

**Hebron, NH**

# Tree Inventory

# Tree Inventory

## Hebron Town Common



June 6, 2016

To Whom It May Concern, this document was made as a tool, for the people of the town of Hebron. The document consists of a detailed tree analysis of each tree within the Hebron Town Common. Along with the tree analysis comes a map of the town common that locates each tree within the common. The tree analysis suggests the removal and replacement of some of the older trees and keeping and maintaining the younger trees. This site is listed as being on the National Register of Historic Sites we have endeavored to maintain the character and species of trees to keep within the parameters of its historical significance. We are recommending that as the interior trees die and/or are replaced that the new plantings be placed closer to the edges of the common to allow for more uninhibited open space on the interior of the common. To accomplish this we are recommending that a five (5) year plan be implemented and the replacement trees be no smaller than four (4) inches in caliper size to obtain an instant effect on the site. The list below is a suggested implantation five year plan starting with the trees that appear to be in the most serious decline:

**Year 1:** Tree #7, #12 and #14

**Year 2:** Tree #10 and #15

**Year 3:** Tree #11

**Year 4:** Tree #23 and #24

**Year 5:** Tree #28 and #29

Terrain Planning and Design recommends that the town hire a professional licensed Arborist , such as Bartlett Tree Service to establish and carryout an annual program of tree maintenance and fertilization.

**Note:** Until it is determined what the use of the parcel of land on the west side of West Shore Road is to be used for, Terrain Planning and Design recommends that little expense be made on trees #27 through #30. The only tree that could be considered for some tree maintenance is the 36"inch Sugar Maple and that work should only consist of clearing the secondary growth from around the tree that has grown around it.

Thank you for your time and for choosing Terrain Planning and Design.

- The Terrain Team



**Tree #1**  
**Flowering Crab Species**  
**Malus**



**1. Condition - Good**

**2. Save or Remove - Save**

**a. If saved what is the treatment plan / pruning needs?**

- a. a. The tree needs to be root fertilized and the crown pruned. The interior branches need to be removed. Crossing branches need to be removed, proper removal of branch stubs from previous pruning should be removed. The tree should be pruned on an annual basis as if it was a standard apple tree.



**Tree #2**  
Flowering Crab Species  
Malus 8in.cal.



**1. Condition - Good**

**2. Save or Remove - Save**

**a. If saved what is the treatment plan / pruning needs?**

- a. Root fertilize, prune out crossing branches, remove any interior branches and prune off stubs that remain from a previous pruning of the tree.





**Tree #3**  
Sugar Maple  
*Acer sachharum* 8in.cal.



**1. Condition** - Excellent

**2. Save or Remove** - Save

**a. If saved what is the treatment plan / pruning needs?**

- a. Root fertilize this tree, soil aeration the soil is compact and is not allowing proper nutrients to the root area of the tree. Prune out any interior branches in the fall. Remove any branches that are lower than six (6) feet from the ground.





**Tree #4**  
Red Oak  
*Quercus rubra* 18in.cal.



**1. Condition - Excellent**

**2. Save or Remove - Save**

**a. If saved what is the treatment plan / pruning needs?**

a. Properly prune off all stubs of branches from a previous pruning.

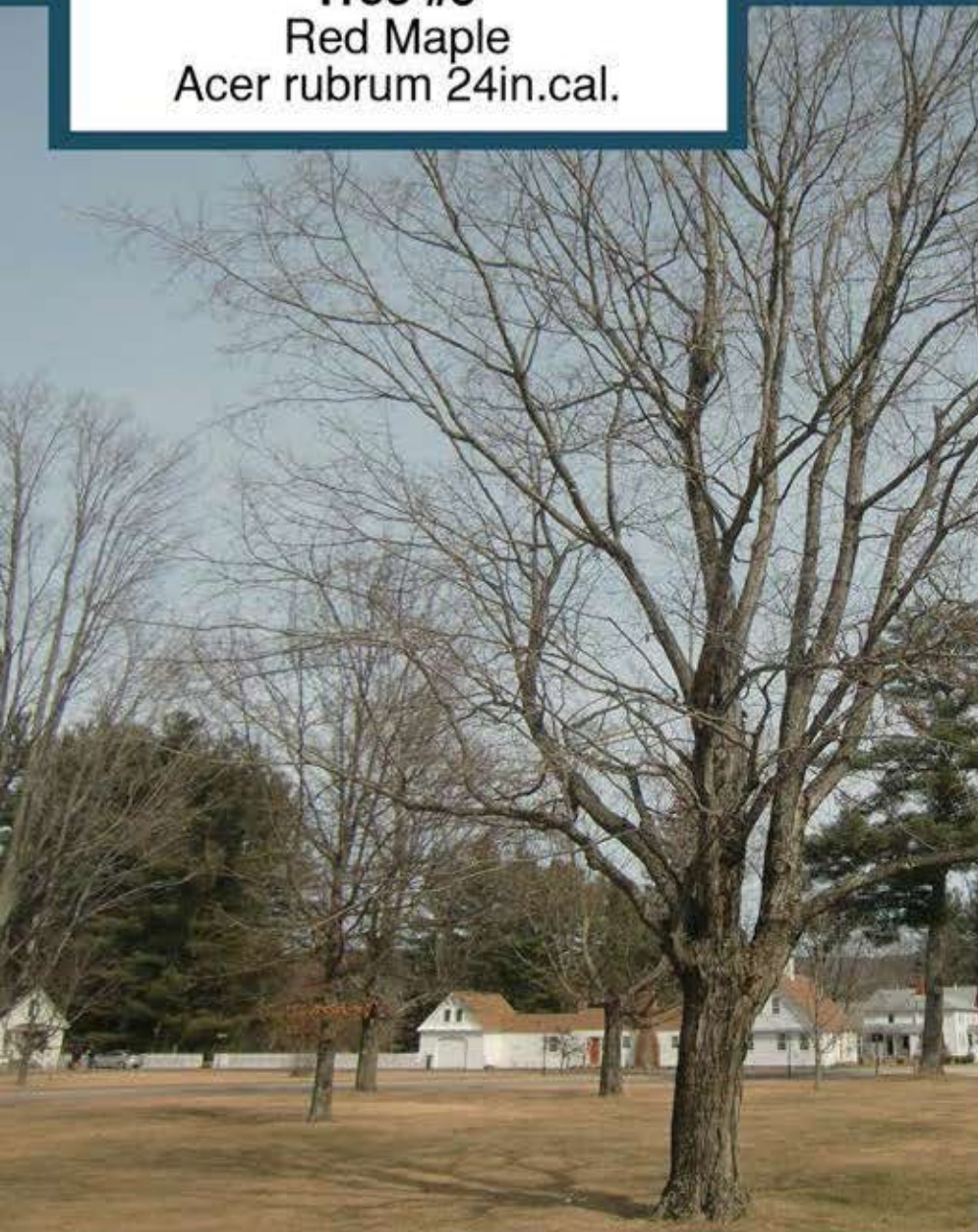
The crown of the tree should be thinned by a licensed arborist.

Eventually the two primary stems of the tree should be cabled.

The "V" crotch of the tree is a weak crotch and over time as the tree increases in size, there is concern that the tree will split at this weak spot thus the recommendation of cabling the branches. As with all the trees on the common the soil is compacted to the point that proper nutrients are not getting to the roots. Aeration and root fertilization is recommended.



**Tree #5**  
**Red Maple**  
**Acer rubrum 24in.cal.**



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**1. Condition** - Good condition there is some decay just starting under the 18 in side branch

**2. Save or Remove** - Save

**a. If saved what is the treatment plan / pruning needs?**

A licensed arborist should be hired to prune out the dead wood in the tree.

Aerate and fertilized the root zone of the tree.

The large 18in side stem of the tree should be cabled to the main stem of the tree to keep it from breaking off as a result of heavy snows. (bottom right picture) (Fungus top right picture).

**b. If cut, what is a good replacement and where should it go?**

**b. Recommendation:** At the time the tree is removed it should be replaced with a Burgundy Belle Red Maple Acer rubrum 'Burgundy Belle', this tree has dark green leaves during the summer turning to a red-burgundy in the fall and the fall foliage remains on the tree for a much longer period of time. The replacement tree should be planted closer to the parking lot.



**Tree #6**  
Pin Oak  
*Quercus palustris* 18in. cal.



**1. Condition - Good**

**2. Save or Remove - Save**

**a. If saved what is the treatment plan / pruning needs?**

- a.** Prune lower sprout branches from the trunk of the tree. Hire a professional arborist to thin the crown of the tree and remove any crossing branches. The stub branches from a previous pruning should be removed. Root fertilize and aerate the root zone of the tree





**Tree #7**  
Sugar Maple  
*Acer saccharum* 24in. cal.



**1. Condition - Poor**

**2. Save or Remove - Remove**

**a. If cut, what is a good replacement and where should it go**

- a.** This tree is in very poor condition. It has the potential of lasting several years but the leader has been removed and the side branches are taking over. The side branches at the moment are secure but potentially over a period of time, under the right conditions, will break off. This tree should be replaced with a Legacy Sugar Maple *Acer saccharum* 'Legacy' closer to the parking lot and in line with the existing White Pine and Tree #5.





**Tree #8**  
Sugar Maple  
*Acer saccharum* 8 in. cal.



**1. Condition - Good**

**2. Save or Remove - Save**

**a. If saved what is the treatment plan / pruning needs?**

- a.** There is some dead wood in this young tree. This is somewhat unusual for a tree this young. Some minor pruning of dead wood is needed. At some point remove the branches that are lower than six (6) feet above the ground. Root fertilize the tree and aerate the soil in the root zone of the tree





**Tree #9**  
Eastern White Pine  
*Pinus strobus* 36 in. cal.



terrain

**1. Condition** - For a White Pine this size it appears to be in good condition.

**2. Save or Remove** - Save until a licensed arborist can take a core sample to determine the soundness structure of the wood.

**a. If saved what is the treatment plan / pruning needs?**

**a.** Many times Eastern White Pines this size have interior rot that makes the interior structure of the tree weak. This tree could last many more years or it could come down in the next wind storm or heavy snow. The structure of the tree is naturally weak, large branches have a tendency to break off and fall. If this tree was to come down it would most likely come down in the direction of the small Cape Style home next to "Hebron Academy". The preference is to professionally remove the tree to control the direction of fall so as not to damage property. Replace the pine with a small planting of Flowering crabs that would include the proper location of the signage, 1 *Malus* 'Lancelot' 6'-8' tall and 2 *Malus* 'Prairiefire' 15-20' tall.



**Tree #10**  
 Sugar Maple  
*Acer sachharum* 20 in. cal.



**1. Conditon - Fair**

**2. Save or Remove - Remove**

**a. If cut, what is a good replacement and where should it go?**

- a.** This tree is not worth spending money on trying to salvage. It may stand for years but with the compacted soil, its life expectancy is not favorable. There is dead wood in the crown of the tree (bottm right picture) and major interior rot (top right picture) within the trunk of the tree. Recommend replacing this tree with a Lagacy Sugar Maple *Acer saccharum* 'Legacy' Heavy crown, dense foliage, heat resistant, great yellow-orange fall color. It should be planted 6' closer to North Shore Road.



**Tree #11**  
**Red Maple**  
**Acer rubrum 32 in. cal.**



**1. Condition - Good to Fair**

**2. Save or Remove - Save Temporarily**

**a. If saved what is the treatment plan / pruning needs?**

**a.** Have a licensed arborist cable the two main stems, and remove the 6" cal. side stem (bottom left picture) and remove any dead wood. Root fertilize and aerate the root area of the tree.

**b. If cut, what is a good replacement and where should it go?**

Eventually this tree will have to be replaced. It should be replaced with a Burgundy Belle Red Maple, *Acer rubrum* 'Burgundy Belle' and should be planted 6' closer to North Shore Road.





**Tree #12**  
Sugar Maple  
*Acer saccharum*



**1. Condition - Very Poor**

**2. Save or Remove - Remove (Number 1 Priority for removal)**

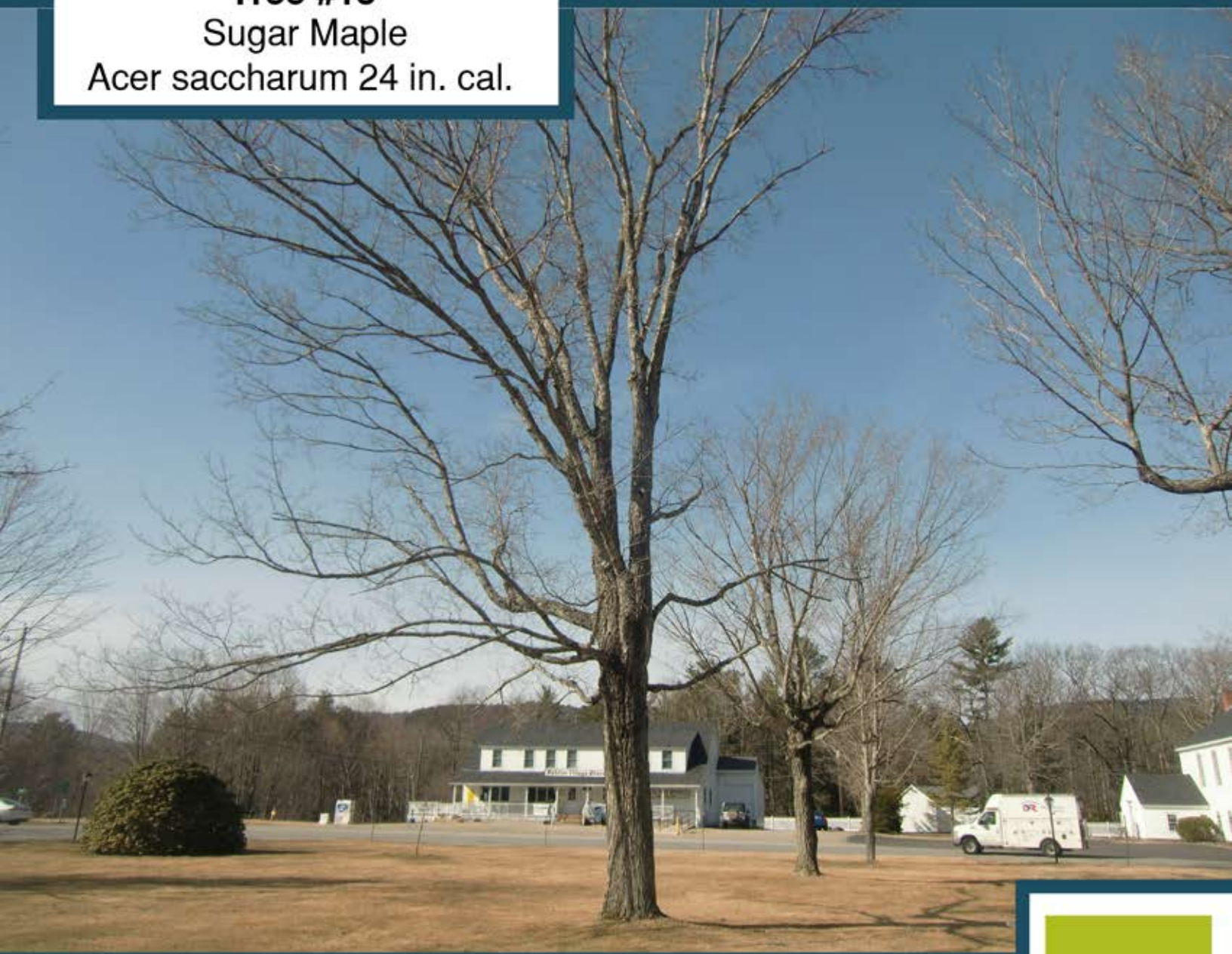
**a. If cut, what is a good replacement and where should it go?**

a. This tree should be first priority in removal. It is a hazardous tree, there is a very large branch that is almost rotted through (bottom right picture). It would take little for the branch to break off and fall to the ground or on someone passing by. It should be replaced with a Sugar Maple 'Legacy' *Acer saccharum* 'Legacy'





**Tree #13**  
Sugar Maple  
*Acer saccharum* 24 in. cal.



**1. Condition - Good**

**2. Save or Remove - Save**

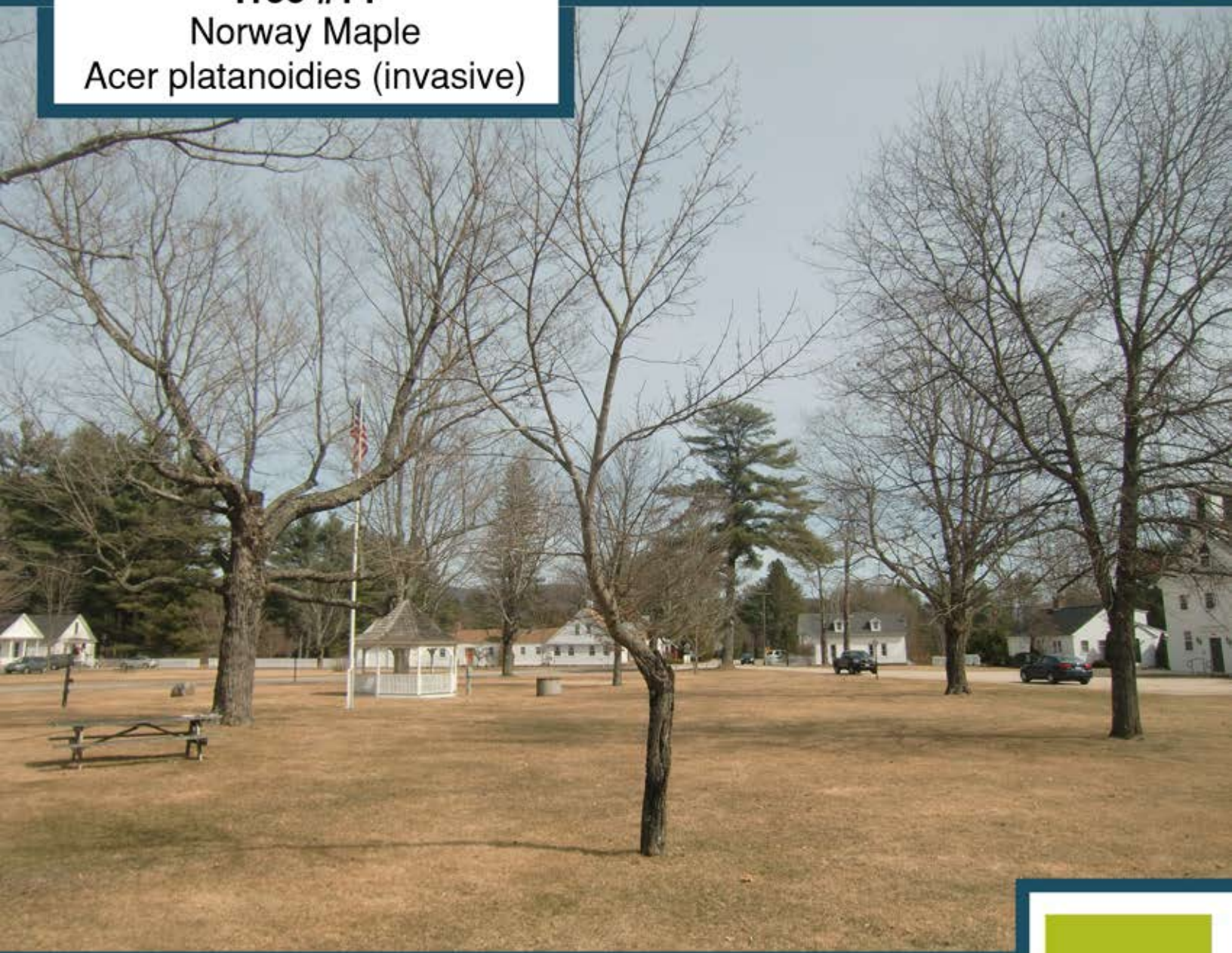
**a. If saved what is the treatment plan / pruning needs?**

a..Some small dead wood should be removed. Stubs from a previous pruning should be removed. Root fertilization and ground aeration around the root zone is needed.





**Tree #14**  
Norway Maple  
*Acer platanoides* (invasive)



**1. Condition - Poor**

**2. Save or Remove - Remove**

**a. If cut, what is a good replacement and where should it go?**

- a.** Replace with an *Acer rubrum* 'October Glory' October Glory Red Maple.  
It should be placed in line with Tree# 3 and Tree #18





**Tree #15**  
**Sugar Maple**  
**Acer saccharum 18 in. cal.**



**1. Condition - Fair**

**2. Save or Remove - Remove Eventually**

**a. If saved what is the treatment plan / pruning needs?**

**a.** The outer structure of the tree is intact but there is interior rot. This tree may survive several more years but should be on the near term removal list. For the moment some basic pruning is necessary. Remove the dead wood, there is a large branch with substantial decay that should be removed before it becomes a hazard.

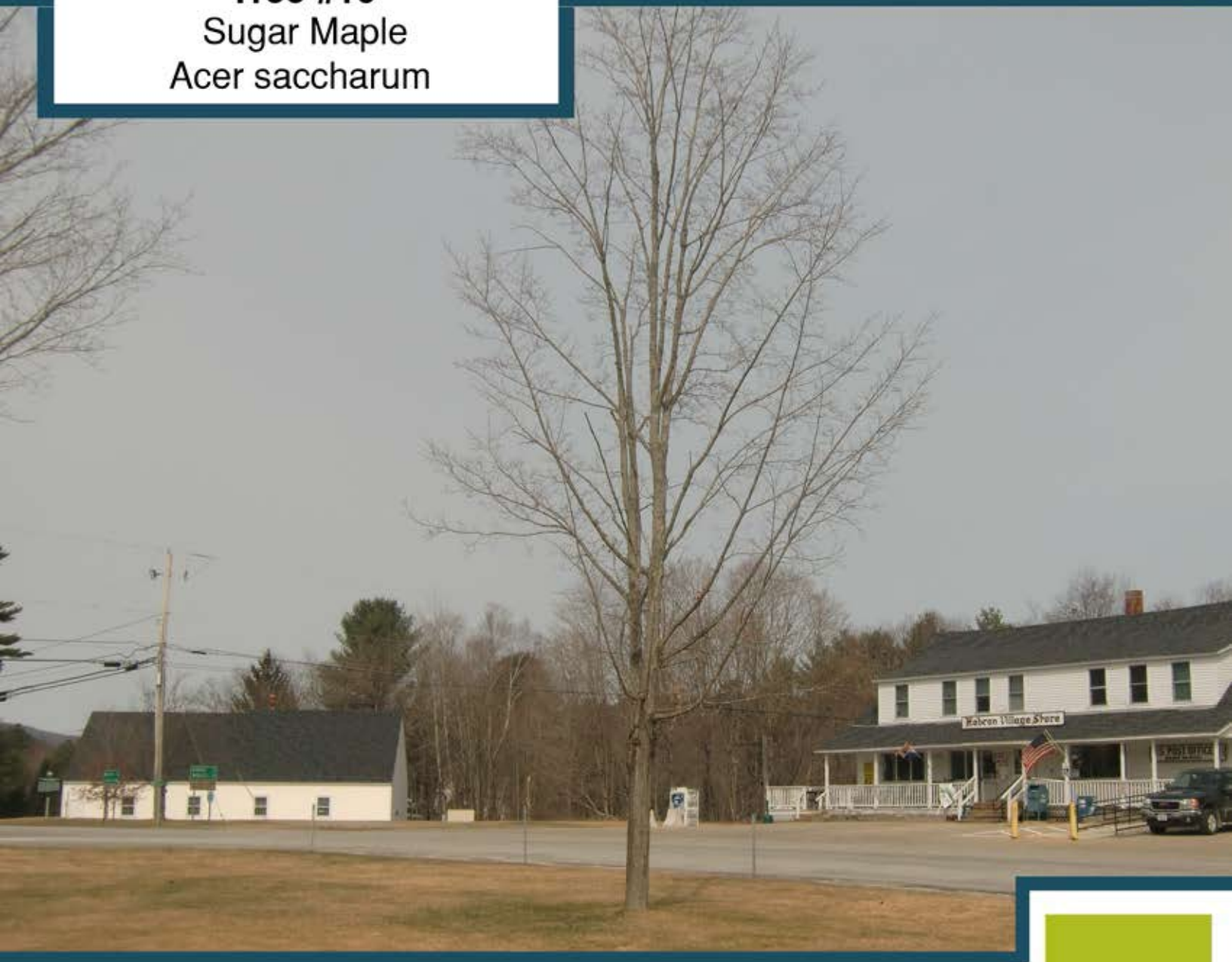
**b. If cut, what is a good replacement and where should it go.**

**b.** Replace this tree in the same or near the same location with Sugar Maple 'Legacy'  
Acer saccharum 'Legacy'





**Tree #16**  
Sugar Maple  
*Acer saccharum*



**1. Condition** - Excellent

**2. Save or Remove** - Save

**a. If saved what is the treatment plan / pruning needs?**

- a. As the tree matures the two main stems may have to be cabled to each other to prevent splitting in the future. Remove any crossing branches, and aerate the soil. Also root fertilize the root zone of the tree.

