



Urban Forestry Services, Inc.

Arboricultural Consulting | Wholesale Tree Nursery

Title: Permit Number 2016-ARP-0040, Nor Wes Property
Site Plan Review, Lake Forest Park, WA

Prepared For: Lee MacArthur
Parcel #4022903193

Copy to: Andrea Flowers, Principal Planner
Jake Tracy, Assistant Planner
City of Lake Forest Park Planning & Building Department
17425 Ballinger Way NE
Lake Forest Park, Washington 98155

Prepared By: Urban Forestry Services, Inc.
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Registered Consulting Arborist #472
ISA Certified Arborist® #RM-451A
ISA Tree Risk Assessment Qualified

Date: October 26, 2016

Attachments: Assumptions and Limitations

This report is a follow up response to my earlier report regarding this site, dated October 18, 2016. In that report, I assessed two trees, #'s 25 and 28, near a proposed driveway to the house on Parcel #4022903193. Based on the original layout of the driveway, tree #28 would have to be removed to accommodate the driveway. Because Tree 28, was a large healthy Douglas Fir, and a better candidate for retention than Tree #25, a big leaf maple, I proposed possibly moving the driveway at least 7-feet west and 10-feet north of Tree #28 to save that tree. This would require exposing roots at about that distance from the tree to evaluate potential roots growing under the driveway.

Over the last week, a contractor completed the excavation as I suggested and I was asked to return to the site to evaluate the exposed roots in the trench. From this site visit and my observations, I can report the following:

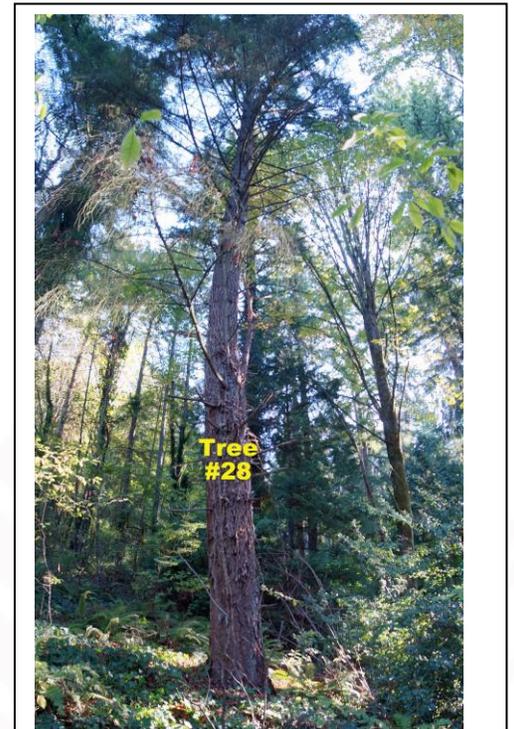


Photo 1. Tree #28

15119 McLean Road
Mount Vernon, WA 98273

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Findings

1. I observed no signs that significant root damage or exposure occurred during this work. Specifically:
 - Excavation exposed fine roots north of the tree in the trench 10-feet from the trunk. (Photo-2).
 - Excavation exposed three significant roots from 2-inch to 3-inch diameter in three locations west of the tree in the trench 7.5-feet from the trunk. (Photo-3, Photo-4).
 - Tree #25, the big leaf maple (*Acer macrophyllum*) appears to have structural roots traveling upslope under the driveway location.
 - The proposed relocation of the driveway would significantly impact tree #25, the big leaf maple.

Recommendations

1. Remove Tree #25, the big leaf maple.
2. Tree protection fencing for tree 28 should be installed 10-foot north of the tree and 7-feet west of the tree prior to work.
3. Soil or other material above grade and within tree protection fencing should be removed.
4. Due to the presence of fine roots north of the tree #28 trunk, a new driveway shall be installed no closer than 10-foot north of the trunk.
5. West of the tree, the driveway shall be installed no closer than 7-feet from the trunk of the tree.
6. The following measures are recommended for driveway installation west of the tree.
 - Cut the 2-inch diameter root just below grade and WNW of the tree (Photo-3). The root should be cut with a hand or reciprocating saw.
 - Level soil surface.
 - Create a load support surface for the new driveway by using products such as Geoweb. The benefit and reason for recommending the use of this product is that the subgrade preparation does not have to excavate as deep as would be necessary when installing a typical driveway roadbed. Please call me for any questions.



Photo 2. Tree #28 with fine roots north of trunk.



Photo 3. Tree #28 with exposed root WNW of tree.

