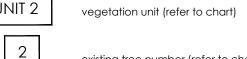


LEGEND

KEY MAP - N.T.S.



— – – property line

existing tree number (refer to chart)



existing vegetation to remain

existing vegetation to be removed

existing elevations

tree protection fence (with silt fence) - see detail D1, L-2

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Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-1089A) on 2024-06-10.

REVISIONS/ SUBMISSIONS

4 2024-09-18

Issued for submission 2024-07-30 Issued for civil coordination

Issued for OPA/ZBA submission



Halton Sikh Cultural Association MUNICIPALITY Town of Oakville

PROJECT Proposed Place of Worship 2403 Khalsa Gate

MUNICIPAL FILE NUMBER

Tree Protection Plan

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landscape architecture



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4 No construction activity, grade changes, surface treatment, or excavations of any kind

is permitted within the Tree Protection Zone.

Tree Protection Fencing (with silt fence)

NOTES:

- The area within the dripline of all existing trees shall be properly protected with temporary fencing.
- protected with temporary fencing.

 2. The area within the protective fencing shall remain undisturbed with no construction activity, grade changes, surface treatment, compaction, or excavation. Area shall not be used for the storage of building materials or equipment access/storage or project related
- Tree protection measures shall be installed prior to any demolition, tree removal or construction and shall remain until the completion of fine grading and sodding or seeding.
- fine grading and sodding or seeding.

 4. Prune all trees for dead, diseased, weak or hazardous branches only. also trim back branches which will interfere with construction, prune for structural restoration where necessary.
- No stockpiles and/or excavated material shall be placed within the tree preservation area.
 No rigging cable shall be wrapped around or installed to trees.
 Where root systems of protected trees are exposed directly adjacent

to or damaged by construction work they are to be root pruned and

- the area back filled with topsoil to prevent root desiccation. An Arborist is required to be on site for any injury or cutting to the root system or surface roots of a protected tree.
 8. Any fine grading within the preservation area is to be done by hand. no heavy equipment is permitted within the preservation zone.
 9. Sediment accumulations to be removed by subdivider/builder when
- Sediment accumulations to be removed by subdivider/builder when sediment deposits reach within 150mm of top of filter fabric barrier.
 A copy of the approved and signed Vegetation Management Plan will be on site for the duration of construction and available upon
- 11. This detail does not represent any particular tree species.

MIGRATORY BIRDS AND NESTS:

- The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 specifically;
 No tree removal or construction activity shall contravene the
- Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to August 31.
 If work must occur during the migratory bird breeding season, a nest survey should be taken by a qualified avian biologist.
 A mitigation plan (showing active nests and appropriate buffers) may be required for review and approval by the Canadian Wildlife Services.

TREE REMOVAL:

- No trees shall be removed prior to municipal approvals of the Tree Management/Tree Preservation Plan.
- BOUNDARY TREES:

 2. Note that boundary trees are p
- 2. Note that boundary trees are protected under the Ontario Forestry Act. Boundary trees are defined in the Forestry Act (Section 10.2) and are considered shared or co-owned property. The Forestry Act indicates that it is a prosecutable offense for one co-owner to injure or cut down a boundary tree without the other co-owner's permission.
- 3. Written permission from the neighbouring property owner is required prior to removal or injury of any boundary tree(shared ownership) or any tree that is not fully on the subject property.
 4. An ISA certified Arborist should be on site prior to any work being performed within the rectangle of a boundary or neighbouring tree.
- 4. An ISA certified Arborist should be on site prior to any work being performed within the rootzone of a boundary or neighbouring tree to perform root pruning as required.

EXISTING VEGETATION IDENTIFICATION TABLE

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	CC	mTPZ	Comments	Recom.	Reason
1	Trembling Aspen	Populus tremuloides	16	PF	Р	Р	2	1	2.4	Stem wound, 80% crown dieback	REMOVE	Direct conflict with proposed entry walkway
2	Norway Maple	Acer platanoides	31, 43	FG	G	G	5	I	3.6	Union at 1 m	SAVE	
3	Silver Maple	Acer saccharinum	49	G	G	FG	6	D	3.0	Epicormic branching, flower gall	SAVE	
4	Northern Catalpa	Catalpa speciosa	41	G	G	G	4	I	3.0	Union at 2 m	REMOVE	Direct coefficient with proposed cotton well area.
	·											Direct conflict with proposed entry walkway
5	Norway Maple	Acer platanoides	14	G	G	G	3	I	2.4		REMOVE	Direct conflict with proposed entry walkway
6	Silver Maple	Acer saccharinum	50	G	G	G	8	D	3.0		REMOVE	Direct conflict with proposed parking
7	Nonway Maple	Acer platanoides	52	FG		_	E	D	2.4	Crowth deficit	DEMOVE	
/	Norway Maple	Acer platationaes	52	FG	G	G	5	D	3.6	Growth deficit	REMOVE	Direct conflict with proposed parking
8	Crab Apple species	Malus spp.	27	FG	G	G	4	I	2.4	Pruning wounds, epicormic branching	REMOVE	Direct conflict with proposed parking
9	Blue Spruce	Picea pungens	30	G	G	G	2.5	CD	2.4		REMOVE	
,							2.0					Direct conflict with proposed parking
10	Weeping Willow	Salix babylonica	63, 57, 83	F	PF	PF	8	D	6.0	30% crown dieback	REMOVE	Direct conflict with proposed parking
11	Silver Maple	Acer saccharinum	37	G	F	F	4	D	2.4	Union at 2 m, 20% crown dieback	SAVE	
12	Green Ash	Fraxinus pennsylvanica	2, 2	F	G	G	0.5	D	1.8	Union at ground	REMOVE	encroachment due to proposed sidewalk
												process and proposed size was
13	Siberian Elm	Ulmus pumila	4	G	G	G	1	D	1.8		REMOVE	conflict with proposed grading in boulevard, invasive species
14	Manitoba Maple	Acer negundo	3, 2, 3	F	FG	G	1	D	1.8	Union at ground	REMOVE	conflict with proposed grading in boulevard, invasive species
15	Crab Apple species	Malus spp.	5	G	G	G	1	D	1.8		SAVE	
				_								
16	Siberian Elm	Ulmus pumila	3	G	G	G		ı	1.8		REMOVE	conflict with proposed grading in boulevard, invasive species
1-7	OU		0.00	_			0.5		0.4	Harton of a control		
17	Siberian Elm	Ulmus pumila	8, 9, 9	F	FG	G	2.5	D	2.4	Union at ground	REMOVE	conflict with proposed grading in boulevard, invasive species
10	Cile avi que Flue	Ulmus pumila	,				1 5		1.0		DEMOVE	conflict with proposed grading in boulevard, invasive
18	Siberian Elm	Ulmus pumila	6	G	G	G	1.5	I	1.8		REMOVE	species
19	Silver Maple	Acer saccharinum	17, 15, 13, 14,	F	F	F	4	D	3.0	Union at ground, 20% crown dieback	REMOVE	Direct coefficient with proposed builties to cherint
	·		20, 11							90% crown dieback, stem wound, tree was		Direct conflict with proposed builing footprint
20	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	7	Р	Р	Р	0.5	D	1.8	never planted - appears to have just been	REMOVE	Tree unlikely to survive construction impacts due to poor
										placed on the ground		condition
21	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	Р	Р	Р	0.5	D	1.8	90% crown dieback, set on ground not really planted	REMOVE	Tree unlikely to survive construction impacts due to poor
										· ·		condition
22	Red Maple	Acer rubrum	4, 3, 5	F	FG	FG	1.5	D	1.8	Union at ground, interveinal chlorosis, 10% crown dieback	SAVE	
23	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	F	F	F	1	D	1.8	Stem wound, 10% crown dieback	SAVE	
24	Freeman's Maple	Acer x freemanii	7	G	G	G	1.5	D	1.8		SAVE	
25	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	FG	G	G	1	D	1.8	Stem wounds	SAVE	
26	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	7	G	G	G	1	D	1.8		SAVE	
27	Freeman's Maple	Acer x freemanii	1	Р	P	Р	1	D	1.8	Main stem dead, crown comprised of	REMOVE	Tree unlikely to survive construction impacts due to poor
			_							coppice growth thats alive		condition
28	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	7	FG	G	G	1	D	1.8	Stem wounds	SAVE	
29	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	F	G	G	1.5	D	1.8	Stem wounds	SAVE	
ust 30	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	7	G	FG	FG	1.5	D	1.8	10% crown dieback 20% crown dieback, epicormic branching,	SAVE	
31	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	7	F	F	F	1	D	1.8	stem wound	SAVE	
32	Freeman's Maple	Acer x freemanii	6	F	FG	FG	1.5	D	1.8	Stem wound, 10% crown dieback	SAVE	
Unit 33	Eastern White Cedar	Thuja occidentalis	~5	G	G	G	0.5	CD	1.8	23 cedar trees in hedge <10 cm DBH	SAVE	
	Japanese Flouredies 1977	Contract to the Contract to th	,	-			3	1	1.0	Stem wound, coppice growth, 50% crown		
34	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	F	Р	Р		D	1.8	dieback	SAVE	
35	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	G	G	G	1	D	1.8		REMOVE	Direct conflict with proposed walkway
36	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	G	G	G	1	D	1.8		REMOVE	
		, , , , , , , , , , , , , , , , , , , ,							1.0			Direct conflict with proposed walkway
37	Black Locust	Robinia pseudoacacia	5, 3	F	FG	G	2	D	1.8	Union at ground	REMOVE	Direct conflict with proposed walkway
38	Red Maple	Acer rubrum	4, 4, 3	F	FG	G	1	D	1.8	Union at ground	REMOVE	Direct conflict with proposed walkway
30	Red Manle	Accepta	42.2	F	F.C.	FC	1	_	1.0	Union at ground 10% grown dishaply	DELIOVE	
39	Red Maple	Acer rubrum	4,3, 3	F	FG	FG		D	1.8	Union at ground,10% crown dieback	REMOVE	Direct conflict with proposed walkway
40	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	G	G	G	1	D	1.8		REMOVE	Direct conflict with proposed walkway
41	Japanese Flowering Lilac	Syringa reticulata 'Ivory Silk'	6	FG	FG	FG	1	D	1.8	Stem wound, 10% crown dieback	REMOVE	Direct conflict with proposed walls
		,										Direct conflict with proposed walkway
42	Freeman's Maple	Acer x freemanii	6	G	G	G	1.5	D	1.8		REMOVE	Direct conflict with proposed walkway
43	Freeman's Maple	Acer x freemanii	6	G	G	G	1	D	1.8		REMOVE	Direct conflict with proposed walkway
44	Red Maple	Acer rubrum	4, 3, 4	FG	F	F	1	D	1.8	Union at ground, 20% crown dieback	SAVE	
45	Silver Maple	Acer saccharinum	55	G	G	G	7	D	3.6	Flower gall	SAVE	
46	Pin Oak	Quercus palustris	29	G	FG	FG	4	D	2.4	Chlorotic, 10% crown dieback	SAVE	
						•				· · · · · · · · · · · · · · · · · · ·		

CHART LEGEND/CODES

DBH: Diameter at Breast Height (cm)

Trunk Integrity (TI): G = Good, F = Fair, P = Poor

Crown Structure (CS): G = Good, F = Fair, P = Poor

Crown Vigor (CV): G = Good, F = Fair, P = Poor

Crown Class: D = Dominant, CD = Codominant, I = Intermediate, S = Suppressed

* CROWN CLASS

Dominant- (D) Emergent canopy (receives full sunlight)

Co-dominant - (C) Not fully emergent (top of canopy receives sunlight)

Intermediate - (I) Sub-canopy tree (receives partial sunlight)

** CONDITION - consideration of trunk integrity, crown structure and crown vigor Good - few or no issues related to trunk integrity, crown structure or crown vigor Fair - minor issues related to trunk integrity, crown structure (form, some dead or damged branches) or crown vigor (20-80% healthy foliage)

Poor - issues with trunk integrity such as cavities or exposed dead wood, poor crown structure (poor form, no clear leader, significant dead or damaged branches) or poor crown vigor (<20% healthy foliage)

CONDITION OF TREES

The decision to remove or retain a tree is subject to the forecasted development impacts, the structural condition of the tree (e.g. cracks, cavities, decay, weak branching, leaning, hazard potential), the biological condition of the tree (e.g. pest or disease concerns, overall health) and the suitability of the tree in its location (e.g. hardiness, soil conditions, salt tolerance, visual obstruction, available

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NOTE:
Vegetation inventory undertaken by Jeremy Jackson,
ISA Certified Arborist (ON-1089A) on 2024-06-10.

REVISIONS/ SUBMISSIONS

DATE DESCRIPTION
1 2024-06-20 Issued for client review
2 2024-06-25 Issued for submission
3 2024-07-30 Issued for civil coordination

4 2024-09-18 Issued for OPA/ZBA submission



Halton Sikh Cultural Association

MUNICIPALITY

Town of Oakville

PROJECT
Proposed Place of Worship
2403 Khalsa Gate

MUNICIPAL FILE NUMBER

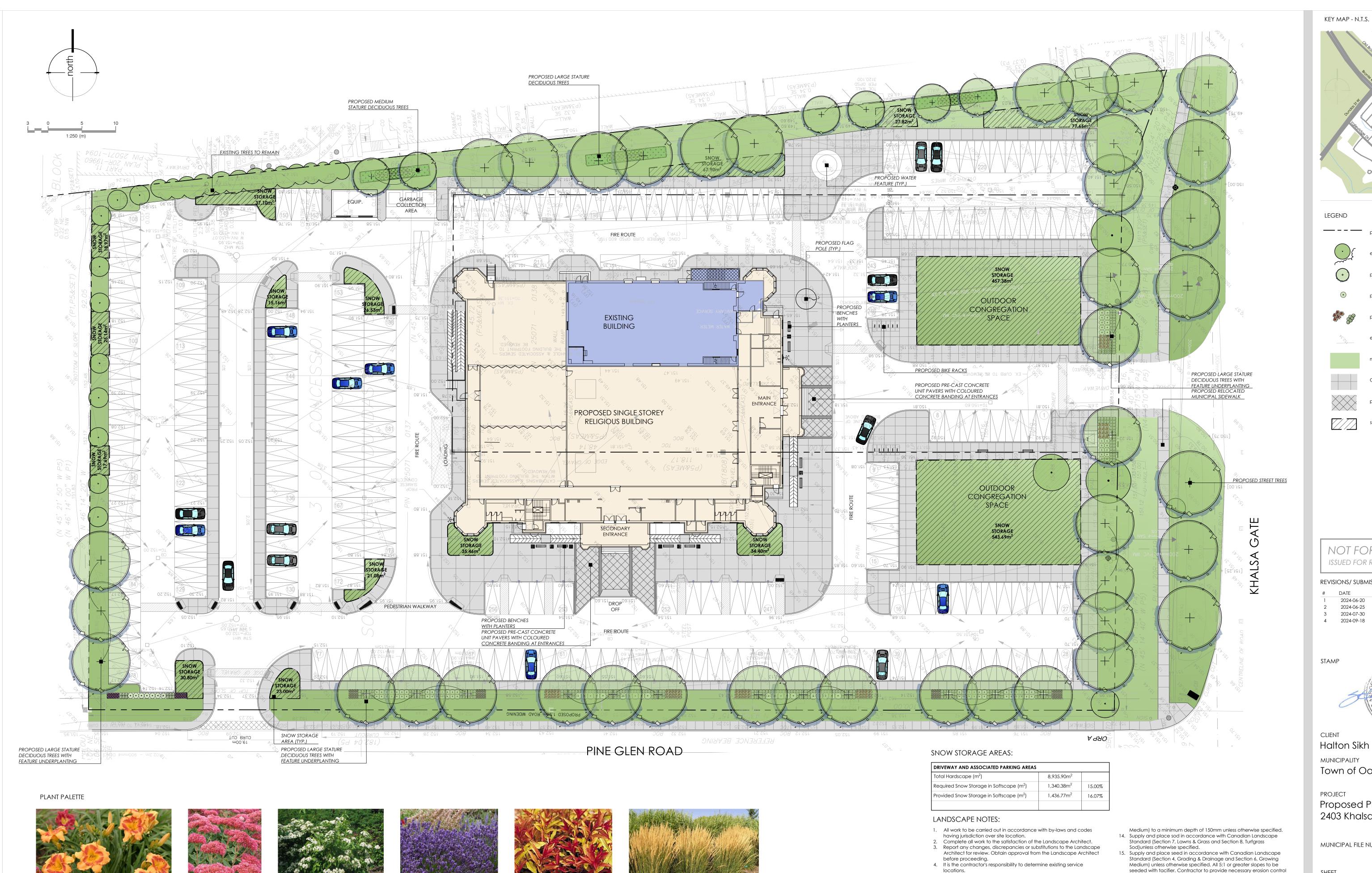
SHEET
Tree Protection Plan

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landscape architecture



LEGEND existing tree to remain proposed deciduous tree proposed shrub proposed perennial

existing elevation

C.I.P. concrete

snow storage area

min. 150mm topsoil, fine grade & sod

precast concrete unit pavers

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REVISIONS/ SUBMISSIONS

DESCRIPTION 2024-06-20 Issued for client review Issued for submission 2024-06-25 Issued for civil coordination

2024-07-30 Issued for OPA/ZBA submission 4 2024-09-18



Halton Sikh Cultural Association MUNICIPALITY Town of Oakville

PROJECT Proposed Place of Worship 2403 Khalsa Gate

MUNICIPAL FILE NUMBER

Landscape Concept

protection as required to ensure soil stabilization and proper seed

drawing and plant list, the drawing shall be considered correct.

on municipal property) from date accepted on all work unless

19. Any site plan or grading and servicing shown is for information only.

Refer to approved drawings.
20. Not for construction unless stamped, signed and dated by

21. Drawings not to be reproduced without written consent from

22. Approval of landscape plan to be obtained from municipality.

24. For grading and servicing information refer to the consulting

23. All plant material to be planted a minimum of 1.0m from any swales

25. For lighting information and power distribution refer to the electrical

18. Contractor to provide minimum one (1) year warranty (including trees

17. If discrepancies arise between plant material count shown on

16. All dimensions in meters unless otherwise noted.

germination.

otherwise specified.

Landscape Architect.

Landscape Architect.

Engineer's drawings.

consultant's drawings.

or ditches.

5. Exact locations of plant material will be determined by placement of

site services such as hydro vaults, meters, utilities roof rain water

6. All plant material locations to be staked or marked out and approved

7. Supply all plant material in accordance with the Canadian Standards

9. Supply and place mulch in accordance with Canadian Landscape

Standard (Section 10, Mulching). Disturbed soil areas around trees and shrubs are to be covered with shredded conifer bark mulch such

as 'Cedar Bark Mulch' by All Treat Farms or 'Classic Cedar Mulch' by

Gro-Bark, or approved equivalent. Alternative mulches must be

12. All support systems must be removed by the contractor at time of

final acceptance. No extras will be paid to complete this work

13. Supply and place topsoil in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing

leaders, driveways, light standards, etc.

approved by the Landscape Architect.

10. Contractor to utilize layout dimensions where provided

accommodate mature size of plant material.

11. Provide planting bed area as noted on the drawing or to

for Nursery Stock (8th ed.).

by Landscape Architect prior to installation.

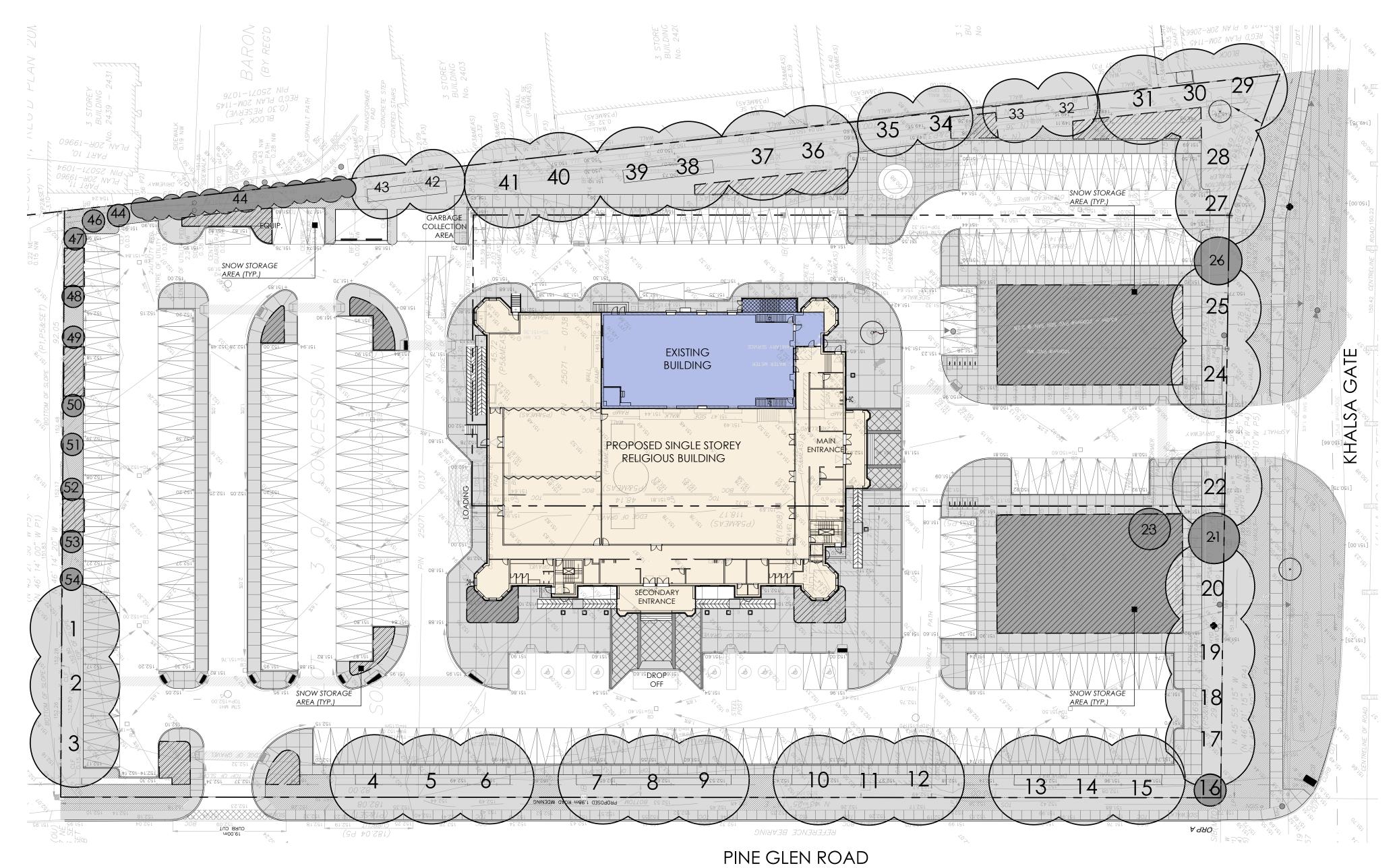
8. Install plant material according to details shown.

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CANODY CALCULATION CHADT

44 Thuja occidentalis

'Ivory Silk' 52 Acer x freemanii

'Ivory Silk'

Total Parking Spaces Provided

Total Number of Trees within 5m of Parking Area

54 Acer rubrum

45-51

53

Acer x freemanii

Syringa reticulata

Syringa reticulata

Tree #	Tree Species	# of Trees	Soil Volume per tree (m3)	Crown Area per tree (m2)	Canopy Arec Subtotal (m2)
		PROPOSED	LARGE STATURE TREE	ES (14m+ SPREAD)	
1-3	Acer rubrum	5	35.1	154.00	385.46
4-6	Acer rubrum	3	33.6	154.00	387.28
7-9	Ulmus x 'Homestead'	2	33.6	154.00	365.33
10-12	Acer rubrum	2	33.6	154.00	365.33
13-15	Ulmus x 'Homestead'	3	35.11	154.00	374.50
17-20	Tilia americana 'Redmond'	4	30.67	154.00	446.62
22	Tilia americana 'Redmond'	1	32.63	154.00	139.45
24-25	Tilia americana 'Redmond'	2	32.00	154.00	265.69
	Ginkgo biloba	3		154.00	579.72
27-31	Tilia americana 'Redmond'	2	48.65	154.00	
	Ginkgo biloba	4		154.00	761.00
36-41	Tilia americana 'Redmond'	2	47.00	154.00	
			Subtota	for Large Canopy Trees (m2):	4070.38
	P	ROPOSED I	MEDIUM STATURE TREE	ES (10-13m SPREAD)	
32-33	Ostrya virginiana	2	41.26	75.50	149.76
34-35	Ostrya virginiana	2	40.37	78.50	149.09
42-43	Ostrya virginiana	2	45.62	75.50	147.49
			Subtotal fo	or Medium Canopy Trees (m2):	446.34
		EXISTIN	G TREES (0.5x Canop	y Area Bonus)	
16	Acer saccharinum	1		19.63	29.45
21	Acer platanoides	1		50.27	75.405
23	Acer saccharinum	1		33.18	49.77
26	Acer saccharinum	1		44.18	66.27

	Subtotal for Existing Trees (m2):	545.785		
	Canopy Summary			
Site Area	18771.78 m2	100%		
Site Canopy Cover	5062.5 m²	27%		
Land use Canopy Cover Target	4787.02 m2	25%		
Parking Area Summary				

REVISIONS/ SUBMISSIONS RIPTION

KEY MAP - N.T.S.

LEGEND

existing tree onsite to remain

proposed tree canopy

snow storage area

tree identification number

min. 150mm topsoil, fine grade & sod

(a.5x credited towards 25% canopy cover)

#	DATE	DESCRIPTION
1	2024-06-20	Issued for client review
2	2024-06-25	Issued for submission
_		

ed for submission 2024-07-30 Issued for civil coordination 4 2024-09-18 Issued for OPA/ZBA submission

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180.57

101.03

14.43

14.43

14.43

120.38

67.53

9.62

9.62

9.62



Halton Sikh Cultural Association MUNICIPALITY Town of Oakville

PROJECT Proposed Place of Worship 2403 Khalsa Gate

MUNICIPAL FILE NUMBER

Canopy Cover Plan



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LANDSCAPE NOTES:

- 1. All work to be carried out in accordance with by-laws and codes
- having jurisdiction over site location. 2. Complete all work to the satisfaction of the Landscape Architect. 3. Report any changes, discrepancies or substitutions to the Landscape Architect for review. Obtain approval from the Landscape Architect
- before proceeding. 4. It is the contractor's responsibility to determine existing service
- 5. Exact locations of plant material will be determined by placement of site services such as hydro vaults, meters, utilities roof rain water leaders, driveways, light standards, etc.
- 6. All plant material locations to be staked or marked out and approved by Landscape Architect prior to installation. 7. Supply all plant material in accordance with the Canadian Standards for Nursery Stock (8th ed.).
- 8. Install plant material according to details shown. 9. Supply and place mulch in accordance with Canadian Landscape Standard (Section 10, Mulching). Disturbed soil areas around trees and shrubs are to be covered with shredded conifer bark mulch such as 'Cedar Bark Mulch' by All Treat Farms or 'Classic Cedar Mulch' by Gro-Bark, or approved equivalent. Alternative mulches must be
- approved by the Landscape Architect. 10. Contractor to utilize layout dimensions where provided
- 11. Provide planting bed area as noted on the drawing or to accommodate mature size of plant material. 12. All support systems must be removed by the contractor at time of
- final acceptance. No extras will be paid to complete this work 13. Supply and place topsoil in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing Medium) to a minimum depth of 150mm unless otherwise specified.

- 14. Supply and place sod in accordance with Canadian Landscape Standard (Section 7, Lawns & Grass and Section 8, Turfgrass
- Sod)unless otherwise specified. 15. Supply and place seed in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing Medium) unless otherwise specified. All 5:1 or greater slopes to be seeded with tacifier. Contractor to provide necessary erosion control protection as required to ensure soil stabilization and proper seed
- 16. All dimensions in meters unless otherwise noted.
- 17. If discrepancies arise between plant material count shown on drawing and plant list, the drawing shall be considered correct.
- 18. Contractor to provide minimum one (1) year warranty (including trees on municipal property) from date accepted on all work unless otherwise specified.

19. Any site plan or grading and servicing shown is for information only.

- Refer to approved drawings. 20. Not for construction unless stamped, signed and dated by
- Landscape Architect. 21. Drawings not to be reproduced without written consent from Landscape Architect.
- 22. Approval of landscape plan to be obtained from municipality. 23. All plant material to be planted a minimum of 1.0m from any swales
- or ditches. 24. For grading and servicing information refer to the consulting Engineer's drawings.
- 25. For lighting information and power distribution refer to the electrical consultant's drawings.