Appendix 4: Sample Tree Protection Plan and Sample Arborist Report

TO: CITY OF TACOMA, PLANNING AND DEVELOPMENT SERVICES

FROM: ARBORISTS NAME, COMPANY NAME

SUBJECT: PROJECT NAME AND PERMIT NUMBER (IF APPLICABLE)
TREE PRESERVATION ASSESSMENT AND PROTECTION PLAN

DATE:

ASSIGNMENT AND SCOPE OF REPORT

This report is provided for Project Name and Permit Number, (Parcel #0000000000), for the portion of land Descrption of the Subject Area, wherein landscaping improvements are proposed to be constructed around existing trees. The Permit Applicant or Property Owner has elected to retain several trees through construction activities to comply with City of Tacoma Municipal Code 13.06.090B. This report satisfies the requirements of the City of Tacoma Urban Forest Manual (UFM) Chapter 7, Section 7.2 Tree Protection Plans and TMC 13.06.090B.

The scope of this report is to provide the following:

- A visual tree assessment for health and condition;
- An inventory of all trees within the site extent (as described above) over 1-inch in diameter, not including two dense patches of quaking Aspen (*Populus tremuloides*) as noted on the attached plan, which were measured by the extents of the canopy;
- Recommendations regarding which trees should be saved based on their health and proximity to construction activities; and
- Construction management recommendations for protection of trees identified to be saved, including specifications for the required tree protection fencing around the tree protection zones (TPZ).

The subject site is proposed to be improved with a new 8-foot sidewalk on the southern edge of the hillside on the entrance drive. In addition, a new bioretention facility will be constructed in the southwest corner where the two hillsides meet (see attached plan), as well as new proposed trees, shrubs and groundcovers around the existing vegetation on the hillside.

Draft development plans for the Cheney Phase 2 Improvements were reviewed (90%), and a "Preservation Value" for each tree was determined based on the trees' health, defects and potential impacts from construction activities. Each tree has been assigned an identification number and a preservation value (See inventory table) that correlates to the attached plan.

TREE PROTECTION ZONE/FENCING

The TPZ is measured at 1-foot outwards from the tree trunk (radius) for every 1-inch of tree trunk diameter at breast height (DBH), and completely encircles the tree. For example, a tree with a twelve-inch DBH would have a TPZ of twelve-feet in radius from the tree trunk.

Tree protection fencing should be placed at the edge of the TPZ or at the edge of the drip-line (whichever is greater) before construction activities begin. When the TPZ or drip-line is interrupted by paved surfaces that will not be disturbed through construction, tree protection fencing may be installed at the edge of pavement. Tree protection fencing should also be installed at the boundary of any open space tracts or conservation easements that abut the construction site.

Tree protection fencing should be installed flush with the initial undisturbed grade, and should be a readily visible 6-foot high chain link, where feasible, or high-visibility fencing where topographic conditions do not allow for chain link. Fence posts should be installed using above ground pier blocks only.

CONSTRUCTION MANAGEMENT

All fencing should remain in place until the Engineer authorizes removal or substantial completion is issued, whichever occurs first. Signs should be attached to the fencing stating that the area inside the fencing is a tree protection zone (TPZ), and that the area is not to be disturbed, unless prior approval has been obtained from the City, project Engineer and/or a Certified Arborist. Approved tree protection signs are attached.

The following construction activities shall not be performed within the tree protection zone:

- Dumping or storage of materials such as building supplies, soil, waste items, vehicles or equipment;
- Parking or maneuvering vehicles;
- Excavation for utility or building construction;
- Construction of new paved surfaces; and/or
- Changes to the grade.

Any landscaping done in the TPZ subsequent to the removal of the fencing shall be accomplished with light machinery or hand labor.

If fencing needs to be moved closer to a tree or group of trees for construction ease, contact a Certified Arborist for additional assessment specific to the tree(s) in question.

ID #	Scientific Name	Common Name	DBH, Height, Width	*Preservation Value	Recommendation	TPZ dia.	Flow Control Credit
1	Alnus rubra	red alder	21.25", 40', 30'	Low	Remove	NA	NA
2	Fraxinus latifolia	Oregon ash	21.25", 60', 50'	High	Save	50'	196
3	**MS Fraxinus latifolia	Oregon ash	(6)2.25", 12', 12'	Moderate	Save	12'	98
4	**MS Fraxinus latifolia	Oregon ash	(6)1.75", 12', 15'	Moderate	Save	12'	98
5	Fraxinus latifolia	Oregon ash	10", 40', 35'	High	Save	35'	196
6	Fraxinus latifolia	Oregon ash	3", 25', 15'	Moderate	Save	15'	98
7	**MS Salix schouleriana	Schouler's willow	(10)2.25", 20', 20'	Moderate/Low	Thin, clearance prune (16'HT)	20'	NA
8	Fraxinus latifolia	Oregon ash	2.75", 20', 17'	High	Save	17'	98
9	Malus sp.	crabapple	4", 16', 20'	Low	Remove	NA	NA
10	**MS Fraxinus latifolia	Oregon ash	(6)2", 25', 20'	Moderate	Thin, clearance prune (16'HT)	20'	98
11	**MS Malus sp.	crabapple	(2)3.5", 25', 16'	Moderate/Low	Remove	NA	NA
12	**MS Fraxinus latifolia	Oregon ash	(3)2.25", 25', 16'	Moderate	Save	16'	98
13	Malus sp.	crabapple	3.5", 20', 20'	Low	Remove	NA	NA
14	Malus sp.	crabapple	3", 16', 16'	Low	Remove	NA	NA
15	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
16	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6

ID #	Scientific Name	Common Name	DBH, Height, Width	*Preservation Value	Recommendation	TPZ dia.	Flow Control Credit

17	Fraxinus latifolia	Oregon ash	5", 25', 20'	High	Save	20'	98
18	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
19	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
20	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
21	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
22	Pseudotsuga menziesii	Douglas fir	12", 60', 25'	High	Save	25'	63
23	Fraxinus latifolia	Oregon ash	21.5", 50', 40'	High	Save	43'	98
24	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
25	Malus sp.	crabapple	3-4", 12-20', 12-20'	Moderate/Low	Save	20'	6
26	Malus sp.	crabapple	3-4", 12-20', 12-20'	Low	Remove	NA	NA
27	Malus sp.	crabapple	3-4", 12-20', 12-20'	Low	Remove	NA	NA
28	Malus sp.	crabapple	3-4", 12-20', 12-20'	Low	Remove	NA	NA
29	Pseudotsuga menziesii	Douglas fir	5", 25', 20'	High	Save	20'	47
30	Malus sp.	crabapple	3-4", 12-20', 12-20'	Low	Remove	NA	NA
31	Malus sp.	crabapple	3-4", 12-20', 12-20'	Low	Remove	NA	NA
32	**MS Arbutus menziesii	Pacific madrone	(2)19.75", 60', 60'	High	Save	60'	192
33	Pseudotsuga menziesii	Douglas fir	22.25", 70', 50'	High	Save	50'	63
34	Pseudotsuga menziesii	Douglas fir	22.25", 60', 50'	High	Save	50'	63
35	Malus sp.	crabapple	3-4", 12-20', 12-20'	Low	Remove	NA	NA
36	Arbutus menziesii	Pacific madrone	20", 35', 25'	High	Save	25'	192

*Note, "Preservation Value" is a direct correlation to tree health/condition and does not take into account cultural relevancy or ecological implications of the tree, which can otherwise add value.

**MS, Multi-Stemmed. Trees are listed by average stem diameter preceded with the number of stems in parenthesis; width and TPZ is determined by edge of drip-line of the group of trees.

Total Retained Trees	25

CONCLUSIONS

The recommendations in this report reflect the current development proposal. Any changes made regarding the location, size, or extent of impact of the construction of the proposed landscaping, infrastructure, or utilities will require further assessment to meet the requirements of the City of Tacoma City of Tacoma Urban Forest Manual (UFM) Chapter 7, Section 7.2 Tree Protection Plans and TMC 13.06.090B.

The recommendations in this report are based on the current conditions of the existing trees dated _____, and their current associated preservation values. Should the conditions and/or health of the trees decline prior to construction activities, an additional assessment may be needed. To the best of my knowledge and belief, the statements and opinions here are correct, subject to any limiting conditions set forth. This report satisfies the City of Tacoma's Certified Arborists Report requirements per the City of Tacoma Urban Forest Manual (UFM) Chapter 7, Section 7.2 Tree Protection Plans and TMC 13.06.090B and should therefore prove eligibility of Tree Retention Credit therein.

Sincerely,

Arborist Signature

Arborist Name, Title and Company Name
ISA Certified Arborist Number PN-1234A
Email
Telephone Number

Mailing Address