July 7, 2023

Ruchi Agarwal
City of Johns Creek
11360 Lakefield Drive
Johns Creek, GA 30097

RE: 8505 State Bridge Road
Tree Assessment

Dear Ms. Agarwal,

A Level II tree assessment was conducted on a 50" Diameter at Breast Height (DBH) Water Oak tree located at the above referenced location. The purpose of the assessment was to determine the current condition of the tree. The observations are as follows:

- The tree is located in an island that is elevated approximately 5' from the grade of an existing parking lot
- There is sufficient soil volume to support the root system of the tree
- There was no obvious irrigation present
- The soil moisture within the Critical Root Zone (CRZ) was found to be adequate
- There is moderate soil compaction within the CRZ
- There is one small old pruning wound on the northeast side of the tree at approximately 10' that has been weeping fluid
- There are multiple low overextended limbs with weak stem attachments
- There are numerous epicormic sprouts on the lower tree limbs
- There are multiple small dead limbs present in the upper canopy
- There are wounds with decay on two stems in the upper canopy
- Mistletoe is present in less than 1% of the upper canopy
- There is an approximate 15% thinning of foliage in the upper canopy
- Based on anecdotal experience, it is estimated that the tree is 100-130 years old
- The tree is in fair condition

This tree is currently exhibiting signs of decline in the upper canopy signified by two areas of obvious decline located on the northeast and southwest sides of the tree and a general slight thinning of foliage in the upper canopy. The lower portions of the tree canopy appear to be healthy.

The numerous epicormic sprouts (vertical small branches emanating from main tree branches) are an indicator that the tree is experiencing some type of stress often seen in trees during the initial stages of decline.

There are multiple low limbs that are overextended and are bearing a significant amount of foliar end weight. The typical failure mechanism of a mature hardwood tree is to start shedding these large, overextended limbs. The process is called retrenchment and is a common survival strategy intended to prolong its life.

There are two stems in the upper tree canopy that have obvious areas of decay, these stems will likely fail at some point within the next couple of years.

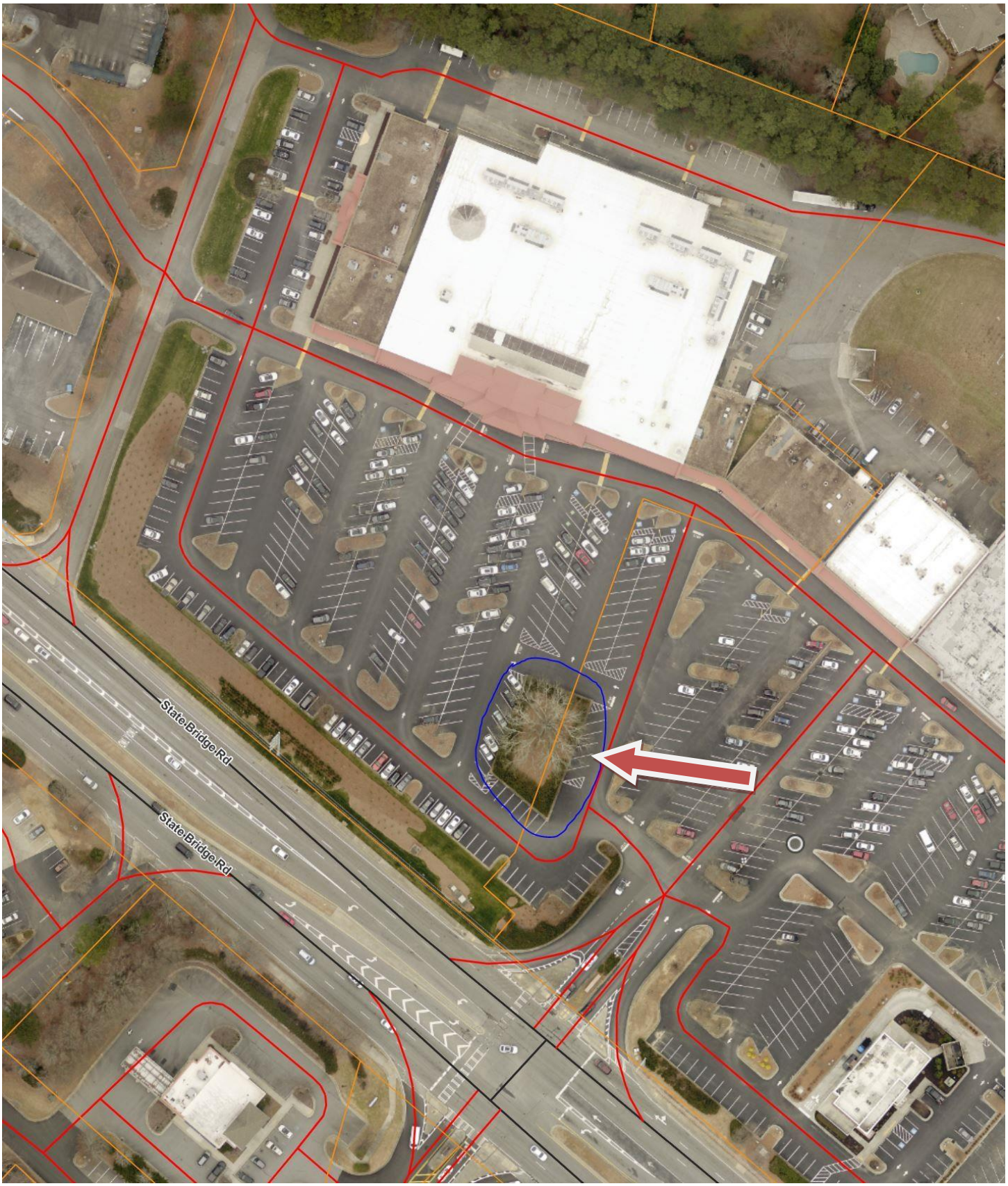
Per the City of Johns Creek tree ordinance, a specimen tree must meet a number of specific requirements, one of which includes that the tree "has a life expectancy of greater than 10 years." This tree meets the size and condition specimen tree criteria of the ordinance but does not meet the life expectancy expectation. As this tree is already in a state of decline, and will likely start shedding large limbs over the course of the next several years, it will not remain in its current fair condition, but is likely to degrade to poor condition over the next ten years. This mature Water Oak tree is nearing the end of its life in a typical urban environment.

Please call me at 404-354-2638 should you have any questions regarding this document.

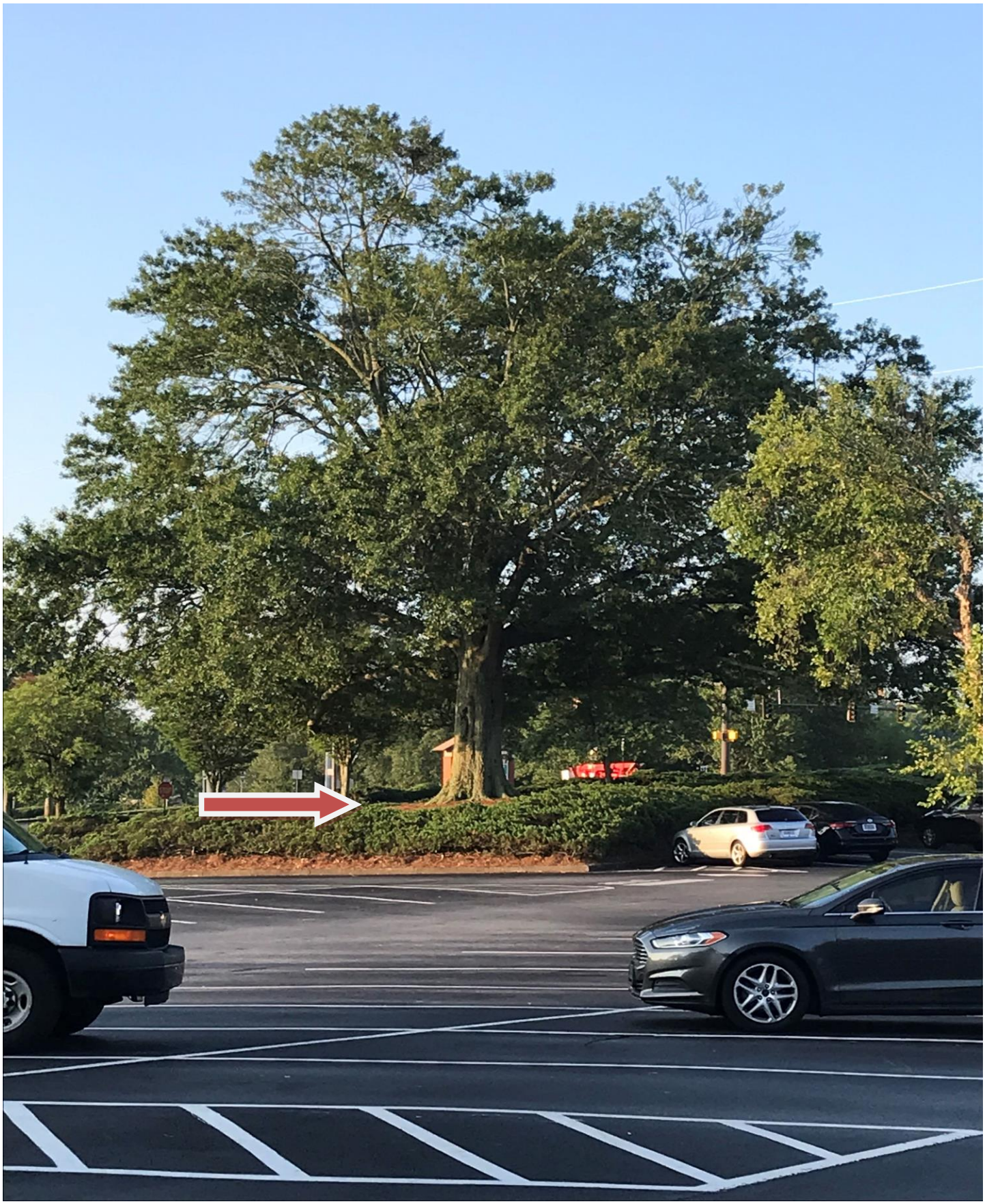
Respectfully,

David Dechant LEED AP, SITES AP, ENV SP
ISA Board Certified Master Arborist
ISA Certified Municipal Specialist
ISA Qualified Tree Risk Assessor
ISA Certificate #: SO-5335BM

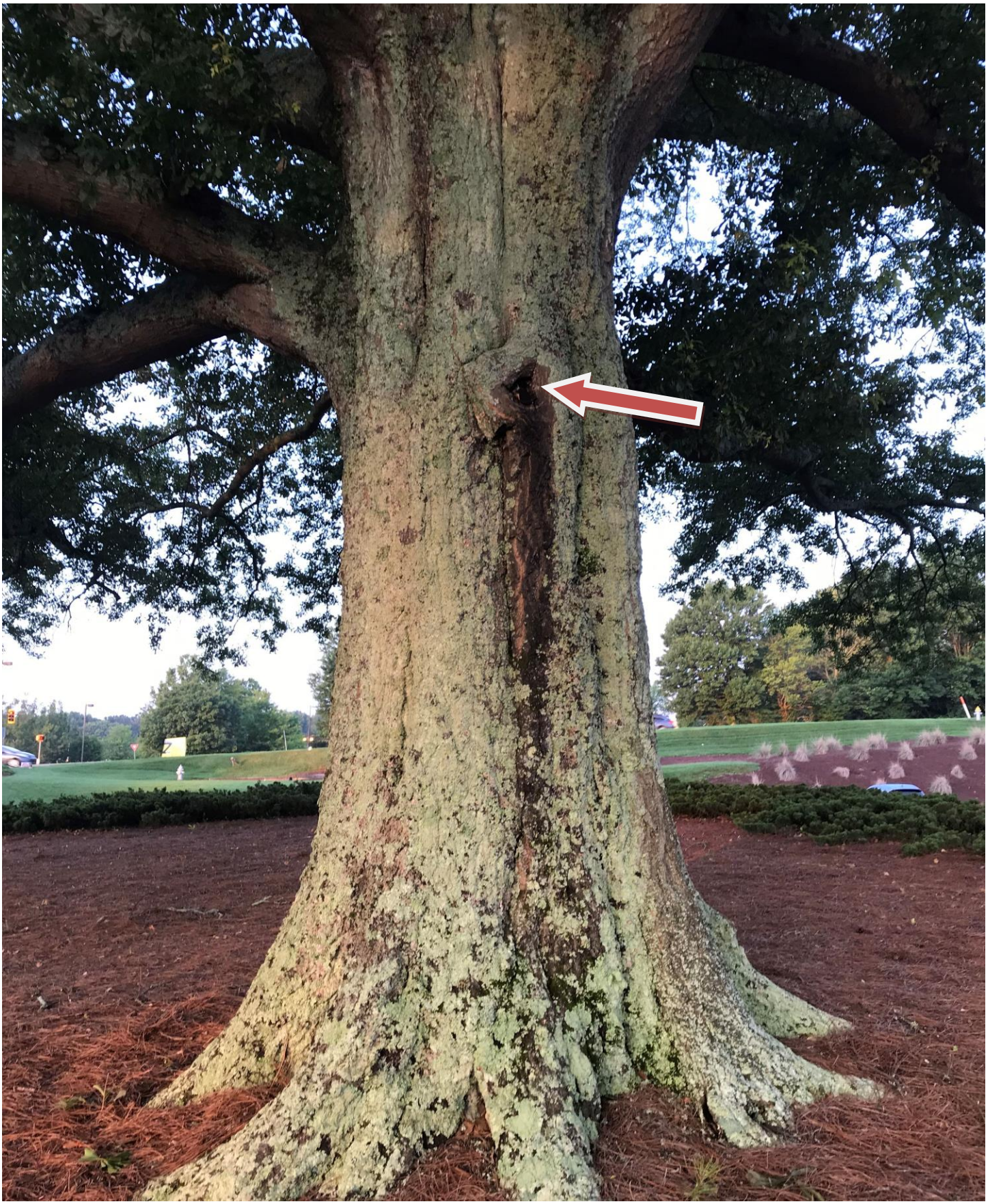
Exhibits



Location of assessed 50” Water Oak tree



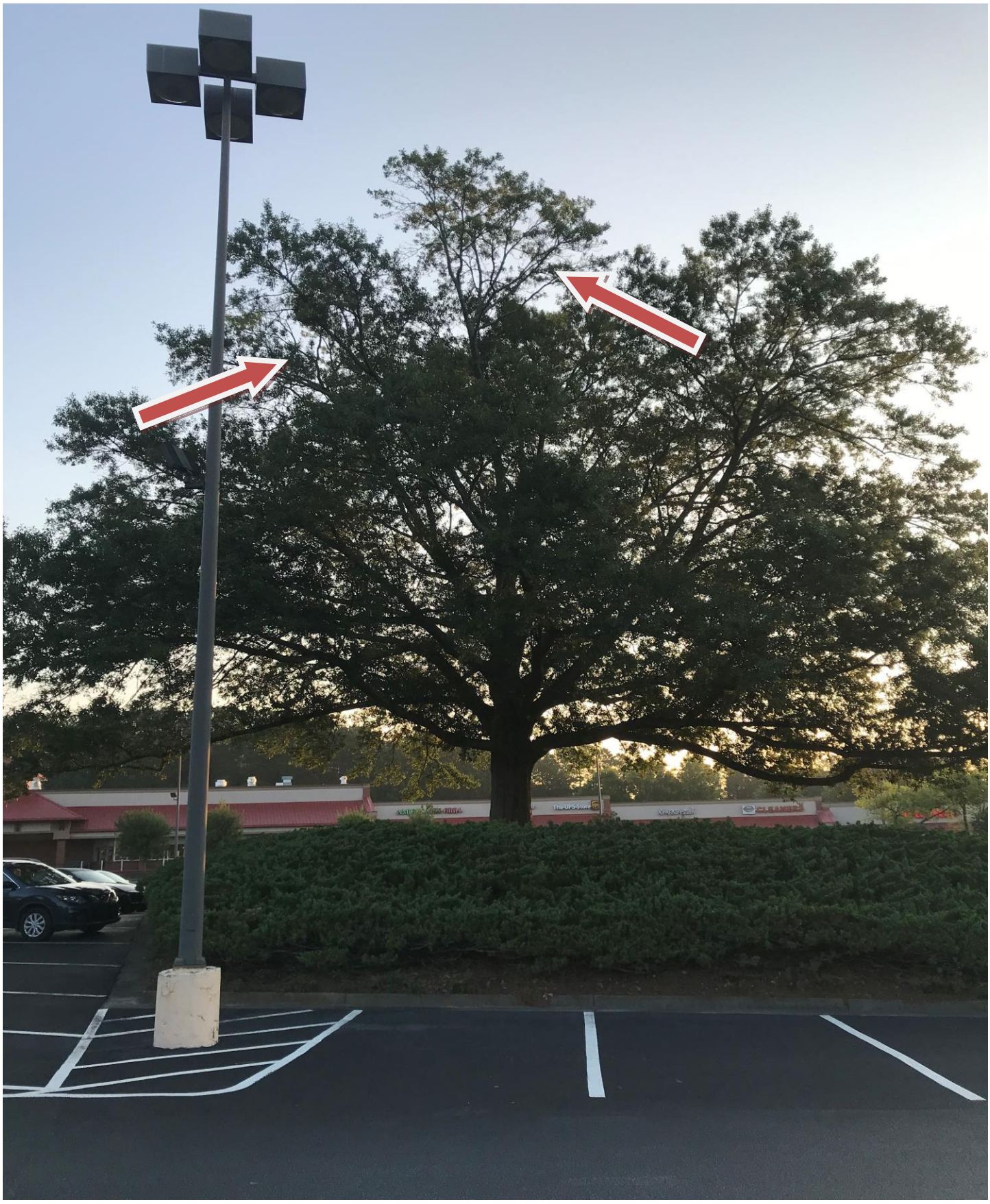
Landscape position of tree



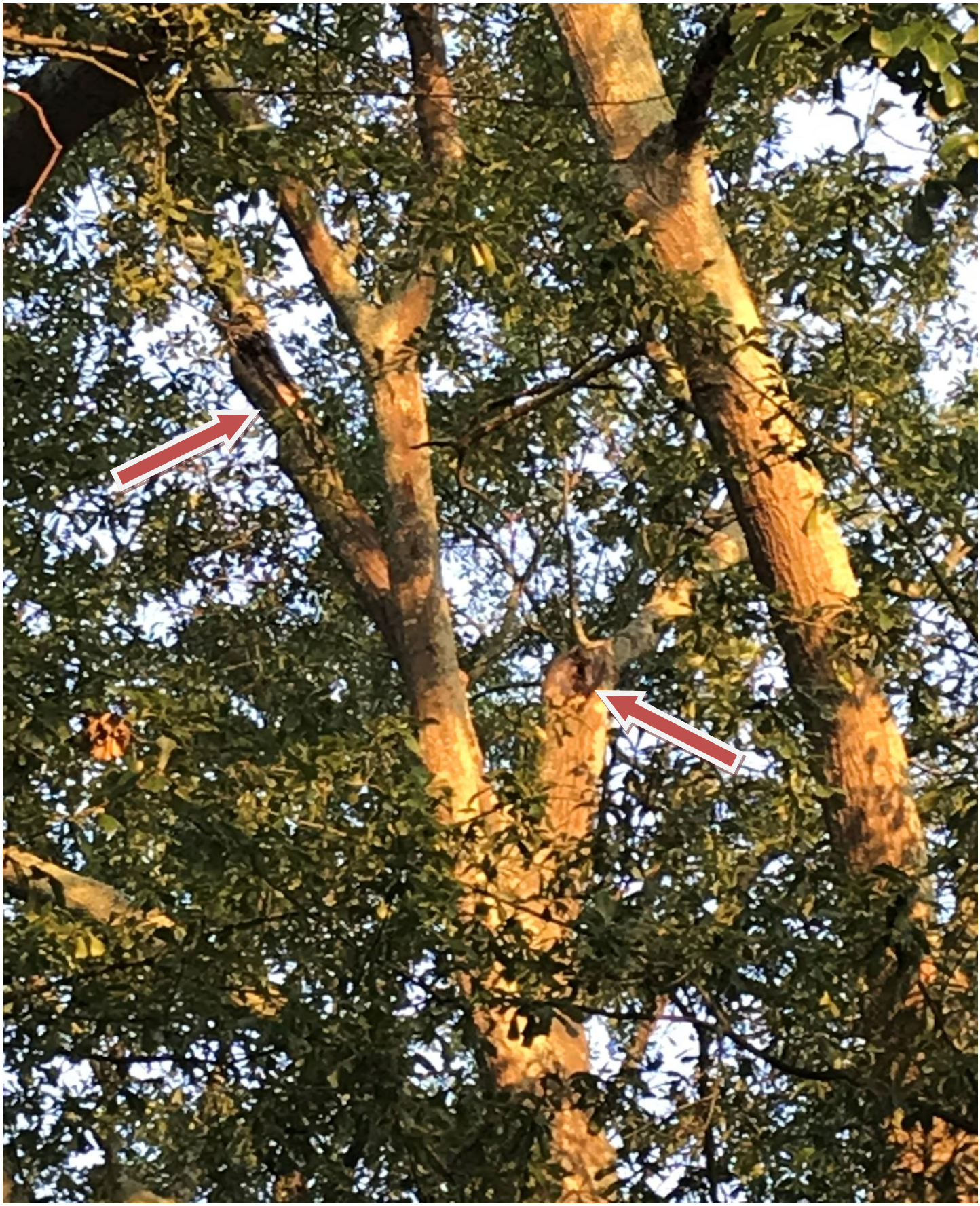
Location of bleeding wound

Examples of significant epicormic sprouting

Examples of overextended limbs



General thinning of the upper canopy



Two stems in upper canopy with decay