

STRAW HAT RESTORATION

ARBORIST REPORT AND TREE PROTECTION PLAN

BLACKMOOR GATES VENTURE, TOWN OF
COLLINGWOOD

DECEMBER 22, 2017





ARBORIST REPORT AND TREE PROTECTION PLAN

BLACKMOOR GATES VENTURE, TOWN OF COLLINGWOOD

STRAW HAT RESTORATION

PROJECT NO.: 17M-01364-00
DATE: DECEMBER 22, 2017

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December 22, 2017

Straw Hat Restoration
325 Willard Avenue
Toronto, Ontario
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Attention: Mr. Jame Harrison and Mr. Jason Harrison

Dear Mr. James Harrison & Mr. Jason Harrison:

**Subject: Arborist Report and Tree Protection Plan
Blackmoor Gates Venture, Town of Collingwood**

WSP Canada Inc. (WSP) is pleased to provide you with this Arborist Report and Tree Protection Plan in support of the proposed development of Blackmoor Gates Venture, Collingwood, Ontario.

This report is based on the results of an inventory for trees within 6 m of the project with the potential to be impacted by disturbances associated with the development construction. Due to the unavoidable encroachment into the designated tree protection zones of trees within the vicinity of the construction area, an arborist report has been completed along with the tree protection plan to address potential impacts to trees.

Thank you for the opportunity to complete this assignment. Please contact the undersigned with any questions or comments.

Yours truly,

A handwritten signature in blue ink, appearing to read 'Dan Reeves'.

Dan Reeves, M.Sc.
Project Arborist

WMB/nah

WSP ref.: 17M-01364-00

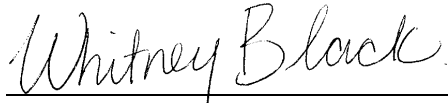
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1 INTRODUCTION

WSP Canada Inc. (WSP) was retained to complete an Arborist Report and Tree Protection Plan for a site known as Blackmoor Gates Venture subdivision. The site is composed of several residential lots, the largest of which is 774 Hurontario Street, located within the Town of Collingwood, Simcoe County; herein referred to as the “Study Area”.

Trees greater than 10 cm diameter at breast height (DBH) within the study area were inventoried and assessed based on their health and condition at the time of the report preparation. This report is based on the results of an inventory of all trees on, and directly adjacent to the property in compliance with the Town of Collingwood Tree Preservation and Protection By-Law No. 2012-084. Due to the unavoidable encroachment into the designated tree protection zones of trees within the vicinity of the construction area, an arborist report has been completed along with the tree protection plan to address potential impacts to trees

2 STUDY METHODOLOGY

An inventory was completed on November 1, 2017 for for all trees within the study area with the potential to be impacted by disturbances associated with the proposed development plans. The following information was obtained for each tree:

- Tree number or grouping;
- Tree species (common and scientific names – genus and species);
- Diameter at breast height (DBH);
- Tree condition (structure and vigour);
 - GOOD - dead branches less than 10%; signs of good compartmentalization on any wounds, no structural defects.
 - FAIR – 10-30% dead branches, size or occurrence of wounds present some concerns, minor structural defects.
 - POOR – more than 30% dead branches, weak compartmentalization, early leaf drop, presence of insects or disease, major structural defects.
 - DEAD – tree shows no signs of life.
- Evidence of insect or fungal infection;
- Evaluation of the dripline;
- General comments including structural integrity, significant lean, etc.; and,
- A picture of the tree for reference records.

For areas that had high densities of trees, hedgerows were identified based on edge of canopies.

The following information of was obtained for each grouping:

- An estimate of overall number of stems;
- Tree species (common and scientific names – genus and species);
- Range of stem sizes; and,
- Overall group condition.

The results from the tree inventory were used to create a tree protection plan (TPP), which identifies and details tree protection methodology. The TPP includes details the tree protection zone (TPZ) for each tree is identified by applying the accepted minimum protection distances for trees, as specified within the Town of Collingwood Tree Preservation and Protection By-Law No. 2012-084. The TPP includes details on the appropriate use of the TPZ, tree protection fencing, and general notes on best management practices.

This arborist report identifies the trees required to be removed to develop the study area, those that will be retained and protected, and those for which injury may occur but may be retained and protected using appropriate treatment and preservation methods. For trees within the Study Area, the ‘potential for injury’ is defined as encroachment into the identified TPZ. Recommendations are provided for appropriate treatment of trees that will be retained and protected, but may suffer injury due to encroachment into their respective TPZs.

3 CONTACT INFORMATION

APPLICANT:

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4 LOCATION OF THE TREES

The Study Area is composed of several residential lots, the largest of which is 774 Hurontario Street, located within the Town of Collingwood, Simcoe County. In addition to the parcel at 774 Hurontario, the proposed project footprint has road frontage along Hurontario Street in the east, Campbell Street to the north, and Findlay Drive to the south. Tree cover consisted of a variety of planted landscape and orchard trees, along with occasional Norway Spruce (*Picea abies*) and Eastern White Cedar (*Tsuga occidentalis*) hedgerows. Common Apple (*Malus pumilo*) was a dominant tree species, while other common species included Scots Pine (*Pinus sylvestris*), Norway Spruce Manitoba Maple (*Acer negundo*) and Norway Maple (*Acer platanoides*). Occasional Sugar Maple (*Acer saccharum*), Black Locust (*Robinia pseudoacacia*), Black Walnut (*Juglans nigra*), White Spruce (*Picea glauca*), and White Birch (*Betula papyrifera*) were also noted. The specific location of each tree is represented on the Tree Inventory and Preservation Plan (Figures 1-4).

5 TREE INVENTORY

A total of 152 individual assessed trees were located within the study area ranging from 12 to 67 cm DBH; 3 hedgerows were also assessed during the tree inventory where 15 additional trees were found. Within the study area, 15 tree species or varieties were inventoried (Table 1).

Table 1 Trees within the Study Area

COMMON NAME	LATIN NAME	NUMBER OF TREES
Apple species	<i>Malus</i> sp.	43
Black Locust	<i>Robinia pseudoacacia</i>	1
Black Walnut	<i>Juglans nigra</i>	1
Colorado Spruce	<i>Picea pungens</i>	4
Eastern White Cedar	<i>Thuja occidentalis</i>	9
Manitoba Maple	<i>Acer negundo</i>	16
Norway Maple	<i>Acer platanoides</i>	5
Norway Spruce	<i>Picea abies</i>	55
Scots Pine	<i>Pinus sylvestris</i>	3
Sugar Maple	<i>Acer saccharum</i>	1
White Ash	<i>Fraxinus Americana</i>	1
White Birch	<i>Betula papyrifera</i>	3
White Mulberry	<i>Morus alba</i>	1
White Pine	<i>Pinus strobus</i>	1
White Spruce	<i>Picea glauca</i>	8
Totals		152

Of the 152 trees inventoried in terms of overall structure and vigor, 59 (38%) were evaluated to be in good condition, 22 (15%) in good- fair condition, 22 (15%) in fair condition, 36 (24%) in fair-poor condition, and 12 (8%) in poor or very poor condition. Refer to Figures 1-4 and Appendix A for results of the tree inventory.

6 TREE PROTECTION AND REMOVAL PLAN

6.1 TREES TO BE REMOVED

Of the 128 individually assessed trees and 15 trees within the hedgerows, 97 are proposed to be removed to permit the proposed development. For these trees, the recommended Tree Protection Zone for trees in RNFP areas cannot be maintained; and for some, factors including poor health conditions support the decision for removal. Details for trees proposed for removal are shown in Figures 1-4 and Appendix A.

6.2 TREES TO BE RETAINED

The area of disturbance associated with the future development is outside the minimum Tree Protection Zones of 44 of the surveyed trees (Figures 1-4 and Appendix A), and are not considered to have the potential for impact. In these instances, tree protection fencing has been proposed within the working area to protect their TPZ, which should not impinge on construction movement due to the overall surrounding width of the work area.

These 44 trees to be retained will not require specific preservation methods, but should receive general preservation methods as described in the following section. Trees to be retained are shown on Figures 1-4.

6.2.1 GENERAL PROTECTION AND PRESERVATION METHODS

General protection and preservation methods are described on Figures 1-4: Tree Protection Plan. In addition to the measures indicated on Figures 1-4 the following should also be implemented:

- Upon receiving the necessary approvals and prior to commencement of tree removals, all trees and areas designated for tree protection must be staked or flagged in the field. All trees within the tree protection zone must be left standing. The removals are to be completed outside of the migratory bird nesting season, approximately end of March to end of August.
 - Tree protection fencing should be installed as per Figure 1-4 around trees and areas designated for preservation. Installation should follow details and specifications as approved by the Town of Collingwood tree by-law officer. Tree protection fencing should be orange snow fencing at 1.2 m high, supported by 2" x 4" braces on the outside of the TPZ. If construction is near this fencing, 1.2 m tall plywood panels on scaffold poles is recommended.
 - A sign indicating "TREE PROTECTION ZONE" should be mounted regular intervals along the Tree Protection fence. This sign should be a minimum of 40 cm x 60 cm white gator board or similar. Additional information on the sign should include "No grade change, storage, of materials or equipment is permitted within this TPZ. Tree Protection Fencing is to remain in effective condition until all site activities including landscaping are complete.
 - To avoid soil compaction, machinery operation is to stay within the work area and avoid the area delineated by the tree protection fencing. No grade changes shall occur within the tree protection zone unless approved as part of this report. In the event that any grade changes may occur, either as a cut or fill situation, the Contact Administrator must be notified prior to such work occurring and ensure that all precautions to preserve the tree can be made.
 - To avoid root zone impacts on trees to be retained, excavated material will not be stored against or in tree protection zone.
 - In the event that it is necessary to remove additional limbs or portions of trees after construction has commenced, the Consulting Arborist or Contract Administrator is to be informed and under the removal is to be executed carefully and in full accordance with arboricultural techniques, by a certified arborist.
-

6.2.2 SPECIFIC PRESERVATION METHODS

The proposed development and surrounding work area encroach into the Tree Protection Zone of eleven additional trees (#513, 523, 579, OS3, OS4, OS5, OS6, OS7, OS8, OS9 and OS10), the trees can be retained provided specific preservation methods are implemented. Three of the trees are neighbouring trees. Information for the tree, including recommended actions, is provided in Table 2. Details of recommended treatment or specific preservation methods are provided in Table 3. General protection and preservation methods, as outlined above will also be applied for this tree.

Table 2 Trees to be Retained Requiring Specific Preservation Methods

TREE NUMBER	SPECIES	DBH (CM)	CONDITION	RECOMMENDED ACTION*
513	Norway Spruce	61	This tree is in fair condition with less than 10% deadwood. The tree is leaning slightly. Minor encroachment into its TPZ will occur during the construction. This tree is considered retainable.	Retain and Protect with specific preservation methods #1 - 3
523	Norway Spruce	60	This tree is in good condition with less than <10% deadwood. Minor encroachment into its TPZ will occur during construction. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3
579	White Birch	46	This tree is in fair condition with 40% deadwood. Minor encroachment into its TPZ will occur during the construction. This tree is considered retainable.	Retain and Protect with specific preservation methods #1 – 3
OS3	White Spruce	18	This tree is in good condition with less than 10% deadwood. Minor encroachment into the TPZ will occurring during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protection with specific preservation methods #1-3
OS4	Norway Spruce	45	This tree is in good condition with 15% deadwood. Minor encroachment into its TPZ will occur during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1 – 3
OS5	Norway Spruce	40	This tree is in good condition with 15% deadwood. Minor encroachment into its TPZ will occur during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3
OS6	Norway Spruce	30	This tree is in fair condition with 25% deadwood. Minor encroachment into its TPZ will occur during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3
OS7	Colorado Spruce	20	This tree is in good condition with less than 10% deadwood. Minor encroachment into its TPZ will occur construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3
OS8	White Spruce	30	This tree is in good condition with less than 10% deadwood. Minor encroachment into its TPZ will occur during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3

TREE NUMBER	SPECIES	DBH (CM)	CONDITION	RECOMMENDED ACTION*
OS9	Colorado Spruce	30	This tree is in good condition with less than 10% deadwood. Minor encroachment into its TPZ will occur during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3
OS10	Colorado Spruce	35	This tree is in good condition with less than 10% deadwood. Minor encroachment into its TPZ will occur during construction. The tree is located on the adjacent property. This tree is considered retainable.	Retain and Protect with specific preservation methods #1-3

*Refer to Table 3.

Table 3 Preservation / Treatment Methods

METHOD	DETAILS
1	Any branches that overhang the work area and require pruning are to be pruned using good arboricultural practices utilizing by-pass secateurs in accordance with approved horticultural practices and/or American National Standard (ANSI) A300 (Part 1)- 2008 Pruning.
2	Ensure the tree receives adequate water during summer dry periods.
3	Use a low pressure water hydro vac method and cutter to make a clean cut of the roots if excavation goes into the root system. Subsequently, put mulch over exposed root and water soil if needed to maintain moisture.

7 SUMMARY AND CONCLUSIONS

Each tree was inventoried and analyzed to optimize tree protection during the construction and installation of the proposed development. Of the 152 trees inventoried including hedgerows, 97 are to be retained and protected using the general preservation methods outlined, namely protection of the designated TPZ and installation of tree protection fencing. Eleven trees are to be retained and protected using specific preservation methods. An additional 44 trees can be preserved using more specific preservation methods, as outlined above. This Arborist Report and Tree Protection Plan minimizes the number of trees that are to be removed and provides recommended actions to protect and retain the maximum number of trees in good condition.

8 CLOSURE

This report has been prepared by WSP Canada Inc. The assessment represents the conditions at the Site only at the time of the assessment, and is based on the information referenced and contained in this report. WSP Canada Inc. attests that to the best of our knowledge, the information presented in this report is accurate. The use of this report for other projects without written permission of the Client and WSP Canada Inc. is solely at the user's own risk. This report must be reviewed and approved by the relevant regulating agencies prior to being relied upon for planning and/or construction purposes.

Thank you for the opportunity to complete this report. We trust that this information is satisfactory for your current requirements. Please contact us if we can be of further assistance.

9 LITERATURE CITED

- Town of Collingwood. 2012. By-law No 2012-084 By-law to Prohibit and Regulate the Destruction or Injury of Trees in the Town of Collingwood. 11 pp.

FIGURES



GENERAL NOTES:

- PRIOR TO COMMENCEMENT OF ANY SITE ACTIVITY THE TREE PROTECTION FENCING SPECIFIED ON THIS PLAN MUST BE INSTALLED AND SHALL BE APPROVED FORMALLY BY THE TOWN OF COLLINGWOOD PRIOR TO COMMENCING ANY TREE REMOVAL, CLEARING OR GRUBBING OPERATIONS.
- TREE PROTECTION FENCING MUST REMAIN IN EFFECTIVE CONDITION UNTIL ALL SITE ACTIVITIES INCLUDING LANDSCAPING ARE COMPLETE.
- AFTER TREE REMOVALS AND PRIOT TO THE ISSUANCE OF THE UNDERGROUND CERTIFICATE, THE TOWN WILL RE-INSPECT THE TREE PRESERVATION AREAS. ANY ADDITIONAL TREE REMOVALS OR TREE PRUNING WILL BE IDENTIFIED AND EXECUTED BY THE CONTRACTOR.

TREE PRESERVATION AND PROTECTION RECOMMENDATIONS

ESTABLISHMENT OF TREE PROTECTION ZONES:

- TREE PROTECTION FENCING WILL BE USED TO ESTABLISH THE TPZ FOR TREES WITHIN THE VICINITY OF THE CONSTRUCTION SITE THAT ARE TO BE PRESERVED.
- NO GRADE CHANGES SHALL OCCUR WITHIN THE TPZ. IN THE EVENT THAT GRADE CHANGES OCCUR AS A RESULT OF A CUT OR FILL SITUATION, THE CONSULTING ARBORIST MUST BE NOTIFIED SO THAT PRECAUTIONS TO PRESERVE THE TREE CAN BE TAKEN PRIOR TO THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES.
- WHERE BRANCHES OVERHANG OR EXTEND INTO THE CONSTRUCTION ZONE AND MAY BE IMPACTED BY MACHINERY, THE BRANCHES SHOULD BE PRUNED BEFORE EXCAVATION ACTIVITIES ARE COMMENCED. PRUNING SHOULD BE LIMITED TO LESS THAN 20% OF THE TREE'S CROWN AND SHOULD BE COMPLETED BY A CERTIFIED ARBORIST OR QUALIFIED TREE PROFESSIONAL.
- DAMAGE TO TREES, INCLUDING BROKEN LIMBS, DAMAGE TO ROOTS, OR WOUNDS TO THE MAIN TRUNK MUST BE REPORTED TO THE CONSULTING ARBORIST IMMEDIATELY SO THAT MITIGATION MEASURES CAN BE PROMPTLY IMPLEMENTED.
- THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE TPZ:
 - CONSTRUCTION;
 - ALTERING OF GRADE BY ADDING FILL, EXCAVATING, TRENCHING OR DISTURBANCE OF ANY KIND;
 - STORAGE OR STOCKPILING OF MATERIALS, EQUIPMENT, SOIL, CONSTRUCTION WASTE OR DEBRIS;
 - DISPOSAL OF ANY LIQUIDS;
 - MOVEMENT OF VEHICLES, EQUIPMENT, OR PEDESTRIANS; AND
 - PARKING OF VEHICLES OR MACHINERY.
- SHOULD ANY WORK BEYOND THAT IDENTIFIED ON THIS PLAN BE REQUIRED WITHIN THE TPZ, THE CONTRACTOR AND THE CONSULTING ARBORIST SHALL CONTACT THE TOWN OF COLLINGWOOD.

TREE PROTECTION FENCING/HOARDING FENCING:

- FENCING SHOULD BE INSTALLED OUTSIDE THE TPZ, BETWEEN THE AREAS OF PROPOSED DEVELOPMENT AND RETAINED TREES, AS INDICATED ON THE TREE PROTECTION PLAN, TO REDUCE THE POTENTIAL FOR PHYSICAL DAMAGE TO THE TREES AND THEIR ROOT SYSTEMS.
- INSTALLATION SHOULD FOLLOW DETAILS AND SPECIFICATIONS OUTLINED IN THE CITY OF TORONTO TREE PROTECTION POLICY AND SPECIFICATIONS FOR CONSTRUCTION NEAR TREES (2016) OR AS APPROVED BY CITY OF TORONTO URBAN FORESTRY, RAVINE AND NATURAL FEATURE PROTECTION.
- FENCING SHOULD BE 1.2 M (4 FT) HIGH PLYWOOD HOARDING ON A2" X 4" BRACING FRAME LOCATED OUTSIDE THE TPZ.
- ALTERNATIVELY, FAST FENCE (MODULOC OR EQUIVALENT) IS ACCEPTABLE, BUT EACH SEGMENT MUST BE SECURED TO THE GROUND USING T-BAR AND BRACED TO THE NEXT SEGMENT.
- TREE PROTECTION FENCING SHOULD BE INSTALLED BEFORE WORK ON THE SITE BEGINS AND INSPECTED REGULARLY TO ENSURE IT IS PERFORMING ITS INTENDED FUNCTION. IF ANY SECTION IS FOUND TO BE DAMAGED OR NON-FUNCTIONAL IT SHOULD BE REPLACED IMMEDIATELY.

TREE REMOVAL:

- TREES ARE TO BE FELLED INTO THE CONSTRUCTION AREA SO AS TO REDUCE THE POTENTIAL FOR INJURY/DAMAGE TO NEIGHBOURING TREES.
- TO AVOID INTERFERENCE WITH THE EGGS, NESTS OR YOUNG OF BIRDS PROTECTED UNDER THE FEDERAL MIGRATORY BIRDS CONVENTION ACT (GOVERNMENT OF CANADA, 1994), REMOVALS SHOULD NOT OCCUR FROM MAY 1 TO JULY 31 OF ANY GIVEN YEAR. IDEALLY, REMOVAL SHOULD OCCUR FROM AUGUST THROUGH DECEMBER TO AVOID INTERFERENCE WITH ALL NESTING BIRDS. SHOULD REMOVAL BE REQUIRED WITHIN THE APRIL 1 TO AUGUST 1 BREEDING PERIOD, A QUALIFIED AVIAN BIOLOGIST SHOULD CONDUCT A THOROUGH SURVEY IMMEDIATELY PRIOR TO THE DESIRED TREE REMOVAL DATE TO CONFIRM PRESENCE OR ABSENCE OF PROTECTED SPECIES. IF PROTECTED SPECIES ARE PRESENT, REMOVAL CANNOT OCCUR WITHOUT A PERMIT FROM THE CANADIAN WILDLIFE SERVICE.

RESTORATION OF DISTURBED AREAS

TOPSOIL REMOVED DURING SITE GRADING SHOULD BE STORED IN A DESIGNATED STOCKPILING AREA AND USED DURING SITE RESTORATION. FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITIES, DISTURBED AREAS SHOULD BE GRADED TO MATCH PRECONSTRUCTION CONDITIONS AND COMPACTED SOILS BEYOND THE DEVELOPMENT AREA SHOULD BE DECOMPACTED BY SCARIFICATION OR A SIMILAR APPROVED METHOD PRIOR TO REPLACEMENT OF RESERVED TOPSOIL. AREAS OF DISTURBED/ EXPOSED SOILS BEYOND THE DEVELOPMENT AREA SHALL BE STABILIZED AND RE-VEGETATED USING AN APPROVED NATIVE SEED MIX. IF REQUIRED, UP TO 15 CM OF CONTAMINANT-FREE AND WEED-FREE TOPSOIL SHOULD BE APPLIED TO THE DISTURBED AREA PRIOR TO APPLYING THE SEED MIX.

TREE #	COMMON NAME	SCIENTIFIC NAME	(DBH (cm))	CONDITION (G/F/P)		TREE PROTECTION ZONE (m)	RECOMMENDATIONS
				STRUCTURE	VIGOUR		
533	MANITOBA MAPLE	ACER NEGUNDO	54	F	F	3.6	REMOVE
534	MANITOBA MAPLE	ACER NEGUNDO	32,27	P	F	3	REMOVE
535	NORWAY SPRUCE	PICEA ABIES	58	G	G	3.6	REMOVE
536	NORWAY SPRUCE	PICEA ABIES	64	F	F	4.2	REMOVE
537	NORWAY SPRUCE	PICEA ABIES	67	F	F	4.2	REMOVE
538	MANITOBA MAPLE	ACER NEGUNDO	32	F	F	2.4	REMOVE
539	MANITOBA MAPLE	ACER NEGUNDO	32	F	F	2.4	REMOVE
540	APPLE SPECIES	MALUS SP.	30,19,34	P	F	3	REMOVE
541	APPLE SPECIES	MALUS SP.	21,17	P	F	2.4	REMOVE
542	APPLE SPECIES	MALUS SP.	18	P	P	1.8	REMOVE
543	APPLE SPECIES	MALUS SP.	34	P	F	2.4	REMOVE
544	APPLE SPECIES	MALUS SP.	26	P	F	1.8	REMOVE
545	APPLE SPECIES	MALUS SP.	14,27	P	F	2.4	REMOVE
547	APPLE SPECIES	MALUS SP.	37	P	P	2.4	REMOVE
548	APPLE SPECIES	MALUS SP.	16	P	P	1.8	REMOVE
549	APPLE SPECIES	MALUS SP.	16	P	F	1.8	REMOVE
550	APPLE SPECIES	MALUS SP.	16	P	F	1.8	REMOVE
551	APPLE SPECIES	MALUS SP.	14	P	F	1.8	REMOVE
552	APPLE SPECIES	MALUS SP.	29	P	F	1.8	REMOVE
553	APPLE SPECIES	MALUS SP.	12	P	F	1.8	REMOVE
554	APPLE SPECIES	MALUS SP.	12	P	F	1.8	REMOVE
555	APPLE SPECIES	MALUS SP.	12,10	P	P	1.8	REMOVE
556	APPLE SPECIES	MALUS SP.	17,11	P	P	1.8	REMOVE
557	APPLE SPECIES	MALUS SP.	16	P	F	1.8	REMOVE
566	APPLE SPECIES	MALUS SP.	32,25	P	F	3	REMOVE
567	APPLE SPECIES	MALUS SP.	16	P	F	1.8	REMOVE
568	APPLE SPECIES	MALUS SP.	12,14	P	F	1.8	REMOVE
569	APPLE SPECIES	MALUS SP.	14,13	P	F	1.8	REMOVE
570	APPLE SPECIES	MALUS SP.	25,20	P	F	2.4	REMOVE
571	APPLE SPECIES	MALUS SP.	32,19	P	F	2.4	REMOVE
572	BLACK WALNUT	JUGLANS NIGRA	32,34	F	F	3	REMOVE
573	APPLE SPECIES	MALUS SP.	18,13,20	P	F	2.4	REMOVE
574	APPLE SPECIES	MALUS SP.	17	P	F	1.8	REMOVE
575	APPLE SPECIES	MALUS SP.	19,12	P	F	1.8	REMOVE
576	APPLE SPECIES	MALUS SP.	11,10	P	P	1.8	REMOVE
584	APPLE SPECIES	MALUS SP.	28,18,21	P	P	2.4	REMOVE
585	APPLE SPECIES	MALUS SP.	30	P	P	2.4	REMOVE
586	MANITOBA MAPLE	ACER NEGUNDO	56	F	G	3.6	REMOVE
OS1	BLACK LOCUST	ROBINIA PSEUDOACACIA	45,40	F	G	3.6	RETAIN
OS2	WHITE SPRUCE	PICEA GLAUCA	40	G	G	2.4	RETAIN
OS3	WHITE SPRUCE	PICEA GLAUCA	18	G	G	1.8	RETAIN WITH SPECIFIC MEASURES
OS4	NORWAY SPRUCE	PICEA ABIES	45	G	G	3.0	RETAIN WITH SPECIFIC MEASURES
OS5	NORWAY SPRUCE	PICEA ABIES	40	G	G	2.4	RETAIN WITH SPECIFIC MEASURES
OS6	NORWAY SPRUCE	PICEA ABIES	30	F	F	2.4	RETAIN WITH SPECIFIC MEASURES



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LEGEND

- APPROXIMATE SITE LOCATION
- PROPOSED DEVELOPMENT
- TREE LOCATIONS
- TREES TO BE REMOVED
- TREES TO BE RETAINED
- TREES TO BE RETAINED WITH SPECIFIC METHODS
- HEDGEROW TO BE RETAINED
- TREE PROTECTION FENCING



4 2 0 4 Metres

Data Source: Ministry of Natural Resources, Ontario Base Mapping, October 2016.

CLIENT:

STRAW HAT RESTORATION

PROJECT:

ARBORIST REPORT AND
TREE PROTECTION PLAN
BLACKMOOR GATES VENTURE SUBDIVISION
774 HURONTARIO STREET
TOWN OF COLLINGWOOD, SIMCOE COUNTY

PROJECT NO:

17M-01364-00

DATE:

DECEMBER 2017

DESIGNED BY:

-

DRAWN BY:

T.P.

CHECKED BY:

-

FIGURE NO:

1

SCALE:

1:500

TITLE:

TREE PROTECTION PLAN

DISCIPLINE:

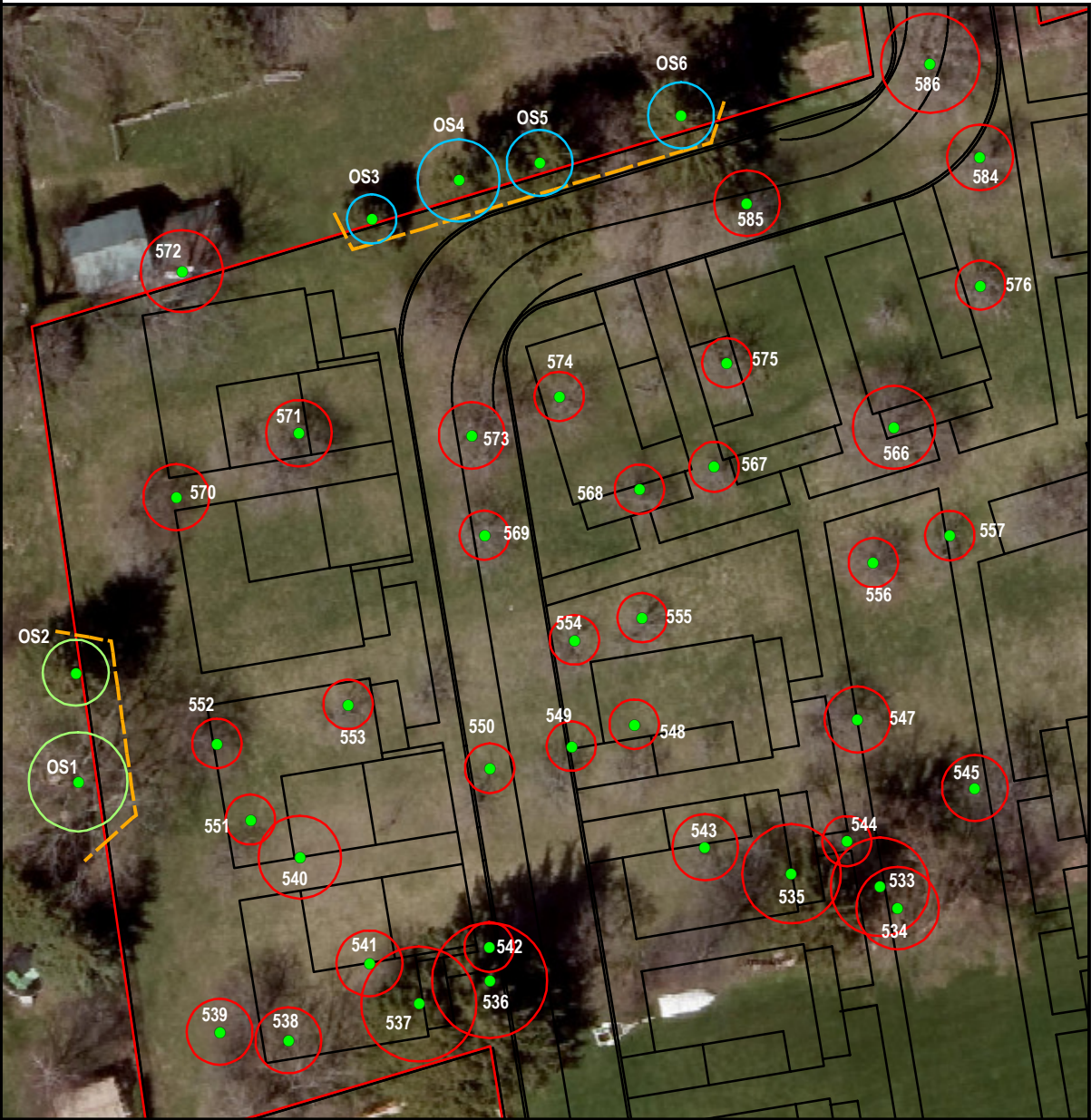
ENVIRONMENT

ISSUE:

-

REV.:

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GENERAL NOTES:

- PRIOR TO COMMENCEMENT OF ANY SITE ACTIVITY THE TREE PROTECTION FENCING SPECIFIED ON THIS PLAN MUST BE INSTALLED AND SHALL BE APPROVED FORMALLY BY THE TOWN OF COLLINGWOOD PRIOR TO COMMENCING ANY TREE REMOVAL, CLEARING OR GRUBBING OPERATIONS.
- TREE PROTECTION FENCING MUST REMAIN IN EFFECTIVE CONDITION UNTIL ALL SITE ACTIVITIES INCLUDING LANDSCAPING ARE COMPLETE.
- AFTER TREE REMOVALS AND PRIOT TO THE ISSUANCE OF THE UNDERGROUND CERTIFICATE, THE TOWN WILL RE-INSPECT THE TREE PRESERVATION AREAS. ANY ADDITIONAL TREE REMOVALS OR TREE PRUNING WILL BE IDENTIFIED AND EXECUTED BY THE CONTRACTOR.

TREE PRESERVATION AND PROTECTION RECOMMENDATIONS

ESTABLISHMENT OF TREE PROTECTION ZONES:

- TREE PROTECTION FENCING WILL BE USED TO ESTABLISH THE TPZ FOR TREES WITHIN THE VICINITY OF THE CONSTRUCTION SITE THAT ARE TO BE PRESERVED.
- NO GRADE CHANGES SHALL OCCUR WITHIN THE TPZ. IN THE EVENT THAT GRADE CHANGES OCCUR AS A RESULT OF A CUT OR FILL SITUATION, THE CONSULTING ARBORIST MUST BE NOTIFIED SO THAT PRECAUTIONS TO PRESERVE THE TREE CAN BE TAKEN PRIOR TO THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES.
- WHERE BRANCHES OVERHANG OR EXTEND INTO THE CONSTRUCTION ZONE AND MAY BE IMPACTED BY MACHINERY, THE BRANCHES SHOULD BE PRUNED BEFORE EXCAVATION ACTIVITIES ARE COMMENCED. PRUNING SHOULD BE LIMITED TO LESS THAN 20% OF THE TREE'S CROWN AND SHOULD BE COMPLETED BY A CERTIFIED ARBORIST OR QUALIFIED TREE PROFESSIONAL.
- DAMAGE TO TREES, INCLUDING BROKEN LIMBS, DAMAGE TO ROOTS, OR WOUNDS TO THE MAIN TRUNK MUST BE REPORTED TO THE CONSULTING ARBORIST IMMEDIATELY SO THAT MITIGATION MEASURES CAN BE PROMPTLY IMPLEMENTED.
- THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE TPZ:
 - CONSTRUCTION;
 - ALTERING OF GRADE BY ADDING FILL, EXCAVATING, TRENCHING OR DISTURBANCE OF ANY KIND;
 - STORAGE OR STOCKPILING OF MATERIALS, EQUIPMENT, SOIL, CONSTRUCTION WASTE OR DEBRIS;
 - DISPOSAL OF ANY LIQUIDS;
 - MOVEMENT OF VEHICLES, EQUIPMENT, OR PEDESTRIANS; AND
 - PARKING OF VEHICLES OR MACHINERY.
- SHOULD ANY WORK BEYOND THAT IDENTIFIED ON THIS PLAN BE REQUIRED WITHIN THE TPZ, THE CONTRACTOR AND THE CONSULTING ARBORIST SHALL CONTACT THE TOWN OF COLLINGWOOD.

TREE PROTECTION FENCING/HOARDING FENCING:

- FENCING SHOULD BE INSTALLED OUTSIDE THE TPZ, BETWEEN THE AREAS OF PROPOSED DEVELOPMENT AND RETAINED TREES, AS INDICATED ON THE TREE PROTECTION PLAN, TO REDUCE THE POTENTIAL FOR PHYSICAL DAMAGE TO THE TREES AND THEIR ROOT SYSTEMS.
- INSTALLATION SHOULD FOLLOW DETAILS AND SPECIFICATIONS OUTLINED IN THE CITY OF TORONTO TREE PROTECTION POLICY AND SPECIFICATIONS FOR CONSTRUCTION NEAR TREES (2016) OR AS APPROVED BY CITY OF TORONTO URBAN FORESTRY, RAVINE AND NATURAL FEATURE PROTECTION.
- FENCING SHOULD BE 1.2 M (4 FT) HIGH PLYWOOD HOARDING ON A2" X 4" BRACING FRAME LOCATED OUTSIDE THE TPZ.
- ALTERNATIVELY, FAST FENCE (MODULOC OR EQUIVALENT) IS ACCEPTABLE, BUT EACH SEGMENT MUST BE SECURED TO THE GROUND USING T-BAR AND BRACED TO THE NEXT SEGMENT.
- TREE PROTECTION FENCING SHOULD BE INSTALLED BEFORE WORK ON THE SITE BEGINS AND INSPECTED REGULARLY TO ENSURE IT IS PERFORMING ITS INTENDED FUNCTION. IF ANY SECTION IS FOUND TO BE DAMAGED OR NON-FUNCTIONAL IT SHOULD BE REPLACED IMMEDIATELY.

TREE REMOVAL:

- TREES ARE TO BE FELLED INTO THE CONSTRUCTION AREA SO AS TO REDUCE THE POTENTIAL FOR INJURY/DAMAGE TO NEIGHBOURING TREES.
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RESTORATION OF DISTURBED AREAS

TOPSOIL REMOVED DURING SITE GRADING SHOULD BE STORED IN A DESIGNATED STOCKPILING AREA AND USED DURING SITE RESTORATION. FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITIES, DISTRUBED AREAS SHOULD BE GRADED TO MATCH PRECONSTRUCTION CONDITIONS AND COMPACTED SOILS BEYOND THE DEVELOPMENT AREA SHOULD BE DECOMPACTED BY SCARIFICATION OR A SIMILAR APPROVED METHOD PRIOR TO REPLACEMENT OF RESERVED TOPSOIL. AREAS OF DISTURBED/ EXPOSED SOILS BEYOND THE DEVELOPMENT AREA SHALL BE STABILIZED AND RE-VEGETATED USING AN APPROVED NATIVE SEED MIX. IF REQUIRED, UP TO 15 CM OF CONTAMINANT-FREE AND WEED-FREE TOPSOIL SHOULD BE APPLIED TO THE DISTURBED AREA PRIOR TO APPLYING THE SEED MIX.

TREE #	COMMON NAME	SCIENTIFIC NAME	(DBH (cm)	CONDITION (G/F/P)		TREE PROTECTION ZONE (m)	RECOMMENDATIONS
				STRUCTURE	VIGOUR		
582	APPLE SPECIES	MALUS SP.	25,24	P	F	2.4	REMOVE
587	WHITE ASH	FRAXINUS AMERICANA	20,21	F	F	1.8	REMOVE
588	NORWAY MAPLE	ACER PLATANOIDES	25	F	F	1.8	REMOVE
589	WHITE MULBERRY	MORUS ALBA	43	F	G	3	REMOVE
590	WHITE SPRUCE	PICEA GLAUCA	32	G	G	2.4	REMOVE
591	WHITE BIRCH	BETULA PAPYRIFERA	24,24	F	G	2.4	REMOVE
592	MANITOBA MAPLE	ACER NEGUNDO	32	F	G	2.4	REMOVE
593	WHITE PINE	PINUS STROBUS	49	F	F	3	REMOVE
594	WHITE SPRUCE	PICEA GLAUCA	25	G	G	1.8	REMOVE
595	WHITE SPRUCE	PICEA GLAUCA	27	G	G	1.8	REMOVE
596	WHITE SPRUCE	PICEA GLAUCA	35	G	G	2.4	REMOVE
597	NORWAY SPRUCE	PICEA ABIES	66	F	G	4.2	REMOVE
598	MANITOBA MAPLE	ACER NEGUNDO	22,18,28	F	G	2.4	REMOVE
599	NORWAY SPRUCE	PICEA ABIES	42	G	G	3	REMOVE
600	NORWAY SPRUCE	PICEA ABIES	32	G	F	2.4	REMOVE
601	MANITOBA MAPLE	ACER NEGUNDO	38	F	G	2.4	REMOVE
602	NORWAY SPRUCE	PICEA ABIES	47	G	F	3	REMOVE
603	NORWAY SPRUCE	PICEA ABIES	40	G	F	2.4	REMOVE
604	NORWAY SPRUCE	PICEA ABIES	52	G	F	3.6	REMOVE
605	MANITOBA MAPLE	ACER NEGUNDO	31,29,7	F	G	3	REMOVE
606	NORWAY SPRUCE	PICEA ABIES	35	G	F	2.4	REMOVE
607	NORWAY SPRUCE	PICEA ABIES	41	G	F	3	REMOVE
608	NORWAY SPRUCE	PICEA ABIES	34	G	F	2.4	REMOVE
609	MANITOBA MAPLE	ACER NEGUNDO	45,27	F	G	3.6	REMOVE
610	NORWAY SPRUCE	PICEA ABIES	54	G	G	3.6	REMOVE
611	NORWAY SPRUCE	PICEA ABIES	67	G	G	4.2	REMOVE
H2	MANITOBA MAPLE HEDGEROW	ACER NEGUNDO	5 @ 10-25 CM	G	G	1.8	RETAIN
OS10	COLORADO SPRUCE	PICEA PUNGENS	35	G	G	2.4	RETAIN WITH SPECIFIC MEASURES
OS7	COLORADO SPRUCE	PICEA PUNGENS	20	G	G	1.8	RETAIN WITH SPECIFIC MEASURES
OS8	WHITE SPRUCE	PICEA GLAUCA	30	G	G	2.4	RETAIN WITH SPECIFIC MEASURES
OS9	COLORADO SPRUCE	PICEA PUNGENS	30	G	G	2.4	RETAIN WITH SPECIFIC MEASURES



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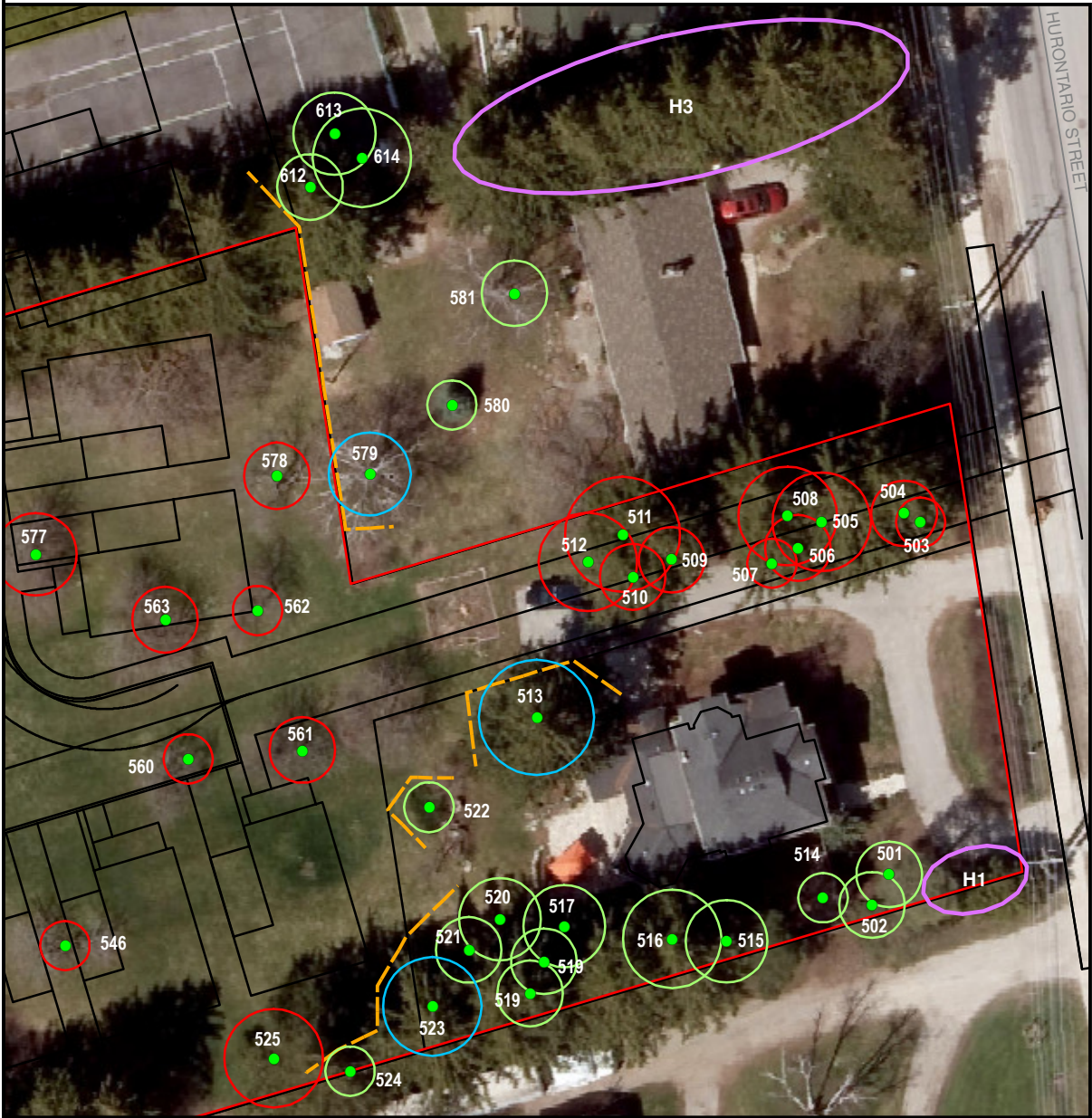
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TREE #	COMMON NAME	SCIENTIFIC NAME	(DBH (cm)	CONDITION (G/F/P)		TREE PROTECTION ZONE (m)	RECOMMENDATIONS
				STRUCTURE	VIGOUR		
501	SCOTS PINE	<i>PINUS SYLVESTRIS</i>	40	F	P	2.4	RETAIN
502	SCOTS PINE	<i>PINUS SYLVESTRIS</i>	34	F	P	2.4	RETAIN
503	NORWAY SPRUCE	<i>PICEA ABIES</i>	18	F	F	1.8	REMOVE
504	NORWAY SPRUCE	<i>PICEA ABIES</i>	30	G	G	2.4	REMOVE
505	NORWAY SPRUCE	<i>PICEA ABIES</i>	52	G	G	3.6	REMOVE
506	NORWAY SPRUCE	<i>PICEA ABIES</i>	30	F	F	2.4	REMOVE
507	NORWAY SPRUCE	<i>PICEA ABIES</i>	21	F	F	1.8	REMOVE
508	NORWAY SPRUCE	<i>PICEA ABIES</i>	53	G	G	3.6	REMOVE
509	NORWAY SPRUCE	<i>PICEA ABIES</i>	40	G	F	2.4	REMOVE
510	NORWAY SPRUCE	<i>PICEA ABIES</i>	31	G	F	2.4	REMOVE
511	NORWAY SPRUCE	<i>PICEA ABIES</i>	61	G	G	4.2	REMOVE
512	NORWAY SPRUCE	<i>PICEA ABIES</i>	54	G	G	3.6	REMOVE
513	NORWAY SPRUCE	<i>PICEA ABIES</i>	61	F	F	4.2	RETAIN WITH SPECIFIC MEASURES
514	NORWAY MAPLE	<i>ACER PLATANOIDES</i>	19	F	G	1.8	RETAIN
515	SCOTS PINE	<i>PINUS SYLVESTRIS</i>	45	P	F	3	RETAIN
516	NORWAY SPRUCE	<i>PICEA ABIES</i>	56	F	F	3.6	RETAIN
517	NORWAY SPRUCE	<i>PICEA ABIES</i>	44	F	F	3	RETAIN
518	NORWAY SPRUCE	<i>PICEA ABIES</i>	49	G	G	3.0	RETAIN
519	NORWAY SPRUCE	<i>PICEA ABIES</i>	33	G	G	2.4	RETAIN
520	NORWAY SPRUCE	<i>PICEA ABIES</i>	47	G	G	3	RETAIN
521	NORWAY SPRUCE	<i>PICEA ABIES</i>	37	G	G	2.4	RETAIN
522	NORWAY MAPLE	<i>ACER PLATANOIDES</i>	17	G	G	1.8	RETAIN
523	NORWAY SPRUCE	<i>PICEA ABIES</i>	60	G	G	3.6	RETAIN WITH SPECIFIC MEASURES
524	NORWAY SPRUCE	<i>PICEA ABIES</i>	24	G	G	1.8	RETAIN
525	NORWAY SPRUCE	<i>PICEA ABIES</i>	58	G	F	3.6	REMOVE
546	APPLE SPECIES	<i>MALUS SP.</i>	22	P	P	1.8	REMOVE
560	APPLE SPECIES	<i>MALUS SP.</i>	29	P	F	1.8	REMOVE
561	APPLE SPECIES	<i>MALUS SP.</i>	24,22	P	F	2.4	REMOVE
562	APPLE SPECIES	<i>MALUS SP.</i>	15	P	P	1.8	REMOVE
563	APPLE SPECIES	<i>MALUS SP.</i>	20,23,26	P	F	2.4	REMOVE
577	APPLE SPECIES	<i>MALUS SP.</i>	34,25	P	F	3	REMOVE
578	APPLE SPECIES	<i>MALUS SP.</i>	24,20	P	F	2.4	REMOVE
579	WHITE BIRCH	<i>BETULA PAPYRIFERA</i>	46	F	F	3	RETAIN WITH SPECIFIC MEASURES
580	COLORADO SPRUCE	<i>PICEA PUNGENS</i>	17	G	G	1.8	RETAIN
581	WHITE BIRCH	<i>BETULA PAPYRIFERA</i>	32,20	F	G	2.4	RETAIN
612	NORWAY SPRUCE	<i>PICEA ABIES</i>	36	G	G	2.4	RETAIN
613	NORWAY SPRUCE	<i>PICEA ABIES</i>	46	G	G	3	RETAIN
614	NORWAY SPRUCE	<i>PICEA ABIES</i>	52	G	G	3.6	RETAIN
H1	EASTERN WHITE CEDAR HEDGEROW	<i>THUJA OCCIDENTALIS</i>	9 AT <10CM	G	G	1.8	RETAIN
H3	NORWAY SPRUCE HEDGEROW	<i>PICEA ABIES</i>	11 @ 20-35CM	G	G	1.8	RETAIN



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Data Source: Ministry of Natural Resources, Ontario Base Mapping, October 2016.

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 - MOVEMENT OF VEHICLES, EQUIPMENT, OR PEDESTRIANS; AND
 - PARKING OF VEHICLES OR MACHINERY.
- SHOULD ANY WORK BEYOND THAT IDENTIFIED ON THIS PLAN BE REQUIRED WITHIN THE TPZ, THE CONTRACTOR AND THE CONSULTING ARBORIST SHALL CONTACT THE TOWN OF COLLINGWOOD.

TREE PROTECTION FENCING/HOARDING FENCING:

- FENCING SHOULD BE INSTALLED OUTSIDE THE TPZ, BETWEEN THE AREAS OF PROPOSED DEVELOPMENT AND RETAINED TREES, AS INDICATED ON THE TREE PROTECTION PLAN, TO REDUCE THE POTENTIAL FOR PHYSICAL DAMAGE TO THE TREES AND THEIR ROOT SYSTEMS.
- INSTALLATION SHOULD FOLLOW DETAILS AND SPECIFICATIONS OUTLINED IN THE CITY OF TORONTO TREE PROTECTION POLICY AND SPECIFICATIONS FOR CONSTRUCTION NEAR TREES (2016) OR AS APPROVED BY CITY OF TORONTO URBAN FORESTRY, RAVINE AND NATURAL FEATURE PROTECTION.
- FENCING SHOULD BE 1.2 M (4 FT) HIGH PLYWOOD HOARDING ON A2" X 4" BRACING FRAME LOCATED OUTSIDE THE TPZ.
- ALTERNATIVELY, FAST FENCE (MODULOC OR EQUIVALENT) IS ACCEPTABLE, BUT EACH SEGMENT MUST BE SECURED TO THE GROUND USING T-BAR AND BRACED TO THE NEXT SEGMENT.
- TREE PROTECTION FENCING SHOULD BE INSTALLED BEFORE WORK ON THE SITE BEGINS AND INSPECTED REGULARLY TO ENSURE IT IS PERFORMING ITS INTENDED FUNCTION. IF ANY SECTION IS FOUND TO BE DAMAGED OR NON-FUNCTIONAL IT SHOULD BE REPLACED IMMEDIATELY.

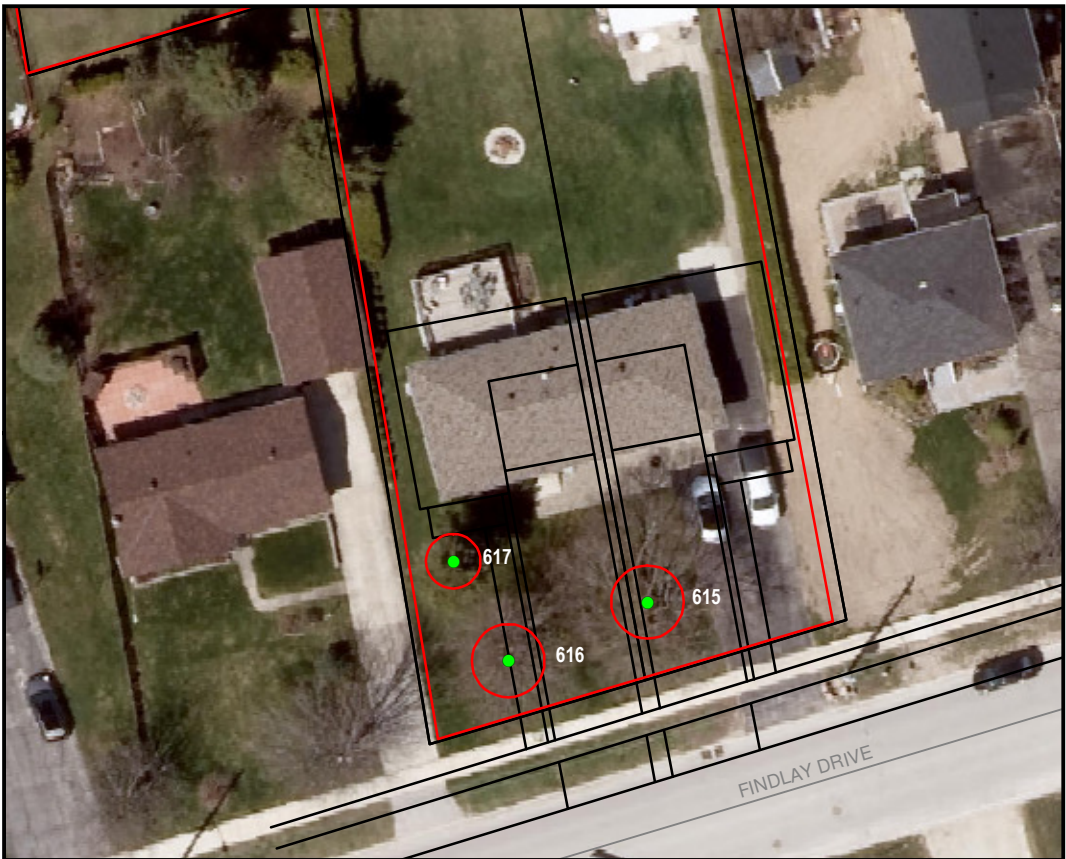
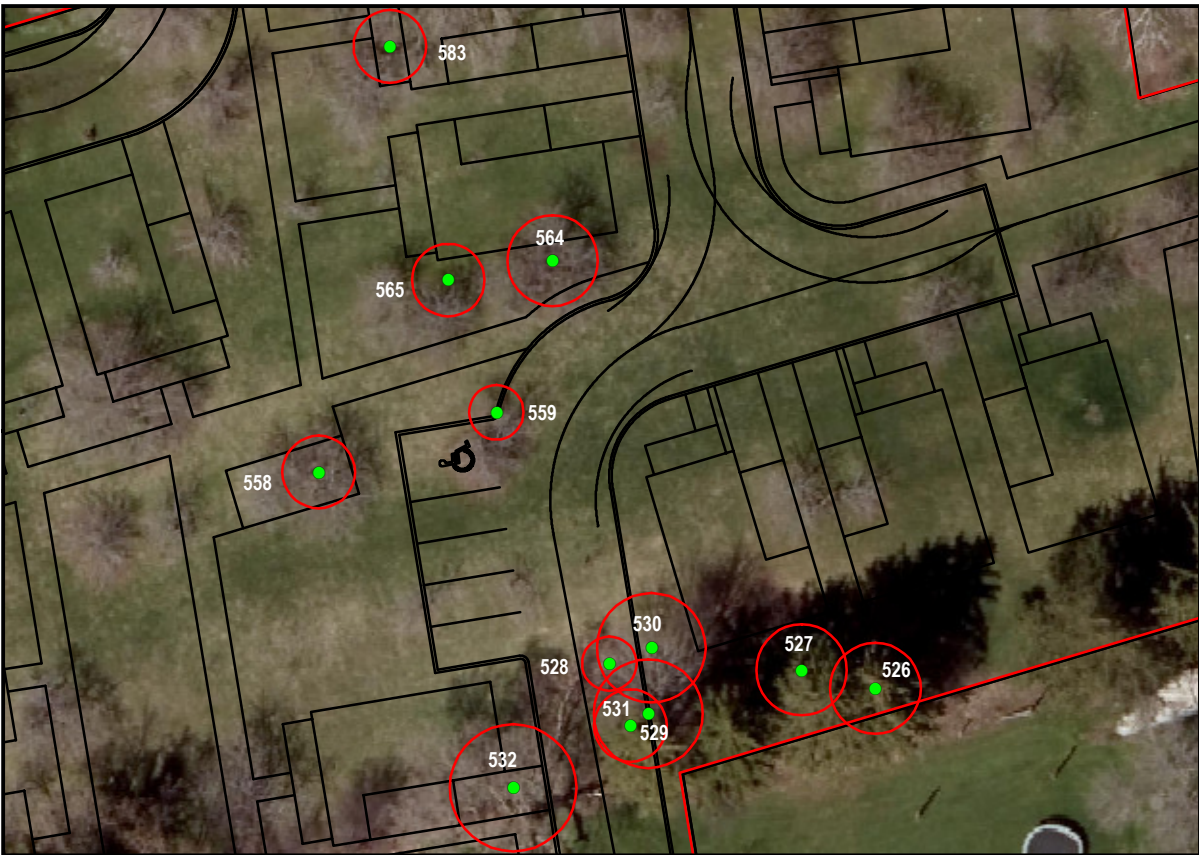
TREE REMOVAL:

- TREES ARE TO BE FELLED INTO THE CONSTRUCTION AREA SO AS TO REDUCE THE POTENTIAL FOR INJURY/DAMAGE TO NEIGHBOURING TREES.
- TO AVOID INTERFERENCE WITH THE EGGS, NESTS OR YOUNG OF BIRDS PROTECTED UNDER THE FEDERAL MIGRATORY BIRDS CONVENTION ACT (GOVERNMENT OF CANADA, 1994), REMOVALS SHOULD NOT OCCUR FROM MAY 1 TO JULY 31 OF ANY GIVEN YEAR. IDEALLY, REMOVAL SHOULD OCCUR FROM AUGUST THROUGH DECEMBER TO AVOID INTERFERENCE WITH ALL NESTING BIRDS. SHOULD REMOVAL BE REQUIRED WITHIN THE APRIL 1 TO AUGUST 1 BREEDING PERIOD, A QUALIFIED AVIAN BIOLOGIST SHOULD CONDUCT A THOROUGH SURVEY IMMEDIATELY PRIOR TO THE DESIRED TREE REMOVAL DATE TO CONFIRM PRESENCE OR ABSENCE OF PROTECTED SPECIES. IF PROTECTED SPECIES ARE PRESENT, REMOVAL CANNOT OCCUR WITHOUT A PERMIT FROM THE CANADIAN WILDLIFE SERVICE.

RESTORATION OF DISTURBED AREAS

TOPSOIL REMOVED DURING SITE GRADING SHOULD BE STORED IN A DESIGNATED STOCKPILING AREA AND USED DURING SITE RESTORATION. FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITIES, DISTURBED AREAS SHOULD BE GRADED TO MATCH PRECONSTRUCTION CONDITIONS AND COMPACTED SOILS BEYOND THE DEVELOPMENT AREA SHOULD BE DECOMPACTED BY SCARIFICATION OR A SIMILAR APPROVED METHOD PRIOR TO REPLACEMENT OF RESERVED TOPSOIL. AREAS OF DISTURBED/ EXPOSED SOILS BEYOND THE DEVELOPMENT AREA SHALL BE STABILIZED AND RE-VEGETATED USING AN APPROVED NATIVE SEED MIX. IF REQUIRED, UP TO 15 CM OF CONTAMINANT-FREE AND WEED-FREE TOPSOIL SHOULD BE APPLIED TO THE DISTURBED AREA PRIOR TO APPLYING THE SEED MIX.

TREE #	COMMON NAME	SCIENTIFIC NAME	(DBH (cm)	CONDITION (G/F/P)		TREE PROTECTION ZONE (m)	RECOMMENDATIONS
				STRUCTURE	VIGOUR		
526	NORWAY SPRUCE	PICEA ABIES	44	F	F	3	REMOVE
527	NORWAY SPRUCE	PICEA ABIES	48	F	F	3	REMOVE
528	APPLE SPECIES	MALUS SP.	27	P	F	1.8	REMOVE
529	NORWAY SPRUCE	PICEA ABIES	58	P	P	3.6	REMOVE
530	SUGAR MAPLE	ACER SACCHARUM	46,18,13	F	F	3.6	REMOVE
531	NORWAY SPRUCE	PICEA ABIES	32	F	F	2.4	REMOVE
532	MANITOBA MAPLE	ACER NEGUNDO	66	F	F	4.2	REMOVE
558	APPLE SPECIES	MALUS SP.	27,29	P	F	2.4	REMOVE
559	APPLE SPECIES	MALUS SP.	25	P	F	1.8	REMOVE
564	APPLE SPECIES	MALUS SP.	24,20,28	P	F	3	REMOVE
565	APPLE SPECIES	MALUS SP.	34	P	F	2.4	REMOVE
583	APPLE SPECIES	MALUS SP.	24,27	P	F	2.4	REMOVE
615	NORWAY MAPLE	ACER PLATANOIDES	30	G	G	2.4	REMOVE
616	NORWAY MAPLE	ACER PLATANOIDES	32	G	G	2.4	REMOVE
617	WHITE SPRUCE	PICEA GLAUCA	26	F	F	1.8	REMOVE



126 DON HILLOCK DRIVE, UNIT 2
AURORA, ONTARIO CANADA L4G 0G9
TEL.: 905-750-3080 | FAX: 905-727-0463 | WWW.WSP.COM

LEGEND

- APPROXIMATE SITE LOCATION
- PROPOSED DEVELOPMENT
- TREE LOCATIONS
- TREES TO BE REMOVED
- TREES TO BE RETAINED
- TREES TO BE RETAINED WITH SPECIFIC METHODS
- ✂ HEDGEROW TO BE RETAINED



4 2 0 4 Metres

Data Source: Ministry of Natural Resources, Ontario Base Mapping, October 2016.

CLIENT:

STRAW HAT RESTORATION

PROJECT:

ARBORIST REPORT AND
TREE PROTECTION PLAN
BLACKMOOR GATES VENTURE SUBDIVISION
774 HURONTARIO STREET
TOWN OF COLLINGWOOD, SIMCOE COUNTY

PROJECT NO:

17M-01364-00

DATE:

DECEMBER 2017

DESIGNED BY:

-

DRAWN BY:

T.P.

CHECKED BY:

-

FIGURE NO:

4

SCALE:

1:500

TITLE:

TREE PROTECTION PLAN

DISCIPLINE:

ENVIRONMENT

ISSUE:

-

REV.:

-

APPENDIX

A TREE INVENTORY



TREE INVENTORY

Tree ID	Common Name	Scientific Name	DBH (cm)	Effective DBH	% Dead Branche	Condition (G/F/P)		Comments (Wounds, Insects, Disease, other)	TPZ	Recommendation
						Structure	Vigour			
H1	Eastern White Cedar Hedgerow	<i>Thuja occidentalis</i>	9 at <10cm		<10	G	G		1.8	Retain
501	Scots Pine	<i>Pinus sylvestris</i>	40	40	30	F	P	twisted branches, dieback	2.4	Retain
502	Scots Pine	<i>Pinus sylvestris</i>	34	34	30	F	P	sap sucker holes	2.4	Retain
503	Norway Spruce	<i>Picea abies</i>	18	18	25	F	F	competition from adjacent trees	1.8	Remove
504	Norway Spruce	<i>Picea abies</i>	30	30	<10	G	G		2.4	Remove
505	Norway Spruce	<i>Picea abies</i>	52	52	<10	G	G	limb pruned	3.6	Remove
506	Norway Spruce	<i>Picea abies</i>	30	30	20	F	F	competition from adjacent trees	2.4	Remove
507	Norway Spruce	<i>Picea abies</i>	21	21	20	F	F	one dead limb, curved topped, competition from adjacent tree	1.8	Remove
508	Norway Spruce	<i>Picea abies</i>	53	53	<10	G	G	slight lean	3.6	Remove
509	Norway Spruce	<i>Picea abies</i>	40	40	<10	G	F		2.4	Remove
510	Norway Spruce	<i>Picea abies</i>	31	31	20	G	F	bare underneath	2.4	Remove
511	Norway Spruce	<i>Picea abies</i>	61	61	<10	G	G		4.2	Remove
512	Norway Spruce	<i>Picea abies</i>	54	54	15	G	G		3.6	Remove
513	Norway Spruce	<i>Picea abies</i>	61	61	<10	F	F	sap oozing, slight lean	4.2	Retain with Specific Measures
514	Norway Maple	<i>Acer platanoides</i>	19	19	<10	F	G	leaning	1.8	Retain
515	Scots Pine	<i>Pinus sylvestris</i>	45	45	30	P	F	leaning, sapsucker, twisted branches	3	Retain
516	Norway Spruce	<i>Picea abies</i>	56	56	20	F	F		3.6	Retain
517	Norway Spruce	<i>Picea abies</i>	44	44	20	F	F	competition from adjacent trees, broken branches	3	Retain
518	Norway Spruce	<i>Picea abies</i>	49	49	<10	G	G		3.0	Retain
519	Norway Spruce	<i>Picea abies</i>	33	33	<10	G	G	nail in trunk	2.4	Retain
520	Norway Spruce	<i>Picea abies</i>	47	47	<10	G	G		3	Retain
521	Norway Spruce	<i>Picea abies</i>	37	37	<10	G	G		2.4	Retain
522	Norway Maple	<i>Acer platanoides</i>	17	17	<10	G	G		1.8	Retain
523	Norway Spruce	<i>Picea abies</i>	60	60	<10	G	G		3.6	Retain with Specific Measures
524	Norway Spruce	<i>Picea abies</i>	24	24	<10	G	G		1.8	Retain
525	Norway Spruce	<i>Picea abies</i>	58	58	<10	G	F	been pruned, buckthorn competition	3.6	Remove
526	Norway Spruce	<i>Picea abies</i>	44	44	15	F	F	buckthorn competition, leaning	3	Remove
527	Norway Spruce	<i>Picea abies</i>	48	48	20	F	F	buckthorn competition, leaning	3	Remove
528	Apple species	<i>Malus sp.</i>	27	27	40	P	F	two dead limbs	1.8	Remove
529	Norway Spruce	<i>Picea abies</i>	58	58	70	P	P	dieback, brush at base	3.6	Remove
530	Sugar Maple	<i>Acer saccharum</i>	46,18,13	51	20	F	F	Y at base	3.6	Remove
531	Norway Spruce	<i>Picea abies</i>	32	32	30	F	F		2.4	Remove
532	Manitoba Maple	<i>Acer negundo</i>	66	66	20	F	F		4.2	Remove
533	Manitoba Maple	<i>Acer negundo</i>	54	54	30	F	F	broken dead limbs	3.6	Remove
534	Manitoba Maple	<i>Acer negundo</i>	32,27	42	25	P	F	dead trunk, leaning	3	Remove
535	Norway Spruce	<i>Picea abies</i>	58	58	<10	G	G		3.6	Remove
536	Norway Spruce	<i>Picea abies</i>	64	64	20	F	F	sap oozing, curved branches	4.2	Remove
537	Norway Spruce	<i>Picea abies</i>	67	67	20	F	F		4.2	Remove
538	Manitoba Maple	<i>Acer negundo</i>	32	32	25	F	F	leaning, epicormic shooting	2.4	Remove
539	Manitoba Maple	<i>Acer negundo</i>	32	32	25	F	F	leaning, epicormic shooting	2.4	Remove
540	Apple species	<i>Malus sp.</i>	30,19,34	49	25	P	F	wounds	3	Remove
541	Apple species	<i>Malus sp.</i>	21,17	34	40	P	P	wounds, significant leaning	2.4	Remove
542	Apple species	<i>Malus sp.</i>	18	18	40	P	P	one dead, wounds, leaning	1.8	Remove
543	Apple species	<i>Malus sp.</i>	34	34	30	P	F		2.4	Remove
544	Apple species	<i>Malus sp.</i>	26	26	35	P	F		1.8	Remove
545	Apple species	<i>Malus sp.</i>	14,27	30	25	P	F	wound at base, epicormic shooting, fruiting bodies	2.4	Remove
546	Apple species	<i>Malus sp.</i>	22	22	45	P	P	dead trunk	1.8	Remove
547	Apple species	<i>Malus sp.</i>	37	37	30	P	P	wound, hollow trunk	2.4	Remove
548	Apple species	<i>Malus sp.</i>	16	16	50	P	P	significant leaning	1.8	Remove
549	Apple species	<i>Malus sp.</i>	16	16	30	P	F	significant leaning	1.8	Remove
550	Apple species	<i>Malus sp.</i>	16	16	30	P	F		1.8	Remove
551	Apple species	<i>Malus sp.</i>	14	14	30	P	F		1.8	Remove
OS1	Black Locust	<i>Robinia pseudoacacia</i>	45,40	60	<10	F	G	Y at base	3.6	Retain
OS2	White Spruce	<i>Picea glauca</i>	40	40	<10	G	G		2.4	Retain
552	Apple species	<i>Malus sp.</i>	29	29	30	P	F		1.8	Remove
553	Apple species	<i>Malus sp.</i>	12	12	30	P	F	leaning, twisted	1.8	Remove
554	Apple species	<i>Malus sp.</i>	12	12	30	P	F		1.8	Remove
555	Apple species	<i>Malus sp.</i>	12,10	16	30	P	P		1.8	Remove
556	Apple species	<i>Malus sp.</i>	17,11	20	30	P	P		1.8	Remove



TREE INVENTORY

557	Apple species	<i>Malus sp.</i>	16	16	30	P	F		1.8	Remove
558	Apple species	<i>Malus sp.</i>	27,29	40	30	P	F		2.4	Remove
559	Apple species	<i>Malus sp.</i>	25	25	30	P	F		1.8	Remove
560	Apple species	<i>Malus sp.</i>	29	29	30	P	F		1.8	Remove
561	Apple species	<i>Malus sp.</i>	24,22	33	20	P	F		2.4	Remove
562	Apple species	<i>Malus sp.</i>	15	15	70	P	P	dead leader	1.8	Remove
563	Apple species	<i>Malus sp.</i>	20,23,26	40	30	P	F		2.4	Remove
564	Apple species	<i>Malus sp.</i>	24,20,28	42	30	P	F	epicormic shooting	3	Remove
565	Apple species	<i>Malus sp.</i>	34	34	30	P	F	wound at base, epicormic shooting	2.4	Remove
566	Apple species	<i>Malus sp.</i>	32,25	41	30	P	F		3	Remove
567	Apple species	<i>Malus sp.</i>	16	16	30	P	F		1.8	Remove
568	Apple species	<i>Malus sp.</i>	12,14	18	30	P	F		1.8	Remove
569	Apple species	<i>Malus sp.</i>	14,13	19	30	P	F		1.8	Remove
570	Apple species	<i>Malus sp.</i>	25,20	32	30	P	F		2.4	Remove
571	Apple species	<i>Malus sp.</i>	32,19	37	30	P	F		2.4	Remove
572	Black Walnut	<i>Juglans nigra</i>	32,34	47	25	F	F	Y at 1.5 m	3	Remove
OS3	White Spruce	<i>Picea glauca</i>	18	18	<10	G	G		1.8	Retain with Specific Measures
OS4	Norway Spruce	<i>Picea abies</i>	45	45	15	G	G		3.0	Retain with Specific Measures
OS5	Norway Spruce	<i>Picea abies</i>	40	40	15	G	G		2.4	Retain with Specific Measures
573	Apple species	<i>Malus sp.</i>	18,13,20	30	25	P	F		2.4	Remove
574	Apple species	<i>Malus sp.</i>	17	17	30	P	F		1.8	Remove
575	Apple species	<i>Malus sp.</i>	19,12	22	30	P	F		1.8	Remove
576	Apple species	<i>Malus sp.</i>	11,10	15	40	P	P	pruned epicormic shooting	1.8	Remove
577	Apple species	<i>Malus sp.</i>	34,25	42	30	P	F		3	Remove
578	Apple species	<i>Malus sp.</i>	24,20	31	30	P	F		2.4	Remove
579	White Birch	<i>Betula papyrifera</i>	46	46	40	F	F		3	Retain with Specific Measures
580	Colorado Spruce	<i>Picea pungens</i>	17	17	<10	G	G		1.8	Retain
581	White Birch	<i>Betula papyrifera</i>	32,20	38	15	F	G		2.4	Retain
582	Apple species	<i>Malus sp.</i>	25,24	35	25	P	F		2.4	Remove
583	Apple species	<i>Malus sp.</i>	24,27	36	25	P	F	hollow trunks	2.4	Remove
584	Apple species	<i>Malus sp.</i>	28,18,21	39	30	P	P		2.4	Remove
585	Apple species	<i>Malus sp.</i>	30	30	30	P	P		2.4	Remove
OS6	Norway Spruce	<i>Picea abies</i>	30	30	25	F	F		2.4	Retain with Specific Measures
586	Manitoba Maple	<i>Acer negundo</i>	56	56	<10	F	G		3.6	Remove
587	White Ash	<i>Fraxinus americana</i>	20,21	29	25	F	F	Y at base	1.8	Remove
OS7	Colorado Spruce	<i>Picea pungens</i>	20	20	<10	G	G		1.8	Retain with Specific Measures
588	Norway Maple	<i>Acer platanoides</i>	25	25	20	F	F	twisted trunk	1.8	Remove
OS8	White Spruce	<i>Picea glauca</i>	30	30	<10	G	G		2.4	Retain with Specific Measures
OS9	Colorado Spruce	<i>Picea pungens</i>	30	30	<10	G	G		2.4	Retain with Specific Measures
OS10	Colorado Spruce	<i>Picea pungens</i>	35	35	<10	G	G		2.4	Retain with Specific Measures
H2	Manitoba Maple Hedgrow	<i>Acer negundo</i>	5 @ 10-25 cm		<10	G	G		1.8	Retain
589	White Mulberry	<i>Morus alba</i>	43	43	<10	F	G	epicormic shooting, dead limb	3	Remove
590	White Spruce	<i>Picea glauca</i>	32	32	<10	G	G		2.4	Remove
591	White Birch	<i>Betula papyrifera</i>	24,24	34	<10	F	G	Y at 1 m	2.4	Remove
592	Manitoba Maple	<i>Acer negundo</i>	32	32	<10	F	G	leaning	2.4	Remove
593	White Pine	<i>Pinus strobus</i>	49	49	25	F	F	leaning	3	Remove
594	White Spruce	<i>Picea glauca</i>	25	25	<10	G	G		1.8	Remove
595	White Spruce	<i>Picea glauca</i>	27	27	<10	G	G		1.8	Remove
596	White Spruce	<i>Picea glauca</i>	35	35	<10	G	G		2.4	Remove
597	Norway Spruce	<i>Picea abies</i>	66	66	<10	F	G	leaning	4.2	Remove
598	Manitoba Maple	<i>Acer negundo</i>	22,18,28	40	<10	F	G	significant lean	2.4	Remove
599	Norway Spruce	<i>Picea abies</i>	42	42	<10	G	G		3	Remove
600	Norway Spruce	<i>Picea abies</i>	32	32	35	G	F		2.4	Remove
601	Manitoba Maple	<i>Acer negundo</i>	38	38	<10	F	G		2.4	Remove
602	Norway Spruce	<i>Picea abies</i>	47	47	25	G	F		3	Remove
603	Norway Spruce	<i>Picea abies</i>	40	40	25	G	F		2.4	Remove
604	Norway Spruce	<i>Picea abies</i>	52	52	25	G	F		3.6	Remove
605	Manitoba Maple	<i>Acer negundo</i>	31,29,7	43	<10	F	G	significant lean	3	Remove
606	Norway Spruce	<i>Picea abies</i>	35	35	20	G	F		2.4	Remove
607	Norway Spruce	<i>Picea abies</i>	41	41	20	G	F		3	Remove
608	Norway Spruce	<i>Picea abies</i>	34	34	20	G	F		2.4	Remove



TREE INVENTORY

609	Manitoba Maple	<i>Acer negundo</i>	45,27	52	<10	F	G	significant lean	3.6	Remove
610	Norway Spruce	<i>Picea abies</i>	54	54	<10	G	G		3.6	Remove
611	Norway Spruce	<i>Picea abies</i>	67	67	<10	G	G		4.2	Remove
612	Norway Spruce	<i>Picea abies</i>	36	36	<10	G	G		2.4	Retain
613	Norway Spruce	<i>Picea abies</i>	46	46	<10	G	G		3	Retain
614	Norway Spruce	<i>Picea abies</i>	52	52	<10	G	G		3.6	Retain
H3	Norway Spruce Hedgerow	<i>Picea abies</i>	1 @ 20-35cm		<10	G	G		1.8	Retain
615	Norway Maple	<i>Acer platanoides</i>	30	30	<10	G	G		2.4	Remove
616	Norway Maple	<i>Acer platanoides</i>	32	32	<10	G	G		2.4	Remove
617	White Spruce	<i>Picea glauca</i>	26	26	20	F	F		1.8	Remove