ISA Basic Tree Risk Assessment Form

Client Clark Cusick   **Date** 3/13/2024   **Time** _____

Address / Tree location 1510 25th St NE, Salem   **Tree no.** _____   **Sheet** ___ **of** ___

Tree species Deodar Cedar   **dbh** 46"   **Height** 100'   **Crown spread dia.** 50'

Assessor(s) Tim Jones   **Tools used** Clinometer, phone, Tape   **Time frame** 1 year

Target Assessment

Target number	Target description	Target protection	Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.	Occupancy rate 1–rare 2–occasional 3–frequent 4–constant	Practical to move target?	Restriction practical?
1	Utility lines	None	X			4	N	N
2	Homes	None	X			4	N	N
3								
4								

Site Factors

History of failures Significant storm damage   **Topography** Flat ☒ Slope ☐ _____ % **Aspect** _____

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

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____ % Describe Backyard

Prevailing wind direction NE   **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe Valley Winter

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐   **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95 % Chlorotic ___ % Necrotic ___ %

Pests / Biotic _____   **Abiotic** _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe Prone to limb & stem loss

Load Factors

Wind exposure Protected ☐ Partial ☐ Full ☒ **Wind funneling** ☐ _____   **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 _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐   LCR 50 %

Dead twigs/branches ☐ _____ % overall

Broken/Hangers Number 1   Max. dia. 5"

Over-extended branches ☐

Max. dia. _____

Pruning history

Crown cleaned ☒   Thinned ☐   Raised ☒

Reduced ☐   Topped ☐   Lion-tailed ☐

Flush cuts ☐   Other _____

Storm damaged removed

Part Size 5"   **Fall Distance** 15'

Load on defect N/A ☐ Minor ☒ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

Cracks ☐ _____   Lightning damage ☐

Codominant ☒ _____   Included bark ☒

Weak attachments ☒ _____   Cavity/Nest hole ___ % circ.

Previous branch failures ☒ _____   Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐   Heartwood decay ☐ _____

Response growth Normal

Condition(s) of concern Multiple codominant attachments / Girdling limbs

Part Size 20"   **Fall Distance** 40'

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? _____

Response growth _____

Condition(s) of concern Codominate Attachments

Part Size 30'   **Fall Distance** 70'

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐   Depth _____   Stem girdling ☐

Dead ☐   Decay ☐   Conks/Mushrooms ☐

Ooze ☐   Cavity ☐ ___ % circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐   Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____   **Fall Distance** _____

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

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Risk Categorization

Target (Target number or description)	Tree part	Condition(s) of concern	Failure: Improbable	Possible	Probable	Imminent	Impact: Very low	Low	Medium	High	Failure & Impact (from Matrix 1): Unlikely	Somewhat	Likely	Very likely	Consequences: Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2)
Utility line Homes	Stem 20" ~~Girdled~~ ~~Stem~~	Girdled & Codominate		X						X		X					X		Mod
				X					X		X						X		Low
Homes Utility lines	30" Leaders	Codominate		X						X		X						X	MOD
				X					X		X							X	Low

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

- Previous History of failures
- Codominate Attachments
- Proximity to Homes & utility lines

Mitigation options

1. Remove & Stump grind   Residual risk None
2. _____   Residual risk _____
3. _____   Residual risk _____
4. _____   Residual risk _____

Overall tree risk rating   Low ☐   Moderate ☒   High ☐   Extreme ☐

Overall residual risk   None ☒   Low ☐   Moderate ☐   High ☐   Extreme ☐   **Recommended inspection interval** _____

Data ☒ Final ☐ Preliminary   **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☐ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

North