



March 29, 2023

Project No. 21071

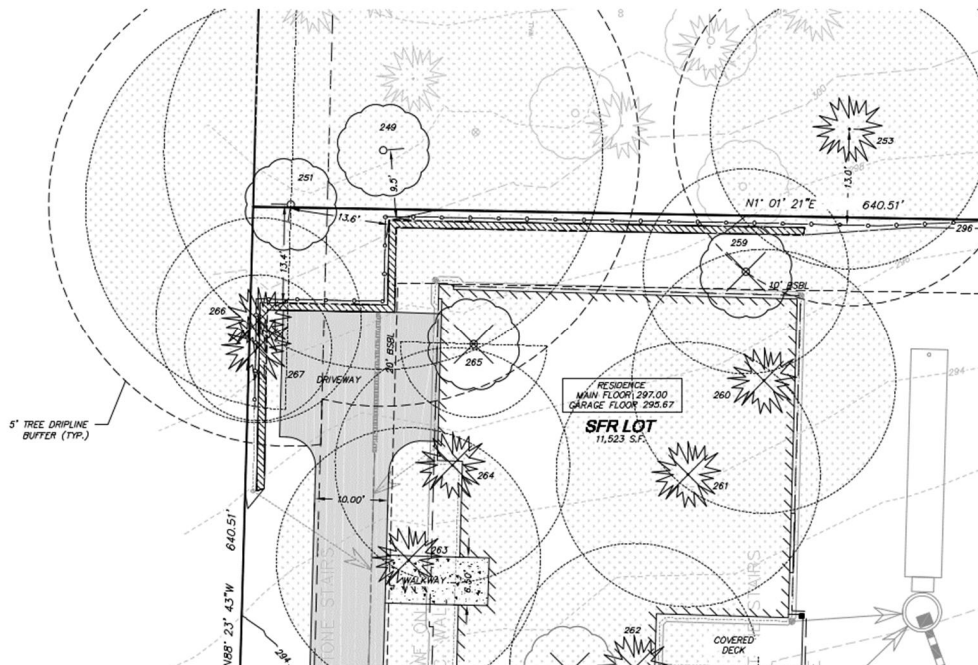
John Kenney
City Arborist, ISA Municipal Specialist #PN-6601AM, Qualified Tree Risk Assessor
City of Mercer Island
Community Planning and Development
9611 SE 36th Street
Mercer Island 98040

**Re: Tree Retention 2207-122 (Design Built Homes - 8427 SE 47th St)
Request for Information
8427 SE 47th St**

Dear Mr. Kenney,

This letter is provided as response to an email dated March 15, 2023 requesting information regarding the location of a retaining wall proposed in the Project mentioned above at 8427 SE 47th St.

The proposed development plans for the Project involve the clearing and grading of the existing Site and constructing a new residence, new utility and drainage connections, a driveway accessed from SE 47th St and retaining walls. The retaining wall in question is proposed at the northeast corner of the Site. This particular retaining wall was proposed to avoid a slope in the northeast corner that would require a steep slope draining down toward the proposed residence. The slope would also require grading within the critical root zone of Tree #251 as well as raising the garage finished floor elevation. The proposed retaining wall eliminates further development in the proximity of Tree #251 (shown below).



620 7th Ave.
Kirkland, WA 98033-5565
Phone: (425) 827-3063
Fax: (425) 827-2423
Toll Free: (800) 962-1402

In an email dated March 6, 2023, it was stated by Susan Prince, ISA Certified Arborist #1481, TRAQ Certified Arborist #481, that under her supervision, Todd Sherman (the Client) air-
evacuated the soil to expose the roots of Tree #251. There was one 5-inch diameter structural root that was 13 feet from the trunk on one side of the tree and no real structural roots on the other impacted side.

Based on the information provided, D.R. STRONG Consulting Engineers altered the proposed retaining wall to be 13 feet from the property line which is over 13 feet from the center of the tree trunk of Tree #251 (as shown in the image above). If the wall were to move farther west, it would eliminate driveway area leading into the proposed garage. This would create an impossible scenario for the future residents to utilize the entire garage and back out safely without obstruction. If the foundation were to move farther west, it would encroach upon the locations of the proposed sewer and storm pipes.

If you have any questions, please do not hesitate to contact me.

Sincerely yours,
D. R. STRONG Consulting Engineers Inc.

Jeffrey S. Eisenhour, EIT
Sr. Design Engineer

JSE

Enclosure

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