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Coleman Memorial Park 2026 Tree Management Plan

Prepared for The Friends of Coleman Memorial Park

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Good's Tree and Lawn Care

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Summary

In the spring of 2026, Jon Schach, an arborist with Goods Tree and Lawn Care Inc. inventoried 794 landscape trees and shrubs at Coleman Memorial Park. During the data collection process notes were made on tree health and risk as well as maintenance recommendations to improve tree health and mitigate risk. This report summarizes trees that were found to be at elevated risk of failure and outlines recommendations to mitigate some of that risk on a prioritized basis. These mitigations include tree removal, hazard pruning of deadwood and end weight reduction, and cable support installations. This report also includes priority pest and disease interventions of several key tree species

Assignment

The assignment was to develop a tree management plan based on information collected during inventory. This effort included:

- Conduct a *Level 1 Risk Assessment* of inventoried park trees as defined by the International Society of Arboriculture:
    - *… a limited visual assessment of an individual tree or population of trees. It can be performed as a "drive-by" assessment in the case of many trees or even as a limited assessment as might be performed during an estimating request.*
    - Trees were only documented for risk when a significant and obvious defect was observed that had a possibility of failing within the next 12 months AND when that failure had potential for hitting a target that would result in adverse consequences to the public, property, and infrastructure.
        - Only 26% of trees inventoried were documented with a risk rating.
- Collect the following data for inventoried park trees identified to need pruning, plant health care prescriptions and in instances where trees are found to be dead, in decline or otherwise compromised, tree removal:
    - Location
    - Diameter at 4.5 feet measured in feet
    - Condition (Good, Fair, Poor)
    - Priority
    - Recommendations

Limits of the Assignment

This assessment was conducted over multiple site visits in the spring of 2026. Trees included were given a brief visual assessment of health and risk of failure as was obvious at that time. A complete diagnostic risk assessment was not performed on any of the trees at Coleman Memorial Park. Therefore, defects elevating a tree's risk for failure may have been underestimated or missed entirely.

Purpose and Use

The purpose of this report is to provide grounds manager with a priority list of park tree care needs based on conditions at the time of assessment. It is understood that these recommendations may be used as a foundation for soliciting bids from arboricultural service contractors for performing services.

Baseline criteria for selecting tree care contractors should include Tree Care Industry Association (TCIA) membership and accreditation as well as staffing with Certified Arborists with the International Society of Arboriculture (ISA). All pesticide applications shall be performed by technicians holding current Applicator's Licensing with the PA Dept of Agriculture in the appropriate Categories.

Tree Risk Assessments

26% of trees were documented with a Risk Rating based on the Level 1 Risk Assessment conducted during inventory process. See Appendix 1 for lists and maps of trees with risk ratings. Determination to document risk rating was based on a defect being observed and/ or when the tree was declining or dead that would increase its risk of failure and carry consequences if it hit a target such as a person, vehicle, structure, Utility Infrastructure or road.

To summarize the process, the risk assessor considers the likelihood of a part of or the whole tree failing within the next 12 months.

- Branch
- Trunk
- Whole Tree

Likelihood of failure is measured qualitatively:

- Unlikely
- Possible
- Probable
- Imminent

The Likelihood of that failure will strike a target:

- Very Low
- Low
- Medium
- High

And the Consequences if a target is hit:

- Negligible
- Minor
- Significant
- Severe

Based on the above inputs, most trees carried a Low-Risk Rating. This is not because of size of the tree part or the likelihood of it failing is incidental or negligible, but rather the relatively low probability of a person(s) or vehicles passing under the tree at the moment of failure. Put another way, if someone or something happened to be under the tree when it failed the consequences could be significant or severe. But when you compare all the time throughout an entire year with the amount of time that a moving

target is beneath a tree it is very unlikely that the failure occurs when someone or something is in the target zone. Add to this, many limbs and trees fail during storm events when the public is less likely to be using the park. Trees that received a Medium or High-Risk Rating tended to be over buildings, utilities, or more frequented areas of the park.

We will never eliminate all risk of harm when walking under a canopy of large trees. The goal is to determine what level of risk managers are willing to assume to the public. This determination will be different in high traffic areas relative to natural areas or where people seldom visit.

Many of the trees listed with Risk Ratings can be mitigated by pruning to remove the hazardous limbs. Others can only be mitigated by removing the tree or restricting the area where the tree will fail. Of course this is not possible with conflicts of built infrastructure.

Pruning and Tree Removal Recommendations

The landscape trees at Coleman Memorial Park carry many benefits to the community and park visitors. Due to their size, and because they are living organisms with finite lifespans reactive to environmental stimuli, trees can also become a liability. When we assess trees, public safety and the protection of developed property is given the highest priority. A high priority is also given to pruning for proper clearances over roadways, parking areas, overhead lights, and buildings. When pruning cannot adequately mitigate the elevated risk that individual trees pose, they are recommended for removal.

NOTE: Besides the ongoing pruning for safety and clearances, structure pruning of younger trees is crucial for long term tree development and stability. Correcting structural defects is much easier and successful on young trees. This report does not include specific recommendations for structure pruning as the backlog for risk mitigation is considerable.

Appendix 2 lists and maps High Priority Tree Removals
Appendix 3 lists and maps Medium Priority Tree Removals
Appendix 4 lists and maps Lower Priority Tree Removals
Appendix 5 lists and maps High Priority Tree Pruning
Appendix 6 lists and maps Medium Priority Pruning
Appendix 7 lists and maps Lower Priority Pruning

Cabling and Bracing

In Arboriculture, an assortment of cabling and bracing applications are deployed in trees to shore up compromised structure that could increase risk of failure. When installed properly, these interventions can lessen the risk of failure. I recommend cabling of two trees that were inventoried. See Appendix 8. There are likely many other trees inventoried that would benefit from cabling and bracing but fall lower on the prioritization of all the work under consideration. These opportunities can be evaluated once overall condition of trees from a risk perspective are addressed.

Plant Health Care Concerns

As living organisms, trees are prone to impacts from pests and diseases as well as the environmental impacts of weather and climate. There are many interventions and measures that could be taken to manage a tree population of this significance. I wanted to document just a few that will have immediate impacts and protection for a subset of trees. See Appendix 9 for list of trees, concerns and maps.

Dutch Elm Disease

There is one American elm, *Ulmus americana* #345 at the center of the park just west of the maintenance building measuring 48 inches in diameter at breast height. The tree is in Fair condition but would benefit from pruning and treatment to suppress Dutch Elm Disease. Most of the American elm trees, once the primary shade tree of American streets and parks have succumbed to Dutch Elm Disease many years ago. There are only a few veteran specimens remaining in the county and worthy of protection as the pathogen is still present in the environment.

Treatment to suppress Dutch Elm Disease is a Trunk injected Macro-infusion of Fungicide called Arbotect 20 S (active ingredient Thiabendazole hypophosphite) that provides 3 years of disease suppression. Treatment is advised this season with the goal of suppressing any pathogen that may be present, and to allow the tree to re-establish Good health.

Spotted Lanternfly

The invasive Spotted Lanternfly infestation has likely peaked in our region but continues to impact several species of trees. Fortunately, most of these trees are the invasive Tree of Heaven, *Ailanthus altisimma*, but there are some important landscape trees that are also fed upon that can result in tree decline. The one of note at Coleman Memorial Park is the Bee Bee Tree, *Tetradium daniellii* #651 just west of the pickle ball courts. This is another uncommon tree in the landscape. I cannot think of another in the county.

A systemic insecticide, Transtect WSP 70 (Dinotefuron) applied to the trunk of the tree provides 90 days of pest suppression. The goal is to reduce the pest pressure on treated tree and the impact on the host tree.

Hemlock Woolly Adelgid and Elongate Hemlock Scale

Hemlock Woolly adelgid and Elongate hemlock scale are two invasive insect pests that have caused the decline and loss of many of our state tree, the Canadian hemlock, *Tsuga canadensis*. The adelgid attached the leaf needles and sucks out plant sugars from the phloem. The Elongate hemlock scale, an armored scale, attaches to leaf needles and sucks out cell contents. Both pests result in the loss of impacted needles and the eventual decline of the infested hemlocks over several years. There are six hemlocks at Coleman Memorial Park that are currently in Fair condition and that could improve with

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treatment to reduce pest infestations. There are several others that are beyond care that are on the removal list.

There are several treatments of the two invasive pests of hemlocks. We would likely apply a systemic insecticide applied to the trunk of the tree this year for control of adelgid and scale and a soil applied systemic insecticide next year for several years of suppression of the Hemlock woolly adelgid.

Beech Leaf Disease

Beech Leaf Disease (BLD) is a new threat to American beech, *Fagus grandifolia* and European Beech, *Fagus sylvatica*. The pathogen is a leaf nematode. The microscopic pest feeds on dormant buds in late summer and autumn resulting in damaged leaves in the following season. Over successive years the infestation worsens, and the infested trees cannot adequately conduct photosynthesis and procure resources. Trees decline and die after a few years if not treated.

There are currently three beech trees, #257,367, and 368 with active infestation of BLD at Coleman Memorial Park. Treatment is a macro-injection of Arbotect 20, S like treatment of Dutch Elm Disease but at a different rate and season. Treatments have been shown to suppress nematodes for 2-3 years.

Emerald Ash Borer

Emerald ash borer is an invasive insect pest that has been killing ash trees in Lebanon County since around 2011. The larval stage of the borer feeds under the bark in the vascular system effectively girdling the infested trees resulting in their decline and death within several years. There are six Green Ash, *Fraxinus pennsylvanica* and White Ash, *Fraxinus americana* that warrant treatment.

Treatment is a mico-trunk injection of Emamectin benzoate that has been shown to provide suppression for at least 3 years.

Other Plant Health Care Considerations

Monitoring for emergent issues is a foundation of plant health care and the management of woody plants for health and safety. Some important times for canopy inspections include:

- In the spring, when trees are leafing out and the best time to evaluate tree health and vitality.
- Late Spring to monitor for caterpillar infestations such as Spongy Moth that could cause rapid defoliation of oaks.
- After severe storms, prolonged wet and dry conditions, in conjunction with sustained high winds. After such events and episodes, it is important to check for
    - Tree failures
    - Partial tree failures
    - Broken/ hanging branches
    - Cracks and emergent cavities in trunk and limb wood.

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    - Cracks in soil that could indicate heaving and uprooting.

- Another invasive pest issue to be checking on regularly this season is for Box Tree Moth. This invasive pest is decimating boxwood in other areas and it will likely move in to our area at some point. Coleman Memorial Park has very mature boxwood at the back of the property at the foundation of an old estate home.

I would also like to gently recommend that park staff restrict driving heavy trucks and equipment over the root zones of mature specimen trees. Such traffic can damage roots and compact soils inhibiting healthy root development.

I also recommend the mulching of large specimen trees with 3 inches of wood chips between several feet up to the drip line of trees. Such cultural practices help:

- Reduce soil desiccation
- Lessen risk of compaction
- Provides a slow release of nutrients into the soil.
    - The regular removal of leaf litter provides a beautiful aesthetic to the park and maintains a quality turf grass in shaded conditions however it diminishes opportunities for recycling nutrients back into the trees.

Conclusion

Overall, the current condition of park trees is Fair to Good. There is a backlog of tree maintenance that should be addressed over the next few years for the health of the tree canopy as safety for park users and staff. It may seem concerning that there are 76 trees recommended for removal. It is my opinion that removal of these trees will improve the overall aesthetic of the park and be healthful for the trees that remain. It will also provide new planting opportunities for adding more diversity of species with the goal of reaching 100 species.

Regarding the 100 species to reach Arboretum Level 2 Status: We may be closer than it appears. There are several species of shrubs within the park that were not included, that may help us reach the mark. It is also possible that the reevaluation of several species that could not be verified will increase the count as well. We look forward to continuing to partner with the Friends of Coleman Park with the goal of maintaining this gem in the Lebanon County.

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Appendix 1: Tree Risk Rating Assessment

Table 1: The table below lists trees that returned a Risk Rating. Trees were assessed for risk when they had a defect that could result in full or partial failure AND if there was a chance of it impacting a target. DBH is Trunk Diameter at Breast Height 4.5 feet above ground level measured in inches. Assessed part of the tree categorizes the part of tree with defect. Tree Work lists the mitigation measures. Deadwood signifies pruning to remove deadwood 2 inches in diameter and larger. List starts with trees returning a High-Risk Rating followed by Moderate and then Low Risk. Only 26% of trees were assessed for risk. Other trees didn't either have an obvious defect or a target to hit.

Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
196	White oak	35	Fair	Branch		High	High	Deadwood
294	Northern red oak	28	Fair	Branch		High	High	Deadwood
413	Black oak	22	Fair	Branch		High	High	Deadwood
427	Northern red oak	19	Fair	Branch		High	High	Deadwood
636	White oak	36	Fair	Whole Tree	Inspect, very hollow		High	Monitor or remove
2056	Northern red oak	35	Poor	Whole Tree			High	Remove
8	White oak	46	Fair	Branch	Wood decay fungus	High	Moderate	Deadwood
103	Norway maple	35	Fair	Branch		High	Moderate	Crown Reduce, Deadwood, Reduce end weight
132	Red maple	23	Fair	Branch		High	Moderate	Deadwood
183	Norway maple	19	Poor	Whole Tree		Medium	Moderate	Remove
190	Northern red oak	41	Good	Branch		Medium	Moderate	Deadwood
227	Northern red oak	36	Fair	Branch		High	Moderate	Deadwood
270	White oak	26	Fair	Branch		Medium	Moderate	Deadwood
302	Norway maple	18	Poor	Trunk		Medium	Moderate	Remove
305	Northern catalpa	26	Poor	Whole Tree	Cavity	High	Moderate	Remove
312	Northern catalpa	28	Fair	Branch		High	Moderate	Deadwood
330	Sweetgum	32	Fair	Whole Tree	Girdling Root		Moderate	Monitor
390	Sweetgum	20	Poor	Trunk		Low	Moderate	Remove

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
397	White oak	34	Good	Branch		Medium	Moderate	Deadwood
401	White oak	40	Good	Branch		High	Moderate	Deadwood
433	Black oak	23	Poor	Branch		High	Moderate	Remove
450	Northern red oak	28	Fair	Branch		High	Moderate	Deadwood
458	Northern red oak	20	Fair	Branch		Medium	Moderate	Deadwood
483	Northern red oak	28	Fair	Branch		Medium	Moderate	Deadwood
580	White oak	39	Good	Branch		Medium	Moderate	Deadwood
659	American sycamore	27	Fair	Trunk	Cavity		Moderate	Monitor
664	American sycamore	33	Good	Branch		Medium	Moderate	Deadwood
683	Sycamore maple	19	Fair	Whole Tree		Medium	Moderate	Deadwood
703	White oak	33	Good	Branch		Medium	Moderate	Deadwood
714	White oak	37	Good	Branch		Medium	Moderate	Deadwood
732	Northern red oak	31	Fair	Branch		Medium	Moderate	Deadwood
733	Northern red oak	35	Good	Branch		Medium	Moderate	Deadwood
734	Royal paulownia	32	Fair	Branch		High	Moderate	Deadwood
736	Royal paulownia	36	Fair	Branch		Medium	Moderate	Crown Reduce, Deadwood, Reduce end weight
739	Red maple	31	Fair	Trunk	Co-dominant tree	Medium	Moderate	Crown Reduce, Deadwood, Reduce end weight, cable
2017	Red maple	36	Poor	Branch		High	Moderate	Remove
2018	Norway maple	26	Poor	Trunk		High	Moderate	Remove
2031	Black cherry	18	Dead	Trunk		High	Moderate	Remove
2032	Black oak	34	Dead	Branch		High	Moderate	Remove
2038	Sugar maple	25	Poor	Branch		High	Moderate	Remove
2039	Northern red oak	55	Poor	Whole Tree		High	Moderate	Remove

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
2042	Red maple	15	Poor	Trunk		Medium	Moderate	Remove
2046	Black locust	10	Poor	Whole Tree		Low	Moderate	Remove
2047	Black locust	35	Poor	Trunk		Medium	Moderate	Remove
2	White oak	31	Fair	Branch		Low	Low	Deadwood
4	Honey locust	27	Poor	Whole Tree	Cavity	Medium	Low	Deadwood and monitor
6	Norway maple	22	Poor	Branch		Low	Low	Remove
10	Northern red oak	21	Fair	Whole Tree			Low	Monitor
11	White oak	41	Fair	Branch		High	Low	Deadwood
12	Sycamore maple	14	Poor	Branch		Low	Low	Remove
14	Northern red oak	46	Fair	Branch		Medium	Low	Deadwood
16	Black tupelo	25	Fair	Branch			Low	Deadwood
19	Northern red oak	48	Fair	Branch		High	Low	Deadwood
20	White oak	34	Fair	Branch	Wood decay Fungus	High	Low	Deadwood and monitor
30	Chinese chestnut	16	Good	Branch		Medium	Low	Deadwood
31	Black tupelo	26	Fair	Trunk			Low	Monitor
41	Red maple	26	Good	Trunk		Low	Low	Deadwood and monitor
44	Sycamore maple	17	Poor	Branch		Low	Low	Deadwood
48	Sycamore maple	16	Poor	Branch		Medium	Low	Remove
54	Black tupelo	26	Fair	Branch		Low	Low	Deadwood
58	White oak	28	Good	Branch		Low	Low	Deadwood
63	White oak	37	Good	Branch		Low	Low	Deadwood
64	Northern red oak	45.31	Poor	Branch		Medium	Low	Remove
65	Northern red oak	50	Good	Branch		Medium	Low	Deadwood
66	Northern red oak	23	Fair	Branch		Medium	Low	Deadwood

Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
67	White oak	34	Good	Branch		Medium	Low	Deadwood
69	White oak	31	Good	Branch		Medium	Low	Deadwood
76	White oak	33	Good	Branch		Medium	Low	Deadwood
79	Sycamore maple	17	Poor	Branch		Low	Low	Deadwood
81	Sycamore maple	22	Fair	Branch		Low	Low	Deadwood
82	Sycamore maple	18	Poor	Branch		Low	Low	Deadwood
92	Horse chestnut	30	Fair	Branch		Medium	Low	Deadwood
96	Sycamore maple	15.56	Poor	Branch		Medium	Low	Deadwood
104	Norway maple	19	Fair	Whole Tree		Medium	Low	Monitor
108	Horse chestnut	17	Fair	Branch		Medium	Low	Deadwood
117	Red maple	21	Fair	Branch			Low	Deadwood
119	White oak	43	Fair	Branch	Lightning	Low	Low	Deadwood
119	White oak	43	Fair	Branch	Lightning, Mechanical Damage	Medium	Low	Deadwood, Reduce end weight
121	Red maple	22	Poor	Branch		Medium	Low	Deadwood or Remove
123	White oak	29	Fair	Branch		Medium	Low	Deadwood
130	Northern red oak	32	Fair	Whole Tree	Leaning trunk, possible uproot	High	Low	Deadwood and monitor or remove
134	Northern red oak	27	Fair	Branch		Medium	Low	Deadwood
135	Black tupelo	28	Fair	Branch		Medium	Low	Deadwood
136	Black tupelo	21	Fair	Branch		Low	Low	Deadwood
142	Black locust	9	Fair	Branch		Low	Low	Deadwood
144	White oak	37	Fair	Branch			Low	Monitor
148	Sycamore maple	26.42	Poor	Branch		Medium	Low	Deadwood
150	White oak	40	Fair	Branch		Medium	Low	Deadwood

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
155	Northern red oak	37	Poor	Branch		Medium	Low	Deadwood
164	Black tupelo	27	Good	Branch		Medium	Low	Deadwood
168	Black locust	15	Fair	Branch		Low	Low	Deadwood
179	White oak	47	Good	Branch		Low	Low	Deadwood
180	White oak	31	Fair	Branch		Medium	Low	Deadwood
181	White oak	32	Good	Branch		Medium	Low	Deadwood
185	Norway maple	31	Fair	Branch			Low	Deadwood
193	Black locust	18	Poor	Whole Tree			Low	Monitor
195	Northern red oak	17	Fair	Branch		Medium	Low	Deadwood
197	White oak	27	Fair	Branch		Medium	Low	Deadwood
200	Norway maple	32	Fair	Branch			Low	Deadwood, Reduce end weight
204	European Ash	40	Fair	Branch		High	Low	Deadwood
209	Horse chestnut	34	Fair	Branch		High	Low	Deadwood
210	Horse chestnut	25	Fair	Branch		Medium	Low	Deadwood
214	Honey locust	34	Fair	Branch		Medium	Low	Deadwood
216	Littleleaf linden	35	Fair	Branch		Medium	Low	Deadwood
218	Norway maple	35	Fair	Branch		Medium	Low	Deadwood
219	Norway maple	38	Fair	Branch		Medium	Low	Deadwood, Reduce end weight
225	Northern red oak	60	Fair	Branch		High	Low	Deadwood and monitor
226	Norway maple	25	Fair	Branch		Medium	Low	Deadwood
229	White oak	27	Fair	Branch		Medium	Low	Deadwood
231	Northern red oak	30	Fair	Branch		Medium	Low	Deadwood
232	White oak	41	Good	Branch		High	Low	Deadwood
234	Northern red oak	25	Poor	Branch		Medium	Low	Deadwood

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
237	Northern red oak	24	Poor	Branch		Medium	Low	Deadwood
238	White oak	34	Good	Branch		Low	Low	Deadwood
248	Northern red oak	37	Fair	Branch		Low	Low	Deadwood
251	Northern red oak	27	Fair	Branch		Medium	Low	Deadwood
252	Black locust	25	Poor	Trunk		Medium	Low	Remove
255	Northern red oak	33	Fair	Branch		Medium	Low	Deadwood
256	Northern red oak	29	Fair	Branch		Low	Low	Deadwood
258	Northern red oak	34	Fair	Branch		Medium	Low	Deadwood
259	Northern red oak	28	Poor	Branch		Low	Low	Deadwood
261	Northern red oak	26	Poor	Whole Tree		Low	Low	Remove
263	Northern red oak	42	Fair	Branch		Low	Low	Deadwood
284	White oak	41	Good	Branch		Medium	Low	Deadwood
289	White oak	16	Fair	Branch		Medium	Low	Deadwood
297	White oak	33	Good	Branch		Medium	Low	Deadwood
299	White oak	30	Fair	Branch		Medium	Low	Deadwood
301	White oak	50	Fair	Branch		Medium	Low	Deadwood and monitor
303	Norway maple	23	Poor	Trunk		Medium	Low	Remove
304	Canadian hemlock	11	Poor	Whole Tree		Low	Low	Remove
324	Honey locust	27	Poor	Branch		Medium	Low	Deadwood or Remove
345	American elm	48	Fair	Branch		Medium	Low	Deadwood
361	Northern red oak	36	Poor	Branch		Medium	Low	Deadwood
370	Horse chestnut	35	Fair	Branch		Low	Low	Deadwood
382	Norway maple	17	Fair	Whole Tree			Low	Monitor

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
384	Norway maple	13	Poor	Trunk			Low	Monitor
385	Norway maple	16	Fair	Whole Tree			Low	Monitor
392	Silver maple	38	Fair	Whole Tree	Very hollow	Medium	Low	Deadwood, reduce end weight or remove
409	White oak	22	Fair	Branch		Medium	Low	Deadwood
415	White oak	28	Good	Branch		Medium	Low	Deadwood
417	Black oak	38	Fair	Branch		Medium	Low	Deadwood
419	White oak	22	Fair	Branch		Medium	Low	Deadwood
421	White oak	16	Fair	Branch		Medium	Low	Deadwood
434	Northern red oak	27	Fair	Branch		Low	Low	Deadwood
435	Northern red oak	26	Fair	Branch		Low	Low	Deadwood
436	White oak	22	Good	Branch		Medium	Low	Deadwood
442	Northern red oak	25	Good	Branch		Medium	Low	Deadwood
444	Northern red oak	21	Fair	Branch		Medium	Low	Deadwood
454	Northern red oak	24	Fair	Branch		Medium	Low	Deadwood
456	Black birch	11	Poor	Trunk		Low	Low	Remove
459	Northern red oak	23	Fair	Branch		Medium	Low	Deadwood
465	Black oak	29	Good	Branch		Low	Low	Deadwood
469	Black oak	16	Poor	Trunk		Low	Low	Monitor
470	Black oak	19	Fair	Branch		Low	Low	Deadwood
481	Black oak	21	Good	Branch		Low	Low	Deadwood
484	Northern red oak	29	Good	Branch		Medium	Low	Deadwood
485	White oak	23	Fair	Branch		Low	Low	Deadwood
487	Northern red oak	24	Good	Branch		Medium	Low	Deadwood
488	Northern red oak	32	Good	Branch		Medium	Low	Deadwood
501	Northern red oak	35	Fair	Branch		Low	Low	Deadwood

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
504	Northern red oak	27	Fair	Branch		Low	Low	Deadwood
507	Northern red oak	24	Good	Branch		Low	Low	Deadwood
513	White oak	13	Fair	Branch		Low	Low	Deadwood
517	Sweetgum	18	Good	Trunk			Low	Monitor
537	Sassafras	14	Poor	Trunk		Low	Low	Deadwood, reduce end weight or remove
539	Black locust	19	Poor	Trunk		Low	Low	Deadwood and monitor or remove
550	Black locust	24	Fair	Whole Tree			Low	Monitor
561	Honeylocust	23	Fair	Branch		Low	Low	Deadwood
573	Black locust	9	Fair	Trunk			Low	Monitor
593	White oak	27	Good	Branch		Medium	Low	Deadwood
619	White oak	32	Good	Branch		Medium	Low	Deadwood
626	Black oak	29	Good	Branch		Low	Low	Deadwood
632	Northern red oak	27	Fair	Branch		Medium	Low	Deadwood
633	White oak	42	Fair	Trunk	Co-dominant tree		Low	Monitor
641	Tulip tree	34	Fair	Trunk			Low	Monitor
642	White oak	40	Fair	Trunk			Low	Monitor
656	American sycamore	27	Fair	Branch		Low	Low	Deadwood
665	American sycamore	24	Good	Branch		Low	Low	Deadwood
670	Sycamore maple	25	Poor	Branch		Low	Low	Deadwood or remove
686	Norway maple	27	Poor	Trunk		Low	Low	Monitor
692	Northern red oak	31	Poor	Whole Tree		Medium	Low	Remove
716	White oak	34	Good	Branch		High	Low	Deadwood
718	Northern red oak	34	Fair	Branch	Girdling Root	High	Low	Deadwood

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Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
719	White oak	33	Fair	Branch		Medium	Low	Deadwood
725	White oak	33	Fair	Branch		Medium	Low	Deadwood
735	Royal paulownia	15	Poor	Trunk		Medium	Low	Remove
2001	Sycamore maple	9	Poor	Branch		Low	Low	Remove
2002	Black cherry	23	Fair	Branch		Low	Low	Deadwood
2003	Black cherry	18	Fair	Branch		Low	Low	Deadwood
2010	Norway maple	16	Poor	Whole Tree		Medium	Low	Monitor
2011	Sycamore maple	13	Poor	Branch		Low	Low	Remove
2015	Sycamore maple	22.89	Poor	Trunk		Medium	Low	Remove
2016	Sycamore maple	16	Poor	Branch		Low	Low	Deadwood
2019	Horse chestnut	15	Poor	Branch		Low	Low	Remove
2020	Red maple	16	Poor	Branch		Low	Low	Remove
2021	Sycamore maple	16	Poor	Trunk		Medium	Low	Deadwood
2022	Sycamore maple	9	Poor	Branch		Low	Low	Remove
2023	Northern red oak	38	Dead	Branch		High	Low	Remove
2024	Black cherry	17	Poor	Whole Tree		Medium	Low	Remove
2025	Sycamore maple	18	Poor	Trunk		High	Low	Monitor
2026	Sycamore maple	11	Poor	Branch		Low	Low	Remove
2027	Sycamore maple	12	Poor	Branch		Low	Low	Deadwood
2029	Sycamore maple	12	Poor	Branch		Low	Low	Remove
2030	Red maple	16	Poor	Branch		Low	Low	Remove
2034	Sycamore maple	15	Poor	Branch		Medium	Low	Remove
2037	White ash	13	Poor	Branch		Medium	Low	Remove

Tag #	Common Name	DBH	Cond.	Assessed Tree Part	Notes	Priority	Risk Rating	Tree Work
2043	Northern red oak	18	Dead	Branch		Medium	Low	Remove
2058	White oak	38	Dead	Whole Tree		High	Low	Remove

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Image 1 shows the location of trees carrying a High-Risk Rating. Numbers correspond to Tag # in table above.

Image 2 shows the location of trees carrying a Moderate-Risk Rating. Numbers correspond to Tag # in table above.

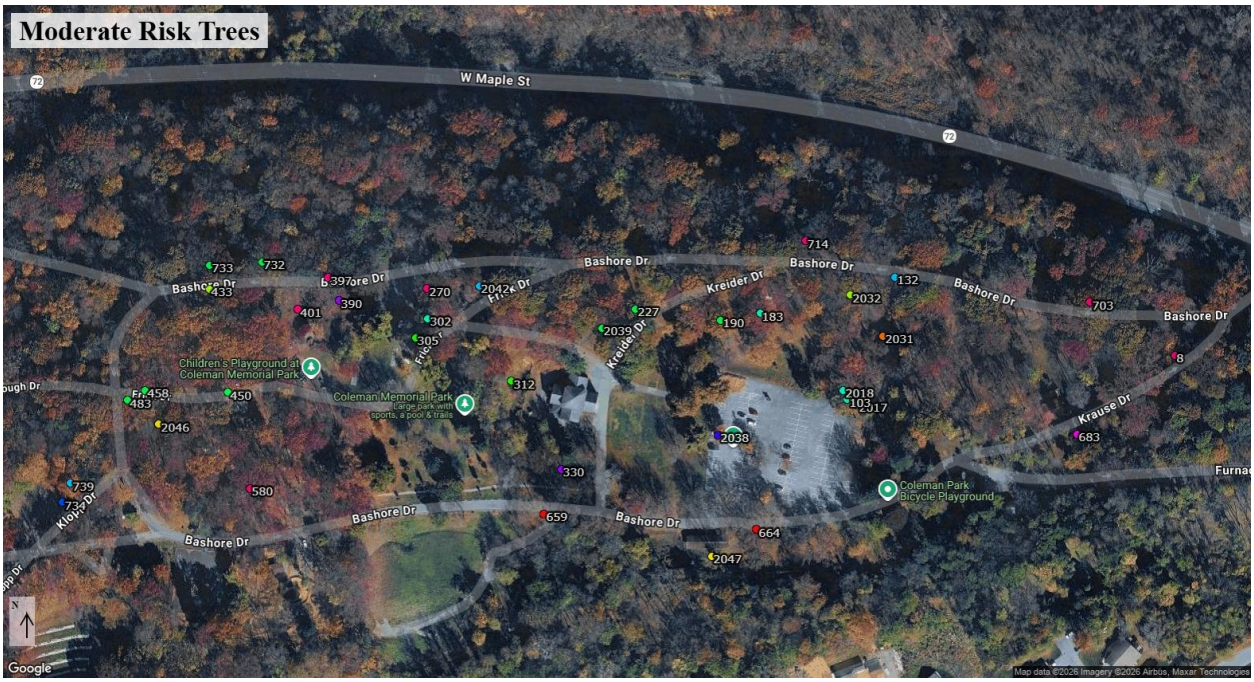

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Image 3 shows the location of trees carrying a Low-Risk Rating. Numbers correspond to Tag # in table above.

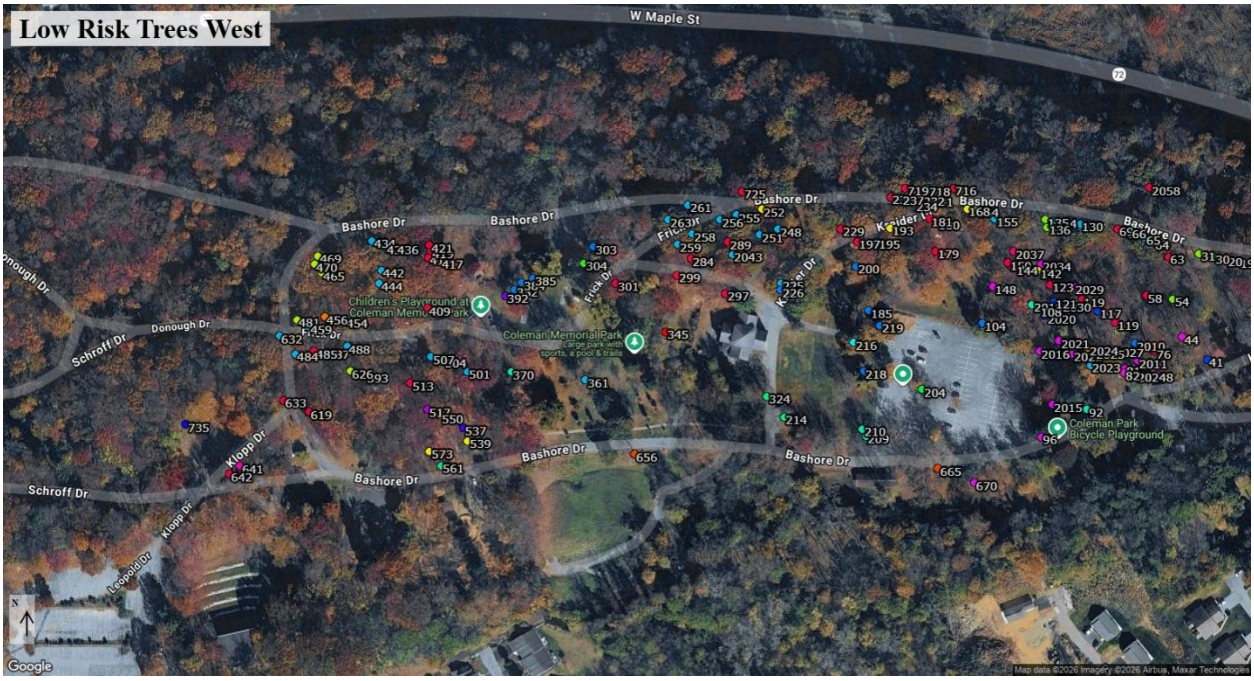
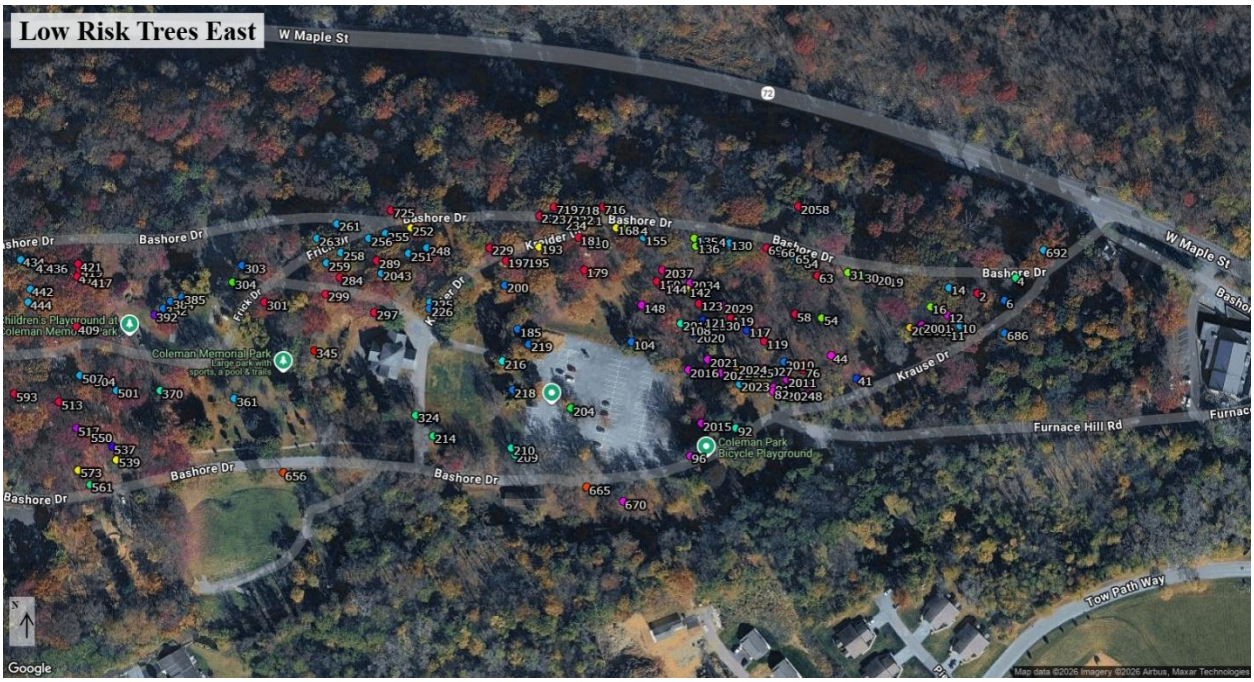


Image 4 shows the location of trees carrying a Low-Risk Rating. Numbers correspond to Tag # in table above.



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Appendix 2: High Priority Tree Removal Recommendations

Table 2 lists High Priority tree removals based on poor condition and risk to the public, and property.

Tag #	Common Name	DBH	Condition	Priority
130	Northern red oak	32	Fair	High
305	Northern catalpa	26	Poor	High
433	Black oak	23	Poor	High
2017	Red maple	36	Poor	High
2018	Norway maple	26	Poor	High
2023	Northern red oak	38	Dead	High
2031	Black cherry	18	Dead	High
2032	Black oak	34	Dead	High
2038	Sugar maple	25	Poor	High
2039	Northern red oak	55	Poor	High
2056	Northern red oak	35	Poor	High
2058	White oak	38	Dead	High

Image 5 shows the location High Priority tree removals based on poor condition and risk to the public, and property.

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Appendix 3: Medium Priority Tree Removal Recommendations

Table 3 lists Medium Priority tree removals based on poor condition and risk to the public, and property.

Tag #	Common Name	DBH	Condition	Priority
48	Sycamore maple	16	Poor	Medium
64	Northern red oak	45.31	Poor	Medium
121	Red maple	22	Poor	Medium
183	Norway maple	19	Poor	Medium
252	Black locust	25	Poor	Medium
302	Norway maple	18	Poor	Medium
303	Norway maple	23	Poor	Medium
392	Silver maple	38	Fair	Medium
692	Northern red oak	31	Poor	Medium
735	Royal paulownia	15	Poor	Medium
2015	Sycamore maple	22.89	Poor	Medium
2024	Black cherry	17	Poor	Medium
2034	Sycamore maple	15	Poor	Medium
2037	White ash	13	Poor	Medium
2042	Red maple	15	Poor	Medium
2043	Northern red oak	18	Dead	Medium
2044	Spruce	17	Dead	Medium
2045	Canadian hemlock	11	Dead	Medium
2047	Black locust	35	Poor	Medium
2048	Sycamore maple	17	Poor	Medium
2054	Sycamore maple	19	Poor	Medium
2056	Northern red oak	35	Poor	Medium

Image 6 shows the location Medium Priority tree removals based on poor condition and risk to the public, and property.

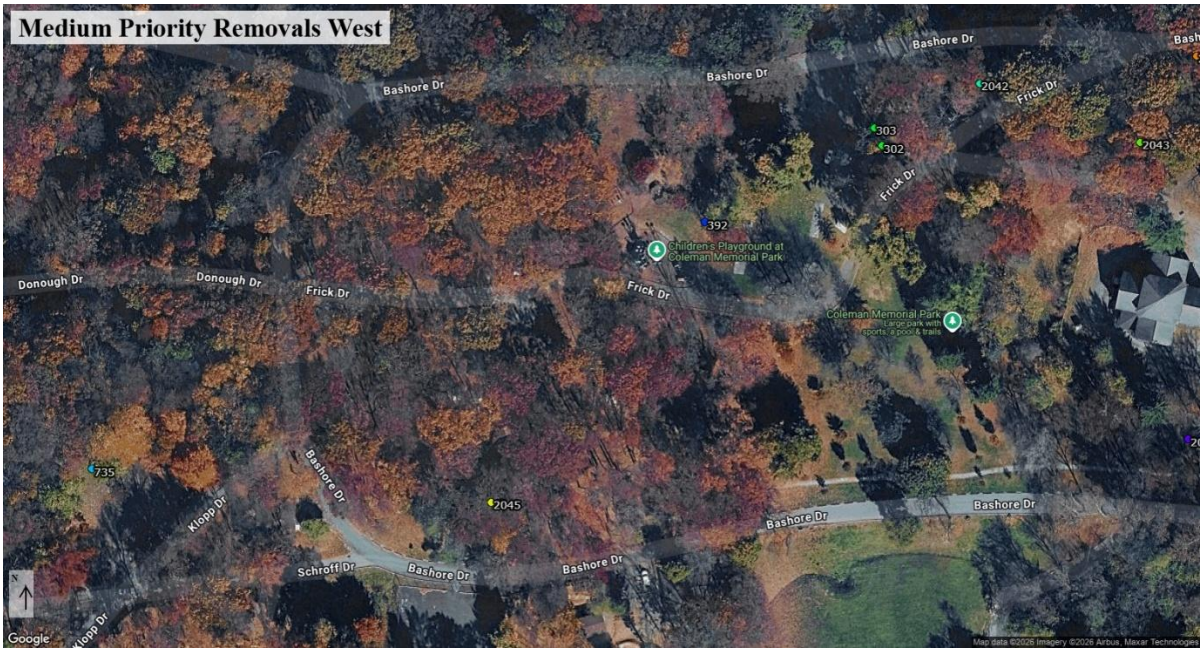
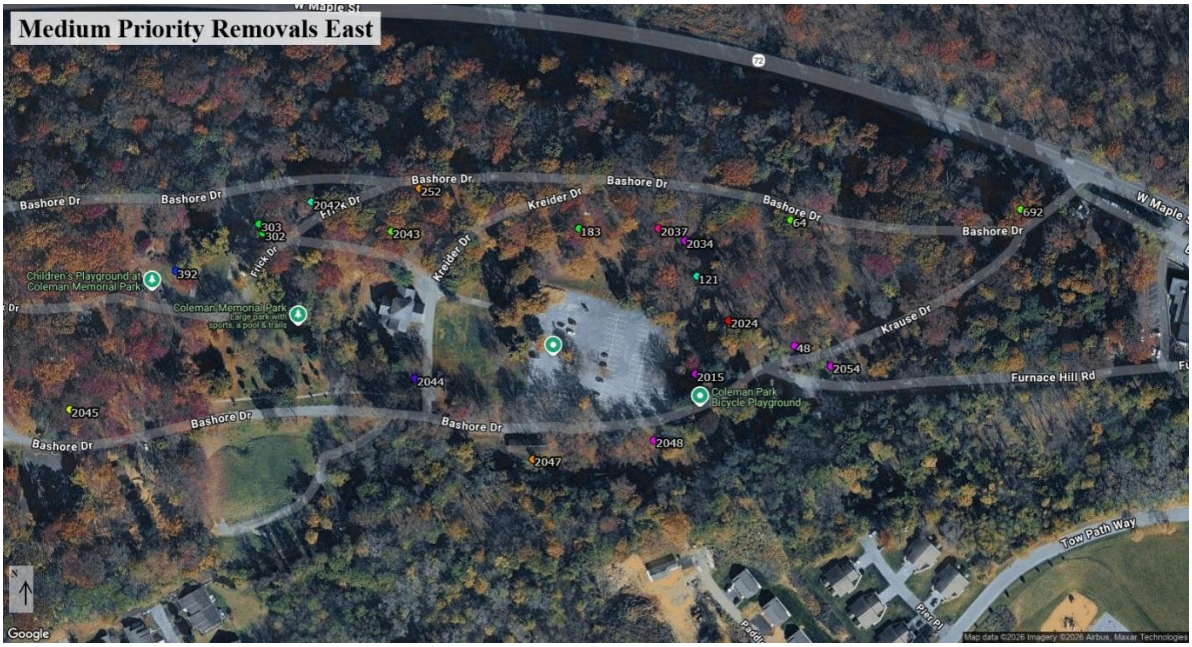


Image 7 shows the location Medium Priority tree removals based on poor condition and risk to the public, and property.



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Appendix 4: Lower Priority Tree Removal Recommendations

Table 4 lists Lower Priority tree removals based on poor condition and risk to the public, and property.

Tag #	Common Name	DBH	Condition	Priority
6	Norway maple	22	Poor	Low
12	Sycamore maple	14	Poor	Low
261	Northern red oak	26	Poor	Low
304	Canadian hemlock	11	Poor	Low
390	Sweetgum	20	Poor	Low
456	Black birch	11	Poor	Low
537	Sassafras	14	Poor	Low
539	Black locust	19	Poor	Low
541	Sycamore maple	14	Poor	Low
542	Honey locust	17	Poor	Low
670	Sycamore maple	25	Poor	Low
671	Sycamore maple	21	Poor	Low
672	Sycamore maple	13	Poor	Low
693	Norway maple	16	Fair	Low
2001	Sycamore maple	9	Poor	Low
2004	White ash	12	Fair	Low
2005	Horse chestnut	16	Poor	Low
2006	Horse chestnut	25	Poor	Low
2007	Norway maple	10	Fair	Low
2008	Sycamore maple	10	Poor	Low
2009	Sycamore maple	9	Poor	Low
2011	Sycamore maple	13	Poor	Low
2012	Norway maple	11	Poor	Low
2014	Norway maple	12	Good	Low
2019	Horse chestnut	15	Poor	Low
2020	Red maple	16	Poor	Low
2022	Sycamore maple	9	Poor	Low
2023	Sycamore maple	11	Poor	Low
2026	Sycamore maple	11	Poor	Low
2028	Norway maple	5	Poor	Low
2029	Sycamore maple	12	Poor	Low
2029	Sycamore maple	11	Poor	Low
2030	Red maple	16	Poor	Low
2036	Norway maple	16	Poor	Low
2046	Black locust	10	Poor	Low
2049	Sycamore maple	15	Poor	Low

Tag #	Common Name	DBH	Condition	Priority
2050	Sycamore maple	19	Poor	Low
2051	Sycamore maple	15	Poor	Low
2052	Sycamore maple	18	Poor	Low
2053	Black locust	22	Poor	Low
2057	Canadian hemlock	8	Dead	Low
2060	Norway maple	15	Fair	Low
2061	Norway maple	7	Fair	Low

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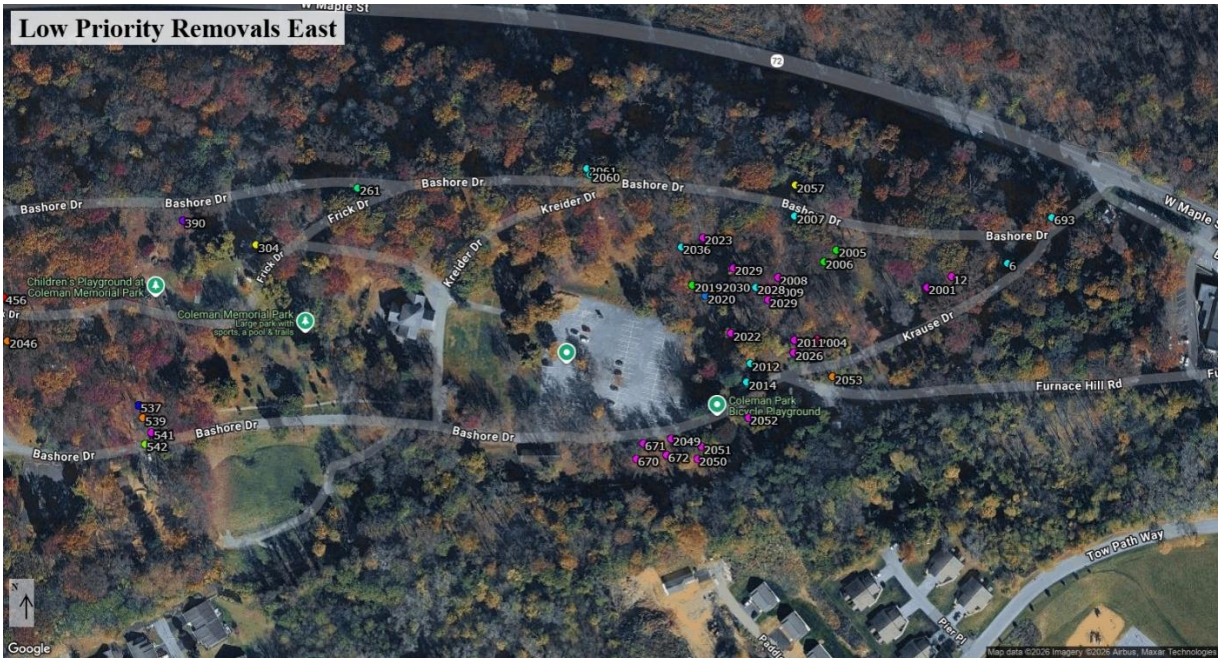
Image 8 shows the location of Lower Priority tree removals based on poor condition and risk to the public, and property.

Image 9 shows the location of Medium Priority tree removals based on poor condition and risk to the public, and property.



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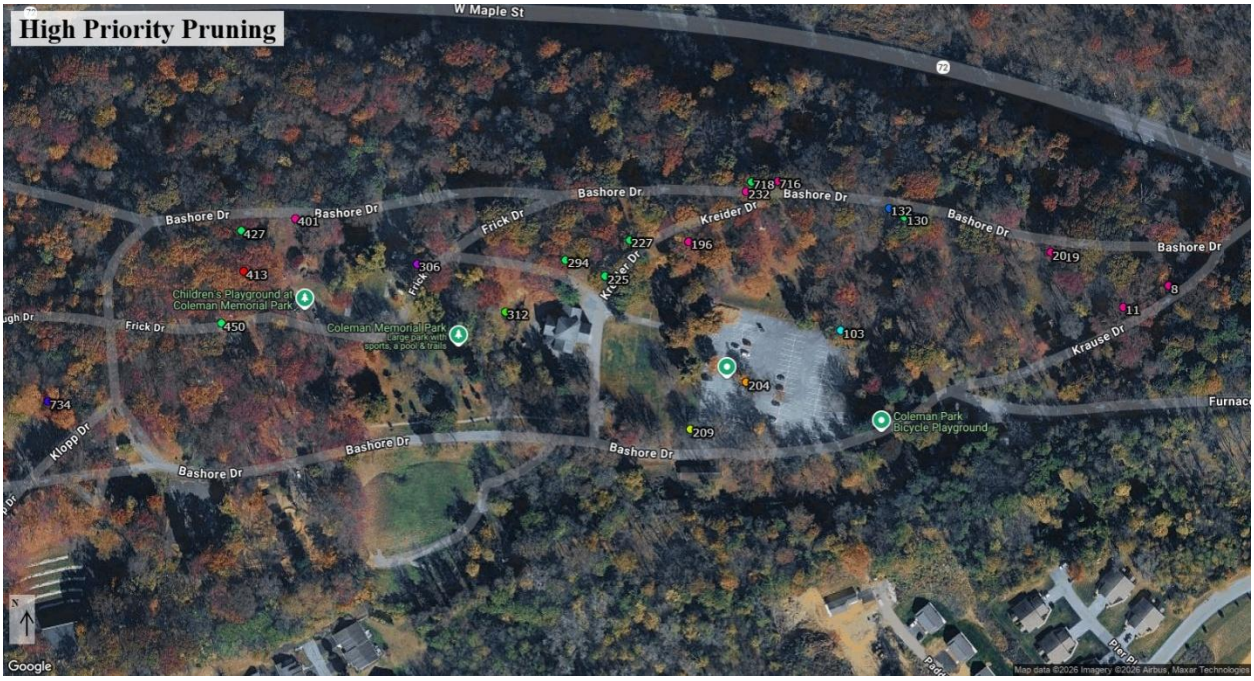
Appendix 5: High Priority Tree Pruning

Table 5 lists High Priority tree pruning based on conditions observed during inspection. Deadwood under Tree Maintenance refers to pruning of deadwood 2 inches in diameter and larger. This is a primary risk mitigation measure.

Tag #	Common Name	DBH	Condition	Priority	Tree Maintenance
8	White oak	46	Fair	High	Deadwood
11	White oak	41	Fair	High	Deadwood
19	Northern red oak	48	Fair	High	Deadwood
20	White oak	34	Fair	High	Deadwood
103	Norway maple	35	Fair	High	Crown Reduce, Deadwood, Reduce end weight
130	Northern red oak	32	Fair	High	Deadwood or remove
132	Red maple	23	Fair	High	Deadwood
196	White oak	35	Fair	High	Deadwood
204	European Ash	40	Fair	High	Deadwood
209	Horse chestnut	34	Fair	High	Deadwood
225	Northern red oak	60	Fair	High	Deadwood
227	Northern red oak	36	Fair	High	Deadwood
232	White oak	41	Good	High	Deadwood
294	Northern red oak	28	Fair	High	Deadwood
306	Sycamore maple	14	Fair	High	Deadwood
312	Northern catalpa	28	Fair	High	Deadwood
401	White oak	40	Good	High	Deadwood
413	Black oak	22	Fair	High	Deadwood
427	Northern red oak	19	Fair	High	Deadwood
450	Northern red oak	28	Fair	High	Deadwood
716	White oak	34	Good	High	Deadwood
718	Northern red oak	34	Fair	High	Deadwood
734	Royal paulownia	32	Fair	High	Deadwood

Image 10 shows the location of High Priority tree pruning.



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Appendix 6: Medium Priority Tree Pruning

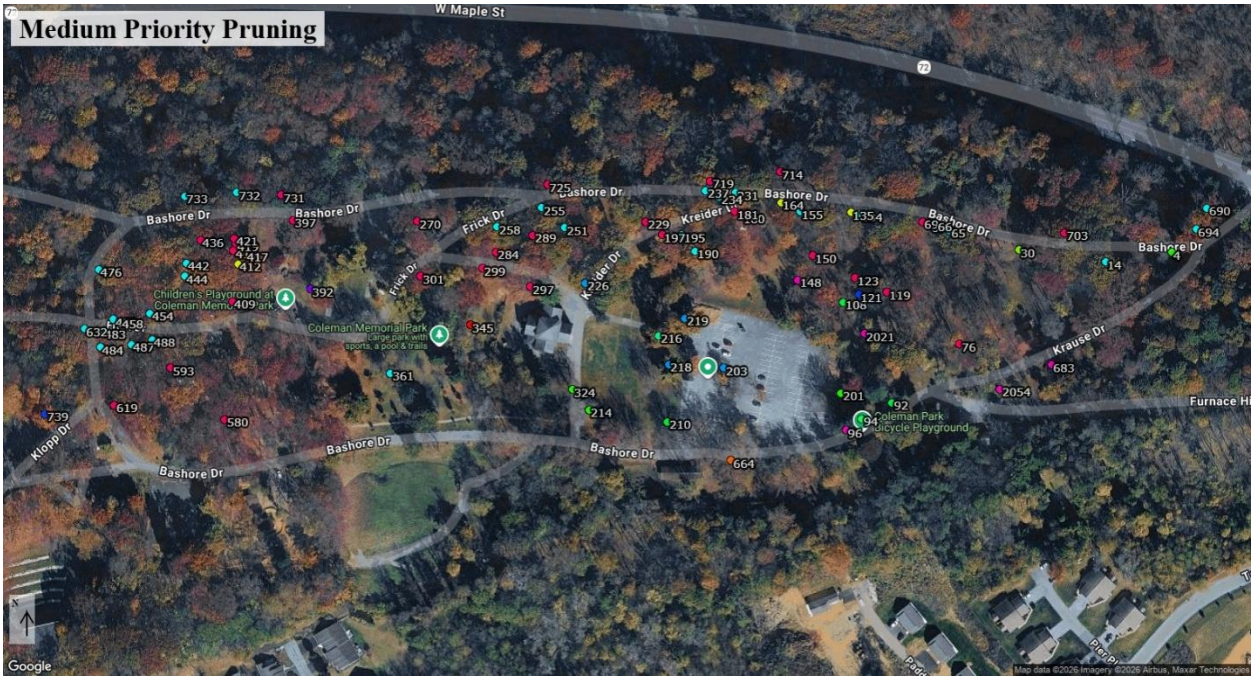
Table 6 lists Medium Priority tree pruning based on conditions observed during inspection. Deadwood under Tree Maintenance refers to pruning of deadwood 2 inches in diameter and larger. This is a primary risk mitigation measure.

Tag #	Common Name	DBH	Condition	Priority	Tree Maintenance
4	Honey locust	27	Poor	Medium	Deadwood
14	Northern red oak	46	Fair	Medium	Deadwood
30	Chinese chestnut	16	Good	Medium	Deadwood
65	Northern red oak	50	Good	Medium	Deadwood
66	Northern red oak	23	Fair	Medium	Deadwood
67	White oak	34	Good	Medium	Deadwood
69	White oak	31	Good	Medium	Deadwood
76	White oak	33	Good	Medium	Deadwood
92	Horse chestnut	30	Fair	Medium	Deadwood
94	Horse chestnut	14	Poor	Medium	Deadwood
96	Sycamore maple	15.56	Poor	Medium	Deadwood
108	Horse chestnut	17	Fair	Medium	Deadwood
119	White oak	43	Fair	Medium	Deadwood, Reduce end weight
121	Red maple	22	Poor	Medium	Deadwood or remove
123	White oak	29	Fair	Medium	Deadwood
134	Northern red oak	27	Fair	Medium	Deadwood
135	Black tupelo	28	Fair	Medium	Deadwood
148	Sycamore maple	26.42	Poor	Medium	Deadwood
150	White oak	40	Fair	Medium	Deadwood
155	Northern red oak	37	Poor	Medium	Deadwood
164	Black tupelo	27	Good	Medium	Deadwood
180	White oak	31	Fair	Medium	Deadwood
181	White oak	32	Good	Medium	Deadwood
190	Northern red oak	41	Good	Medium	Deadwood
195	Northern red oak	17	Fair	Medium	Deadwood
197	White oak	27	Fair	Medium	Deadwood
201	Honey locust	19	Fair	Medium	Deadwood
203	Norway maple	19	Fair	Medium	Deadwood
210	Horse chestnut	25	Fair	Medium	Deadwood
214	Honey locust	34	Fair	Medium	Deadwood
216	Littleleaf linden	35	Fair	Medium	Deadwood
218	Norway maple	35	Fair	Medium	Deadwood
219	Norway maple	38	Fair	Medium	Deadwood, Reduce end weight
226	Norway maple	25	Fair	Medium	Deadwood

Tag #	Common Name	DBH	Condition	Priority	Tree Maintenance
229	White oak	27	Fair	Medium	Deadwood
231	Northern red oak	30	Fair	Medium	Deadwood
234	Northern red oak	25	Poor	Medium	Deadwood
237	Northern red oak	24	Poor	Medium	Deadwood
251	Northern red oak	27	Fair	Medium	Deadwood
255	Northern red oak	33	Fair	Medium	Deadwood
258	Northern red oak	34	Fair	Medium	Deadwood
270	White oak	26	Fair	Medium	Deadwood
284	White oak	41	Good	Medium	Deadwood
289	White oak	16	Fair	Medium	Deadwood
297	White oak	33	Good	Medium	Deadwood
299	White oak	30	Fair	Medium	Deadwood
301	White oak	50	Fair	Medium	Deadwood
324	Honey locust	27	Poor	Medium	Deadwood
345	American elm	48	Fair	Medium	Deadwood
361	Northern red oak	36	Poor	Medium	Deadwood
392	Silver maple	38	Fair	Medium	Deadwood, reduce end weight or remove
397	White oak	34	Good	Medium	Deadwood
409	White oak	22	Fair	Medium	Deadwood
412	Black tupelo	15	Fair	Medium	Deadwood
415	White oak	28	Good	Medium	Deadwood
417	Black oak	38	Fair	Medium	Deadwood
419	White oak	22	Fair	Medium	Deadwood
421	White oak	16	Fair	Medium	Deadwood
436	White oak	22	Good	Medium	Deadwood
442	Northern red oak	25	Good	Medium	Deadwood
444	Northern red oak	21	Fair	Medium	Deadwood
454	Northern red oak	24	Fair	Medium	Deadwood
458	Northern red oak	20	Fair	Medium	Deadwood
459	Northern red oak	23	Fair	Medium	Deadwood
476	Northern red oak	25	Good	Medium	Deadwood
483	Northern red oak	28	Fair	Medium	Deadwood
484	Northern red oak	29	Good	Medium	Deadwood
487	Northern red oak	24	Good	Medium	Deadwood
488	Northern red oak	32	Good	Medium	Deadwood
580	White oak	39	Good	Medium	Deadwood
593	White oak	27	Good	Medium	Deadwood
619	White oak	32	Good	Medium	Deadwood

Tag #	Common Name	DBH	Condition	Priority	Tree Maintenance
632	Northern red oak	27	Fair	Medium	Deadwood
664	American sycamore	33	Good	Medium	Deadwood
683	Sycamore maple	19	Fair	Medium	Deadwood
690	Northern red oak	45	Fair	Medium	Deadwood
694	Northern red oak	25	Fair	Medium	Deadwood
703	White oak	33	Good	Medium	Deadwood
714	White oak	37	Good	Medium	Deadwood
719	White oak	33	Fair	Medium	Deadwood
725	White oak	33	Fair	Medium	Deadwood
731	White oak	28	Fair	Medium	Deadwood
732	Northern red oak	31	Fair	Medium	Deadwood
733	Northern red oak	35	Good	Medium	Deadwood
736	Royal paulownia	36	Fair	Medium	Crown Reduce, Deadwood, Reduce end weight
737	Sweetgum	35	Good	Medium	Deadwood, Reduce end weight
739	Red maple	31	Fair	Medium	Crown Reduce, Deadwood, reduce end weight and Install Cable
2021	Sycamore maple	16	Poor	Medium	Deadwood
2054	Sycamore maple	19	Poor	Medium	Deadwood or remove
200	Norway maple	32	Fair	Medium	Deadwood, Reduce end weight

Image 11 shows the location of Medium Priority tree pruning.



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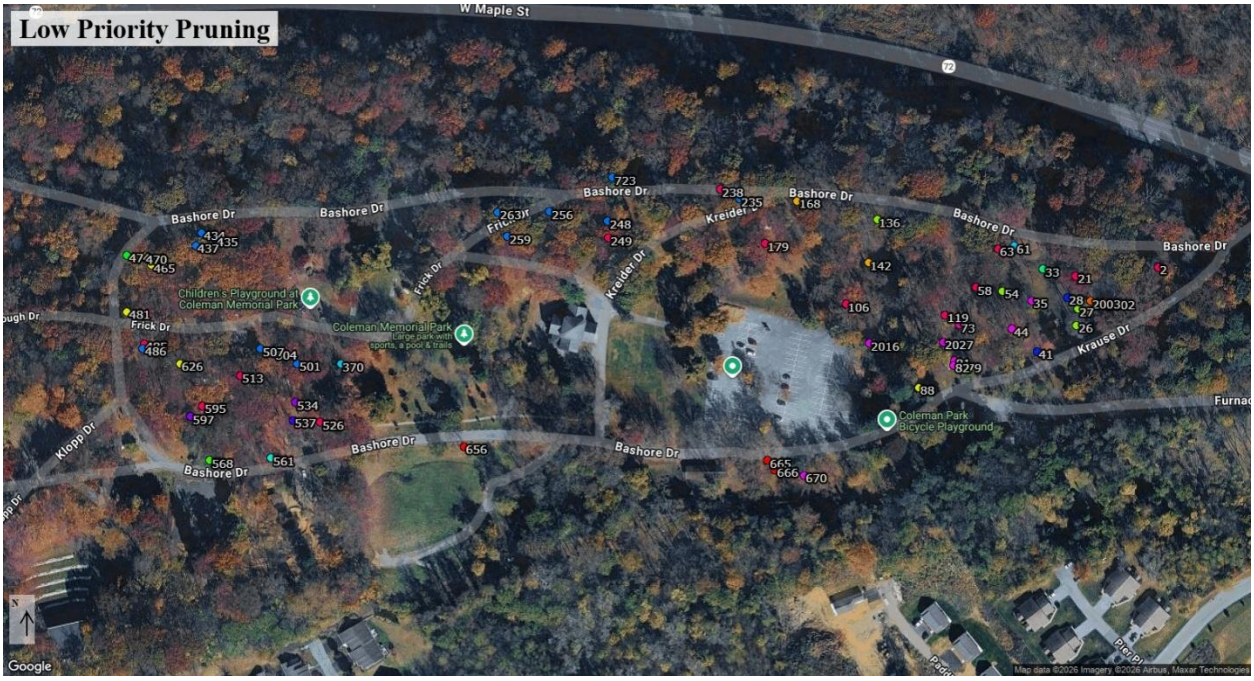
Appendix 7: Lower Priority Tree Pruning

Table 7 lists Lower Priority tree pruning based on conditions observed during inspection. Deadwood under Tree Maintenance refers to pruning of deadwood 2 inches in diameter and larger. This is a primary risk mitigation measure.

Tag #	Common Name	DBH	Condition	Priority	Tree Maintenance
2	White oak	31	Fair	Low	Deadwood
21	White oak	29	Good	Low	Deadwood
26	Black tupelo	21	Good	Low	Deadwood
27	Black tupelo	22	Good	Low	Deadwood
28	Red maple	16	Poor	Low	Deadwood
33	Chinese chestnut	20	Good	Low	Deadwood
35	Sycamore maple	17	Good	Low	Deadwood
41	Red maple	26	Good	Low	Deadwood
44	Sycamore maple	17	Poor	Low	Deadwood
54	Black tupelo	26	Fair	Low	Deadwood
58	White oak	28	Good	Low	Deadwood
61	Horse chestnut	17	Fair	Low	Deadwood
63	White oak	37	Good	Low	Deadwood
73	White ash	15	Fair	Low	Deadwood
79	Sycamore maple	17	Poor	Low	Deadwood
81	Sycamore maple	22	Fair	Low	Deadwood
82	Sycamore maple	18	Poor	Low	Deadwood
88	Black oak	29	Poor	Low	Deadwood
106	White oak	31	Good	Low	Deadwood
119	White oak	43	Fair	Low	Deadwood
136	Black tupelo	21	Fair	Low	Deadwood
142	Black locust	9	Fair	Low	Deadwood
168	Black locust	15	Fair	Low	Deadwood
179	White oak	47	Good	Low	Deadwood
235	Northern red oak	29	Good	Low	Deadwood
238	White oak	34	Good	Low	Deadwood
248	Northern red oak	37	Fair	Low	Deadwood
249	White oak	27	Good	Low	Deadwood
256	Northern red oak	29	Fair	Low	Deadwood
259	Northern red oak	28	Poor	Low	Deadwood
263	Northern red oak	42	Fair	Low	Deadwood
347	Norway spruce	26.25	Good	Low	Install Cable
370	Horse chestnut	35	Fair	Low	Deadwood
434	Northern red oak	27	Fair	Low	Deadwood
435	Northern red oak	26	Fair	Low	Deadwood

Tag #	Common Name	DBH	Condition	Priority	Tree Maintenance
437	Northern red oak	22	Fair	Low	Deadwood
465	Black oak	29	Good	Low	Deadwood
470	Black oak	19	Fair	Low	Deadwood
474	Chestnut oak	24	Good	Low	Deadwood
481	Black oak	21	Good	Low	Deadwood
485	White oak	23	Fair	Low	Deadwood
486	Northern red oak	22	Good	Low	Deadwood
501	Northern red oak	35	Fair	Low	Deadwood
504	Northern red oak	27	Fair	Low	Deadwood
507	Northern red oak	24	Good	Low	Deadwood
513	White oak	13	Fair	Low	Deadwood
526	White oak	22	Good	Low	Deadwood
534	Sweetgum	24	Good	Low	Deadwood
537	Sassafras	14	Poor	Low	Deadwood, reduce end weight or remove
561	Honey locust	23	Fair	Low	Deadwood
568	Canadian hemlock	20.62	Fair	Low	Deadwood
595	White oak	28	Good	Low	Deadwood
597	Sweetgum	23	Fair	Low	Deadwood
626	Black oak	29	Good	Low	Deadwood
656	American sycamore	27	Fair	Low	Deadwood
665	American sycamore	24	Good	Low	Deadwood
666	American sycamore	27	Good	Low	Deadwood
670	Sycamore maple	25	Poor	Low	Deadwood or remove
723	Northern red oak	36	Good	Low	Deadwood
2002	Black cherry	23	Fair	Low	Deadwood
2003	Black cherry	18	Fair	Low	Deadwood
2016	Sycamore maple	16	Poor	Low	Deadwood
2027	Sycamore maple	12	Poor	Low	Deadwood

Image 12 shows the location of Lower Priority tree pruning.



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Appendix 8: Trees Recommended for cabling

Table 8: The table below list trees recommended for a cabling to support compromised stem unions.

Tag #	Common Name	DBH	Condition	Priority	Cable/ bracing
347	Norway spruce	26.25	Good	Low	Cable
739	Red maple	31	Fair	Medium	Cable

Image 13 shows the location of trees recommended for cabling.

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Appendix 9: Plant Health Care Recommendations

Table 9 lists key trees recommended for treatment or monitoring to manage key pest issues.

Tag #	Common Name	DBH	Condition	Tree Work-PHC
345	American elm	48	Fair	Dutch Elm Disease
651	Bee Bee Tree	17.78	Fair	Spotted Lanternfly
354	Canadian hemlock	20	Fair	Adelgid and scale
499	Canadian hemlock	15	Fair	Adelgid and scale
500	Canadian hemlock	11	Fair	Adelgid and scale
520	Canadian hemlock	13	Fair	Adelgid and scale
568	Canadian hemlock	20.62	Fair	Adelgid and scale
602	Canadian hemlock	21.21	Fair	Adelgid and scale
257	European beech	22	Fair	BLD Advanced
367	European beech	32	Fair	BLD Minor
368	European beech	31.11	Fair	BLD Minor
372	European beech	10	Good	BLD Not observed
675	European beech	35	Good	BLD Not observed
468	American beech	27	Good	BLD Not observed
375	Green ash	27.02	Fair	Emerald Ash Borer
663	Green ash	19	Good	Emerald Ash Borer
73	White ash	15	Fair	Emerald Ash Borer
83	White ash	17	Fair	Emerald Ash Borer
250	White ash	16	Good	Emerald Ash Borer
699	White ash	7	Good	Emerald Ash Borer

Image 13 shows the location of the (1) American elm that is susceptible to Dutch Elm Disease.

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Image 14 shows the location of the (1) Bee Bee Tree that is susceptible to Spotted Lanternfly predation.

Image 15 shows the location of the several Canadian Hemlock with adelgid and scale infestations.

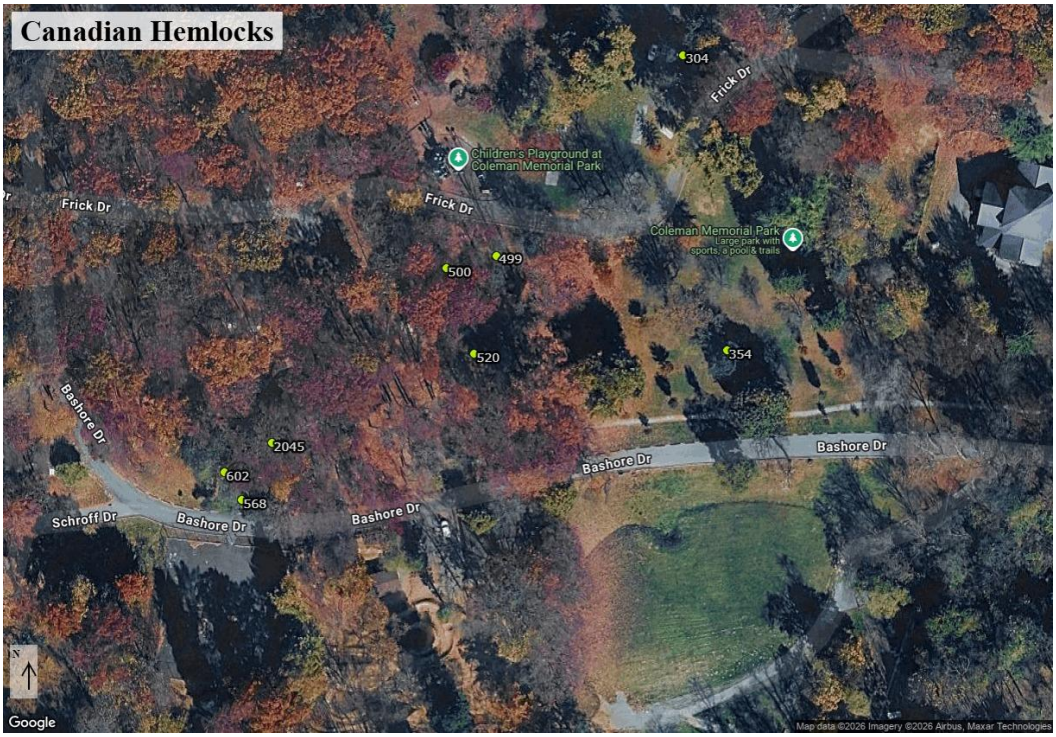

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Image 16 shows the location of the several American and European beech trees . Some of these trees have Beech Leaf Disease.

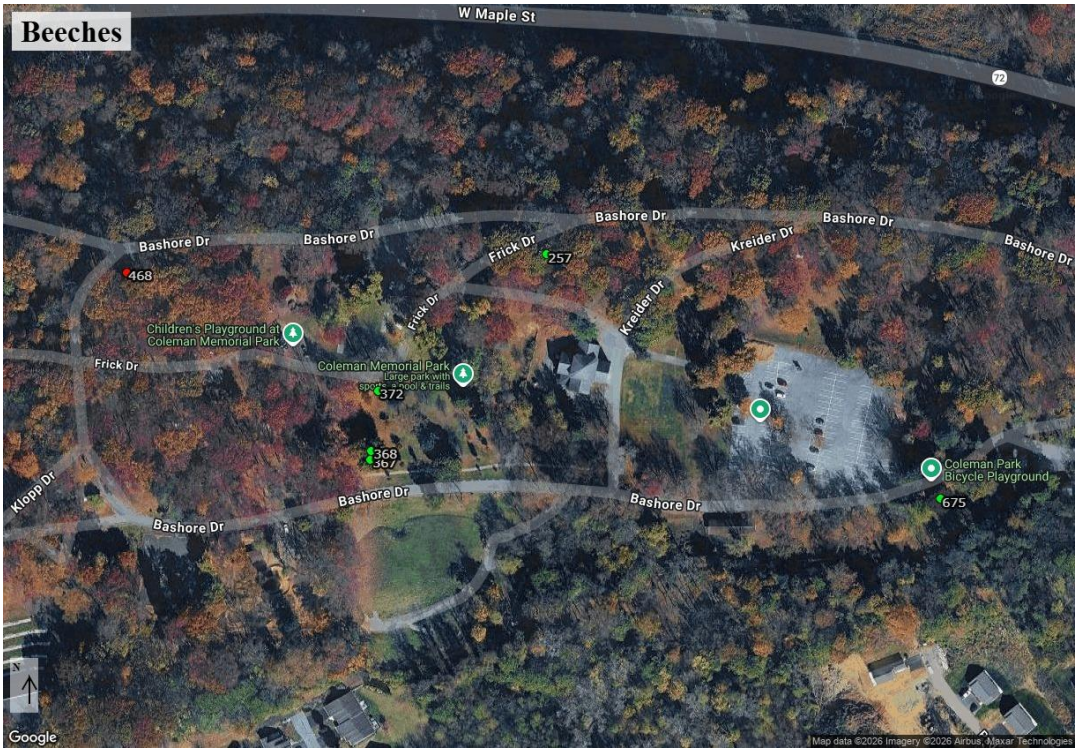

Image 17 shows the location of the several White and Green Ash trees infested with Emerald Ash Borer..

Good's Tree and Lawn Care.
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