

# **TREE PROTECTION AND EDGE MANAGEMENT PLAN**

**MCLAUGHLIN ROAD IMPROVEMENTS  
FROM BRISTOL ROAD WEST TO BRITANNIA ROAD WEST  
CITY OF MISSISSAUGA, REGION OF PEEL  
MUNICIPAL CLASS EA STUDY**

*prepared for:*



*prepared by:*



**SEPTEMBER 2015**

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*prepared by:*



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**SEPTEMBER 2015**

**LGL Project # TA8181**

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## 1.0 INTRODUCTION

An LGL Limited ISA Certified Arborist conducted an inventory of tree resources on October 26, 29, 31, and November 2, 2012. The tree survey was undertaken along McLaughlin Road from Britannia Road to Bristol Road. The investigation included an analysis of all trees 10 cm diameter at breast height (DBH) within the existing right-of-way and up to 10 m beyond where access permitted. An additional inventory was conducted on July 8, 2013 to document trees up to 5 m beyond the right-of-way within the Britannia Farm woodlot. Data collected during the tree inventory was used to determine the impacts to trees between Matheson Boulevard and Bristol Road West.

Information collected consists of species identification, DBH at 1.37 m above the ground, tree condition using a matrix of trunk integrity, canopy structure, and crown vigour, and general comments, where warranted. Trees were identified and affixed with aluminium numbered tags during this field investigation. Trees located outside of the right-of-way were not tagged; however, these trees were assessed and given an LGL ID number. Tree locations were captured using a TOPCON GSR-1 GPS unit and this information was translated for geographical information system (GIS) mapping.

## 2.0 SUMMARY OF RESULTS

A total of 1071 trees consisting of 29 species were examined and assessed within the right-of-way and 10 m beyond along McLaughlin Road between Matheson Boulevard and Bristol Road West. A total of 20 (69%) of the tree species assessed are considered native to Ontario and the remaining 9 species are considered non-native and introduced to Ontario. A list of the species identified during the tree inventory is presented in **Table 1**. A detailed summary of all living trees within the study area and the location of these trees on an air photo base are presented in **Appendix A**.

Overall, trees within the study area range in size from 5 to 77 cm DBH and are generally considered to be in good to fair condition with the exception of a few in poor condition. The beech trees found within the study area did not exhibit bark typical of the species which indicates that the trees may have beech bark disease.

The Britannia Farm woodlot on the east side of McLaughlin Road within the area of investigation contains 229 trees (28% of the total number of trees) within the study area. The majority of trees species (88%) identified within this portion of the study area are native to Ontario. The trees within the woodlot range in size from 10 to 77 cm DBH. A total of 40 trees identified within the study area measure greater than 50 cm DBH. The 40 trees include: one silver maple, five sugar maple, one white pine, one white oak, twenty red oak, one basswood, and one American elm. Large trees of this size are significant in the urban landscape and efforts should be made to retain these trees to the extent possible.

**TABLE 1.**  
**SUMMARY OF TREE SPECIES INVENTORIED**

Scientific Name	Common Name	Total Number of Trees
<i>Acer negundo</i>	Manitoba maple	1
<i>Acer platanoides</i>	Norway maple	57
<i>Acer rubrum</i>	red maple	33
<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	319
<i>Acer saccharinum</i>	silver maple	10
<i>Carya ovata</i>	shagbark hickory	3
<i>Catalpa</i> sp.	catalpa	1

**TABLE 1.**  
**SUMMARY OF TREE SPECIES INVENTORIED**

Scientific Name	Common Name	Total Number of Trees
<i>Fagus grandifolia</i>	American beech	27
<i>Fraxinus Americana</i>	white ash	7
<i>Fraxinus pennsylvanica</i>	red ash	51
<i>Gleditsia triacanthos</i>	honey locust	6
<i>Juglans nigra</i>	black walnut	15
<i>Malus</i> sp.	apple	1
<i>Ostrya virginiana</i>	ironwood	11
<i>Picea glauca</i>	white spruce	57
<i>Picea pungens</i>	blue spruce	64
<i>Pinus nigra</i>	Austrian pine	53
<i>Pinus strobus</i>	white pine	26
<i>Pinus sylvestris</i>	Scots pine	5
<i>Prunus avium</i>	sweet cherry	1
<i>Prunus serotina</i>	black cherry	7
<i>Prunus</i> sp.	cherry	7
<i>Quercus alba</i>	white oak	3
<i>Quercus macrocarpa</i>	bur oak	44
<i>Quercus rubra</i>	red oak	130
<i>Tilia Americana</i>	basswood	49
<i>Tilia cordata</i>	little-leaf linden	2
<i>Ulmus Americana</i>	American elm	53
<i>Ulmus pumila</i>	Siberian elm	28
<b>Total</b>		<b>1071</b>

### 3.0 EVALUATION OF ALTERNATIVES

An assessment of the potential number of trees to be impacted by the road improvements between Matheson Boulevard and Bristol Road West was undertaken. This assessment was based on the preliminary design grading limits for three potential options. Trees located within the grading limits and 1.5 m beyond were identified for removal. Change of grade and construction activity within 1.5 m of a tree will severely impact the integrity and root structure of the tree and it is likely the tree will survive post-construction consequently, as noted above trees within impact within 1.5 m of the trunk have been identified for removal. Trees that are located outside of the grading limits and 1.5 m beyond, but their tree protection zone falls within the grading limits, were considered impacted. Trees and tree protection zones falling outside of the grading limits were identified as retained and not impacted. The results of the assessment are mapped in **Appendix B** and **Appendix C**. A summary of tree characteristics, including size, health, tree protection zone, etc. is provided for each tree in **Appendix A**. **Table 2** provides a summary of tree impact by option and tree species. Refinements to the number of trees to be removed will be required with any changes to the proposed grading limits.

### **3.1 Option 2**

As noted in **Table 2**, a total of 542 trees will be removed with Option 2. Of the 542 trees identified for removal, 218 are located on the west side and 324 are located on the east side of McLaughlin Road. Trees identified for removal range in size from 10 to 77 cm DBH. Of the 542 trees, 509 are considered to be in good to fair condition and the remaining 30 are in poor condition.

As noted in **Table 2**, a total of 169 trees will be impacted (encroachment into TPZ) with Option 2. Of the 169 trees identified, 107 are located on the west side and 62 are located on the east side of McLaughlin Road. Trees that will be impacted range in size from 10 to 72 cm DBH. Of the 169 trees, 165 are considered to be in good to fair condition and the remaining eight are in poor condition.

### **3.2 Option 2a**

As noted in **Table 2**, a total of 413 trees will be removed with Option 2a. Of the 413 trees identified for removal, 157 are located on the west side of road and 256 are located on the east side of McLaughlin Road. Trees identified for removal range in size from 10 to 77 cm DBH. Of the 413 trees, 400 are considered to be in good to fair condition and the remaining ten are in poor condition.

As noted in **Table 2**, a total of 186 trees will be impacted (encroachment into TPZ) with Option 2a. Of the 186 trees, 103 are located on the west side and 83 are located on the east side of McLaughlin Road. Trees that will be impacted range in size from 10 to 72 cm DBH. Of the 186 trees, 182 are considered to be in good to fair condition and the remaining five are in poor condition.

### **3.3 Option 2b**

Option 2b is geometrically identical to option 2a, except the hydro lines will be buried underground. Burial of hydro lines is a mitigation measure that will likely further reduce the impacts to existing trees depending on the method used. However, the benefit of burying the hydro lines is difficult to determine at this level of analysis. As noted in **Section 2.2** a total of 413 trees will be removed as a result of the proposed road improvements. Of the 413 trees identified for removal, 157 are located on the west side and 256 are located on the east side of McLaughlin Road.

### **3.4 Noise Barrier Wall Replacement**

Of the 542 and 413 trees identified for removal in Option 2 and Option 2a/b respectively, 3 tree removals are associated with the replacement of the noise barrier wall on the west side of McLaughlin Road. Trees located within 0.5 m of the proposed noise barrier were considered to be severely impacted by the replacement and as such, were identified for removal. A more refined analysis of impacts associated with the noise wall replacement should be conducted at such time when the methods of removal and replacement of the wall are known. Methods to reduce impacts to trees will need to be reviewed during detail design.

**TABLE 2.**  
**SUMMARY OF TREE IMPACTS**

	Option 2						Option 2a/2b					
	West Side of Road			East Side of Road			West Side of Road			East Side of Road		
	Tree Removed	Tree Impacted	No Impact	Tree Removed	Tree Impacted	No Impact	Tree Removed	Tree Impacted	No Impact	Tree Removed	Tree Impacted	No Impact
catalpa			1							1		
Manitoba maple			1							1		
Norway maple	9	19	9	2	3	15	2	22	13	2		18
red maple	18	6	9				13	5	15			
silver maple	6	1	3				4	2	4			
sugar maple	24	23	60	141	25	46	17	16	74	99	43	70
shagbark hickory	1		1	1			1		1		1	
American beech	4			13		10	3		1	12	1	10
white ash	3	1		3			3	1		2		1
red ash	18	1	1	9	5	17	14	1	5	7	3	21
honey locust	1	5							6			
apple			1						1			
black walnut				13	1	1				8	4	3
ironwood		1		3	3	4		1		3		7
white spruce	14	14	26			3	8	10	36			3
blue spruce	17	11	32			4	9	15	36			4
Austrian pine	20	2	4		6	21	16	6	4		2	25
white pine	2	1	22	1			1	2	22	1		
Scots pine			5						5			

**TABLE 2.**  
**SUMMARY OF TREE IMPACTS**

	Option 2						Option 2a/2b					
	West Side of Road			East Side of Road			West Side of Road			East Side of Road		
	Tree Removed	Tree Impacted	No Impact	Tree Removed	Tree Impacted	No Impact	Tree Removed	Tree Impacted	No Impact	Tree Removed	Tree Impacted	No Impact
cherry	1		6				1		6			
sweet cherry				1						1		
black cherry		1		5	1				1	1	4	1
white oak	1			2			1			2		
bur oak	5	10	25	4			1	3	36	4		
red oak	26	10	20	58	13	3	20	16	20	47	21	6
basswood	15		1	28	2	3	12	2	2	27	1	5
little-leaf linden			1	1					1	1		
American elm	6		5	39	3		4	1	6	39	3	
Siberian elm	27	1					27		1			
<b>Total</b>	218	107	233	324	62	127	157	103	298	256	83	174
<b>Number of Trees 50 cm DBH and greater</b>	6	4	0	23	8	0	4	6	0	20	11	0

## 4.0 ASSESSMENT OF SURVIVABILITY OF IMPACTED TREES

Encroachment into the minimum tree protection zone (TPZ) has the potential to compromise the structural integrity and survivability of a tree. The survivability of a tree with encroachment into the minimum TPZ is dependent on a number of factors including: tree species, tree condition prior to construction, proximity of grading to the tree, extent of grading and soil compaction, drainage modifications and extent of works within the dripline.

An assessment of the survivability of impacted trees (encroachment into the minimum TPZ) was conducted. The analysis included the following information: species, DBH, size of TPZ, health status, and sensitivity of tree species. The sensitivity of tree species was ranked from tolerant, intermediate to sensitive. A summary of each species and their respective sensitivity is provided in **Table 3**. The TPZ was used to determine the ‘critical root zone’ for each impacted tree. Calculations were used to determine the amount of ‘critical root zone’ that will be removed for each impacted tree. The percent lost of ‘critical root zone,’ species sensitivity and current health of tree was used to determine the likelihood of the tree to survive post-construction. ‘Critical root zone’ loss of greater than 15 % for sensitive trees, 25 % for intermediate trees, and 35 % for tolerant trees were considered not likely to survive post-construction.

Hydrological impacts associated with the change in grade have not been considered at this time. It should be noted that trees beyond the grading limits and construction will likely suffer stress related to the change in hydrology throughout the study area. It is recommended that a hydrogeological survey be conducted in order to quantitatively assess the impacts to trees.

**TABLE 3.**  
**SUMMARY OF SPECIES SENSITIVITY**

Species	Sensitivity
American beech	sensitive
American elm	tolerant
apple	tolerant
Austrian pine	tolerant
basswood	intermediate
black cherry	intermediate
black walnut	sensitive
blue spruce	tolerant
bur oak	tolerant
catalpa	intermediate
cherry	intermediate
honey locust	tolerate
ironwood	sensitive
little-leaf linden	intermediate

**TABLE 3.**  
**SUMMARY OF SPECIES SENSITIVITY**

Species	Sensitivity
Norway maple	tolerant
red ash	tolerant
red maple	tolerant
red oak	tolerant
Scots pine	tolerant
shagbark hickory	intermediate
Siberian elm	tolerant
silver maple	tolerant
sugar maple	intermediate
white ash	tolerant
white oak	sensitive
white pine	tolerant
white spruce	tolerant

Source: USDA Forest Service Northeastern Area. Urban Tree Risk Management: A Community Guide to Program Design and Implementation. NA-TP-03-03.

#### **4.1 Result of Tree Survivability Assessment**

A summary of the tree survivability assessment is provided in **Appendix D**. A total of 169 trees were identified as impacted by Option 2 (i.e. encroachment into the TPZ will occur). Of the 169 trees, 3 trees (2 % of the total number of trees) are unlikely to survive post-construction. A total of 186 trees were identified as impacted by Option 2a/2b. Of the 186 trees, 8 trees (4 % of the total number of trees) are unlikely to survive post-construction.

### **5.0 RECOMMENDED ALTERNATIVE**

Following the evaluation, a technically preferred alternative was selected by the study team. Option 2b was selected and renamed to Option 3. The recommended design proposes widening of McLaughlin Road from Bristol Road to Britannia Road. The following summary provides an overview of the recommended design for the north section, McLaughlin Road between Matheson Boulevard West and Britannia Road West, and the south section, McLaughlin Road between Bristol Road West and Matheson Boulevard West.

#### North Section: Matheson Boulevard West to Britannia Road West

The section of McLaughlin Road between Matheson Boulevard West and Britannia Road West will be widened to 4 lanes with an urban cross-section and a centre turn lane. There will be 1.5 m on-road bike lanes and a sidewalk on both sides of McLaughlin Road.

#### South Section: Bristol Road West to Matheson Boulevard West

The section of McLaughlin Road between Bristol Road West and Matheson Boulevard West will be widened to four lanes with an urban cross-section, including a 4 m sharrow/curb lane. Given the sensitivity of the Britannia woodlot within this section of McLaughlin Road, the proposed right-of-way is much

narrower (approximately 23 m) than that proposed for the north section of McLaughlin Road (30 m). The centre turn lane that is proposed in the north section of McLaughlin Road is not proposed within this section. In addition, other measures have been incorporated into the design to minimize the impact of the road improvements on the natural heritage features within the study area:

- Narrow inner and auxiliary lane widths (3.1 to 3.35 m);
- 3.5 to 6.9 m pavement widening;
- 2.0 m curbside sidewalks, except no sidewalk on east side from Faith to Ceremonial;
- Relocate overhead hydro to underground;
- Reduced left turn lengths; and,
- Use retaining walls and monolithic sidewalk to reduce grading impacts.

As noted in **Section 3.3**, a total of 413 trees will be removed as a result of the proposed road improvements. Of the 413 trees identified for removal, 157 are located on the west side and 256 are located on the east side of McLaughlin Road. Implementation of the tree protection plan and edge management plan described in the following sections will ensure that impacts to the trees within the study area are mitigated to the extent possible.

## 6.0 TREE PROTECTION PLAN

The following recommendations are provided to ensure impacts to all retained trees are minimized. Designation of a Tree Protection Zone is imperative for the protection of trees (roots, trunks, branches) adjacent to construction works. The TPZ will restrict construction related machinery and activities from damaging trees identified for protection. Tree protection measures within the study area should follow the minimum tree protection limits developed by the City of Mississauga. This protection zone is the minimum distance from the tree trunk required for protection, and it varies depending on tree size. The minimum TPZ required by the City of Mississauga is provided in **Appendix A**.

The following recommendations are for those trees that will be preserved.

Protection recommendations:

- Tree protection barriers shall follow the City of Mississauga standard for frame and soild hoarding. On site needs will need to be assessed to determine whether the framed or solid hoarding should be used. A typical of the City of Mississauga's tree hoarding requirements is provided in **Appendix E**.
- Any excavations within the minimum TPZ shall be completed by hand under the direction of a ***qualified Arborist or Forester***.
- Tree protection hoarding/barrier shall be installed prior to the commencement of any construction activities;
- Heavy machinery shall not to be operated within the TPZ (including overhead swinging of machine arms);
- Construction materials, equipment, soil, construction waste or debris shall not be stored within the TPZ or dripline of the trees identified for protection;
- No movement or parking of vehicles, placement of equipment or pedestrian traffic shall be permitted within the TPZ;

- Low pressure hydro-vac excavation technology is recommended to expose roots where encroachment within the minimum TPZ is required;
- Prune any exposed roots with a diameter of less than 5 cm to promote regeneration and prevent infection. All roots greater than 5 cm in diameter should not be removed;
- Any tree removals, pruning or root cutting required is to be conducted by a ***qualified Arborist or Forester***;
- Apply a slow release deep root low nitrogen fertilizer to promote increased vigor;
- No signs or objects shall be displayed or affixed to any trees;
- Disposal of any liquids shall not occur within the TPZ; and,
- Should any additional, incidental or accidental tree injuries occur during construction, a ***qualified Arborist or Forester*** shall be consulted to determine whether additional mitigation measures should be employed; and,
- Tree clearing shall not be conducted during the Migratory Birds Convention Act (MBCA) breeding season commonly considered May- August, unless under appropriate permitting.

These efforts will help to ensure that impacts to retained trees are minimal and that the condition and character of these trees will not change, either in the short-term or long-term period.

## **6.1 Site Inspections**

Site inspections shall be conducted once the TPZ has been delineated and fencing erected. Construction shall not begin until the TPZ meets the satisfaction of City of Mississauga staff. During construction, inspections shall be conducted at regular intervals to monitor tree health as it relates to construction activity and provide mitigating recommendations where/if warranted.

## **7.0 FOREST EDGE MANAGEMENT**

The removal of forest vegetation along the existing edge of the Britannia Farm or the removal of a portion of a forested feature that results in the exposure of a new forest edge will have several negative impacts along the forest borders and within the forest interior. Some of the direct and indirect impacts as a result of newly exposed edges include:

- exposure of the retained vegetation to the effects of increased light, wind, and sun which results in decreased soil moisture;
- exposure to salt spray;
- reduced establishment of shade tolerant plant species and an overall reduction in plant species richness and abundance;
- increased invasion/spread of aggressive non-native plant species;
- loss of native seedbank;
- decreased presence of interior habitat;
- exposure of “edge” trees to windthrow;
- changes in wildlife diversity and abundances;
- destabilization of landforms composed of unconsolidated material and/or soil compaction;
- changes to hydrology; and
- increased noise.

Forest edge management techniques and principles, in accordance with the TRCA *Forest Edge Management Plan Guidelines* (2004), are recommended for the Britannia Farm woodlot. Credit Valley Conservation Authority does not have edge management guidelines and as such, it is recommended that TRCA guidelines be used. Where new forest edges are exposed, forest management techniques will be implemented to mitigate the associated impacts to the Britannia Farm woodlot. As part of the Forest Edge Management, mitigation measures will include, but not be limited to the following:

- Planting of appropriate native trees, shrubs and ground flora shall be undertaken as soon as possible following vegetation removals. Plantings along the disturbed forest edges will provide a protective buffer. Newly exposed forest edges become exposed to a greater potential for aggressive and invasive species infiltration further into the forest interior causing greater impacts. Micro-habitat conditions are also altered due to a greater incident of light penetrating further into the forest resulting in decreased soil moisture and increased windthrow. Plant species used within the buffer shall be somewhat similar to those in the adjacent habitat and be non-invasive in nature.
- Grading within areas where edges will be newly created shall be designed to meet existing grades a minimum of 3 m away from the tree drip-line, to the extent possible.
- Compaction of soils on lands immediately adjacent to the newly exposed forest edge will be minimized to the extent possible. Construction activities can result in cut roots, and soil compaction due to re-grading and fill placement. Cut tree roots can reduce a tree's capacity to uptake and transfer water and nutrients, and soil compaction can result in a decrease in air spaces within the soil which can reduce the infiltration capacity of the soil, limits soil oxygen and limits root penetration. Decompaction efforts and methodology shall be site specific. Where decompaction is required, it shall extend to a minimum depth of approximately 25 cm.
- Drainage patterns adjacent to newly created edges shall be maintained to avoid changes in soil moisture, this is especially important around wetland areas and forest communities with substrates that maintain increased moisture capacity.
- A plan must be in place to immediately mitigate the spread of invasive and/or non-native plant species.
- A monitoring plan must be developed to ensure that the newly planted material survives and fulfils the intended function and to ensure that the inadvertent spread of invasive and/or non-native plant species is appropriately managed.
- Plant species identified for planting within the newly exposed edges will consist of native species that have been identified within the existing forest communities, or native plant species that are suitable during the initial stages of restoration (i.e., higher light conditions, etc.), which will take up resources that could otherwise be taken up by invasive and/or non-native disturbance tolerant species. As tree and shrub seedlings grow and reduce light conditions, it is expected that those planted ground flora species requiring higher light conditions will be at a competitive disadvantage and those more suitable species already established within the remaining and undisturbed forests, will slowly establish.
- The limit of clearing and grubbing shall be delineated in the field using tree protection barrier in accordance with OPSS 801 and/or City of Mississauga requirements.

## **7.1 Invasive Species Management**

Within the study area invasive species such as garlic mustard (*Alliaria petiolata*), and common buckthorn (*Rhamnus cathartica*) have been noted; though their presence within the study area was not documented as extensive. However, disturbance activities can promote the spread of invasive plant species which could substantially alter the structure and function of mature vegetation communities that continue to exist post-construction.

It is not always possible or even desirable to completely remove all non-native species; however, truly invasive species such as buckthorn, swallow-wort (*Cynanchum rossicum*), garlic mustard, and cow vetch

(*Vicia cracca*) should be managed over a five year period in support of the establishment of those native and planted species. Active invasive species management over the first five years is important to maintain the quality of restored vegetation communities by reducing competition from invasive species during the early stages of plant establishment and growth within newly planted areas (i.e., where edge management plantings have been undertaken along newly exposed forest and wetland edges, or within forest restoration sites).

An important step in managing aggressive and invasive plant species is implementing concentrated or dense plantings with suitable native plants. In areas where there are higher concentrations of invasive species, replacement will be with dense numbers of plant species that are fast-growing and suitable to the respective micro-habitat conditions. These types of replacement plantings following the removal of any invasive plant species shall be undertaken as soon as possible following removals. This strategy will help to mitigate the regeneration and subsequent spread of invasive and/or non-native plant species through competition.

To further mitigate the spread of invasive species during construction, the following actions shall be taken:

- the extent of the target invasive species within vegetation communities that will be impacted should be indicated on contract drawings and confirmed in the field by an experienced restoration/plant biologist;
- only when required, herbicide treatment/application may be needed to reduce the size and spread of invasive species' population within restored areas. Any herbicide application must be applied by a licensed applicator. The preferred application method would be with an applicator that directly applies the herbicide with a wicking device/wand to mitigate spray drift onto desirable cohort species;
- equipment working in the identified invasive species locations will be thoroughly cleaned prior to moving from the site; and
- soil removed from sites with a high incidence of non-native species will **not** be re-used for any vegetation restoration sites unless it is placed in an area that will be actively and regularly managed. Otherwise, such soils will be buried below impervious surfaces (e.g., road), to the extent possible.

**APPENDIX A**  
**TREE INVENTORY**

LGL TA Number: TA8181  
 Study Area: McLaughlin Road  
 Client: IBI  
 Survey Date(s): October 26, 29, 31, and November 2, 2012, July 8, 2013  
 Collectors: LMC, SLL, DCS



Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management					COMMENTS		
					Tl	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits
*	E10	<i>Quercus rubra</i>	red oak	10	G	G	G	3.5										X		X			2.4	
*	E11	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3										X	X		X		2.4	
*	E12	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2.5										X		X			2.4	
*	E13	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3									X		X		X		2.4	
*	E14	<i>Picea glauca</i>	white spruce	27	G	G	G	2.5										X		X			3.6	
*	E15	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	2.5										X		X			2.4	
*	E16	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3										X			X		3	
*	E17	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	4										X			X		2.4	
*	E18	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	23	G	P	P	4	20									X			X		3	leader broken, dead
*	E19	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	22	G	G	G	4										X			X		3	
*	E20	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3.5										X	X				2.4	
*	E21	<i>Fraxinus americana</i>	white ash	23	G	G	G	3										X		X			3	
*	E22	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2.5										X		X			2.4	
*	E23	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	22	G	G	G	3										X	X				3	
*	E24	<i>Quercus rubra</i>	red oak	56	G	G	G	3										X			X		7.2	
*	E25	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3										X		X			2.4	
*	E26	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	27	G	G	G	4										X			X		3.6	
*	E27	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2.5										X		X			2.4	
*	E28	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	4										X		X			2.4	
*	E29	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	22	G	G	G	4										X			X		3	
*	E30	<i>Quercus rubra</i>	red oak	41	G	G	G	3										X			X		5.4	
*	E31	<i>Quercus rubra</i>	red oak	44, 47	G	G	G	9		X	X							X			X		6	
*	E32	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3										X			X		2.4	
*	E33	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	3										X			X		2.4	
*	E34	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	3										X			X		2.4	
*	E35	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3										X			X		2.4	
*	E36	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	2.5										X		X			2.4	
*	E37	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	2.5										X		X			2.4	
*	E38	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	6										X			X		3.6	
*	E39	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2.5										X		X			2.4	
*	E40	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3										X		X			2.4	
*	E41	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3.5										X		X			2.4	
*	E42	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	2										X			X		2.4	
*	E43	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	2										X			X		2.4	
*	E44	<i>Quercus rubra</i>	red oak	29	G	G	G	3.5										X			X		3.6	
*	E45	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	4										X			X		2.4	
*	E46	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	33	G	G	G	3.5										X		X			4.2	one stem dead
*	E47	<i>Fraxinus americana</i>	white ash	15	F	G	G	2.5				L, W						X			X		2.4	covered in grape vine
*	E48	<i>Ulmus americana</i>	American elm	11, 25, 26, 22	G	G	G	5										X			X		3.6	
*	E49	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	P	P	P	2.5	60									X			X		2.4	leader dead
*	E50	<i>Quercus rubra</i>	red oak	17	G	G	G	4.5	5									X			X		2.4	pruned for road
*	E51	<i>Quercus rubra</i>	red oak	15, 19	G	G	G	4.5	5									X			X		2.4	
*	E52	<i>Quercus rubra</i>	red oak	18	G	G	G	4.5										X			X		2.4	
*	E53	<i>Quercus rubra</i>	red oak	11	G	G	G	2										X			X		2.4	pruned for road
*	E54	<i>Quercus rubra</i>	red oak	30	G	G	G	4										X			X		3.6	
*	E55	<i>Ulmus americana</i>	American elm	34	G	G	G	4										X			X		4.2	
*	E56	<i>Qu</i>																						

**LGL TA Number:** TA8181  
**Study Area:** McLaughlin Road  
**Client:** IBI  
**Survey Date(s):** October 26, 29, 31, and November 2, 2012 , July 8, 2013  
**Collectors:** LMC, SLL, DCS



Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION										Management				COMMENTS						
					Tl	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits
*	E66	<i>Ulmus americana</i>	American elm	16	G	G	G	2												X			X		2.4
*	E67	<i>Ulmus americana</i>	American elm	12	G	G	G	2												X			X		2.4
*	E68	<i>Ulmus americana</i>	American elm	11	G	G	G	1.5												X			X		2.4
*	E69	<i>Quercus rubra</i>	red oak	70	G	G	G	5												X			X		8.4
*	E70	<i>Ulmus americana</i>	American elm	20	G	G	G	3												X			X		2.4
*	E71	<i>Tilia cordata</i>	little-leaf linden	48, 30	G	G	G	5												X			X		6
*	E72	<i>Ulmus americana</i>	American elm	20	G	G	G	3												X			X		2.4
*	E73	<i>Ulmus americana</i>	American elm	21	G	G	G	4												X			X		3
*	E74	<i>Ulmus americana</i>	American elm	13	G	G	G	3												X			X		2.4
*	E75	<i>Ulmus americana</i>	American elm	12, 8	G	G	G	2												X			X		2.4
*	E76	<i>Ulmus americana</i>	American elm	17	G	G	G	3												X			X		2.4
*	E77	<i>Ulmus americana</i>	American elm	19	G	G	G	2.5												X			X		2.4
*	E78	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	2.5												X			X		2.4
*	E79	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	2.5												X			X		2.4
*	E80	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	P	P	P	1.5	20											X			X		2.4
*	E81	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	2												X			X		2.4
*	E82	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	F	F	F	2												X			X		2.4
*	E83	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3.5												X			X		2.4
*	E84	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2.5												X			X		2.4
*	E85	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	4												X			X		2.4
*	E86	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	3.5												X			X		2.4
*	E87	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3.5												X			X		3
*	E88	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	4.5												X			X		3.6
*	E89	<i>Fagus grandifolia</i>	American beech	20	G	G	G	3												X			X		2.4
*	E90	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2.5												X			X		2.4
*	E91	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	4												X			X		3
*	E92	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	4												X			X		3
*	E93	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16, 28	F	G	G	4												X			X		3.6
*	E94	<i>Quercus rubra</i>	red oak	25	G	G	G	3.5		L, W										X			X		3
*	E95	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	41	G	F	F	5												X			X		5.4
*	E96	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	2.5												X			X		2.4
*	E97	<i>Quercus rubra</i>	red oak	61	G	G	G	7												X			X		7.8
*	E98	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			X		2.4
*	E99	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	2.5	5											X			X		2.4
*	E100	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	3.5												X			X		3.6
*	E101	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	22	G	G	G	4												X			X		pruned for road
*	E102	<i>Quercus macrocarpa</i>	bur oak	20	G	G	G	4												X			X		2.4
*	E103	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	F	G	G	3												X			X		2.4
*	E104	<i>Quercus rubra</i>	red oak	77	G	G	G	8												X			X		9.6
*	E105	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	2.5												X			X		2.4
*	E106	<i>Quercus rubra</i>	red oak	53	G	G	G	8												X			X		6.6
*	E107	<i>Quercus rubra</i>	red oak	18	G	G	G	5												X			X		2.4
*	E108	<i>Prunus serotina</i>	black cherry	49	G	G	G	1												X			X		6
*	E109	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3												X			X		2.4
*	E110	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3												X			X		2.4
*	E111	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	23	G	G	G	3.5												X			X		3
*	E112	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			X		2.4
*	E113	<i>Quercus rubra</i>	red oak	63	G	G	G	7												X			X		7.8
*	E114	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	65	G	G	G	6												X			X		7.8
*	E115	<i>Quercus rubra</i>	red oak	58	G	G	G	7												X			X		7.2
*	E116	<i>Quercus rubra</i>	red oak	56	G	G	G	7												X			X		7.2
*	E117	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	45	G	G	G	5												X			X		5.4
*	E118	<i>Ulmus americana</i>	American elm	18	G	G	G	5												X			X		2.4
*	E119	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2.5												X			X		2.4
*	E120	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	4												X			X		3.6
*	E121	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	2												X			X		2.4
*	E122	<i>Quercus rubra</i>	red oak	50	G	G	G	4												X			X		6
*	E123	<i>Quercus rubra</i>	red oak	27	G	G	G	4												X			X		3.6

Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management				COMMENTS			
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits
*	E124	<i>Fraxinus pennsylvanica</i>	red ash	13	G	G	G	1												X			X	2.4
*	E125	<i>Quercus rubra</i>	red oak	12, 9	G	G	G	2	5											X			X	2.4
*	E126	<i>Fraxinus americana</i>	white ash	16	G	G	G	2												X			X	2.4
*	E127	<i>Prunus serotina</i>	black cherry	33	G	G	G	4												X			X	4.2
*	E128	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	41	G	G	G	4												X			X	5.4
*	E129	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	38	G	G	G	4												X			X	4.8
*	E130	<i>Quercus rubra</i>	red oak	18	G	G	G	3.5												X			X	2.4
*	E131	<i>Quercus rubra</i>	red oak	17	G	G	G	3												X			X	2.4
*	E132	<i>Quercus rubra</i>	red oak	49	G	G	G	4												X			X	6
*	E133	<i>Quercus rubra</i>	red oak	61	G	G	G	5												X			X	7.8
E134		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	3												X			X	2.4
E135		<i>Pinus strobus</i>	white pine	49	G	G	G	4												X			X	6
E136		<i>Quercus rubra</i>	red oak	56	G	G	G	6												X			X	7.2
E137		<i>Fagus grandifolia</i>	American beech	17	G	G	G	3												X			X	2.4
E138		<i>Fagus grandifolia</i>	American beech	10	G	G	G	2												X			X	2.4
E139		<i>Fagus grandifolia</i>	American beech	10	G	G	G	2												X			X	2.4
E140		<i>Fagus grandifolia</i>	American beech	17	G	G	G	2												X			X	2.4
E141		<i>Fagus grandifolia</i>	American beech	18	G	G	G	3												X			X	2.4
E142		<i>Acer platanoides</i>	Norway maple	36	G	G	G	4												X			X	4.8
E143		<i>Acer platanoides</i>	Norway maple	42	G	G	G	4												X			X	5.4
E144		<i>Fagus grandifolia</i>	American beech	16	G	G	G	3												X			X	2.4
E145		<i>Pinus nigra</i>	Austrian pine	15	G	G	G	2												X			X	2.4
E146		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	2												X			X	2.4
E147		<i>Fagus grandifolia</i>	American beech	21	G	G	G	3												X			X	3
E148		<i>Fagus grandifolia</i>	American beech	17	G	G	G	3												X			X	2.4
E149		<i>Quercus rubra</i>	red oak	24	G	G	G	4												X			X	3
E150		<i>Ostrya virginiana</i>	ironwood	10	G	G	G	2												X			X	2.4
E151		<i>Quercus alba</i>	white oak	61	G	G	G	6												X			X	7.8
E152		<i>Quercus rubra</i>	red oak	13	G	G	G	2												X			X	2.4
E153		<i>Fagus grandifolia</i>	American beech	12	G	G	G	3												X			X	2.4
E154		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			X	2.4
E155		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	30	G	G	G	4												X			X	3.6
E156		<i>Pinus nigra</i>	Austrian pine	18	G	G	G	3				L, S								X			X	2.4
E157		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	5												X			X	3.6
E158		<i>Quercus rubra</i>	red oak	17	G	G	G	3												X			X	2.4
E159		<i>Ostrya virginiana</i>	ironwood	10	G	G	G	2												X			X	2.4
E160		<i>Quercus rubra</i>	red oak	13	G	G	G	2												X			X	2.4
E161		<i>Quercus rubra</i>	red oak	33	G	G	G	3			L, W									X			X	4.2
E162		<i>Ostrya virginiana</i>	ironwood	11	G	G	G	2												X			X	2.4
E163		<i>Ostrya virginiana</i>	ironwood	10	G	G	G	2												X			X	2.4
E164		<i>Quercus rubra</i>	red oak	25	G	G	G	3			L, W									X			X	3
E165		<i>Quercus rubra</i>	red oak	26	G	G	G	3												X			X	3.6
E166		<i>Fraxinus pennsylvanica</i>	red ash	17	G	G	G	2												X			X	2.4
E167		<i>Tilia americana</i>	basswood	23	G	G	G	4												X			X	3
E168		<i>Fraxinus pennsylvanica</i>	red ash	31	G	G	G	5												X			X	4.2
E169		<i>Ostrya virginiana</i>	ironwood	13	G	G	G	2												X			X	2.4
E170		<i>Ostrya virginiana</i>	ironwood	11	G	G	G	2			L, S									X			X	2.4
E171		<i>Fraxinus pennsylvanica</i>	red ash	19	G	G	G	3			L, E									X			X	2.4
E172		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	4												X			X	3.6
E173		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	25	G	G	G	3												X			X	3
E174		<i>Quercus rubra</i>	red oak	23	G	G	G	3												X			X	3
E175		<i>Quercus rubra</i>	red oak	10	G	G	G	2												X			X	2.4
E176		<i>Fraxinus pennsylvanica</i>	red ash	10	G	G	G	2												X			X	2.4
E177		<i>Quercus rubra</i>	red oak	27	G	G	G	4												X			X	3.6
E178		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	2												X			X	2.4
E179		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3												X			X	3
E180		<i>Fagus grandifolia</i>	American beech	18	G	G	G	3												X			X	2.4
E181		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	31, 36	G	G	G	6	X	X										X			X	4.8

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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	Condition													Management					Comments				
					Tl	CS	CV	Radial DripLine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits	TPZ (m)	
	E182	<i>Fraxinus pennsylvanica</i>	red ash	18	G	G	G	2												X			X		2.4		
	E183	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	34	G	G	G	2												X			X		4.2		
	E184	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	2												X			X		2.4		
	E185	<i>Picea glauca</i>	white spruce	28	G	G	G	3												X			X		3.6		
	E186	<i>Picea glauca</i>	white spruce	25	G	G	G	3			L, S									X			X		3		
	E187	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	3												X			X		3		
	E188	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	F	G	G	2												X			X		2.4		
	E189	<i>Quercus macrocarpa</i>	bur oak	30	G	G	G	4												X			X		3.6		
	E190	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	44	G	G	G	5													X			X		5.4	
	E191	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2												X			X		2.4		
	E192	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16, 6	G	G	G	3	X	X										X			X		2.4		
	E193	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3												X			X		3		
	E194	<i>Fraxinus pennsylvanica</i>	red ash	21	G	G	G	4												X			X		3		
	E195	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3												X			X		2.4		
	E196	<i>Ostrya virginiana</i>	ironwood	15	G	G	G	3			L, S									X			X		2.4		
	E197	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			X		2.4		
	E198	<i>Quercus rubra</i>	red oak	67	G	G	G	6												X			X		8.4		
	E199	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3												X			X		2.4		
	E200	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	29	G	G	G	4												X			X		3.6		
	E201	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	4												X			X		3.6		
	E202	<i>Fraxinus pennsylvanica</i>	red ash	20	G	G	G	3												X			X		2.4		
	E203	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	F	G	G	3									X	X		X			X		2.4		
	E204	<i>Acer platanoides</i>	Norway maple	13	F	F-P	F-P	3												X			X		2.4		
	E205	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			X		2.4		
	E206	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	3												X			X		3		
	E207	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3												X			X		2.4		
	E208	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	2												X			X		2.4	growing through fence	
	E209	<i>Quercus rubra</i>	red oak	55	G	G	G	5												X			X		6.6		
	E210	<i>Quercus rubra</i>	red oak	58	G	G	G	5												X			X		7.2		
	E211	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3												X			X		2.4		
	E212	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			X		2.4		
	E213	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	4												X			X		3.6		
	E214	<i>Pinus nigra</i>	Austrian pine	25	G	G	G	4			L, E									X			X		3		
	E215	<i>Pinus nigra</i>	Austrian pine	28	G	G	G	3												X			X		3.6		
	E216	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	3												X			X		2.4		
	E217	<i>Pinus nigra</i>	Austrian pine	20	G	G	G	4			L, E									X			X		2.4		
	E218	<i>Quercus rubra</i>	red oak	44	G	G	G	6												X			X		5.4		
	E219	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3										X			X		2.4				
	E220	<i>Quercus rubra</i>	red oak	48	G	G	G	7	5											X			X		6		
	E221	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2												X			X		2.4		
	E222	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2												X			X		2.4		
	E223	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	3												X			X		2.4		
	E224	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3												X			X		2.4		
	E225	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	F-P	F	F	3												X			X		3.6	trunk split	
	E226	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	3												X			X		2.4		
	E227	<i>Quercus rubra</i>	red oak	36	G	G	G	4												X			X		4.8		
	E228	<i>Acer platanoides</i>	Norway maple	21	G	G	G	3												X			X		3	exposed roots	
	E229	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	32	G	G	G	4												X			X		4.2		
	E230	<i>Acer platanoides</i>	Norway maple	28	G	G	G	3												X			X		3.6		
	E231	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	3												X			X		3		
	E232	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	35	G	G	G	4												X			X		4.2		
	E233	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	31	G	G	G	3												X			X		4.2		
	E234	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	2												X			X		2.4		
	E235	<i>Ostrya virginiana</i>	ironwood	13	G	G	G	2												X			X		2.4		
	E236	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	3									X			X			X		3		
	E237	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	3												X			X		3.6		
	E238	<i>Fraxinus pennsylvanica</i>	red ash	20	G	G	G	3												X			X		2.4		
	E239	<i>Quercus alba</i>	white oak	26	G	G	G	3												X			X		3.6		

LGL TA Number: TA8181  
 Study Area: McLaughlin Road  
 Client: IBI  
 Survey Date(s): October 26, 29, 31, and November 2, 2012, July 8, 2013  
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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS			
					T1	CS	CV	Radial Dripiline (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits	TPZ (m)
E240	<i>Quercus rubra</i>	red oak		25	G	G	G	3						X						X			X	3	bark peeling	
E241	<i>Quercus rubra</i>	red oak		45	G	G	G	4												X	X			5.4		
E242	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple		22	G	G	G	4																3	one stem dead	
E243	<i>Acer platanoides</i>	Norway maple		26	G	G	G	3												X				3.6		
E244	<i>Quercus rubra</i>	red oak		43	G	G	G	6												X				5.4		
E245	<i>Tilia americana</i>	basswood		11	G	G	G	2													X	X			2.4	
E246	<i>Tilia americana</i>	basswood		38	G	G	G	4													X				4.8	
E247	<i>Tilia americana</i>	basswood		32, 32	G	G	G	5		X										X				4.2		
E248	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple		33	G	G	G	3													X				4.2	
E249	<i>Quercus rubra</i>	red oak		39	G	G	G	4												X				4.8		
E250	<i>Fraxinus pennsylvanica</i>	red ash		27	G	G	G	4				L, E									X	X			3.6	
E251	<i>Acer platanoides</i>	Norway maple		34	G	G	G	4												X		X		4.2		
E252	<i>Quercus rubra</i>	red oak		25, 25	G	G	G	4												X				3		
E253	<i>Tilia americana</i>	basswood		27	G	G	G	3				L, N								X				3.6		
E254	<i>Tilia americana</i>	basswood		49	G	G	G	3												X				6		
E255	<i>Tilia americana</i>	basswood	20, 28, 12, 21, 25	G	G	G	G	5												X		X		3.6	multistem	
E256	<i>Acer platanoides</i>	Norway maple		33	G	G	G	4												X		X		4.2		
E257	<i>Pinus nigra</i>	Austrian pine		27	G	G	G	3				L, E		X						X		X		3.6		
E258	<i>Pinus nigra</i>	Austrian pine		36	G	G	G	3				L, E		X						X		X		4.8		
E259	<i>Pinus nigra</i>	Austrian pine		28	G	G	G	3						X						X		X		3.6		
E260	<i>Tilia americana</i>	basswood		19	G	G	G	3												X		X		2.4		
E261	<i>Tilia americana</i>	basswood		32, 16	G	G	G	4												X		X		4.2		
E262	<i>Quercus rubra</i>	red oak		48	G	G	G	6												X		X		6	exposed roots	
E263	<i>Quercus rubra</i>	red oak		20	G	G	G	3												X		X		2.4		
E264	<i>Tilia americana</i>	basswood		23	G	G	G	4												X		X		3		
E265	<i>Tilia americana</i>	basswood		22	G	G	G	4												X		X		3		
E266	<i>Tilia americana</i>	basswood		20	G	G	G	4												X		X		2.4		
E267	<i>Tilia americana</i>	basswood		29	G	G	G	5												X		X		3.6		
E268	<i>Fraxinus pennsylvanica</i>	red ash		26	G	G	G	4												X		X		3.6		
E269	<i>Picea pungens</i>	blue spruce		36	G	G	G	6												X		X		4.8		
E270	<i>Picea pungens</i>	blue spruce		31	G	G	G	5												X		X		4.2		
E271	<i>Fraxinus pennsylvanica</i>	red ash		24	G	G	G	4												X		X		3		
E272	<i>Pinus nigra</i>	Austrian pine		26	G	G	G	4				L, E		X						X		X		3.6		
E273	<i>Pinus nigra</i>	Austrian pine		33	G	G	G	4				L, E		X						X		X		4.2		
E274	<i>Fraxinus pennsylvanica</i>	red ash		25	G	G	G	4												X		X		3		
E275	<i>Fraxinus pennsylvanica</i>	red ash		25	G	G	G	5												X		X		3		
E276	<i>Tilia americana</i>	basswood	30, 34	G	G	G	G	4		X										X		X		4.2		
E277	<i>Tilia americana</i>	basswood	19	G	G	G	G	3												X		X		2.4		
E278	<i>Tilia americana</i>	basswood	26, 27	G	G	G	G	4												X		X		3.6		
E279	<i>Quercus macrocarpa</i>	bur oak		36	G	G	G	4												X		X		4.8		
E280	<i>Tilia americana</i>	basswood		20	G	G	G	3												X		X		2.4		
E281	<i>Tilia americana</i>	basswood		14	G	G	G	2												X		X		2.4		
E282	<i>Quercus macrocarpa</i>	bur oak		25	G	G	G	4												X		X		3		
E283	<i>Fraxinus pennsylvanica</i>	red ash		28	G	G	G	4												X		X		3.6		
E284	<i>Tilia americana</i>	basswood		40	G	G	G	4												X		X		4.8		
E285	<i>Tilia americana</i>	basswood		22	G	G	G	4												X		X		3		
E286	<i>Quercus rubra</i>	red oak		22	G	G	G	4												X		X		3		

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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS			
					T1	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits	TPZ (m)
	E297	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	30	G	G	G	3											X			X			3.6	
	E298	<i>Tilia americana</i>	basswood	47	F	F	F	5											X			X			6	leader dead on both stems
	E299	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	27, 27	F	F	F	4											X			X			3.6	
	E300	<i>Quercus rubra</i>	red oak	35	G	G	G	4											X			X			4.2	
	E301	<i>Ulmus americana</i>	American elm	20	G	G	G	3											X			X			2.4	
	E302	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	9, 36	G	G	G	3											X			X			4.8	
	E303	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	4											X			X			2.4	
	E304	<i>Tilia americana</i>	basswood	27	G	G	G	3											X			X			3.6	
	E305	<i>Tilia americana</i>	basswood	49	G	G	G	4											X			X			6	
	E306	<i>Tilia americana</i>	basswood	49	G	G	G	5			S, E								X			X			6	
	E307	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	35	G	G	G	4											X			X			4.2	
	E308	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	36	G	G	G	4											X			X			4.8	
	E309	<i>Pinus nigra</i>	Austrian pine	35	G	G	G	3			L, E								X			X			4.2	
	E310	<i>Pinus nigra</i>	Austrian pine	30	G	G	G	3											X			X			3.6	
	E311	<i>Tilia americana</i>	basswood	28	G	G	G	4											X			X			3.6	
	E312	<i>Pinus nigra</i>	Austrian pine	37	G	G	G	4											X			X			4.8	
	E313	<i>Pinus nigra</i>	Austrian pine	36	G	G	G	5											X			X			4.8	
	E314	<i>Quercus rubra</i>	red oak	41	G	G	G	5											X			X			5.4	
	E315	<i>Quercus rubra</i>	red oak	49	G	G	G	5											X			X			6	
	E316	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	39	G	G	G	5											X			X			4.8	
	E317	<i>Fraxinus pennsylvanica</i>	red ash	29	G	G	G	4											X			X			3.6	
	E318	<i>Fraxinus pennsylvanica</i>	red ash	22	G	G	G	3											X			X			3	
	E319	<i>Fraxinus pennsylvanica</i>	red ash	28	G	G	G	4											X			X			3.6	
	E320	<i>Fraxinus pennsylvanica</i>	red ash	20	G	G	G	3											X			X			2.4	
	E321	<i>Ostrya virginiana</i>	ironwood	17	G	G	G	2											X			X			2.4	
	E322	<i>Ostrya virginiana</i>	ironwood	18	G	G	G	3											X			X			2.4	
	E323	<i>Quercus rubra</i>	red oak	32	G	G	G	4											X			X			4.2	
	E324	<i>Tilia americana</i>	basswood	11, 22, 13, 22	G	G	G	4											X			X			3	multistem
	E325	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	34	G	G	G	5											X			X			4.2	
	E326	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	39	G	G	G	4											X			X			4.8	
	E327	<i>Pinus nigra</i>	Austrian pine	40	G	G	G	4											X			X			4.8	
	E328	<i>Pinus nigra</i>	Austrian pine	42	G	G	G	4											X			X			5.4	
	E329	<i>Tilia americana</i>	basswood	30	G	G	G	4											X			X			3.6	
	E330	<i>Tilia americana</i>	basswood	30	G	G	G	4											X			X			3.6	
	E331	<i>Pinus nigra</i>	Austrian pine	31	G	G	G	5											X			X			4.2	
	E332	<i>Acer platanoides</i>	Norway maple	32	G	G	G	4											X			X			4.2	
	E333	<i>Acer platanoides</i>	Norway maple	31	G	G	G	4											X			X			4.2	
	E334	<i>Acer platanoides</i>	Norway maple	29	G	G	G	4											X			X			3.6	
	E335	<i>Acer platanoides</i>	Norway maple	37	G	G	G	4											X			X			4.8	
	E336	<i>Pinus nigra</i>	Austrian pine	37	G	G	G	4											X			X			4.8	
	E337	<i>Pinus nigra</i>	Austrian pine	30	G	G	G	4											X			X			3.6	
	E338	<i>Pinus nigra</i>	Austrian pine	27	G	G	G	4											X			X			3.6	
	E339	<i>Fraxinus pennsylvanica</i>	red ash	34	G	G	G	4											X			X			4.2	
	E340	<i>Fraxinus pennsylvanica</i>	red ash	40	G	G	G	4											X			X			4.8	
	E341	<i>Fagus grandifolia</i>	American beech	33	G	G	G	4											X			X			4.2	
	E342	<i>Pinus nigra</i>	Austrian pine	31</td																						

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					Tl	CS	CV	Radial Dripiline (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	Option 2a/2b	TPZ (m)
	E355	<i>Fraxinus pennsylvanica</i>	red ash	28	G	G	G	3												X	X		3.6	
	E356	<i>Fraxinus pennsylvanica</i>	red ash	34	G	G	G	3												X	X		4.2	
	E357	<i>Acer platanoides</i>	Norway maple	29	G	G	G	3												X	X		3.6	
	E358	<i>Acer platanoides</i>	Norway maple	33	G	G	G	3												X			4.2	
	E450	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2												X			2.4	
	E451	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	2												X			2.4	
	E452	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	2												X			2.4	
	E453	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	31, 9	G	G	G	4												X			4.2	
	E454	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	47	G	G	G	4												X			6	
	E455	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	33	G	G	G	4												X			4.2	
	E456	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2												X			2.4	
	E457	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	56	G	G	G	5												X			7.2	
	E458	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	2												X			2.4	
	E459	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	38	G	G	G	3												X			4.8	
	E460	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	3												X			2.4	
	E461	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3												X	X		2.4	
	E462	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3												X			2.4	
	E463	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	69	G	G	G	6												X			8.4	
	E464	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			2.4	
	E465	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	36	G	G	G	4												X			4.8	
	E466	<i>Fagus grandifolia</i>	American beech	39	F	F	F	3												X			4.8	evidence of beech bark disease
	E467	<i>Fagus grandifolia</i>	American beech	29	F	F	F	3												X			3.6	
	E468	<i>Quercus rubra</i>	red oak	27	G	G	G	3												X			3.6	
	E469	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3												X			2.4	
	E470	<i>Tilia americana</i>	basswood	13	G	G	G	3												X			2.4	
	E471	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	4												X			3.6	
	E472	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	37	G	G	G	4												X			4.8	
	E473	<i>Fagus grandifolia</i>	American beech	12	G	G	G	3												X			2.4	
	E474	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	36	G	G	G	4												X			4.8	
	E475	<i>Quercus rubra</i>	red oak	70	G	G	G	6												X			8.4	
	E476	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X			2.4	
	E477	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	34	G	G	G	4												X			4.2	
	E478	<i>Quercus rubra</i>	red oak	54	G	G	G	4												X			6.6	
	E479	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	4												X			3	
	E480	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3												X			2.4	
	E481	<i>Quercus rubra</i>	red oak	43	G	G	G	5												X			5.4	
	E482	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3												X			2.4	
	E483	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	35	G	G	G	4												X	X		4.2	
	E484	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	32	G	G	G	4												X			4.2	
	E485	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	3												X	X		2.4	
	E486	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3												X			2.4	
	E487	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	43	G	G	G	3												X			5.4	
	E488	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3												X			3	
	E489	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	45	G	G	G	3												X			5.4	
	E490	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	4												X			3.6	
	E491	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	4												X			2.4	
	E492	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple																					

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**Study Area:** McLaughlin Road  
**Client:** IBI  
**Survey Date(s):** October 26, 29, 31, and November 2, 2012 , July 8, 2013  
**Collectors:** LMC, SLL, DCS



Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management				COMMENTS					
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits	TPZ (m)
	E504	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3											X			X		2.4		
	E505	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3											X			X		2.4		
	E506	<i>Prunus avium</i>	sweet cherry	22	G	G	G	3											X			X		3		
	E507	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	3											X			X		2.4		
	E508	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	22, 14	G	G	G	3											X			X		3		
	E509	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3										X			X		3			
	E510	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3											X	X				2.4		
	E511	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3											X	X				2.4		
	E512	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3										X					2.4			
	E513	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	31	G	G	G	3										X			X		4.2			
	E514	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	32	G	G	G	3										X			X		4.2			
	E515	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	4										X			X		2.4			
	E516	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	4										X					3.6			
	E517	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	32	G	G	G	4										X					4.2			
	E518	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	60	G	G	G	4										X			X		7.2			
	E519	<i>Juglans nigra</i>	black walnut	20	G	G	G	4										X			X		2.4			
	E520	<i>Ulmus americana</i>	American elm	15	G	G	G	4										X					2.4			
	E521	<i>Tilia americana</i>	basswood	21	G	G	G	4										X			X		3			
	E522	<i>Ulmus americana</i>	American elm	10	G	G	G	4											X			X		2.4		
	E523	<i>Ulmus americana</i>	American elm	13	G	G	G	4											X			X		2.4		
	E524	<i>Ulmus americana</i>	American elm	11	G	G	G	4											X			X		2.4		
	E525	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	4											X			X		2.4		
	E526	<i>Fraxinus pennsylvanica</i>	red ash	15	G	G	G	4											X					2.4		
	E527	<i>Ulmus americana</i>	American elm	15	G	G	G	3											X					2.4		
	E528	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3											X					2.4		
	E529	<i>Fraxinus pennsylvanica</i>	red ash	11	G	G	G	3											X			X		2.4		
	E530	<i>Fraxinus pennsylvanica</i>	red ash	17	G	G	G	3											X			X		2.4		
	E531	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3											X			X		2.4		
	E532	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3											X					2.4		
	E533	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26, 25, 31	G	G	G	3											X					4.2		
	E534	<i>Ulmus americana</i>	American elm	12	G	G	G	3											X			X		2.4		
	E535	<i>Ulmus americana</i>	American elm	10	G	G	G	3											X			X		2.4		
	E536	<i>Ulmus americana</i>	American elm	16	G	G	G	3											X			X		2.4		
	E537	<i>Ulmus americana</i>	American elm	12	G	G	G	3											X			X		2.4		
	E538	<i>Juglans nigra</i>	black walnut	16	G	G	G	3											X			X		2.4		
	E539	<i>Juglans nigra</i>	black walnut	19	G	G	G	4												X	X				2.4	
	E540	<i>Juglans nigra</i>	black walnut	17	G	G	G	4												X			X		2.4	
	E541	<i>Fraxinus pennsylvanica</i>	red ash	15	G	G	G	4											X			X		2.4		
	E542	<i>Prunus serotina</i>	black cherry	25	G	G	G	4												X					3	
	E543	<i>Fraxinus pennsylvanica</i>	red ash	13	G	G	G	4												X	X				2.4	
	E544	<i>Juglans nigra</i>	black walnut	21	G	G	G	5												X					3	
	E545	<i>Juglans nigra</i>	black walnut	18	G	G	G	4												X			X		2.4	
	E546	<i>Fraxinus pennsylvanica</i>	red ash	10	G	G	G	4												X			X		2.4	
	E547	<i>Ulmus americana</i>	American elm	11	G	G	G	4												X			X		2.4	
	E548	<i>Quercus rubra</i>	red oak	70	G	G	G	6												X			X		8.4	
	E549	<i>Ulmus americana</i>	American elm	16	G	G	G	3												X			X		2.4	
	E550	<i>Ulmus americana</i>	American elm	17	G	G	G	2												X			X		2.4	
	E551	<i>Quercus rubra</i>	red oak	53, 43, 52	G	G	G	6												X			X		6.6	
	E552	<i>Quercus rubra</i>	red oak	34	G	G	G	3												X			X		4.2	
	E553	<i>Ulmus americana</i>	American elm	13	G	G	G	3												X			X		2.4	
	E554	<i>Fagus grandifolia</i>	American beech	24	F	G	G	3												X			X		3	evidence of beech bark disease
	E555	<i>Fagus grandifolia</i>	American beech	19	F	G	G	3												X			X		2.4	evidence of beech bark disease
	E556	<i>Fagus grandifolia</i>	American beech	17	F	G	G	3												X			X		2.4	evidence of beech bark disease
	E557	<i>Fagus grandifolia</i>	American beech	22, 7	F	G	G	3												X			X		3	evidence of beech bark disease
	E558	<i>Fagus grandifolia</i>	American beech	38	F	G	G	3												X			X		4.8	evidence of beech bark disease
	E559	<i>Quercus rubra</i>	red oak	12	G	G	G	3												X	X				2.4	
	E560	<i>Quercus rubra</i>	red oak	61	G	G	G	3												X			X		7.8	

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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management					COMMENTS		
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits
	E561	<i>Quercus rubra</i>	red oak	47, 54	G	G	G	3											X			X		6.6
	E562	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	3											X			X		2.4
	E563	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11, 16	G	G	G	3											X			X		2.4
	E564	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12, 24	G	G	G	3											X	X		X		3
	E565	<i>Quercus rubra</i>	red oak	24, 26	G	G	G	3											X	X		X		3.6
	E566	<i>Quercus rubra</i>	red oak	42	G	G	G	4										X			X		5.4	
	E567	<i>Quercus rubra</i>	red oak	43	G	G	G	4										X			X		5.4	
	E568	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	29	G	G	G	4										X			X		3.6	
	E569	<i>Quercus rubra</i>	red oak	50, 40, 34	G	G	G	4											X			X		6
	E570	<i>Carya ovata</i>	shagbark hickory	23, 30	G	G	G	4										X			X		3.6	
	E571	<i>Ulmus americana</i>	American elm	14	G	G	G	4										X			X		2.4	
	E572	<i>Juglans nigra</i>	black walnut	14	G	G	G	4										X			X		2.4	
	E573	<i>Ulmus americana</i>	American elm	15	G	G	G	4										X			X		2.4	
	E574	<i>Ulmus americana</i>	American elm	16, 13, 15	G	G	G	4										X			X		2.4	
	E575	<i>Ulmus americana</i>	American elm	21	G	G	G	5										X			X		3	
	E576	<i>Ulmus americana</i>	American elm	15	G	G	G	4										X			X		2.4	
	E577	<i>Juglans nigra</i>	black walnut	29	G	G	G	4										X			X		3.6	
	E579	<i>Juglans nigra</i>	black walnut	12	G	G	G	4										X			X		2.4	
	E580	<i>Juglans nigra</i>	black walnut	25	G	G	G	4										X			X		3	
	E581	<i>Juglans nigra</i>	black walnut	23	G	G	G	4										X			X		3	
	E582	<i>Juglans nigra</i>	black walnut	37	G	G	G	4										X			X		4.8	
	E583	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	4										X			X		2.4	
	E584	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	42	G	G	G	4										X			X		5.4	
	E585	<i>Juglans nigra</i>	black walnut	17	G	G	G	4										X			X		2.4	
	E586	<i>Quercus rubra</i>	red oak	73	G	G	G	4										X			X		9	
	E587	<i>Quercus rubra</i>	red oak	14	G	G	G	4										X			X		2.4	
	E588	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	43	G	G	G	3										X			X		5.4	
	E589	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3										X			X		2.4	
	E590	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3										X	X				3	
	E591	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3										X			X		2.4	
	E592	<i>Fagus grandifolia</i>	American beech	18	G	G	G	4										X			X		2.4	
	E593	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28, 37	F	F	F	3										X			X		4.8	
	E594	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	27	G	G	G	4										X			X		3.6	
	E595	<i>Quercus rubra</i>	red oak	51, 54	G	G	G	5										X			X		6.6	
	E596	<i>Juglans nigra</i>	black walnut	10	G	G	G	2										X			X		2.4	
	E597	<i>Quercus rubra</i>	red oak	13	G	G	G	2										X			X		2.4	
	E598	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	2										X			X		2.4	
	E599	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	32, 10	G	G	G	3										X			X		4.2	
	E600	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11, 22	G	G	G	3										X	X				3	
	E601	<i>Prunus serotina</i>	black cherry	33	G	G	G	3										X			X		4.2	
	E602	<i>Juglans nigra</i>	black walnut	15	G	G	G	3										X			X		2.4	
	E603	<i>Ulmus americana</i>	American elm	34	G	G	G	3										X			X		4.2	
	E604	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	68	G	G	G	5										X			X		8.4	
	E605	<i>Fagus grandifolia</i>	American beech	12	G	G	G	2										X			X		2.4	
	E606	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	35	G	G	G	4										X			X		4.2	
	E607	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17, 35	G	G	G	5										X			X		4.2	
	E608	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	3										X	X				3	
	E609	<i>Prunus serotina</i>	black cherry	17	G	G	G	3										X			X		2.4	
	E610	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar																					

Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS		
					Tl	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits
*	W182	<i>Picea pungens</i>	blue spruce	17	G	G	F	2.5	20										X			X			2.4
*	W183	<i>Picea pungens</i>	blue spruce	15	G	G	F	2	20										X			X			2.4
*	W184	<i>Picea pungens</i>	blue spruce	25	G	G	F	3.5	20										X			X			3
*	W185	<i>Picea pungens</i>	blue spruce	22	G	G	F	2	20										X			X			3
*	W186	<i>Pinus nigra</i>	Austrian pine	17	G	G	F	4	20										X			X			2.4
*	W187	<i>Picea pungens</i>	blue spruce	22	G	G	F	3.5	20										X			X			3
*	W188	<i>Picea glauca</i>	white spruce	20	G	G	F	2.5	20										X			X			2.4
*	W189	<i>Pinus nigra</i>	Austrian pine	26	G	G	F	5	20										X			X			3.6
*	W190	<i>Pinus nigra</i>	Austrian pine	19	G	G	F	3	20										X			X			2.4
*	W191	<i>Picea glauca</i>	white spruce	15	G	G	F	2.5	20										X			X			2.4
*	W192	<i>Picea pungens</i>	blue spruce	12	G	G	F	2	20										X			X			2.4
*	W193	<i>Picea glauca</i>	white spruce	17	G	G	F	2	20										X			X			2.4
*	W194	<i>Picea pungens</i>	blue spruce	16	G	G	F	1.5	20										X			X			2.4
*	W195	<i>Picea glauca</i>	white spruce	13, 7	G	G	F	3.5	20										X			X			2.4
*	W196	<i>Pinus strobus</i>	white pine	15	G	G	G	4											X			X			2.4
*	W197	<i>Pinus strobus</i>	white pine	56	G	G	G	3.5											X			X			7.2 grape vine in canopy
*	W198	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	4											X			X			2.4
*	W199	<i>Acer rubrum</i>	red maple	17	G	G	G	5											X			X			2.4
*	W200	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	4											X			X			2.4
*	W201	<i>Ulmus americana</i>	American elm	12	G	G	G	4											X			X			2.4
*	W202	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	22	G	G	G	5											X			X			3
*	W203	<i>Quercus macrocarpa</i>	bur oak	14	G	G	G	3.5											X			X			2.4
*	W204	<i>Quercus macrocarpa</i>	bur oak	36	G	G	G	5											X			X			4.8
*	W205	<i>Quercus macrocarpa</i>	bur oak	18	G	G	G	2											X			X			2.4
*	W206	<i>Acer rubrum</i>	red maple	19	G	G	G	4											X			X			2.4
*	W207	<i>Quercus macrocarpa</i>	bur oak	20	G	G	G	4											X			X			2.4
*	W208	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	F	G	G	5											X			X			2.4
*	W209	<i>Acer rubrum</i>	red maple	20	G	G	G	4											X			X			2.4
*	W210	<i>Acer rubrum</i>	red maple	16	F	G	F	2											X			X			2.4
*	W211	<i>Picea pungens</i>	blue spruce	19	G	G	G	2	10										X			X			2.4
*	W212	<i>Acer rubrum</i>	red maple	17	G	G	G	2											X			X			2.4
*	W213	<i>Acer rubrum</i>	red maple	17	G	G	G	2											X			X			2.4
*	W214	<i>Acer rubrum</i>	red maple	15	G	G	G	1											X			X			2.4
*	W215	<i>Fraxinus pennsylvanica</i>	red ash	16	G	G	G	3											X			X			2.4
*	W216	<i>Picea pungens</i>	blue spruce	20	G	G	G	1.5	10										X			X			2.4
*	W217	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	4											X			X			3
*	W218	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3.5											X			X			2.4
*	W219	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3											X			X			2.4
*	W220	<i>Acer saccharinum</i>	silver maple	16	F	G	F	2.5											X			X			2.4
*	W221	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	F	F	3	10										X			X			3
*	W222	<i>Acer saccharinum</i>	silver maple	19	G	G	G	2.5											X			X			2.4
*	W223	<i>Picea pungens</i>	blue spruce	30	G	G	F	2	10										X			X			3.6
*	W224	<i>Acer platanoides</i>	Norway maple	12	G	G	G	3											X			X			2.4
*	W225	<i>Picea pungens</i>	blue spruce	13	G	G	P	2	30										X			X			2.4
*	W226	<i>Picea pungens</i>	blue spruce	20	G	G	P	2	30										X			X			2.4
*	W227	<i>Picea pungens</i>	blue spruce	17	G	G	P	1.5	30	</td															

LGL TA Number: TA8181  
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 Survey Date(s): October 26, 29, 31, and November 2, 2012, July 8, 2013  
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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS			
					T1	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits	TPZ (m)
*	W240	<i>Pinus sylvestris</i>	Scots pine	21	G	G	F	4	10										X			X			3	
*	W241	<i>Pinus sylvestris</i>	Scots pine	19	G	G	F	3	10										X			X			2.4	
*	W242	<i>Acer saccharinum</i>	silver maple	22	G	G	G	3.5												X			X			3
*	W243	<i>Ulmus americana</i>	American elm	10	G	G	G	1.5											X			X			2.4	
*	W244	<i>Pinus sylvestris</i>	Scots pine	23	G	G	G	2	10										X			X			3	
*	W245	<i>Pinus sylvestris</i>	Scots pine	13	G	G	G	2	10										X			X			2.4	
*	W246	<i>Pinus sylvestris</i>	Scots pine	14	G	G	F	2	10										X			X			2.4	
*	W247	<i>Acer saccharinum</i>	silver maple	17	G	G	G	3											X			X			2.4	
*	W248	<i>Acer saccharinum</i>	silver maple	16, 15	G	G	G	2.5		X	X								X			X			2.4	
*	W249	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	3											X			X			2.4	
*	W250	<i>Quercus macrocarpa</i>	bur oak	21	G	G	F	4	10										X			X			3	
*	W251	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3											X			X			2.4	
*	W252	<i>Picea glauca</i>	white spruce	19	G	G	F	3	10										X			X			2.4	
*	W253	<i>Picea glauca</i>	white spruce	15	G	G	F	3	10										X			X			2.4	
*	W254	<i>Quercus macrocarpa</i>	bur oak	19	G	G	G	3											X			X			2.4	
*	W255	<i>Quercus macrocarpa</i>	bur oak	10	G	G	G	2											X			X			2.4	
*	W256	<i>Quercus macrocarpa</i>	bur oak	21	G	G	G	4											X			X			3	
*	W257	<i>Pinus strobus</i>	white pine	20	G	G	F	3	10										X			X			2.4	
*	W258	<i>Pinus strobus</i>	white pine	14	G	G	F	3	10										X			X			2.4	
*	W259	<i>Pinus strobus</i>	white pine	15	G	G	F	3	10										X			X			2.4	
*	W260	<i>Pinus strobus</i>	white pine	10	G	G	F	2	10										X			X			2.4	
*	W261	<i>Quercus macrocarpa</i>	bur oak	20	G	G	G	4											X	X		X			2.4	
*	W262	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	3												X	X					3
*	W263	<i>Pinus strobus</i>	white pine	20	G	G	F	3	10										X			X			2.4	
*	W264	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	3											X			X			2.4	
*	W265	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	4											X			X			2.4	
*	W266	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	3											X			X			2.4	
*	W267	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3												X	X					2.4
*	W268	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	4												X			X			2.4
*	W269	<i>Pinus strobus</i>	white pine	12	G	G	G	2											X			X			2.4	
*	W270	<i>Pinus strobus</i>	white pine	14	G	G	F	2	10										X			X			2.4	
*	W271	<i>Pinus strobus</i>	white pine	16	G	G	F	3	10										X			X			2.4	
*	W272	<i>Pinus strobus</i>	white pine	15	G	G	F	2	10										X			X			2.4	
*	W273	<i>Pinus strobus</i>	white pine	19	G	G	F	2	10										X			X			2.4	
*	W274	<i>Pinus strobus</i>	white pine	17	G	G	F	2.5	10										X			X			2.4	
*	W275	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	3											X			X			2.4	
*	W276	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	4											X			X			2.4	
*	W277	<i>Pinus strobus</i>	white pine	17	G	G	F	2.5	10										X			X			2.4	
*	W278	<i>Pinus strobus</i>	white pine	11, 6	G	G	F	2.5	10										X			X			2.4	
*	W279	<i>Ulmus americana</i>	American elm	17	G	G	G	2											X			X			2.4	
*	W280	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	2.5											X			X			2.4	
*	W281	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	2.5												X	X					2.4
*	W282	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	5	5										X			X			2.4	
*	W283	<i>Acer platanoides</i>	Norway maple	20	G	G	G	2											X			X			2.4	
*	W284	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	4												X			X			3
*	W285	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple</																							

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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS	
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	Option 2a/2b	TPZ (m)
*	W298	<i>Quercus macrocarpa</i>	bur oak	21	G	G	G	2												X	X			3
*	W299	<i>Quercus macrocarpa</i>	bur oak	17	G	G	G	4												X	X			2.4
*	W300	<i>Quercus macrocarpa</i>	bur oak	34	G	G	G	5												X	X			4.2
*	W301	<i>Quercus macrocarpa</i>	bur oak	11	G	G	G	3												X	X			2.4
*	W302	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	4												X		X		2.4
*	W303	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	3												X		X		2.4
*	W304	<i>Ulmus pumila</i>	Siberian elm	31	G	G	G	5												X		X		4.2
*	W305	<i>Ulmus pumila</i>	Siberian elm	18	G	G	G	3												X		X		2.4
*	W306	<i>Ulmus pumila</i>	Siberian elm	18	G	G	G	3												X		X		2.4
*	W307	<i>Ulmus pumila</i>	Siberian elm	25	G	G	G	4												X		X		3
*	W308	<i>Ulmus pumila</i>	Siberian elm	18	G	G	G	2												X		X		2.4
*	W309	<i>Ulmus pumila</i>	Siberian elm	11	G	G	G	1												X		X		2.4
*	W310	<i>Ulmus pumila</i>	Siberian elm	12	G	G	G	3												X		X		2.4
*	W311	<i>Ulmus pumila</i>	Siberian elm	24, 10	G	G	G	4												X		X		3
*	W312	<i>Ulmus pumila</i>	Siberian elm	10	G	G	G	2												X		X		2.4
*	W313	<i>Ulmus pumila</i>	Siberian elm	25	G	G	G	5												X		X		3
*	W314	<i>Ulmus pumila</i>	Siberian elm	30	G	G	G	4												X		X		3.6
*	W315	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3												X		X		2.4
*	W316	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	25	G	G	G	4												X		X		3
*	W317	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3												X	X			2.4
*	W318	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13, 5, 6	G	G	G	2.5												X		X		2.4
*	W319	<i>Quercus macrocarpa</i>	bur oak	10, 6	G	G	G	2.5												X		X		2.4
*	W320	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	G	G	3												X		X		2.4
*	W321	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3												X		X		2.4
*	W322	<i>Ulmus pumila</i>	Siberian elm	25	G	G	G	3												X		X		3
*	W323	<i>Ulmus pumila</i>	Siberian elm	12, 34	G	G	G	3												X		X		4.2
*	W324	<i>Pinus strobus</i>	white pine	12	G	G	G	2.5	5											X		X		2.4
*	W325	<i>Pinus strobus</i>	white pine	10	G	G	G	1.5												X		X		2.4
*	W326	<i>Pinus strobus</i>	white pine	12	G	G	G	1.5	10											X		X		2.4
*	W327	<i>Ulmus americana</i>	American elm	15, 10	G	G	G	3												X		X		2.4
*	W328	<i>Ulmus americana</i>	American elm	22, 15, 5	G	G	G	2												X		X		3
*	W329	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	4												X	X			2.4
*	W330	<i>Acer rubrum</i>	red maple	28	G	G	G	2												X		X		3.6
*	W331	<i>Ulmus pumila</i>	Siberian elm	11	G	G	G	1.5												X	X			2.4
*	W332	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2.5												X	X			2.4
*	W333	<i>Pinus nigra</i>	Austrian pine	14	G	G	G	1												X		X		2.4
*	W334	<i>Prunus sp.</i>	cherry	11	G	G	G	2												X		X		2.4
*	W335	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	3												X		X		2.4
*	W336	<i>Ulmus pumila</i>	Siberian elm	15	G	G	G	1.5												X		X		2.4
*	W337	<i>Ulmus pumila</i>	Siberian elm	24	G	G	G	3												X		X		3
*	W338	<i>Ulmus pumila</i>	Siberian elm	13	G	G	G	3												X		X		2.4
*	W339	<i>Ulmus pumila</i>	Siberian elm	26	G	G	G	3.5												X		X		3.6
*	W340	<i>Ulmus pumila</i>	Siberian elm	14	G	G	G	3												X		X		2.4
*	W341	<i>Ulmus pumila</i>	Siberian elm	16, 56	G	G	G	4												X		X		7.2
*	W342	<i>Ulmus pumila</i>	Siberian elm	11, 12, 8	G	G	G	2												X		X		2.4
*	W343	<i>Ulmus pumila</i>	Siberian elm	43	G	G	G	3												X		X		5.4
*	W344	<i>Ulmus pumila</i>	Siberian elm	20, 9	G	G	G	3												X		X		2.4
*	W345	<i>Ulmus pumila</i>																						

Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS	
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	Option 2a/2b	TPZ (m)
*	W355	<i>Acer rubrum</i>	red maple	12	G	G	G	2											X		X			2.4
*	W356	<i>Acer rubrum</i>	red maple	22	G	G	G	3											X	X				3
*	W357	<i>Acer rubrum</i>	red maple	16	G	G	G	3											X		X			2.4
*	W358	<i>Acer rubrum</i>	red maple	11	G	G	G	2.5											X		X			2.4
*	W359	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	3.5											X		X			2.4
*	W360	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10, 6	G	G	G	2.5											X		X			2.4
*	W361	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	1											X		X			2.4
*	W362	<i>Fraxinus pennsylvanica</i>	red ash	15	G	G	G	3											X		X			2.4
*	W363	<i>Tilia americana</i>	basswood	14, 16	G	G	G	3											X		X			2.4
*	W364	<i>Ulmus americana</i>	American elm	20	G	G	G	3											X		X			2.4
*	W365	<i>Tilia americana</i>	basswood	17	G	G	G	3											X			X		2.4
*	W366	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	1.5											X		X			2.4
*	W367	<i>Prunus</i> sp.	cherry	20, 10	G	G	G	1.5		X									X		X			2.4
*	W368	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	1.5											X		X			2.4
*	W369	<i>Prunus</i> sp.	cherry	13	G	G	G	1.5											X					2.4
*	W370	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	3											X		X			2.4
*	W371	<i>Fraxinus pennsylvanica</i>	red ash	15	G	G	G	3											X		X			2.4
*	W372	<i>Quercus rubra</i>	red oak	20	G	G	G	4											X		X			2.4
*	W373	<i>Pinus nigra</i>	Austrian pine	13	G	G	G	1.5											X			X		2.4
*	W374	<i>Pinus nigra</i>	Austrian pine	12	G	G	G	1											X		X			2.4
*	W375	<i>Pinus nigra</i>	Austrian pine	14	G	G	G	1.5											X		X			2.4
*	W376	<i>Acer rubrum</i>	red maple	13	G	G	G	2.5											X		X			2.4
*	W377	<i>Quercus macrocarpa</i>	bur oak	17	G	G	G	3											X		X			2.4
*	W378	<i>Quercus macrocarpa</i>	bur oak	15	G	G	G	2.5											X		X			2.4
*	W379	<i>Quercus macrocarpa</i>	bur oak	11	G	G	G	2.5											X	X				2.4
*	W380	<i>Quercus macrocarpa</i>	bur oak	24	G	G	G	3											X		X			3
*	W381	<i>Acer rubrum</i>	red maple	15	G	G	G	3.5											X		X			2.4
*	W382	<i>Acer rubrum</i>	red maple	13	G	G	G	3											X		X			2.4
*	W383	<i>Quercus macrocarpa</i>	bur oak	15	G	G	G	3											X		X			2.4
*	W384	<i>Quercus macrocarpa</i>	bur oak	22	G	G	G	3.5											X		X			3
*	W385	<i>Quercus macrocarpa</i>	bur oak	11	G	G	G	3											X		X			2.4
*	W386	<i>Acer rubrum</i>	red maple	10	G	G	G	2.5											X		X			2.4
*	W387	<i>Acer rubrum</i>	red maple	11	G	G	G	2.5											X			X		2.4
*	W388	<i>Quercus macrocarpa</i>	bur oak	18	G	G	G	3											X		X			2.4
*	W389	<i>Tilia americana</i>	basswood	10	G	G	G	3											X		X			2.4
*	W390	<i>Tilia americana</i>	basswood	24, 12	G	G	G	5											X		X			3
*	W391	<i>Tilia americana</i>	basswood	22, 16	P	P	P	2											X		X			3
*	W392	<i>Tilia americana</i>	basswood	33	G	G	G	4											X		X			4.2
*	W393	<i>Tilia americana</i>	basswood	16	G	G	G	3											X		X			2.4
*	W394	<i>Acer rubrum</i>	red maple	10	G	G	G	1.5											X	X				2.4
*	W395	<i>Quercus rubra</i>	red oak	19	G	G	G	3.5											X		X			2.4
*	W396	<i>Tilia americana</i>	basswood	19	G	G	G	3											X		X			2.4
*	W397	<i>Tilia americana</i>	basswood	16	G	G	G	2.5											X		X			2.4
*	W398	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	1.5											X		X			2.4
*	W399	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	2.5											X		X			2.4
*	W400	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	23	G	G	G	4											X		X			3
*	W401	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3.5											X		X			2.4
*	W402	<i>Acer rubrum</i>	red maple	12	G	G	G																	

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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS		
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	Option 2		Option 2a/2b			
																	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits			
*	W413	<i>Acer rubrum</i>	red maple	10	G	G	G	2										X			X	2.4			
*	W414	<i>Pinus strobus</i>	white pine	18	G	G	G	2.5										X			X	2.4			
*	W415	<i>Pinus strobus</i>	white pine	22	G	G	G	3.5										X			X	3			
*	W416	<i>Pinus strobus</i>	white pine	14	G	G	G	2.5										X			X	2.4			
*	W417	<i>Pinus strobus</i>	white pine	17	G	G	G	3										X			X	2.4			
*	W418	<i>Pinus strobus</i>	white pine	22	F	G	G	3										X			X	3			
*	W419	<i>Pinus strobus</i>	white pine	17	G	G	G	2										X			X	2.4			
*	W420	<i>Tilia americana</i>	basswood	11, 6, 12	G	G	G	1.5										X			X	2.4			
*	W421	<i>Quercus rubra</i>	red oak	20	G	G	G	3										X			X	2.4			
*	W422	<i>Quercus rubra</i>	red oak	23, 6	G	G	G	3										X			X	3			
*	W423	<i>Quercus macrocarpa</i>	bur oak	10	G	G	G	2.5										X			X	2.4			
*	W424	<i>Fraxinus pennsylvanica</i>	red ash	12	P	P	P	1.5										X			X	2.4			
*	W425	<i>Acer rubrum</i>	red maple	18	G	G	G	2.5										X			X	2.4			
*	W426	<i>Quercus macrocarpa</i>	bur oak	15	G	G	G	1.5										X			X	2.4			
*	W427	<i>Quercus macrocarpa</i>	bur oak	22	G	G	G	2										X			X	3			
*	W428	<i>Acer rubrum</i>	red maple	11	G	G	G	2.5										X			X	2.4			
*	W429	<i>Fraxinus pennsylvanica</i>	red ash	12,4	P	P	P	2.5						X				X			X	2.4	Possible emerald ash borer		
*	W430	<i>Fraxinus pennsylvanica</i>	red ash	13	G	G	G	2.5										X			X	2.4			
*	W431	<i>Acer rubrum</i>	red maple	12	G	G	G	2										X			X	2.4			
*	W432	<i>Acer rubrum</i>	red maple	11	G	G	G	1.5										X			X	2.4	Pruned		
*	W433	<i>Acer rubrum</i>	red maple	18	G	G	G	2										X			X	2.4			
*	W434	<i>Quercus macrocarpa</i>	bur oak	14	G	G	F	2.5	30									X			X	2.4			
*	W435	<i>Quercus macrocarpa</i>	bur oak	15	G	G	F	1.5	10									X	X		X	2.4			
*	W436	<i>Fagus grandifolia</i>	American beech	12,6	G	G	G	1.5										X			X	2.4			
*	W437	<i>Fagus grandifolia</i>	American beech	10	G	G	G	2										X			X	2.4			
*	W438	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	2.5										X			X	3.6			
*	W439	<i>Fagus grandifolia</i>	American beech	12,18,2, 6	G	G	G	3						X				X			X	3.6	BBD		
*	W440	<i>Picea glauca</i>	white spruce	13	G	G	G	3	10									X	X		X	2.4			
*	W441	<i>Picea glauca</i>	white spruce	16	G	G	F	3	10									X			X	2.4	Spruce gull		
*	W442	<i>Picea glauca</i>	white spruce	14	G	G	F	2	10									X			X	2.4	Spruce gull		
*	W443	<i>Acer platanoides</i>	Norway maple	13	G	G	G	2.5				L-S						X	X		X	2.4			
*	W444	<i>Fraxinus pennsylvanica</i>	red ash	10	G	G	G	2										X			X	2.4			
*	W445	<i>Quercus rubra</i>	red oak	12	G	G	G	2.5										X			X	2.4			
*	W446	<i>Picea glauca</i>	white spruce	13,6	G	G	G	2										X			X	2.4			
*	W447	<i>Quercus rubra</i>	red oak	25	G	G	G	3.5										X			X	3			
*	W448	<i>Acer negundo</i>	Manitoba maple	17	G	G	G	2										X			X	2.4			
*	W449	<i>Quercus rubra</i>	red oak	22	G	G	G	4	10									X			X	3			
*	W450	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	23	G	G	G	3										X			X	3			
*	W451	<i>Tilia americana</i>	basswood	30	G	G	G	2										X			X	3.6			
*	W452	<i>Quercus rubra</i>	red oak	17	G	G	G	3.5										X			X	2.4			
*	W453	<i>Quercus rubra</i>	red oak	23	G	G	G	4	10									X			X	3			
*	W454	<i>Quercus rubra</i>	red oak	24	G	G	G	4										X			X	3			
*	W455	<i>Ostrya virginiana</i>	ironwood	11,13	G	P	P	2.5										X			X	2.4			
*	W456	<i>Tilia americana</i>	basswood	19	G	G	G	2.5										X			X	2.4			
*	W457	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	2.5										X			X	2.4			
*	W458	<i>Quercus rubra</i>	red oak	10	G	G	G	3										X</							

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Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management					COMMENTS				
					TI	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits	TPZ (m)
*	W470	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	3											X			X		2.4		
*	W471	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	23	G	G	G	4											X			X		3		
*	W472	<i>Quercus rubra</i>	red oak	42	G	G	G	5												X			X		5.4	
*	W473	<i>Carya ovata</i>	shagbark hickory	15	G	G	G	2.5											X			X		2.4		
*	W474	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	2.5												X			X		3	
*	W475	<i>Picea glauca</i>	white spruce	22	G	G	G	2	10										X			X		3		
*	W476	<i>Picea glauca</i>	white spruce	15	G	G	G	1.5	10										X			X		2.4		
*	W477	<i>Picea glauca</i>	white spruce	22	G	G	G	2	10									X			X		3			
*	W478	<i>Fraxinus pennsylvanica</i>	red ash	14	G	G	G	1.5											X			X		2.4		
*	W479	<i>Quercus rubra</i>	red oak	24	G	G	G	3											X					3		
*	W480	<i>Picea glauca</i>	white spruce	12	G	G	F	2	10									X			X		2.4			
*	W481	<i>Picea glauca</i>	white spruce	15	G	G	F	2	10									X			X		2.4			
*	W482	<i>Picea glauca</i>	white spruce	10,11	G	G	F	1.5	10										X			X		2.4		
*	W483	<i>Fraxinus americana</i>	white ash	22	P	P	P	2											X			X		3		
*	W484	<i>Prunus</i> sp.	cherry	11	G	G	G	1.5											X			X		2.4		
*	W485	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	2.5											X			X		2.4		
*	W486	<i>Quercus rubra</i>	red oak	19	G	G	G	3											X			X		2.4		
*	W487	<i>Quercus rubra</i>	red oak	13	G	G	G	3											X			X		2.4		
*	W488	<i>Quercus rubra</i>	red oak	10	G	G	G	2.5											X			X		2.4		
*	W489	<i>Ulmus americana</i>	American elm	44	G	G	G	6											X					5.4		
*	W490	<i>Quercus rubra</i>	red oak	44	G	G	G	6											X			X		5.4		
*	W491	<i>Quercus rubra</i>	red oak	52	G	G	G	5											X			X		6.6		
*	W492	<i>Fraxinus pennsylvanica</i>	red ash	10	G	G	G	2.5											X			X		2.4		
*	W493	<i>Quercus rubra</i>	red oak	31	G	G	G	3											X			X		4.2		
*	W494	<i>Quercus rubra</i>	red oak	19	G	G	G	3											X			X		2.4		
*	W495	<i>Quercus rubra</i>	red oak	31	F	G	G	5											X			X		4.2		
*	W496	<i>Quercus rubra</i>	red oak	29	G	G	G	4											X			X		3.6		
*	W497	<i>Quercus rubra</i>	red oak	18	G	G	F	1.5	10											X			X		2.4	
*	W498	<i>Picea glauca</i>	white spruce	15	G	G	G	1.5											X			X		2.4		
*	W499	<i>Picea glauca</i>	white spruce	20	G	G	F	2	10										X			X		2.4		
*	W500	<i>Picea glauca</i>	white spruce	11	G	G	F	1.5	10										X			X		2.4		
W501		<i>Fraxinus pennsylvanica</i>	red ash	13	G	G	G	3												X			X		2.4	
W502		<i>Fraxinus pennsylvanica</i>	red ash	25	G	G	G	4											X			X		2.4		
W503		<i>Fraxinus pennsylvanica</i>	red ash	12	G	G	G	2											X			X		2.4		
W504		<i>Quercus rubra</i>	red oak	11	G	G	G	3											X			X		3		
W505		<i>Fraxinus pennsylvanica</i>	red ash	19	G	G	G	3											X			X		2.4		
W506		<i>Fraxinus pennsylvanica</i>	red ash	18	G	G	G	3											X			X		2.4		
W507		<i>Picea glauca</i>	white spruce	16	G	G	G	3												X			X		3	
W508		<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	3											X			X		3		
W509		<i>Picea glauca</i>	white spruce	12	G	G	G	3											X			X		2.4		
W510		<i>Fraxinus pennsylvanica</i>	red ash	12	G	G	G	3											X			X		3		
W511		<i>Fraxinus pennsylvanica</i>	red ash	14	G	G	G	3					L, E					X			X		3			
W512		<i>Prunus serotina</i>	black cherry	19	G	G	G	3												X			X		2.4	
W513		<i>Quercus rubra</i>	red oak	16, 49	G	G	G	4												X			X		3	
W515		<i>Tilia americana</i>	basswood	16, 37,	24	G	G	G	6											X			X		4.8	multistem
*	W801	<i>Picea glauca</i>	white spruce	14	G	G	F	2.5	10											X			X		2.4	
*	W802	<i>Picea glauca</i>	white spruce	13	G	G	F	2	10										X			X		2.4		
*	W803	<i>Picea glauca</i>	white spruce	11	G	G	F	1.5	10										X			X		2.4		
*	W804	<i>Fraxinus pennsylvanica</i>	red ash	20	G	G	G	2											X					2.4		
*	W805	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10, 8, 7	G	G	G	2.5											X			X		2.4		
*	W806	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	2.5										X			X		3.6			
*	W807	<i>Quercus macrocarpa</i>	bur oak	13	G	G	G	2											X			X		2.4		
*	W808	<i>Catalpa</i> sp.	catalpa	17	G	G	G	2											X			X		2.4		
*	W809	<i>Quercus macrocarpa</i>	bur oak	28	G	G	G	4.5												X			X		3.6	
*	W810	<i>Quercus rubra</i>	red oak	32	G	G	G	5											X			X		4.2		
*	W811	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	23	F	G	G	4											X			X		3		
*	W812	<i>Fraxinus pennsylvanica</i>	red ash	40	G	G	G	3.5											X			X		4.8		
*	W813	<i>Quercus macrocarpa</i>	bur oak	19	G	G	G	2.5											X			X		2.4		

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					Tl	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits
*	W814	<i>Quercus rubra</i>	red oak	20	G	G	G	4.5											X		X		X	2.4	
*	W815	<i>Quercus rubra</i>	red oak	18	G	G	G	3												X		X		X	2.4
*	W816	<i>Quercus rubra</i>	red oak	30	G	G	G	4												X		X			3.6
*	W817	<i>Fraxinus americana</i>	white ash	38	G	G	G	3.5												X		X		X	4.8
*	W818	<i>Fraxinus americana</i>	white ash	29	G	G	G	4												X		X		X	3.6
*	W819	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	25	G	G	G	3.5											X		X		X	3	
*	W820	<i>Tilia americana</i>	basswood	20, 28	G	G	G	3											X		X		X	3.6	
*	W821	<i>Acer saccharinum</i>	silver maple	52	G	G	G	5			L, S								X				X	6.6	
*	W822	<i>Picea glauca</i>	white spruce	16	G	G	G	3.5	10											X	X				2.4
*	W823	<i>Acer platanoides</i>	Norway maple	23	G	G	G	3.5											X	X			X	3	
*	W824	<i>Picea glauca</i>	white spruce	12	G	G	G	1.5											X		X			2.4	
*	W825	<i>Picea pungens</i>	blue spruce	21	G	G	G	3	10										X		X		X	3	
*	W826	<i>Picea glauca</i>	white spruce	14	G	G	G	2.5											X		X		X	2.4	
*	W827	<i>Acer platanoides</i>	Norway maple	24	G	G	G	3.5											X		X		X	3	
*	W828	<i>Acer platanoides</i>	Norway maple	23	G	G	G	3											X		X		X	3	
*	W829	<i>Picea glauca</i>	white spruce	10	G	G	G	1											X		X			2.4	
*	W830	<i>Picea glauca</i>	white spruce	13	P	P	P	1.5	95										X		X			2.4	
*	W831	<i>Picea glauca</i>	white spruce	16	G	G	G	1.5										X		X		X	2.4		
*	W832	<i>Picea glauca</i>	white spruce	11	G	G	G	1.5										X		X		X	2.4		
*	W833	<i>Picea glauca</i>	white spruce	12, 6, 6	G	G	G	1.5										X		X			2.4		
*	W834	<i>Acer platanoides</i>	Norway maple	30	G	G	G	3.5										X		X			3.6		
*	W835	<i>Acer platanoides</i>	Norway maple	30	G	G	G	3.5										X		X			3.6		
*	W836	<i>Acer platanoides</i>	Norway maple	33	G	G	G	3.5										X		X			4.2		
*	W837	<i>Acer platanoides</i>	Norway maple	33	G	G	G	4										X		X			4.2		
*	W838	<i>Acer platanoides</i>	Norway maple	24	G	G	G	4										X		X			3		
*	W839	<i>Picea glauca</i>	white spruce	11	G	G	G	1.5										X		X			2.4		
*	W840	<i>Picea glauca</i>	white spruce	14	G	G	G	2	5									X		X			2.4		
*	W841	<i>Picea glauca</i>	white spruce	17	G	G	G	2	5									X		X			2.4		
*	W842	<i>Acer platanoides</i>	Norway maple	32	G	G	G	5											X	X				4.2	
*	W843	Malus sp.	apple	12	G	G	G	2.5										X		X			2.4		
W844	Gleditsia triacanthos	honey locust	13	G	G	G	2.5												X	X				2.4	
W845	Gleditsia triacanthos	honey locust	11	G	G	G	2												X	X				2.4	
W846	Gleditsia triacanthos	honey locust	15	G	G	G	3												X	X				2.4	
W847	Gleditsia triacanthos	honey locust	10	G	G	G	2												X	X				2.4	
W848	Gleditsia triacanthos	honey locust	16	G	G	G	3												X	X				2.4	
W849	Gleditsia triacanthos	honey locust	12	G	G	G	3												X	X				2.4	
*	W851	<i>Picea glauca</i>	white spruce	17	G	G	G	3											X		X			2.4	
*	W852	<i>Picea pungens</i>	blue spruce	18	G	G	G	2											X		X			2.4	
*	W853	<i>Pinus nigra</i>	Austrian pine	18	G	G	G	2.5											X		X			2.4	
*	W854	<i>Pinus nigra</i>	Austrian pine	15	G	G	G	2.5											X		X			2.4	
*	W855	<i>Picea glauca</i>	white spruce	15	G	G	F	2	10										X		X			2.4	
*	W856	<i>Pinus nigra</i>	Austrian pine	14	G	G	G	2.5	5										X		X			2.4	
*	W857	<i>Picea glauca</i>	white spruce	15	G	G	G	2	5										X		X			2.4	
*	W858	<i>Picea pungens</i>	blue spruce	26	G	G	G	2.5	5										X		X			3.6	
*	W859	<i>Picea glauca</i>	white spruce	6, 13	G	G	G	2											X		X			2.4	
*	W860	<i>Pinus nigra</i>	Austrian pine	16	G	G	F	2.5	10										X		X			2.4	
*	W861	<i>Picea glauca</i>	white spruce	15	G	G	F	3.5	10										X		X			2.4	
*	W862	<i>Pinus nigra</i>	Austrian pine	14	G	G	G	3											X		X			2.4	
*	W863	<i>Pinus nigra</i>	Austrian pine	20	G	G	G	3											X		X			2.4	
*	W864	<i>Picea glauca</i>	white spruce	18	G	G	G	3											X		X			2.4	
*	W865	<i>Picea glauca</i>	white spruce	13	G	G	G	2.5	10										X		X			2.4	
*	W866	<i>Pinus nigra</i>	Austrian pine	18	G	G	G	2.5	5										X		X			2.4	
*	W867	<i>Acer platanoides</i>	Norway maple	27	G	G	G	4											X					3.6	
*	W868	<i>Picea pungens</i>	blue spruce	13	G	G	F	1.5	10										X		X			2.4	
*	W869	<i>Picea pungens</i>	blue spruce	10	G	G	G	1.5	5										X		X			2.4	
*	W870	<i>Acer platanoides</i>	Norway maple	24	G	G	G	3											X		X			3	
*	W871	<i>Picea pungens</i>	blue spruce	10	G	G	G	2	5										X				X	2.4	
*	W872	<i>Picea pungens</i>	blue spruce	10	G	G	G	2											X				X	2.4	

Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management					COMMENTS			
					T1	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits
*	W873	<i>Acer platanoides</i>	Norway maple	21	G	G	G	3											X				X	3	
*	W874	<i>Picea pungens</i>	blue spruce	10	G	G	G	2											X				X	2.4	
*	W875	<i>Acer platanoides</i>	Norway maple	21	G	G	G	3											X				X	3	
*	W876	<i>Pinus nigra</i>	Austrian pine	10	G	G	G	1.5											X				X	2.4	
*	W877	<i>Acer platanoides</i>	Norway maple	17, 10, 11, 12	G	G	G	2.5											X				X	2.4	
*	W878	<i>Acer platanoides</i>	Norway maple	24	G	G	G	3											X				X	3	
*	W879	<i>Pinus nigra</i>	Austrian pine	10	G	G	G	2											X				X	2.4	
*	W880	<i>Pinus nigra</i>	Austrian pine	18	G	G	G	2.5											X				X	2.4	
*	W881	<i>Acer platanoides</i>	Norway maple	29	G	G	G	3											X				X	3.6	
*	W882	<i>Acer platanoides</i>	Norway maple	25	G	G	G	3.5											X				X	3	exposed roots
*	W883	<i>Picea pungens</i>	blue spruce	13	G	G	G	2.5											X				X	2.4	
*	W884	<i>Picea pungens</i>	blue spruce	11	G	G	G	2											X				X	2.4	
*	W885	<i>Acer platanoides</i>	Norway maple	29	G	G	G	3											X				X	3.6	
*	W886	<i>Picea glauca</i>	white spruce	13	G	G	G	2.5	5										X				X	2.4	
*	W887	<i>Picea pungens</i>	blue spruce	15	G	G	G	1.5											X				X	2.4	
*	W888	<i>Acer platanoides</i>	Norway maple	27	G	G	G	2.5											X				X	3.6	
*	W889	<i>Picea glauca</i>	white spruce	12	G	G	G	1.5											X				X	2.4	
*	W890	<i>Picea pungens</i>	blue spruce	17	G	G	G	2											X				X	2.4	
*	W891	<i>Acer platanoides</i>	Norway maple	25	G	G	G	3.5											X				X	3	
*	W892	<i>Picea pungens</i>	blue spruce	14	G	G	G	2											X				X	2.4	
*	W893	<i>Picea pungens</i>	blue spruce	13	G	G	F	2	10										X				X	2.4	
*	W894	<i>Acer platanoides</i>	Norway maple	25	G	G	G	2.5											X				X	3	
*	W895	<i>Picea glauca</i>	white spruce	11	G	G	G	1.5	10										X				X	2.4	
*	W896	<i>Picea glauca</i>	white spruce	17	G	G	G	2											X				X	2.4	
*	W897	<i>Acer platanoides</i>	Norway maple	27	G	G	G	2.5											X				X	3.6	
*	W898	<i>Picea glauca</i>	white spruce	12	G	G	G	2											X				X	2.4	
*	W899	<i>Pinus nigra</i>	Austrian pine	14	G	G	G	2											X				X	2.4	
*	W900	<i>Picea pungens</i>	blue spruce	14	G	G	G	2											X				X	2.4	
*	W901	<i>Acer platanoides</i>	Norway maple	26	G	G	G	3											X				X	3.6	exposed roots
*	W902	<i>Picea glauca</i>	white spruce	16	G	G	G	2.5	5										X				X	2.4	
*	W903	<i>Acer platanoides</i>	Norway maple	27	G	G	G	3											X				X	3.6	
*	W904	<i>Acer platanoides</i>	Norway maple	27	G	G	G	4.5											X				X	3.6	exposed roots
*	W905	<i>Pinus nigra</i>	Austrian pine	13	G	G	G	2											X				X	2.4	
*	W906	<i>Picea pungens</i>	blue spruce	15	G	G	G	1.5											X				X	2.4	
*	W907	<i>Acer platanoides</i>	Norway maple	23	G	G	G	4											X				X	3	
*	W908	<i>Acer platanoides</i>	Norway maple	28	G	G	G	3											X				X	3.6	
*	W909	<i>Picea pungens</i>	blue spruce	14	G	G	G	1.5											X				X	2.4	
*	W910	<i>Pinus nigra</i>	Austrian pine	14	G	G	G	2.5											X				X	2.4	
*	W911	<i>Picea pungens</i>	blue spruce	14	G	G	G	2											X				X	2.4	
*	W912	<i>Acer platanoides</i>	Norway maple	24	G	G	G	3											X				X	3	
*	W913	<i>Picea glauca</i>	white spruce	17	G	G	G	1.5	5										X				X	2.4	
*	W914	<i>Picea pungens</i>	blue spruce	19	G	G	G	2	10										X				X	2.4	
*	W915	<i>Acer platanoides</i>	Norway maple	26	G	G	G	3											X				X	3.6	
*	W916	<i>Picea glauca</i>	white spruce	11	G	G	G	1.5											X				X	2.4	
*	W917	<i>Pinus nigra</i>	Austrian pine	12	G	G	G	1											X				X	2.4	
*	W918	<i>Picea pungens</i>	blue spruce	15	G	G	G	2.5											X				X	2.4	
*	W919	<i>A</i>																							

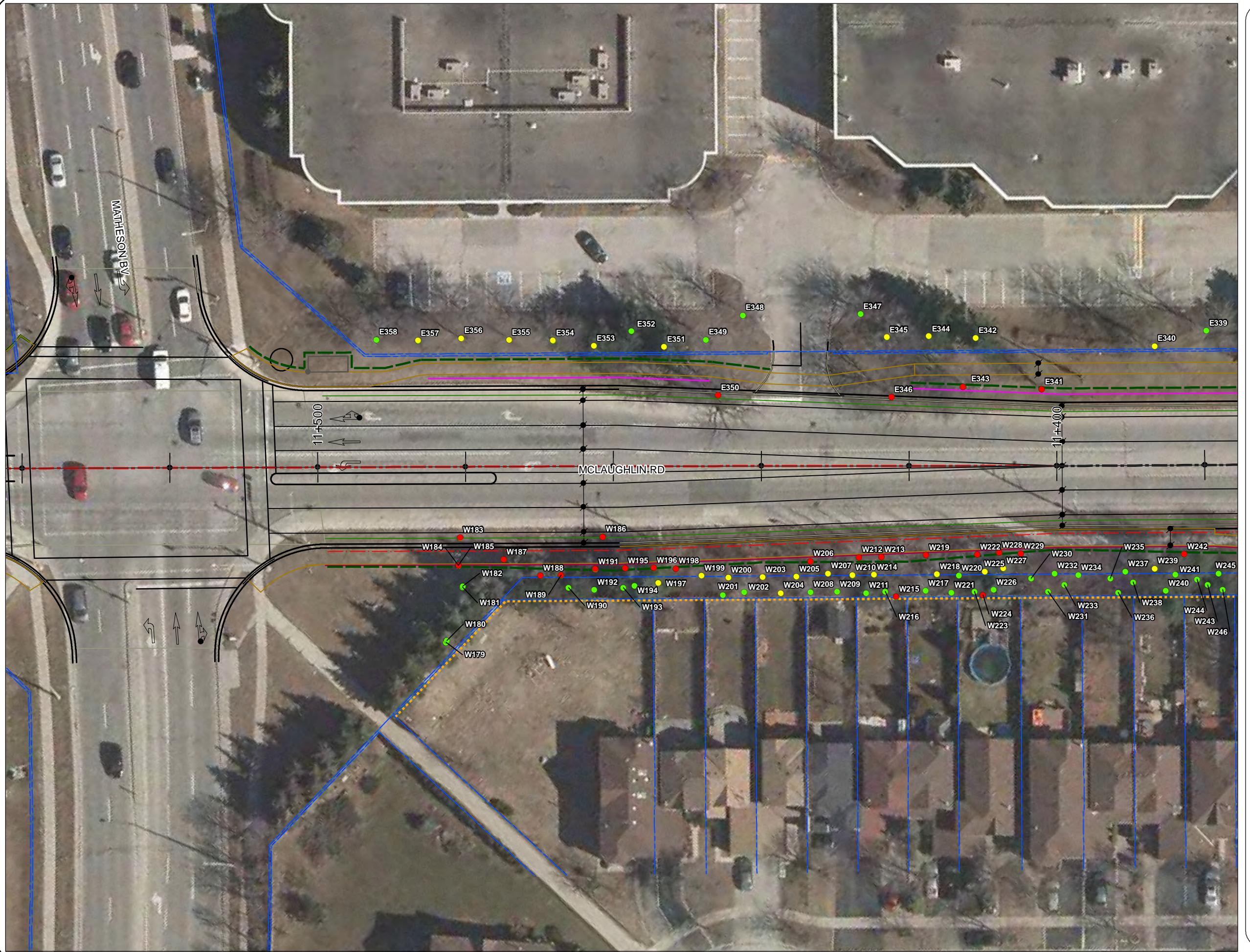
Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS		
					T1	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits
*	W931	<i>Acer platanoides</i>	Norway maple	25	G	G	G	3											X			X			3
*	W932	<i>Pinus nigra</i>	Austrian pine	12	G	G	G	1.5											X			X			2.4
*	W933	<i>Quercus rubra</i>	red oak	22	G	G	G	3											X			X			3
*	W934	<i>Quercus rubra</i>	red oak	24	G	G	G	4											X			X			3
*	W935	<i>Pinus nigra</i>	Austrian pine	16	G	G	G	2											X			X			2.4
*	W936	<i>Quercus rubra</i>	red oak	18	G	G	G	3											X			X			2.4
*	W937	<i>Quercus rubra</i>	red oak	16,19	G	G	G	2.5		X	X								X			X			2.4
*	W938	<i>Quercus rubra</i>	red oak	21	G	G	G	3.5											X			X			3
*	W939	<i>Quercus rubra</i>	red oak	21	G	G	G	3.5											X			X			3
*	W940	<i>Quercus rubra</i>	red oak	25	G	G	G	3											X			X			3
*	W941	<i>Quercus rubra</i>	red oak	26	G	G	G	4											X			X			3.6
*	W942	<i>Quercus rubra</i>	red oak	32	G	G	G	3											X			X			4.2
*	W943	<i>Quercus rubra</i>	red oak	16	G	G	G	2.5											X			X			2.4
*	W944	<i>Quercus rubra</i>	red oak	13	G	G	G	2.5											X			X			2.4
*	W945	<i>Quercus rubra</i>	red oak	16	G	G	G	2.5											X			X			2.4
*	W946	<i>Quercus rubra</i>	red oak	22	G	G	G	3											X			X			3
*	W947	<i>Quercus rubra</i>	red oak	18	G	G	G	3.5											X			X			2.4
*	W948	<i>Fraxinus pennsylvanica</i>	red ash	24	G	G	G	2.5											X			X			3
*	W949	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	2											X			X			2.4
*	W950	<i>Fagus grandifolia</i>	American beech	10	G	G	G	3											X			X			2.4
*	W951	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	2.5											X			X			2.4
*	W952	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	37	G	G	G	5.5											X			X			4.8
*	W953	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	28	G	G	G	4											X			X			3.6
*	W954	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	37	G	G	G	4.5											X			X			4.8
*	W955	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	29	G	G	G	3											X			X			3.6
*	W956	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	30	G	G	G	3											X			X			3.6
*	W957	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	25	G	G	G	3											X			X			3
*	W958	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	20	G	P	P	2											X			X			2.4
*	W959	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	32	G	G	G	3											X			X			4.2
*	W960	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	31	G	G	G	3.5											X			X			4.2
*	W961	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	35	G	F	F	3.5											X			X			4.2
*	W962	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	18	G	G	G	3											X			X			2.4
*	W963	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	4											X			X			2.4
*	W964	<i>Quercus rubra</i>	red oak	70	G	G	G	8											X			X			8.4
*	W965	<i>Quercus rubra</i>	red oak	64	G	G	G	7											X			X			7.8
*	W966	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	26	G	G	G	2.5											X			X			3.6
*	W967	<i>Quercus rubra</i>	red oak	72	G	G	G	7											X			X			9
*	W968	<i>Quercus rubra</i>	red oak	59	G	F	F	7	10										X			X			7.2
*	W969	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	21	G	G	G	3											X			X			3
*	W970	<i>Fraxinus americana</i>	white ash	46	G	G	G	3.5											X			X			6
*	W971	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	29	G	G	G	3											X			X			3.6
*	W972	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	24	G	G	G	2.5											X			X			3
*	W973	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	P	P	P	3	75										X			X			2.4
*	W974	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	3											X			X			2.4
*	W975	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	16	G	G	G	2.5											X			X			2.4

LGL TA Number: TA8181  
 Study Area: McLaughlin Road  
 Client: IBI  
 Survey Date(s): October 26, 29, 31, and November 2, 2012, July 8, 2013  
 Collectors: LMC, SLL, DCS



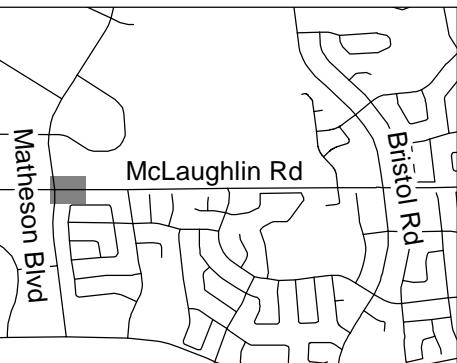
Trees Tagged by LGL	TREE ID#	Scientific Name	Common Name	DBH (cm)	CONDITION												Management						COMMENTS		
					Tl	CS	CV	Radial Dripine (m)	CDB (%)	Co-dominant stem	Included Bark	Lean, Dir.	Fungus	Insects	Cavity	Rot	Wound	Frost Crack	EAB	No Impact	Tree Within Grading Limits	TPZ Within Grading Limits	No Impact	Tree Within Grading Limits	TPZ within Grading Limits
*	W989	<i>Acer rubrum</i>	red maple	19	G	G	G	2.5											X			X		2.4	
*	W990	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	2											X			X		2.4	girdled
*	W991	<i>Picea pungens</i>	blue spruce	12	G	G	G	1.5											X			X		2.4	
*	W992	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	1.5										X			X		2.4		
*	W993	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	2										X			X		2.4	girdled	
*	W994	<i>Picea pungens</i>	blue spruce	17	G	G	G	1.5										X			X		2.4		
*	W995	<i>Picea pungens</i>	blue spruce	16	G	G	G	2.5										X			X		2.4		
*	W996	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	15	G	G	G	1										X			X		2.4	girdled	
*	W997	<i>Picea pungens</i>	blue spruce	16	G	G	G	1.5										X			X		2.4		
*	W998	<i>Picea pungens</i>	blue spruce	13	G	G	G	2										X			X		2.4		
*	W999	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	1.5										X			X		2.4	girdled	
*	W1000	<i>Picea pungens</i>	blue spruce	12	G	G	G	1.5	5									X			X		2.4		
*	W1821	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	12	G	G	G	1.5										X			X		2.4		
*	W1820	<i>Picea pungens</i>	blue spruce	10	G	G	G	1	5									X			X		2.4		
*	W1813	<i>Picea glauca</i>	white spruce	14	G	G	G	1.5										X			X		2.4		
*	W1831	<i>Picea pungens</i>	blue spruce	12	G	G	G	1										X			X		2.4		
*	W1810	<i>Picea pungens</i>	blue spruce	15	G	G	G	1.5										X			X		2.4		
*	W1811	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	14	G	G	G	1.5										X			X		2.4		
*	W1692	<i>Picea pungens</i>	blue spruce	18	G	G	G	1.5										X			X		2.4		
*	W1833	<i>Picea pungens</i>	blue spruce	10	G	G	G	1										X			X		2.4		
*	W1834	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	13	G	G	G	1										X			X		2.4		
*	W1836	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	19	G	G	G	3										X			X		2.4		
*	W1824	<i>Tilia americana</i>	basswood	9,18,15, 24,7	G	F	F	3	20										X			X		3	
*	W1823	<i>Quercus rubra</i>	red oak	50	G	F	F	4	15									X			X		6		
*	W1691	<i>Quercus rubra</i>	red oak	57	G	G	G	5	5									X			X		7.2		
*	W1690	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	10	G	G	G	1										X			X		2.4		
*	W1828	<i>Picea pungens</i>	blue spruce	13	G	G	G	1.5										X			X		2.4		
*	W1826	<i>Picea pungens</i>	blue spruce	14	G	G	G	1	5									X			X		2.4		
*	W1825	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	1.5										X			X		2.4		
*	W1812	<i>Quercus rubra</i>	red oak	31,30	G	G	G	5										X			X		4.2	multistem	
*	W1822	<i>Picea pungens</i>	blue spruce	12	G	G	G	1										X			X		2.4		
*	W1827	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	11	G	G	G	1.5										X			X		2.4		
*	W1689	<i>Picea pungens</i>	blue spruce	16	G	G	G	1.5										X			X		2.4		
*	W1816	<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	17	G	G	G	2										X			X		2.4	girdled	
*	W1688	<i>Carya ovata</i>	shagbark hickory	22,28	G	G	G	4										X			X		3.6	pruned	

**APPENDIX B**  
**TREE REMOVAL FIGURES OPTION 2**



#### LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ### Tree Identifier



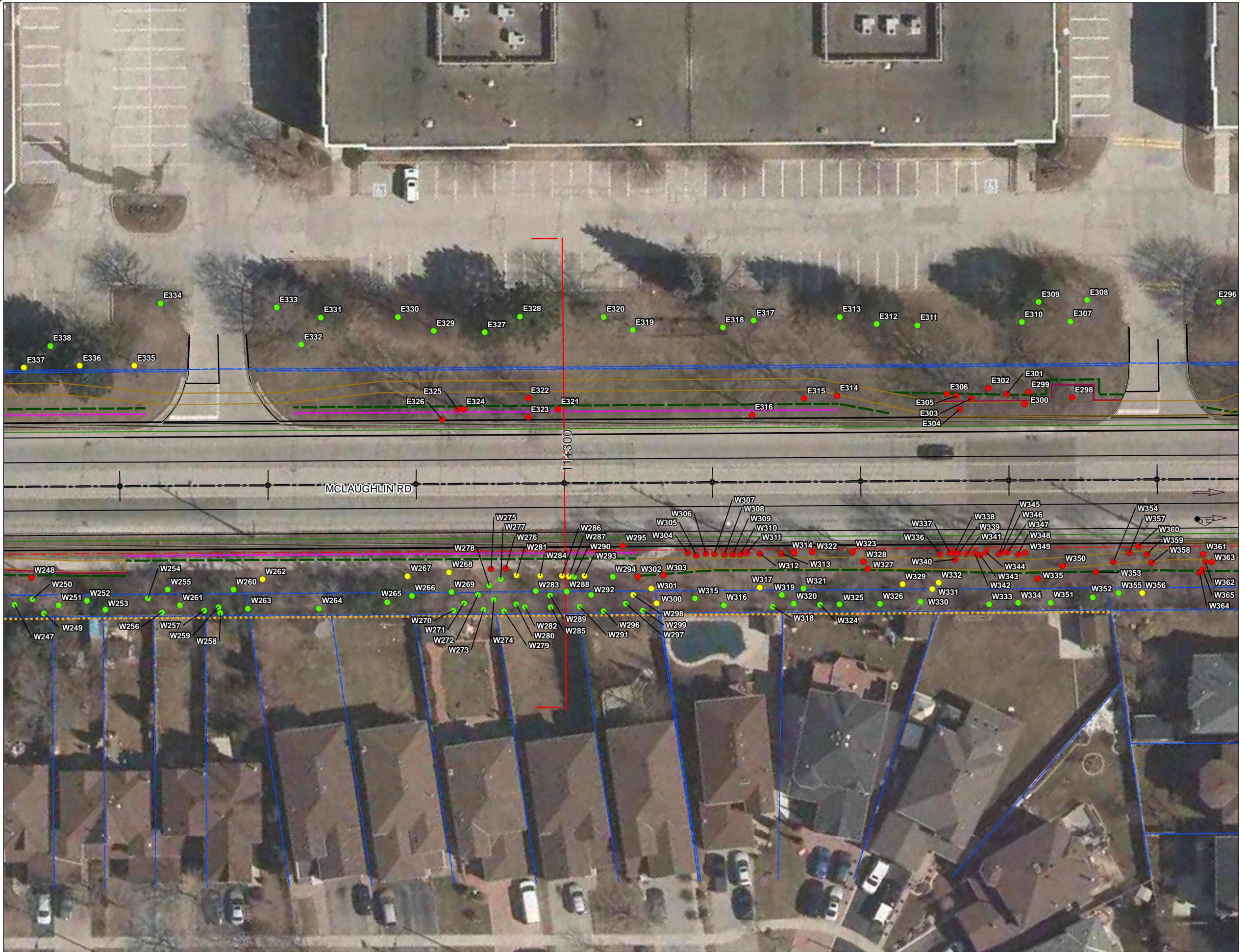
Data Source: LGL Limited field surveys.

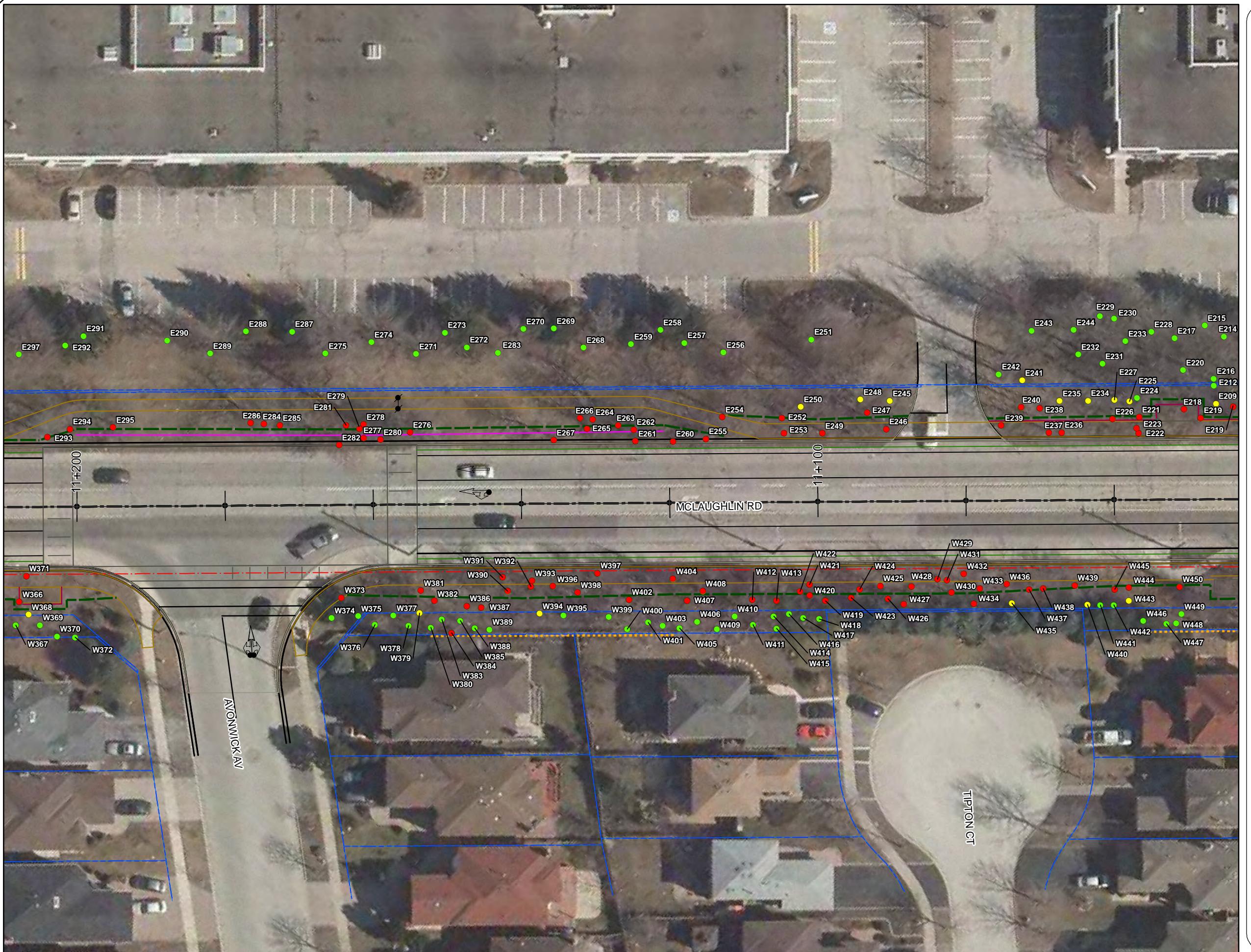
10 5 0 10 Metres

#### MCLAUGHLIN ROAD TREE INVENTORY



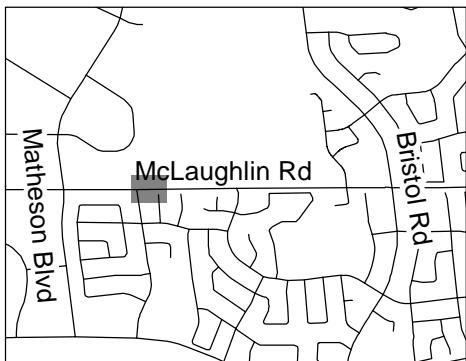
Project: TA8181	Figure: 1A
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC





#### LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



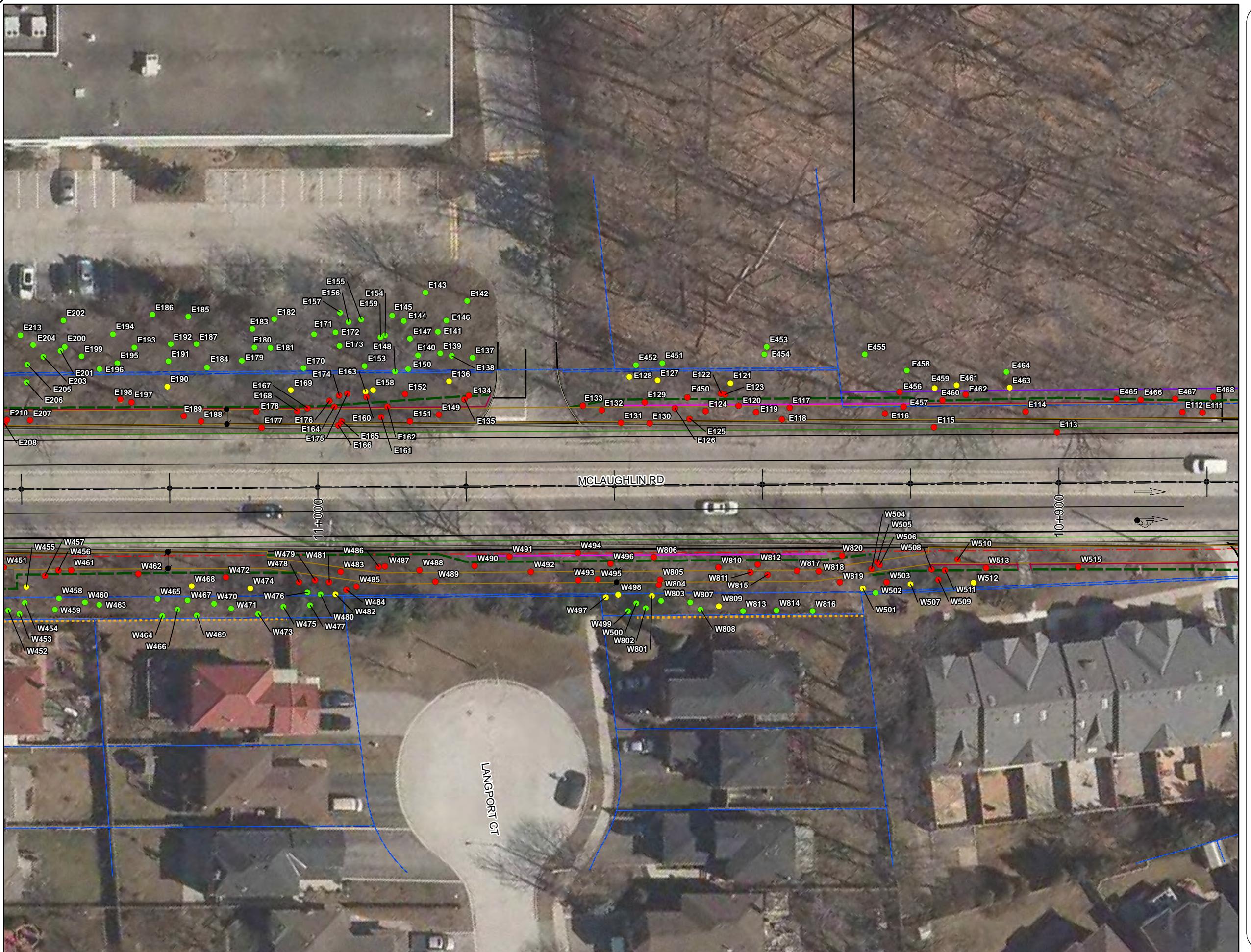
Data Source: LGL Limited field surveys.

10 5 0 10 Metres

#### MCLAUGHLIN ROAD TREE INVENTORY

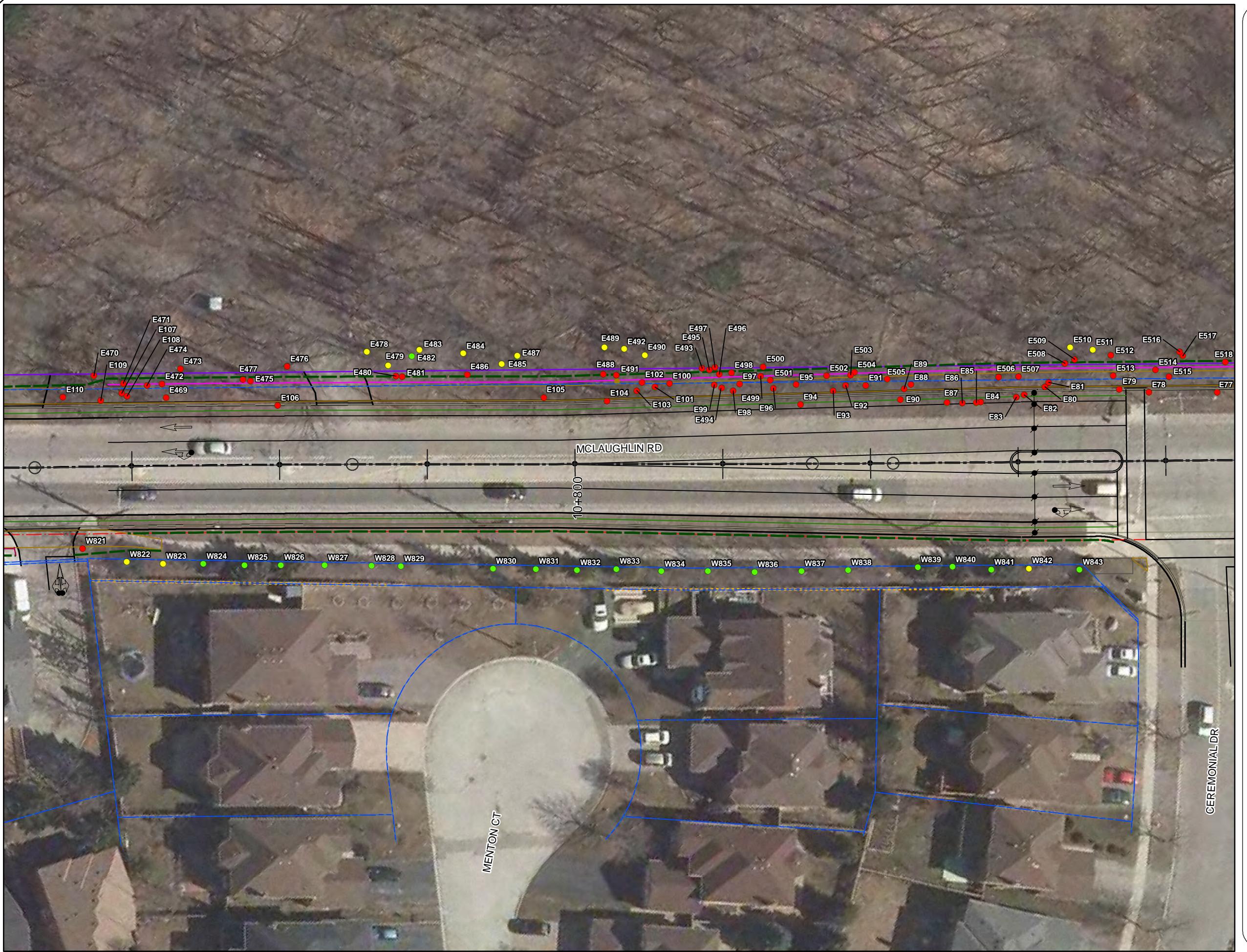


Project: TA8181	Figure: 1C
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



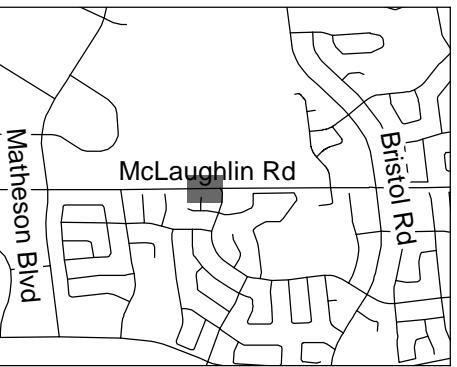
MCLAUGHLIN ROAD  
TREE INVENTORY





LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



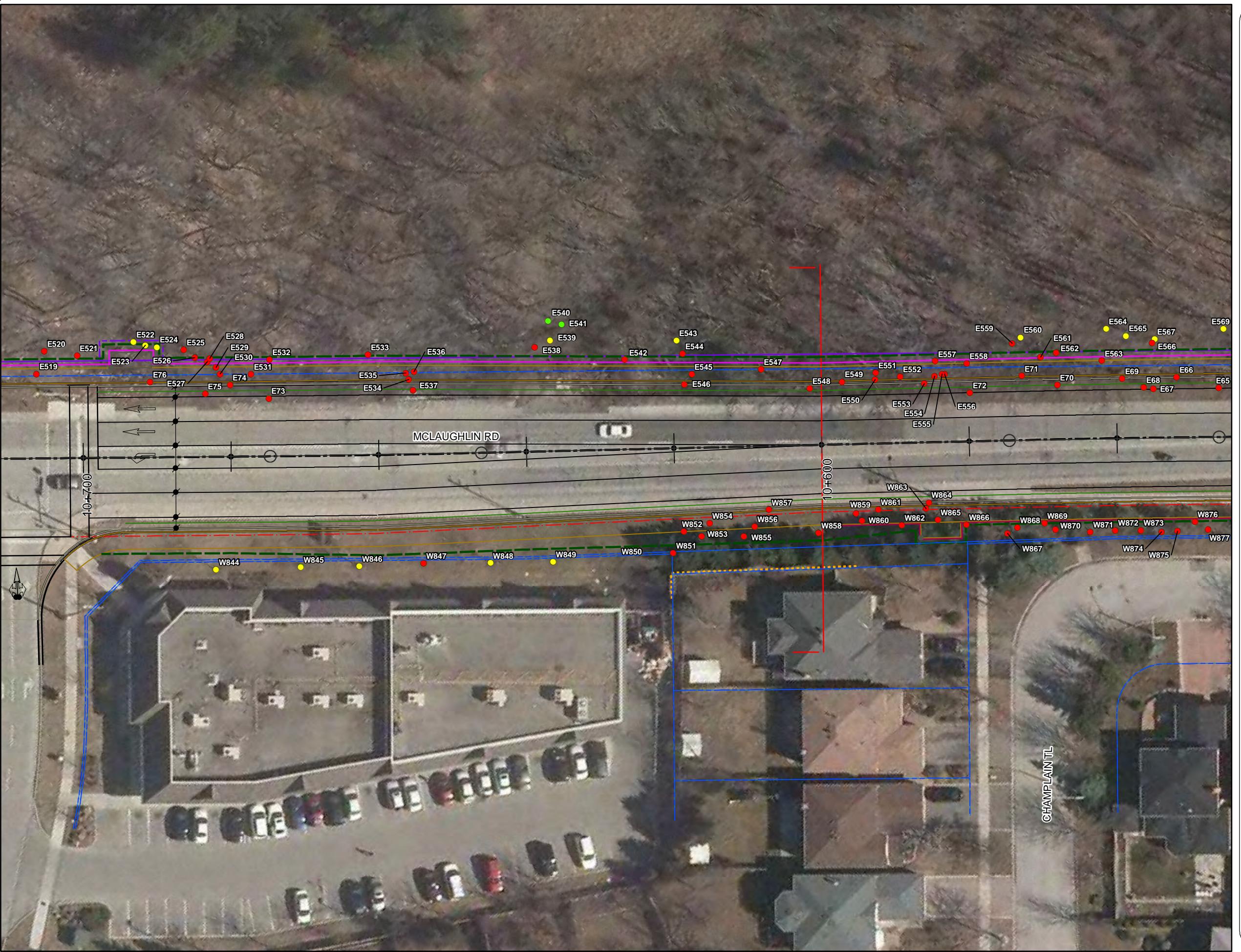
Data Source: LGL Limited field surveys.

10 5 0 10 Metres

MCLAUGHLIN ROAD  
TREE INVENTORY



Project: TA8181	Figure: 1E
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



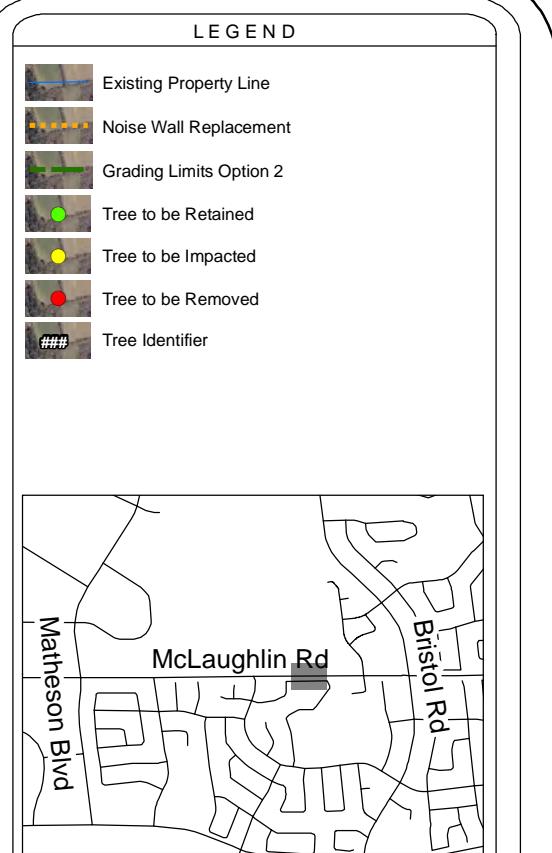
Data Source: LGL Limited field surveys.

10 5 0 10 Metres

MCLAUGHLIN ROAD  
TREE INVENTORY

**LGL**  
LIMITED  
environmental research associates

Project: TA8181	Figure: 1F
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



Data Source: LGL Limited field surveys.

10 5 0 10 Metres

### MCLAUGHLIN ROAD TREE INVENTORY



Project: TA8181	Figure: 1G
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



#### LEGEND

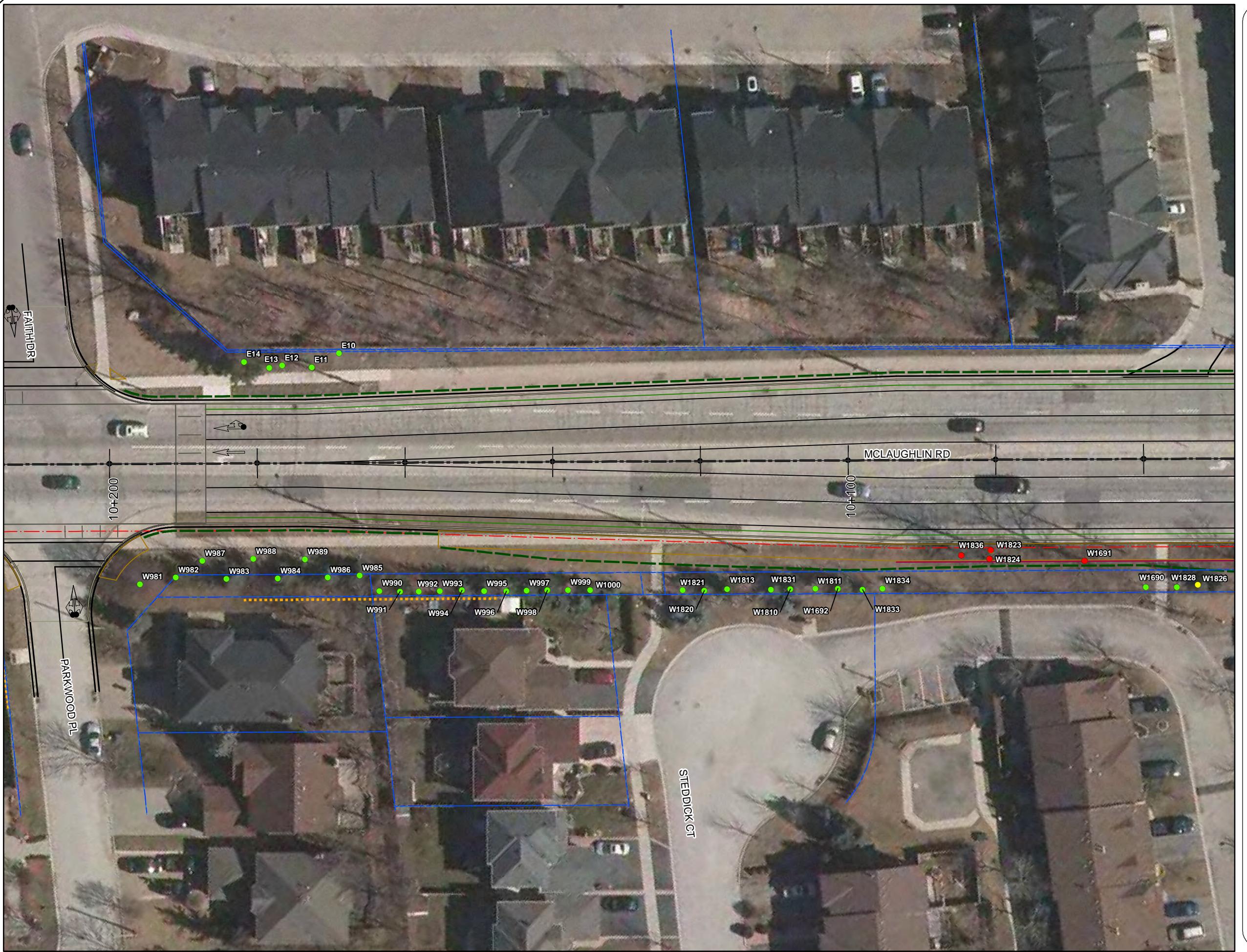
- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



MCLAUGHLIN ROAD  
TREE INVENTORY



Project: TA8181	Figure: 1H
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



#### LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



Data Source: LGL Limited field surveys.

10 5 0 10 Metres

#### MCLAUGHLIN ROAD TREE INVENTORY



Project: TA8181	Figure: 11
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



#### LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



Data Source: LGL Limited field surveys.

10 5 0 10 Metres

#### MCLAUGHLIN ROAD TREE INVENTORY



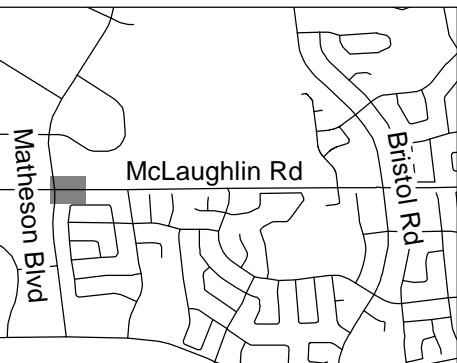
Project: TA8181	Figure: 1J
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC

**APPENDIX C**  
**TREE REMOVAL FIGURES OPTION 2A/2B**



## LEGEND

-  Existing Property Line
  -  Noise Wall Replacement
  -  Grading Limits Option 2A/2B
  -  Tree to be Retained
  -  Tree to be Impacted
  -  Tree to be Removed
  -  Tree Identifier



Data Source: LGI Limited field surveys.



## MCLAUGHLIN ROAD TREE INVENTORY

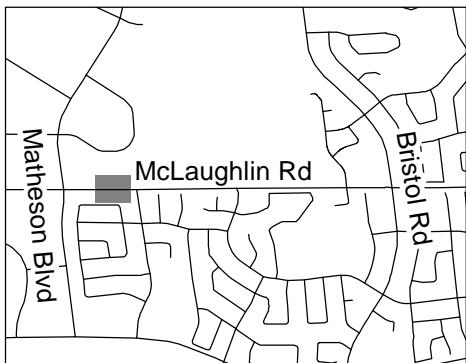


Project: TA8181	Figure: 2A
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



#### LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2A/2B
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



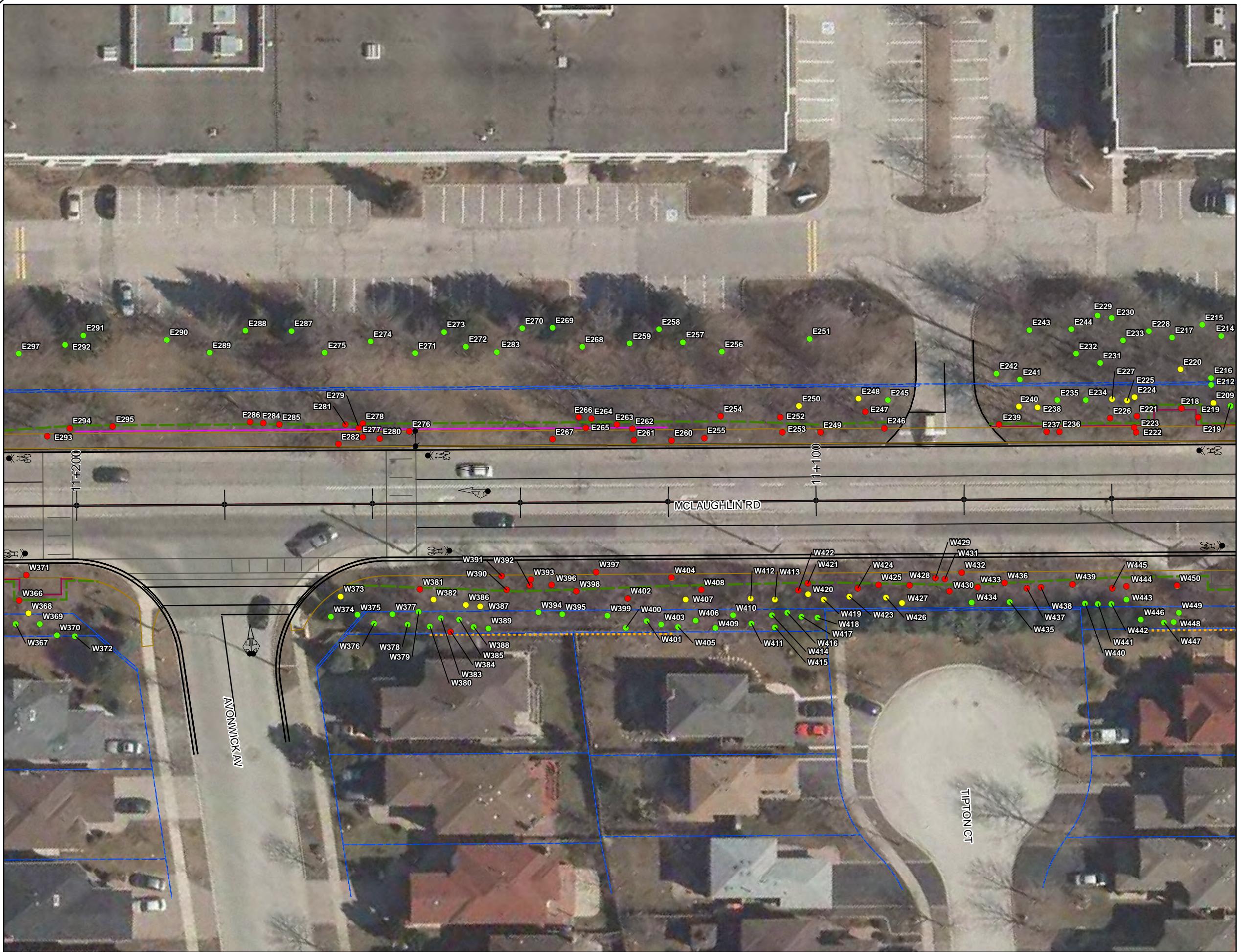
Data Source: LGL Limited field surveys.

10 5 0 10 Metres

#### MCLAUGHLIN ROAD TREE INVENTORY



Project: TA8181	Figure: 2B
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



## LEGEND

- A legend consisting of seven items, each with an icon and a label: 1. A blue line icon labeled "Existing Property Line". 2. A yellow dotted line icon labeled "Noise Wall Replacement". 3. A green dashed line icon labeled "Grading Limits Option 2A/2B". 4. A green circle icon labeled "Tree to be Retained". 5. A yellow circle icon labeled "Tree to be Impacted". 6. A red circle icon labeled "Tree to be Removed". 7. A black and white "##" icon labeled "Tree Identifier".



Data Source: LGL Limited field surveys.



MCLAUGHLIN ROAD  
TREE INVENTORY



<b>Project:</b> TA8181	<b>Figure:</b> 2C
<b>Date:</b> September 2013	<b>Prepared By:</b> MWF
<b>Scale:</b> 1 : 500	<b>Checked By:</b> LMC



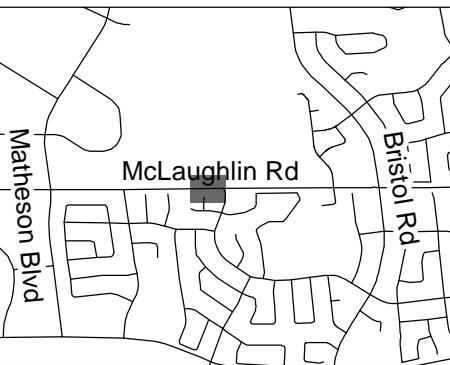


## LEGEND

- The legend consists of six entries, each with a small image followed by a label:

  - Existing Property Line**: Represented by a blue line.
  - Noise Wall Replacement**: Represented by a yellow dotted line.
  - Grading Limits Option 2A/2B**: Represented by a green line.
  - Tree to be Retained**: Represented by a green circle.
  - Tree to be Impacted**: Represented by a yellow circle.
  - Tree to be Removed**: Represented by a red circle.

**Tree Identifier**: Represented by three black hash marks (###).



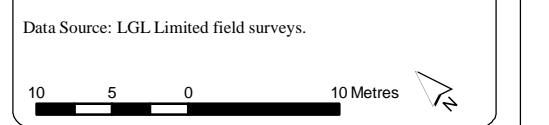
Data Source: LGL Limited field surveys.



# MCLAUGHLIN ROAD TREE INVENTORY



Project: TA8181	Figure: 2E
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC



MCLAUGHLIN ROAD  
TREE INVENTORY

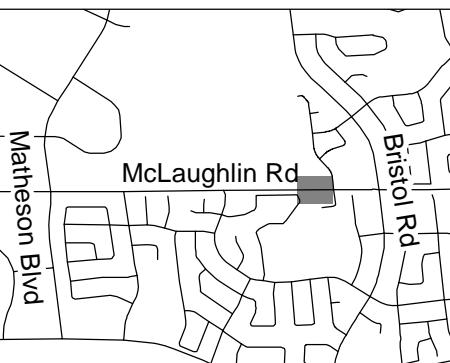






## LEGEND

-  Existing Property Line
  -  Noise Wall Replacement
  -  Grading Limits Option 2A/2B
  -  Tree to be Retained
  -  Tree to be Impacted
  -  Tree to be Removed
  -  Tree Identifier



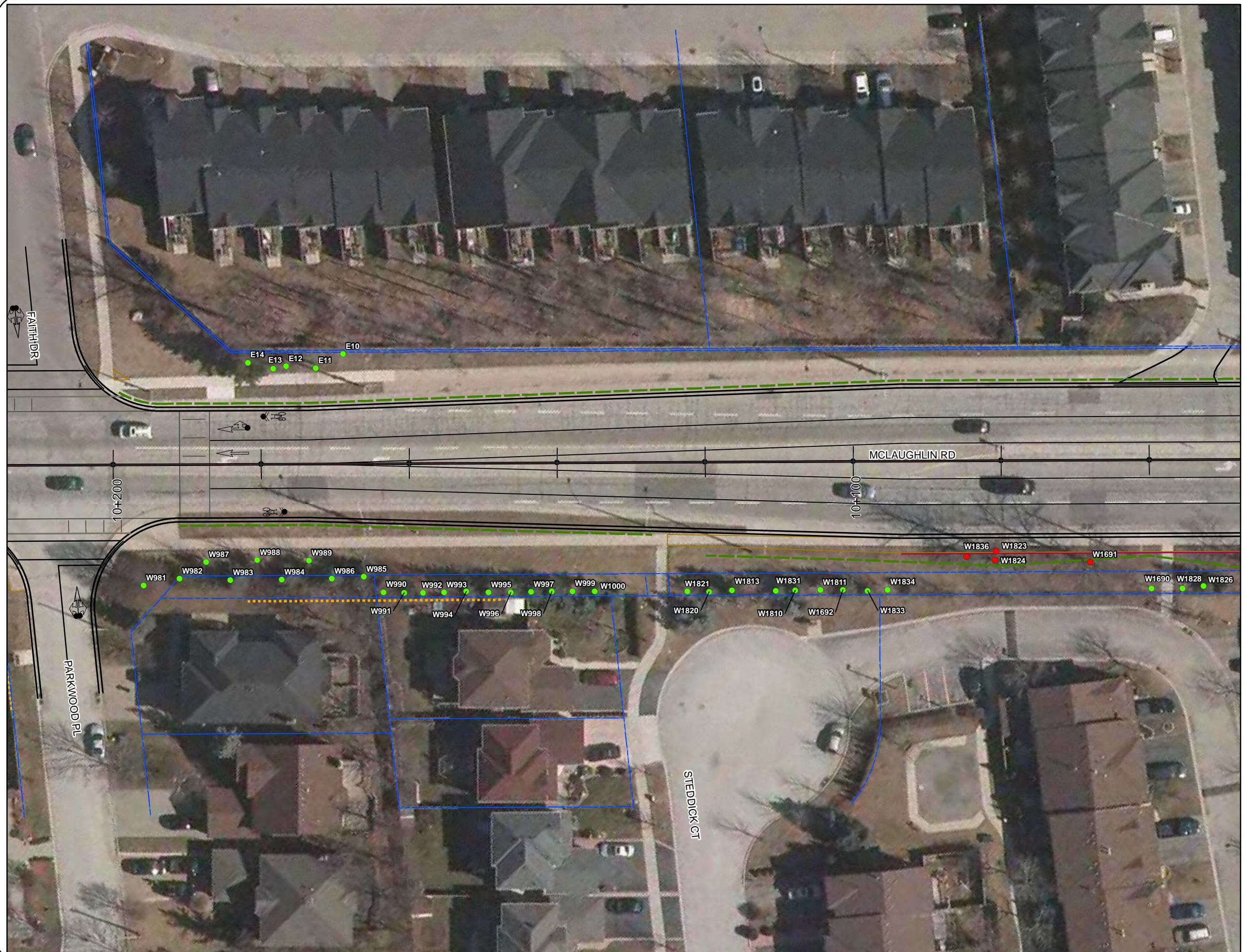
Data Source: LGL Limited field surveys.



## MCLAUGHLIN ROAD TREE INVENTORY

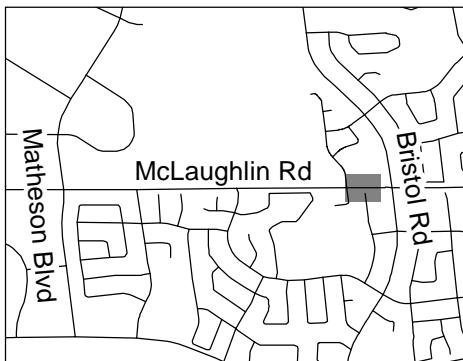


<b>Project:</b> TA8181	<b>Figure:</b> 2H
<b>Date:</b> September 2013	<b>Prepared By:</b> MWF
<b>Scale:</b> 1 : 500	<b>Checked By:</b> LMC



## LEGEND

-  Existing Property Line
  -  Noise Wall Replacement
  -  Grading Limits Option 2A/2B
  -  Tree to be Retained
  -  Tree to be Impacted
  -  Tree to be Removed
  -  Tree Identifier



Data Source: LGL Limited field surveys.



## MCLAUGHLIN ROAD TREE INVENTORY



<b>Project:</b> TA8181	<b>Figure:</b> 21
<b>Date:</b> September 2013	<b>Prepared By:</b> MWF
<b>Scale:</b> 1 : 500	<b>Checked By:</b> LMC



#### LEGEND

- Existing Property Line
- Noise Wall Replacement
- Grading Limits Option 2A/B
- Tree to be Retained
- Tree to be Impacted
- Tree to be Removed
- ## Tree Identifier



Data Source: LGL Limited field surveys.

10 5 0 10 Metres

#### MCLAUGHLIN ROAD TREE INVENTORY



Project: TA8181	Figure: 2J
Date: September 2013	Prepared By: MWF
Scale: 1 : 500	Checked By: LMC

**APPENDIX D**  
**ASSESSMENT OF TREE SURVIABILITY**

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
E121	12.00	2.40	18.00	0.34	1.86	sugar maple	intermediate	yes
E127	33.00	4.20	55.14	7.69	13.95	black cherry	intermediate	yes
E128	41.00	5.40	91.14	14.57	15.99	sugar maple	intermediate	yes
E136	56.00	7.20	162.03	48.02	29.63	red oak	tolerant	yes
E158	17.00	2.40	18.00	1.56	8.68	red oak	tolerant	yes
E163	10.00	2.40	18.00	1.99	11.03	ironwood	sensitive	yes
E169	13.00	2.40	18.00	0.21	1.16	ironwood	sensitive	yes
E190	44.00	5.40	91.14	16.94	18.58	sugar maple	intermediate	yes
E20	18.00	2.40	18.00	1.31	7.27	sugar maple	intermediate	yes
E209	55.00	6.60	136.15	44.41	32.61	red oak	tolerant	yes
E225	26.00	3.60	40.51	6.74	16.64	sugar maple	intermediate	yes
E227	36.00	4.80	72.02	15.47	21.48	red oak	tolerant	yes
E23	22.00	3.00	28.13	4.63	16.47	sugar maple	intermediate	yes
E234	16.00	2.40	18.00	0.35	1.93	sugar maple	intermediate	yes
E235	13.00	2.40	18.00	0.28	1.55	ironwood	sensitive	yes
E24	56.00	7.20	162.03	53.31	32.90	red oak	tolerant	yes
E241	45.00	5.40	91.14	0.69	0.76	red oak	tolerant	yes
E245	11.00	2.40	18.00	0.42	2.33	basswood	intermediate	yes
E248	33.00	4.20	55.14	8.11	14.70	sugar maple	intermediate	yes
E250	27.00	3.60	40.51	9.28	22.92	red ash	tolerant	yes
E30	41.00	5.40	91.14	22.68	24.88	red oak	tolerant	yes
E335	37.00	4.80	72.02	6.76	9.39	Norway maple	tolerant	yes
E336	37.00	4.80	72.02	11.98	16.63	Austrian pine	tolerant	yes
E337	30.00	3.60	40.51	5.49	13.55	Austrian pine	tolerant	yes
E340	40.00	4.80	72.02	15.46	21.46	red ash	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
E342	31.00	4.20	55.14	2.32	4.21	Austrian pine	tolerant	yes
E344	36.00	4.80	72.02	4.14	5.76	Austrian pine	tolerant	yes
E345	32.00	4.20	55.14	0.20	0.37	Norway maple	tolerant	yes
E351	32.00	4.20	55.14	5.78	10.48	Austrian pine	tolerant	yes
E353	36.00	4.80	72.02	12.82	17.80	Austrian pine	tolerant	yes
E354	27.00	3.60	40.51	0.62	1.52	basswood	intermediate	yes
E355	28.00	3.60	40.51	0.34	0.85	red ash	tolerant	yes
E356	34.00	4.20	55.14	1.52	2.75	red ash	tolerant	yes
E357	29.00	3.60	40.51	0.08	0.20	Norway maple	tolerant	yes
E459	38.00	4.80	72.02	20.97	29.12	sugar maple	intermediate	no
E461	20.00	2.40	18.00	0.63	3.49	sugar maple	intermediate	yes
E463	69.00	8.40	220.55	84.57	38.35	sugar maple	intermediate	no
E478	54.00	6.60	136.15	25.78	18.94	red oak	tolerant	yes
E479	24.00	3.00	28.13	5.40	19.20	sugar maple	intermediate	yes
E483	35.00	4.20	55.14	1.79	3.24	sugar maple	intermediate	yes
E484	32.00	4.20	55.14	4.14	7.51	sugar maple	intermediate	yes
E485	19.00	2.40	18.00	1.69	9.36	sugar maple	intermediate	yes
E487	43.00	5.40	91.14	17.04	18.70	sugar maple	intermediate	yes
E489	45.00	5.40	91.14	8.86	9.72	sugar maple	intermediate	yes
E490	28.00	3.60	40.51	3.56	8.79	sugar maple	intermediate	yes
E492	26.00	3.60	40.51	0.15	0.36	sugar maple	intermediate	yes
E510	18.00	2.40	18.00	0.62	3.42	sugar maple	intermediate	yes
E511	18.00	2.40	18.00	1.67	9.26	sugar maple	intermediate	yes
E522	10.00	2.40	18.00	0.21	1.16	American elm	tolerant	yes
E523	13.00	2.40	18.00	1.46	8.11	American elm	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
E524	11.00	2.40	18.00	2.32	12.88	American elm	tolerant	yes
E539	19.00	2.40	18.00	0.29	1.64	black walnut	sensitive	yes
E543	13.00	2.40	18.00	0.28	1.53	red ash	tolerant	yes
E560	61.00	7.80	190.17	63.79	33.55	red oak	tolerant	yes
E564	24.00	3.00	28.13	0.00	0.00	sugar maple	intermediate	yes
E565	26.00	3.60	40.51	6.54	16.13	red oak	tolerant	yes
E567	43.00	5.40	91.14	29.15	31.98	red oak	tolerant	yes
E569	50.00	6.00	112.52	24.51	21.78	red oak	tolerant	yes
E590	24.00	3.00	28.13	2.22	7.90	sugar maple	intermediate	yes
E593	37.00	4.80	72.02	21.14	29.36	sugar maple	intermediate	no
E595	54.00	6.60	136.15	46.99	34.51	red oak	tolerant	yes
E599	32.00	4.20	55.14	13.67	24.78	sugar maple	intermediate	yes
W1689	16.00	2.40	18.00	1.44	7.98	blue spruce	tolerant	yes
W1816	17.00	2.40	18.00	1.62	9.02	sugar maple	intermediate	yes
W1825	11.00	2.40	18.00	0.54	3.01	sugar maple	intermediate	yes
W1826	14.00	2.40	18.00	0.47	2.59	blue spruce	tolerant	yes
W1827	11.00	2.40	18.00	2.20	12.20	sugar maple	intermediate	yes
W197	56.00	7.20	162.03	48.02	29.63	white pine	tolerant	yes
W199	17.00	2.40	18.00	2.13	11.86	red maple	tolerant	yes
W200	18.00	2.40	18.00	0.96	5.35	sugar maple	intermediate	yes
W203	14.00	2.40	18.00	0.80	4.46	bur oak	tolerant	yes
W204	36.00	4.80	72.02	2.11	2.93	bur oak	tolerant	yes
W205	18.00	2.40	18.00	0.89	4.93	bur oak	tolerant	yes
W207	20.00	2.40	18.00	2.27	12.61	bur oak	tolerant	yes
W210	16.00	2.40	18.00	1.33	7.36	red maple	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
W214	15.00	2.40	18.00	1.48	8.20	red maple	tolerant	yes
W218	17.00	2.40	18.00	0.69	3.82	sugar maple	intermediate	yes
W225	13.00	2.40	18.00	0.33	1.85	blue spruce	tolerant	yes
W227	17.00	2.40	18.00	0.92	5.10	blue spruce	tolerant	yes
W239	22.00	3.00	28.13	1.82	6.47	silver maple	tolerant	yes
W262	21.00	3.00	28.13	0.84	2.97	white pine	tolerant	yes
W267	14.00	2.40	18.00	0.20	1.10	sugar maple	intermediate	yes
W268	19.00	2.40	18.00	1.46	8.14	sugar maple	intermediate	yes
W281	18.00	2.40	18.00	0.30	1.69	sugar maple	intermediate	yes
W284	21.00	3.00	28.13	1.89	6.73	sugar maple	intermediate	yes
W286	10.00	2.40	18.00	0.10	0.53	red maple	tolerant	yes
W287	16.00	2.40	18.00	0.00	0.01	sugar maple	intermediate	yes
W293	15.00	2.40	18.00	0.08	0.43	sugar maple	intermediate	yes
W298	21.00	3.00	28.13	0.16	0.57	bur oak	tolerant	yes
W300	34.00	4.20	55.14	0.86	1.56	bur oak	tolerant	yes
W301	11.00	2.40	18.00	1.32	7.34	bur oak	tolerant	yes
W317	14.00	2.40	18.00	0.08	0.44	sugar maple	intermediate	yes
W329	15.00	2.40	18.00	1.23	6.85	sugar maple	intermediate	yes
W331	11.00	2.40	18.00	0.00	0.02	Siberian elm	tolerant	yes
W332	10.00	2.40	18.00	2.27	12.61	sugar maple	intermediate	yes
W356	22.00	3.00	28.13	0.00	0.00	red maple	tolerant	yes
W368	14.00	2.40	18.00	0.69	3.81	sugar maple	intermediate	yes
W379	11.00	2.40	18.00	0.19	1.07	bur oak	tolerant	yes
W394	10.00	2.40	18.00	0.39	2.17	red maple	tolerant	yes
W435	15.00	2.40	18.00	1.83	10.17	bur oak	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
W440	13.00	2.40	18.00	0.03	0.17	white spruce	tolerant	yes
W443	13.00	2.40	18.00	0.57	3.18	Norway maple	tolerant	yes
W455	13.00	2.40	18.00	1.74	9.65	red maple	tolerant	yes
W468	22.00	3.00	28.13	3.95	14.03	red oak	tolerant	yes
W474	21.00	3.00	28.13	2.70	9.61	sugar maple	intermediate	yes
W482	11.00	2.40	18.00	0.28	1.53	white spruce	tolerant	yes
W497	18.00	2.40	18.00	0.74	4.09	red oak	tolerant	yes
W498	15.00	2.40	18.00	1.84	10.22	white spruce	tolerant	yes
W501	18.00	2.40	18.00	0.88	4.89	red ash	tolerant	yes
W507	21.00	3.00	28.13	4.55	16.17	white spruce	tolerant	yes
W512	16.00	2.40	18.00	1.74	9.66	black cherry	intermediate	yes
W801	14.00	2.40	18.00	1.14	6.34	white spruce	tolerant	yes
W809	28.00	3.60	40.51	0.78	1.92	bur oak	tolerant	yes
W822	16.00	2.40	18.00	2.33	12.96	white spruce	tolerant	yes
W823	23.00	3.00	28.13	1.91	6.78	Norway maple	tolerant	yes
W842	32.00	4.20	55.14	1.09	1.98	Norway maple	tolerant	yes
W844	13.00	2.40	18.00	0.23	1.27	honey locust	tolerant	yes
W845	11.00	2.40	18.00	1.55	8.59	honey locust	tolerant	yes
W846	15.00	2.40	18.00	2.28	12.64	honey locust	tolerant	yes
W848	16.00	2.40	18.00	1.94	10.79	honey locust	tolerant	yes
W849	12.00	2.40	18.00	1.46	8.09	honey locust	tolerant	yes
W881	29.00	3.60	40.51	8.93	22.04	Norway maple	tolerant	yes
W882	25.00	3.00	28.13	3.65	12.97	Norway maple	tolerant	yes
W891	25.00	3.00	28.13	3.59	12.76	Norway maple	tolerant	yes
W894	25.00	3.00	28.13	3.47	12.33	Norway maple	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
W895	11.00	2.40	18.00	2.16	12.00	white spruce	tolerant	yes
W896	17.00	2.40	18.00	1.95	10.82	white spruce	tolerant	yes
W897	27.00	3.60	40.51	6.26	15.46	Norway maple	tolerant	yes
W898	12.00	2.40	18.00	1.84	10.23	white spruce	tolerant	yes
W900	14.00	2.40	18.00	1.45	8.07	blue spruce	tolerant	yes
W901	26.00	3.60	40.51	5.98	14.75	Norway maple	tolerant	yes
W902	16.00	2.40	18.00	1.76	9.78	white spruce	tolerant	yes
W903	27.00	3.60	40.51	5.54	13.67	Norway maple	tolerant	yes
W904	27.00	3.60	40.51	7.18	17.71	Norway maple	tolerant	yes
W906	15.00	2.40	18.00	1.19	6.61	blue spruce	tolerant	yes
W907	23.00	3.00	28.13	2.13	7.57	Norway maple	tolerant	yes
W908	28.00	3.60	40.51	4.41	10.89	Norway maple	tolerant	yes
W909	14.00	2.40	18.00	1.30	7.22	blue spruce	tolerant	yes
W911	14.00	2.40	18.00	1.65	9.14	blue spruce	tolerant	yes
W912	24.00	3.00	28.13	2.16	7.68	Norway maple	tolerant	yes
W913	17.00	2.40	18.00	1.80	9.97	white spruce	tolerant	yes
W914	19.00	2.40	18.00	1.31	7.26	blue spruce	tolerant	yes
W915	26.00	3.60	40.51	3.67	9.07	Norway maple	tolerant	yes
W916	11.00	2.40	18.00	0.30	1.68	white spruce	tolerant	yes
W917	12.00	2.40	18.00	0.50	2.77	Austrian pine	tolerant	yes
W918	15.00	2.40	18.00	0.23	1.28	blue spruce	tolerant	yes
W919	26.00	3.60	40.51	3.05	7.52	Norway maple	tolerant	yes
W920	13.00	2.40	18.00	0.64	3.53	white spruce	tolerant	yes
W924	23.00	3.00	28.13	0.36	1.27	Norway maple	tolerant	yes
W925	12.00	2.40	18.00	1.80	10.00	Austrian pine	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
W926	23.00	3.00	28.13	0.24	0.84	Norway maple	tolerant	yes
W928	10.00	2.40	18.00	0.38	2.13	white spruce	tolerant	yes
W929	28.00	3.60	40.51	4.57	11.28	Norway maple	tolerant	yes
W937	19.00	2.40	18.00	1.61	8.96	red oak	tolerant	yes
W939	21.00	3.00	28.13	1.07	3.79	red oak	tolerant	yes
W941	26.00	3.60	40.51	8.92	22.02	red oak	tolerant	yes
W942	32.00	4.20	55.14	3.39	6.15	red oak	tolerant	yes
W947	18.00	2.40	18.00	0.22	1.20	red oak	tolerant	yes
W949	12.00	2.40	18.00	0.02	0.13	sugar maple	intermediate	yes
W953	28.00	3.60	40.51	3.82	9.44	sugar maple	intermediate	yes
W954	37.00	4.80	72.02	8.41	11.67	sugar maple	intermediate	yes
W957	25.00	3.00	28.13	4.28	15.21	sugar maple	intermediate	yes
W960	31.00	4.20	55.14	11.68	21.18	sugar maple	intermediate	yes
W961	35.00	4.20	55.14	11.24	20.39	sugar maple	intermediate	yes
W964	70.00	8.40	220.55	54.59	24.75	red oak	tolerant	yes
W965	64.00	7.80	190.17	28.48	14.97	red oak	tolerant	yes
W967	72.00	9.00	253.18	41.80	16.51	red oak	tolerant	yes
W970	46.00	6.00	112.52	22.78	20.24	white ash	tolerant	yes
W978	13.00	2.40	18.00	0.11	0.59	blue spruce	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
E122	50.00	6.00	112.52	38.43	34.15	red oak	tolerant	yes
E127	33.00	4.20	55.14	3.18	5.77	black cherry	intermediate	yes
E128	41.00	5.40	91.14	8.72	9.57	sugar maple	intermediate	yes
E136	56.00	7.20	162.03	36.06	22.26	red oak	tolerant	yes
E152	13.00	2.40	18.00	1.06	5.91	red oak	tolerant	yes
E16	24.00	3.00	28.13	0.00	0.01	sugar maple	intermediate	yes
E160	13.00	2.40	18.00	1.53	8.48	red oak	tolerant	yes
E174	23.00	3.00	28.13	2.92	10.37	red oak	tolerant	yes
E175	10.00	2.40	18.00	0.15	0.82	red oak	tolerant	yes
E18	23.00	3.00	28.13	4.54	16.15	sugar maple	intermediate	yes
E19	22.00	3.00	28.13	0.70	2.50	sugar maple	intermediate	yes
E190	44.00	5.40	91.14	10.25	11.24	sugar maple	intermediate	yes
E197	15.00	2.40	18.00	2.32	12.88	sugar maple	intermediate	yes
E198	67.00	8.40	220.55	79.20	35.91	red oak	tolerant	no
E209	55.00	6.60	136.15	44.09	32.38	red oak	tolerant	yes
E220	48.00	6.00	112.52	5.72	5.08	red oak	tolerant	yes
E224	14.00	2.40	18.00	0.06	0.35	sugar maple	intermediate	yes
E225	26.00	3.60	40.51	1.95	4.82	sugar maple	intermediate	yes
E227	36.00	4.80	72.02	7.28	10.12	sugar maple	intermediate	yes
E238	20.00	2.40	18.00	0.25	1.39	red ash	tolerant	yes
E24	56.00	7.20	162.03	18.27	11.28	red oak	tolerant	yes
E240	25.00	3.00	28.13	1.87	6.66	red oak	tolerant	yes
E248	33.00	4.20	55.14	3.05	5.52	sugar maple	intermediate	yes
E250	27.00	3.60	40.51	4.24	10.46	red ash	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
E26	27.00	3.60	40.51	5.45	13.46	sugar maple	intermediate	yes
E30	41.00	5.40	91.14	1.83	2.01	red oak	tolerant	yes
E302	36.00	4.80	72.02	20.19	28.04	sugar maple	intermediate	no
E31	47.00	6.00	112.52	24.51	21.78	red oak	tolerant	yes
E32	14.00	2.40	18.00	0.71	3.93	sugar maple	intermediate	yes
E34	19.00	2.40	18.00	0.62	3.44	sugar maple	intermediate	yes
E351	32.00	4.20	55.14	3.28	5.94	Austrian pine	tolerant	yes
E353	36.00	4.80	72.02	7.90	10.97	Austrian pine	tolerant	yes
E42	13.00	2.40	18.00	2.22	12.34	sugar maple	intermediate	yes
E43	15.00	2.40	18.00	0.34	1.87	sugar maple	intermediate	yes
E44	29.00	3.60	40.51	1.04	2.57	red oak	tolerant	yes
E456	11.00	2.40	18.00	2.24	12.42	sugar maple	intermediate	yes
E459	38.00	4.80	72.02	13.27	18.43	sugar maple	intermediate	yes
E462	13.00	2.40	18.00	1.79	9.92	sugar maple	intermediate	yes
E463	69.00	8.40	220.55	70.08	31.78	sugar maple	intermediate	no
E470	13.00	2.40	18.00	2.27	12.61	basswood	intermediate	yes
E473	12.00	2.40	18.00	0.40	2.20	American beech	sensitive	yes
E476	15.00	2.40	18.00	0.12	0.65	sugar maple	intermediate	yes
E478	54.00	6.60	136.15	16.66	12.23	red oak	tolerant	yes
E479	24.00	3.00	28.13	1.57	5.57	sugar maple	intermediate	yes
E484	32.00	4.20	55.14	0.41	0.75	sugar maple	intermediate	yes
E487	43.00	5.40	91.14	9.70	10.64	sugar maple	intermediate	yes
E489	45.00	5.40	91.14	3.08	3.37	sugar maple	intermediate	yes
E490	28.00	3.60	40.51	0.27	0.66	sugar maple	intermediate	yes
E512	14.00	2.40	18.00	1.37	7.58	sugar maple	intermediate	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
E516	26.00	3.60	40.51	5.80	14.32	sugar maple	intermediate	yes
E517	32.00	4.20	55.14	14.55	26.40	sugar maple	intermediate	no
E520	15.00	2.40	18.00	0.87	4.83	American elm	tolerant	yes
E526	15.00	2.40	18.00	0.49	2.74	red ash	tolerant	yes
E527	15.00	2.40	18.00	2.26	12.57	American elm	tolerant	yes
E528	13.00	2.40	18.00	0.65	3.62	sugar maple	intermediate	yes
E532	20.00	2.40	18.00	1.41	7.86	sugar maple	intermediate	yes
E533	31.00	4.20	55.14	9.42	17.09	sugar maple	intermediate	yes
E542	25.00	3.00	28.13	4.34	15.43	black cherry	intermediate	yes
E544	21.00	3.00	28.13	1.13	4.03	black walnut	sensitive	yes
E560	61.00	7.80	190.17	33.94	17.85	red oak	tolerant	yes
E562	11.00	2.40	18.00	0.79	4.41	sugar maple	intermediate	yes
E566	42.00	5.40	91.14	14.23	15.61	red oak	tolerant	yes
E567	43.00	5.40	91.14	9.55	10.48	red oak	tolerant	yes
E569	50.00	6.00	112.52	5.42	4.81	red oak	tolerant	yes
E570	30.00	3.60	40.51	8.59	21.21	shagbark hickory	intermediate	yes
E572	14.00	2.40	18.00	0.29	1.63	black walnut	sensitive	yes
E573	15.00	2.40	18.00	1.50	8.34	American elm	tolerant	yes
E580	25.00	3.00	28.13	4.13	14.69	black walnut	sensitive	yes
E582	37.00	4.80	72.02	18.74	26.02	black walnut	sensitive	no
E584	42.00	5.40	91.14	24.48	26.86	sugar maple	intermediate	no
E588	43.00	5.40	91.14	22.60	24.79	sugar maple	intermediate	yes
E591	18.00	2.40	18.00	0.28	1.55	sugar maple	intermediate	yes
E593	37.00	4.80	72.02	5.15	7.15	sugar maple	intermediate	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
E594	27.00	3.60	40.51	9.47	23.38	sugar maple	intermediate	yes
E595	54.00	6.60	136.15	25.87	19.00	red oak	tolerant	yes
E599	32.00	4.20	55.14	0.90	1.62	sugar maple	intermediate	yes
E601	33.00	4.20	55.14	8.37	15.18	black cherry	intermediate	yes
E604	68.00	8.40	220.55	83.24	37.74	sugar maple	intermediate	no
E606	35.00	4.20	55.14	9.43	17.11	sugar maple	intermediate	yes
E607	35.00	4.20	55.14	14.24	25.82	sugar maple	intermediate	no
E609	17.00	2.40	18.00	0.03	0.15	black cherry	intermediate	yes
E612	12.00	2.40	18.00	2.09	11.60	sugar maple	intermediate	yes
E613	13.00	2.40	18.00	0.76	4.23	sugar maple	intermediate	yes
W1689	16.00	2.40	18.00	0.62	3.42	black cherry	intermediate	yes
W1816	17.00	2.40	18.00	0.73	4.06	sugar maple	intermediate	yes
W1827	11.00	2.40	18.00	1.28	7.12	sugar maple	intermediate	yes
W188	20.00	2.40	18.00	0.50	2.79	white spruce	tolerant	yes
W189	26.00	3.60	40.51	6.76	16.69	Austrian pine	tolerant	yes
W197	56.00	7.20	162.03	36.48	22.52	white pine	tolerant	yes
W242	22.00	3.00	28.13	4.74	16.86	silver maple	tolerant	yes
W268	19.00	2.40	18.00	0.17	0.96	sugar maple	intermediate	yes
W275	19.00	2.40	18.00	1.18	6.54	sugar maple	intermediate	yes
W276	18.00	2.40	18.00	1.33	7.41	sugar maple	intermediate	yes
W284	21.00	3.00	28.13	0.27	0.96	sugar maple	intermediate	yes
W335	12.00	2.40	18.00	0.05	0.29	sugar maple	intermediate	yes
W353	14.00	2.40	18.00	2.04	11.34	sugar maple	intermediate	yes
W365	17.00	2.40	18.00	1.07	5.94	basswood	intermediate	yes
W368	14.00	2.40	18.00	1.29	7.19	sugar maple	intermediate	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
W373	13.00	2.40	18.00	0.52	2.91	Austrian pine	tolerant	yes
W382	13.00	2.40	18.00	2.31	12.86	red maple	tolerant	yes
W386	10.00	2.40	18.00	0.47	2.62	red maple	tolerant	yes
W387	11.00	2.40	18.00	0.13	0.70	red maple	tolerant	yes
W407	27.00	3.60	40.51	7.25	17.89	red oak	tolerant	yes
W412	11.00	2.40	18.00	0.89	4.94	red maple	tolerant	yes
W413	10.00	2.40	18.00	0.37	2.05	red maple	tolerant	yes
W419	17.00	2.40	18.00	0.05	0.29	white pine	tolerant	yes
W420	12.00	2.40	18.00	2.14	11.86	basswood	intermediate	yes
W423	10.00	2.40	18.00	1.22	6.78	bur oak	tolerant	yes
W426	15.00	2.40	18.00	1.10	6.12	bur oak	tolerant	yes
W427	22.00	3.00	28.13	0.84	2.99	bur oak	tolerant	yes
W455	13.00	2.40	18.00	0.73	4.04	ironwood	sensitive	yes
W468	22.00	3.00	28.13	0.26	0.93	red oak	tolerant	yes
W472	42.00	5.40	91.14	27.64	30.33	red oak	tolerant	yes
W479	24.00	3.00	28.13	2.10	7.47	red oak	tolerant	yes
W489	44.00	5.40	91.14	20.51	22.50	American elm	tolerant	yes
W804	20.00	2.40	18.00	1.69	9.41	red ash	tolerant	yes
W819	25.00	3.00	28.13	2.36	8.37	sugar maple	intermediate	yes
W821	52.00	6.60	136.15	8.51	6.25	silver maple	tolerant	yes
W867	27.00	3.60	40.51	8.64	21.32	Norway maple	tolerant	yes
W871	10.00	2.40	18.00	1.35	7.50	blue spruce	tolerant	yes
W872	10.00	2.40	18.00	1.77	9.85	blue spruce	tolerant	yes
W873	21.00	3.00	28.13	4.46	15.87	Norway maple	tolerant	yes
W874	10.00	2.40	18.00	0.84	4.68	blue spruce	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

<b>Tree ID</b>	<b>DBH</b>	<b>Tree Protection Zone</b>	<b>Total Area of TPZ (m<sup>2</sup>)</b>	<b>Area of TPZ Within Grading (m<sup>2</sup>)</b>	<b>Percent Within Grading</b>	<b>Species</b>	<b>Sensitivity</b>	<b>Estimated Survival</b>
W875	21.00	3.00	28.13	3.68	13.10	Norway maple	tolerant	yes
W877	17.00	2.40	18.00	1.77	9.84	Norway maple	tolerant	yes
W878	24.00	3.00	28.13	3.77	13.39	Norway maple	tolerant	yes
W879	10.00	2.40	18.00	1.92	10.67	Austrian pine	tolerant	yes
W880	18.00	2.40	18.00	1.04	5.76	Austrian pine	tolerant	yes
W881	29.00	3.60	40.51	5.78	14.27	Norway maple	tolerant	yes
W882	25.00	3.00	28.13	1.64	5.84	Norway maple	tolerant	yes
W883	13.00	2.40	18.00	1.82	10.12	blue spruce	tolerant	yes
W884	11.00	2.40	18.00	1.01	5.59	blue spruce	tolerant	yes
W885	29.00	3.60	40.51	7.61	18.79	Norway maple	tolerant	yes
W886	13.00	2.40	18.00	1.90	10.54	white spruce	tolerant	yes
W887	15.00	2.40	18.00	1.95	10.83	blue spruce	tolerant	yes
W888	27.00	3.60	40.51	8.73	21.56	Norway maple	tolerant	yes
W889	12.00	2.40	18.00	1.76	9.79	white spruce	tolerant	yes
W891	25.00	3.00	28.13	1.67	5.95	Norway maple	tolerant	yes
W892	14.00	2.40	18.00	2.28	12.65	blue spruce	tolerant	yes
W893	13.00	2.40	18.00	1.97	10.94	blue spruce	tolerant	yes
W894	25.00	3.00	28.13	1.96	6.97	Norway maple	tolerant	yes
W895	11.00	2.40	18.00	1.07	5.93	white spruce	tolerant	yes
W896	17.00	2.40	18.00	1.04	5.77	white spruce	tolerant	yes
W897	27.00	3.60	40.51	4.86	11.99	Norway maple	tolerant	yes
W898	12.00	2.40	18.00	1.14	6.33	white spruce	tolerant	yes
W900	14.00	2.40	18.00	0.92	5.12	blue spruce	tolerant	yes
W901	26.00	3.60	40.51	5.23	12.91	Norway maple	tolerant	yes
W902	16.00	2.40	18.00	1.57	8.72	white spruce	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

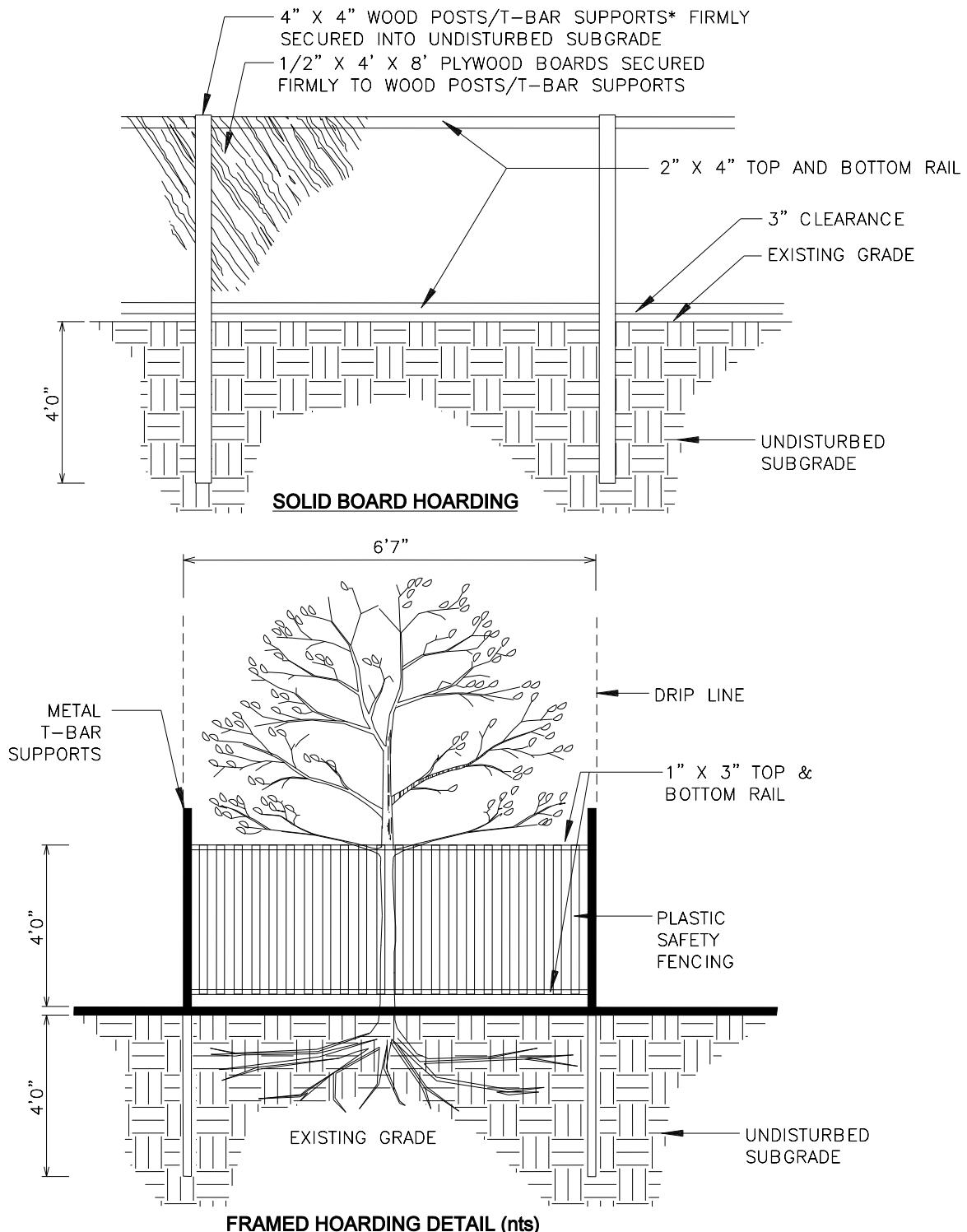
Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
W903	27.00	3.60	40.51	5.24	12.94	Norway maple	tolerant	yes
W904	27.00	3.60	40.51	6.81	16.82	Norway maple	tolerant	yes
W906	15.00	2.40	18.00	0.99	5.52	blue spruce	tolerant	yes
W907	23.00	3.00	28.13	1.86	6.62	Norway maple	tolerant	yes
W908	28.00	3.60	40.51	4.09	10.10	Norway maple	tolerant	yes
W909	14.00	2.40	18.00	1.12	6.22	blue spruce	tolerant	yes
W911	14.00	2.40	18.00	1.47	8.18	blue spruce	tolerant	yes
W912	24.00	3.00	28.13	1.96	6.98	Norway maple	tolerant	yes
W913	17.00	2.40	18.00	1.63	9.06	white spruce	tolerant	yes
W914	19.00	2.40	18.00	1.12	6.24	blue spruce	tolerant	yes
W915	26.00	3.60	40.51	3.33	8.21	Norway maple	tolerant	yes
W916	11.00	2.40	18.00	0.15	0.84	white spruce	tolerant	yes
W917	12.00	2.40	18.00	0.30	1.66	Austrian pine	tolerant	yes
W918	15.00	2.40	18.00	0.07	0.41	blue spruce	tolerant	yes
W919	26.00	3.60	40.51	2.53	6.26	Norway maple	tolerant	yes
W920	13.00	2.40	18.00	0.36	2.03	white spruce	tolerant	yes
W924	23.00	3.00	28.13	0.03	0.10	Norway maple	tolerant	yes
W925	12.00	2.40	18.00	1.07	5.93	Austrian pine	tolerant	yes
W929	28.00	3.60	40.51	2.67	6.60	Norway maple	tolerant	yes
W933	22.00	3.00	28.13	3.69	13.11	red oak	tolerant	yes
W934	24.00	3.00	28.13	0.40	1.43	red oak	tolerant	yes
W937	19.00	2.40	18.00	0.96	5.36	red oak	tolerant	yes
W939	21.00	3.00	28.13	0.27	0.97	red oak	tolerant	yes
W941	26.00	3.60	40.51	6.72	16.59	red oak	tolerant	yes
W942	32.00	4.20	55.14	1.34	2.42	red oak	tolerant	yes

**APPENDIX D.**  
**ASSESSMENT OF TREE SURVIVABILITY OPTION 2A/2B**

Tree ID	DBH	Tree Protection Zone	Total Area of TPZ (m <sup>2</sup> )	Area of TPZ Within Grading (m <sup>2</sup> )	Percent Within Grading	Species	Sensitivity	Estimated Survival
W943	16.00	2.40	18.00	0.86	4.78	red aoak	tolerant	yes
W946	22.00	3.00	28.13	1.09	3.89	red oak	tolerant	yes
W954	37.00	4.80	72.02	2.91	4.04	sugar maple	intermediate	yes
W956	30.00	3.60	40.51	8.33	20.57	sugar maple	intermediate	yes
W957	25.00	3.00	28.13	2.12	7.54	sugar maple	intermediate	yes
W960	31.00	4.20	55.14	9.70	17.59	sugar maple	intermediate	yes
W961	35.00	4.20	55.14	9.72	17.63	sugar maple	intermediate	yes
W964	70.00	8.40	220.55	47.69	21.63	red oak	tolerant	yes
W965	64.00	7.80	190.17	22.44	11.80	red oak	tolerant	yes
W967	72.00	9.00	253.18	35.13	13.88	red oak	tolerant	yes
W968	59.00	7.20	162.03	54.05	33.36	red oak	tolerant	yes
W970	46.00	6.00	112.52	18.53	16.47	white ash	tolerant	yes
W972	24.00	3.00	28.13	0.05	0.19	sugar maple	intermediate	yes

**APPENDIX E**  
**TREE HOARDING SPECIFICATIONS**

# DEVELOPMENT & DESIGN CONSTRUCTION HOARDING



## NOTES:

1. HOARDING DETAILS TO BE DETERMINED FOLLOWING INITIAL SITE INSPECTION.
  2. HOARDING TO BE APPROVED BY DEVELOPMENT AND DESIGN.
  3. HOARDING MUST BE SUPPLIED, INSTALLED AND MAINTAINED BY THE APPLICANT THROUGHOUT ALL PHASES OF CONSTRUCTION, UNTIL APPROVAL TO REMOVE HOARDING IS OBTAINED FROM DEVELOPMENT AND DESIGN.
  4. DO NOT ALLOW WATER TO COLLECT AND POND BEHIND OR WITHIN HOARDING.
- \* T-BAR SUPPORTS FOR SOLID HOARDING WILL ONLY BE ALLOWED WITH PRE APPROVAL FROM DEVELOPMENT AND DESIGN.



SCALE: N.T.S.  
DATE: JAN, 2008