

**Froggers Creek
Tree Consultants Ltd.**

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City of Port Moody
100 Newport Drive Box 36
Port Moody, BC
V3H 3E1

March 7, 2023

RE: 2804 and 2808 St George Street, Port Moody

Tree Management Report

The owners these properties is proposing to develop the site and the City has requested a tree report.

TREE PRESERVATION SUMMARY

11	On-site "Protected Trees" ¹
2	Onsite trees proposed for retention

OBSERVATIONS

I visited the site on April 19, 2022 to assess the trees. I have done a basic visual assessment of only the onsite trees. I have assessed the trees for trunk size (DBH), crown radius (CR), height (Ht), health and apparent structural condition. This information is recorded in the inventory in the Appendix. Many of the trees were not surveyed. I plotted out their approximate locations. There are 11 onsite trees, no neighbouring or City trees that could be impacted by the proposed construction. See attached pictures.

DISCUSSION

To help determine the protection area required for the trees I have calculated out their minimum protection zones (MPZ)². A tree that requires any excavation inside of the Protection Zone is usually not considered a good candidate for retention. The Protection Zones are included in the inventory above and shown on the drawing as a dashed circle around the trees.

Trees Proposed for Removal

9 onsite trees are within the excavation area required for the development and cannot be retained. For a tree to be considered for retention there can be no excavation or grade changes within the dashed circle around the tree.

Trees Proposed for Retention

2 onsite trees are proposed for retention, see protection measures next page.

Replacement Trees

The City of Port Moody will require replacement trees. The landscape plan will address the replacement trees.

Drawings

A scaled Tree Drawing is attached as Appendix 3. The drawing plots onsite trees proposed for retention, removal, their canopies, Protection Zones and protection fencing in relation to the proposed layout.

¹ Protected Trees – the City of Port Moody considers all trees with a single trunk diameter 10cm and greater to be protected.
² MPZ- In an effort to retain trees most of the municipalities of the lower mainland have accepted 6 times the diameter of the trunk as the Minimum Protection Zone required during excavation and construction.



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TREE PROTECTION MEASURES

Tree Protection Fencing

I am recommending robust tree protection fencing around the two trees being retained. The fencing should be installed the following distances from the trees:

TREE PROTECTION FENCING				
Minimum Radial Distance from trunk				
#	Type	DBH	Metres	Feet
184	Flowering Dogwood	10/10/6cm	1.5m	4.9ft
187	Japanese Maple	13/12/12cm	2.0m	6.6ft

A tree protection fencing dimension drawing is included in the Tree Preservation Drawing in the Appendix 4. A Tree Protection Fencing detail is attached as Appendix—1.

Protection Measures

The following protection measures are recommended to minimize the impact to the trees:

- No access by vehicles or personnel is permitted within the fenced-off areas. Storage of materials is also not permitted inside this area.
- In the eventuality that the site supervisor requires access to the tree protection area, the Project Arborist should be consulted beforehand.
- Services (gas, sewer, septic, water, electrical) should be dug outside the protected areas of the retained trees.
- The Project Arborist should be consulted before any grade changes are performed within the protected areas. This includes landscape grade changes that take place after construction.
- The retained trees may need to be pruned for clearance. This work should be performed by a qualified Arborist under the direct supervision of the arborist with the permission of the owner of the tree.
- The arborist should be onsite during excavation within 3' of any protection zone.
- The Project Arborist should be responsible for inspecting and re-assessing the trees following completion of the project.

Landscape Protection Measures

- I recommend the landscape contractor meets with the Project Arborist and the Project Manager before the fencing is removed to discuss the protection requirements during landscaping.
- There should be minimal excavation within the protection zones.
- Underground irrigation lines must be kept outside the protection zones and be only dug into already disturbed areas. Any irrigation required inside of the protection zones must be installed along the existing grade with no excavation.
- No equipment is permitted inside the protection areas, this includes bobcats, mini excavators, trucks, etc. unless soil protection measures are put in place (see above). The arborist should be consulted beforehand.
- All plant material proposed within the protection areas should be 4" pots or smaller. And plants should be planted in added soil reducing the need to excavate for installation.
- The grade in the protection areas should be limited to the addition of a maximum of 4" of well drained sandy loam topsoil (no clay).
- Any proposed permanent fences within the protection areas will need to be carefully aligned as to minimize the impact to the trees. The holes for the posts will need to be hand dug.
- The hardscape areas within the protection areas; sidewalks, play areas, benches etc. should be installed without any excavation under the supervision of the arborist.
- Retaining walls cannot be built within the protection zones of the trees.

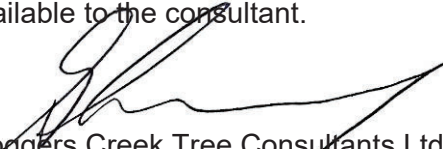


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End Report.

CERTIFICATION:

This report and the opinions expressed within it have been prepared in good faith and to accepted arboricultural standards within the scope afforded by its terms of reference and the resources made available to the consultant.


Froggers Creek Tree Consultants Ltd.
Glenn Murray – Board Certified Master Arborist
I.S.A. Certification # PM-0795
Certified Tree Risk Assessor #0049

March 7, 2023

Tree 181



Tree 182





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Tree 180



Tree 179



Tree 183





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Tree 185



Tree 186



Tree 187(left) and 188(right)





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Tree 189



Tree 184



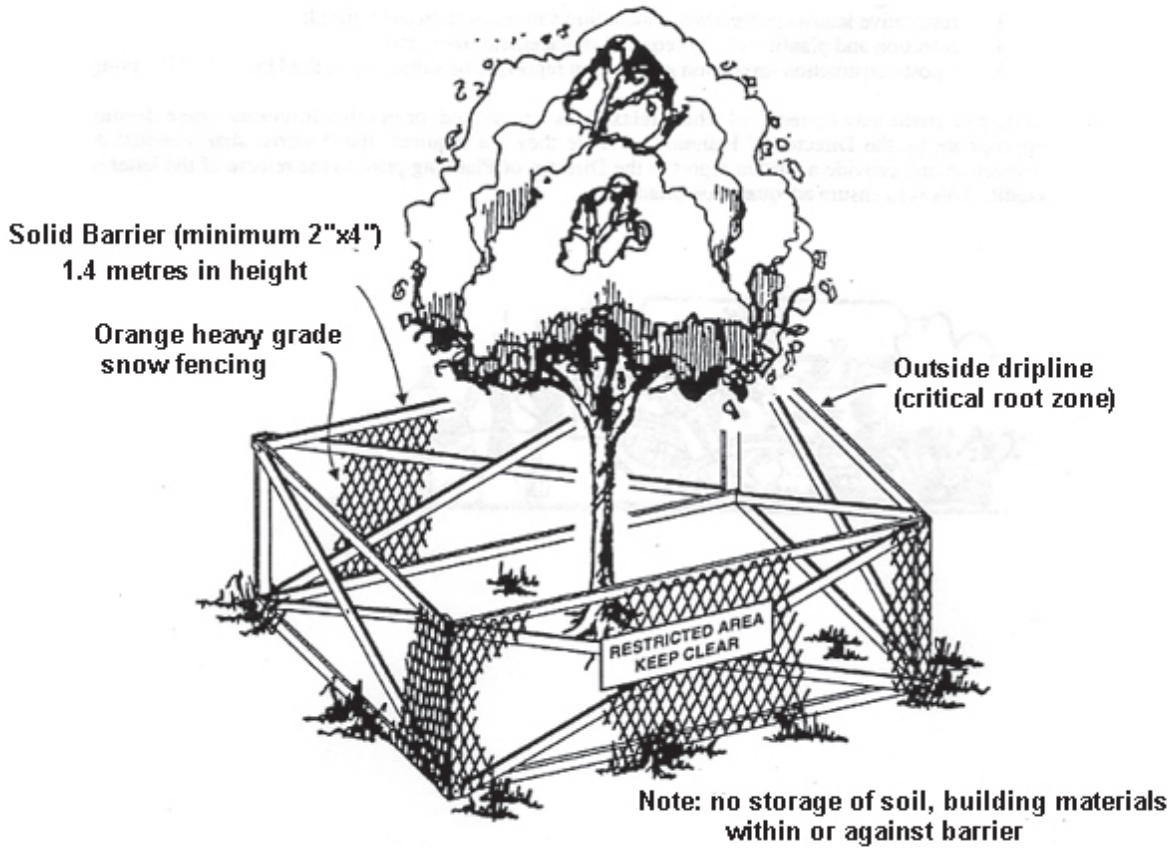
**ASSUMPTIONS AND LIMITING CONDITIONS**

1. This report and the opinions expressed within it have been prepared in good faith and to accepted arboricultural standards within the scope afforded by its terms of reference and the resources made available to the consultant. The report provides no undertakings regarding the future condition or behavior of the trees reviewed within it. Tree hazard and condition assessments are not an exact science. Both qualities can and do change over time and should be reappraised periodically.
2. This assessment was limited to a level 2 basic visual assessment of all onsite protected trees and a limited (level 1) visual assessment of all others. A level 3 Advanced Assessment has not been completed. No core samples were taken. No tissue samples have been cultured or analyzed by plant pathologists. No root or root crown excavations were undertaken. No aerial reconnaissance was attempted, beyond that made possible by binoculars.
3. Any legal description provided to the consultant/appraiser is assumed to be correct. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as though free and clear, under responsible ownership and competent management.
4. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes, or other governmental regulations.
5. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant/appraiser can neither guarantee nor be responsible for the information provided by others.
6. The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
7. Loss or alteration of any part of this report invalidates the entire report.
8. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.
9. Neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the prior expressed written or verbal consent of the consultant/appraiser—particularly as to value conclusions, identity of the consultant/appraiser, or any reference to any professional society or institute or to any initiated designation conferred upon the consultant/appraiser as stated in his qualification.



Appendix 1

Tree Protection Fencing Detail



APPENDIX 2 TREE INVENTORY

ON-SITE TREES

#	Type	Action	Reason	VAL	DBH	MPZ	HT	CR	Health	Structural Condition
179	Apple	Remove	Inside building	Low	22cm	1.3m	5m	2m	Declining	Tree is topped, decay in trunk
180	Pear	Remove	Inside road	Low	27cm	1.6m	4m	2m	Declining	Tree is topped, decay in trunk
181	Douglas Fir	Remove	Inside path, too close	Mod	21cm	1.3m	5m	2m	Fair	Tree is topped
182	English Holly	Remove	inside patio, too close	Low	26cm	1.6m	5m	2m	Fair	Tree is topped
183	Black Pine	Remove	Inside path	Mod	36cm	2.2m	12m	4m	Fair	Tree is topped, co doms at 15'
184	Flowering Dogwood	Retain		Mod	10/10/6cm	1.5m	4m	3m	Fair	No apparent defects
185	Pyramid Cedar	Remove	Inside building	Low	14/10cm	1.3m	3m	1m	Fair	Topped, 2' from foundation
186	Saucer Magnolia	Remove	Too close	Mod	12/9/9cm	1.8m	5m	3m	Fair	No apparent defects
187	Japanese Maple	Retain		Mod	13/12/12cm	2.0m	6m	4m	Fair	No apparent defects
188	Katsura	Remove	Too close to amenity space	Mod	35cm	2.1m	10m	4m	Fair	Grade high at base of tree
189	Rhododendron	Remove	Inside road	Mod	10/10/9cm	1.5m	5m	3m	Fair	No apparent defects

St Andrews Street

APPENDIX 3
TREE PROTECTION PLAN

SCALED TO FIT
2.5 0 5 10
ALL DISTANCES ARE IN METRES



TREE PROTECTION FENCING

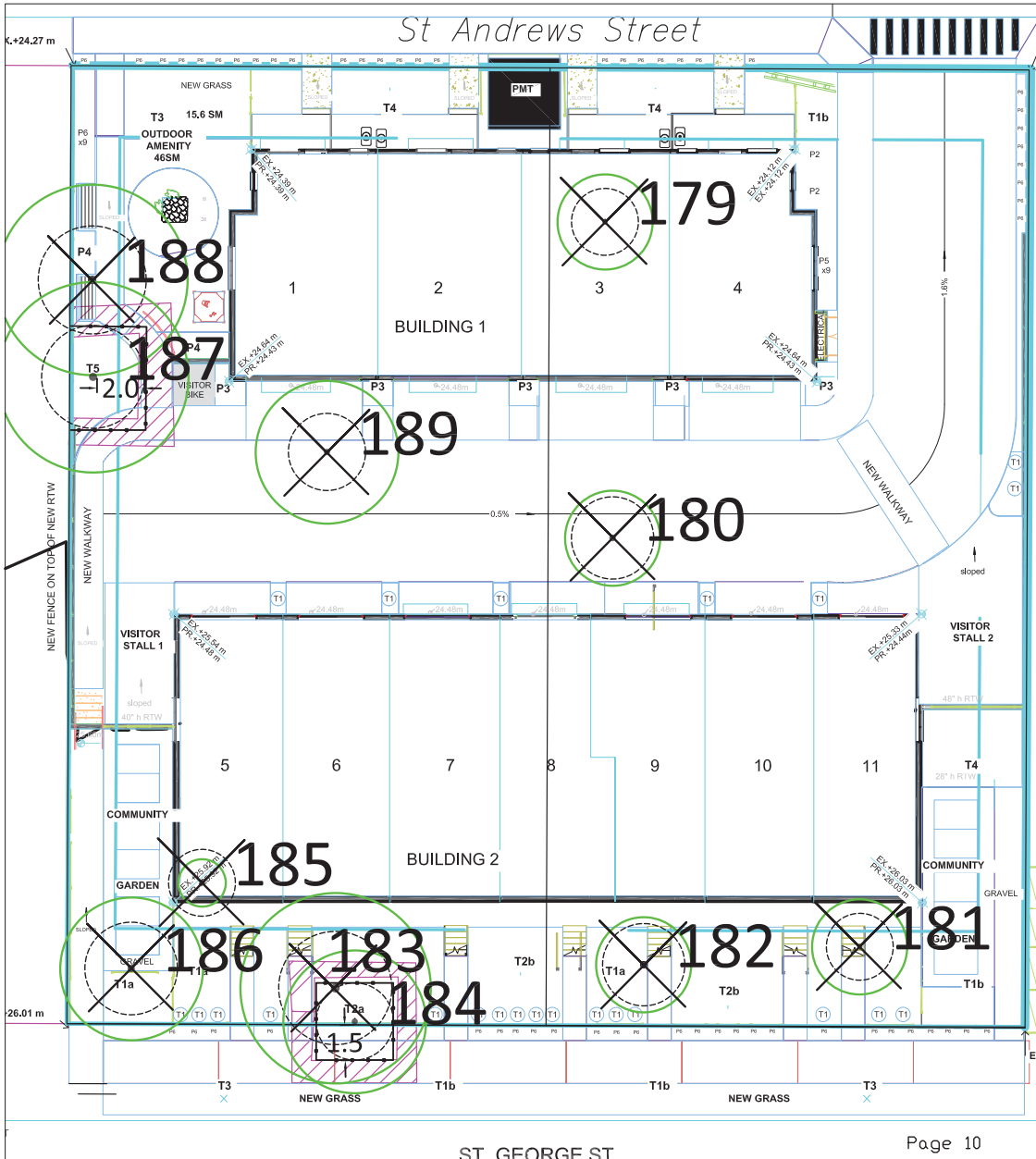
Minimum Radial Distance from trunk

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184	Flowering Dogwood	Retain	10/10/6cm	1.5m
185	Pyramid Cedar	Remove	14/10cm	1.3m
186	Saucer Magnolia	Remove	12/9/9cm	1.8m
187	Japanese Maple	Retain	13/12/12cm	2.0m
188	Katsura	Remove	35cm	2.1m
189	Rhododendron	Remove	10/10/9cm	1.5m

DBH-diameter, MPZ- protection zone

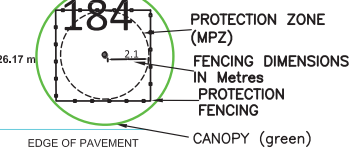


AREAS REQUIRING ARBORIST SUPERVISION

TREE PROPOSED FOR RETENTION

LEGEND

TREE PROPOSED FOR REMOVAL



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2804 and 2808 St George's St Port Moody BC
TREE DRAWING
THE DRAWING PLOTS ALL TREES, PROPOSED FOR RETENTION, REMOVAL, THEIR CANOPIES, PROTECTION ZONES AND PROTECTION FENCING IN RELATION TO PROPOSED LAYOUT
March 7, 2023