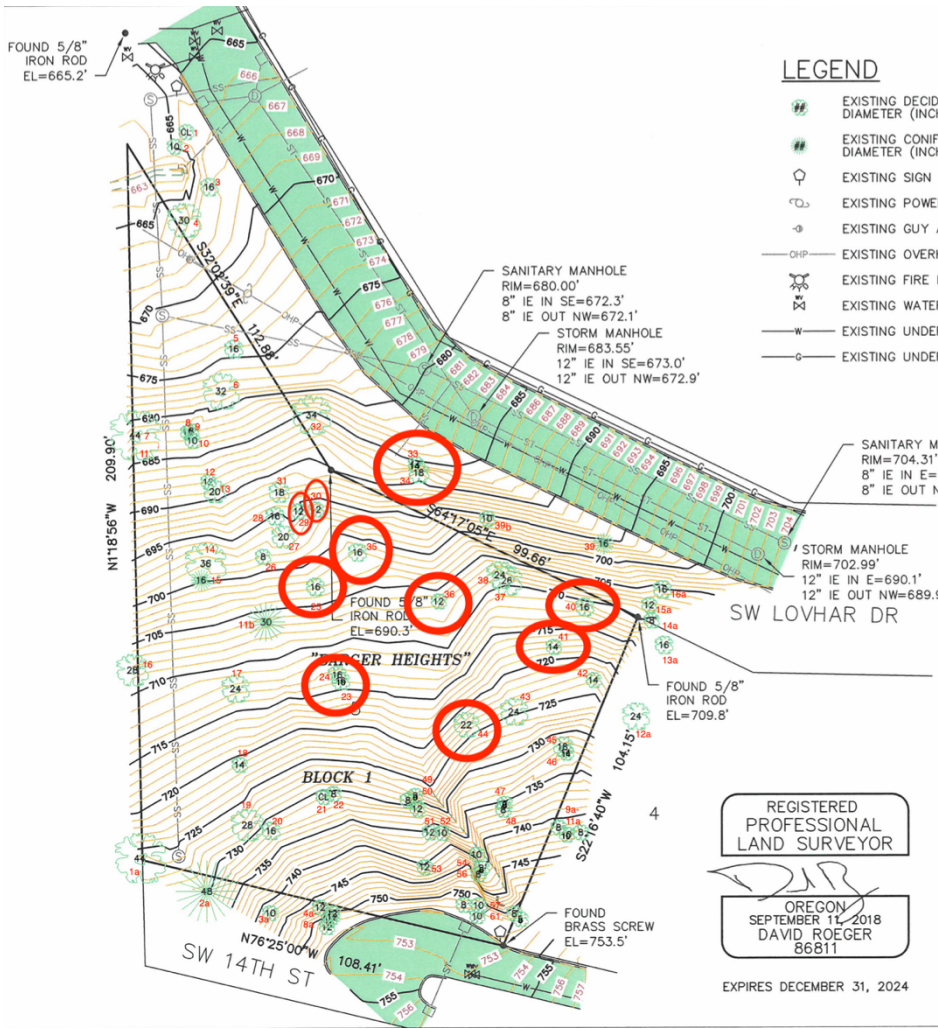


Site map



LEGEND

- EXISTING DECIDUOUS TREE W/ TRUNK DIAMETER (INCHES)(CL=CLUSTER)
- EXISTING CONIFEROUS TREE W/ TRUNK DIAMETER (INCHES)(CL=CLUSTER)
- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING GUY ANCHOR
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING UNDERGROUND WATER
- EXISTING UNDERGROUND GAS LINE
- EXISTING CATCH BASIN
- EXISTING PVC CULVERT
- EXISTING CONCRETE CULVERT
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- FOUND MONUMENTS
- EXISTING STREAM
- EXISTING ASPHALT



SCALE 1" = 30'

NOTES

1. THE PURPOSE OF THIS MAP WAS TO SHOW THE EXISTING CONDITIONS FOR LOT 5, BLOCK 1, "BARGER HEIGHTS".
2. THE BASIS OF BEARINGS WAS PER THE PLAT OF "BARGER HEIGHTS" MULTNOMAH COUNTY RECORDS.
3. LOCAL DATUM WAS ESTABLISHED BY APPROXIMATE CITY OF GRESHAM LIDAR CONTOUR DATA.
4. THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF FIRWOOD DESIGN.
5. THIS MAP WAS PREPARED BY PLAT RECORDS, CALCULATED DATA, AND FIELD MEASUREMENTS, A RECORDED BOUNDARY SURVEY WILL NOT BE FILED AT THIS TIME.
6. ALL UTILITY LOCATIONS ARE SHOWN BY ABOVE GROUND FEATURES AND LOCATION OF PAINT MARKS SUPPLIED BY THE LOCAL UTILITY COMPANIES. CMT TAKES NO RESPONSIBILITY OF UNDERGROUND LOCATION. PLEASE NOTIFY THE UTILITY NOTIFICATION CENTER BEFORE ANY DIGGING 1-800-332-2344.

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
SEPTEMBER 11, 2018
DAVID ROEGER
86811

EXPIRES DECEMBER 31, 2024

EXISTING CONDITIONS	
NW 1/4 SEC 15, T1S, R3E, W.M.	
CITY OF GRESHAM	
MULTNOMAH COUNTY, OREGON	
JUNE 15, 2023	
DRAWN: DMR	CHECKED: SPF
SCALE 1"=30' ACCOUNT # 364	
Y:\364-013\DWG\364013BASE	

LOT 5, BLOCK 1
"BARGER HEIGHTS"

CMT SURVEYING AND CONSULTING
20330 SE HIGHWAY 212
DAMASCUS, OR 97089
PHONE (503) 850-4672 FAX (503) 850-4590

Tree #	Species	DBH	Health	Other	Tree #	Species	DBH	Health	Other
1	BLM	35"		2	1a	BLM	57"		1 Dying/ large basal cavity
2	BLM	10"		2	2a	DF	48"		2 Secondary leader lost/ removed
3	BLM	16"		2	3a	BLM	10"		2
4	BLM	30"		2	4a	BLM	12"		2
5	BLM	16"		0 snag/ dead	5a	BLM	12"		2
6	BLM	32"		2	6a	BLM	12"		2
7	BLM	44"		2	7a	Alder	12"		0 dead
8	BLM	19"		2 8-10 same tree	8a	Alder	12"		0 dead
9	BLM			8-10 same tree	9a	BLM	8"		2
10	BLM			8-10 same tree	10a	BLM	10"		2
11	Chestnut	16"		2 added to inventory	11a	BLM	8"		2
12	BLM	26"		2 12&13 same tree	12a	BLM	24"		2
13	BLM				13a	BLM	16"		2
14	BLM	36"		2	14a	BLM	8"		2
15	DF	16"		2 suppressed by maple	15a	BLM	12"		2
16	BLM	28"		1 large rib on trunk from torsion issue	16a	BLM	16"		2
17	BLM	24"		2					
18	BLM	14"		2					
19	BLM	28"		2					
20	BLM	16"		2					
21	Hawthorn	clump		2 nuisance					
22	BLM	8"		2					
23	BLM	26"		1 23& 24 same tree					
24	BLM			1 dying					
25	BLM	17"		1 dying					
26	BLM	8"		1 dying					
27	BLM	20"		2					
28	BLM	16"		2					
29	Cherry	11.5"		2 nuisance					
30	Alder	13.5"		0 dead					
31	BLM	18"		2					
32	BLM	32"		2					
33	BLM	23.5"		1 33&34 same tree					
34	BLM			33&34 same tree					
35	Alder	14.5"		0 dead					
36	BLM	12"		1 dying/ suppressed					
37	BLM	48"		2 37&38 same tree					
38	BLM			37&38 same tree					
39	DF	16"		2					
39b	BLM	10"		2					
40	Alder	16.5"		0 dead					
41	Alder	13.5"		0 dead					
42	Alder	14"		0 dead					
43	BLM	24"		2					
44	BLM	28"		1					
45	BLM	18"		2					
46	BLM	14"		2					
47	BLM	8"		2					
48	BLM	8"		2					
49	BLM	8"		2					
50	BLM	12"		2					
51	BLM	12"		2					
52	BLM	10"		2					
53	BLM	12"		2					
54	BLM	10"		2					
55	BLM	8"		2					
56	BLM	8"		2					
57	BLM	8"		2					
58	BLM	8"		2					
59	BLM	8"		2					
60	BLM	8"		2					
61	BLM	8"		2					

DF: Douglas fir, *Pseudotsuga menziesii*
 BLM: Big leaf maple, *Acer macrophyllum*
 Alder: Red alder, *Alnus rubra*
 Hawthorn: Hawthorn, *Crataegus monogyna*
 Chestnut: American chestnut: *Casteana dentata*
 Hemlock: Western hemlock, *Tsuga heterophylla*

0: Dead
 1: Poor/ Dying
 2: Fair (tree in good, average health)
 3: Excellent (Tree is outstanding, specimen)

Trees listed with "a" are outside surveyed property

Trees listed with "b" are added in field at time of inventory

"Same tree" are trees that have connected trunk but listed in survey as sepeate tree.

Inventory



Tree #23/24



Tree #23/24



Tree #23/24



Tree #23/24

ISA Basic Tree Risk Assessment Form

Client Koenig Date 8/2/23 Time 9a
 Address/Tree location SW Lehar Tree no. 23124 Sheet of
 Tree species Bigleaf maple dbh 26" Height 60' Crown spread dia. 30'
 Assessor(s) Matt Sanchez Tools used DBH Time frame 1yr

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1	Residents	no	x	x	x	2	no	no
2								
3								
4								

Site Factors

History of failures N/A Topography Flat Slope NA % Aspect NA

Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe

Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots % Describe NA

Prevailing wind direction E Common weather Strong winds Ice Snow Heavy rain Describe

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal Chlorotic Necrotic %

Pests/Biotic NA Abiotic NA

Species failure profile Branches Trunk Roots Describe included bark, short lived

Load Factors

Wind exposure Protected Partial Full Wind funneling NA Relative crown size Small Medium Large

Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss NA

Recent or expected change in load factors NA

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 50 % Cracks Lightning damage

Dead twigs/branches 50 % overall Max. dia. 10" Codominant Included bark

Broken/Hangers Number NA Max. dia. NA Weak attachments Cavity/Nest hole % circ.

Over-extended branches Previous branch failures Similar branches present

Pruning history Dead/Missing bark Cankers/Galls/Burrs Sapwood damage/decay

Crown cleaned Thinned Raised Conks Heartwood decay

Reduced Topped Lion-tailed Response growth NA

Flush cuts Other NA Condition(s) of concern Upper leader failure, dead branch break

Part Size 10" Fall Distance 60'

Load on defect N/A Minor Moderate Significant

Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color

Codominant stems Included bark Cracks

Sapwood damage/decay Cankers/Galls/Burrs Sap ooze

Lightning damage Heartwood decay Conks/Mushrooms

Cavity/Nest hole 40 % circ. Depth 7" + Poor taper

Lean NA Corrected? NA

Response growth NA

Condition(s) of concern Split @ Union

Part Size 26" Fall Distance 60'

Load on defect N/A Minor Moderate Significant

Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth NA Stem girdling

Dead Decay Conks/Mushrooms

Ooze Cavity % circ.

Cracks Cut/Damaged roots Distance from trunk

Root plate lifting Soil weakness

Response growth NA

Condition(s) of concern NA

Part Size NA Fall Distance NA

Load on defect N/A Minor Moderate Significant

Likelihood of failure Improbable Possible Probable Imminent

#23/24



Tree #25

Tree #25



ISA Basic Tree Risk Assessment Form

Client Koenig Date 8/3/23 Time 8a
 Address/Tree location SW Louhar Tree no. 25 Sheet of
 Tree species Bigleaf maple dbh 17" Height 60' Crown spread dia. 30'
 Assessor(s) Matt Sanchez Tools used DBU Time frame 1yr

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1-rare 2-occasional 3-frequent 4-constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1	Residents	no	x	x	x	2	no	no
2								
3								
4								

Site Factors

History of failures NA Topography Flat Slope NA % Aspect NA
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe NA
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots % Describe NA
 Prevailing wind direction E Common weather Strong winds Ice Snow Heavy rain Describe NA

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal % Chlorotic % Necrotic %
 Pests/Biotic NA Abiotic NA
 Species failure profile Branches Trunk Roots Describe included bark, short lived

Load Factors

Wind exposure Protected Partial Full Wind funneling NA Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss NA
 Recent or expected change in load factors NA

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 50 %
 Dead twigs/branches 50 % overall Max. dia. 10"
 Broken/Hangers Number NA Max. dia. NA
 Over-extended branches
 Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other NA
 Condition(s) of concern Half canopy is dead

Part Size 10" Fall Distance 60'
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

Cracks Lightning damage
 Codominant NA Included bark
 Weak attachments NA Cavity/Nest hole % circ.
 Previous branch failures NA Similar branches present
 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Conks Heartwood decay NA
 Response growth NA
 Condition(s) of concern NA

Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole % circ. Depth Poor taper
 Lean ° Corrected? NA
 Response growth NA
 Condition(s) of concern NA
 Part Size 17" Fall Distance 60'
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth NA Stem girdling
 Dead Decay Conks/Mushrooms
 Ooze Cavity NA % circ.
 Cracks Cut/Damaged roots Distance from trunk
 Root plate lifting Soil weakness
 Response growth NA
 Condition(s) of concern NA
 Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent



Tree #29

Nuisance cherry, *Prunus avium*. Foliage too high to easily photograph, bark lenticels used for ID



Tree #29



Tree #30

Visibly dead tree



Tree #30

Tree #33/34





Tree #33/34



Tree #33/34

ISA Basic Tree Risk Assessment Form

Client Koenig Date 8/3/23 Time 8~
 Address/Tree location SW Lovhar Tree no. 33/34 Sheet of
 Tree species Bisler maple dbh 23" Height 80' Crown spread dia. 50'
 Assessor(s) MAT Sanchez Tools used DRH Time frame 1yr

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1	High Voltage lines	none	X	X	X	4	no	no
2								
3								
4								

Site Factors

History of failures NA Topography Flat Slope NA % Aspect NA
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe NA
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots % Describe NA
 Prevailing wind direction E Common weather Strong winds Ice Snow Heavy rain Describe

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal % Chlorotic % Necrotic %
 Pests/Biotic NA Abiotic NA
 Species failure profile Branches Trunk Roots Describe included bark 1 short lived

Load Factors

Wind exposure Protected Partial Full Wind funneling NA Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss
 Recent or expected change in load factors NA

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 80 %
 Dead twigs/branches 20 % overall
 Broken/Hangers Number NA Max. dia. 10"
 Over-extended branches Max. dia. NA
 Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other
 Cracks NA Lightning damage
 Codominant NA Included bark
 Weak attachments NA Cavity/Nest hole NA % circ.
 Previous branch failures NA Similar branches present
 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Conks Heartwood decay
 Response growth NA
 Condition(s) of concern Dead/Downy tops fall in HV causing forest fire
 Part Size 10" Fall Distance 30'
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole NA % circ. Depth NA Poor taper
 Lean 10° Corrected? yes
 Response growth NA
 Condition(s) of concern Codominant lean fail
 Part Size 23" Fall Distance 9'
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth NA Stem girdling
 Dead Decay Conks/Mushrooms
 Ooze Cavity % circ.
 Cracks Cut/Damaged roots Distance from trunk
 Root plate lifting Soil weakness
 Response growth NA
 Condition(s) of concern NA
 Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

#33/34

Risk Categorization																	
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood							Consequences			Risk rating (from Matrix 2)				
			Failure			Impact				Failure & Impact (from Matrix 1)							
			Improbable	Possible	Probable	Very low	Low	Medium	High	Unlikely	Somewhat	Likely		Very likely	Negligible	Minor	Significant
1	Dead top/crown	Top fail on HV line			X						X					X	High
2	trunk	Codominant + Fail on HV line			X					X		X				X	High

Matrix 1. Likelihood matrix.

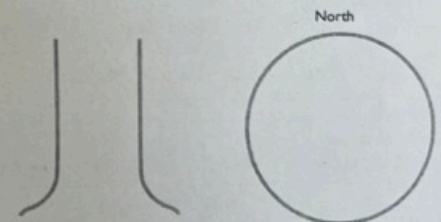
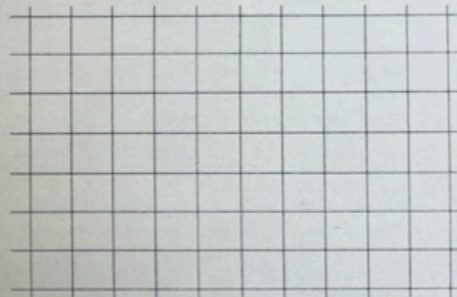
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Notes, explanations, descriptions

Proximity to high voltage coupled with lean + existing dieback makes this tree a fire risk



Mitigation options

1. Remove Residual risk None
2. Residual risk _____
3. Residual risk _____
4. Residual risk _____

Overall tree risk rating Low Moderate High Extreme Recommended inspection interval NA

Overall residual risk None Low Moderate High Extreme

Data Final Preliminary Advanced assessment needed No Yes-Type/Reason NA

Inspection limitations None Visibility Access Vines Root collar buried Describe NA

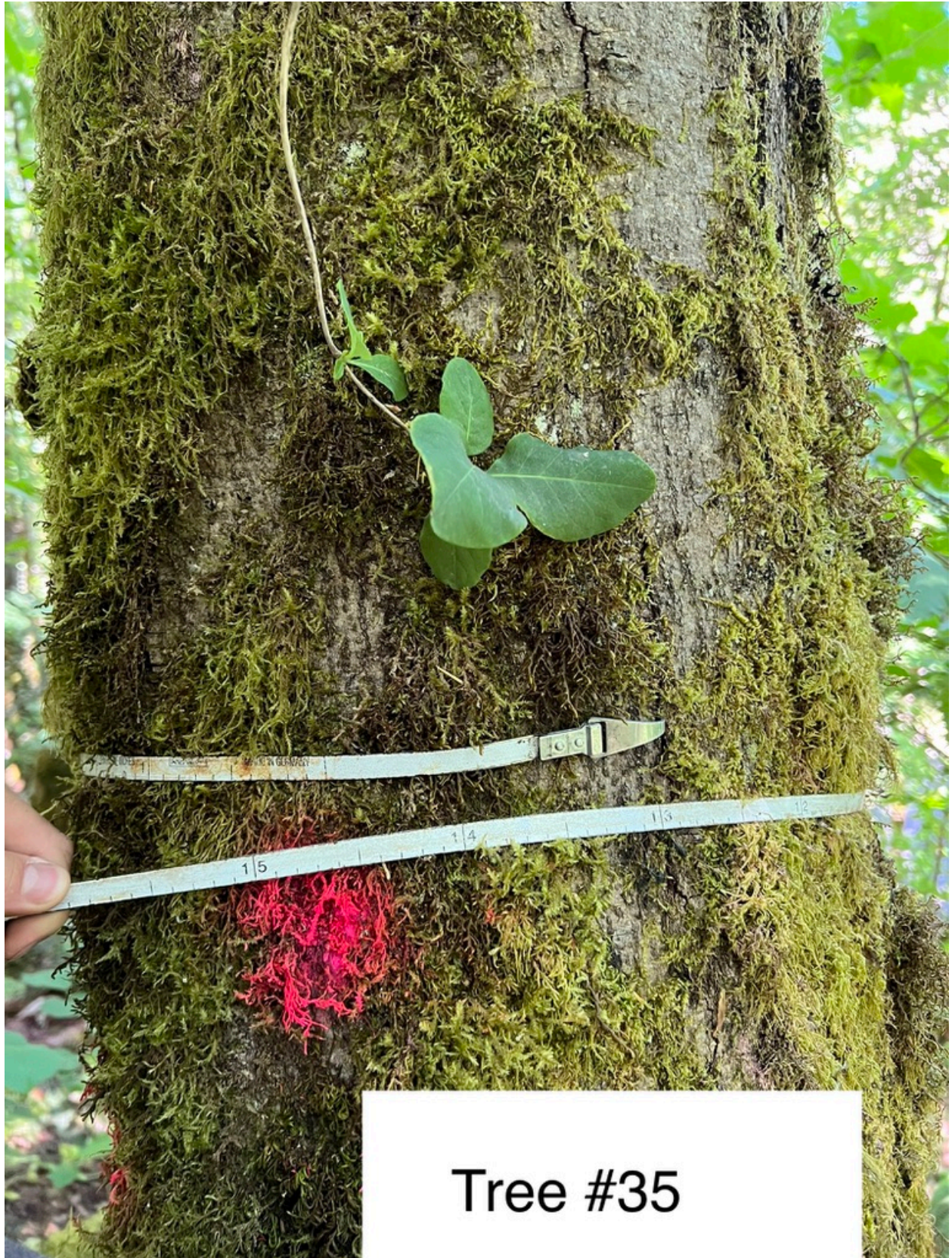


Tree #35

Visibly dead



Tree #36



Tree #35



Tree #36

ISA Basic Tree Risk Assessment Form

Client Kornig Date 8/3/23 Time 8a
 Address/Tree location SW Louhar Tree no. 36 Sheet of
 Tree species Bigleaf maple dbh 12 Height 45' Crown spread dia. 15'
 Assessor(s) MAH Sanchez Tools used bRH Time frame 1 year

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1	Residents	none	X	X	X	2	no	no
2								
3								
4								

Site Factors

History of failures NA Topography Flat Slope NA % Aspect
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe NA
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots NA % Describe NA
 Prevailing wind direction E Common weather Strong winds Ice Snow Heavy rain Describe NA

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal % Chlorotic % Necrotic %
 Pests/Biotic NA Abiotic NA
 Species failure profile Branches Trunk Roots Describe included bark short lived

Load Factors

Wind exposure Protected Partial Full Wind funneling NA Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss NA
 Recent or expected change in load factors loss of nearby canopy from other trees

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 95% Lightning damage
 Dead twigs/branches 5% overall Max. dia. NA Codominant NA Included bark
 Broken/Hangers Number NA Max. dia. NA Weak attachments NA Cavity/Nest hole % circ.
 Over-extended branches Previous branch failures NA Similar branches present
 Pruning history Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Crown cleaned Thinned Raised Conks Heartwood decay NA
 Reduced Topped Lion-tailed Response growth NA
 Flush cuts Other NA Condition(s) of concern NA

Part Size NA Fall Distance NA Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole % circ. Depth Poor taper
 Lean ° Corrected? NA
 Response growth NA
 Condition(s) of concern poor taper leads to wind throw
 Part Size 12" Fall Distance 45'
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth NA Stem girdling
 Dead Decay Conks/Mushrooms
 Ooze Cavity NA % circ.
 Cracks Cut/Damaged roots Distance from trunk NA
 Root plate lifting Soil weakness
 Response growth NA
 Condition(s) of concern NA
 Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

#36



Tree #36

ISA Basic Tree Risk Assessment Form

Client Kornig Date 8/3/23 Time 8a
 Address/Tree location SW Louhar Tree no. 36 Sheet of
 Tree species Bigleaf maple dbh 12 Height 45' Crown spread dia. 15'
 Assessor(s) MAH Sanchez Tools used bRH Time frame 1 year

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1	Residents	none	X	X	X	2	no	no
2								
3								
4								

Site Factors

History of failures NA Topography Flat Slope NA % Aspect
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe NA
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots NA % Describe NA
 Prevailing wind direction E Common weather Strong winds Ice Snow Heavy rain Describe NA

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal % Chlorotic % Necrotic %
 Pests/Biotic NA Abiotic NA
 Species failure profile Branches Trunk Roots Describe included bark short lived

Load Factors

Wind exposure Protected Partial Full Wind funneling NA Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss NA
 Recent or expected change in load factors loss of nearby canopy from other trees

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 95%
 Dead twigs/branches 5% overall Max. dia. NA
 Broken/Hangers Number NA Max. dia. NA
 Over-extended branches
 Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other NA
 Response growth NA
 Condition(s) of concern NA

Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole % circ. Depth Poor taper
 Lean ° Corrected? NA
 Response growth NA
 Condition(s) of concern poor taper leads to wind throw
 Part Size 12" Fall Distance 45'

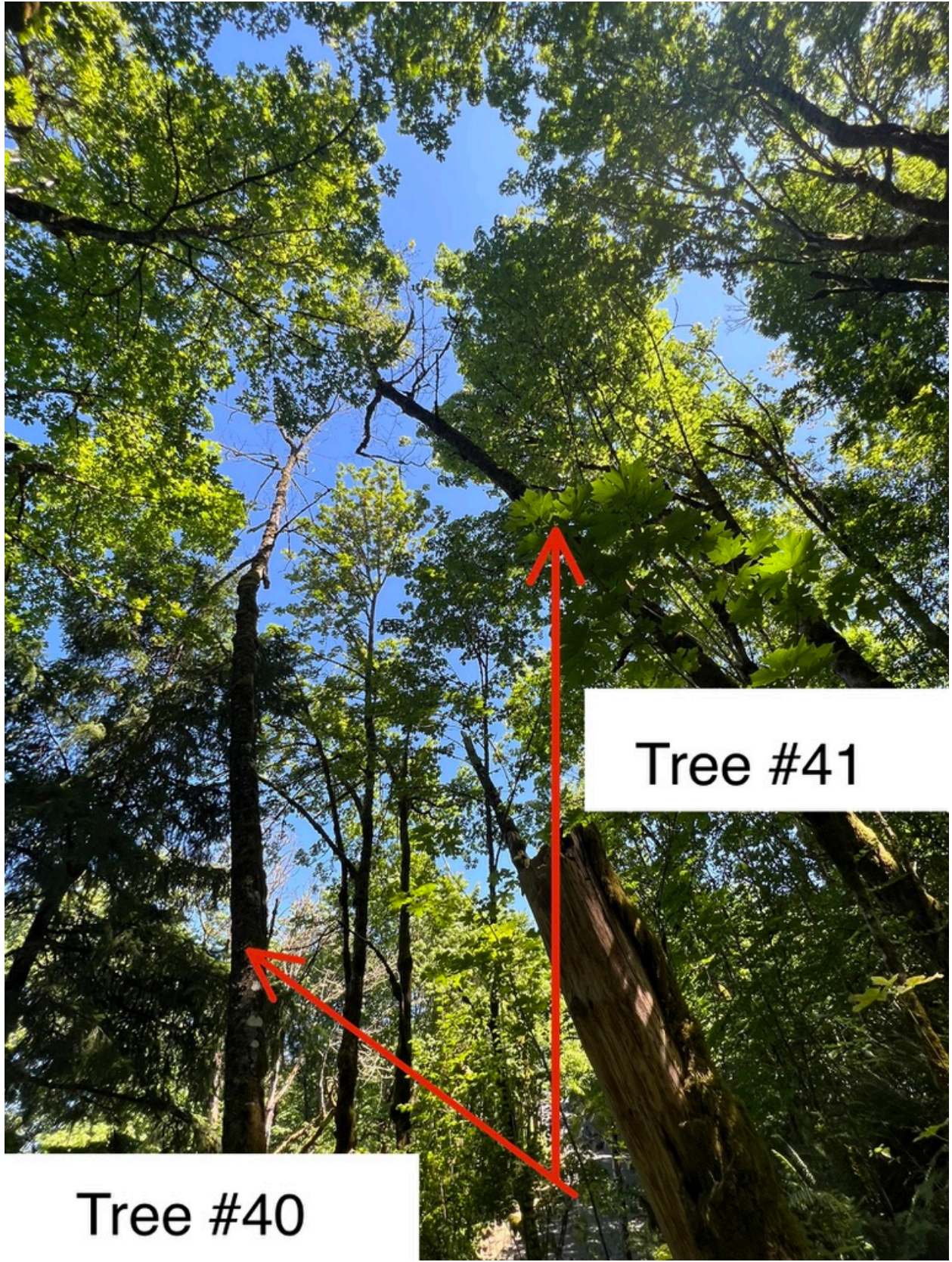
Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth NA Stem girdling
 Dead Decay Conks/Mushrooms
 Ooze Cavity NA % circ.
 Cracks Cut/Damaged roots Distance from trunk NA
 Root plate lifting Soil weakness
 Response growth NA
 Condition(s) of concern NA

Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

#36

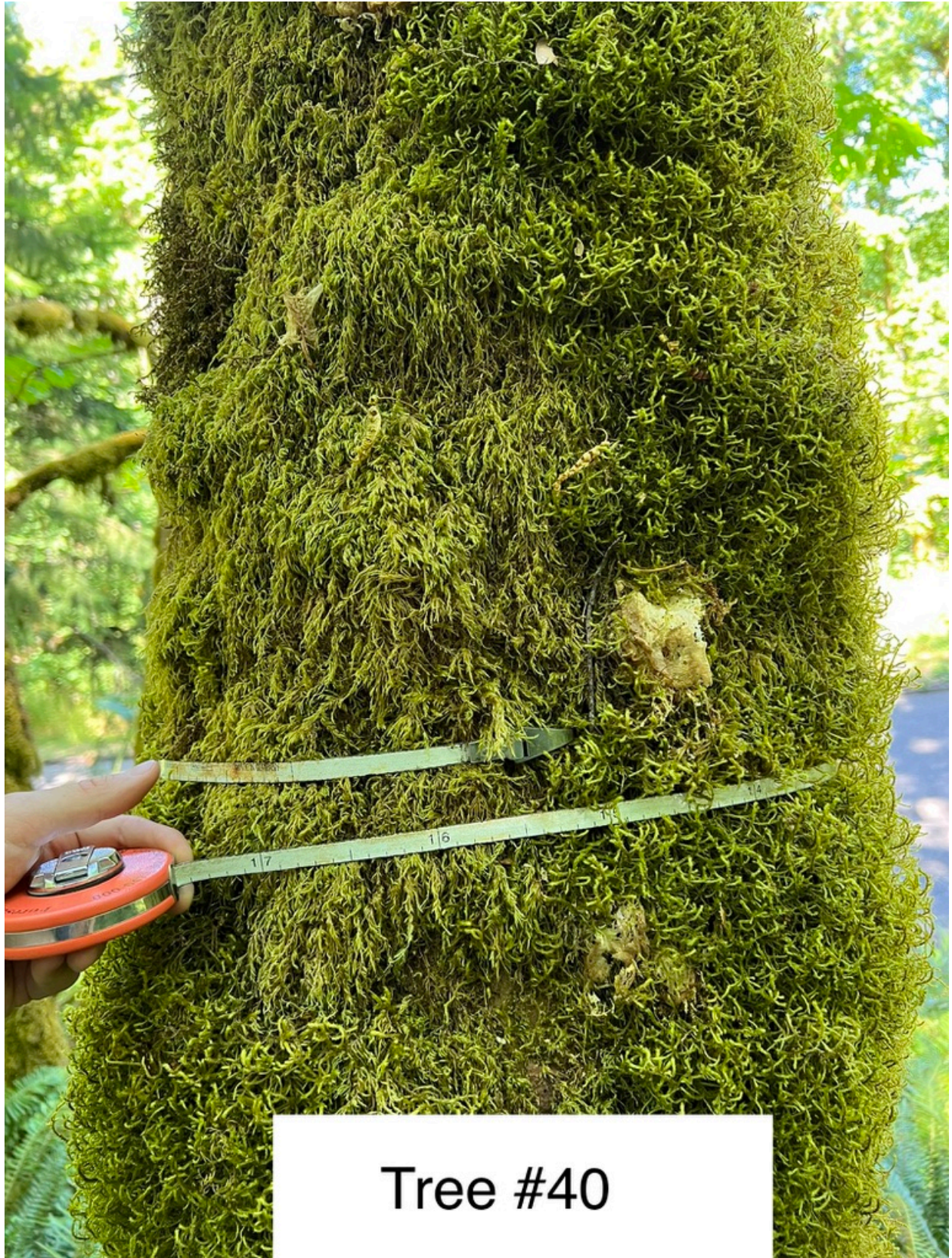


Tree #40

Tree #41



Tree #41



Tree #40



Tree #44



Tree #44

ISA Basic Tree Risk Assessment Form

Client Koenig Date 8/3/23 Time 8a
 Address/Tree location sw Louhar Tree no. 44 Sheet of
 Tree species Big leaf maple dbh 2e" Height 60' Crown spread dia. 50'
 Assessor(s) Matt Sanchez Tools used DBH Tape Time frame 1 year

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.			
1	Residents	none	Y	Y	Y	2	no	no
2								
3								
4								

Site Factors

History of failures NA Topography Flat Slope NA % Aspect
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe NA
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots NA % Describe NA
 Prevailing wind direction E Common weather Strong winds Ice Snow Heavy rain Describe NA

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal % Chlorotic % Necrotic %
 Pests/Biotic NA Abiotic NA
 Species failure profile Branches Trunk Roots Describe included bark, short lived

Load Factors

Wind exposure Protected Partial Full Wind funneling NA Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss NA
 Recent or expected change in load factors NA

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 75 %
 Dead twigs/branches 25 % overall Max. dia. 5"
 Broken/Hangers Number NA Max. dia. NA
 Over-extended branches
 Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other NA
 Cracks NA Lightning damage
 Codominant NA Included bark
 Weak attachments NA Cavity/Nest hole % circ.
 Previous branch failures NA Similar branches present
 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Conks Heartwood decay NA
 Response growth NA
 Condition(s) of concern NA

Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole 5 % circ. Depth 10" Poor taper
 Lean 26° Corrected? no
 Response growth NA
 Condition(s) of concern split/cracked trunk w/ canes
 Part Size 16" Fall Distance 60"

Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth NA Stem girdling
 Dead Decay Conks/Mushrooms
 Ooze Cavity % circ.
 Cracks Cut/Damaged roots Distance from trunk NA
 Root plate lifting Soil weakness
 Response growth NA
 Condition(s) of concern NA

Part Size NA Fall Distance NA
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

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