CITY OF MISSISSAUGA PLANTING NOTES:

- 1. All dimensions are in millimeters unless otherwise noted.
- 2. Conduct all planting under the direction and supervision of qualified personnel with a minimum of five (5) years of experience in planting
- 3. Stake out tree and/or planting bed locations before excavation for review by the Community Services Representative. Plan locations may shift according to on-site conditions.
- 4. Warranty all plant material, including seeded/sodded areas, planting accessories and work in this section against defects or non-establishment for a period of two (2) years from date of the Substantial Performance of Work.
- 5. Make trees and other plant material available for inspection at the source of supply upon request from Community Services Representative. Approval of plant material at source will not impair the right of the Community Services Representative to inspect plants upon arrival on the site or during the course of construction and to reject plants which have been damaged, or which, in any way, do not conform to the specifications. Plants that do not comply with the Contract requirements may be rejected at any time.
- 6. Arrange for review of plant material by Community Services Representative upon delivery to site. Review is required for prepared planting pits and/or beds before installation, planting and/or backfilling. Ensure that all plant material conforms to planting plan, detail, and current Canadian Nursery Landscape Association standards. The Community Services Representative reserves the right to reject plant material that does not meet the requirements of this Contract, and to have such works corrected at the Contractor's expense. Collected plants are not permitted.
- 7. Plants must be sound, healthy, vigorous and well-branched. They must be true to type, free of wounds, insect pests' eggs and larvae, and have healthy, well-developed root systems. All plant materials must meet the most current horticultural standards of the Canadian Nursery Landscape Association 'Canadian Nursery Stock Standard' with respect to size, height, spread, grading and quality. Plants must be densely foliated when in
- 8. Measure plants as per 'Canadian Nursery Stock Standard' when the branches are in their normal position. Height and spread dimensions specified refer to the main body of the plant, and neither from the branch tip to the base of the root ball nor from branch tip to branch tip. The height of coniferous trees will be determined midway between the top of the leader and the uppermost whorl to the top of the root ball.
- 9. Propose all substitutions in advance and obtain written approval from the Community Services Representative before proceeding.
- 10. Provide samples of materials for use in work to Community Services for pre-approval.
- i. For guy wires/hose, ties, landscape fabric, geotextiles: submit a 300mm long piece of linear products and a 300mm x 300mm piece for
- ii. Shredded pine bark mulch, soil, compost, and other amendments: provide a one-litre sample, accompanied by details of source location and test reports/results provided by a qualified testing laboratory confirming chemical and physical properties, as well as suitability for
- 11.Planting soil for trees, shrubs, vines, perennials and groundcovers will be equal parts topsoil, sand, and organic matter including compost, all thoroughly combined. Provide compost source location and test reports/results provided by a qualified testing laboratory confirming chemical and physical properties to "Ontario Compost Quality Standards", as well as suitability for use.
- 12.Before delivering topsoil to site, submit test results conducted via a qualified geotechnical testing laboratory to the Community Services Representative for prior review. Test existing site topsoil and imported topsoil that is to be used in the Work in accordance with the Topsoil and Finish Grading Specifications.
- 13. Schedule applications of soil amendments in accordance with the project soil testing analysis and report, and ensure that all conditions for placement are met. Conduct soil amendments and fertilization as recommended by testing report as part of prices bid for the work. Perform all soil amendment applications in the presence of the Community Services Representative.
- 14.Protect plants from damage at all times, including during transit and delivery. Deliver and store all plant material to the site in such a manner as to prevent wilt, broken branches, damage to trunk and bark, or injury to the root system.
- 15.Protect plants from drying out before planting. Replace plants at the Contractor's expense which, in the opinion of the Community Services Representative, have dried out before planting or are exhibiting signs of stress due to improper pre-planting care.
- 16. Fully remove plant container/wrap/tags/ties/top one-third (minimum) of burlap and/or wire basket, and maintain soil ball intact. Lightly loosen
- bound roots without causing damage.
- 17. Soak the planting area with potable water immediately after installation. Apply sufficient water to each plant to thoroughly soak the root zone. Rectify soil settlement before mulching and as it occurs during the warranty period.
- 18.Keep all plants watered from the time of planting through Substantial Performance and warranty maintenance period, to final acceptance at end of warranty period.
- 19.Ensure that no planting pit excavation is left open unattended/overnight/over weekends or holidays. Suspend planting operations if the installation of plant material cannot be completed at the same time of planting pit excavations. Fill unplanted holes before leaving site unattended.
- 20. Prune as required as per ISA pruning standard including the removal of dead or broken branches. Pruning wounds must show vigorous bark on all edges, and all parts must be moist and show live, green cambium tissue when cut. Use clean sharp tools and make cuts flush with main branch, smooth and sloping as to prevent accumulation of water.
- 21.At the completion of planting operations, remove all fertilizer bags, burlap, wrap, ties and tags, pots, twine and any other such material from
- 22.Undertake winter protection of planted conifers at the Contractor's discretion. Replace winter- desiccated or burned conifers. The City will not pay additional fees for winter protection.
- 23.Replace dead, dying, unhealthy, and other poorly-performing plants, including those that are affected by disease, weather damage, insects, fungal organisms or display unsatisfactory growing characteristics.
- 24.Prune all minor damage and deadwood, address soil settlement, top up mulch to 75mm settled depth, re-cut and tidy planting bed edges, and remove weeds.
- 25. Trees with concentrated areas of dieback will be reviewed and individually identified for replacement. Conduct warranty replacements immediately upon identification during the warranty maintenance period.
- 26.Remove and dispose off-site wood stakes, guy wires and protective hose at the end of the warranty period, or as directed by the Community Services Representative. When direction is given by the Community Services Representative to remove the tree staking and guy wires before the end of the warranty period, perform all removals within two weeks of such notice and remove and dispose of all materials off site at a location arranged and paid for by the Contractor.
- 27.Do not allow mould in softwood mulch to be present on site. Remove and replace any affected mulch.
- 28. The Contractor has a duty to reinstate all surfaces used to access the site to their original condition. Repair all existing and newly created (through this work) ruts, depressions and uneven areas and grade so as not to retain water, including settlement adjacent catch basins. Resod, or topdress and seed, any sodded areas which have been rutted, damaged or disturbed before demobilizing. The method of repair will be to the discretion of Community Services Representative to ensure that the site is restored to no less than original condition. Hand-tamp and/or roll all repaired areas, and maintain and water until establishment and Substantial Performance. Supply and install a minimum depth of 100mm screened topsoil and Canada No. 1 sod. Seed areas that are less than 1 m² or as designated. Apply seed within the top 6mm of prepared soil, ensuring contact between the seed and soil.
- 29.Unless a specialty seed mix is specified for use on the drawings, the following mix applies: by Ontario Seed Company or equivalent: 55% creeping red fescue + 27% Canada bluegrass + 18% perennial ryegrass = 100% total; apply at 40kg/ha.

SEEDING NOTES:

- 1. All areas that have been disturbed by construction shall be seeded by the contractor unless otherwise noted. Remove all debris including all granular stone, wood and metal. Scarify all disturbed areas to eliminate compaction of topsoil. To prepare areas for seeding, spread, loosen and fine grade
- 2. Seeding operations shall be completed between spring thaw and June 15th for spring work, or between August 15th and October 15th for fall work.
- 3. Ensure adequate moisture is available for initial seeding application and maintain seed by watering during germination and establishment.
- Install seed over min. 150mm depth of topsoil.

CITY OF MISSSISSAUGA LAWN SEED MIX

27 Poa compressa

Festuca rubra

Botanical Name

- 5. Contractor to ensure adequate seed mix catch. Seeded areas will be accepted provided that a sufficient amount of the seed has germinated and become established in the opinion of the Landscape Architect.
- 6. Maintenance for seeded areas shall begin immediately after installation and shall continue until acceptance by the Contract Administrator.

		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	18	Lolium perenne	Perennial Rye Grass	1000m2 at the time of seeding.
IATUR/	ALIZED A	AREA SEED MIX (CVC 7 UPLAND MIX)		
	Qty %	Botanical Name	Common Name	Planting Density
	1	Anemone canadensis	Canada Anemone	
	2	Asclepias syriaca	Common Milkweed	
	15	Carex granularis	Meadow/Open Field Sedge	
	1	Clematis virginiana	Virgins Bower	Sow a Nurse Crop: Annual Oats (Avena sativa) and
	40	Elymus riparius	Riverbank Wild Rye	Buckwheat (Fagopyrum esculentum) to be seeded at a rate
	1	Euthamia graminifolia	Grass Leaved Goldenrod	of 22kg/hectare
	1	Monarda fistulosa	Wild Bergamot	Sow CVC 7 Upland Seed Mix at a Rate of Application: 22-25
	25	Oenethera biennis	Evening Primrose	kg./hectare. Apply an organic 8-32-16 ratio fertilizer at a rate
	10	Rudbeckia hirta	Black-Eyed Susan	of 38 kg per 1000m2 at the time of seeding.
	2	Solidago canadensis	Canada Goldenrod	
	1	Symphyotrichum cordifolius	Blue Wood Aster	7

Common Name

reeping Red Fescue

Planting Density

Sow Lawn Seed Mix at a Rate of Application: 40 kg./hectare. Apply an organic 8-32-16 ratio fertilizer at a rate of 38 kg per

SODDING NOTES:

1. Sodded areas as shown on the Planting Plan is to be certified Canada No. 1 Cultivated turf Sod, with strong Fibrous root system, thick and heavy growth

conforming to specifications of the Nursery Sod Growers Association of Ontario and of the following mix or approved equal:

New England Aster

40% Blend of (3) Varieties of Kentucky Bluegrass

1 Symphyotrichum novae-angliae

- 40% Creeping Red Fescue 20% Perennial Ryegrass
- Use latest approved cultivars of grass in Ontario

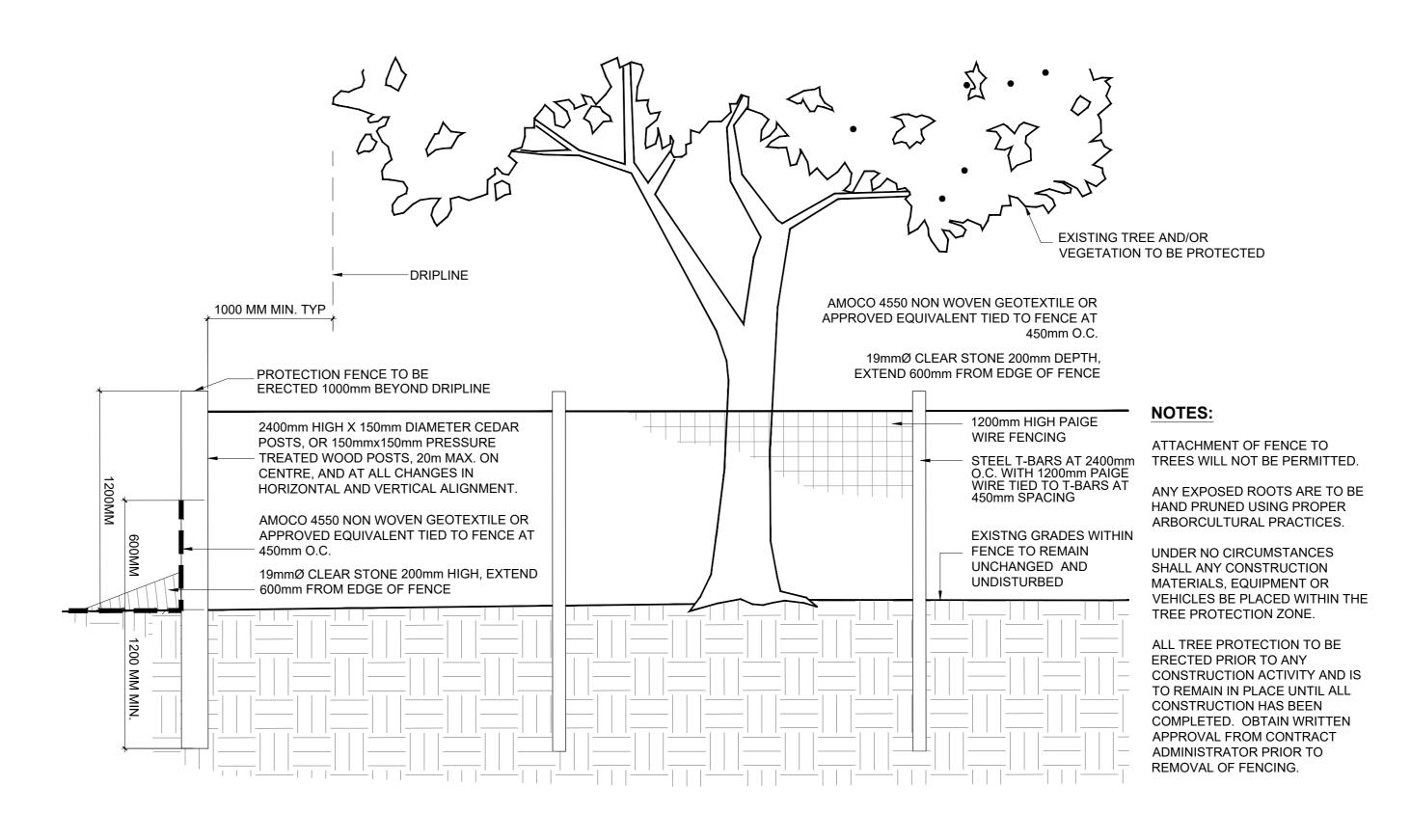
Areas to be sodded shall have a minimum 100mm topsoil base.

- 2. Loosen soil surface prior to sodding. Eliminate bumps and hollows. Roll lightly wherever topsoil is excessively loose.
- 3. Prior to sodding, obtain approval that finished grade and depth of topsoil are satisfactory.
- 4. Deliver sod to site within 24 hours of being lifted and lay within 36 hours of being lifted. During dry weather protect sod from drying, and water sod as
- necessary to ensure its vitality and prevent the loss of soil in handling. Dry sod will be rejected.
- 5. Lay sod during growing season. Lay sod in rows, perpendicular to slope, and with joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with sharp implements.
- 6. Water sod immediately after laying to obtain moisture penetration into top 150mm of topsoil. Maintain sodded areas from start of installation until final

MINIMUM PLANTING SOIL DEPTHS:

- 1. Topsoil Depth for Trees to be 0.9m deep.
- 2. Topsoil Depth for Shrubs to be 0.45m deep.
- 3. Topsoil Depth for Ornamental Grasses and Perennials to be 0.3m deep.

SYM	Qty Botanical Name	Common Name	CAL (mm)	HT (cm)	Root	Remarks	Potential Mature Size
ECIDUOU	S TREES:	•	•				
AFJ	Acer freemannii 'Jeffersred'	Autumn Blaze Maple	70		W.B.		Height: 16m~Spread: 13m
AR	Acer rubrum	Red Maple	70		W.B.		Height: 15m~Spread: 12m
AR	Acer rubrum	Clump Red Maple	70		W.B.	Multi-Stem	Height: 15m~Spread: 12m
ASA	Acer saccharum	Sugar Maple	70		W.B.		Height: 30m~Spread: 15m
ASM	Acer saccharinum	Silver Maple	70		W.B.		Height: 18m~Spread: 18m
AML	Amelanchier laevis	Alleghany Serviceberry	70		W.B.	Multi-Stem	Height: 5m~Spread: 5m
CE	Celtis occidentalis	Common Hackberry	70		W.B.		Height: 18m~Spread: 18m
GTH	Gleditsia triacanthos var. inermis 'Shademaster'	Shademaster Honeylocust	70		W.B.		Height: 20m~Spread: 12m
PCA	Pyrus calleryana 'Chanticleer'	Chanticleer Pear	70		W.B.		Height: 13m~Spread: 5m
QMA	Quercus macrocarpa	Burr Oak	70		W.B.		Height: 22m~Spread: 18m
QRU	Quercus rubra	Red Oak	70		W.B.		Height: 22m~Spread: 20m
SGR	Syringa reticulata	Japanese Tree Lilac	70		W.B.		Height: 7.5m~Spread: 5m
TCG	Tilia cordata 'Greenspire'	Greenspire Linden	70		W.B.		Height: 16m~Spread: 8m
	US TREES:						
PA	Picea abies	Norway Spruce		1800	W.B.		Height: 20m~Spread: 25m
PG	Picea glauca	White Spruce		1800	W.B.		Height: 25m~Spread: 6m
PP	Picea pungens	Colorado Spruce		1800	W.B.		Height: 15m~Spread: 5m
PST	Pinus strobus	Eastern White Pine		1800	W.B.		Height: 20m~Spread: 7m
TOS	Thuja occidentalis	Eastern White Cedar		1800	W.B.		Height: 10m~Spread: 3m
•	APPROX. 40% OF PLANTING BEDS)						
cos	Cornus sericea	Red Osier Dogwood		600	3 Gal.	1-1.5m O.C.	Height: 1.75m~Spread: 2r
COS	Cornus sericea 'Flaviramea'	Yellowtwig Dogwood		600	3 Gal.	1-1.5m O.C.	Height: 1.75m~Spread: 2n
COA	Cotoneaster acutifolius	Peking Cotoneaster		600	3 Gal.	1-1.5m O.C.	Height: 1.75m~Spread: 2n
EAC	Euonymus alatus `Compacta'	Dwarf Burningbush		600	3 Gal.	1-1.5m O.C.	Height: 2m~Spread: 3m
EFC	Euonymous fortunei 'Coloratus'	Purpleleaf Wintercreeper		300	3 Gal.	1-1.5m O.C.	Height: 0.4m~Spread: 1.5
HAA	Hydrangea arborescens 'Annabelle'	Annabelle Hydrangea		600	3 Gal.	1-1.5m O.C.	Height: 1.25m~Spread: 1.25
JAC	Juniperus horizontalis 'Andora Compacta'	Juniper Compact Andorra		300	3 Gal.	1-1.5m O.C.	Height: 0.4m~Spread: 1.5r
JSA	Juniperus sabina 'Arcadia'	Savin Juniper		300	3 Gal.	1-1.5m O.C.	Height: 0.3m~Spread: 1.2r
RAG	Rhus aromatica `Gro-Low'	Gro-Low Fragrant Sumac		600	3 Gal.	1-1.5m O.C.	Height: 0.8m~Spread: 1.75
RB	Rosa blanda	Smooth Wild Rose		600	3 Gal.	1-1.5m O.C.	Height: 1.25m~Spread: 1.25
SA	Spiraea alba	Meadowsweet		600	3 Gal.	1-1.5m O.C.	Height: 1.25m~Spread: 1.25
SPA	Spiraea japonica `Anthony Waterer'	Anthony Waterer Spirea		600	3 Gal.	1-1.5m O.C.	Height: 0.8m~Spread: 0.6r
SJG	Spiraea japonica `Goldflame'	Goldflame Spirea		600	3 Gal.	1-1.5m O.C.	Height: 1m~Spread: 1.2m
SPC	Spiraea japonica `Coccinea'	Dwarf Red Flowering Spirea		600	3 Gal.	1-1.5m O.C.	Height: 0.5m~Spread: 0.6r
SPM	Syringa patula "Miss Kim"	Miss Kim Lilac		600	3 Gal.	1-1.5m O.C.	Height: 1.25m~Spread: 1n
	cymiga paraile miss rain						Transfer Transfer
ERENNIAI	LS: (APPROX. 35% OF PLANTING BEDS)		1				
ALL	Allium x 'Millenium'	Ornamental Onion			1 Gal.	450mm O.C.	Height: 0.4m~Spread: 0.3r
EPA	Echinacea pallida	Pale Coneflower			1 Gal.	450mm O.C.	Height: 0.9m~Spread: 0.5r
HED	Hemerocallis `Stella D'Oro'	Stella D'Oro Daylily			1 Gal.	450mm O.C.	Height: 0.3m~Spread: 0.3r
HEP	Hemerocallis 'Purple De Oro'	Purple De Oro Daylily			1 Gal.	450mm O.C.	Height: 0.3m~Spread: 0.3r
HIN	Hosta 'Invincible'	Invincible Hosta			1 Gal.	450mm O.C.	Height: 0.5m~Spread: 1m
HMD	Hosta 'Mississippi Delta'	Mississippi Delta Hosta			1 Gal.	450mm O.C.	Height: 0.6m~Spread: 1m
LIP	Liatris spicata	Blazing Star			1 Gal.	450mm O.C.	Height: 0.7m~Spread: 0.5r
MBR	Monarda bradburiana	Eastern Bee Balm			1 Gal.	450mm O.C.	Height: 0.8m~Spread: 0.5r
PAT	Perovskia atriplicifolia 'Lisslitt'	Lacey Blue Russian Sage			1 Gal.	450mm O.C.	Height: 0.45m~Spread: 0.6
RUH	Rudbeckia hirta	Black-Eyed Susan			1 Gal.	450mm O.C.	Height: 0.8m~Spread: 0.8i
SPE	Sedum 'Purple Emperor'	Purple Emperor Sedum			1 Gal.	450mm O.C.	Height: 0.4m~Spread: 0.6
VIC	Veronica incana	Silver Speedwell			1 Gal.	450mm O.C.	Height: 0.6m~Spread: 0.6r
	TAL GRASSES: (APPROX. 25% OF PLANTING BEDS)						
ANV	Andropogon virginicus	Broom Sedge			1 Gal.	600mm O.C.	Height: 1.2m~Spread: 0.6r
BCU	Bouteloua curtipendula	Side Oats Grama Grass			1 Gal.	600mm O.C.	Height: 0.5m~Spread: 0.6r
CAA	Calamagrostis acutiflora 'Avalanche'	Varigated Feather Reed Grass			1 Gal.	600mm O.C.	Height: 1.2m~Spread: 0.6r
CAK	Calamagrostis acutiflora`Karl Foerster'	Feather Reed Grass			1 Gal.	600mm O.C.	Height: 1.0m~Spread: 0.6r
CLA	Chasmanthium latifolium	North Sea Oats			1 Gal.	600mm O.C.	Height: 0.8m~Spread: 0.5i
DEC	Deschampsia caepitosa	Tufted Hair Grass			1 Gal.	600mm O.C.	Height: 0.6m~Spread: 0.6i
	Panicum virgatum 'Rotstrahlbusch	Red Ray Switch Grass			1 Gal.	600mm O.C.	Height: 1.2m~Spread: 0.9i
PVR	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass			1 Gal.	600mm O.C.	Height: 1.25m~Spread: 0.9
PVR PVS	Famcum virgatum Shehandoan		1				
PVS PAC	Pennisetum caudatum	White Flowering Fountain Grass			1 Gal.	600mm O.C.	Height: 1.2m~Spread: 0.9r
PVS					1 Gal. 1 Gal.	600mm O.C. 600mm O.C.	Height: 1.2m~Spread: 0.9 Height: 0.6m~Spread: 0.6



1 TREE PRESERVATION AND PROTECTION DETAIL SCALE NTS



Stantec Consulting Ltd. 100-401 Wellington Street West Toronto, M5V 1E7

Tel: (416) 596-6686 • www.stantec.com Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

_____ _____ _____ 1 SITE PLAN CONTROL APPLICATION (SPA) EA JV 2021.12.06 Issued/Revision File Name: THP_M-LANDSCAPE DETAILS EA JV JV 2021-09-22



TRILLIUM HEALTH PARTNERS NEW MISSISSAUGA HOSPITAL TOWER PAM 21-323 W7

100 QUEENSWAY WEST & 2250 HURONTARIO ST MISSISSAUGA ON

LANDSCAPE DETAILS

140020019

Revision O

ORIGINAL SHEET - ISO AO

Scale