



Basic Tree Risk Assessment Form

Client Meridian Pointe Apartments Date 10/17/2022 Time 13:11 PM
 Address/Tree location 407 Valley Ave NE, Puyallup, WA 98372 Tree no. AP 1000860202 Sheet of
 Tree species Incense Cedar (Calocedrus decurrens) dbh 16.7" Height 40' Crown spread dia. 20'
 Assessor(s) Eric Mullin Time frame 1yr Tools used Visual

Target Assessment

Target number	Target description	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	Play Structure		✓		2	N	N
2	Pedestrians	✓			1	N	N
3							
4							

Site Factors

History of failures None visible Topography Flat Slope % Aspect
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe Surface roots cut at Back of Walk
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots 45 % Describe
 Prevailing wind direction West Common weather Strong winds Ice Snow Heavy rain Describe Seasonal

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal 80 % Chlorotic 20 % Necrotic %
 Pests Abiotic Water stress. Sunburned foliage on S-side.
 Species failure profile Branches Trunk Roots Describe Branch failures from overloading.

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 planned change in load factors Potential seasonal snow/ice load factors.

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 71 %
 Dead twigs/branches 5 % overall Max. dia. 1/2
 Broken/Hangers Number Max. dia.
 Over-extended branches
 Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other
 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
 Main concern(s)

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 18 ° Corrected? Yes. Around 15-20'
 Response growth Normal
 Main concern(s)

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 12"
 Root plate lifting Soil weakness
 Response growth Larger buttress on W-side
 Main concern(s) 2 large scaffold roots on W-side producing larger tension-side next to concrete. Lack of taper on E-side.

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

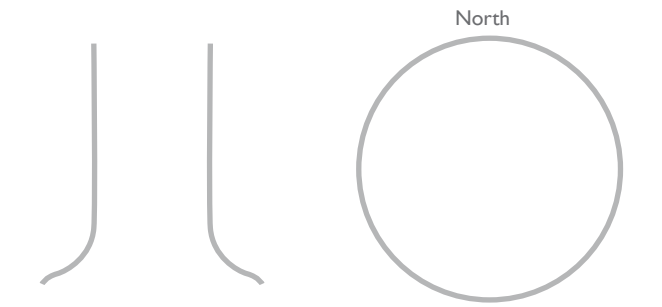
Risk Categorization																							
Condition number	Tree part	Conditions of concern	Part size	Fall distance	Target number	Target protection	Likelihood												Consequences				Risk rating of part (from Matrix 2)
							Failure				Impact				Failure & Impact (from Matrix 1)				Negligible	Minor	Significant	Severe	
							Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely					
1	Roots	Unbalanced root development spacially & concrete damage.	8	40'	1	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Low
			8	40'	2	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Low
2							<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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3							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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4							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impacting Target			
	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 Despite current Low overall risk rating, additional root pruning on tension-side of leaning as this would remove roughly 40%+ of the root system and sever at least one significant scaffold root roughly 1/3 the tree's DBH at the root crown.

Mitigation options Removal and replacement with either a more appropriate tree species for the space, or an alternate location on the property according to city code 20.58.005.7 **Residual risk** None

Residual risk _____

Residual risk _____

Residual risk _____

Overall tree risk rating Low Moderate High Extreme **Work priority** 1 2 3 4

Overall residual risk 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 _____



Basic Tree Risk Assessment Form

Client Meridian Pointe Apartments Date 10/17/2022 Time 13:11 PM
 Address/Tree location 407 Valley Ave NE, Puyallup, WA 98372 Tree no. AP 1000860237 Sheet of
 Tree species Douglas Fir (Pseudotsuga menziesii) dbh 19.4" Height 60' Crown spread dia. 45'
 Assessor(s) Eric Mullin Time frame 1yr Tools used Visual

Target Assessment

Target number	Target description	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	Building	<input checked="" type="checkbox"/>			4	N	N
2	Cars	<input checked="" type="checkbox"/>			3	N	N
3	Pedestrians	<input checked="" type="checkbox"/>			1	N	N
4							

Site Factors

History of failures None visible 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 45 % Describe
 Prevailing wind direction West Common weather Strong winds Ice Snow Heavy rain Describe Seasonal

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal 100 % Chlorotic % Necrotic %
 Pests Abiotic
 Species failure profile Branches Trunk Roots Describe Branch failures from overloading. Stem failures from co-dominant leaders.

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 planned change in load factors Potential seasonal snow/ice load factors.

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

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

Load on defect N/A Minor Moderate Significant Crown imbalance due to clearance pruning for building
 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
 Main concern(s)

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
 Main concern(s) Damage to surrounding hardscape and trip hazards. Root pruning targets within 3-5x trunk diam.

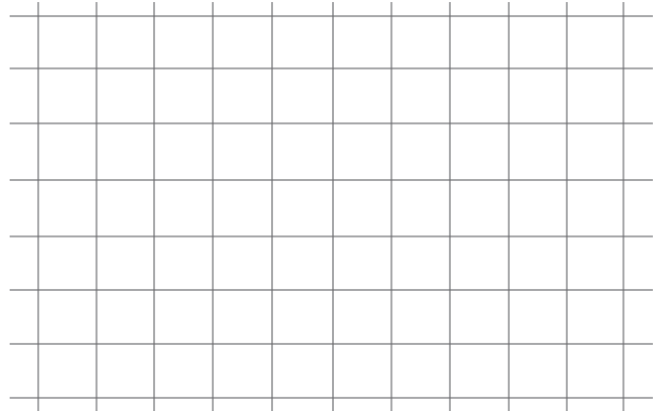
Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

Risk Categorization

Condition number	Tree part	Conditions of concern	Part size	Fall distance	Target number	Target protection	Likelihood																Risk rating of part (from Matrix 2)
							Failure				Impact				Failure & Impact (from Matrix 1)				Consequences				
							Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	
1	Roots	Unbalanced root development spacially & concrete damage.	4"+	15'	1	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Mod
			4"+	60'	2	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Low
			4"+	60'	3	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Low
2							<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

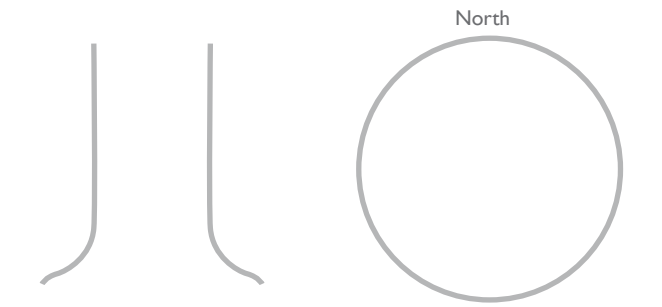
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impacting Target			
	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 Despite current Moderate overall risk rating, root pruning of multiple scaffold roots within 3-5x the stem diameter is not a recommended practice. Result of doing so would greatly increase the likelihood of failure. Anticipate roughly 60-70% root loss.

Mitigation options Removal and replacement with an appropriate tree species for the space & located further away from the sidewalk. **Residual risk** None

Residual risk _____

Residual risk _____

Residual risk _____

Overall tree risk rating Low Moderate High Extreme **Work priority** 1 2 3 4

Overall residual risk 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 _____



Basic Tree Risk Assessment Form

Client Meridian Pointe Apartments Date 10/17/2022 Time 13:11 PM
 Address/Tree location 407 Valley Ave NE, Puyallup, WA 98372 Tree no. AP 1000860238 Sheet of
 Tree species Douglas Fir (Pseudotsuga menziesii) dbh 16.5" Height 60' Crown spread dia. 35'
 Assessor(s) Eric Mullin Time frame 1yr Tools used Visual

Target Assessment

Target number	Target description	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	Building		<input checked="" type="checkbox"/>		4	N	N
2	Cars	<input checked="" type="checkbox"/>			3	N	N
3	Pedestrians	<input checked="" type="checkbox"/>			1	N	N
4							

Site Factors

History of failures None visible 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 45 % Describe
 Prevailing wind direction West Common weather Strong winds Ice Snow Heavy rain Describe Seasonal

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal 100 % Chlorotic % Necrotic %
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 Species failure profile Branches Trunk Roots Describe Branch failures from overloading. Stem failures from co-dominant leaders.

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 planned change in load factors Potential seasonal snow/ice load factors.

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

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

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
 Main concern(s)

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

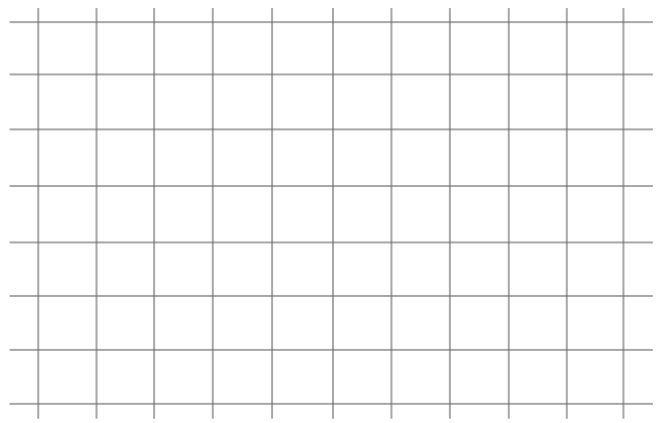
Response growth
 Main concern(s) Damage to surrounding hardscape and trip hazards. Root pruning targets within 3-5x trunk diam.

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

Risk Categorization																							
Condition number	Tree part	Conditions of concern	Part size	Fall distance	Target number	Target protection	Likelihood												Consequences				Risk rating of part (from Matrix 2)
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							Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely					
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			4"+	60'	2	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Low
			4"+	60'	3	None	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Low
2							<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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3							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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4							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

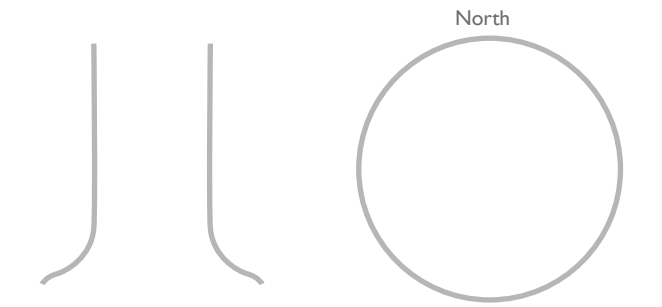
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impacting Target			
	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 Despite current Low overall risk rating, root pruning of multiple scaffold roots within 3-5x the stem diameter is not a recommended practice. Result of doing so would greatly increase the likelihood of failure. Anticipate roughly 50% root loss.

Mitigation options Removal and replacement with a more appropriate tree species for the space & more centrally located within the planting space away from the sidewalk. **Residual risk** None

Residual risk _____

Residual risk _____

Residual risk _____

Overall tree risk rating Low Moderate High Extreme **Work priority** 1 2 3 4

Overall residual risk 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 _____