



Professional Forestry Services, Inc.

100 Ruby St. SE, Suite B
Tumwater, WA 98501
Phone (360) 943-1470

November 23, 2021

Chris Carlson
Hatton Godat Pantier
3910 Martin Way E, Suite B
Olympia, WA 98506

Re: Revised Tree Plan for I-5 Commerce Place, City of Tumwater, Washington

Dear Mr. Carlson:

As you authorized, Professional Forestry Services, Inc. has inspected the trees on the site where the proposed project is to take place. The following information should satisfy your requirement for a tree plan, as needed for submission before additional land-clearing.

1. LOCATION

All trees involved are on portions of parcels numbered 12716420000, 12716340100, 12716340102 and 12716340101, which total 40.26 acres, and are within portions of Section 16, T17N, R2W, W.M., Thurston County Washington.

2. TREES ON-SITE

The subject parcels were logged in 2006 under a Forest Land Conversion (Class IV) Permit approved by Thurston County (TC #2005102899). The Conversion permit identified clearing limits which served to retain two contiguous strands of trees on the site in relation to mapped off-site wetland buffers and high ground water hazard areas. A Critical Area and Buffer Notice was recorded on the parcels (AF# 3796189 and AF# 3798544).

The project now within City of Tumwater limits proposes to clear all trees on the site with the exception of those that exist within proposed Tract "D".

The current inventory of trees on the site:

	<u>6"+</u>	<u>2-5"</u>
Douglas-fir	27	-
Lodgepole pine	52	-
Willow	3	11
Cherry	7	20
Black Cottonwood	1	-
Total Trees On-site =	101	31

3. TREES OFF SITE

There are no offsite trees to be impacted by this proposal.

4. TREES TO BE RETAINED

As outlined in Chapter 16.08.070R of the Tumwater Tree Ordinance, at least twelve trees per acre, or 20% of the trees on the site whichever is greater shall be retained. If this number cannot be met by existing trees, a 5% tree tract is required. Tree Tract D is 2.27 acres or 5.6% of the site.

Required Trees: $40.26 \text{ acres} \times 12/\text{acre} = 484 \text{ Trees}$

Total trees on-site (pre-development) were approximately 351 Trees (Trees 6" DBH & larger).

Trees to be Retained On Tree Tract D:

Tree Tract D = 90 (6" DBH & larger)

Tree Tract D = 31 (2-5" DBH)

Trees to be Mitigated: $484 - 121 = 363$

It makes little sense to remove 2-5" DBH trees and replant smaller trees. These trees should be allowed to be counted toward the 363 trees that need to be mitigated.

5. TREE TRACT REQUIREMENT

$40.26 \text{ acres} \times .05 = 2.01 \text{ acres}$ **Required** (2.27 acres provided)

Tree Tracts on proposed Development:

<u>Tract</u>	<u>Acres</u>	<u>Acres Forested</u>
D	2.27	2.27

Stocking Rate:

The proposed Tree Tract is forested with existing trees with little opportunity for additional trees to be planted and maintain a healthy canopy. Accordingly, the replanting of trees on the site will include trees to be planted around the exterior of Tract A and Tract B, planting of street trees adjacent to the new roadway and tree planting required for perimeter landscaping required when each individual lot within the subdivision is developed. See Section 8 below and attached tree replanting plan showing the project will exceed the City's minimum tree replanting of 363 trees required by TMC 16.08.

6. TREE REPLACEMENT RATIO

There were approximately 351 existing trees on the site prior to development. The site did not meet the City's 12 trees per acre standard prior to being developed (TMC 16.08.070.R.4). The city allows tree replanting at a 1:1 ratio as a condition of project approval.

7. PROTECTION OF TREES BEING RETAINED

In our opinion, the only requirement would be to stake and ribbon the boundary of Tree "Tract D."

8. ADDITIONAL TREES TO BE PLANTED

As currently planned, 363 additional trees (363 x 1) will need to be planted to meet the tree ordinance standards. The replacement trees will be planted within the exterior of Tract A Storm Pond (25 trees), Tract B Storm Pond (29 trees) and 75 street trees.

The remainder of the trees to be mitigated will be planted in the exterior landscape buffers of the individual lots when they are developed. The landscape/tree replanting plan attached to this report demonstrates that the City's minimum tree replanting requirements outlined in TMC 16.08 will be exceeded.

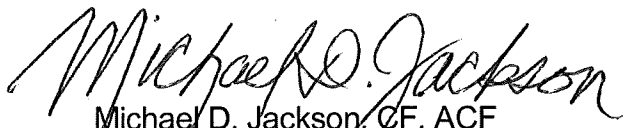
9. DEPARTMENT OF NATURAL RESOURCES PERMIT

Any additional clearing permits will need to be approved by City of Tumwater.

Once any land-clearing permit is approved by the City of Tumwater and **before additional land-clearing begins**, PFSI will meet on-site with the owner or owner's representative to make sure the boundaries of Tree Tract D are marked.

If further information is needed in regard to the trees on this site, please contact us.

Sincerely,



Michael D. Jackson, CF, ACF
Professional/Certified Forester #1244

Enclosure: Map Exhibit I

MDJ: dkd

