



**TOWN OF SUMMERVILLE
TREE PROTECTION BOARD – AGENDA
Summerville Municipal Complex
Council Chambers, Third Floor
July 6, 2020 - 9:00 AM**

The public and Town Council members are strongly encouraged to attend virtually
The meeting will be live-streamed through the live-streaming link on the Town's website:
<https://scsummerville.civicplus.com/159/Live-Streaming-Meetings>

*For additional information regarding items on this agenda including any public hearings, please contact the Planning Department at planning@summervillesc.gov or 843.851.4217. Applications and related documents for this meeting are available for review at any time at www.summervillesc.gov/AgendaCenter
Public that chooses to attend this meeting in person will be required to have their temperature scanned, wear a mask, and abide by social distancing requirements.*

Approval of Minutes

1. June 8, 2020 minutes

Old Business

1. **1925 Bacon's Bridge Road, Lot 43** – Removal of one Pine tree
2. **1925 Bacon's Bridge Road, Lot 123** – Removal of one Pine tree

New Business

1. **111 Alwyn Blvd** - Removal of three Pine trees
2. **220 Sumter Avenue** – Removal of three Pine trees and one Cedar tree
3. **205 Factors Walk** – Removal of six Pine trees and one Red Maple

Miscellaneous

Adjournment

Posted June 29, 2020

Tree Protection Board Minutes
Monday, June 8, 2020

Members Present:

Ginger Reilly
Peter Wallace
Faye Campbell

Staff Present:

Jessi Shuler, Director of Planning
Bill Salisbury, Arborist

The meeting was called to order at 9:00 am. Ms. Reilly asked for consideration of the May 11, 2020 meeting minutes. Mr. Wallace seconded the motion for approval of the minutes as presented. The motion carried 5-0.

Old Business

1. 1925 Bacon's Bridge Road, Lot 43 – Removal of one 28" Pine Tree

Mr. Salisbury reported he measured and the tree is not 20' from house to left, saying that it has to also be 20' from house to the right, but does not appear to be room to fit the home and comply with 20' distance from both sides of house. Ms. Shuler stated she is not sure about the size of a standard home, but 16' appears to be the most common size. Mr. Wallace made a motion to deny removal until explanation of reasoning for removal is provided, Ms Campbell seconded the motion. The motion carried.

New Business

1. 1925 Bacon's Bridge Road, Lot 123 – Fee not paid

2. 803 S. Main Street – Removal of one Water Oak, Laurel Oak and four Holly trees.

Mr. Salisbury reported that the trees are healthy but the applicant is putting in a pool and is trying to keep it as far away from a large Live Oak as possible. The applicant stated that the Water Oak was approved for removal last year due to it having knocked down a cement block wall, keeping out of the dripline of the Live Oak. Mr Wallace asked why he did not locate the pool on the street side. The applicant stated there is the safety factor of the children if it is not in view from the house plus the Laurel Oak would still be damaged as well as other trees not shown on the plan need to be removed if the pool were located there. Ms Reilly stated she can appreciate the reasons for the location and is willing to allow if tied to a pool permit. Mr Wallace stated it will change the character of the yard. Ms Reilly made a motion to allow removal of the holly trees and one Laurel Oak tree in the footprint of the pool with the pool permit.

The applicant stated there is a Water Oak with dieback in the crown, it is leaning toward school property and the center is already gone. Mr. Wallace does not feel it is an immediate threat and could be balanced with removal of a large limb over adjacent property. The applicant did not agree with removal of large limb as it would stress the tree. He is also planning on building a cabana but is waiting on drawings. Mr Salisbury asked where the tree is located and how big the cabana will be. The applicant stated the cabana will be about 15'; the tree is not in good health and is a hazard. Ms. Reilly stated since it is not an imminent threat he could have an arborist climb and assess the tree while the others are being removed. Mr. Wallace stated that the urban canopy needed to be considered, not just threat of danger. Ms Reilly made a motion to deny removal until assessment by arborist. Mr. Wallace seconded the motion. The applicant stated they are just prolonging the inevitable;

Tree Protection Board Minutes
Monday, June 8, 2020

he asked about mitigation. Mr Wallace stated inch for inch mitigation or contribution to Tree Fund. There was discussion about the location of the cabana to avoid the Live Oak and to determine removal of the Water Oak. Mr Wallace asked if he is willing to mitigate with a canopy tree elsewhere in the yard. The applicant stated he is okay with mitigation, planning to plant a Live Oak. A vote was taken on Ms. Reilly's motion. It did not pass. Mr. Wallace made a motion to allow removal of the Water Oak with planting of Live Oak. Ms. Campbell seconded the motion. The motion passed with two in favor, Ms. Reilly abstained from the vote.

3. 192 Factor's Walk – Removal of one Pine and two hardwood trees

Mr. Salisbury reported the large 32" pine in the back yard has had a limb removed high up that now has a hole, he could not tell if there is a cavity there. The tree is raised up at the base. The owner is concerned about drainage but Mr. Salisbury did not see any drainage problems at this time. Mr. Salisbury stated one of the hardwood trees is dead, is closest to the deck. The other tree has significant lean. Mr. Wallace made a motion to allow removal of the two hardwood trees adjacent to the deck but to disallow for removal of the large Pine until an arborist makes an evaluation of the hole. Ms. Campbell seconded the motion. The motion carried.

Miscellaneous: There were no items under Miscellaneous.

ADJOURN:

There being no further business, the meeting was adjourned at 9:39 am on a motion by Ms. Reilly and a second by Ms. Campbell. The motion carried.

Respectfully submitted,

Date: _____

Bill Salisbury
Arborist/Natural Resource Planner

Approved: Kenny Sott, Chair

_____ ; or,

Faye Campbell, Vice Chair



STAFF REPORT
Tree Protection Committee Meeting
July 6, 2020

To: Town of Summerville Tree Protection Board
From: Bill Salisbury, Arborist/Natural Resource Planner
Date: June 28, 2020

**GENERAL
INFORMATION**

Property Applicant: Scott Wilson
Owner: Yes Communities
Requested Action: Removal of one 28" Pine tree
Location: 1925 Bacon's Bridge Road, Lot 43
Guideline Citation: UDO Section 13.9.1.G

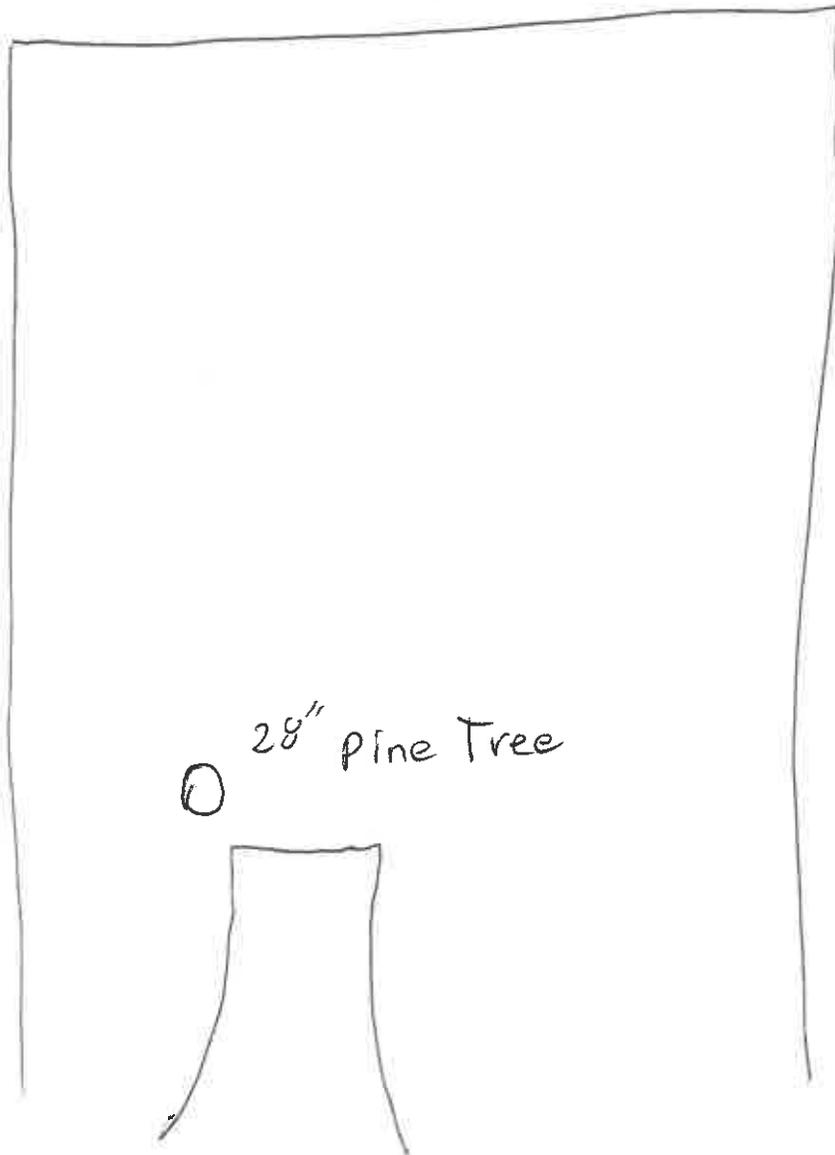
Decisions/Justifications: The TPB may approve, deny, or approve with conditions the application for the removal of a Grand Tree. No approval shall be granted unless the following one or more of the following conditions are determined to exist:

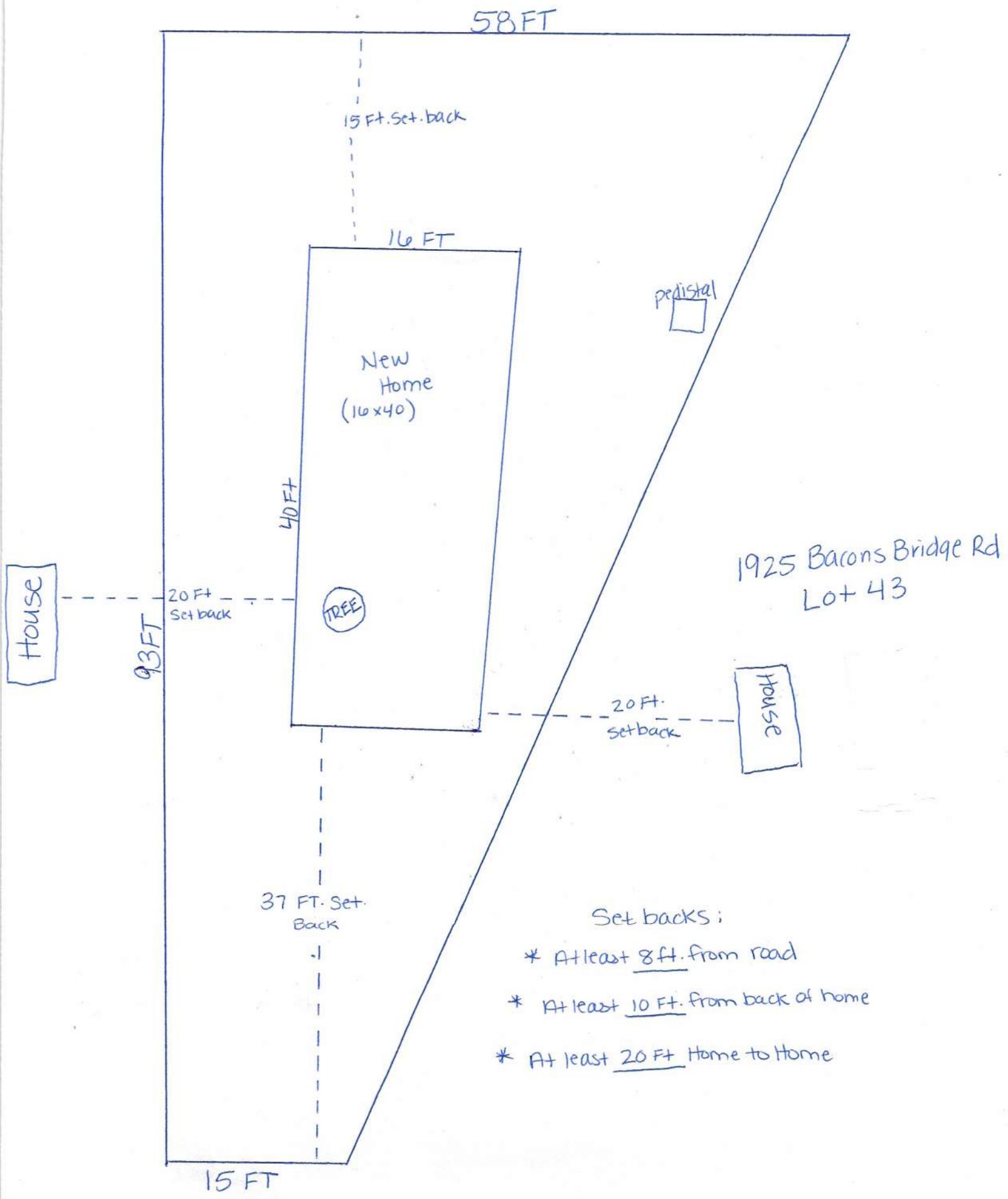
- 1. The Grand Tree is diseased, dead or dying; or*
- 2. The Grand Tree poses a safety hazard to nearby buildings, utility lines or pedestrian or vehicular traffic; or*
- 3. The Grand Tree prevents essential grade changes or all reasonable utility installations; or*
- 4. The Grand Tree prevents all reasonable site configurations; or*
- 5. The removal of the Grand Tree is the only reasonable means by which building, zoning, subdivision, health, public safety or other Town requirements can be met; or*
- 6. Grand Tree is located on the construction site and up to ten feet around the perimeter of the construction site of an approved building and related driveway parking area when every measure has been explored to preserve existing trees has failed, including the reconfiguration of the building and or driving/parking areas around the tree; or*
- 7. The lot is of such density with existing trees that the removal of certain protected trees is considered beneficial; or*
- 8. The removal of the Grand Tree has otherwise been approved by the Town Council.*

Evaluation: Pine tree looks to be in good health. Letter from Kim Racke, Regional Vice President of Yes! Communities, stating this site is the last one not in the flood zone. (See letter attached.)

19 25 Bacons Bridge Rd

lot 43





58 FT

15 Ft. Set. back

16 FT

New Home
(16x40)

pedestal

40 FT

TREE

20 Ft Setback

93 FT

House

1925 Barons Bridge Rd
Lot 43

20 Ft. setback

House

37 FT. Set. Back

15 FT

Set backs :

- * At least 8 ft. from road
- * At least 10 Ft. from back of home
- * At least 20 Ft Home to Home

From: Kim Racke <kracke@yescommunities.com>
Sent: Monday, June 8, 2020 1:54 PM
To: Wike, Pamela <pwike@summervillesc.gov>
Cc: Scott Wilson <SWilson@yescommunities.com>; April Rumble <ARumble@yescommunities.com>
Subject: Tree removal

Ms. Pamela

May I make another plea for this. There are circumstances at this property that I am not sure have been conveyed to all involved?

Right now, Creekside is completely full, well, in a sense. A property of Creekside size and caliper makes every site worth approximately \$30K in loan valuation. Every vacant site decreases the value of the property significantly. Shortly after the 1000 year flood in 2015, the city came in a deemed 42% of our property as flood zone, meaning every time someone removes their home from the property that is located in the flood zone, that site becomes dead, we cannot do anything with those sites, they cannot even be touched. We have already lost 17 sites to flood zone and another is coming. This equates to over \$500K in lost loan valuation. Site 43 is now our only site left that is not in the flood zone that we can put a home on, period! This property is slowly rolling backwards yet we continue to pay the same amount of property taxes.

This property has thousands and thousands of pine trees on it. We never remove trees just to remove them, it is only done based on necessity.

I completely understand the need to manage tree removal but if you could allow us this one tree, we would be happy to replace it by replanting trees throughout the community based on an amount you choose that is reasonable. Please note if this home was allowed to be placed, we would be adding a landscape package to the site that would include another tree.

Could you please reconsider? I do not have an email for Bill but would be extremely grateful if you could pass it along to him.



Kim Racke
Regional Vice President
2 Dollie Circle
Summerville, SC 29485
t: (843) 376-4641
e: kracke@yescommunities.com
www.yescommunities.com





lot 413

284





104
4/3



29"

167 4/3



STAFF REPORT
Tree Protection Committee Meeting
July 6, 2020

To: Town of Summerville Tree Protection Board
From: Bill Salisbury, Arborist/Natural Resource Planner
Date: June 29 2020

**GENERAL
INFORMATION**

Property Applicant: Scott Wilson
Owner: Yes Communities
Requested Action: Removal of one 31" Pine tree
Location: 1925 Bacon's Bridge Road, Lot 123
Guideline Citation: UDO Section 13.9.1.G

Decisions/Justifications: The TPB may approve, deny, or approve with conditions the application for the removal of a Grand Tree. No approval shall be granted unless the following one or more of the following conditions are determined to exist:

- 1. The Grand Tree is diseased, dead or dying; or*
- 2. The Grand Tree poses a safety hazard to nearby buildings, utility lines or pedestrian or vehicular traffic; or*
- 3. The Grand Tree prevents essential grade changes or all reasonable utility installations; or*
- 4. The Grand Tree prevents all reasonable site configurations; or*
- 5. The removal of the Grand Tree is the only reasonable means by which building, zoning, subdivision, health, public safety or other Town requirements can be met; or*
- 6. Grand Tree is located on the construction site and up to ten feet around the perimeter of the construction site of an approved building and related driveway parking area when every measure has been explored to preserve existing trees has failed, including the reconfiguration of the building and or driving/parking areas around the tree; or*
- 7. The lot is of such density with existing trees that the removal of certain protected trees is considered beneficial; or*
- 8. The removal of the Grand Tree has otherwise been approved by the Town Council.*

Evaluation: The pine tree is in good condition.

ISA Basic Tree Risk Assessment Form

page 1

Client yes Companies SL LLC Date 5-28-20 Time 1:30
 Address/Tree location 1123 Beverford Ln Tree no. 1 Sheet 1 of 2
 Tree species pine dbh 31" Height 50' Crown spread dia. 30
 Assessor(s) Bill Salisbury Tools used _____ 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	Houses	None	✓	✓		3		
2	people in house	house	✓	✓		3		
3	people in yard	none	✓	✓		3		
4								

Site Factors

History of failures _____ 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 30 % Describe side walk + driveway

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

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal 95 % Chlorotic 5 % Necrotic _____ %

Pests/Biotic _____ Abiotic _____

Species failure profile Branches Trunk Roots Describe pine trees self pruned low branches

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 None

Recent or expected change in load factors None

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR _____ %
 Dead twigs/branches _____ % overall Max. dia. _____
 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 good

looks healthy Condition(s) of concern _____

Part Size 4" 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 good

Condition(s) of concern none

Part Size 31" Fall Distance 20'

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 good

Condition(s) of concern none

Part Size _____ Fall Distance _____

Load on defect N/A Minor Moderate Significant

Likelihood of failure Improbable Possible Probable Imminent

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	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant		Severe			
house	Top + Limbs	Top of Tree or limbs falling + hitting people +		✓					✓									✓				Low
people in house			✓	✓			✓			✓								✓				low
people outside				✓				✓			✓									✓		
house	hole Tree	hole Tree falling	✓						✓											✓		low
people in house			✓						✓											✓		low
people at side			✓							✓											✓	
cars parked	Top + Limbs	limbs falling on cars		✓					✓											✓		low
cars in road				✓					✓												✓	
cars parked	hole Tree	hole Tree falling	✓						✓												✓	low
cars in road			✓							✓												✓

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

Mitigation options

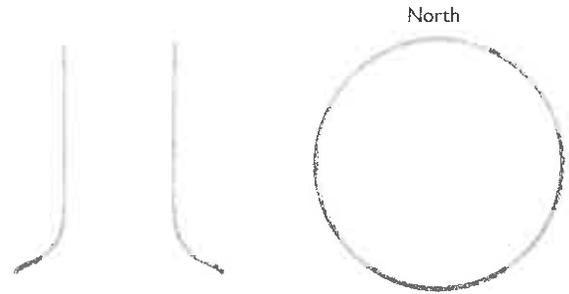
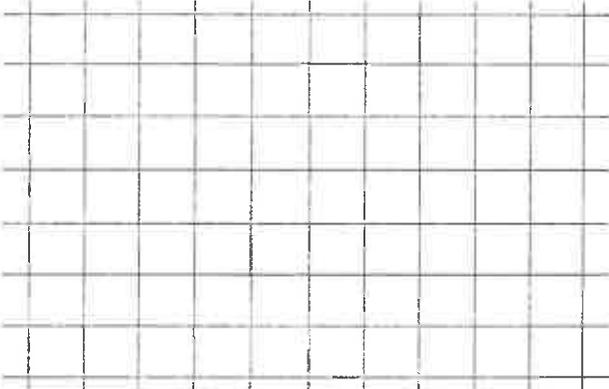
- _____ Residual risk _____

Overall tree risk rating Low Moderate High Extreme

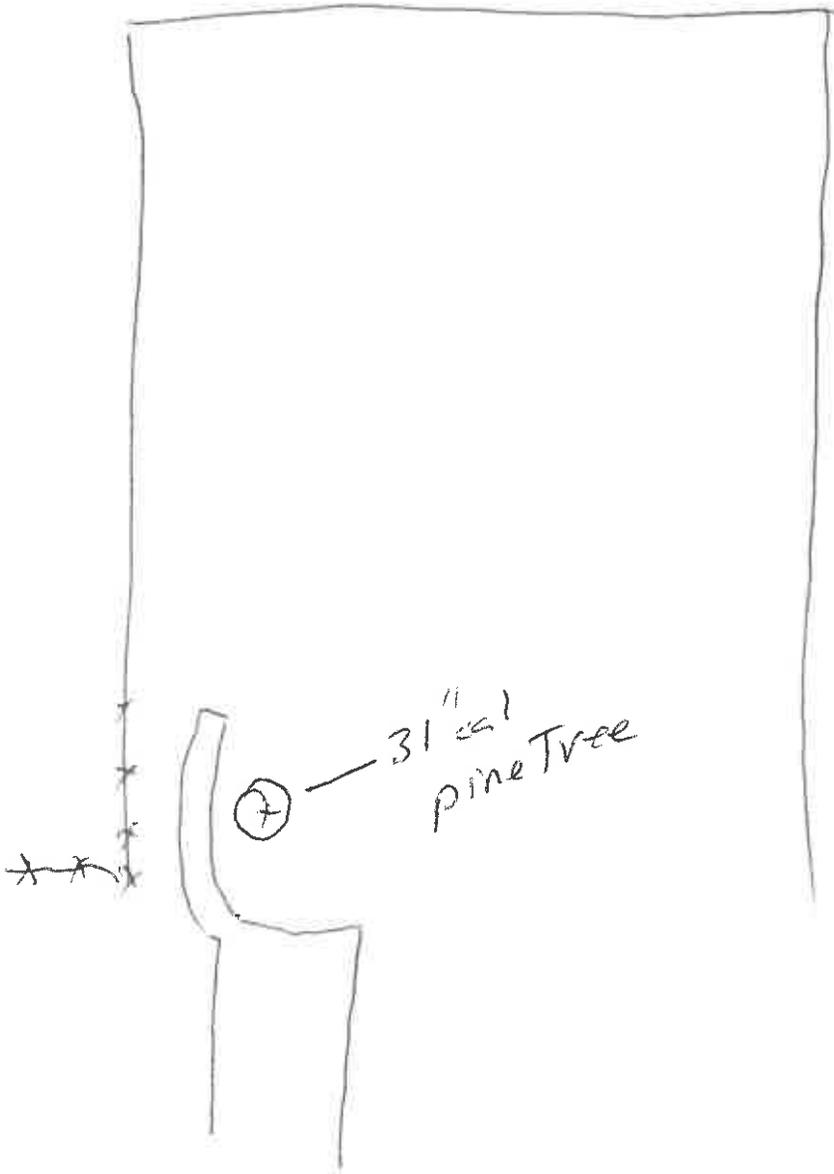
Overall residual risk None Low Moderate High Extreme Recommended inspection interval 1 year

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

Inspection limitations None Visibility Access Vines Root collar buried Describe _____



19 25 Bacons Bridge Rd
1123 Berestford Ln.













STAFF REPORT
Tree Protection Committee Meeting
July 6, 2020

To: Town of Summerville Tree Protection Board
From: Bill Salisbury, Arborist/Natural Resource Planner
Date: June 29, 2020

GENERAL
INFORMATION

Property Applicant: Justin Coleman

Owner: Justin Coleman

Requested Action: Remove 3 Pine trees

Location: 111 Alwyn Blvd

Guideline Citation: UDO Section 13.9.1.G

Decisions/Justifications: The TPB may approve, deny, or approve with conditions the application for the removal of a Grand Tree. No approval shall be granted unless the following one or more of the following conditions are determined to exist:

- 1. The Grand Tree is diseased, dead or dying; or*
- 2. The Grand Tree poses a safety hazard to nearby buildings, utility lines or pedestrian or vehicular traffic; or*
- 3. The Grand Tree prevents essential grade changes or all reasonable utility installations; or*
- 4. The Grand Tree prevents all reasonable site configurations; or*
- 5. The removal of the Grand Tree is the only reasonable means by which building, zoning, subdivision, health, public safety or other Town requirements can be met; or*
- 6. Grand Tree is located on the construction site and up to ten feet around the perimeter of the construction site of an approved building and related driveway parking area when every measure has been explored to preserve existing trees has failed, including the reconfiguration of the building and or driving/parking areas around the tree; or*
- 7. The lot is of such density with existing trees that the removal of certain protected trees is considered beneficial; or*
- 8. The removal of the Grand Tree has otherwise been approved by the Town Council.*

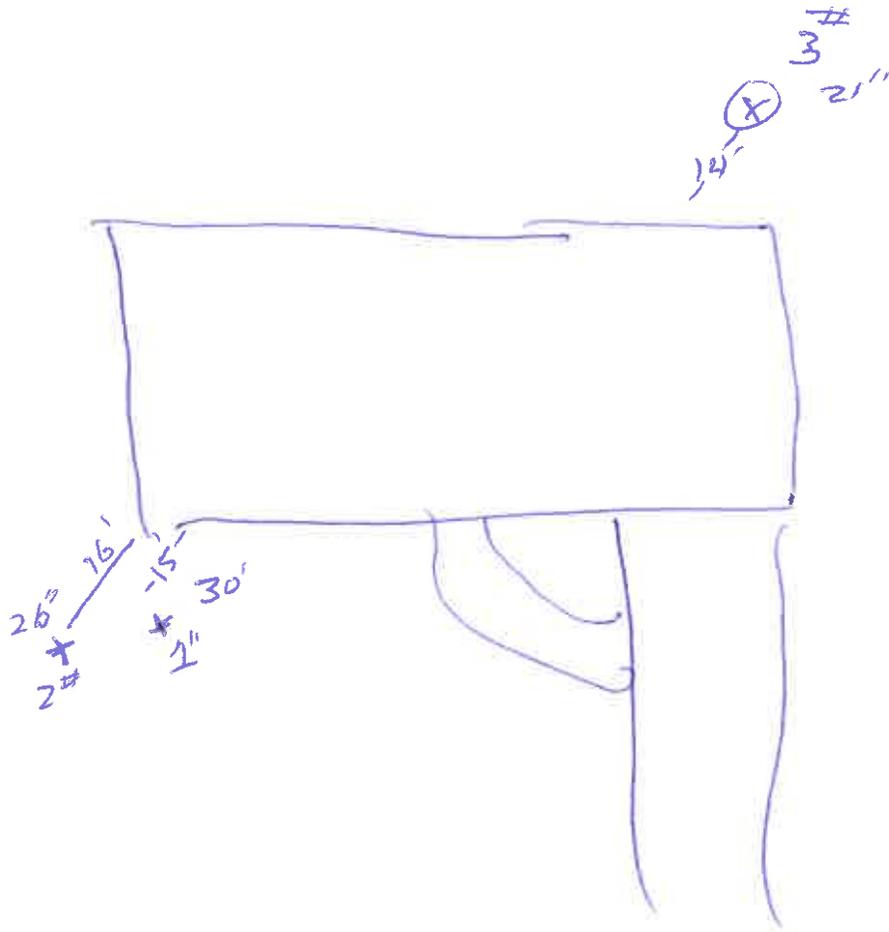
Evaluation:

#1 – 30” cal. Tree located 15’ from house, some dead branches, top may have broken out sometime ago

#2 – 26” cal. Tree located 16’ from house, is forked

#3 – 21” cal. Tree located 14’ from house, is forked at the top

111 Alwyn



ISA Basic Tree Risk Assessment Form

Client Justin Coleman Date 6-17-20 Time 10:00
 Address/Tree location 111 Alwyn Blvd Tree no. 1 Sheet of
 Tree species pine dbh 30 Height 50' Crown spread dia. 30
 Assessor(s) Bill Salisbury Tools used 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	<u>House</u>	<u>None</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>3</u>	<u>No</u>	<u>No</u>
2	<u>neighbors House</u>	<u>None</u>		<input checked="" type="checkbox"/>		<u>3</u>	<u>No</u>	<u>No</u>
3								
4								

Site Factors

History of failures 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 Good

Prevailing wind direction 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 Abiotic

Species failure profile Branches Trunk Roots Describe

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 %
 Dead twigs/branches % overall
 Broken/Hangers Number Max. dia.
 Over-extended branches Max. dia.
 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

Condition(s) of concern

Part Size Fall Distance

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

Part Size Fall Distance

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



Basic Tree Risk Assessment Form

Client Justin Coleman Date 6-17-20 Time 10:00
 Address/Tree location 111 Alwyn Blvd Tree no. 2 Sheet of
 Tree species pine dbh 30 Height 50' Crown spread dia. 30'
 Assessor(s) Bill Salisbury Tools used 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	<u>House</u>	<u>None</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	<u>No</u>	<u>No</u>
2	<u>neighbors House</u>	<u>None</u>		<input checked="" type="checkbox"/>		3	<u>No</u>	<u>No</u>
3								
4								

Site Factors

History of failures 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 Good
 Prevailing wind direction 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 Abiotic
 Species failure profile Branches Trunk Roots Describe

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 %
 Dead twigs/branches % overall Max. dia.
 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 Sappywood damage/decay
 Conks Heartwood decay
 Response growth

Condition(s) of concern

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

Part Size Fall Distance

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

ISA Basic Tree Risk Assessment Form

Client Justin Coleman Date 6-17-20 Time 10:00
 Address/Tree location 111 Alwyn Blvd Tree no. 3 Sheet of
 Tree species pine dbh 30 Height 50' Crown spread dia. 30'
 Assessor(s) Bill Salisbury Tools used _____ 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	<u>House</u>	<u>None</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	<u>No</u>	<u>No</u>
2	<u>neighbors House</u>	<u>None</u>		<input checked="" type="checkbox"/>		3	<u>No</u>	<u>No</u>
3								
4								

Site Factors

History of failures _____ 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 Good
 Prevailing wind direction _____ 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 _____ Abiotic _____
 Species failure profile Branches Trunk Roots Describe _____

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 _____%
 Dead twigs/branches _____% overall Max. dia. _____
 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 _____
 Condition (s) of concern _____
 Part Size _____ Fall Distance _____
 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 _____
 Condition (s) of concern _____
 Part Size _____ Fall Distance _____
 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 _____
 Part Size _____ Fall Distance _____
 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

Risk Categorization

Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood										Consequences				Risk rating (from Matrix 2)			
			Failure				Impact				Failure & Impact <small>(from Matrix 1)</small>		Negligible	Minor	Significant	Severe				
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat Likely						Very likely		
House	limbs Trunk	limbs are over The House Trunk falling on house		✓											✓					low
				✓					✓		✓								✓	
neighbors House	Top of Tree	it hole Tree Failure	✓													✓				low

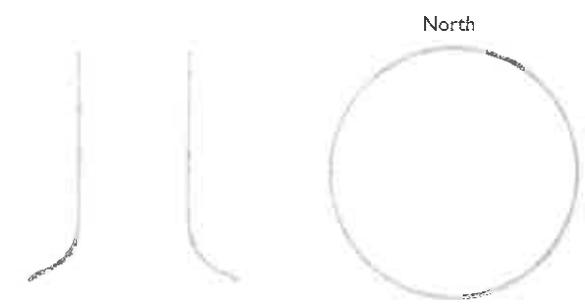
Matrix 1. Likelihood matrix.

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



Mitigation options

1. Trim limbs over house Residual risk _____
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 _____



3



3

3





2

1



2

1



↑



1

2



1

2



STAFF REPORT
Tree Protection Committee Meeting
July 6, 2020

To: Town of Summerville Tree Protection Board
From: Bill Salisbury, Arborist/Natural Resource Planner
Date: June 29, 2020

GENERAL
INFORMATION

Property Applicant: Mary Ellen Green

Owner: Mary Ellen Green

Requested Action: Remove three Pine trees and one Cedar tree

Location: 220 Sumter Avenue

Guideline Citation: UDO Section 13.9.1.G

Decisions/Justifications: The TPB may approve, deny, or approve with conditions the application for the removal of a Grand Tree. No approval shall be granted unless the following one or more of the following conditions are determined to exist:

- 1. The Grand Tree is diseased, dead or dying; or*
- 2. The Grand Tree poses a safety hazard to nearby buildings, utility lines or pedestrian or vehicular traffic; or*
- 3. The Grand Tree prevents essential grade changes or all reasonable utility installations; or*
- 4. The Grand Tree prevents all reasonable site configurations; or*
- 5. The removal of the Grand Tree is the only reasonable means by which building, zoning, subdivision, health, public safety or other Town requirements can be met; or*
- 6. Grand Tree is located on the construction site and up to ten feet around the perimeter of the construction site of an approved building and related driveway parking area when every measure has been explored to preserve existing trees has failed, including the reconfiguration of the building and or driving/parking areas around the tree; or*
- 7. The lot is of such density with existing trees that the removal of certain protected trees is considered beneficial; or*
- 8. The removal of the Grand Tree has otherwise been approved by the Town Council.*

Evaluation:

#1 – 23” cal. Pine Tree, located 12’ from house

#2 – 19” cal. Pine Tree, located 8’ from house

#3 – 24” cal. Pine Tree, located 4’ from brick fence

#4 – Cedar Tree – located next to brick fence, cause it to crack

220 SUMTER AVE

GARAGE

Pine Tree 3
24'

GRASS

Cedar Tree 1
8'

BACK

Pine Tree 2
10'

HOUSE

Right

Left

Driveway

23'

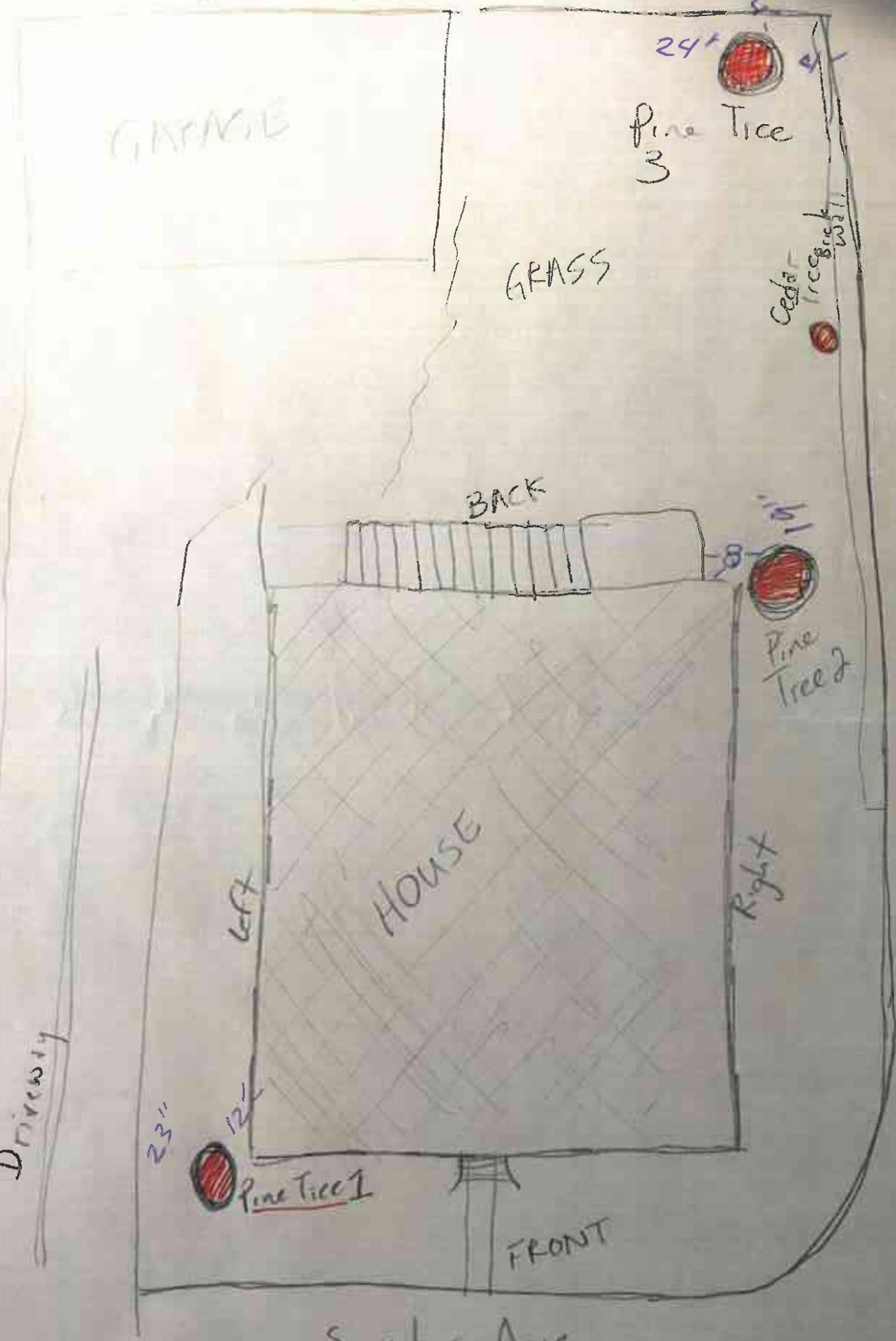
12'

Pine Tree 1

FRONT

Sumter Ave

SUMTER AVE



ISA Basic Tree Risk Assessment Form

Client Mary Ellen Green Date 6-15-20 Time _____
 Address/Tree location 220 Sumter Ave Tree no. 1 Sheet _____ of _____
 Tree species pine dbh 23 Height 50' Crown spread dia. 30'
 Assessor(s) Bill Salisbury Tools used _____ Time frame 1.5 hr

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	House	None	✓	✓	4	4	No	No
2	Drive way	None	✓	✓	2	2	No	No
3								
4								

Site Factors

History of failures _____ 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 _____

Prevailing wind direction _____ 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 _____ Abiotic _____

Species failure profile Branches Trunk Roots Describe _____

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 _____ %
 Dead twigs/branches _____ % overall
 Broken/Hangers Number _____ Max. dia. _____
 Over-extended branches Max. dia. _____
 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 _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

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 _____

Part Size _____ Fall Distance _____

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



Basic Tree Risk Assessment Form

page 1 nee 2

Client Mary Ellen Green Date 6-15-20 Time _____
 Address/Tree location 220 Sumter Ave Tree no. 2 Sheet _____ of _____
 Tree species plnc dbh _____ Height _____ Crown spread dia. _____
 Assessor(s) Bill Sabely Tools used _____ 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	<u>Horse</u>	<u>None</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>4</u>	<u>No</u>	<u>No</u>
2	<u>Road</u>	<u>None</u>			<input checked="" type="checkbox"/>	<u>3</u>	<u>No</u>	<u>No</u>
3								
4								

Site Factors

History of failures _____ **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 _____
Prevailing wind direction _____ **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 _____ **Abiotic** _____
Species failure profile Branches Trunk Roots Describe _____

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 _____%
 Dead twigs/branches _____% overall Max. dia. _____
 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 _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A Minor Moderate Significant

Likelihood of failure Improbable Possible Probable Imminent

Part Size _____ Fall Distance _____

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 _____

Part Size _____ Fall Distance _____

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



Basic Tree Risk Assessment Form

Tree 3 page 1

Client Mary Ellen Green Date 6-15-20 Time _____
 Address/Tree location 220 Sumter Ave Tree no. 3 Sheet _____ of _____
 Tree species pine dbh _____ Height _____ Crown spread dia. _____
 Assessor(s) Bill Sebastian Tools used _____ 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	Garage	None			✓	2	No	No
2	Road	None			✓	3	No	No
3								
4								

Site Factors

History of failures _____ 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 _____
 Prevailing wind direction _____ 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 _____ Abiotic _____
 Species failure profile Branches Trunk Roots Describe _____

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 _____%
 Dead twigs/branches _____% overall Max. dia. _____
 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 _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A Minor Moderate Significant

Likelihood of failure Improbable Possible Probable Imminent

Part Size _____ Fall Distance _____

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 _____

Part Size _____ Fall Distance _____

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

Risk Categorization

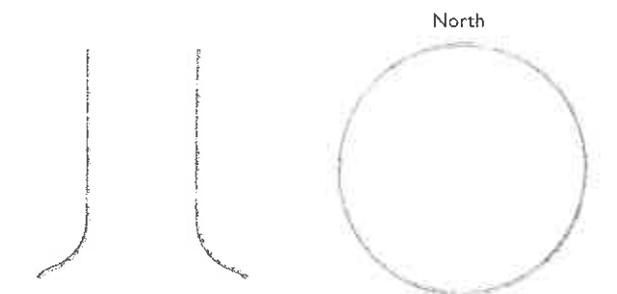
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood											Consequences				Risk rating (from Matrix 2)		
			Failure				Impact				Failure & Impact (from Matrix 1)			Negligible	Minor	Significant	Severe			
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely						Very likely	
Garage Road	Top of Tree	Hole Tree, falling and hitting Road or garage	✓						✓		✓							✓		low
			✓						✓		✓							✓		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

Mitigation options

- _____ 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 _____





1



1



1



2



2



3



3



4



4



STAFF REPORT
Tree Protection Committee Meeting
July 6, 2020

To: Town of Summerville Tree Protection Board
From: Bill Salisbury, Arborist/Natural Resource Planner
Date: June 29, 2020

GENERAL
INFORMATION

Property Applicant: Matthew Vega
Owner: Matthew Vega
Requested Action: Removal of six Pine trees and one Red Maple
Location: 205 Factors Walk
Guideline Citation: UDO Section 13.9.1.G

Decisions/Justifications: The TPB may approve, deny, or approve with conditions the application for the removal of a Grand Tree. No approval shall be granted unless the following one or more of the following conditions are determined to exist:

- 1. The Grand Tree is diseased, dead or dying; or*
- 2. The Grand Tree poses a safety hazard to nearby buildings, utility lines or pedestrian or vehicular traffic; or*
- 3. The Grand Tree prevents essential grade changes or all reasonable utility installations; or*
- 4. The Grand Tree prevents all reasonable site configurations; or*
- 5. The removal of the Grand Tree is the only reasonable means by which building, zoning, subdivision, health, public safety or other Town requirements can be met; or*
- 6. Grand Tree is located on the construction site and up to ten feet around the perimeter of the construction site of an approved building and related driveway parking area when every measure has been explored to preserve existing trees has failed, including the reconfiguration of the building and or driving/parking areas around the tree; or*
- 7. The lot is of such density with existing trees that the removal of certain protected trees is considered beneficial; or*
- 8. The removal of the Grand Tree has otherwise been approved by the Town Council.*

Evaluation: The Pine trees all look generally healthy. #1 is close to a sidewalk, #2 has two co-dominant stems which are twisting and rubbing each other, #3-5 are not perfect specimens in that they have crooked trunks. The Red Maple in the back yard was a co-dominant tree of which one half has been removed and the remaining portion is struggling.

Three Pines leaning

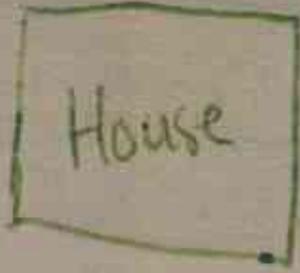
205 Factors Walk

Three Pines

Three Pines

- ③
- ④
- ⑤

- ②
- ①



- ⑥ maple



Basic Tree Risk Assessment Form

Tree 1 page 1

Client Matthew Vega Date 6-22-20 Time 9:45
 Address/Tree location 205 Factors Walk Tree no. 1 Sheet of
 Tree species pine dbh 23" Height 50' Crown spread dia. 30
 Assessor(s) Bill Salisbury Tools used 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	House	None	✓	✓		3	No	No
2	side walk	"	✓	✓		3	No	No
3	people	"	✓	✓		3	No	No
4	cars in Drive way	"		✓		3	No	No

Site Factors

History of failures None 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 normal
 Prevailing wind direction 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 Abiotic
 Species failure profile Branches Trunk Roots Describe

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 None
 Recent or expected change in load factors

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR %
 Dead twigs/branches i % overall Max. dia. 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
2 or 3 over-extended branches over sidewalk + House Condition(s) of concern
 Part Size 4" Fall Distance 40'
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure improbable Possible Probable Imminent
 Part Size Fall Distance
 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
 Part Size Fall Distance
 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 roots close to sidewalk + House
 Part Size Fall Distance
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure improbable Possible Probable Imminent



Basic Tree Risk Assessment Form

Tree 2 page 1

Client Matthew Vega Date 6-22-20 Time 9:45
 Address/Tree location 205 Factors Walk Tree no. 2 Sheet of
 Tree species Pine dbh 29 + 14" Height 45' Crown spread dia. 40
 Assessor(s) Bill Salibury Tools used Time frame 1 hr

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	House	None	✓	✓		3	No	No
2	side walk	"	✓	✓		3	No	No
3	people	"	✓	✓		3	No	No
4	car in driveway	"		✓		3	No	No

Site Factors

History of failures None 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
 Prevailing wind direction 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 Abiotic
 Species failure profile Branches Trunk Roots Describe

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 None
 Recent or expected change in load factors

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR %
 Dead twigs/branches % overall Max. dia.
 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 29" + 14" Included bark
 Weak attachments crotch Cavity/Nest hole % circ.
 Previous branch failures Similar branches present
 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Conks Heartwood decay
 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

Part Size Fall Distance
 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

Part Size Fall Distance

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

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)			Negligible	Minor	Significant	Severe				
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely						Very likely		
House	Hold Tree Limbs	Damage to House		✓														✓		low	
sidewalk				✓																✓	low
people	Limbs			✓																✓	low
cars				✓																	✓

Matrix 1. Likelihood matrix.

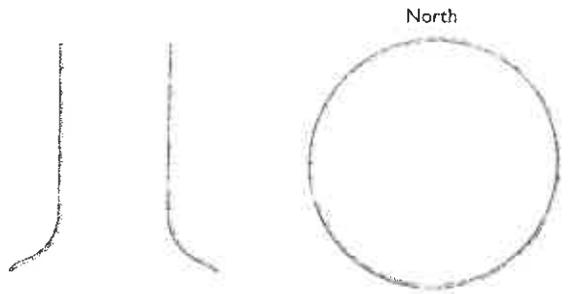
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

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

has codominant stems that are twisting around each other



Mitigation options

- _____ 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 _____



Basic Tree Risk Assessment Form

Tree 3 page 1

Client Matthew Vega Date 6-22-20 Time 9:45
 Address/Tree location 205 Factors Walk Tree no. 3 Sheet of
 Tree species pine dbh 25" Height 50 Crown spread dia. 30
 Assessor(s) Bill Elsbury Tools used Time frame 1 hour

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	House	None		✓		3	No	No
2	neighbor Driveway	None		✓		3	No	No
3								
4								

Site Factors

History of failures _____ 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 _____
 Prevailing wind direction _____ 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 _____ Abiotic _____
 Species failure profile Branches Trunk Roots Describe _____

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 _____ %
 Dead twigs/branches _____ % overall Max. dia. _____
 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 _____

Condition(s) of concern _____

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

Part Size _____ Fall Distance _____
 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 _____
 Part Size _____ Fall Distance _____

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

ISA Basic Tree Risk Assessment Form

Tree 4 page 1

Client Matthew Vega Date 6-22-20 Time 9:45
 Address/Tree location 205 Factors Walk Tree no. _____ Sheet _____ of _____
 Tree species pine dbh 23 Height 50' Crown spread dia. 30
 Assessor(s) Bill Elsbury Tools used _____ Time frame _____

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	House	None		✓		3	No	No
2	neighbor driveway			✓		3	No	No
3	cars			✓		3	No	No
4	people			✓		3	rw	rw

Site Factors

History of failures _____ 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 _____
 Prevailing wind direction _____ Common weather Strong winds Ice Snow Heavy rain Describe _____

Tree Health and Species Profile

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

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 None
 Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR _____%
 Dead twigs/branches _____% overall Max. dia. _____
 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 _____

Condition(s) of concern _____

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

Part Size _____ Fall Distance _____
 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 _____
 Part Size _____ Fall Distance _____

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



Basic Tree Risk Assessment Form

Tree 5 page 1

Client Matthew Vega Date 6-22-20 Time 9:45
 Address/Tree location 205 Factors Walk Tree no. _____ Sheet _____ of _____
 Tree species Pine dbh 23 Height 50 Crown spread dia. 30
 Assessor(s) Bill Elsbey Tools used _____ Time frame 1 hour

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	House	None		✓		3	16	16
2	Drive way	"		✓		3	16	16
3	LLVS	"		✓		3	16	16
4	people	"		✓		3	16	16

Site Factors

History of failures _____ 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 _____
 Prevailing wind direction _____ Common weather Strong winds Ice Snow Heavy rain Describe _____

Tree Health and Species Profile

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

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 None
 Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR _____ % 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 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Crown cleaned Thinned Raised Conks Heartwood decay
 Reduced Topped Lion-tailed Response growth _____
 Flush cuts Other _____

Condition(s) of concern _____

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

Part Size _____ Fall Distance _____
 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 _____

Part Size _____ Fall Distance _____

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

Risk Categorization

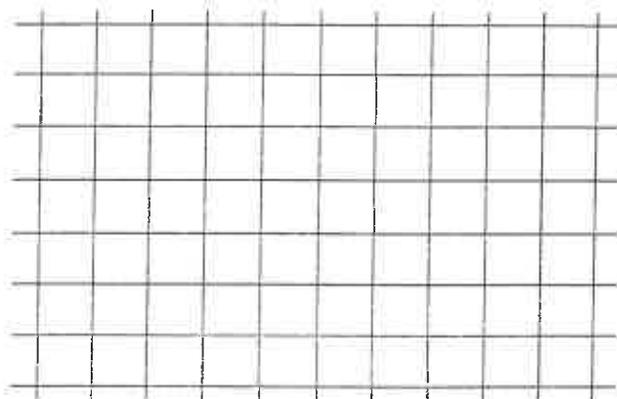
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood											Consequences				Risk rating (from Matrix 2)		
			Failure				Impact				Failure & Impact (from Matrix 1)			Negligible	Minor	Significant	Severe			
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely						Very likely	
House	Hold Tree	Tree Falling on house	✓							✓			✓							low
Driveway	Hold Tree	Tree Falling on Driveway	✓							✓			✓							low
cars	Hold Tree	Tree Falling on cars	✓										✓	✓						low
people	Hold Tree	Trees Falling in route	✓										✓	✓						low

Matrix 1. Likelihood matrix.

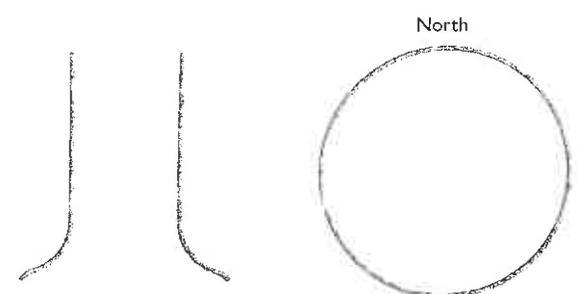
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

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



Mitigation options

- _____ 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 _____



Basic Tree Risk Assessment Form

Tree 6 page 1

Client Matthew Vega Date 6-22-20 Time 9:45
 Address/Tree location 205 Factors Walk Tree no. _____ Sheet _____ of _____
 Tree species Red maple dbh 14" Height 30' Crown spread dia. 20'
 Assessor(s) Bill Salazar Tools used _____ Time frame 1 hr

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	House	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	No	No
2								
3								
4								

Site Factors

History of failures _____ 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 _____
 Prevailing wind direction _____ Common weather Strong winds Ice Snow Heavy rain Describe _____

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal 40 % Chlorotic _____ % Necrotic _____ %
 Pests/Biotic _____ Abiotic _____
 Species failure profile Branches Trunk Roots Describe _____

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 >0 %
 Dead twigs/branches 30 % overall Max. dia. _____
 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 _____

Condition(s) of concern _____

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

Part Size _____ Fall Distance _____
 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 _____
 Part Size _____ Fall Distance 30'

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







3









5

4



5





3

4

5



4



4

3

2

1

