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December 18, 2019

Josh Thurman
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RE: Inventory report for trees at 9027 SE 60th ST on Mercer Island

On Thursday December 12th I met with Josh Thurman at the property of the above address to discuss the trees at this address and the future tear down and construction. I did a level 2 assessment of the trees and tagged each tree with a numbered metal tag. Trees were measured for dbh, height, drip line radius, health and vigor, location, and retention yes or no. Tools used were a diameter tape, 100' measuring tape for drip line radius and diameter and Forestry Pro laser for height. Overall condition was noted for spread sheet.

Tree #1 is a Douglas Fir tree (**Exceptional tree**), located on neighbors property on west side (9039 SE 60th St) This tree is of good health and vigor with a dbh of 38" and height of about 100' and a drip line radius of 25' measured from the base of the tree. The limit of disturbance would be 2/3 of that number at (16.5').

Tree #2 is a Douglas Fir (**Exceptional Tree**), located on the south side of the property on the neighbor's side of fence. 9026 SE 61st St. Tag was placed on the fence. This is a co-dominant tree with 2 stems of 30" dbh, tree is about 100' in height with a drip line radius of 19' This tree is of good health and vigor and is outside the limit of disturbance (12.5') for new construction.

Tree #3 is a mature Cherry tree (**Exceptional tree**), located on the west side of the back yard. It is of fair health and vigor with a dbh of 29" and a height of 30' and a drip line radius of 14' This tree is to be pruned for health and beauty. It is outside the limit of disturbance (9.5') for any new construction.

Tree #4 is a Pine tree (**Not exceptional tree**), located on the west side of the property. It is of fair health and vigor with a dbh of 14" and a height of 45' and drip line radius of 9'. It is outside the limit of disturbance (6') of any new construction.

Tree #5 is a large Fir tree (**Exceptional Tree**), located on the west side and next to the existing house. It is of good health and vigor and has a 32" dbh and a height of 100' and a drip line radius of 18'. Even with a limit of disturbance of (12'), it will still be inside the new construction zone. This tree will need to be removed.

Tree #6 is a Pine tree (**Not exceptional tree**), located on the west side of the property. It is of fair health and vigor with a dbh of 11" and height of 45' and drip line radius of 8'. The limit of disturbance (5') is outside the proposed new construction.

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Tree #7 is a Pine tree (**Not exceptional tree**), located on the west side of the property. It is of fair health and vigor and has a dbh of 14” and height of 50’ with a drip line radius of 9’. The limit of disturbance (6’) is outside the proposed new construction project.

Tree #8 is a Fir tree (**Exceptional tree**), located on the 60th St street side of the property and nest to the primary power lines. It is of good health and vigor but has been trimmed on one side for power line clearance. It has a dbh of 34” and a height of 100’ and a drip line radius of 17’. The limit of disturbance (11.5’) is outside the proposed new construction.

Tree #	Species	Name	DBH (Over 24”)	Height	Drip Line Radius	Condition	Exceptional Tree	L.O.D.	Retain Yes / No
1	Douglas Fir	Pseudotsuga menziesii	38”	100’	25’	Good	Yes	25’	Yes
2	Douglas Fir	Pseudotsuga menziesii	30” x 2	100’	19’	Good	Yes	19’	Yes
3	Cherry	Prunus avium	29”	30’	14’	Fair	Yes	14’	Yes
4	Pine	Pinus contorta	14”	45’	9’	Fair	No	9’	Yes
5	Douglas Fir	Pseudotsuga menziesii	32”	100’	18’	Good	Yes	18’	No
6	Pine	Pinus contorta	11”	45’	8’	Fair	No	8’	Yes
7	Pine	Pinus contorta	14”	45’	9’	Fair	No	9’	Yes
8	Douglas Fir	Pseudotsuga menziesii	34”	100’	17’	Good	Yes	17’	Yes

DBH in RED denotes trees over 24”

RESPONSE TO COMMENTS FROM CITY ARBORIST ON REPORT.

1. All trees have been identified as either exceptional or not exceptional in notes and spread sheet.
2. Eastside Tree Works is a full service tree care company and will not be doing any tree work for this project. Ron Paquette is a certified Arborist of over 20 years and is also a qualified tree risk assessor. He worked for the city of Seattle Parks and Recreation for 12 years, involved in all aspects of tree care including protection, planting and maintaining of trees after being planted and inventoried.
3. Any trees that will need to be planted to replace removed trees will be supervised by an arborist from a reputable tree service or nursery not associated with Eastside tree Service.
4. Same as #3
5. All trees are identified as Exceptional or Not Exceptional in summery comments and spread sheet.
6. All species are identified in summery and comments and spread sheet.
7. Tree protection guidelines provided in attached sheet.

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8. Chain Link Fence to be set around ALL trees retained in report at drip line radius or limit of disturbance called out in report.
9. Exceptional trees are identified in summary and spread sheet. 2 of the trees, #1 & #2 are on neighboring property's but have critical root zones that extend into project property. All trees are numbered with metal tags and identified on spread sheet, summary page, and sight map.
10. Tree #5 is proposed to be removed as it is inside the footprint of the proposed new construction project. All other trees are to be retained and proper tree protection measures taken. Removal of this tree will not impact the stability or health of any other trees in this property.

Sincerely,



Ron Paquette
Certified Arborist PN5728-A
Qualified Tree Risk Assessor (TRAQ)
Eastside Tree Works
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206-396-9998 Office
ron@eastsidetreeworks.com

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TREE PROTECTION MEASURES

The following guidelines are recommended to ensure that the designated space set aside for the preserved trees is protected and construction impacts are kept to a minimum. Standards have been set forth under BMP T101 –

Tree protection Requirements. Please review these standards prior to any development activity.

1. Tree protection fencing shall be erected per the attached plan prior to moving any heavy equipment on site. Doing this will set clearing limits and avoid compaction of soils within root zones of retained trees.
 2. Excavation limits should be laid out in paint on the ground to avoid over excavating.
 3. Excavations within the drip-lines of retained trees shall be monitored by a qualified tree professional so necessary precautions can be taken to decrease impacts to tree parts. A qualified tree professional shall monitor excavations when work is authorized in the critical root zone.
 4. To establish sub grade for foundations, curbs and pavement sections near the trees, soil should be removed away from the root system and not at 90 degree angles to avoid breaking and tearing roots that lead back to the trunk. Any roots damaged during these excavations should be exposed to sound tissue and cut cleanly with a saw. Cutting tools should be sterilized with alcohol.
 5. Areas excavated within the drip-line of retained trees should be thoroughly irrigated weekly during dry periods.
 6. Preparations for final landscaping shall be accomplished by hand within the drip-lines of retained trees.
- Large equipment shall be kept outside of the tree protection zones.



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47.54894 -122.21770 Degrees

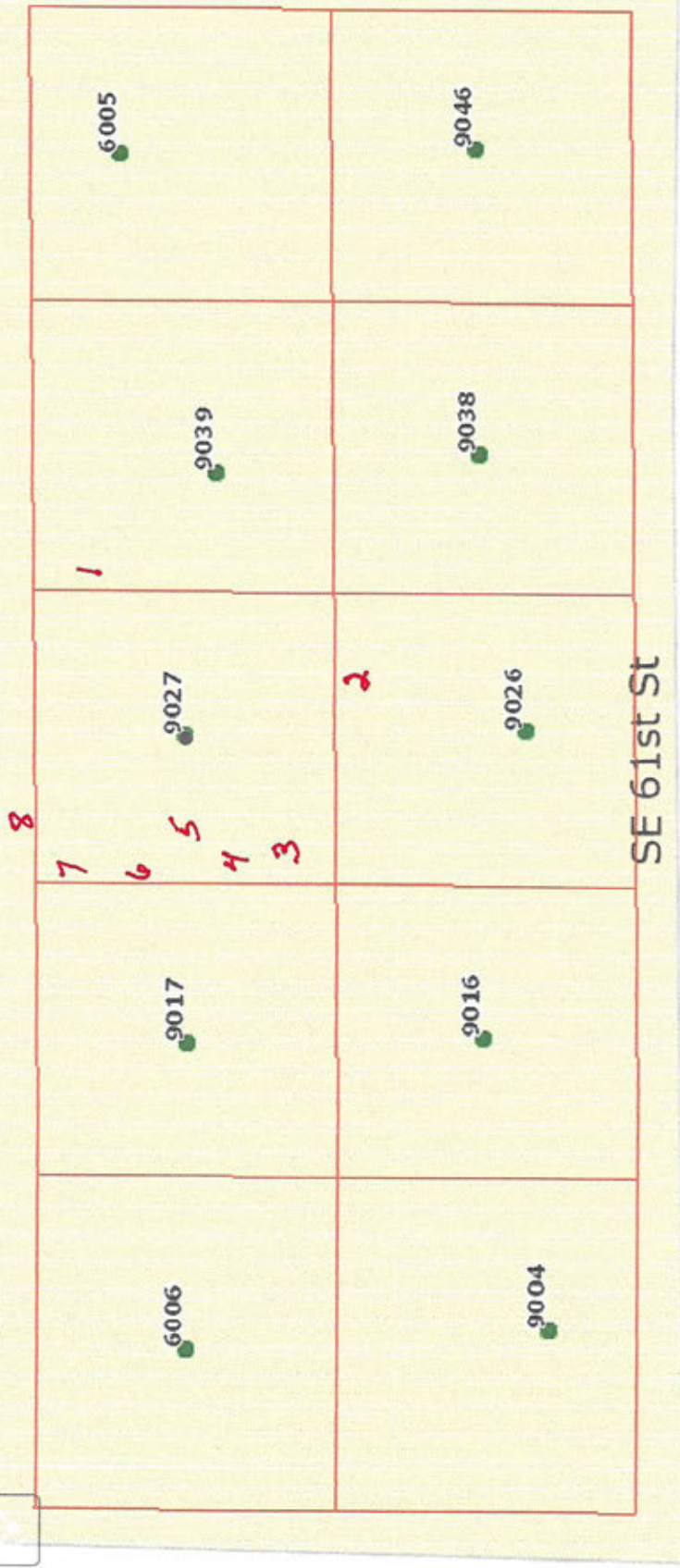


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9027 SE 60th st X Q

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SE 61st St



47.54878 -122.21760 Degrees

Additional Information. The City Arborist or Code Official may require additional documentation, plans, or information as needed to ensure compliance with applicable City regulations.

1. Tree #1 is exceptional. Although the Arborist report and plans do not state so. It is also in good health and over 24" in diameter. Exceptional trees must be retained and building pad moved outside trees limits of disturbance, unless removal justified under Per MI19.10.060.3.b.

Architect to provide this justification if it applies.

Preliminary first round comments, not required for intake. Additional comments may be provided after further review.

2. The tree report was created by a tree removal company. Provide a statement that this company will not be removing any trees on this property. And confirm Arborist has a minimum of three (3) years' experience working directly with the protection of trees during construction and the following.

3. Have experience with the likelihood of tree survival after construction. And

4. Be able to prescribe appropriate measures for the preservation of trees during land development Or provide a report from an Arborsit not associated with a tree company.

5. Arborist report does not mention exceptional trees. Exceptional trees need to be identified in the report and the plans. These trees must be protected.

6. All trees species must be provided.

7. Move silt fence and clearing limits outside tree protection fencing.

8. Call out chain link fence for all exceptional trees.

9. Resubmit Tree Inventory Worksheet. It states there is no exceptional trees on site. This is inaccurate. Also do not include off site trees for calculating percentage of trees to be retained. Numbering on this worksheet does not reflect Arborist report.

<http://www.mercergov.org/files/MercerIslandTreeInventory.pdf>

INTAKE COMMENTS TREES	Reviewer	John Kenney
	Email	John.Kenney@mercergov.org
	Status	Not Accepted – Resubmit Entire Submittal Package for Reviewer Approval
	Submittal	First Intake Screening

If a box is checked, please provide the information in your next submittal

SUBMITTAL ITEMS

1. The Mercer Island Tree Inventory Form

- Provide the City's Mercer Island Tree Inventory Form

2. Arborist report/tree inventory

- Provide an Arborist report, prepared by a qualified Arborist. Include the following information in the arborist report.
- 1. Description of how the arborist meets the threshold requirements for Qualified Arborist.
 - 2. A complete description of each tree's diameter, species, critical root zone, limits of allowable disturbance, health, condition, and viability.
 - 3. A description of the method(s) used to determine the limits of allowable disturbance (i.e., critical root zone, root plate diameter, or a case-by-case basis description for individual trees).
 - 4. Any special instructions specifically outlining any work proposed within the limits of disturbance protection areas (i.e. hand-digging, air space, tunneling, root pruning, any grade changes, clearing, monitoring, and aftercare).
 - 5. For trees not viable for retention, a description of the reason(s) for removal based on poor health, high risk of failure due to structure, defects, unavoidable isolation, windfirmness, unsuitability species, etc. If there is no reasonable alternative action (pruning, cabling, etc.) possible, replacement recommendations must be given.
 - 6. Describe the impact of necessary tree removal on the remaining trees, including those in a grove or on adjacent properties.
 - 7. Describe timing and installation of tree protection measures. Such measures must include fencing and be in accordance with the tree protection standards as outlined in MICC 19.10.
 - 8. The suggested location and species of replacement trees to be used when required. The report shall include planting and maintenance specifications to ensure long term survival.
 - 9. **A Tree Inventory** containing the following:
 - a. A numbering system of all existing large trees on the property (with corresponding tags on trees). The inventory shall also include large trees on adjacent property with driplines or critical root zones extending into the property.
 - b. Tree size (diameter).
 - c. Proposed tree status (retained or proposed for removal).
 - d. Tree type or species.
 - e. Identify all Exceptional trees and differentiate between those less than 24 inches and those greater than or equal to 24 inches in diameter.
 - f. Brief general health or condition rating of each tree (i.e. poor, fair, good, etc.).

3. Site/tree retention plan

Indicate the following on all civil/utility and grading sheets. If there are no civil sheets indicate on the architectural site plan

- 1. Location of all proposed improvements (building footprint, access, utilities, buffers, required landscape areas).
- 2. Surveyed location of all large trees and Exceptional trees on the property
- 3. Show the critical root zone of Large trees on adjacent properties if driplines extend over the subject property line.

- 4. Trees labeled corresponding to the tree inventory numbering system on the Mercer Island Tree Inventory Form.
- 5. Identify Exceptional trees using different symbols for trees less than 24 inches and trees greater than or equal to 24 inches.
- 6. Location of tree protection measures.
- 7. Limits of excavation near potential saved trees (e.g. excavation limits for building foundation).
- 8. Indicate clearing limits/limits of disturbance (LOD) around all trees potentially impacted by site disturbances - grading, demolition, construction activities (including approximate LOD of off-site trees with overhanging driplines), etc.
- 9. Proposed tree status (trees to be removed or retained) noted by an 'X' for removal.

4. Replanting plan

- Provide the Replanting plan showing proposed locations of any required replacement trees.

PEER REVIEW AND CONFLICT OF INTEREST

A peer review of the tree permit application by a qualified arborist may be required to verify the adequacy of the information and analysis. **The applicant shall bear the cost of the peer review.**

The City Arborist may require the applicant retain a replacement qualified arborist or may require a peer review where the City Arborist believes a conflict of interest may exist.

For example, if an otherwise qualified arborist is employed by a tree removal company and prepares the arborist report for a development proposal, a replacement qualified arborist or peer review may be required.

ARBORIST QUALIFICATION

For tree reviews associated with a development proposal, a qualified arborist must have

- A minimum of three (3) years' experience working directly with the protection of trees during construction
- Have experience with the likelihood of tree survival after construction
- Be able to prescribe appropriate measures for the preservation of trees during land development
- ISA Tree Risk Assessment Qualification
- Your qualified arborists must have at least one (1) of the following credentials:
 - ISA Certified Arborist;
 - ISA Certified Arborist Municipal Specialist;
 - ISA Board Certified Master Arborist;
 - American Society of Consulting Arborists (ASCA) registered Consulting Arborist;
 - Society of American Foresters (SAF) Certified Forester for Forest Management Plans;

ADDITIONAL INFORMATION

Additional Information. The City Arborist or Code Official may require additional documentation, plans, or information as needed to ensure compliance with applicable City regulations.

See below comments.