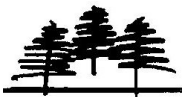


**Tree Evaluation Report for:
15439 Oxenham Avenue
White Rock, BC**

Prepared for:
Name: Harbinder Deol
Phone no: 778-288-9365
Email: harbinderdeol@hotmail.com

Prepared by:
Mike Fadum and Associates Ltd.
#105, 8277-129 Street
Surrey, BC
Phone 778-593-0300
Fax 778-593-0302
Business License # - 00021505



Date: August 24, 2021
Revised: February 13, 2023
Revised: February 17, 2023

1.0 INTRODUCTION

We attended the site on August 3, 2021 to evaluate the tree resource and to make recommendations for removal and preservation for the subdivision application proposed for 15439 Oxenham Avenue, White Rock, BC. The development site consists of lot north of Oxenham Avenue and east of Best Street. The application proposes construction of duplex homes. A plan showing the proposed building footprints, lot lines and topographical survey was provided for our use and used as a resource for making recommendations pertaining to tree removal and retention. The lot servicing and grading information is not provided at this time. *The February 13, 2023 revision reflects inventory updated with an additional offsite tree. The February 17, 2023 revision reflects updated recommendation for tree OS2 following city comments provided in the email dated February 14, 2023.*

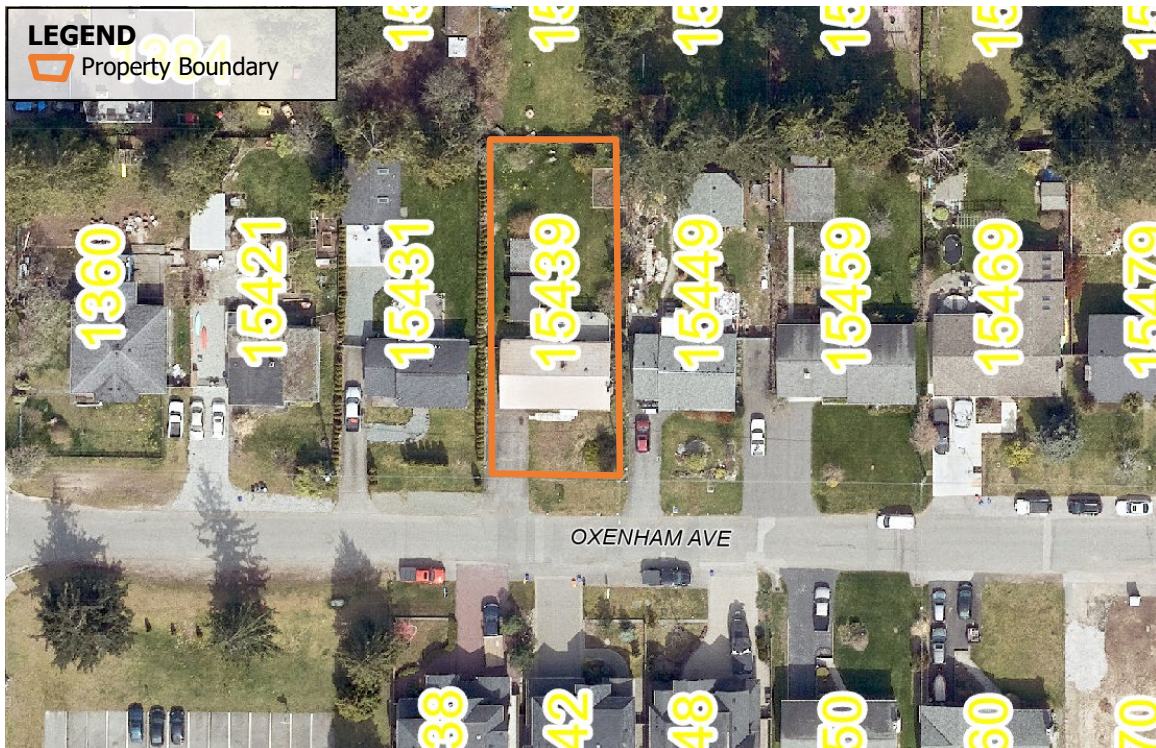


Figure 1. Aerial photograph of 15439 Oxenham Avenue (WROMS 2019).

2.0 FINDINGS

The tree resource includes an offsite Douglas-fir located in the northeast corner, English walnut (*Juglans regia*) along east property line and a Western redcedar 'Excelsa' tree located at the southwest corner on the boulevard. Tree health and structure ranges from moderate good to good. Photographs are provided in Appendix A.



Table 1 provides individual tree data. Specific information includes tree type, diameter at breast height (DBH), structure and health rating (poor (P), moderate (M), good (G) or a combination of two), live crown ratio (LCR) and structural observations. Health refers to the tree's overall health and vigor, while structure is a qualitative rating of a tree's shape and structure when compared to ideal trees of the same species and age class. Trees were evaluated for their preservation potential based on health, structure, location and species factors. Trees expected to be unsafe, conflicting with the proposed building plans, of poor health or of little long-term retentive value are recommended for removal and are shown on the attached Tree Preservation and Removal Plan.

3.0 TREE PROTECTION

Tree protection fencing is to be installed as per municipal standards prior to construction with no excavation, grade alterations or materials storage within the tree protection zone. The consulting Arborist should be contacted prior to and be onsite for any construction within the recommended root protection zone which is approximately 6x the tree diameter. Grade alterations and other construction works required to provide drainage are not to occur within the root protection zone. Failure to comply with these recommendations may result in delays, stop work orders or fines imposed by the municipality.

4.0 TREE PRESERVATION SUMMARY

Our plans have been provided to the design team and it is expected that all consultants and contractors adhere to the recommendations in this report and ensure there is no conflict with Tree Protection Zones. No ground disturbance or grade alterations are permitted within the Tree Protection Zones unless preapproved by the project arborist. Mechanical injuries caused to trees below or above ground cannot be repaired. All parties must be aware that long-term success in tree preservation efforts depends greatly on minimizing the impact caused during and post construction. Best efforts must be made to ensure that soils remain undisturbed within the tree protection zones. Ongoing monitoring and implementation of mitigating works, such as watering, mulching, etc., is essential for success.

5.0 LIMITATIONS

This Arboricultural field review report is based on site observations on the dates noted. Best efforts have been made to ensure that the opinions expressed are a reasonable and accurate representation of the condition of the trees reviewed. All trees or groups of trees have the potential to fail. No guarantees are offered or implied by Mike Fadum and Associates Ltd. or its employees that the trees are



safe given all conditions. The inspection is limited to visual examination of accessible items without dissection, excavation, probing, coring or climbing. Trees can be managed, but they cannot be controlled. To live, work or play near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

The findings and opinions expressed in this report are representative of the conditions found on the day of the review only. Any trees retained should be reviewed on a regular basis. The root crowns, and overall structure, of all of the trees to be retained must be reviewed immediately following land clearing, grade disturbance, significant weather events and prior to site usage changes.

Please contact the undersigned if you have any questions or concerns regarding this report.

On behalf of Mike Fadum and Associates Ltd.



Rhythm Batra

ISA Certified Arborist PN-8932A

TRAQ



Table 1 - Tree Evaluation: 15439 Oxenham Avenue, White Rock, BC

Tree #	Type	DBH (cm)	Canopy (m)	LCR (%)	Condition (Structure, Health)	Observations	Recommendation	TPZ (m)
C1	Western Redcedar (<i>Thuja plicata</i>) 'Excelsa'	~10/~10	1.0	100	G, G	Maintained as a hedge.	Retain	1.5
OSH1	Western Redcedar (<i>Thuja plicata</i>) 'Excelsa'	See obv.	~1.5	100	MG, G	~4-6m tall. Growing on a raised grade.	Retain TPB to be built at the edge of existing retaining wall.	1.5
OS1	Douglas-fir (<i>Pseudotsuga menziesii</i>)	~80	~6.5	80	MG, MG	Shed at the base prevented thorough assessment. Somewhat shade suppressed. DBH as per surveyor.	Retain	5.5
OS2	English walnut (<i>Juglans regia</i>)	~15/~10	~3.0	NA	M, MG	Tree not surveyed. Location approximate. Two stems attached at the base. Canopy weighted to the east.	Remove to accommodate construction. Pending permission from the registered owner.	2.0
ADDITIONAL RECOMMENDATIONS <ul style="list-style-type: none"> In order to prevent root damage, which may adversely affect the health and or stability of the retained trees, any ground disturbance or grade alteration within the recommended Tree Protection Zone provided in the table above shall be under the direction of the project arborist. Permission from the registered owner(s) is required prior to the removal of all offsite and shared trees regardless of their size. 								

Note: Location is approximate for all non-surveyed trees. 'C' refers to a city owned tree.





Figure 1: Tree C1 & OSH1 (left to right).





Figure 2: OSH1.





Figure 3: OS1.





Figure 4: OS2



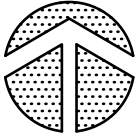
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VEGETATION CONSULTANTS

Summary of Tree Preservation by Tree Species:

Tree Species	Existing	Remove	Retain
Alder and Cottonwood Trees			
English walnut	1	1	0
Deciduous Trees (excluding Alder and Cottonwood Trees)			
Coniferous Trees			
Cedar, Western	1	0	1
Fir, Douglas	1	0	1
Total	3	1	2
Total Replacement Trees Required		2	
Total Replacement Trees Proposed		2	
Total Replacement Trees in deficit		0	
Total Retained and Replacement Trees		6	

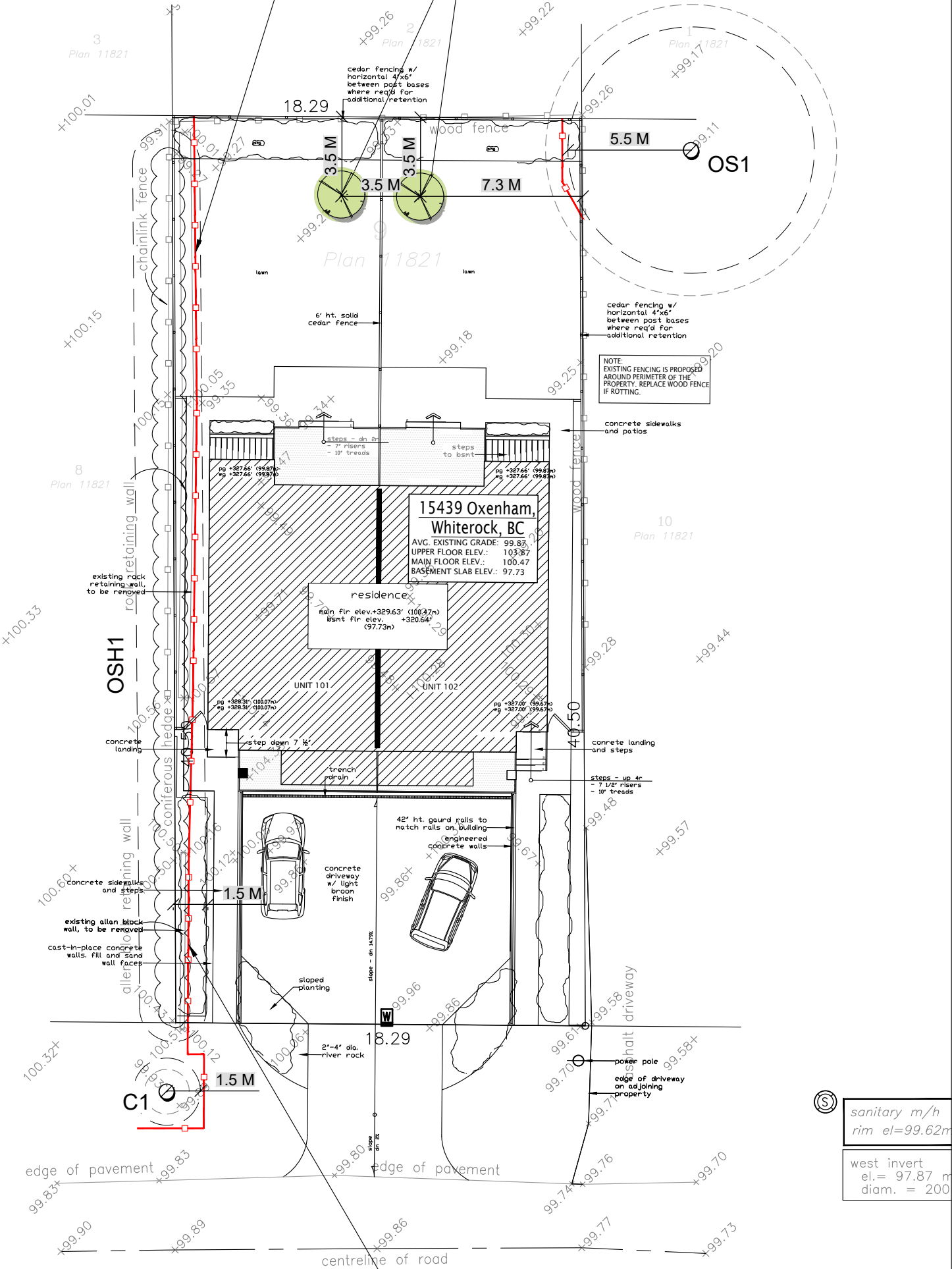


el. = 97.87 m
diam. = 200mm



NOTE: TREE PROTECTION BARRIER TO BE BUILT AT THE EDGE OF EXISTING RETAINING WALL.

Japanese Stewartia
Stewartia pseudocamellia
(6cm caliper min)



NOTE: TREE PROTECTION BARRIER TO BE BUILT AT THE EDGE OF EXISTING RETAINING WALL.



LEGEND

- TREE TO BE RETAINED
- MINIMUM NO DISTURBANCE ZONE
- TREE PROTECTION FENCING
- TREE DRIPLINE
- DECIDUOUS REPLACEMENT TREE (6cm min. caliper)

MIKE FADUM AND ASSOCIATES LTD. VEGETATION CONSULTANTS

#105, 8277 129 St.
Surrey, British Columbia
V3W 0A6
Ph: (778) 593-0300
Fax: (778) 593-0302
Email: mfadum@fadum.ca

CLIENT

FILE NO.

PROJECT TITLE
TREE PRESERVATION AND PROTECTION PLAN

15439 OXENHAM AVENUE
WHITE ROCK, B.C.

REVISIONS:

NO.	DATE	BY	REVISION
1	FEB16/22	AA	SITE PLAN
2	FEB13/23	MK	REVISIONS

- GENERAL NOTES:
- REASSESS RETAINED TREES WITH FINAL SERVICING AND GRADING PLANS.
 - NON BY-LAW TREES HAVE BEEN REMOVED FROM THE PLANS.
 - TREE PROTECTION FENCING SHALL BE CONSTRUCTED TO MUNICIPAL STANDARDS.
 - REPLACEMENT TREES SHALL CONFORM TO CNLA LANDSCAPE STANDARDS. SPECIES AND LOCATIONS TO BE DETERMINED AT LANDSCAPE STAGE. REPLACEMENT TREES TO BE MIN. 3m FROM FOUNDATIONS AND MIN. 1m FROM PROPERTY LINES.

SHEET TITLE

T2 - TREE PROTECTION AND PRESERVATION PLAN

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DRAWN
MK

SCALE
AS SHOWN

DATE
AUGUST 13, 2021

T-2
SHEET 2 OF 2