Tree Management Notes - Waterloo

1. ALL TREE PROTECTION WITHIN THIS PROJECT IS DIRECTED BY THE STANDARD SPECIFICATION FOR CONSTRUCTION NEAR TREES APPENDIX 6, UNAUTHORIZED TREE DAMAGE (SPECIAL PROVISIONS IN TENDER) AND ANY ADDITIONAL MEASURES STATED ON THIS PLAN.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THEY ARE AWARE OF ALL MEASURES BEING TAKEN TO PROTECT ALL TREES WITHIN PROJECT LIMITS.

3. BEFORE THE START OF ANY WORK, THE CONTRACTOR, SITE INSPECTOR AND LANDSCAPE ARCHITECT WILL MEET ON SITE WITH THE COMMUNITY SERVICES REPRESENTATIVE TO REVIEW ALL TREE PROTECTION MEASURES REQUIRED TO PROTECT TREES.

4. THE COMMUNITY SERVICES REPRESENTATIVE WILL PROVIDE A LIST OF ALL ACTIVITIES WHICH MUST BE REVIEWED BY COMMUNITY SERVICES PRIOR TO ANY WORK BEING CARRIED OUT AT THE START OF THE PROJECT. ADJUSTMENTS TO THIS LIST WILL BE MADE AS REQUIRED THROUGH THE PROJECT, PRIOR TO ANY WORK BEING DONE THE PROJECT ENGINEER/SITE INSPECTOR AND THE CONTRACTOR MUST SIGN OFF WITH COMMUNITY SERVICES ENSURING THAT ALL REQUIREMENTS CONCERNING TREE PROTECTION ARE UNDERSTOOD AND BEING MEET.

5. EXCEPT UNDER WRITTEN AUTHORITY OF THE CONSULTANT, THE CONTRACTOR WILL NOT ENTER, EXCAVATE OR STORE ANY MATERIALS WITHIN THE TREE PROTECTION ZONES. WHERE CONSTRUCTION ACTIVITIES ARE APPROVED THE CONTRACTOR WILL ADHERE TO THE REQUIREMENTS WITHIN THE STANDARD SPECIFICATION FOR CONSTRUCTION NEAR TREES.

6. ALL WORK AROUND WITHIN THE PROJECT LIMITS, TREES WILL BE REVIEWED AND APPROVED BY THE CONSULTANT IN THE FIELD BEFORE ANY WORK IS CARRIED OUT. UNLESS APPROVED BY THE CONSULTANT, NO CHANGES TO THE AGREED WORK PLAN AROUND TREES WILL OCCUR UNLESS APPROVED BY THE CONSULTANT.

7. ALL TREES TO BE SAVED SHALL BE FULLY PROTECTED WITH PROTECTIVE FENCING INSTALLED AS PER THE LOCATION SHOWN ON THE PLAN AND DETAIL. FENCING LOCATION TO BE APPROVED UPON INSTALLATION BY THE CONSULTANT. TREE PROTECTION SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THIS PROJECT, UNLESS APPROVED.

8. ALL DAMAGE TO TREES WILL BE REPORTED TO THE CONSULTANT IMMEDIATELY BY THE CONTRACTOR'S FOREPERSON.

9. ANY EXISTING TREES NEGATIVELY IMPACTED BY CONSTRUCTION WORKS SHALL BE REPLACED WITH A SPECIES TO THE SATISFACTION OF THE CITY OF WATERLOO AT A MINIMUM 70MM CALIPER SIZE.

10. NO VEGETATION REMOVALS MAY OCCUR FROM THE SITE UNTIL TIME OF FINAL SITE PLAN APPROVAL (INCLUSIVE OF FINAL ENGINEERING ACCEPTANCE).

City Of Waterloo Engineering Co-ordination Note

NOTES:

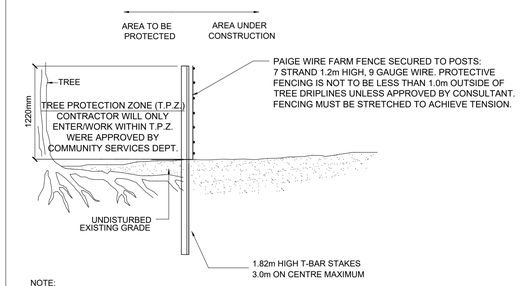
THE PREPARATION OF THE TREE MANAGEMENT PLAN HAS BEEN COORDINATED WITH THE PREPARATION OF THE GRADING CONTROL PLAN AND EROSION & SEDIMENT CONTROL PLAN. THE PLANS HAVE BEEN REVIEWED BY THE LANDSCAPE ARCHITECTURE AND ENGINEERING CONSULTANTS. THE RELEVANT FEATURES OF THESE PLANS ARE IN CONFORMITY WITH EACH OTHER.

NO SERVICING, GRADING OR OTHER CONSTRUCTION ACTIVITY IS TO BEGIN UNTIL THE INSTALLATION OF THE TREE PROTECTION FENCING AND ANY OTHER PROTECTION MEASURES HAVE BEEN CERTIFIED BY THE LANDSCAPE ARCHITECT. ALL TEMPORARY PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL FINISH LANDSCAPING. PROTECTION FENCING SHALL NOT BE ALTERED OR RELOCATED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT.

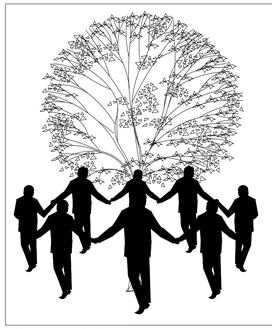
FOR SILT FENCING DETAILS REFER TO EROSION AND SEDIMENT CONTROL PLAN BY MERITECH ENGINEERING, 1315 BISHOP ST. N., SUITE 202, CAMBRIDGE, ON, TELEPHONE: 519-623-1140.
FOR SERVICING AND GRADING INFORMATION, REFER TO CONCURRENT SUBMISSION BY MERITECH ENGINEERING.

TREE PROTECTION ZONE	
TRUNK DIAMETER (DBH)	MINIMUM PROTECTION DISTANCES REQUIRED
<10cm	1.8m
11 - 40cm	2.4m
41 - 50cm	3.0m
51 - 60cm	3.6m
61 - 70cm	4.2m
71 - 80cm	4.8m
81 - 90cm	5.4m
91 - 100+ cm	6.0m

DETAIL: PROTECTIVE FENCING TO BE APPLIED TO ALL CITY OF WATERLOO TREES



NOTE:
FENCE TO BE INSPECTED ON A REGULAR BASIS AND MAINTAINED BY CONTRACTOR IN PROPER CONDITION UNTIL LOT IS SODDED.



Tree Preservation Plan In Effect

NO DUMPING
STORAGE OF MATERIALS
TREE REMOVAL
DISTURBANCE OF ANY KIND
BEYOND THIS POINT

Developers Name | Developers Telephone Number
Consultants Name | Consultants Telephone Number
City Contact:

MOUNTED ON GATOR BOARD MINIMUM SIZE 11" X 17"

SIGN TO BE PLACE 45M O.C. ALONG FENCE SECURED WITH OUTDOOR PLASTIC LOCKING TIE-WRAPS

Legend

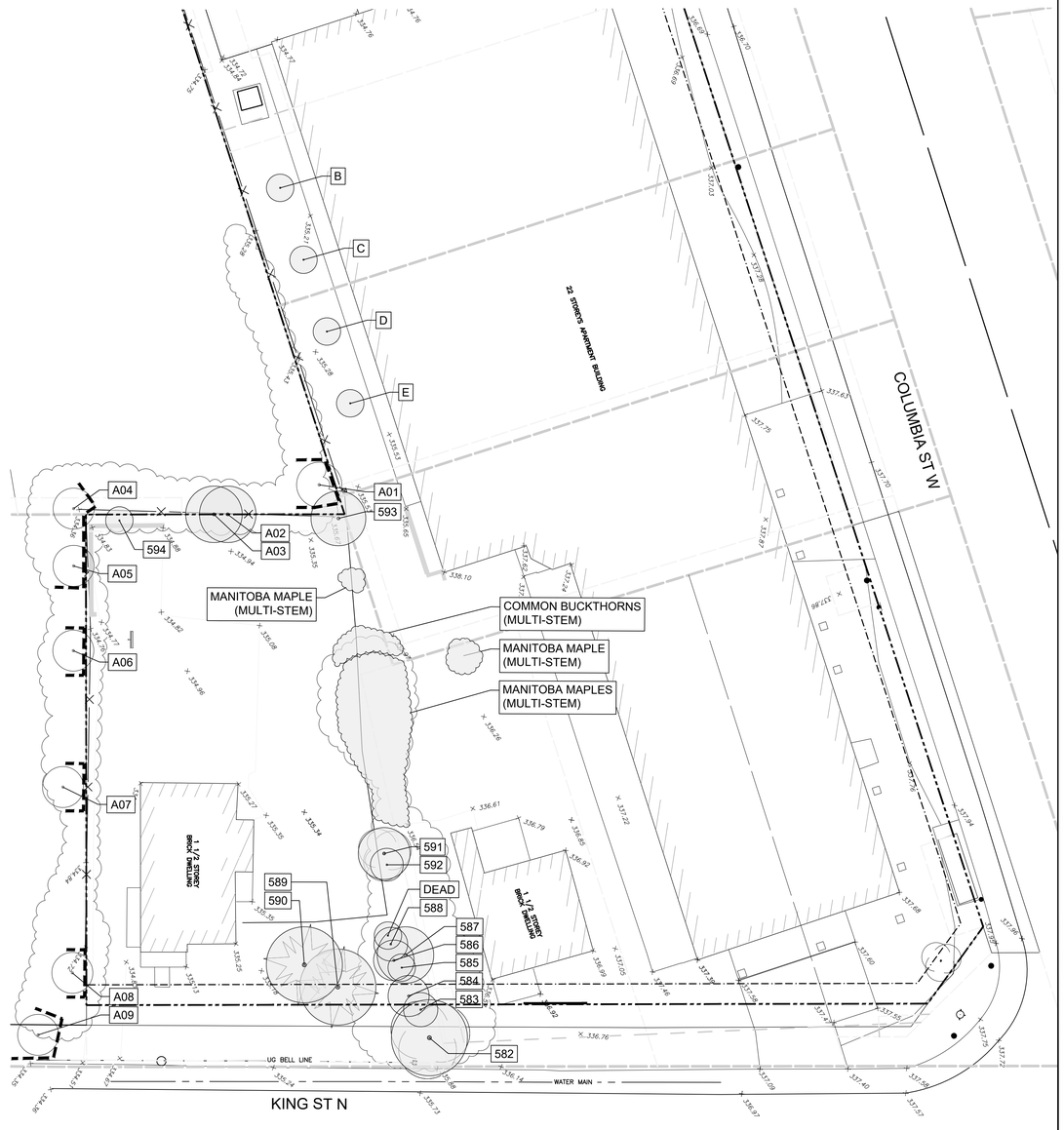
Health and Structural Condition	Recommended Action	
E - Excellent	P	Protect, monitor and remain.
G - No defects, well-developed crown	R	Remove
F - Minor defects or symptoms of disease	Rc	Remove due to construction
P - Major defects or symptoms of disease	*	Remove with municipal approval
Dead	**	Remove with neighbours approval
	T	Transplant

Tree Inventory Chart

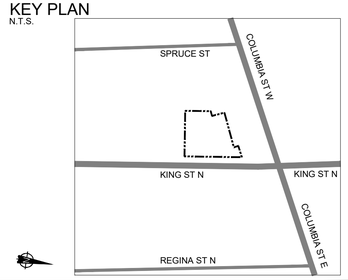
Species of significant size 10cm DBH or greater

Site Date: August 31, 2022 and November 28, 2022
Field Personel: GSP Group- Rita Huang, Emily Sicilia
Tree locations partially based on survey provided
= Tree tagged by GSP

Tree No.	Botanical Name	Common Name	Stems	DBH (cm)	Dripline Radius (m)	Location: Municipal Property	Location: Subject Property	Location: Shared	Location: Adjacent Property (6m to PL)	Health Condition	Structure Condition	Comments	Recommended Action	Reason
582	*Acer negundo*	Manitoba Maple	2	30,50	3		x			P	P	Sprouting, wounded base, dead branches, large limb removed	Rc	Residence building construction
583	*Rhamnus cathartica*	Common Buckthorn	2	10,12	2		x			P	P	Low crotch, dead branches, sprouting, intertwined stems	Rc	Residence building construction
584	*Acer negundo*	Manitoba Maple	1	29	5		x			P	P	sprouting	Rc	Residence building construction
585	*Rhamnus cathartica*	Common Buckthorn	2	10,10	2		x			P	P	Low crotch, dead branches, sprouting, wounded stems, thin canopy	Rc	Residence building construction
586	*Morus alba*	Mulberry	1	20	2.5		x			P	P	Wounded stem (crack), dead branches, very thin canopy	Rc	Residence building construction
587	*Acer platanoides*	Norway Maple	1	23	3		x			F	P	Leaning, branches only grow on 1 side	Rc	Residence building construction
588	*Acer negundo*	Manitoba Maple	1	16	1.5		x			VP	VP	Wounded stem, dead branches, sprouting, thin canopy	Rc	Residence building construction
589	*Pinus nigra*	Austrian Pine	1	32	3		x			P	P	Dead branches, wounded stem, leaning	Rc	Residence building construction
590	*Pinus nigra*	Austrian Pine	1	45	4		x			F-P	F-P	Dead branches, leaning	Rc	Residence building construction
591	*Fraxinus pennsylvanica*	Green Ash	1	31	2.5		x			P	P	Sprouting, growing around concrete paving at base	Rc	Residence building construction
592	*Acer platanoides*	Norway Maple	1	11	1.5		x			P	P	Dead branches, sprouting	Rc	Residence building construction
593	*Acer negundo*	Manitoba Maple	1	24	2.5		x			VP	VP	Wounded base, dead stems/branches, sprouting	Rc	Residence building construction
594	*Thuja occidentalis*	White Cedar	1	11	2		x			F	F	Dead branches, growing around chain-link fence and concrete base	Rc	Residence building construction
A01	*Juglans nigra*	Black Walnut	1	18	2.5				x	F	F		P	
A02	*Fraxinus spp.*	Ash	1	18	3.5			x		P	F	Growing between fences	R	Poor health
A03	*Acer negundo*	Manitoba Maple	2	10, 18	3			x		P	P	Wounded stems, sprouting, growing between fences	R	Poor health
A04	*Acer negundo*	Manitoba Maple	2	12,18	3.5				x	F	F		P	
A05	*Acer negundo*	Manitoba Maple	1	15	3.5				x	F	F		P	
A06	*Acer negundo*	Manitoba Maple	1	15	3				x	F	F		P	
A07	*Acer negundo*	Manitoba Maple	1	18	4				x	F	F		P	
A08	*Acer negundo*	Manitoba Maple	2	18,20	4				x	F	F		P	
A09	*Juglans spp.*	Walnut	1	19	2.5	x				F	F	Wounded stem	P	
B	*Ginkgo Biloba "Magyar"*	Maidenhair Tree	1	7	0.5		x			G	G		Rc	Residence building construction
C	*Ginkgo Biloba "Magyar"*	Maidenhair Tree	1	7	0.5		x			G	G		Rc	Residence building construction
D	*Ginkgo Biloba "Magyar"*	Maidenhair Tree	1	8	0.5		x			G	G		Rc	Residence building construction
E	*Ginkgo Biloba "Magyar"*	Maidenhair Tree	1	7	0.5		x			G	G		Rc	Residence building construction



KEY PLAN
N.T.S.



Legend

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCING
- 23 — TREE IDENTIFICATION NUMBER

GENERAL NOTES:

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4. BASE DRAWING PROVIDED BY STUDIO LIMINA Inc.
5. VEGETATION INVENTORY BY GSP GROUP Inc.
6. LANDSCAPE DRAWINGS SHOW ENGINEERING INFORMATION FOR DESIGN PURPOSES ONLY. DO NOT CONSTRUCT ENGINEERING WORKS FROM THESE DRAWINGS.

VEGETATION MANAGEMENT PLAN

1 Columbia Street West &
351 /355 King Street North, Waterloo, ON

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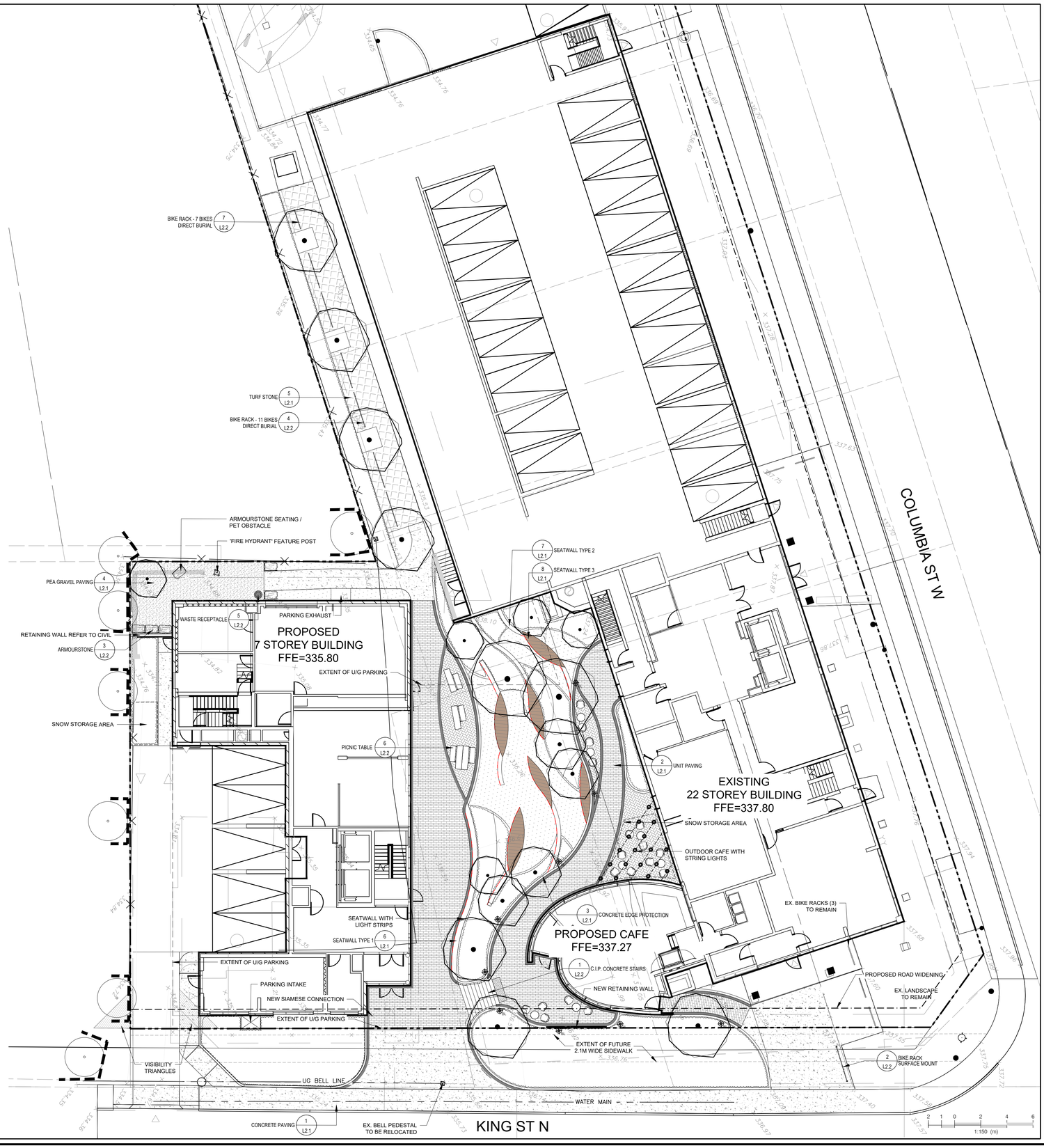
ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — JENNIFER HARDER — OALA — 19.12.2023 — MEMBER

DATE	ISSUE	BY
SEPT 09 / 2022	Issued for Internal Review	RH
SEPT 15 / 2022	Issued for Internal Review	RH
NOV 02 / 2022	Issued for Internal Review	ES
NOV 16 / 2022	Issued for Coordination	RH
DEC 09 / 2022	Issued for SPA	ES
NOV 13 / 2023	Issued for Internal Review	RH
DEC 14 / 2023	Issued for OPA/ZBA	RH

GSP group
201-72 Victoria Street South, Kitchener, Ontario N2G 4Y9, T 519 569 8883, F 519 569 8643
162 Locke Street South, Suite 200, Hamilton, Ontario L8P 4A9, T 905 572 7477
www.gspgroup.ca

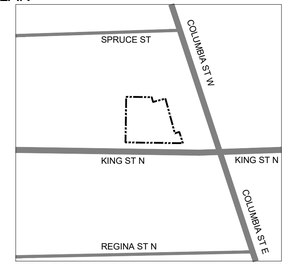
Date: DEC 2023 | Drawn By: RH
Scale: 1:200 | Project No.: 22220

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KEY PLAN

N.T.S.



Legend

- EXISTING TREES
- PROPOSED TREES
- SHRUBS / PERENNIALS / GROUND COVER
- SOD
- CONCRETE PAVING
- UNIT PAVER TYPE 1 (WITH BANDING)
- UNIT PAVER TYPE 2 (WITH BANDING)
- PEA GRAVEL
- TURF STONE
- WOODEN BENCH / SEATING DECK
- BIKE RACK
- STRING LIGHTS (REFER TO LIGHTING CONSULTANT)
- BOLLARD LIGHTS (REFER TO LIGHTING CONSULTANT)
- LIGHT STRIPS (REFER TO LIGHTING CONSULTANT)
- PROPERTY BOUNDARY

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MATERIALS PLAN

1 Columbia Street West &
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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MEMBER — OALA — 14.12.2023

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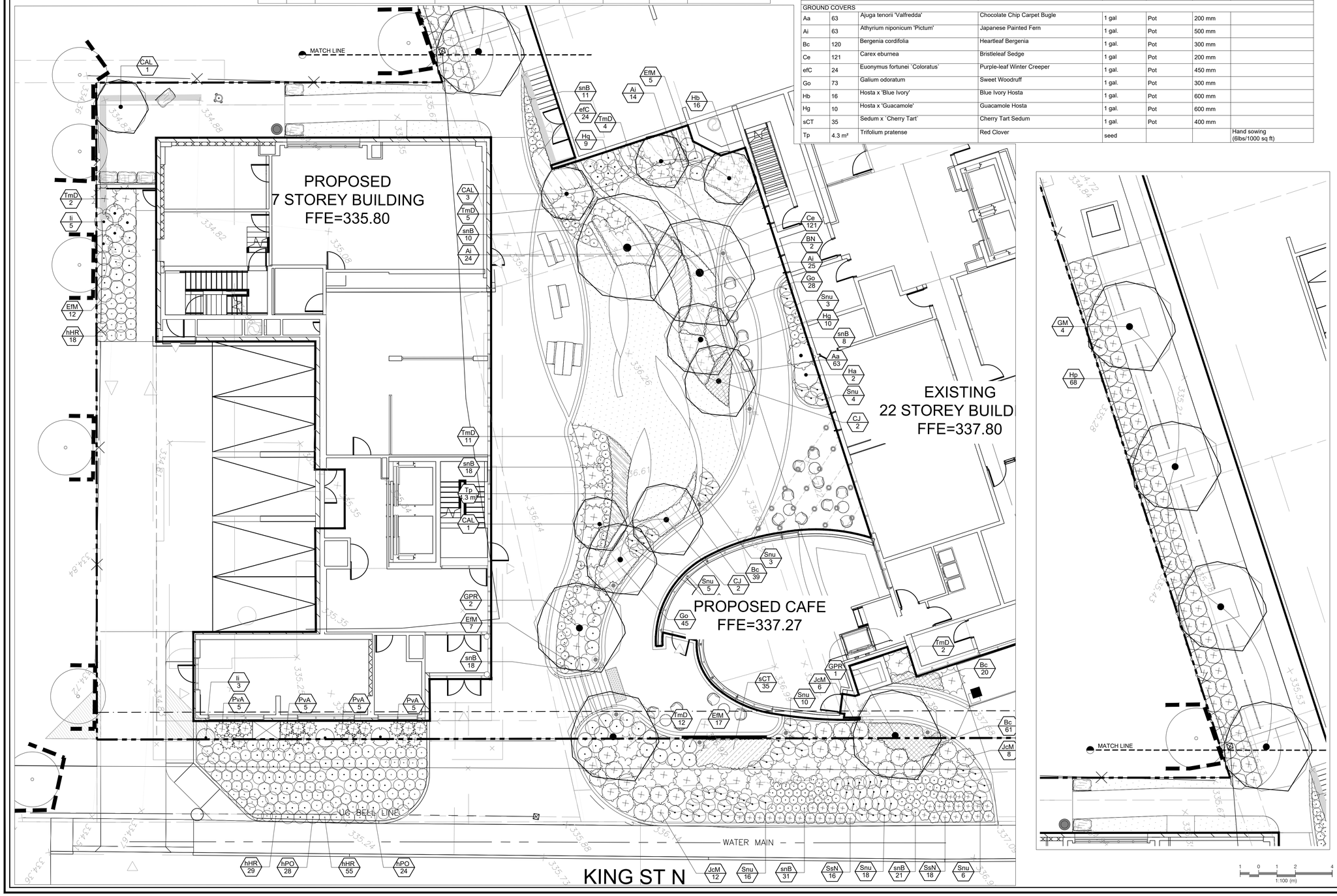
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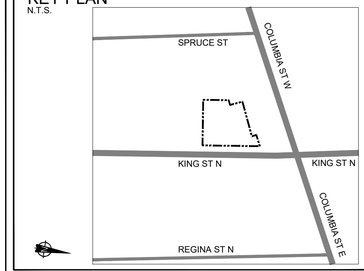
NOTE:
1. Proposed softscape area to be irrigated with high-efficiency irrigation system. TBD.

PLANT SCHEDULE L1.1

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER		REMARKS
DECIDUOUS TREES							
BN	2	Betula nigra	River Birch	70mm Cal.	W.B.		
CJ	4	Cercidiphyllum japonicum 'Hanna's Heart'	Hanna's Heart Katsura Tree	70mm Cal.	W.B.		
CAL	5	Cornus alternifolia	Pagoda Dogwood	150cm Ht.	W.B.		multi-stem
GM	4	Ginkgo biloba 'Magyar'	Magyar Maidenhair Tree	70mm Cal.	W.B.		male
GPR	3	Ginkgo biloba ``Princeton Sentry``	Princeton Sentry Ginkgo	70mm Cal.	W.B.		male
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
BROADLEAF EVERGREENS							
EfM	41	Euonymus fortunei 'Moonshadow' TM	Moonshadow Wintercreeper	3 gal.	Pot	0.8 m	
Ii	8	Ilex glabra 'Compacta'	Compact Inkberry	3 gal.	Pot	1 m	
CONIFEROUS SHRUBS							
JcM	26	Juniperus chinensis ``Mint Julep``	Mint Julep Juniper	60cm	3 gal.	1.4 m	
TmD	36	Taxus x media ``Densiformis``	Dense Yew	60cm, 3 gal.	Pot	1.5 m	
DECIDUOUS SHRUBS							
Hq	9	Hydrangea quercifolia	Oakleaf Hydrangea	3 gal.	Pot	0.75 m	
ORNAMENTAL GRASSES							
Hp	68	Hystrix patula	Bottlebrush Grass	1 gal.	Pot	0.7 m	
PvA	20	Panicum virgatum 'Apache Rose'	Apache Rose Prairie Winds® Switch Grass	---	1 gal.	0.8 m	
Snu	65	Sorghastrum nutans	Indian Grass	1 gal.	Pot	0.75 m	
VINES							
Ha	2	Hydrangea anomala petiolaris	Climbing Hydrangea	5 gal.	Pot	1.5 m	
PERENNIALS							
hHR	102	Hemerocallis hybrid ``Happy Returns``	Happy Returns Day Lily	---	1 gal.	0.6 m	
hPO	52	Hemerocallis x ``Purple D`Oro``	Daylily	1 gal	Pot	0.7 m	
snB	117	Salvia nemorosa ``Blue Queen``	Woodland Sage	1 gal.	Pot	0.45 m	
SsN	34	Sedum spectabile 'Neon'	Neon Stonecrop	1 gal.	Pot	0.6 m	
GROUND COVERS							
Aa	63	Ajuga tenorii 'Valfredda'	Chocolate Chip Carpet Bugle	1 gal	Pot	200 mm	
Ai	63	Athyrium niponicum 'Pictum'	Japanese Painted Fern	1 gal.	Pot	500 mm	
Bc	120	Bergenia cordifolia	Heartleaf Bergenia	1 gal.	Pot	300 mm	
Ce	121	Carex eburnea	Bristleleaf Sedge	1 gal	Pot	200 mm	
efC	24	Euonymus fortunei ``Coloratus``	Purple-leaf Winter Creeper	1 gal.	Pot	450 mm	
Go	73	Galium odoratum	Sweet Woodruff	1 gal.	Pot	300 mm	
Hb	16	Hosta x 'Blue Ivory'	Blue Ivory Hosta	1 gal.	Pot	600 mm	
Hg	10	Hosta x 'Guacamole'	Guacamole Hosta	1 gal.	Pot	600 mm	
sCT	35	Sedum x ``Cherry Tart``	Cherry Tart Sedum	1 gal.	Pot	400 mm	
Tp	4.3 m²	Trifolium pratense	Red Clover	seed			Hand sowing (6lbs/1000 sq ft)



KEY PLAN
N.T.S.



Legend

- EXISTING TREES
- PROPOSED TREES
- SHRUBS / PERENNIALS / GROUND COVER
- SOD
- TURF STONE
- BIKE RACK
- STRING LIGHTS
- BOLLARD LIGHTS (BL)
- PROPERTY BOUNDARY

GENERAL NOTES:

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PLANTING PLAN

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ISSUED FOR OPA/ZBA, NOT FOR CONSTRUCTION.

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
JENNIFER HARKER
OALA
14.12.2023
MEMBER

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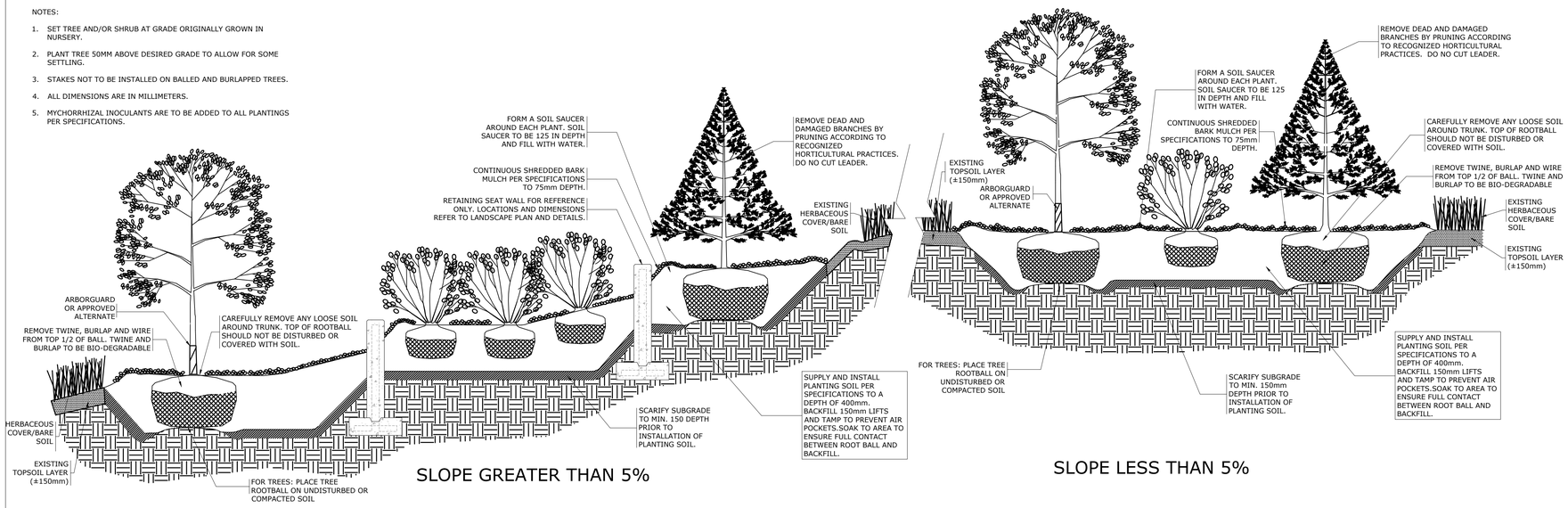
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Scale: 1:100 | Project No.: 22220

L1.1

NOTES:

1. SET TREE AND/OR SHRUB AT GRADE ORIGINALLY GROWN IN NURSERY.
2. PLANT TREE 50MM ABOVE DESIRED GRADE TO ALLOW FOR SOME SETTLING.
3. STAKES NOT TO BE INSTALLED ON BALLED AND BURLAPPED TREES.
4. ALL DIMENSIONS ARE IN MILLIMETERS.
5. MYCHORRHIZAL INOCULANTS ARE TO BE ADDED TO ALL PLANTINGS PER SPECIFICATIONS.



CONTINUOUS BED PLANTING

N.T.S.

PLANTING NOTES:

1. ALL PLANT MATERIAL SHALL BE NO.1 NURSERY GROWN, MEETING SPECIFICATIONS FOR SIZE, HEIGHT, SPREAD, GRADING, QUALITY, METHOD OF CULTIVATION, AND BALLING AND BURLAP SPECIFICATIONS AS SET OUT IN THE 8TH EDITION 2006 GUIDE SPECIFICATION FOR NURSERY STOCK PREPARED BY THE CNLA.

2. NO SUBSTITUTIONS IN SPECIES, CULTIVAR, QUANTITY, SIZE OR CONDITION WILL BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANT. ANY UNAPPROVED SUBSTITUTED MATERIAL WILL BE REQUIRED TO BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR.

3. ANY INCONSISTENCIES FOUND IN THE QUANTITIES AS SHOWN ON THE PLAN AND THE PLANT LIST SHALL BE IMMEDIATELY REPORTED TO THE CONSULTANT.

4. LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. LAYOUT, PLANT STAKE-OUT AND DELIVERED PLANT MATERIAL SHALL BE APPROVED BY THE CONSULTANT PRIOR TO INSTALLATION.

5. NATIVE OR IMPORTED TOPSOIL SHALL BE TESTED AS SPECIFIED AND APPROVED BY THE CONSULTANT PRIOR TO ADDING ANY AMENDMENTS AND PLACEMENT. PLANTING MIX, WHERE INDICATED, SHALL FOLLOW THE MIX SPECIFICATIONS.

6. PROVIDE 400MM MINIMUM DEPTH OF APPROVED TOPSOIL OR PLANTING MIX IN ALL BEDS, UNLESS OTHERWISE NOTED. ALL BEDS SHALL BE MULCHED WITH APPROVED MULCH TO A MINIMUM DEPTH OF 75MM, UNLESS OTHERWISE NOTED. DEPTHS SHALL BE THOSE ACHIEVED UNDER LIGHT COMPACTION. AREAS TO BE SODDED OR SEEDED SHALL BE PROVIDED WITH 150 MM OF APPROVED TOPSOIL, COMPACTED TO 85% SPD.

7. NO BARE-ROOT PLANTING SHALL BE PERMITTED BETWEEN MAY 15 AND OCTOBER 15.

8. PLANT MATERIAL SHALL BE THOROUGHLY WATERED AT THE TIME OF PLANTING.

9. THOSE AREAS NOT SPECIFICALLY IDENTIFIED FOR PLANTING, OR OTHERWISE NOTED, SHALL BE SODDED. SODDING SHALL BE MAINTAINED AND WARRANTED UNTIL FIRST CUT. SEEDING SHALL BE MAINTAINED AND WARRANTIED UNTIL OCTOBER 1 FOR SPRING SEEDING AND JUNE 1 FOR FALL SEEDING.

10. ALL TREES AND SHRUBS SHALL BE UNDER WARRANTY FOR A PERIOD OF 24 MONTHS COMMENCING ON THE DATE OF ACCEPTANCE.

11. THE CONTRACTOR SHALL PROVIDE MAINTENANCE IMMEDIATELY AFTER THE PLANTS ARE INSTALLED AND CONTINUE THROUGHOUT THE ENTIRE WARRANTY PERIOD. MAINTENANCE REQUIREMENTS SHALL INCLUDE ALL PROCEDURES CONSISTENT WITH PROPER HORTICULTURAL PRACTICES TO ENSURE NORMAL, VIGOROUS, AND HEALTHY GROWTH OF ALL MATERIAL PLANTED. ALL STAKES, WIRE, HOSE, AND OTHER ACCESSORIES MUST BE REMOVED PRIOR TO FINAL WARRANTY INSPECTION.

12. ALL PLANT MATERIAL USED AS REPLACEMENTS FOR UNACCEPTABLE MATERIAL SHALL BE OF THE SAME QUALITY AND REQUIREMENTS PRESCRIBED FOR THE ORIGINAL MATERIAL. REPLACEMENTS SHALL BE MADE ONCE UNDER THE WARRANTY.

GROWING MEDIUM NOTES:

1.0 GROWING MEDIUM TESTING:

1.1 GROWING MEDIUMS (TOPSOIL; PLANTING MIXES) AND ORGANIC AMENDMENTS MUST BE TESTED BY AN OMAFRA ACCREDITED AGENCY AND APPROVED PRIOR TO USE. TEST TOPSOIL FOR P, K, CA AND MG, MINOR ELEMENT VALUES, SOLUBLE SALT CONTENT, ORGANIC MATTER, TEXTURE AND PH VALUE APPROPRIATE FOR THE ESTABLISHMENT AND GROWTH OF ORNAMENTAL NURSERY STOCK. SUBMIT TEST RESULTS AND ANALYSIS INCLUDING RECOMMENDATIONS FOR AMENDMENTS AND FERTILIZER TO THE CONSULTANT.

2.0 TOPSOIL:

2.1 TOPSOIL SHALL BE FERTILE, FRIABLE, TOPSOIL, FREE OF: FRAGMENTS LARGER THAN 75MM IN SIZE; STONES OVER 30MM IN DIAMETER; DEBRIS; PLANTS OR THEIR ROOTS; STICKS; NOXIOUS SEED PLANTS; STOLONS; SEEDS; SALTS; SOIL STERILANTS; CHEMICAL CONTAMINANTS; O OTHER MATERIALS DETRIMENTAL TO PLANT GROWTH.

2.2 FERTILIZER AND AMENDMENTS: MUST BE MADE AS PER SOIL TESTING AGENCY RECOMMENDATIONS.

2.3 ALL TOPSOIL FOR THE INTENSIVE USE LAWN AREAS SHALL BE SANDY LOAM CLASS ONLY.

2.4 TOPSOIL: SHALL NOT BE MOVED, DELIVERED OR WORKED ON WHILE IN A FROZEN STATE OR CONDITION.

3.0 GROWING MEDIUM - PLANTING MIXES:

3.1 PLANTING MIX: (WHERE SPECIFIED) SHALL BE THOROUGHLY COMBINED PRIOR TO PLACEMENT IN PLANTING BED AREAS TO THE FOLLOWING PROPORTIONS: 4 PARTS APPROVED TOPSOIL, 1 PART COMPOST, 1 PART SHREDDED PEAT MOSS AND AN APPLICATION OF HIGH PHOSPHOROUS FERTILIZER (0-20-0).

3.2 MIXES CONTAINING A SIGNIFICANT AMOUNT OF PEAT MOSS SHALL NOT BE PERMITTED TO DRY OUT. THE MOISTURE CONTENT OF THE PEAT MOSS AT THE TIME OF MIXING SHALL BE NOT LESS THAN 60% TO 75%.

4.0 FERTILIZER AND AMENDMENTS:

4.1 ORGANIC SOIL ADDITIVE: "GRO-BARK" FINE COMPOSTED PINE MULCH OR AN APPROVED ALTERNATIVE.

4.2 FERTILIZER: COMPLETE COMMERCIAL FERTILIZER WITH 50% OF THE ELEMENTS DERIVED FROM ORGANIC SOURCES.

4.3 PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR AND IRON AND OF BROWN COLOUR CONTAINING MINIMUM 60% ORGANIC MATTER BY WEIGHT, MOISTURE CONTENT NOT EXCEEDING 15% AND PH VALUE OF 3.4 - 5.5.

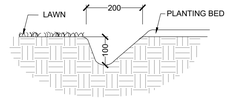
4.4 COMPOST AND MANURE: SHALL MEET THE STANDARDS FOUND IN THE INTERIM GUIDELINES FOR THE PRODUCTION AND USE OF AEROBIC COMPOST IN ONTARIO PUBLISHED BY THE ONTARIO MINISTRY OF ENVIRONMENT AND ENERGY (MOEE), AND SHALL BE VIRTUALLY FREE FROM ALL VIABLE WEED SEEDS, OR OTHER PLANT REPRODUCTIVE PARTS, PATHOGENS, CHEMICALS OR TOXIC CONTAMINATES. MANURE SHALL BE WELL ROTTED, UNBLEACHED CATTLE MANURE, FREE FROM HARMFUL CHEMICALS AND OTHER INJURIOUS SUBSTANCES, AT LEAST EIGHT MONTHS OLD, BUT NOT MORE THAN TWO YEARS OLD AND WITH NO MORE THAN 25% STRAW, LEAVES OR OTHER MATERIALS. PHYSICAL CONTAMINATES SUCH AS ROCK, PLASTIC, METAL OR GLASS SHALL BE LESS THAN 0.5%. TOTAL CARBON TO NITROGEN RATIO IN THE RESULTING GROWING MEDIUM SHALL NOT EXCEED 30:1.

4.5 LIME: LIMESTONE CONTAINING NOT LESS THAN 8% OF CALCIUM AND MAGNESIUM CARBONATES COMBINED, FINELY GROUND TO PASS A 10 MESH SIEVE WITH AT LEAST ONE HALF PASSING A 100 MESH SIEVE. RATE OF APPLICATION SHALL BE DETERMINED AFTER THE PH OF THE TOPSOIL.

4.6 BONEMEAL: RAW, FINELY GROUND WITH A MINIMUM ANALYSIS OF 4% NITROGEN AND 20% PHOSPHORIC ACID.

4.7 SAND: SHARP, CLEAN SAND, TO OPSS 1002-3.

THIS DETAIL TO BE FOLLOWED WHERE ALTERNATIVE BED EDGE IS NOT DEFINED ON DRAWINGS



TYPICAL PLANTING BED EDGE
SCALE 1:10

DETAILS

1 Columbia Street West &
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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
JENNIFER HALLMAN
OALA
14.12.2023
MEMBER

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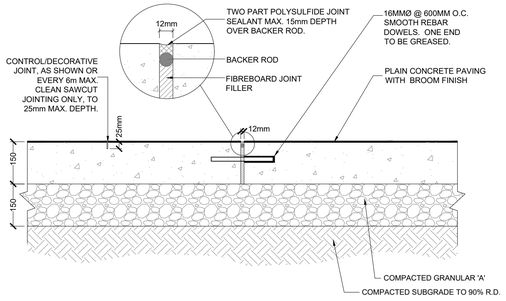
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L2.0

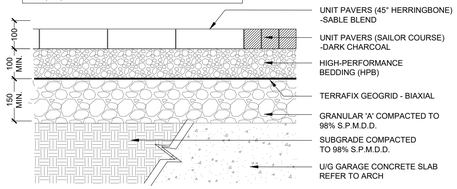
NOTES:
1. EXPANSION JOINT - AS SHOWN OR AT ALL COLD JOINTS OR PERIMETER BOUNDARIES WITH OTHER STRUCTURES OF PAVING AND BUILDING WALLS.
2. TOOLED EDGES TO BE INSTALLED AS DIRECTED BY LANDSCAPE ARCHITECT.
3. DECORATIVE PAVING TO BE MEDIUM SANDBLAST FINISH.
4. SAMPLE OF DECORATIVE PAVING TO BE PROVIDED ON SITE PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT



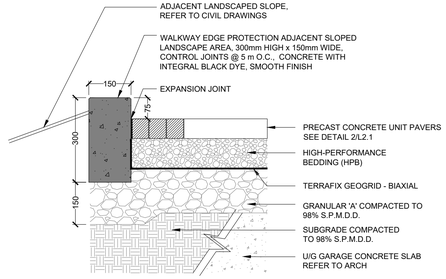
1 CONCRETE PAVING
Scale 1:10

NOTE:
1. PAVING STONES SHALL HAVE A FLUSH AND STABLE PAVING CONDITION WITH NO SURFACE DEFLECTION.
2. JOINTS SHALL BE NO GREATER THAN 5mm WIDE AND EXPANSION JOINTS NO HIGHER THAN 13mm.

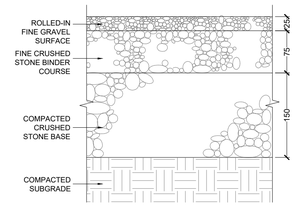
PAVER TYPE
UNILOCK - MATTONI
COLOUR: SABLE BLEND (PRIMARY), DARK CHARCOAL (EDGE BANDING)
SIZE (mm): 60 x 240 x 70



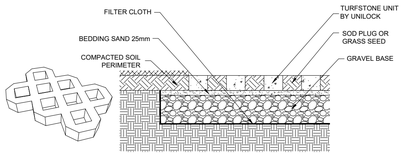
2 UNIT PAVING
Scale 1:10



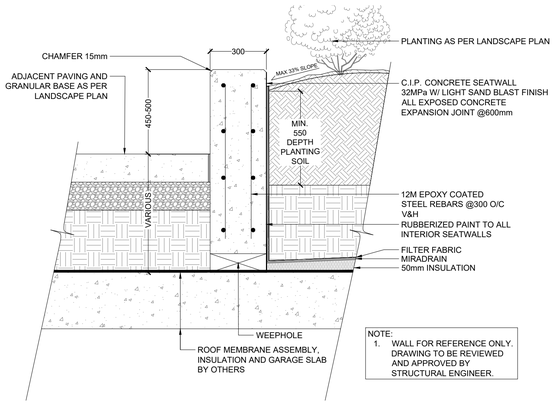
3 CONCRETE EDGE PROTECTION
Scale 1:10



4 PEA GRAVEL PAVING
1:5



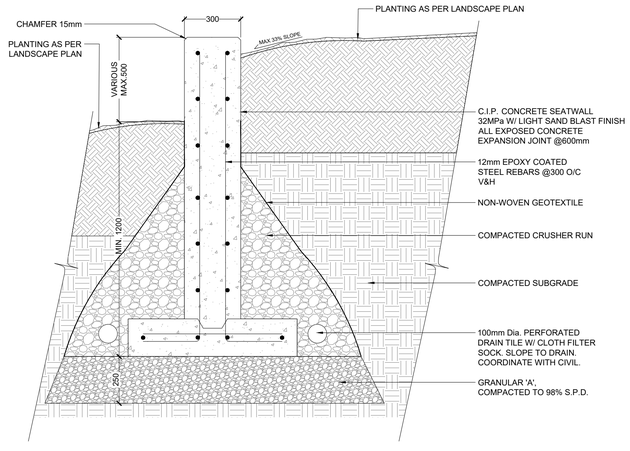
5 TURF STONE
N.T.S.



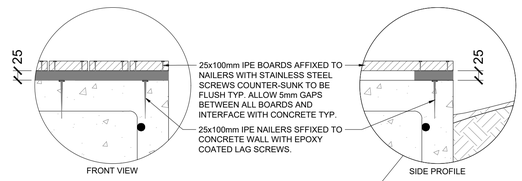
NOTE:
1. WALL FOR REFERENCE ONLY. DRAWING TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

6 SEATWALL TYPE 1 (SECURED TO SLAB)
Scale: 1:15

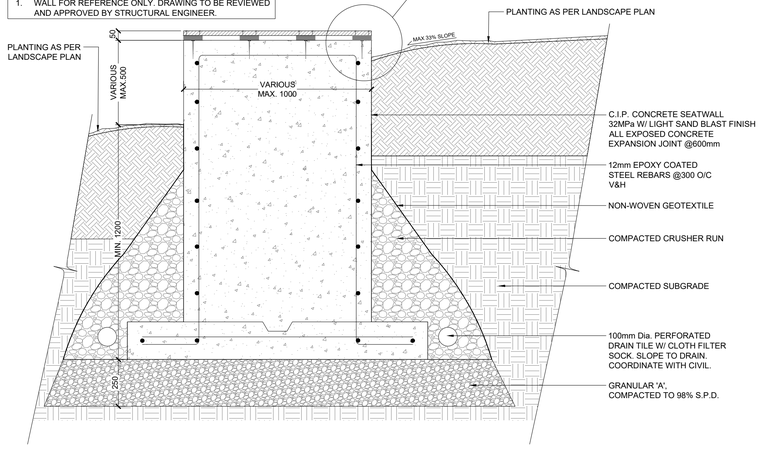
NOTE:
1. WALL FOR REFERENCE ONLY. DRAWING TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.



7 SEATWALL TYPE 2
Scale: 1:15



NOTE:
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8 SEATWALL TYPE 3
Scale: 1:15

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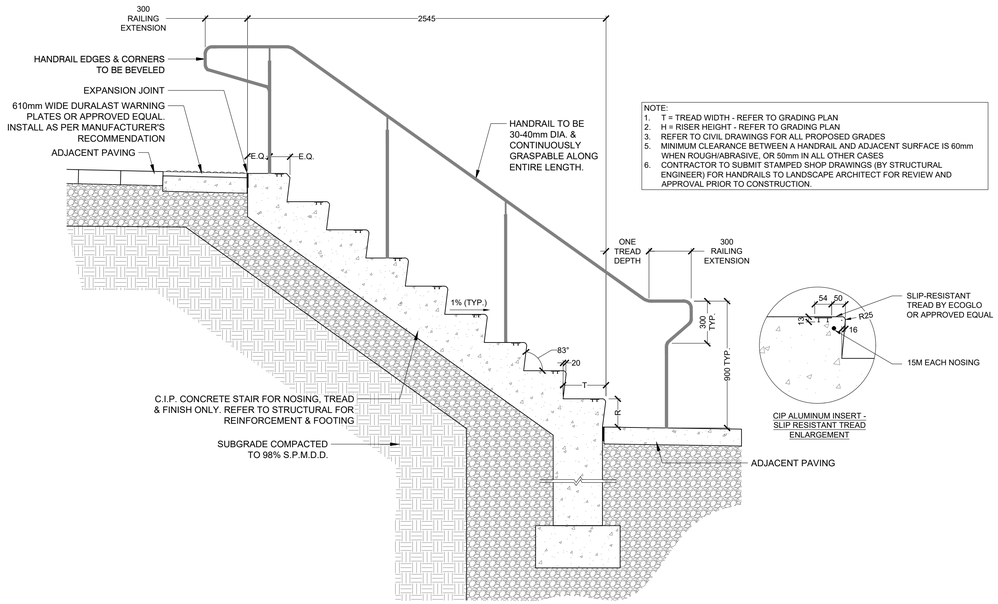
ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — JENNIFER HARPER — OALA MEMBER — 14.12.2023

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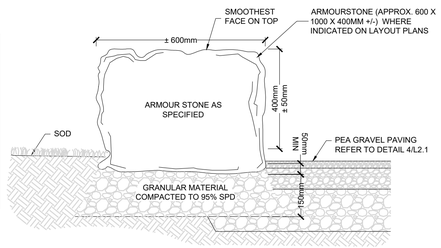
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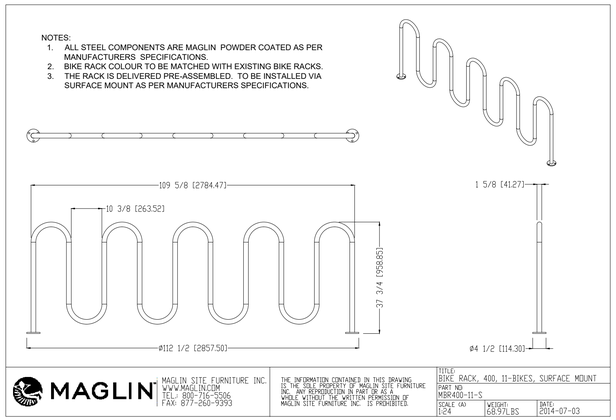
1 C.I.P. CONCRETE STAIR

ARMOURSTONE NOTES:

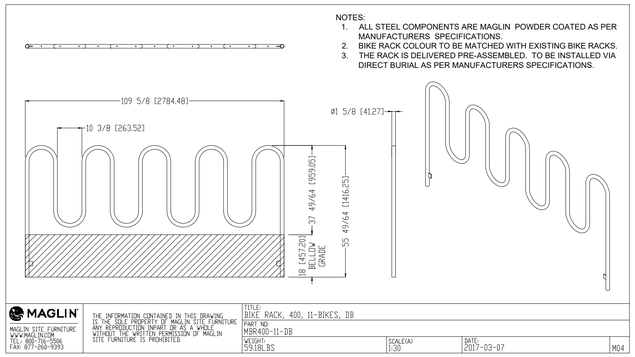
1. ALL STONES SHALL BE OF A UNIFORM THICKNESS AND RECTANGULAR IN SHAPE. STONES BLASTED FROM QUARRIES WITH IRREGULAR SHAPES OR SHARP EDGES WILL NOT BE ACCEPTED.
2. A MINOR TOLERANCE WILL BE ACCEPTABLE TO ADJUST WITH ADJACENT GRADES AND ROCK ELEVATIONS TO ACHIEVE THE DESIRED PURPOSE.
3. THE CONTRACTOR SHALL CONTACT THE CONSULTANT FOR APPROVAL OF STONE AT THE EXTRACTION SOURCE OR DISTRIBUTION FACILITY
4. THE CONSULTANT RESERVES THE AUTHORITY TO REJECT ANY MATERIAL DELIVERED TO THE SITE THAT IS DEEMED UNSUITABLE.
5. GRANULAR BASE MATERIAL AND LAYOUT TO BE APPROVED BY CONSULTANT PRIOR TO STONE INSTALLATION.



3 ARMOUR STONE
Scale 1:10



2 BIKE RACK - 11 BIKES (SURFACE MOUNT)
N.T.S.



4 BIKE RACK - 11 BIKES (DIRECT BURIAL)
N.T.S.

600 SERIES

MTR-0600-00005



MATERIALS:	The trash container is constructed using a steel sheet metal frame. The lid is constructed using the spun metal process and is made from steel. The lid is attached to the frame with a hinge. A 32-imperial gallon commercial grade LLPDE plastic liner is provided.
FINISH:	All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.
INSTALLATION:	The trash container is delivered pre-assembled. There are 3 leveling feet and one 9/16" hole in the center of the base for anchoring.
TO SPECIFY:	Select MTR-0600-00005 Choose: - Powdercoat Color

HEIGHT: 36 1/4" (92.1cm) DIAMETER: 22 3/8" (56.8cm) WEIGHT: 116.40lbs (54kg) LINER CAPACITY: 32.0gal (121.0 L)

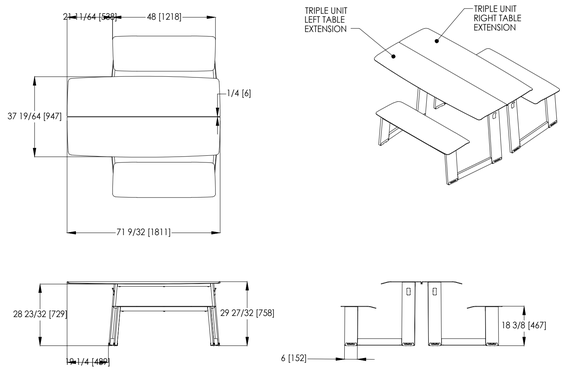


MAGLIN Site Furniture
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www.maglin.com
sales@maglin.com

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5 WASTE RECEPTACLE
N.T.S

Take–Out Triple units, left and right table extension, back to back
Product Drawing www.landscapeforms.com Date: 2/23/2022 Ph: 800.521.2546

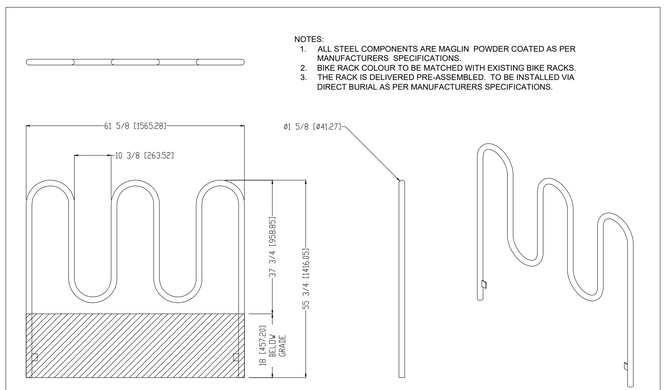


Drawing: DB0001
Dimensions are in inches [mm]

landscapeforms

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6 PICNIC TABLE
N.T.S



7 BIKE RACK - 7 BIKES (DIRECT BURIAL)
N.T.S.

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