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Ben Mulder Designer & Partner 4D architects

RE: Dhaliwal/Klar residence results from air-spade root inspections 7024 SE 20th Mercer Island, WA.

On 3/31/23, ArboristsNW LLC excavated areas of possible root encroachment on two exceptional trees. The air-spade method was used to expose the areas of proposed encroachment. Trees 1 & 4 were the target root systems. Pictures and a site drawing are included below.

Tree #1, An exceptional Western Red Cedar, I had stated earlier that the existing foundation would have restricted the roots of T 1 from extending to their full extent and would have been stopped at the edge of the concrete. In fact, after making an 18" deep trench with the air spade, no roots were found at all. It appears from the soil in the trench next to the existing foundation that the soil was a fill, and any roots had been cut/rerouted some time ago a foot or more from the existing cement. As such, with the design of your building as is, construction will not affect the tree's health. What will need to be done is the placing of a 5-6" deep layer of mulch over the root place as drawn and then covered by plywood or expanded metal for the duration of construction.

T #4, An exceptional Western Red Cedar. Findings for the 3 locations needed for pillars to keep the proposed deck off the surface; no roots were found around point #1 on the included site map. A 6-7" wide and 18" deep trench was made for this observation. In the point #2 area, roots were exposed but found to be no bigger than 3/8" and few in number with a liberal spacing. One root1.5-2" was located north of a pillar location and will not be affected. It is my opinion that it is possible to expose more of the roots that were found and that this will allow for the careful flexing of the roots out of the way of the proposed pillar locations. The root plate, as shown on the site drawings, is to be covered in that 5-6" of mulch and covered as T #1, again for the project's life.

Project arborist to be on site for the placement of tree protection measures installation and during deck pillar placement.

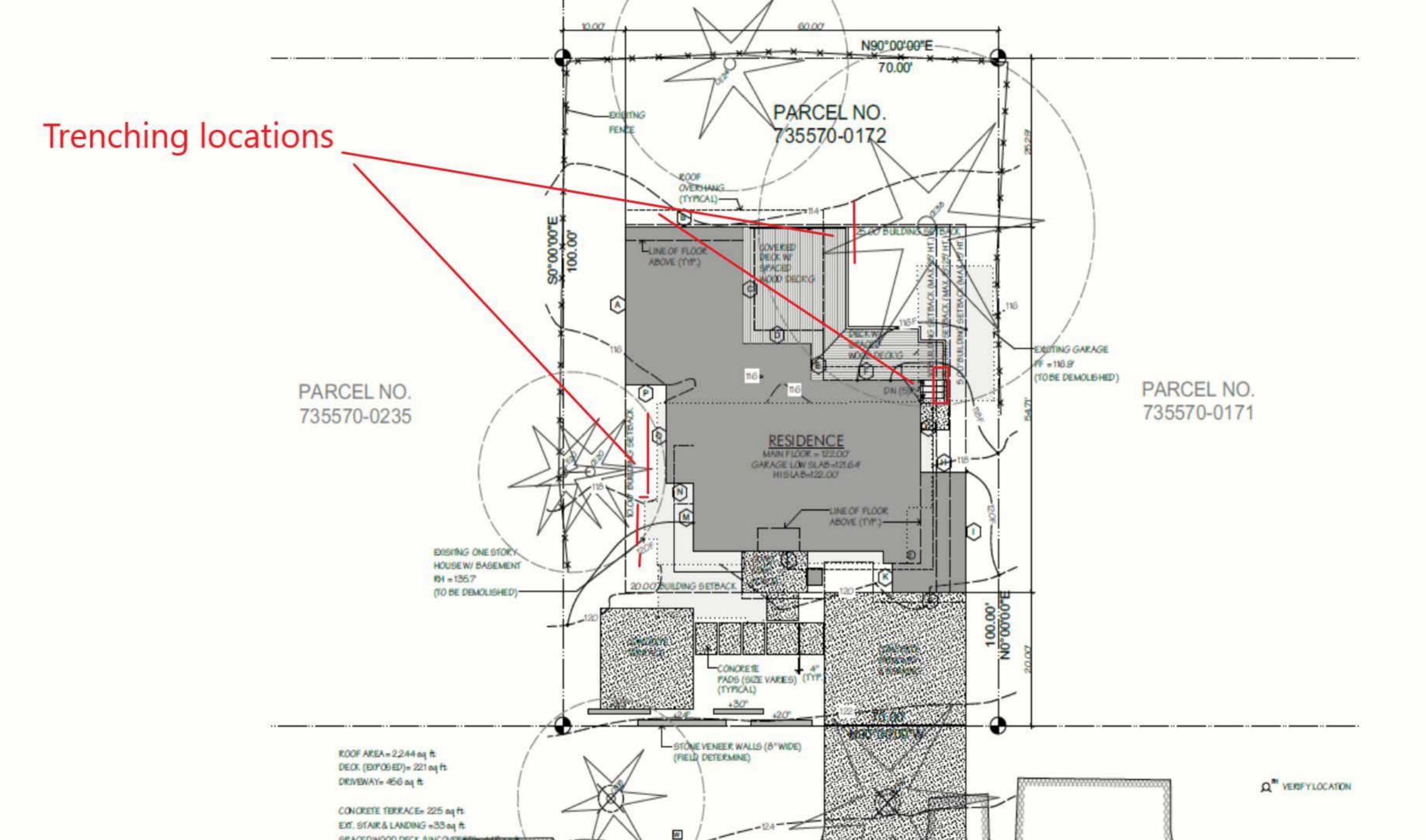
4/5/23

Respectfully Submitted

Neal Baker ArboristsNW.com ISA Cert. PN1075A

TRAQ ISA (Tree Risk Assessment Qualified)

Member AREA & SOCA



HARD

MICC 19.00 MAXIMUM

DECK:::
WALK/PAS
LANDSCA

LOTS

HIGH POINT LOW POINT DISTANCE SLOPE: 9

ROOF ARE

TERRACE WALKWAY EXTERIOR UNCOVERS

TOTAL IM
PERCENT

STR BLDG. FO LOT AREA

PERCENT MAX PER

EX

B) 114.1

E) 115.1

G 116.1

119.1 SUM OF E

AVG. EXIS

PRO











