



ARBORIST REPORT FOR ZONING BY-LAW AMENDMENT

**517-525 FANSHAWE PARK ROAD EAST AND
1536 GEARY AVE., LONDON, ONTARIO**

Report prepared by
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RKLA Project #21-115



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1.0 INTRODUCTION AND EXECUTIVE SUMMARY

1.1 INTRODUCTION

Ron Koudys Landscape Architects Inc. (RKLA) was retained by the developer to prepare a tree assessment report in conjunction with the proposed development at 517, 521 and 525, Fanshawe Park Road East and 1536 Geary Ave. The intent of this report is to summarize the findings of the tree assessment and make recommendations regarding tree preservation and removal based on tree health, the current site plan, and anticipated site grading for the purpose of application for zoning by-law amendment.

1.2 EXECUTIVE SUMMARY

The inventory captured 81 trees individual trees and 8 vegetation units. Trees were identified within the subject site, and within 3 meters of the legal property boundary. No species classified as endangered or threatened under the Ontario Endangered Species Act, 2007, S.O. 2007, c. 6 were observed during the tree inventory. All trees observed are common to the current land uses and can be characterized as anthropogenic or opportunistic.

1.2.1 TREE SPECIES COMPOSITION CHART

The following chart summarizes the amount of each tree species observed.

%	Qty	Botanical Name	Common Name
20%	16	<i>Acer platanoides</i>	Norway Maple
15%	12	<i>Picea glauca</i>	White Spruce
10%	8	<i>Picea abies</i>	Norway Spruce
6%	5	<i>Malus</i> spp	Apple
6%	5	<i>Picea pungens</i> var. <i>glauca</i>	Colorado Blue Spruce
5%	4	<i>Acer platanoides</i> Royal Red'	Norway Maple Royal Red
5%	4	<i>Pinus strobus</i>	White Pine
4%	3	<i>Picea pungens</i> var. <i>glauca</i> 'Fastigiata'	Columnar Blue Spruce
4%	3	<i>Pinus sylvestris</i>	Scotch Pine
2%	2	<i>Acer ginnala</i>	Amur Pale
2%	2	<i>Acer negundo</i>	Manitoba Maple
2%	2	<i>Acer saccharinum</i>	Silver Maple
2%	2	<i>Acer</i> spp	Maple
2%	2	<i>Magnolia</i> spp	Magnolia
2%	2	<i>Tsuga canadensis</i>	Canadian Hemlock
2%	2	<i>Ulmus pumila</i>	Siberian Elm
1%	1	<i>Acer saccharum</i>	Sugar Maple
1%	1	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Honey Locust
1%	1	<i>Juniperus virginiana</i>	Red Cedar
1%	1	<i>Morus alba</i>	White Mulberry
1%	1	<i>Thuja occidentalis</i>	White Cedar
1%	1	Unknown Deciduous Tree	Unknown Deciduous Tree (dead)
1%	1	Unknown Fruit Tree	Unknown Fruit Tree (dead)
100%	81	Total	

1.2.2 TREE REMOVAL AND PRESERVATION RECOMMENDATIONS

- Based on the proposed site plan, majority of the trees would need to be removed due to direct conflict with construction.
- Recommended preservation of 4 trees and 3 vegetation units located beyond the subject site.
- 13 trees located either on the property boundary or on the property of 1531 Stoneybrook Crescent require removal. Consent from the landowner of 1531 Stoneybrook Crescent is required.
- Follow pre, during, and post construction recommendations outlined in the Construction Impact Mitigation Recommendations in this report.

2.0 SUBJECT SITE AND SCOPE OF WORK

Refer to Figure 1 for scope of tree inventory.



Figure 1 – City of London Mapping, 2025. NTS
Red dashed line – Limit of inventory



3.0 METHODOLOGY

Fieldwork was completed on March 22, 2021 by Michelle Peeters, ISA certified arborist ON 2129A for the properties at 517, 521, and 525 Fanshawe Park Road East. Additional fieldwork was completed on February 5th, 2026 by Kathleen Garrett, ISA certified arborist ON 3009A for 1526 Geary Ave. A topographic survey provided by the client was used as a base for the field work and determined tree location/ownership. All trees

with a minimum DBH of 10cm within the given scope were identified and assessed. Each tree was assigned a number which are identified in the tree data table and on the tree preservation plan. Tree identification numbers include 1-81 and vegetation units 1-8.

The following information was recorded for each individual tree:

- Genus + specific epithet (Species)
- Diameter at breast height (DBH) (centimetres)
- Crown radius (metres)
- Crown Condition (overall general vigour of crown)
- Structural Form (excellent, good, fair, poor)
- Structural Integrity (good, fair, poor, hazard)
- General Comments

3.1 HEALTH ASSESSMENT

Trees were assessed following accepted arboricultural techniques and best practices using a limited visual inspection. The inspection included a 360-degree visual examination of the above-ground parts of each tree for structural defects including cavities, wounds, scars, external indicators of internal decay, evidence of insect presence, discoloured or deformed foliage, canopy and root distribution, and the overall condition of the tree. Evaluation of tree health was based on visible tree health indicators including live buds, foliage condition, deadwood, structural defects, form, and signs of disease or insect infestation. If needed, field observations were reviewed against available online imagery of the site to assist in determining tree canopy health. Quantified health assessments included in the inventory are explained here:

Crown Condition Assessment

- 5 Healthy: less than 10% crown decline
- 4 Slight decline: 11% - 30% crown decline
- 3 Moderate decline: 31% - 60% crown decline
- 2 Severe decline: 61% - 90% crown decline
- 1 Dead - No visible indication of living foliage or buds in crown

Structural Form Assessment

- Excellent: An ideal expression of a specific tree species, true to form, balanced canopy, good flare, typical internode length, full crown, etc.
- Good: A satisfactory and generally expected expression of a specific tree species, with only minor or typical variances from an ideal form.
- Fair: Nearly satisfactory, with defects or a combination of defects such as codominant leaders, unbalanced crown, poor/no flare, shortened internodes, has been poorly pruned, etc.
- Poor: Significantly flawed expression of a specific tree species

Structural Integrity Assessment

- Good: Defects if present are minor (e.g., twig dieback, small wounds); defective tree part is small (e.g., 5-8 cm diameter limb) providing little if any risk.
- Fair: Defects are numerous or significant (e.g., dead scaffold limbs); defective parts are moderate in size (e.g., limb greater than 5-8 cm in diameter).
- Poor: Defects are severe (trunk cavity in excess of 50%); defective parts are large (e.g., majority of crown).

Hazard: Defects are severe and acute; defective part or collective defective parts render the tree a high-risk threat to potential targets.

3.2 CRITICAL ROOT ZONES

The critical root zone of a tree is the portion of the root system that is the minimum necessary to maintain tree vitality and stability. Critical root zones are commonly prescribed by municipal bylaws based solely on DBH and/or drip line, and are typically expressed as a circular shape around the tree. There are a number of other factors, however, that are considered when establishing a critical root zone.

Factors that inform location and extent of a tree preservation barriers to protect the critical root zone include: species tolerance to root loss and other construction impacts (as established by authoritative resources and professional experience), tree trunk size (DBH), tree health and vigour, structural condition, landscape context, soil type, moisture availability, topography, ground cover, crown size (drip line) and balance, current physical root restrictions, visible root arrangement, relationship to neighbouring trees, relationship between tree and proposed construction, type of proposed construction, etc.

4.0 TREE INVENTORY AND PRESERVATION/REMOVAL RECOMMENDATIONS

4.1 TREE DATA TABLE

The following recommendations are based on requirements of the current site plan. Grey indicates recommended removal.

GENERAL INFORMATION				SIZE		HEALTH & CONDITION				RECOMMENDATIONS		
ID #	BOTANICAL NAME	COMMON NAME	LOCATION	DBH (cm)	CANOPY RADIUS (m)	CROWN CONDITION	STRUCTURAL FORM	STRUCTURAL INTEGRITY	COMMENTS	EXPECTED CONSTRUCTION IMPACT (CRZ = critical root zone)	PRESERVE OR REMOVE	NOTES IMPACT MITIGATION CONSENT REQUIREMENTS
TREES												
1	<i>Magnolia spp</i>	Magnolia	subject site	29, 28, 25, 24, 23, 19	6	5	good	good	Multistem 6, lovely specimen, minor epicormic growth, minor branch fusing, included bark at some unions	direct conflict with proposed site plan	remove	none
2	<i>Acer platanoides</i>	Norway Maple	subject site	73	8.5	4	good	good	Wide matted flare, loose crown, clustered primary union, fused branches	direct conflict with proposed site plan	remove	none
3	<i>Acer platanoides</i>	Norway Maple	City ROW	64	7	5	good	good	Wide flare, dead wood	direct conflict with proposed site plan	remove	Consent for tree removal has been acquired
4	<i>Acer platanoides</i>	Norway Maple	City ROW	29	3.5	5	good	good	On slope, salt damage	direct conflict with proposed site plan	remove	Consent for tree removal has been acquired
5	<i>Acer platanoides</i>	Norway Maple	City ROW	37	3.5	5	good	good	On slope, salt damage, diminished leader	direct conflict with proposed site plan	remove	Consent for tree removal has been acquired
6	<i>Picea glauca</i>	White Spruce	City ROW	29	3	4	good	good	Limbed up 2m, a bit scraggly	direct conflict with proposed site plan	remove	Consent for tree removal has been acquired

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7	<i>Acer platanoides</i>	Norway Maple	subject site	77	7	4	good	fair	Wide flare, elevated at base, minor trunk wounds, 1 scaffold branch cracking	direct conflict with proposed site plan	remove	none
8	<i>Magnolia spp</i>	Magnolia	subject site	31, 21, 18, 13	4	5	fair	good	Multistem 4, unbalanced crown, low crown, epicormic growth, fused branches	direct conflict with proposed site plan	remove	none
9	<i>Acer ginnala</i>	Amur Maple	subject site	<20	4	4	poor	poor	Multistem 12, stems emerging from around base of original (now dead) tree (stump), significant rot	poor condition	remove	none
10	<i>Picea abies</i>	Norway Spruce	subject site	45	4.5	5	good	good	Limbed up 2.5m	conflict with required grading	remove	none
11	<i>Pinus sylvestris</i>	Scotch Pine	BOUNDARY - Subject Site and City ROW	31	3	3	fair	good	Suppressed, diminished leader, limbed up 4m, thin crown	conflict with required grading	remove	Consent for tree removal has been acquired
12	<i>Pinus sylvestris</i>	Scotch Pine	subject site	30	3	3	fair	fair	Diminished leader, dead wood, circling root, limbed up 4m	conflict with required grading	remove	none
13	<i>Pinus sylvestris</i>	Scotch Pine	subject site	50	5	5	good	good	Limbed up 4m	direct conflict with proposed site plan	remove	none
14	<i>Acer ginnala</i>	Amur Maple	subject site	<20	4.5	4	poor	poor	Multistem 15, stems emerging from around base of original (now dead) tree (stump), significant rot, gnarly base	direct conflict with proposed site plan & poor condition	remove	none
15	<i>Juniperus virginiana</i>	Eastern Red Cedar	subject site	30	2.5	5	good	good	Limbed up 5m, codominant leaders	direct conflict with proposed site plan	remove	none
16	<i>Acer platanoides</i>	Norway Maple	subject site	32, 12	6	5	good	good	Multistem 2, on slope within coniferous hedge	direct conflict with proposed site plan	remove	none
17	<i>Acer platanoides</i>	Norway Maple	subject site	23, 23, 15, 10, 6	5.5	5	fair	good	Multistem 5, primary union below grade, on slope, scrubby form	direct conflict with proposed site plan	remove	none
18	<i>Morus alba</i>	Mulberry	subject site	13	4.5	4	fair	good	On slope, bent leader, suppressed	direct conflict with proposed site plan	remove	none
19	<i>Picea abies</i>	Norway Spruce	subject site	48	6	5	good	good	Limbed up 1.5m, dead lower branches	direct conflict with proposed site plan	remove	none
20	<i>Picea abies</i>	Norway Spruce	subject site	44	4	4	good	good	Limbed up 6m, dead lower branches	direct conflict with proposed site plan	remove	none
21	<i>Acer negundo</i>	Manitoba Maple	subject site	30	6	4	fair	fair	Lean NE, suppressed, unbalanced crown	direct conflict with proposed site plan	remove	none
22	<i>Picea abies</i>	Norway Spruce	1536 Geary Ave	~45	6	4	good	good	Limited visual access, limbed up 2m, dead lower branches	direct conflict with proposed site plan	remove	none
23	<i>Acer platanoides</i>	Norway Maple	BOUNDARY subject site & 1536 Geary Ave	13	4	4	fair	fair	Growing at fence line, slight lean N, suppressed, thin crown	direct conflict with proposed site plan	remove	none

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24	<i>Acer platanoides</i>	Norway Maple	BOUNDARY subject site & 1536 Geary Ave	16	5	4	fair	fair	Trunk grown through ex. chain-link fence, at centre of fence line, slight lean N	direct conflict with proposed site plan	remove	none
25	<i>Acer spp</i>	Maple	BOUNDARY subject site & 1536 Geary Ave	16	3	4	fair	good	30cm south of base of ex. fence	direct conflict with proposed site plan	remove	none
26	<i>Acer spp</i>	Maple	1536 Geary Ave	15	4	4	fair	good	1m south of base of ex. fence	direct conflict with proposed site plan	remove	none
27	<i>Unknown Deciduous Tree</i>	Unknown Deciduous Tree	BOUNDARY subject site & 1536 Geary Ave	16	3	5	fair	good	40cm south of base of ex. fence, scraggly form	direct conflict with proposed site plan	remove	none
28	<i>Ulmus pumila</i>	Siberian Elm	subject site	30	5	4	fair	fair	Trunk grown through ex. chain-link fence, dead wood, scraggly form	root damage expected, undesirable tree species and condition (grown through fence)	remove	none
29	<i>Ulmus pumila</i>	Siberian Elm	subject site	22	5	4	fair	fair	Trunk grown through ex. chain-link fence, dead wood, scraggly form, bulgy base	root damage expected, undesirable tree species and condition (grown through fence)	remove	none
30	<i>Unknown Fruit Tree</i>	Unknown Fruit Tree	subject site	13, 9, 9, 8	3.5	5	good	good	Multistem 4	significant root damage	remove	none
31	<i>Acer platanoides</i>	Norway Maple	subject site	50	5	4	fair	fair	Heavily pruned, thin crown, cracking branches, dead wood	direct conflict with proposed site plan	remove	none
32	<i>Acer platanoides</i>	Norway Maple	subject site	40	5.5	5	good	good	Minor bark cracking	significant root damage	remove	none
33	<i>Malus spp</i>	Apple	subject site	37	5	5	good	good	Minor dead wood and epicormic growth	direct conflict with proposed site plan	remove	none
34	<i>Malus spp</i>	Apple	subject site	28, 22, 19	6	4	fair	fair	Multistem 3, dead wood, scraggly form, half of root system under flagstone patio	direct conflict with proposed site plan	remove	none
35	<i>Acer platanoides 'Royal Red'</i>	Royal Red Norway Maple	subject site	33	4	5	good	good	Slight lean NE	direct conflict with proposed site plan	remove	none
36	<i>Acer platanoides 'Royal Red'</i>	Royal Red Norway Maple	subject site	47	5.5	5	good	good	Minor salt damage, lesions on trunk - may need to confirm canopy health after bud break	conflict with removal of adjacent ex. driveways and necessary grading	remove	none
37	<i>Picea pungens var. glauca</i>	Colorado Blue Spruce	subject site	25	2.5	5	good	good	Full form, branched to grade	conflict with required grading	remove	none

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38	<i>Picea pungens</i> var. <i>glauca</i>	Colorado Blue Spruce	subject site	25	2.5	5	good	good	Full form, branched to grade	conflict with required grading	remove	none
39	<i>Picea pungens</i> var. <i>glauca</i>	Colorado Blue Spruce	subject site	25	2.5	5	good	good	Full form but a bit thin, branched to grade	conflict with required grading	remove	none
40	<i>Acer platanoides</i> 'Royal Red'	Royal Red Norway Maple	subject site	13	2.5	5	good	good	Suppressed, heavy S	conflict with required grading	remove	none
41	<i>Picea pungens</i> var. <i>glauca</i>	Colorado Blue Spruce	subject site	25	2.5	5	good	good	Full form, branched to grade	conflict with required grading	remove	none
42	<i>Picea pungens</i> var. <i>glauca</i> 'Fastigiata'	Columnar Blue Spruce	subject site	13	1	5	good	good	Limbed up 1m	Not suitable for the landscape, open up space for full development of tree #45	remove	none
43	<i>Picea pungens</i> var. <i>glauca</i> 'Fastigiata'	Columnar Blue Spruce	subject site	13	1	5	good	good	Limbed up 1m	Not suitable for the landscape, open up space for full development of tree #45	remove	none
44	<i>Picea pungens</i> var. <i>glauca</i> 'Fastigiata'	Columnar Blue Spruce	subject site	11	1	5	good	good	Limbed up 1m	Not suitable for the landscape, open up space for full development of tree #45	remove	none
45	<i>Acer platanoides</i> 'Royal Red'	Royal Red Norway Maple	subject site	12	2.5	5	good	good	On slope	no impact to CRZ	preserve	tree protection fencing
46	<i>Acer platanoides</i>	Norway Maple	subject site	46	5	5	good	good	Full form, bottom of slope	conflict with proposed grading	remove	none
47	<i>Acer platanoides</i>	Norway Maple	1543 Stoneybrook Cres	31	4.5	5	fair	good	Scraggly lower branches	no impact to CRZ	preserve	tree protection fencing
48	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Honeylocust	subject site	10	2	2	good	good	Mostly dead	direct conflict with proposed site plan	remove	none
49	<i>Acer saccharinum</i>	Silver Maple	subject site	95	9	5	excellent	good	Minor dead wood, full form, excellent condition for a mature Silver Maple	direct conflict with proposed site plan	remove	none
50	<i>Picea abies</i>	Norway Spruce	1543 Stoneybrook Cres	~45, 45	6	5	good	good	Multistem 2, limited visual access, limbed up 6m	CRZ to be protected by tree protection fencing	preserve	tree protection fencing
51	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	30, 26	3	5	fair	fair	Multistem 2, limbed up 6m, codominant leaders with included bark	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required

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52	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	30	3	5	good	good	Limbed up 5m	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
53	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	37	3	4	good	good	Limbed up 6m, sparse crown	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
54	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	34	3	5	good	good	Limbed up 6m	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
55	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	45	4	5	good	good	Limbed up 6m, droopy branches	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
56	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	32	3	5	good	good	Limbed up 6m, a bit thin	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
57	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	30	4	5	good	good	Limbed up 6m	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
58	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	39	3	5	good	good	Limbed up 6m, a bit thin	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
59	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	32	4	5	good	good	Limbed up 6m	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required
60	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	18	2	2	good	good	Very thin crown	conflict with proposed underground parking garage	remove	consent from 1531 Stoneybrook Crescent required

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61	<i>Picea glauca</i>	White Spruce	BOUNDARY subject site & 1531 Stoneybrook Cres	20	2	1	good	good	dead	dead tree	remove	consent from 1531 Stoneybrook Crescent required
62	<i>Malus spp</i>	Apple	subject site	23	2.5	2	poor	poor	Significant vertical trunk wound with rot, dead limbs, heavily pruned	direct conflict with proposed site plan	remove	none
63	<i>Malus spp</i>	Apple	1536 Geary Ave	28	2.5	4	fair	fair	deadwood, large wounds, typical form	direct conflict with proposed site plan	remove	none
64	<i>Malus spp</i>	Apple	1536 Geary Ave	27	2.5	5	fair	good	epicormic growth, typical form	direct conflict with proposed site plan	remove	none
65	<i>Acer saccharinum</i>	Silver Maple	1536 Geary Ave	85	4	4	fair	good	minor deadwood, low primary union	direct conflict with proposed site plan	remove	none
66	<i>Acer platanoides</i>	Norway Maple	1532 Geary Ave	~40	3	3	fair	good	limited assessment from distance view, low union	no conflict	preserve	none
67	<i>Pinus strobus</i>	White Pine	1536 Geary Ave	68	4	4	poor	fair	major branch split from crown, central leader snapped	direct conflict with proposed site plan	remove	none
68	<i>Pinus strobus</i>	White Pine	1536 Geary Ave	63	4	4	poor	fair	multiple fallen limbs, deadwood	direct conflict with proposed site plan	remove	none
69	<i>Acer platanoides</i>	Norway Maple	1536 Geary Ave	65	3.5	5	fair	good	minor cavity at union	direct conflict with proposed site plan	remove	none
70	<i>Picea abies</i>	Norway Spruce	1536 Geary Ave	55	4	4	fair	good	limbed up, sparse	direct conflict with proposed site plan	remove	none
71	<i>Picea abies</i>	Norway Spruce	1536 Geary Ave	~65	4	4	fair	good	slightly sparse	direct conflict with proposed site plan	remove	none
72	<i>Tsuga canadensis</i>	Hemlock	1536 Geary Ave	12	1.5	5	good	good	limbed up, ornamental	direct conflict with proposed site plan	remove	none
73	<i>Tsuga canadensis</i>	Hemlock	1536 Geary Ave	11	1.5	5	good	good	limbed up, ornamental	direct conflict with proposed site plan	remove	none
74	<i>Acer negundo</i>	Manitoba Maple	1531 Stoneybrook Cres	~25, 15	2	4	poor	poor	leaning east, prune wounds	direct conflict with proposed site plan	remove	consent from 1531 Stoneybrook Crescent required
75	<i>Acer saccharum</i>	Sugar Maple	1531 Stoneybrook Cres	~30	2.5	5	good	good	lower branches removed	direct conflict with proposed site plan	remove	consent from 1531 Stoneybrook Crescent required
76	<i>Acer platanoides</i>	Norway Maple	1531 Stoneybrook Cres	~40	3	4	fair	fair	minor cavity, deadwood	direct conflict with proposed site plan	remove	consent from 1531 Stoneybrook Crescent required
77	<i>Picea abies</i>	Norway Spruce	1536 Geary Ave	46	3.5	4	fair	fair	limbed up, sparse	direct conflict with proposed site plan	remove	none

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ID #	BOTANICAL NAME	COMMON NAME	LOCATION	DBH (cm)	CANOPY RADIUS (m)	CROWN CONDITION	STRUCTURAL FORM	STRUCTURAL INTEGRITY	COMMENTS	EXPECTED CONSTRUCTION IMPACT (CRZ = critical root zone)	PRESERVE OR REMOVE	NOTES IMPACT MITIGATION CONSENT REQUIREMENTS
78	<i>Pinus strobus</i>	White Pine	1536 Geary Ave	18	1	5	fair	good	limbed up	direct conflict with proposed site plan	remove	none
79	<i>Thuja occidentalis</i>	White Cedar	1536 Geary Ave	24	2	5	good	good		direct conflict with proposed site plan	remove	none
80	<i>Picea pungens</i> var. <i>glauca</i>	Colorado Blue Spruce	1536 Geary Ave	28	2.5	5	good	good		direct conflict with proposed site plan	remove	none
81	<i>Pinus strobus</i>	White Pine	1536 Geary Ave	12	1.5	5	good	good	limbed up	direct conflict with proposed site plan	remove	none
VEGETATION UNITS												
Veg 1	<i>Thuja occidentalis</i> 'Nigra'	Black Cedar Hedge	subject site	<10	0.5	5	good	good	23m long hedge, tightly pruned and very well maintained	very minor root damage expected	preserve	tree protection fencing
Veg 2	<i>Thuja occidentalis</i> 'Nigra'	Black Cedar Hedge	subject site	5 -15	1	5	good	good	12m long hedge, a bit loose	direct conflict with proposed site plan	remove	none
Veg 3	<i>Thuja occidentalis</i> 'Nigra'	Black Cedar Hedge	subject site	10 - 15	1	5	good	good	12m long hedge, loose	direct conflict with proposed site plan	remove	none
Veg 4	<i>Thuja occidentalis</i> 'Nigra'	Black Cedar Hedge	subject site	10 - 25	1	4	fair	good	16m long hedge, loose and scraggly	direct conflict with proposed site plan	remove	none
Veg 5	<i>Thuja occidentalis</i> 'Smaragd'	Emerald Cedar Group	City ROW	<10	0.5	5	good	good	12 individual trees in a group	not suitable for City ROW	remove	Consent for tree removal has been acquired
Veg 6	<i>Thuja occidentalis</i> 'Nigra'	Black Cedar Hedge	1543 Stoneybrook Cres	10 - 25	1	4	fair	good	23m long hedge, a bit loose, partially shaded out	no impact expected	preserve	tree protection fencing
Veg 7	<i>Thuja occidentalis</i> 'Nigra'	Black Cedar Hedge	1537 Stoneybrook Cres	~20	1	4	fair	good	8m long hedge, loose and leggy	very minor root damage expected	preserve	tree protection fencing
Veg 8	<i>Thuja occidentalis</i> 'Smaragd'	Emerald Cedar Hedge	subject site	<10	0.5	5	good	good	50m long L shaped hedge, individuals are spaced out, not forming a continuous hedge	Not suitable for the landscape	remove	none
Veg 9	<i>Thuja occidentalis</i> 'Smaragd'	Emerald Cedar Hedge	1532 Geary Ave	~5-10	1	5	good	good	approx. 30 meter long hedge, dense hedge	no conflict	preserve	tree protection fencing

5.0 POTENTIAL CONSTRUCTION IMPACTS ON TREES

Most trees have been recommended for removal due to direct conflict with the proposed development. Some trees that have been recommended for preservation may be in proximity to the proposed construction. Trees to be preserved may be affected by the construction process, or by the construction itself. It is imperative that the design team and the construction crew understand the potential for, and the causes of tree damage. Trees recommended for preservation may experience some or

all of the following potential construction impacts. Strategies and methods to avoid these impacts are outlined in the Construction Impact Mitigation Recommendations section of this report.

5.1 SOIL COMPACTION

Soil compaction is caused by heavy or repeated compression or vibration of the soil around the tree. Soil compaction reduces the amount and size of macro and micro pore space that is vital for subsurface movement of air and water. The harmful effects of soil compaction include, but are not limited to: slower water infiltration, poor aeration, reduced root growth and an overall increased susceptibility to biotic and abiotic stressors.

5.2 ROOT LOSS

Root loss occurs when roots are severed. The majority of roots are typically located within the top 60cm of soil and can extend outward up to three times the extent of the tree drip line. Excavation of any kind within the critical root zone* can sever roots. Two categories of roots need to be considered when evaluating impacts of root loss - small, fibrous absorbing roots, and large structural roots. Significant loss of either or both of these functions can cause stress and/or affect the structural stability of the tree. Note, however, that it is commonly accepted that healthy trees can typically tolerate and recover from the removal of approximately 33% (up to a maximum of 50%) of their root mass. Thorough consideration regarding extent of acceptable root removal is dependent on individual species characteristics, root loss distribution, and site-specific conditions (*ref. Trees and Development: A Technical Guide to Preservation of Trees During Land Development by Nelda Matheny and James R. Clark, 1998. Pg 72*).

* Refer to 'Critical Root Zones' in this report for definition.

5.3 GRADE CHANGES

Lowering of the grade around trees has immediate and long-term effects on trees. Lowering of grade requires immediate root loss from cutting the roots which results in water stress from the root removal and potential reduced structural stability.

Raising the grade around a tree can be equally damaging. The addition of fill over the root zone of a tree alters the roots' ability for normal water and gas exchange that is necessary for healthy root growth and stability. Fill essentially suffocates the roots and can lead to the slow and eventual decline of the tree.

5.4 MECHANICAL DAMAGE

Mechanical damage is caused by physical contact with a tree that damages the tree to any degree. During land development and construction activities, there is an increased risk of both minor and fatal mechanical damage to trees from construction equipment. Minor damage can create entry points for insects and pathogens, and fatal damage can cause irreparable structural damage.

5.5 CHANGES TO EXPOSURE - SUN AND WIND

Trees can be negatively affected by increased exposure to sun or wind when neighbouring trees are removed. This can be of particular concern when 'interior trees' (trees that have developed surrounded by other trees) are suddenly exposed to forest edge conditions. These trees may experience higher intensity of direct sunlight resulting in leaf scald, and instability due to increased wind and snow loads.

Trees can be negatively affected by decreased exposure to sunlight. Proposed development that includes tall buildings located to the south and west of mature existing trees can greatly reduce the amount of daily direct sunlight. While this change in environment may not cause the immediate or eventual death of a tree, it can certainly slow development and alter growing habits and patterns, and must therefore be a consideration when evaluating trees for potential preservation.

5.6 SOIL CONTAMINATION

Soil health around a tree can be compromised by contamination from spills or leaks of fuels, solvents, or other construction related fluids.

5.7 WATER AVAILABILITY

Grading and servicing requirements for development can affect water availability for trees. Trees may experience a loss of available water due to a lowered water table or the capture or redirection of subsurface and/or overland flow. Conversely, trees may experience an increase of available water due to changes in site grading and storm water retention efforts.

The successful survival of the trees to be preserved is largely dependent on adhering to the construction impact mitigation recommendations that follow.

6.0 CONSTRUCTION IMPACT MITIGATION RECOMMENDATIONS

The following general recommendations are provided to guide the removal process, mitigate construction impacts, and ensure compliance with provincial, federal, and municipal regulatory requirements. Some of the recommendations listed below are noted to be undertaken by an ISA certified arborist.

6.1 PRE-CONSTRUCTION RECOMMENDATIONS

- a) Prior to any construction activity, tree preservation fencing is to be installed as per the attached tree preservation drawings and detail.
- b) Trees approved for removal are to be clearly indicated in the field (marked with spray paint or other agreed upon method) by the project arborist or landscape architect prior to any tree removal operations. All removals to be undertaken by an ISA certified arborist.
- c) In accordance with the Migratory Birds Convention Act, 1994, all removals must take place between September 1st and March 31st to avoid disturbing nesting migratory birds. If tree removal occurs between April 1st and August 31st, a biologist is required to complete a search for nests. Once cleared, the contractor has 48 hours to remove. If removal does not occur within 48 hours, another search will be required.
- d) Care should be taken during the felling operation to avoid damaging the branches, stems, trunks, and roots of nearby trees to be preserved. Where possible, all trees are to be felled towards the construction zone to minimize impacts on adjacent vegetation. All removals to be undertaken by an ISA certified arborist.
- e) It is recommended that the existing ground-layer vegetation at the base of trees to be preserved remain intact within the critical root zone so as not to disturb the soil around the base of the existing trees.
- f) Final site grading plans should ensure that the existing soil moisture conditions are maintained.

6.2 RECOMMENDATIONS RELATED TO THE CONSTRUCTION PROCESS

- a) Tree preservation fencing is to be maintained in good condition and effective for the duration of construction until all construction activity is complete or as per the project arborist or landscape architect.
- b) Tree preservation fencing is to remain intact as per the tree preservation drawings, and can only be temporarily removed with the express written consent from the project arborist or landscape architect. Should tree preservation fencing be temporarily relocated or moved, it is to be reinstated as per the tree preservation plans as soon as possible.
- c) No construction, excavation, adding of fill, stockpiling of construction material, or heavy equipment is permitted within the critical root zone/within the tree preservation fencing.
- d) When excavation near a tree is required, and it is anticipated that roots will be severed and exposed, duration of exposure is to be minimized to prevent root desiccation.
- e) During the excavation process, roots 25mm or larger that are severed and exposed should be hand pruned to leave a clean-cut surface. To be undertaken by an ISA certified arborist. Exposed severed roots that cannot be covered in soil on the same day as the cuts are made are to be kept moist. Exposed roots are to be kept moist by covering them with water-soaked burlap or any other means available to prevent them from drying out.
- f) Avoid idling heavy equipment under or within close proximity to trees to be preserved to prevent canopy damage from exposure to the heat of the exhaust.
- g) Broken branches on trees within the subject site to be preserved should be cleanly cut as soon as possible after the damage has occurred. To be undertaken by an ISA certified arborist.

6.3 POST-CONSTRUCTION RECOMMENDATIONS

- a) Avoid discharging rain water leaders adjacent to retained trees, as this may result in an overly moist environment which can cause root rot.
- b) After all work is completed, tree preservation fences and any other impact mitigation material must be removed.
- c) A final review must be undertaken by the project arborist or landscape architect to ensure that all mitigation measures as described above have been met.

7.0 DISCLAIMER

The assessment of the trees presented within this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay, evidence of insect presence, discoloured foliage, the general condition of the trees and the surrounding site, as well as the proximity of property and people. None of the trees examined were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigour is constantly changing. They are not immune to changes in site conditions or seasonal variations in the weather.

While reasonable efforts have been made to ensure the trees recommended for retention are healthy, no guarantees are offered or implied, that these trees or any part of them will remain standing.

Note that this arborist report has been prepared using the latest drawings and information provided by the client. Any subsequent design or site plan changes affecting trees may require revisions to this report. Any new information or drawings are to be provided to RKLA prior to report submission to planning authorities.

8.0 CONTACT INFORMATION

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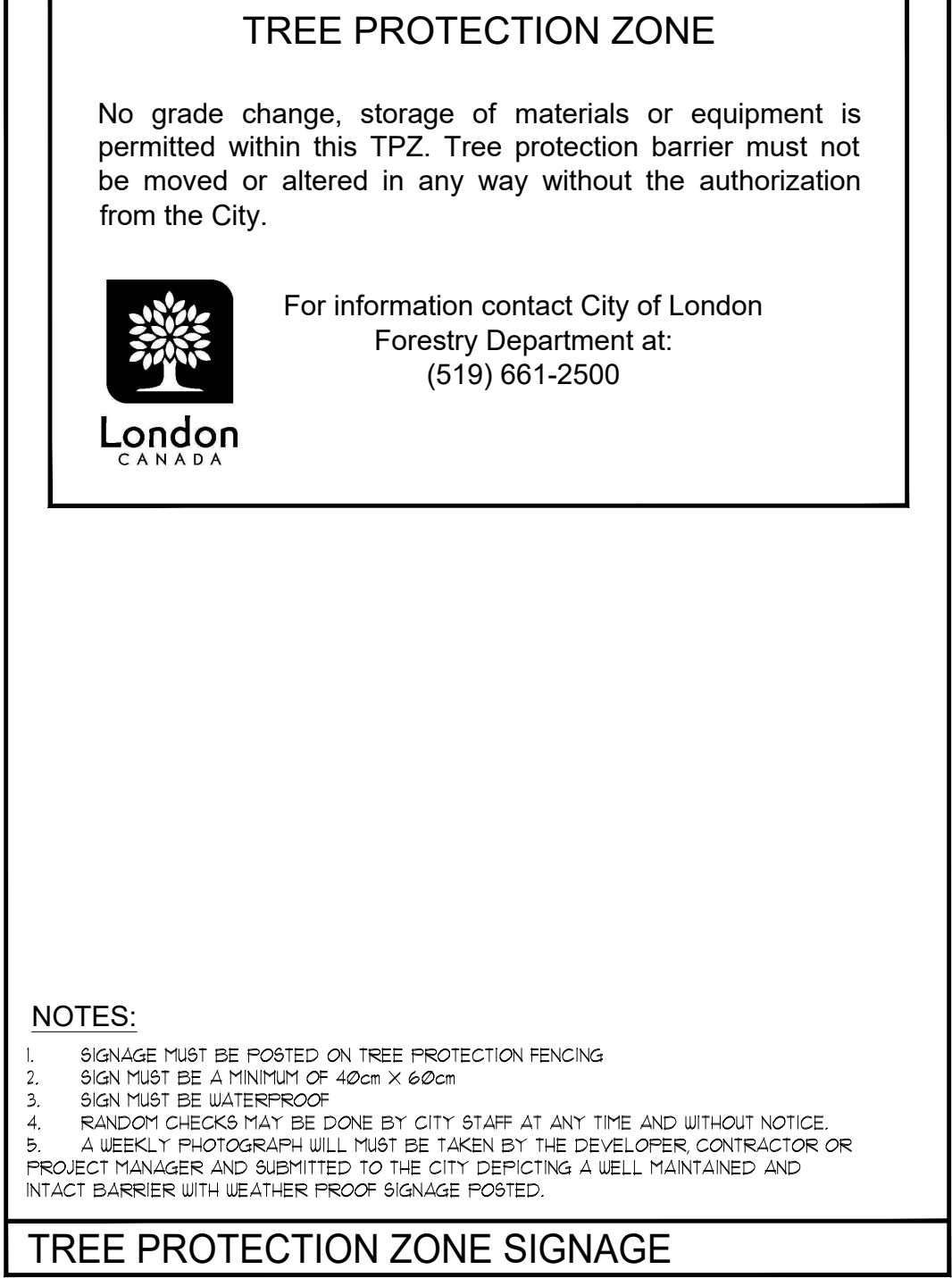
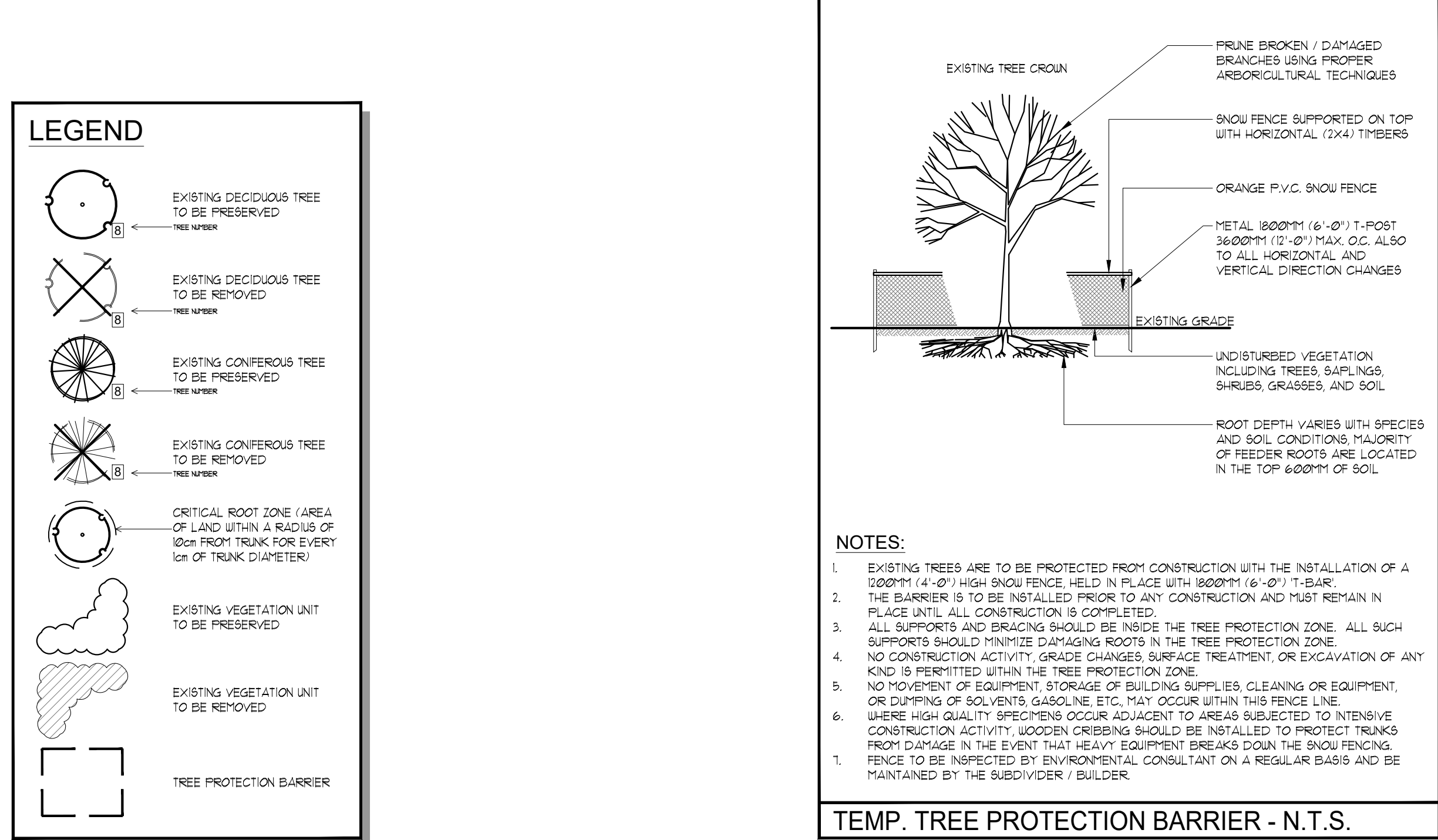
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9.0 APPENDIX A - TREE PRESERVATION DRAWINGS

REFER TO TREE ASSESSMENT REPORT FOR ADDITIONAL INFORMATION
& CONSTRUCTION IMPACT MITIGATION RECOMMENDATIONS



TREES & VEGETATION UNITS RECOMMENDED FOR REMOVAL												
GENERAL INFORMATION				SIZE	HEALTH & CONDITION			RECOMMENDATIONS				
ID#	BOTANICAL NAME	COMMON NAME	LOCATION	DBH (cm)	LEAVY COVERAGE (%)	STRUCTURAL CONDITION	COMMENTS	EXPECTED CONSTRUCTION IMPACT (02 = critical root zone)	RECOMMENDATION	NOTES	IMPACT MITIGATION REQUIREMENTS	
TREES												
1	Magnolia spec	Magnolia	subject site	25.20, 25.21, 25.18	5	good	Malicious & leafy specimen minor epicormic growth, minor branch damage, isolated dead at crown apex	direct conflict with proposed site plan	remove	none		
2	Aster platensis	Norway Maple	subject site	75	85	4	good	Minor branch damage, low crown, clustered primary units, dead branches	direct conflict with proposed site plan	remove	none	
3	Aster platensis	Norway Maple	City ROW	64	7	5	good	Wide tree, dead wood	direct conflict with proposed site plan	remove	consent for tree removal has been acquired	
4	Aster platensis	Norway Maple	City ROW	70	35	5	good	Trunk split, dead wood	direct conflict with proposed site plan	remove	consent for tree removal has been acquired	
5	Aster platensis	Norway Maple	City ROW	51	33	5	good	Trunk split, damage, diminished leader	direct conflict with proposed site plan	remove	consent for tree removal has been acquired	
6	Rosa glabra	White Spirea	subject site	29	3	5	good	Imbedded up to 2nd whorls	direct conflict with proposed site plan	remove	consent for tree removal has been acquired	
7	Aster platensis	Norway Maple	subject site	77	4	4	fair	Wide tree, elevated at base, minor trunk wounds, 1 scaffold branch cracking	direct conflict with proposed site plan	remove	none	
8	Magnolia spec	Magnolia	subject site	31, 21.8, 6	4	5	fair	Malicious & unbalanced crown, low crown, epicormic growth, dead branches	direct conflict with proposed site plan	remove	none	
9	Aster girardinii	Norway Maple	subject site	<10	4	4	poor	Malicious & stems emerging from around base of original low crown tree stump, significant root grafting issue	poor condition	remove	none	
10	Rosa alba	Arma Spirea	subject site	55	45	5	good	Imbedded up to 1st whorl	conflict with required grading	remove	none	
11	Rosa serotina	South-Pine	BOUNDARY - Subject Site and City ROW	31	3	3	fair	Imbedded, diminished leader, imbedded up to the crown	conflict with required grading	remove	consent for tree removal has been acquired	
12	Rosa serotina	South-Pine	subject site	50	5	5	fair	Imbedded leader, dead wood, striking root, imbedded in rim	conflict with required grading	remove	none	
13	Rosa serotina	South-Pine	subject site	50	5	5	good	Imbedded up to rim	direct conflict with proposed site plan	remove	none	
14	Aster girardinii	Arma Maple	subject site	<10	43	4	fair	Malicious & stems emerging from around base of original low crown tree stump, significant root grafting issue	direct conflict with proposed site plan & poor condition	remove	none	
15	Aster platensis	Norway Maple	subject site	30	25	5	good	Imbedded up to 1st whorl	direct conflict with proposed site plan	remove	none	
16	Aster platensis	Norway Maple	subject site	32	6	5	good	Malicious & on slope with compromised leader	direct conflict with proposed site plan	remove	none	
17	Aster platensis	Norway Maple	subject site	22, 15, 6, 12, 5.5	5	5	fair	Malicious & primary unit below grade, on slope, scrubby form	direct conflict with proposed site plan	remove	none	
18	Hamamelis virginica	Hamamelis	subject site	50	43	4	fair	Trunk split, leader, supported	direct conflict with proposed site plan	remove	none	
19	Rosa alba	Norway Spirea	subject site	48	6	4	good	Imbedded up to 1st dead lower branches	direct conflict with proposed site plan	remove	none	
20	Rosa alba	Norway Spirea	subject site	41	4	4	good	Imbedded up to 1st dead lower branches	direct conflict with proposed site plan	remove	none	
21	Aster rugosus	Maritima Maple	subject site	30	6	4	fair	Leafy, supported, unbalanced crown	direct conflict with proposed site plan	remove	none	
22	Rosa alba	Norway Spirea	City ROW	45	6	4	good	Imbedded equal across, imbedded up to 1st dead lower branches	direct conflict with proposed site plan	remove	none	
23	Aster platensis	BOUNDARY - subject site & City ROW	subject site	5	4	4	fair	Lowest of three tree, slight leaf loss, supported, threatened	direct conflict with proposed site plan	remove	none	
24	Aster platensis	BOUNDARY - subject site & City ROW	subject site	6	5	4	fair	Trunk grow through, chain-link fence, at center of tree line, slight damage	direct conflict with proposed site plan	remove	none	
25	Aster spec	Maple	BOUNDARY - subject site & City ROW	6	3	4	fair	Rim south of base of tree, fence	direct conflict with proposed site plan	remove	none	
26	Aster spec	Maple	City ROW	6	4	4	fair	Imbedded base of tree, fence	direct conflict with proposed site plan	remove	none	
27	Unknown Deciduous tree	BOUNDARY - subject site & City ROW	subject site	6	3	5	fair	Imbedded base of tree, fence, scrubby form	direct conflict with proposed site plan	remove	none	
28	Ulmus americana	Green Elm	subject site	30	5	4	fair	Trunk grow through, chain-link fence, dead wood, scrubby form	not damage expected, undesirable tree species and condition (green through fence)	remove	none	
29	Ulmus americana	Green Elm	subject site	22	5	4	fair	Trunk grow through, chain-link fence, dead wood, scrubby form, tully base	not damage expected, undesirable tree species and condition (green through fence)	remove	none	
30	Unknown tree	Unknown tree	subject site	6, 9, 18	35	5	good	Malicious & significant root damage	not damage expected	remove	none	
31	Aster platensis	Norway Maple	subject site	50	5	4	fair	Heard, ground, threatened, crushing branches, dead wood	direct conflict with proposed site plan	remove	none	
32	Aster platensis	Norway Maple	subject site	40	55	5	good	Minor bark cracking	significant root damage	remove	none	
33	Malus spec	Apple	subject site	51	5	5	good	Malicious & dead wood and epicormic growth	direct conflict with proposed site plan	remove	none	
34	Malus spec	Apple	subject site	20, 28	6	4	fair	Malicious & dead wood, scrubby form, half of root system underground	direct conflict with proposed site plan	remove	none	
35	Aster platensis	Rosa Red Norway Maple	subject site	53	4	5	good	Light damage	direct conflict with proposed site plan	remove	none	
36	Aster platensis	Rosa Red Norway Maple	subject site	47	55	5	good	Minor split damage, lesions on trunk - may need to confirm crown health after tree break	direct conflict with removal of adjacent tree, driveway and necessary grading	remove	none	
37	Rosa rugosa	Calceola Blue Spirea	subject site	25	25	5	good	Full form, branched to grade	conflict with required grading	remove	none	
38	Rosa rugosa	Calceola Blue Spirea	subject site	2	25	5	good	Full form, but 1 bit, branched to grade	conflict with required grading	remove	none	
39	Rosa rugosa	Calceola Blue Spirea	subject site	25	25	5	good	Full form, but 1 bit, branched to grade	conflict with required grading	remove	none	
40	Aster platensis	Rosa Red Norway Maple	subject site	53	25	5	good	Light damage	conflict with required grading	remove	none	
41	Rosa rugosa	Calceola Blue Spirea	subject site	25	25	5	good	Full form, branched to grade	conflict with required grading	remove	none	
42	Rosa rugosa	Calceola Blue Spirea	subject site	5	1	5	good	Imbedded up to rim	not suitable for the landscape, open up space for full development of tree #5	remove	none	
43	Rosa rugosa	Calceola Blue Spirea	subject site	5	1	5	good	Imbedded up to rim	not suitable for the landscape, open up space for full development of tree #5	remove	none	
44	Rosa rugosa	Calceola Blue Spirea	subject site	5	1	5	good	Imbedded up to rim	not suitable for the landscape, open up space for full development of tree #5	remove	none	
45	Rosa rugosa	Calceola Blue Spirea	subject site	5	1	5	good	Imbedded up to rim	not suitable for the landscape, open up space for full development of tree #5	remove	none	
46	Rosa rugosa	Calceola Blue Spirea	subject site	46	5	5	good	Full form, bottom of slope	conflict with proposed grading	remove	none	
47	Ulmus americana	Green Elm	subject site	10	7	7	good	Healthy dead	direct conflict with proposed site plan	remove	none	
48	Aster saxatilis	Sliver Maple	subject site	55	9	5	excellent	Healthy dead	direct conflict with proposed site plan	remove	none	
49	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	30, 36	3	5	good	Minor dead wood, full form, excellent condition for a mature tree	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
50	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	30	3	5	good	Imbedded up to rim	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
51	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	31	3	4	good	Imbedded up to rim, sparse crown	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
52	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	34	3	5	good	Imbedded up to rim	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
53	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	45	4	5	good	Imbedded up to rim, droopy branches	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
54	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	52	5	5	good	Imbedded up to rim, a bit thin	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
55	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	30	4	5	good	Imbedded up to rim	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
56	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	39	3	5	good	Imbedded up to rim, a bit thin	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
57	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	52	4	5	good	Imbedded up to rim	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
58	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	88	2	2	good	Very threatened	conflict with proposed underground parking garage	remove	consent from E33 Stonybrook Cnsent required	
59	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	20	2	1	good	Dead tree	dead tree	remove	consent from E33 Stonybrook Cnsent required	
60	Rosa placea	White Spirea	BOUNDARY - subject site & E33 Stonybrook Cns	25	25	2	good	Significant vertical trunk wound without dead limbs, heavily injured	direct conflict with proposed site plan	remove	none	
61	Rosa placea	White Spirea	City ROW	28	23	4	fair	Deadwood, dead wood, typical form	direct conflict with proposed site plan	remove	none	
62	Rosa placea	White Spirea	City ROW	27	25	5	fair	Epicormic growth, typical form	direct conflict with proposed site plan	remove	none	
63	Aster saxatilis	Sliver Maple	City ROW	85	4	4	fair	Minor deadwood, damaged form	direct conflict with proposed site plan	remove	none	
64	Rosa placea	White Spirea	City ROW	68	4	4	poor	Major branch split at crown, central leader snapped	direct conflict with proposed site plan	remove	none	
65	Rosa placea	White Spirea	City ROW	67	4	4	poor	Major branch split at crown, central leader snapped	direct conflict with proposed site plan	remove	none	
66	Aster platensis	Norway Maple	City ROW	65	35	5	fair	Minor branch split at crown, central leader snapped	direct conflict with proposed site plan	remove	none	
67	Rosa placea	Norway Spirea	City ROW	55	8	4	fair	Imbedded up to, sparse	direct conflict with proposed site plan	remove	none	
68	Rosa placea	Norway Spirea	City ROW	46	4	4	fair	Imbedded up to, sparse	direct conflict with proposed site plan	remove	none	
69	Rosa placea	Norway Spirea	City ROW	37	15	5	good	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
70	Rosa placea	Norway Spirea	City ROW	27	15	5	good	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
71	Rosa placea	Norway Spirea	City ROW	11	15	5	good	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
72	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
73	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
74	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
75	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
76	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
77	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
78	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
79	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
80	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
81	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
82	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
83	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
84	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
85	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
86	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
87	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
88	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
89	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
90	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
91	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
92	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
93	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
94	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
95	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
96	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
97	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
98	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
99	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
100	Rosa placea	Norway Spirea	City ROW	23	25	4	fair	Imbedded up to, ornamental	direct conflict with proposed site plan	remove	none	
VEGETATION												
101	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
102	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
103	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
104	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
105	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
106	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
107	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
108	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
109	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
110	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
111	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
112	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
113	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
114	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
115	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
116	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
117	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
118	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
119	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge, 4-6 inch	direct conflict with proposed site plan	remove	none	
120	Vegetation	Black Cedar hedge	subject site	8-15	1	5	good	Thin long hedge,				

TREES & VEGETATION UNITS RECOMMENDED FOR PRESERVATION											
GENERAL INFORMATION				SIZE	HEALTH & CONDITION				RECOMMENDATIONS		
ID #	BOTANICAL NAME	COMMON NAME	LOCATION	DBH (cm)	CROWN SPREAD (m)	STRUCTURAL FORM	ECOLOGICAL INTEGRITY	COMMENTS	EXPECTED CONSTRUCTION IMPACT (Q2 - critical root zone)	PRESERVE OR REMOVE	NOTES - IMPACT MITIGATION CONCERN REQUIREMENTS
45	<i>Aster platensis Royal Aze*</i>	Royal Aze Highway	subject site	Q	23.5	5	good	fringe	no impact to Q2	preserve	tree protection fencing
46	<i>Aster platensis</i>	Highway Hwy	8455 Shorebrook Cms	30	42.5	5	fair	scraggly lower branches	no impact to Q2	preserve	tree protection fencing
50	<i>Alnus incana</i>	Highway Hwy	8455 Shorebrook Cms	-6.5	4	5	good	multitrunk, limited visual access, limbed up 6m	Q2 to be protected by tree protection fencing	preserve	tree protection fencing
66	<i>Aster platensis</i>	Highway Hwy	8522 Geary Ave	-6	3	3	fair	limited assessment from distance view, low union	no impact	preserve	tree protection fencing
VEGETATION UNITS											
Veq1	<i>Thapa occidentalis Royal Aze*</i>	Black Cedar Hedge	subject site	+0	0.5	5	good	3m long hedge, healthy, pruned and very well maintained	very minor root damage expected	preserve	tree protection fencing
Veq2	<i>Thapa occidentalis</i>	Black Cedar Hedge	Black Cedar Highway	10.35	1	4	fair	2m long hedge, still healthy, partially shaded out	no impact expected	preserve	tree protection fencing
Veq3	<i>Thapa occidentalis</i>	Black Cedar Hedge	8522 Shorebrook Cms	30	4	4	fair	8m long hedge, base and logs	very minor root damage expected	preserve	tree protection fencing
Veq3.5	<i>Thapa occidentalis Emerald Cedar Hedge*</i>	Emerald Cedar Hedge	8522 Geary Ave	-5.10	1	5	good	approx. 30 meter long hedge, dense hedge	no impact	preserve	tree protection fencing

