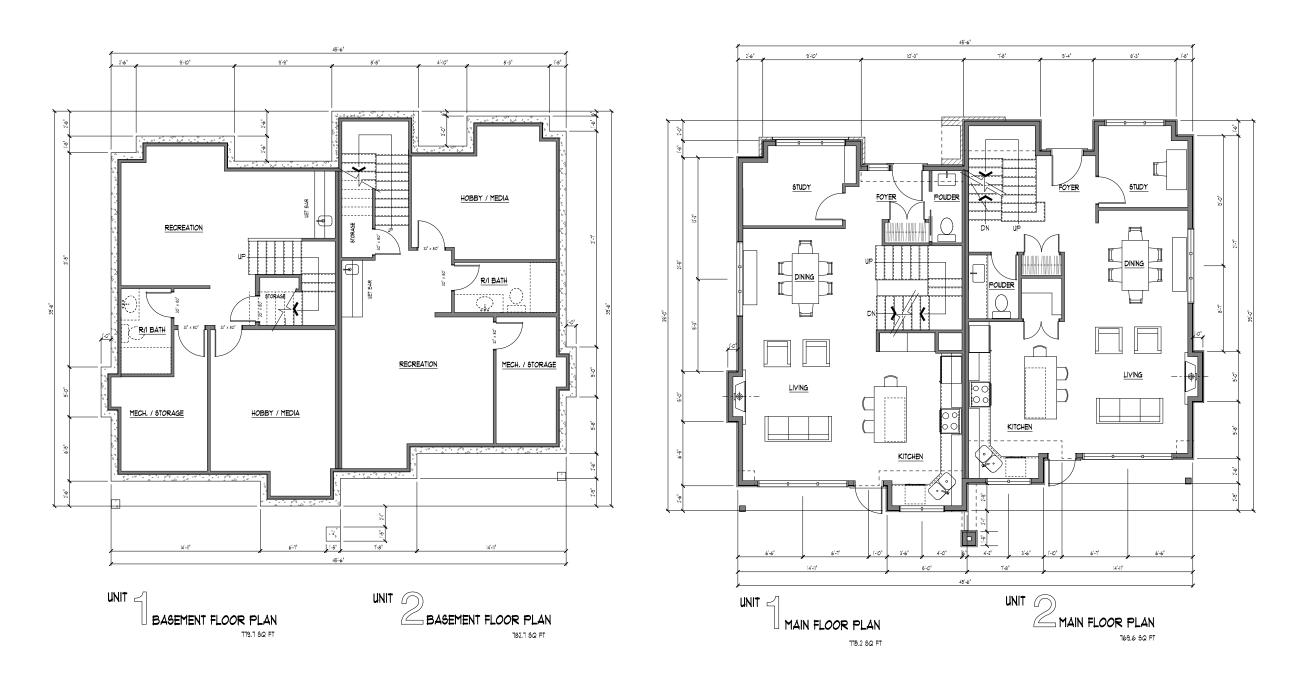






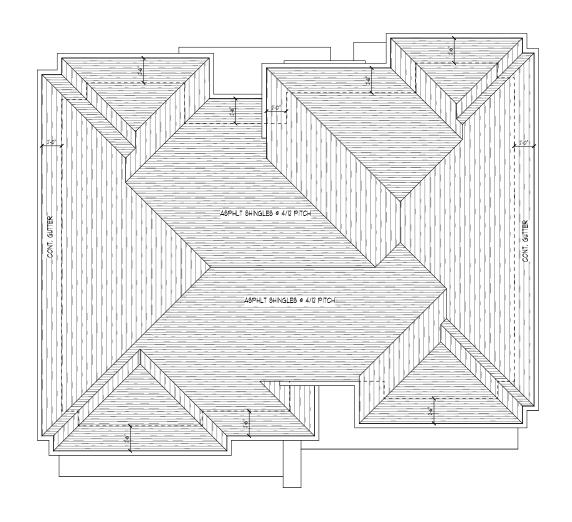




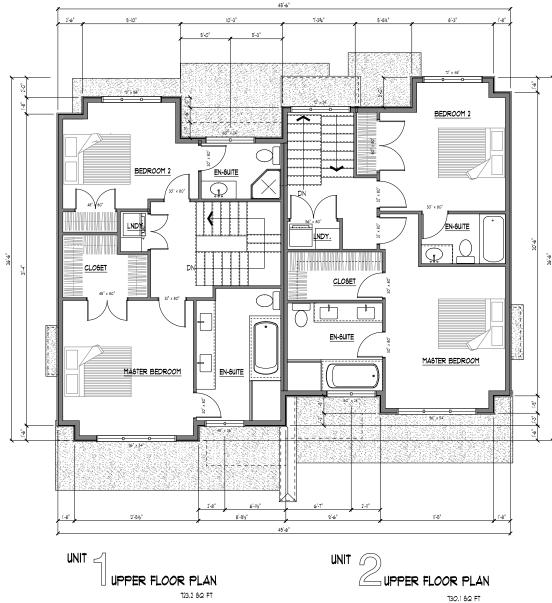




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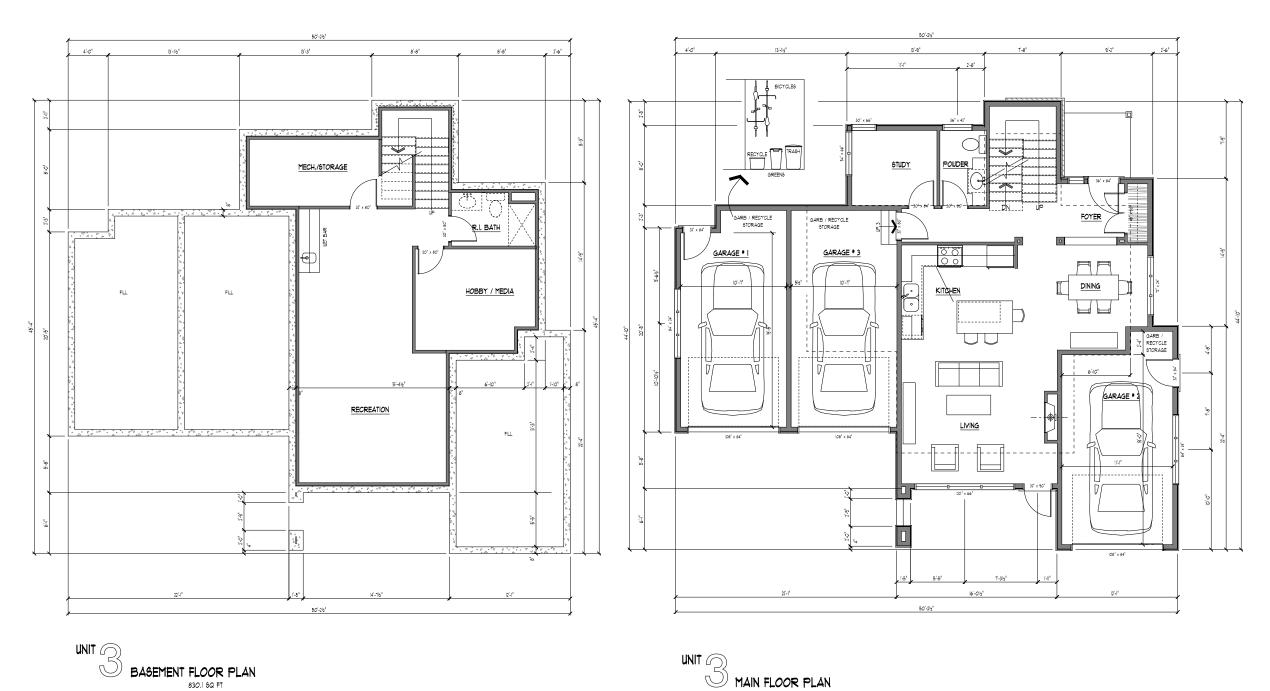
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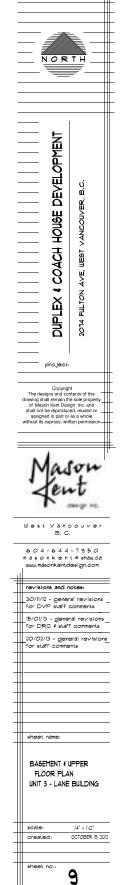


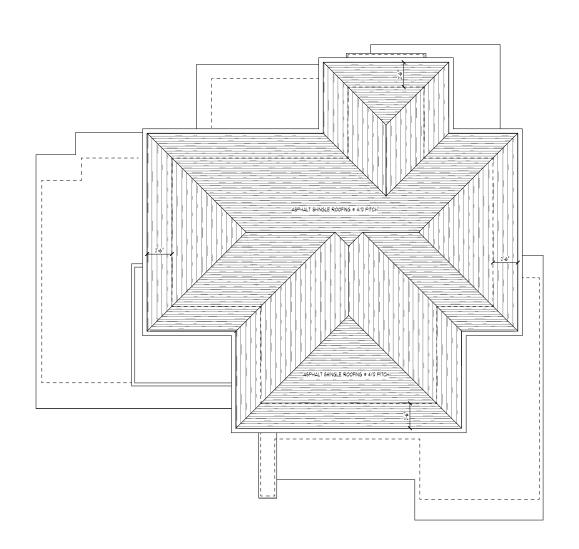


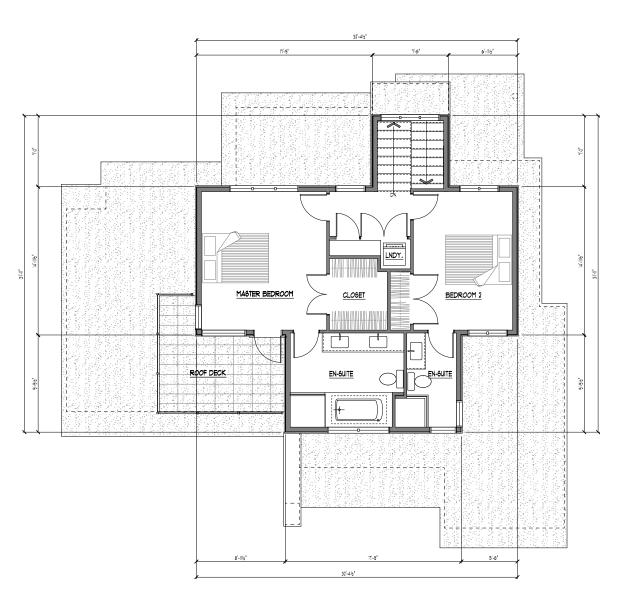


809.0 SQ FT

PARKING GARAGES: 131.0 SQ FT







UNIT ROOF PLAN

UNIT UPPER FLOOR PLAN
1312 5Q FT



