

# **Tree Inventory, Protection & Removal Plan**

**Prepared for:  
Hillsburgh Heights Inc.**

**Site: 5916 Trafalgar Road North, Hillsburgh, Erin Ontario**

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**February 13, 2023.**

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## ***1.0 Introduction***

### *1.1 Purpose of Assignment*

The Urban Arborist Inc was retained by Hillsburgh Heights Inc. to prepare a Tree Inventory, Protection Plan, and Removal Plan for a proposed subdivision. Two sections of land is to be left for future uses. Area of land to be developed is shown in Tree Inventory / Protection Plan Drawing TP-1.



Figure 1. Subject Lot at 5916 Trafalgar Road North. Erin, ON. Part 1 and Part 2 Lot 26 Concession 7

### *1.2 Existing Site Characteristics*

The site consists of 1 detached home, with a large barn, and a secondary large garage. The lot has several large grade changes in the form of hills and valleys.

## **2.0 Methodology**

All data used in this report is empirical in nature, unless stated otherwise. All measurements in this report utilize the metric system of measurement.

### *2.1 Field Study*

Site inspection and data collection was initiated August 31, 2021. All significant trees measuring 20cm DBH and greater located on the subject lands. Trees were measured 1.37m from grade (DBH). All trees smaller than the 20cm DBH threshold are shown as groupings.

### *2.2 Tree Locations*

The locations of all significant trees were surveyed and plotted and shown on drawing in appendix 2.

### *2.3 Tree Conditions*

During field study a generalized assessment system was used to give each significant tree a rating based on structural condition and health condition.

The following 5 level assessment for health is listed below.

- Very Poor - Tree displays severe dieback of branches, canopy is extremely sparse. May exhibit extreme pathogen infestation or infection. Or tree is dead.
- Poor - Tree displays some dieback. Branches or canopy is sparse with little or no signs of new growth or vigour. Possible pathogen infestation or infection. Foliar canopy is sparse.
- Average - Tree is developing in a manner typical to others in the area. Canopy is full.
- Good - New growth is vigorous as evidenced by stem elongation and colour. Canopy is dense.
- Very Good - In addition to the attributes of a good rating, tree is displaying extremely vigorous growth and trunk displays a pattern of vigour cracks or lines.

The following 5 level assessment for structural condition was as follows:

- Very Poor - Trunk has large pockets of decay, is bifurcated or has a severe lean. Limbs or branches are poorly attached or dead. Possible hazard.

- Poor - Limbs or branches are poorly attached or developed. Canopy is not symmetrical. Trunk has a lean.
- Average - Trunk, limb and branch development though flawed is typical of this species.
- Good - Trunk is well developed with well attached limbs and branches; some flaws but are hardly visible.
- Very Good - In addition to attributes of a good rating, the tree exhibits a well developed root flare and a balanced canopy.

Factors Assessed were as follows:

| <b>Roots</b>  | <b>Trunk</b>  | <b>Foliage/Buds</b>  | <b>Scaffold Branches</b>  | <b>Small Branches/Twigs</b>   |
|---|---|--|---|---|
| <ul style="list-style-type: none"> <li>· Collar/flare</li> <li>· Mechanical injury</li> <li>· Girdling roots</li> <li>· Insects/disease</li> <li>· Decay/fungi</li> </ul> | <ul style="list-style-type: none"> <li>· Cavities</li> <li>· Mechanical injury</li> <li>· Cracks</li> <li>· Swollen/sunken areas</li> <li>· Insects/disease</li> <li>· Fungi</li> </ul> | <ul style="list-style-type: none"> <li>· Size of foliage/buds</li> <li>· Foliage colour</li> <li>· Foliage injury</li> <li>· Dieback of buds/foilage</li> <li>· Insects/disease</li> </ul> | <ul style="list-style-type: none"> <li>· Attachments/included bark</li> <li>· Taper</li> <li>· Distribution</li> <li>· Decay/cavities</li> <li>· Deadwood</li> <li>· Insects/disease</li> </ul> | <ul style="list-style-type: none"> <li>· Vigour/growth rates</li> <li>· Distribution</li> <li>· Appearance</li> <li>· Insects/disease</li> <li>· Dieback</li> </ul> |

### ***3.0 Tree Inventory***

A total of 80 trees were individually inventoried and 6 groupings of trees were inventoried. (See Tree Inventory Spreadsheet in appendix 1).

Groupings consisted of mostly juvenile trees less than 20cm in diameter.

#### *3.1 Trees to Preserve*

The trees in this section have been evaluated suitable for preservation and fall under the Tree Preservation, Protection and Management guidelines in this report. Different approaches of Tree Preservation can be carried out following tree health and structure evaluation. The following describes the differences in approaches to Tree Preservation.

##### **1. Preserve, Protect & Maintain**

Includes protection with tree preservation hoarding, as well as pre and post-construction arboricultural works.

##### **2. Preserve & Protect**

Includes the installation of tree protection hoarding; no maintenance will be required unless specified in the recommendations in Appendix 1

**3. Retain**

No protection or maintenance measures are required. Installation of tree protection barriers is optional.

**4. Transplanting**

Where size of tree permits transplanting, it is recommended that moving a tree to a location that would suit the tree.

|   |  |
|---|--|
| # of Trees evaluated as suitable for Preservation | 31                                     |
| # of Trees to use Method 1                        |  |
| # of Trees to use Method 2                        | 1241 – 1244, 1246 – 1267, 1303 – 1307, |
| # of Trees to use Method 3                        | Grouping 3                             |
| # of Trees to use Method 4                        |  |

In the case of 5916 Trafalgar Road North, 31 trees individually inventoried trees and 1 grouping of trees can be preserved on site. Trees that will be protected with hoarding are all trees the subject site that are not proposed to be removed. Trees suitable for preservation must be preserved only through the full implementation of the Tree Care Recommendations, Tree Preservation Plan and Tree Preservation Guidelines contained in this report for trees to continue to survive.

*3.2 Trees to Remove*

All trees scheduled for removal shall be removed prior to any construction, earthworks or installation of tree protection hoarding. Due to site or development, tree condition or location, retention is not warranted. All trees and groupings of trees, except for tree 1241 – 1244, 1246 – 1267, 1303 – 1307, and Grouping 3 will be required to be removed due to development impact.

|                                    |  |
|------------------------------------|--|
| Total of number of Trees to Remove | All except 1241 – 1244, 1246 – 1267, 1303 – 1307, grouping 3 |
|------------------------------------|--|

*3.3 Trees to Injure*

There are no trees to be injured. All trees except those outside of development area or near the development limit are to be removed.

### 3.4 *Trees to Replant (Replacement)*

Replacement planting requirements must still be negotiated with the Town of Erin and will be coordinated into a Landscape Plan at the Design Stage.

### 3.5 *Trees to Transplant*

The only area where the stock of species is valuable enough to consider transplanting and where exists the appropriate sizing where transplanting may be successful is at the east area of proposed Block 4 (Swim Pond). Due to the extremely large and long slope where all of these tree exist and the density of which they have grown, it is therefore not feasible to transplant any trees. All other areas on the property have trees that are too large, are considered invasive species, or are among other trees where transplanting would be too difficult to achieve with roots being intertwined with other trees.

## 4.0 ***Tree Preservation, Protection and Management***

### 4.1 *Tree Protection*

All trees scheduled to be *Preserved Protected & Maintained* or *Preserved & Protected* shall have their critical rooting zones protected with the installation of tree protection barriers. Tree protection barriers shall be installed as per Town of Erin Barriers Detail.

### **5.0 Conclusions and Recommendations**

Based on all data collected from on-site field work and review of all site plans the following conclusions and recommendations are made and correspond with Tree Inventory in Appendix 1:

| Conclusions  | Recommendations   |
|--|---|
| All trees within the development are to be removed except where tree protection is proposed.   | Submit this plan to Town of Erin.   |
| 31 trees are to be preserved & protected to the full extent of minimum tree protection distances and maintained during construction. | Install tree protection barriers as shown in Tree Protection Plan Drawing TP-1 in appendix 2. |
| Replacement trees are to be determined with the Town of Erin.  | Create Replanting Plan at Design Stage.   |

Attachments are as follows:

- Appendix 1 Tree Inventory
- Appendix 2 Tree Protection Plan Drawing TP-1

This 7 page Report was written by



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**Part 1 and Part 2 Lot 26 Concession 7 Town of Erin - Tree Inventory August 31, 2021**

| Tag # | Common Name               | Botanical Name         | Diameter at Breast Height CM | Health Condition | Structural Condition | Notes   | Recommendations Based on Site Plan and Assessment |
|-------|---------------------------|------------------------|------------------------------|------------------|----------------------|---|---|
| 1232  | Sugar Maple               | Acer saccharum         | 94                           | Good             | Good                 | Along driveway to house.  | Remove  |
| 1233  | Sugar Maple               | Acer saccharum         | 58                           | Good             | Good                 |   | Remove  |
| 1234  | Sugar Maple               | Acer saccharum         | 79                           | Good             | Average/Poor         | Co-dominant, decay on West side.  | Remove  |
| 1235  | Sugar Maple               | Acer saccharum         | 81                           | Good             | Good                 |   | Remove  |
| 1236  | Eastern White Cedar Hedge | Thuja occidentalis     | 10 to 30                     | Good             | Good                 | Large Cedar Hedge – 54 trees in a row, approx. 200 ft.  | Remove  |
| 1237  | Manitoba Maple            | Acer negundo           | 20x20x15x20                  | Good             | Good                 |   | Remove  |
| 1238  | Norway Spruce             | Picea abies            | 20                           | Good             | Good                 | On other side of hill.  | Remove  |
| 1239  | Manitoba Maple            | Acer negundo           | 15-20                        | Good             | Good                 | Clump of Manitoba Maple on old fence line, clump of 4 with 15-20 DBH CM.  | Remove  |
| 1240  | Manitoba Maple            | Acer negundo           | 38                           | Good             | Good                 | On fence line   | Remove  |
| 1241  | Basswood                  | Tilia americana        | 75x60x50x65x55               | Good             | Average/Poor         | 1 broken stem on neighbouring property near property line, hanging over property. Behind 3 <sup>rd</sup> house from the left. | Retain  |
| 1242  | Basswood                  | Tilia americana        | 100                          | Average          | Poor                 | Behind 2 <sup>nd</sup> house from west. Along fence line. Has cavity.   | Retain  |
| 1243  | Green Ash                 | Fraxinus pennsylvanica | 34                           | Average          | Average              | On fence line. Behind 1 <sup>st</sup> house from the south west.  | Retain  |
| 1244  | Manitoba Maple            | Acer negundo           | 37                           | Average          | Poor                 | On fence line. Behind 1 <sup>st</sup> house from the south west.  | Retain  |
| 1245  | Manitoba Maple            | Acer negundo           | 30                           | Average          | Average              | At south west corner  | Remove  |
| 1246  | Black Cherry              | Prunus serotina        | 80                           | Poor             | Average/Poor         | Significant deadwood on western property line.  | Retain  |
| 1247  | Mountain Ash              | Sorbus aucuparia       | 30x12x12                     | Good             | Good                 |   | Retain  |
| 1248  | White Ash                 | Fraxinus americana     | 25x20                        | Good             | Good                 |   | Retain  |
| 1249  | Black Cherry              | Prunus serotina        | 30                           | Average          | Average              |   | Retain  |
| 1250  | Black Cherry              | Prunus serotina        | 40                           | Average          | Average              |   | Retain  |
| 1251  | Basswood                  | Tilia americana        | 100                          | Average          | Poor                 | Has major split and failure.  | Retain  |
| 1252  | Black Cherry              | Prunus serotina        | 20                           | Good             | Good                 | On boundary line.   | Retain  |
| 1253  | Black Cherry              | Prunus serotina        | 30x30                        | Good             | Good                 | On boundary line.   | Retain  |
| 1254  | White Ash                 | Fraxinus americana     | 28                           | Good             | Good                 | On boundary line.   | Retain  |
| 1255  | Manitoba Maple            | Acer negundo           | 50                           | Average          | Average              | On boundary line.   | Retain  |
| 1256  | Manitoba Maple            | Acer negundo           | 30                           | Average          | Average              | On boundary line.   | Retain  |
| 1257  | Manitoba Maple            | Acer negundo           | 30                           | Average          | Average              | On boundary line.   | Retain  |
| 1258  | Black Cherry              | Prunus serotina        | 30-40                        | Average          | Average              | On boundary line.   | Retain  |
| 1259  | Black Cherry              | Prunus serotina        | 37x15x15                     | Average          | Average              | On boundary line. Last one on the South West boundary line.   | Retain  |
| 1260  | Black Cherry              | Prunus serotina        | 50                           | Average          | Average              |   | Retain  |
| 1261  | Sugar Maple               | Acer saccharum         | 55                           | Good             | Good                 |   | Retain  |
| 1262  | Black Cherry              | Prunus serotina        | 40                           | Good             | Good                 |   | Retain  |
| 1263  | Black Cherry              | Prunus serotina        | 50                           | Good             | Good                 |   | Retain  |
| 1264  | Sugar Maple               | Acer saccharum         | 45                           | Good             | Good                 |   | Retain  |
| 1265  | Sugar Maple               | Acer saccharum         | 45                           | Good             | Good                 |   | Retain  |
| 1266  | Sugar Maple               | Acer saccharum         | 45                           | Good             | Good                 |   | Retain  |
| 1267  | Sugar Maple               | Acer saccharum         | 45                           | Good             | Good                 |   | Retain  |
| 1268  | Sugar Maple               | Acer saccharum         | 88                           | Good             | Good                 |   | Remove  |
| 1269  | Black Cherry              | Prunus serotina        | 55                           | Average          | Average              | Broken branch in  | Remove  |
| 1270  | American Elm              | Ulmus americana        | 47x47                        | Good             | Good                 |   | Remove  |
| 1271  | Basswood                  | Tilia americana        | 45x25x25                     | Good             | Good                 |   | Remove  |
| 1272  | Basswood                  | Tilia americana        | 45x25x25                     | Good             | Good                 |   | Remove  |
| 1273  | Mountain Ash              | Sorbus aucuparia       | 28x22                        | Good             | Good                 |   | Remove  |
| 1274  | Black Cherry              | Prunus serotina        | 30                           | Good             | Good                 |   | Remove  |
| 1275  | Basswood                  | Tilia americana        | 30x26                        | Good             | Good                 |   | Remove  |
| 1276  | Basswood                  | Tilia americana        | 35x40x33                     | Good             | Good                 |   | Remove  |
| 1277  | Basswood                  | Tilia americana        | 20x25x27                     | Good             | Good                 |   | Remove  |
| 1278  | Sugar Maple               | Acer saccharum         | 26                           | Good             | Good                 |   | Remove  |
| 1279  | Manitoba Maple            | Acer negundo           | 28x20x20                     | Good             | Good                 | Surrounded by smaller Manitoba Maples   | Remove  |
| 1280  | Manitoba Maple            | Acer negundo           | 28x20x20                     | Good             | Good                 | Surrounded by smaller Manitoba Maples   | Remove  |
| 1281  | Manitoba Maple            | Acer negundo           | 28x20x20                     | Good             | Good                 | Surrounded by smaller Manitoba Maples   | Remove  |
| 1282  | Manitoba Maple            | Acer negundo           | 28x20x20                     | Good             | Good                 | Surrounded by smaller Manitoba Maples   | Remove  |
| 1283  | Black Cherry              | Prunus serotina        | 25                           | Good             | Good                 | Surrounded by smaller Manitoba Maples   | Remove  |
| 1284  | Apple Tree                | Malus domestica        | 80                           | Dead             | Dead                 |   | Remove  |
| 1285  | Black Cherry              | Prunus serotina        | 25                           | Good             | Good                 |   | Remove  |
| 1286  | Manitoba Maple            | Acer negundo           | 25x20x20                     | Good             | Good                 |   | Remove  |
| 1287  | Black Cherry              | Prunus serotina        | 35                           | Good             | Good                 |   | Remove  |
| 1288  | Manitoba Maple            | Acer negundo           | 25                           | Good             | Good                 |   | Remove  |
| 1289  | White Ash                 | Fraxinus americana     | 38                           | Very Poor        | Very Poor            | 50% dead  | Remove  |
| 1290  | Apple Tree                | Malus domestica        | 30x30                        | Good             | Good                 |   | Remove  |
| 1291  | Black Cherry              | Prunus serotina        | 24                           | Average          | Average              |   | Remove  |
| 1292  | Manitoba Maple            | Acer negundo           | 35                           | Average          | Average              |   | Remove  |
| 1293  | Black Cherry              | Prunus serotina        | 42                           | Average          | Average              |   | Remove  |
| 1294  | American Elm              | Ulmus americana        | 70                           | Average          | Average              |   | Remove  |
| 1295  | Black Cherry              | Prunus serotina        | 40x25x30                     | Average          | Average              |   | Remove  |
| 1296  | Black Cherry              | Prunus serotina        | 30                           | Average          | Average              | North of pathway, covered in vines.   | Remove  |
| 1297  | Black Cherry              | Prunus serotina        | 40                           | Average          | Average              | North of pathway, covered in vines.   | Remove  |
| 1298  | Black Cherry              | Prunus serotina        | 25                           | Average          | Average              | North of pathway, covered in vines.   | Remove  |
| 1299  | Mountain Ash              | Sorbus aucuparia       | 20                           | Average          | Average              | North of pathway, covered in vines.   | Remove  |
| 1300  | Mountain Ash              | Sorbus aucuparia       | 35                           | Average          | Average              | North of pathway, covered in vines.   | Remove  |
| 1301  | Sugar Maple               | Acer saccharum         | 60                           | Good             | Good                 |   | Remove  |

|         |                            |                                |                       |         |         |  |        |
|---------|----------------------------|--------------------------------|-----------------------|---------|---------|--|--------|
| 1302    | Sugar Maple                | Acer saccharum                 | 60                    | Good    | Good    |  | Remove |
| 1303    | Sugar Maple                | Acer saccharum                 | 60                    | Good    | Good    |  | Retain |
| 1304    | Sugar Maple                | Acer saccharum                 | 60                    | Good    | Good    |  | Retain |
| 1305    | Sugar Maple                | Acer saccharum                 | 60                    | Good    | Good    |  | Retain |
| 1306    | Sugar Maple                | Acer saccharum                 | 60                    | Good    | Good    |  | Retain |
| 1307    | Sugar Maple                | Acer saccharum                 | 60                    | Good    | Good    |  | Retain |
| 1308    | Mountain Ash               | Sorbus aucuparia               | 30                    | Poor    | Poor    |  | Remove |
| 1309    | Manitoba Maple             | Acer negundo                   | 20x15                 | Good    | Good    | Beside Mountain Ash  | Remove |
| 1310    | Black Cherry               | Prunus serotina                | 38                    | Average | Average |  | Remove |
| 1311    | Manitoba Maple             | Acer negundo                   | 70                    | Average | Average |  | Remove |
| Group 1 | White Pine Plantation      | Pinus strobus                  | 10 to 20              | Good    | Good    | Group 1 - Juvenile white pine, red pine, white spruce, manitoba maple, eastern white cedar, tamarack, & ash. Planted on top of slope to bottom of slope. Density, 1 for every 4 meter squared. | Remove |
|         | Red Pine Plantation        | Pinus resinosa                 | 10 to 20              | Good    | Good    | Group 1 - Juvenile white pine, red pine, white spruce, manitoba maple, eastern white cedar, tamarack, & ash. Planted on top of slope to bottom of slope. Density, 1 for every 4 meter squared. | Remove |
|         | White Spruce Plantation    | Picea glauca                   | 10 to 20              |         |         | Group 1 - Juvenile white pine, red pine, white spruce, manitoba maple, eastern white cedar, tamarack, & ash. Planted on top of slope to bottom of slope.                                       | Remove |
| Group 2 | Juvenile Red Pine          | Pinus resinosa                 | 20 - 30, and 10 - 20. | Good    | Good    | Starting at property line and half way down slope. 7 that are 20-30 DBH CM, 25 that are 10-20 DBH CM. The bigger pines are at the top of the hill.   | Remove |
| Group 3 | Norway Spruce & Scots Pine | Picea abies / Pinus sylvestris |                       | Good    | Good    | 2 Norway Spruce and 6 Scot's Pine on neighbouring property, 3 meters or greater from property line. Also, 3 Norway Spruce and 1 Manitoba Maple .   | Retain |
| Group 4 | Manitoba Maple             | Acer negundo                   | 10 to 20              |         |         | 9 Juvenile Manitoba Maples, 10 to 20 DBH CM.   | Remove |
| Group 5 | Manitoba Maple             | Acer negundo                   | 5 to 20               | Average | Average | 16 Juvenile Manitoba Maple   | Remove |
| Group 6 | Manitoba Maple             | Acer negundo                   | 5 to 20               | Average | Average | 3 Juvenile Manitoba Maple  | Remove |



# Appendix 1: Typical Detail Drawings

## NHF-400: Tree Protection Zone (TPZ) barriers

