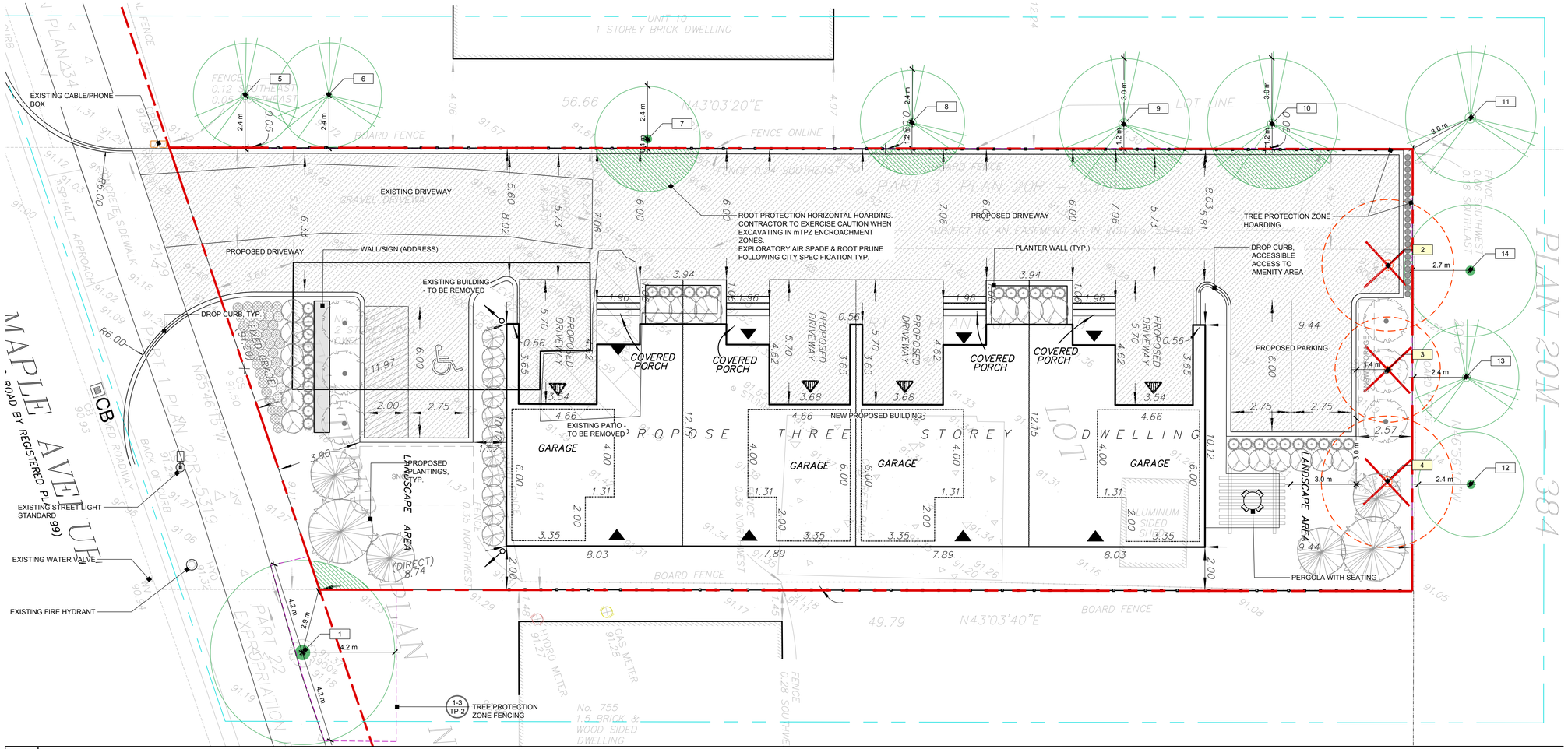


1 TREE PRESERVATION PLAN

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SCALE 1:100

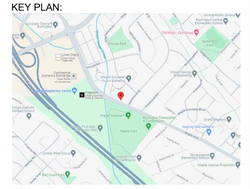
Table 1. Tree Inventory

Location: 759 Maple Ave Date: 12-Jan-24 Surveyors: AN, MG

Tree #	Common Name	Scientific Name	DBH (cm)	Tree Health	Tree Structure	TPZ (m)	Comments	Action	Owner	Reason for Removal	Compensation
1	Crimson King Norway Maple	*Acer platanoides 'Crimson King'*	67	Good	Good	4.2	Root prune following city specs	Protect	City		
2	Crimson King Norway Maple	*Acer platanoides 'Crimson King'*	48	Good	Good	3		Remove	Subject Property	Within proposed project	3
3	Crimson King Norway Maple	*Acer platanoides 'Crimson King'*	38.1	Fair	Poor	2.4	Weak attachment point at fork	Remove	Subject Property	Within proposed project	3
4	Crimson King Norway Maple	*Acer platanoides 'Crimson King'*	44.4	Good	Fair	3	Bulge/deformity in trunk from previous pruning injury	Remove	Subject Property	Within proposed project	3
5	Norway Spruce	*Picea abies*	33	Good	Good	2.4		Protect	Neighbour		
6	White Spruce	*Picea glauca*	27.4	Good	Good	2.4		Protect	Neighbour		
7	Ironwood	*Ostrya virginiana*	38.2	Good	Fair	2.4	Evidence of coppicing/watersprouts, included bark. Root prune following city specs	Protect	Neighbour		
8	Norway Spruce	*Picea abies*	38.8	Good	Good	2.4	Root prune following city specs	Protect	Neighbour		
9	Norway Spruce	*Picea abies*	47.5	Good	Good	3	Root prune following city specs	Protect	Neighbour		
10	Eastern White Cedar	*Thuja occidentalis*	43.3	Good	Good	3	Multiple stems: √(14.5^2, 20^2, 10^2, 11.5^2, 22^2, 13^2, 12^2, 8^2, 10^2, 7.8^2) = 43.3 DBH. Root prune following city specs.	Protect	Neighbour		
11	Norway Spruce	*Picea abies*	48.4	Good	Good	3		Protect	Neighbour		
12	Basswood	*Tilia americana*	38	Good	Good	2.4	Slight bend in stem	Protect	Neighbour		
13	White Pine	*Pinus strobus*	36.5	Good	Good	2.4		Protect	Neighbour		
14	Basswood	*Tilia americana*	42	Good	Good	3	Split in bark going up trunk. Root prune following city specs	Protect	Neighbour		

CERTIFIED ARBORIST ISA
Allison Neuhauser
ON-3046A

KEY PLAN:



LEGEND

LIMITS
- PROPERTY LINE
- TREE INVENTORY BOUNDARY (6m)
- TPZ - SOLID HOARDING

SYMBOLS
- EXISTING TREES TO REMAIN
- MINIMUM TPZ: BASED ON DBH
- EXISTING TREE TO BE REMOVED
- ROOT PROTECTION HOARDING

0 1 2 3 4 5
SCALE 1:100

PROJECT TEAM

CLIENT: **GRANT BURLIE**
LANDSCAPE ARCHITECT: **SEFERIAN DESIGN GROUP LTD.**
ARCHITECT: **STRUCTURED CREATIONS INC.**
CIVIL ENGINEER: **ARCADIS**
PLANNING: **ARCADIS**
ENVIRONMENTAL: **ARCADIS**

NO.	DATE	ISSUE / REVISION	BY
04	2024.09.25	ISSUED FOR SPA RE-SUBMISSION	AN
03	2024.08.19	ISSUED FOR SPA SUBMISSION	AM
02	2024.05.13	ISSUED WITH FENCE DETAIL	AN
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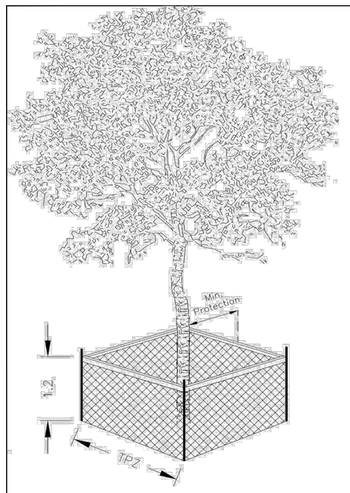
PROJECT:
BURLIE TOWNHOME
BURLIE DEVELOPMENT
759 MAPLE AVENUE
BURLINGTON, ONTARIO L7S 2K1

SHEET TITLE:
TREE INVENTORY & PRESERVATION PLAN

SCALE:	AS SHOWN
DRAWN BY:	AN
CHECKED BY:	AN/HS
DATE:	2024-09-25
SDG FILE NO:	23-096

SHEET NO: TP-1

File Path: W:\Projects\2023\23-096 - 759 Maple Ave\Drawings\CAD\23-096_LANDSCAPE PLANS.dwg Plotted By Allison Neuhauser Plot Date 9/25/2024 3:01 PM Page Size ANSI A (8.50 x 11.00 inches)



Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [3]	Critical Root Zone (CRZ) Distances Required [3&4]
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100+ cm	6.0 m	10.0 m

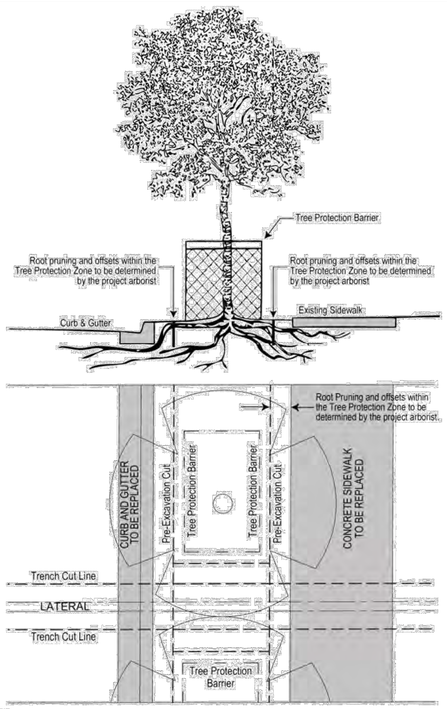
NOTES:

[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) is the measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

TREE PROTECTION BARRIER

1. The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2" x 4" frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.
2. Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the Manager of Urban Forestry or designate.
3. All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports and bracing should minimize damage to roots.
4. Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.
5. No materials or fill may be stored within the MTPZ.
6. Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.
7. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the Manager of Urban Forestry or designate.
8. A laminated Minimum Tree Protection Zone sign (See Detail TP-3 – Minimum Tree Protection Zone Sign) must be attached to the side of the Tree Protection where it will be visible by persons entering the site. Minimum size must be 10"x14".

1 | TREE PROTECTION ZONE FENCING | NTS
CITY OF BURLINGTON STANDARD SPECIFICATION



NOTE:
For excavations perpendicular to to the curbing (ie. sidewalk, curbing, water or sewer laterals renewal)

(a) The contractor is to use a trench box to minimize the width of the open cut.
(b) When the lateral replacement is within the Tree Protection Zone of a tree, the contractor is to complete the works using trenchless technologies.

2 | ROOT PRUNING | NTS
CITY OF BURLINGTON STANDARD SPECIFICATION

CITY OF Burlington

TREE PROTECTION ZONE (TPZ)

No equipment or vehicles shall be operated, parked, repaired or refueled within the Tree Protection Zone.

No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

No materials or fill may be stored within the Tree Protection Zone.

This tree protection barrier must not be removed prior to the completion of construction without written authorization from the City of Burlington, Urban Forestry Department.

For information, contact:
City of Burlington, Development and Infrastructure Division,
905-335-7642.

3 | TREE PROTECTION ZONE SIGNAGE | NTS
CITY OF BURLINGTON STANDARD SPECIFICATION

ESTABLISHMENT OF TREE PROTECTION ZONE, BARRIERS & FENCING

1. WHERE TREES LOCATED WITHIN THE PROJECT AREA THAT IT HAS BEEN DETERMINED THE FEASIBILITY FOR PRESERVATION IS GOOD, TREE PROTECTION BARRIERS ARE PROPOSED TO ESTABLISH A TREE PROTECTION ZONE (REFER TO TREE PRESERVATION PLAN). ALL TREES LOCATED ON ADJACENT PROPERTIES SHALL BE PRESERVED.
2. THE TREE PROTECTION ZONE SHALL BE ESTABLISHED BY THE INSTALLATION OF TREE PROTECTION FENCING. THE TREE PRESERVATION PLAN INDICATES THE LAYOUT OF THE FENCING. THE TREE PROTECTION FENCING SHALL FOLLOW MUNICIPAL GUIDELINES AND/OR REQUIREMENTS UNLESS STATED OTHERWISE WITHIN THE DETAILED VEGETATION MANAGEMENT PLAN.
3. TREE PROTECTION BARRIERS ARE TO BE ERECTED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR GRADING ACTIVITIES ON THE SITE AND ARE TO REMAIN IN PLACE THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE APPLICANT SHALL NOTIFY THE MUNICIPAL REPRESENTATIVE PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES TO CONFIRM THAT THE TREE PROTECTION BARRIERS ARE IN PLACE.
4. ALL SUPPORTS AND BRACING USED TO SAFELY SECURE THE BARRIER SHOULD BE LOCATED OUTSIDE THE TREE PROTECTION ZONE. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS.
5. WHERE SOME FILL OR EXCAVATED MATERIAL MUST BE TEMPORARILY LOCATED NEAR THE TREE PROTECTION ZONE, A WOODEN BARRIER MUST BE USED TO ENSURE NO MATERIAL(S) ENTERS THE TREE PROTECTION ZONE.

TREE INVENTORY

REFER TO TABLE 1 OF REPORT DATED JANUARY 12, 2024. TREES GREATER THAN 20CM DBH ON AND WITHIN 6.0 METERS OF THE SUBJECT PROPERTIES, AND TREES OF ALL SIZES WITHIN THE ROAD RIGHT-OF-WAY WERE INCLUDED IN THE INVENTORY.

TREE REMOVALS

1. THE REMOVAL OF 3 TREES IS REQUIRED TO ACCOMMODATE THE PROPOSED DEVELOPMENT AS INDICATED WITH RED LABELS.

TREE PRESERVATION

THE PRESERVATION OF ALL REMAINING TREES WILL BE POSSIBLE WITH THE APPROPRIATE TREE PROTECTION MEASURES. TREES IDENTIFIED FOR PRESERVATION ARE INDICATED WITH GREEN LABELS. TREE PROTECTION MEASURES MUST BE IMPLEMENTED PRIOR TO THE COMMENCEMENT OF THE PROPOSED WORKS. REQUIRED TREE PRESERVATION FENCING IS INDICATED IN MAGENTA.

LIMITATIONS OF ASSESSMENT

IT IS SEFERIAN DESIGN GROUP POLICY TO ATTACH THE FOLLOWING CLAUSE REGARDING LIMITATIONS. WE DO THIS TO ENSURE THAT THE ALL INTERESTED PARTIES ARE AWARE OF WHAT IS TECHNICALLY AND PROFESSIONALLY REALISTIC IN RETAINING TREES.

ONLY THE TREES IDENTIFIED IN THESE PLANS WERE INCLUDED IN THE INVENTORY. THE ASSESSMENT OF THE TREES PRESENTED ON THESE PLANS HAS BEEN MADE USING ACCEPTED ARBORICULTURAL TECHNIQUES. THIS MAY INCLUDE A VISUAL EXAMINATION TAKEN FROM THE GROUND OF ALL THE ABOVE-GROUND PARTS OF THE TREE FOR: STRUCTURAL DEFECTS; SCARS; EXTERNAL INDICATIONS OF DECAY SUCH AS FUNGAL FRUITING BODIES; EVIDENCE OF ATTACK BY INSECTS; DISCOLOURED FOLIAGE; THE CONDITION OF ANY VISIBLE ROOT STRUCTURES; THE DEGREE AND DIRECTION OF LEAN (IF ANY); THE GENERAL CONDITION OF THE TREES AND THE IDENTIFICATION OF POTENTIALLY HAZARDOUS TREES OR RECOMMENDATIONS FOR REMOVAL (IF APPLICABLE). EXCEPT WHERE SPECIFICALLY NOTED, THE TREES WERE NOT CORED, PROBED OR CLIMBED AND THERE WAS NO DETAILED INSPECTION OF THE ROOT CROWNS INVOLVING EXCAVATIONS. WHERE TREES COULD NOT BE DIRECTLY ACCESSED (I.E. DUE TO OBSTRUCTIONS AND/OR ON NEIGHBOURING PROPERTIES), TREES WERE ASSESSED AS ACCURATELY AS POSSIBLE FROM NEARBY VANTAGE POINTS.

FURTHERMORE, RECOMMENDATIONS MADE IN THESE PLANS AND CORRESPONDING REPORTS ARE BASED ON THE SITE PLANS THAT HAVE BEEN PROVIDED AT THE TIME OF REPORTING. THESE RECOMMENDATIONS MAY NO LONGER BE APPLICABLE SHOULD CHANGES BE MADE TO THE SITE PLAN AND/OR GRADING, SERVICING, OR LANDSCAPING PLANS FOLLOWING REPORT SUBMISSION.

NOTWITHSTANDING THE RECOMMENDATIONS AND CONCLUSIONS MADE ON THESE PLANS AND CORRESPONDING REPORTS, IT MUST BE RECOGNIZED THAT TREES ARE LIVING ORGANISMS, AND THEIR HEALTH AND VIGOUR CONSTANTLY CHANGE OVER TIME. THEY ARE NOT IMMUNE TO CHANGES IN SITE CONDITIONS OR SEASONAL VARIATIONS IN THE WEATHER CONDITIONS. ANY TREE WILL FAIL IF THE FORCES APPLIED TO THE TREE EXCEED THE STRENGTH OF THE TREE OR ITS PARTS.

WHILE REASONABLE EFFORTS HAVE BEEN MADE TO ENSURE THAT THE TREES RECOMMENDED FOR RETENTION ARE HEALTHY, NO GUARANTEES ARE OFFERED, OR IMPLIED, THAT THESE TREES OR ANY OF THEIR PARTS WILL REMAIN STANDING. IT IS BOTH PROFESSIONALLY AND PRACTICALLY IMPOSSIBLE TO PREDICT WITH ABSOLUTE CERTAINTY THE BEHAVIOUR OF ANY SINGLE TREE OR ITS COMPONENT PARTS UNDER ALL CIRCUMSTANCES. INEVITABLY, A STANDING TREE WILL ALWAYS POSE SOME LEVEL OF RISK. MOST TREES HAVE THE POTENTIAL FOR FAILURE UNDER ADVERSE WEATHER CONDITIONS, AND THE RISK CAN ONLY BE ELIMINATED IF THE TREE IS REMOVED.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THIS ASSESSMENT IS REASONABLY ACCURATE, THE TREES SHOULD BE RE-ASSESSED PERIODICALLY. THE ASSESSMENT PRESENTED ON THESE PLANS AND IN CORRESPONDING REPORTS ARE VALID AT THE TIME OF INSPECTION.

MIGRATORY BIRDS CONVENTION ACT:

THE OWNER AND CONTRACTOR MUST BE AWARE OF THE MIGRATORY BIRDS CONVENTION ACT (1994), SPECIFICALLY:

1. NO TREE REMOVAL OR CONSTRUCTION SHALL CONTRAVENE THE ACT
2. CONSTRUCTION ACTIVITIES AND VEGETATION REMOVAL WITH THE POTENTIAL TO HARM MIGRATORY BIRDS AND THEIR NEST SHOULD BE RESTRICTED FROM MARCH 31 TO AUGUST 31
3. IF WORK MUST OCCUR DURING THIS TIME, A NEST SURVEY MUST BE UNDERTAKEN BY A QUALIFIED BIOLOGIST; AND
4. IF ACTIVE NESTS ARE FOUND, A MIGRATION PLAN (SHOWING ACTIVE NESTS AND APPROPRIATE BUFFERS) MAY BE REQUIRED FOR REVIEW AND APPROVAL BY CANADIAN WILDLIFE SERVICES (CWS).

TREE PRESERVATION NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WRITTEN SPECIFICATIONS AND WITH THE ENGINEER'S FINAL SITE DRAWINGS. THESE DRAWINGS TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. FIELD STAKING OF PROPERTY BOUNDARY AND ACCURATE TREE LOCATES TO BE DONE BY SURVEYOR OF RECORD.
3. ANY DISCREPANCIES IN THIS DRAWING OR ACCOMPANYING DETAILS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT / OR ENGINEER. CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
4. THE CONTRACTOR IS TO BE AWARE OF ALL EXISTING AND PROPOSED SERVICES AND UTILITIES. THE CONTRACTOR SHALL CHECK ALL UNDERGROUND SERVICES AND UTILITY LINES STAKED BY EACH AGENCY HAVING JURISDICTION PRIOR COMMENCING THE WORK.
5. ALL TREES LOCATED WITHIN THE PROJECT AREA DESIGNATED FOR PRESERVATION (REFER TO TREE PRESERVATION PLAN), OR DENOTED EXISTING , AND ALL TREES LOCATED ON ADJACENT PROPERTIES SHALL BE PRESERVED. IN THE EVENT THAT ANY TREES DESIGNATED FOR PRESERVATION LOCATED WITHIN THE PROJECT AREA OR ON ADJACENT PROPERTIES ARE DAMAGED OR KILLED BY THE ACTIONS OF A CONTRACTOR OR THEIR AGENTS/SUB-CONTRACTORS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF THE DESTROYED PLANT MATERIAL WITH MATERIAL OF EQUAL AND VALUE AND COMPARABLE SPECIES TO THE SATISFACTION OF THE PROJECT ARBORIST OR THEIR REPRESENTATIVE.
6. NO GRADE CHANGES SHALL OCCUR WITHIN TREE PROTECTION ZONE. IN THE EVENT THAT GRADE CHANGES MAY OCCUR THE CONSULTING ARBORIST MUST BE NOTIFIED SO THAT PRECAUTIONS TO PRESERVE THE TREE, SUCH DRY WELLING OR ROOT FEEDING CAN BE DETERMINED PRIOR TO THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES.
7. TREES SHALL NOT HAVE ANY RIGGING CABLES OR HARDWARE OF ANY SORT ATTACHED OR WRAPPED AROUND THEM, NOR SHALL ANY CONTAMINANTS BE DUMPED WITHIN THE PROTECTIVE AREAS. FURTHERMORE, NO CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE THEY MAY COME IN CONTACT WITH THE FEEDER ROOTS OF THE TREES.
8. THE CONTRACTOR WILL TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO TREES OR SHRUBS. THE CONTRACTOR WILL TAKE EVERY PRECAUTION TO PROTECT PLANT AND ROOT SYSTEMS FROM DAMAGE, COMPACTION AND CONTAMINATION RESULTING FROM THE CONSTRUCTION TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR OR CONSULTING ARBORIST.
9. ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TREE PROTECTION ZONE(S) INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE PRUNED BY A CERTIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY MUNICIPAL REPRESENTATIVE. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS.
10. TREES THAT REQUIRE PRUNING PRIOR TO CONSTRUCTION TO PERMIT CONSTRUCTION ACTIVITIES, HAVE BEEN IDENTIFIED IN THE TREE PRESERVATION PLAN. IN THE EVENT THAT IT IS NECESSARY TO REMOVE ADDITIONAL LIMBS OR PORTIONS OF TREES AFTER CONSTRUCTION HAS COMMENCED, TO ACCOMMODATE CONSTRUCTION, THE CONSULTING ARBORIST IS TO BE INFORMED AND THE REMOVAL IS TO BE EXECUTED CAREFULLY AND IN FULL ACCORDANCE WITH ARBORICULTURAL TECHNIQUES BY A CERTIFIED ARBORIST IN ACCORDANCE WITH CURRENT ISA STANDARDS AND GOOD ARBORICULTURAL PRACTICES.
11. THE CONTRACTOR IS REQUIRED TO INSTALL ALL TREE PROTECTION FENCES FIRST AND OBTAIN APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO UNDERTAKING ANY VEGETATION CLEARING, DEMOLITION AND GRADING WORKS ON SITE.
12. TREES IDENTIFIED FOR REMOVAL SHALL BE CUT AND REMOVED OFF SITE. ALL WOOD CHIPS SHALL BE HAULED AND DISPOSED OFF SITE.

DURING CONSTRUCTION:

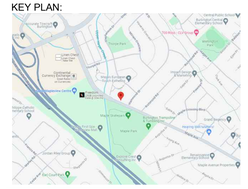
1. MAINTAIN TREE PROTECTION FENCING AND THE TPZ THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
2. DURING EXCAVATION OPERATIONS IN WHICH ROOTS ARE AFFECTED, THE CONTRACTOR IS TO PRUNE ALL EXPOSED ROOTS CLEANLY. PRUNE ENDS TO POINT OBLIQUELY DOWNWARDS THE EXPOSED ROOTS SHOULD NOT BE ALLOWED TO DRY OUT, AND THE CONTRACTOR SHALL DISCUSS WATERING THE ROOTS WITH THE OWNER AND LANDSCAPE ARCHITECT SO THAT THE ROOTS SHALL MAINTAIN OPTIMUM SOIL MOISTURE DURING CONSTRUCTION AND BACKFILLING OPERATIONS. BACKFILLING MUST BE WITH CLEAN UNCONTAMINATED TOPSOIL FROM AN APPROVED SOURCE.
3. AREAS WITHIN THE DRIPLINE OF THE TREES DESIGNATED FOR PRESERVATION ARE NOT TO BE USED FOR ANY TYPE OF STORAGE (I.E. STORAGE OF DEBRIS, CONSTRUCTION MATERIAL, SURPLUS SOILS, AND CONSTRUCTION EQUIPMENT). NO TRENCHING OR TUNNELING FOR UNDERGROUND SERVICES SHALL BE LOCATED WITHIN THE TREE PROTECTION ZONE OR DRIPLINE OF TREES DESIGNATED FOR PRESERVATION WITHIN OR ADJACENT TO CONSTRUCTION ZONE.
4. ANY GRADING REQUIRED WITHIN THE TREE PROTECTION ZONE FOR ANY TREE MUST BE COMPLETED BY HAND UNDER THE SITE SUPERVISION OF THE PROJECT LANDSCAPE ARCHITECT AND OR ARBORIST.

POST-CONSTRUCTION:

1. AFTER CONSTRUCTION, REMOVE ALL PROTECTIVE MATERIAL & BEGIN A CARE AND FEEDING PROGRAM FOR TREES AS REQUIRED.
2. ONE YEAR FOLLOWING CONSTRUCTION THE CONTRACTOR WILL PRUNE OUT ALL DEAD, DYING OR UNSAFE WOOD. ONLY QUALIFIED EXPERIENCED PERSONNEL UNDER THE DIRECTION OF AN ACCREDITED ARBORIST WILL PERFORM THIS WORK.
3. AREAS WHERE ROOT SYSTEMS ARE DIRECTLY EXPOSED SHALL HAVE ROOTS PRUNED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND THEN BACK FILLED WITH GOOD NATIVE LOAM SOIL. THIS WILL BE REVIEWED WITH CONSULTING ARBORIST IF REQUIRED.
4. DAMAGED TREES MUST BE IMMEDIATELY REPAIRED AT CONTRACTOR'S EXPENSE UNDER THE DIRECTION OF THE CONSULTING ARBORIST.
5. ALL TREES TO BE PRESERVED WILL BE MONITORED BY THE PROJECT LANDSCAPE ARCHITECT & CONSULTING ARBORIST DURING THE CONSTRUCTION PERIOD AND FOR A PERIOD OF TWO YEARS FOLLOWING CONSTRUCTION.

CERTIFIED ARBORIST ISA
Allison Neuhauser
ON-3046A

KEY PLAN:



LEGEND

PROJECT TEAM

CLIENT
GRANT BURLIE

LANDSCAPE ARCHITECT:
SEFERIAN DESIGN GROUP LTD.

ARCHITECT
STRUCTURED CREATIONS INC.

CIVIL ENGINEER
ARCADIS

PLANNING
ARCADIS

ENVIRONMENTAL
ARCADIS

NO.	DATE	ISSUE / REVISION	BY
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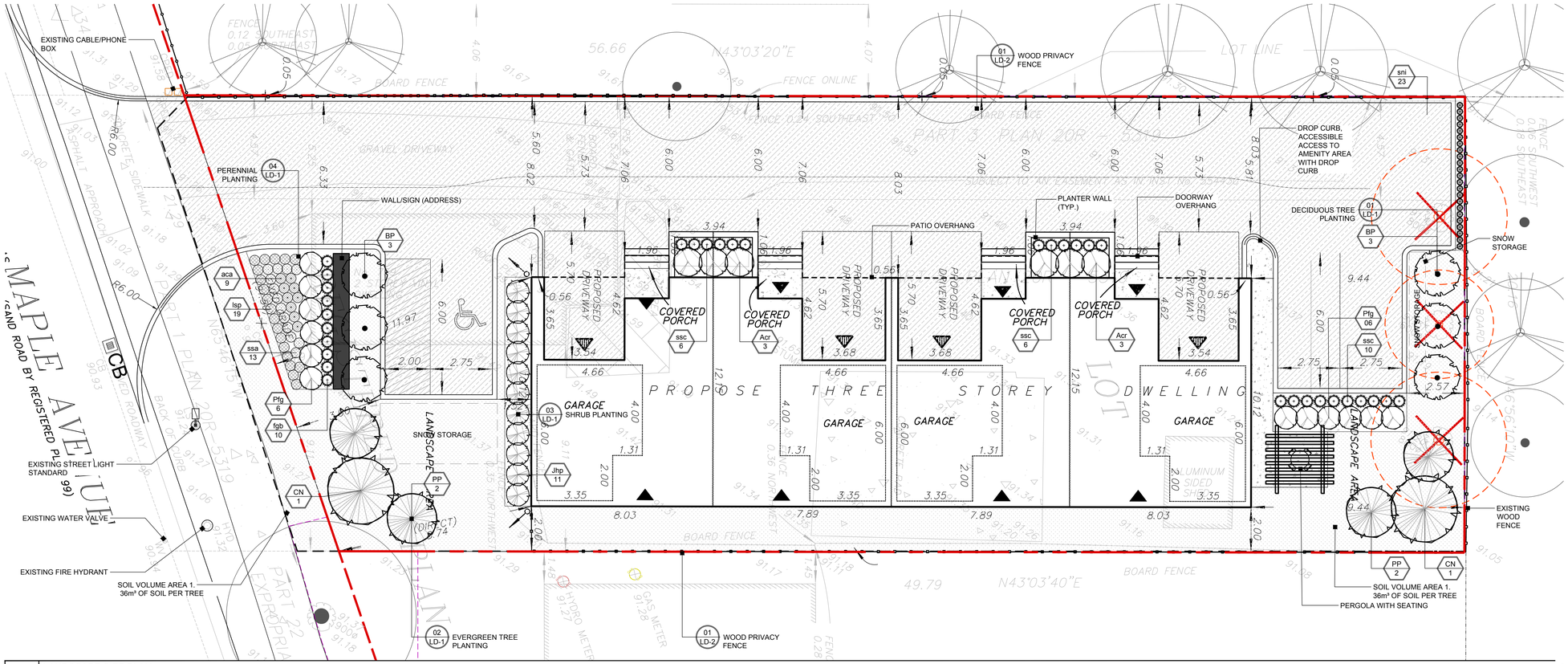
PROJECT:
BURLIE TOWNHOME
BURLIE DEVELOPMENT
759 MAPLE AVENUE
BURLINGTON, ONTARIO L7S 2K1

SHEET TITLE:
TREE PROTECTION DETAILS & NOTES

SCALE:	AS SHOWN
DRAWN BY:	AN
CHECKED BY:	AN/HS
DATE:	2024-09-25
SDG FILE NO:	23-096

SHEET NO: TP-2

File Path: W:\Projects\23023\23-096 - 759 Maple Ave\Drawings\CAD\23-096_LANDSCAPE PLANS.dwg Plotted By: Allison Neuhauser Plot Date: 9/25/2024 3:01 PM Page Size: ANSI B (B.50 x 17.00 inches)



1 LANDSCAPE SITE PLAN

SCALE 1:100

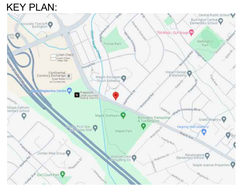
PLANT LIST										
Sym	Qty	Botanical Name	Common Name	Cal. (mm)	Ht. (cm)	Root	Spacing	Remarks	Native	Pollinator	Drought Tol.
DECIDUOUS TREES											
BP	6	*Betula pendula 'Fastigiata'*	Pyramidal European Birch	60mm		WB	As shown	full vigorous specimen	No	No	Yes
EVERGREEN TREES											
CN	2	*Chamaecyparis nootkatensis 'Pendula'*	Weeping Nootka Falsecypress		150cm	WB	As shown	full vigorous specimen	No	No	Yes
PP	4	*Picea pungens 'Iseli Fastigiate'*	Iseli Columnar Blue Spruce		150cm	B+B	As shown	full vigorous specimen	No	No	Yes
DECIDUOUS SHRUBS											
Pfg	12	*Potentilla fruticosa 'Goldstar'*	Goldstar Cinquefoil		40cm	3 gal.	As shown	full vigorous specimen	No	Yes	Yes
Acr	6	*Amelanchier canadensis 'Rainbow Pillar' (Glenn Form'*	Rainbow Pillar Serviceberry		200cm	WB	As shown	full vigorous specimen	No	No	Yes
EVERGREEN SHRUBS											
Jhp	11	*Juniperus chinensis 'Paul's Gold'*	Paul's Gold Juniper		40cm	3 gal.	As shown	full vigorous specimen	No	No	Yes
PERENNIALS											
aca	9	*Anemone canadensis*	Canada Anemone			1 gal.	As shown	full vigorous specimen	Yes	Yes	Yes
lsp	19	*Liatris spicata*	Dense Blazing Star			1 gal.	As shown	full vigorous specimen	Yes	Yes	Yes
ssa	13	*Sedum spectabile 'Autumn Fire'*	Showy Stonecrop			1 gal.	As shown	full vigorous specimen	No	Yes	Yes
ORNAMENTAL GRASSES:											
ssc	22	*Schizachyrium scoparium*	Little Bluestem			1 gal.	As shown	full vigorous specimen	Yes	No	Yes
fgb	10	*Festuca glauca 'Blue Whiskers'*	Blue Whiskers Fescue			1 gal.	As shown	full vigorous specimen	No	No	Yes
sni	23	*Sorghastrum nutans 'Indian Steel'*	Indian Steel Grass			1 gal.	As shown	full vigorous specimen	No	No	Yes

2 PLANT LIST

SOIL AREA	SOIL AREA (m2)	AV. SOIL DEPTH (m2)	SOIL VOLUME (m3)	TREES PROVIDED	VOLUME PER TREE (m3)	IRRIGATION PROVIDED (yes/no)
1	253	1.5	379	12	32	NO
		Total Soil Volume (m3)	379	12		

3 SOIL VOLUME CHART

KEY PLAN:



LEGEND

LIMITS
- PROPERTY LINE
- CONSTRUCTION FENCE
- TPZ - SOLID HOARDING
- WOOD PRIVACY FENCE
- BUILDING OVERHANG

SURFACES & SITE FURNITURE
- CONCRETE
- ASPHALT
- PERGOLA WITH SEATING

PLANTING
- EXISTING TREES TO REMAIN
- EXISTING TREE TO BE REMOVED
- PROPOSED DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED MULTISTEM TREE
- PROPOSED SHRUBS
- SOD
- PERENNIALS (REFER TO PLANTING PLAN)
- PERENNIALS (REFER TO PLANTING PLAN)

0 1 2 3 4 5
SCALE 1:100

PROJECT TEAM

CLIENT
GRANT BURLIE

LANDSCAPE ARCHITECT:
SEFERIAN DESIGN GROUP LTD.

ARCHITECT
STRUCTURED CREATIONS INC.

CIVIL ENGINEER
ARCADIS

PLANNING
ARCADIS

ENVIRONMENTAL
ARCADIS

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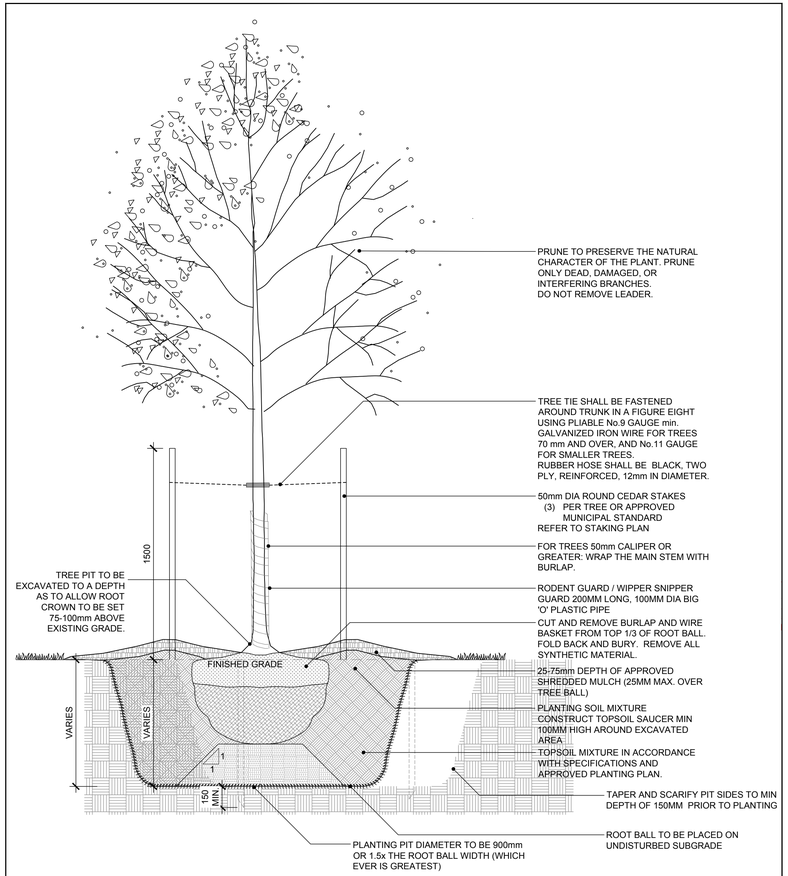
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PROJECT:
BURLIE TOWNHOME
BURLIE DEVELOPMENT
759 MAPLE AVENUE
BURLINGTON, ONTARIO L7S 2K1

SHEET TITLE:
LANDSCAPE SITE PLAN

SCALE: AS SHOWN
DRAWN BY: AN
CHECKED BY: HS
DATE: 2024-09-25
SDG FILE NO: 23-096
SHEET NO: L-1

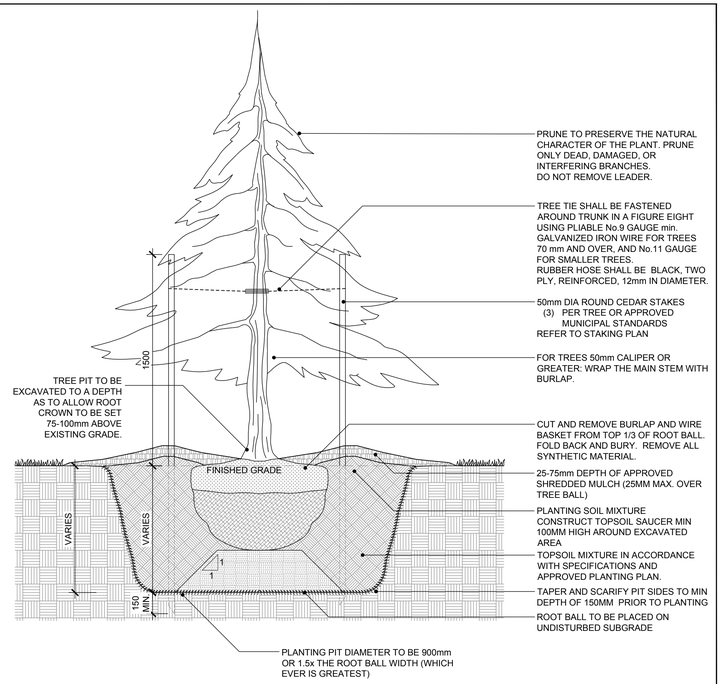
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NOTES:

1. NO PLANT SUBSTITUTIONS WILL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. PLANT IDENTIFICATION TAGS FOR ALL PLANT MATERIAL ARE TO REMAIN ON MATERIAL UNTIL INSPECTED. PRUNE OUT AND TREAT BROKEN, DISEASED, AND WEAK BRANCHES. RETAIN NORMAL SHAPE OF TREE.
2. TREES AND SHRUBS SHALL BEAR SAME RELATION TO FINISHED GRADE AS THEY BORE TO PREVIOUS EXISTING GRADE.
3. ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. ALL TREES TO BE SET PLUMB, LEVEL, AND TRUE TO LINE IN PLANTING PIT.
5. DO NOT DAMAGE ROOT BALL WHEN INSTALLING STAKES AND REMOVE ALL DEBRIS AND CONTAMINATED SOIL FROM PLANTING SPACE PRIOR TO PLANTING.
6. DO NOT DROP, BREAK, CRACK OR COMPACT ROOT BALL.
7. ALL TREES TO BE PLACED SO THAT ROOT COLLAR IS POSITIONED 75-100mm HIGHER THAN SURROUNDING GRADE.
8. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS OTHERWISE SHOWN.
9. REMOVE NURSERY TRUNK WRAP FROM TRUNK AND INSPECT FOR DAMAGE.

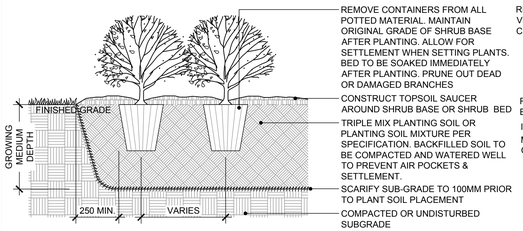
1 DECIDUOUS TREE 1:20



NOTES:

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2 CONIFEROUS TREE 1:20

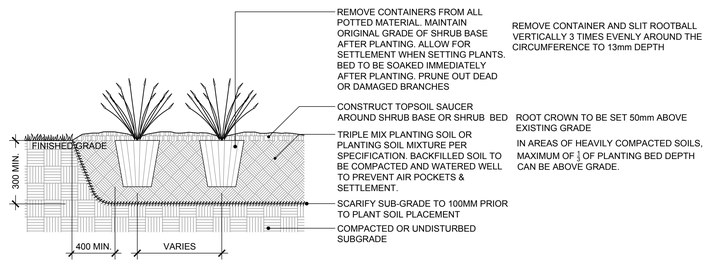


SITUATE SHRUBS IN PLANTING PIT SO THAT BEST PLANT SIDE IS TOWARD DESIRED VIEW.

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2. PLANTING METHOD ILLUSTRATED, SHALL APPLY EQUALLY TO BARE ROOT STOCK AND BALLED STOCK.
3. REMOVE CONTAINER AND MAINTAIN SOIL BALL INTACT. CONTAINER TO BE CUT CAREFULLY AWAY FROM ROOT SYSTEM SO AS NOT DISTURB SOIL BALL.
4. SET SHRUBS 50 mm HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
5. SHRUBS PLANTED IN GROUPS SHALL BE SET IN CONTINUOUS BEDS.
6. THE ABOVE DETAIL DOES NOT REPRESENT ANY PARTICULAR SPECIES.
7. PRUNE PLANTS TO REMOVE DEAD OR INJURED MEMBERS ONLY. MAINTAIN NATURAL CHARACTER AND SHAPE OF THE SPECIES
8. MINIMUM GROWING MEDIUM SOIL DEPTH:
   8.1. SHRUBS - 600mm
9. THIS DETAIL IS TO BE USED IN CONJUNCTION WITH SPECIFICATION

3 SHRUB PLANTING 1:20



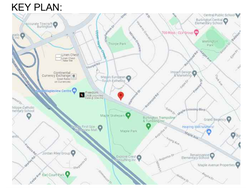
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7. PRUNE PLANTS TO REMOVE DEAD OR INJURED MEMBERS ONLY. MAINTAIN NATURAL CHARACTER AND SHAPE OF THE SPECIES
8. MINIMUM GROWING MEDIUM SOIL DEPTH:
   8.1. PERENNIALS - 300mm
   8.2. ORNAMENTAL GRASSES - 300mm
9. THIS DETAIL IS TO BE USED IN CONJUNCTION WITH SPECIFICATION

4 PERENNIAL AND ORNAMENTAL GRASSES PLANTING 1:20

KEY PLAN:



LEGEND

LIMITS
- PROPERTY LINE
- CONSTRUCTION FENCE
- TPZ - SOLID HOARDING
- WOOD PRIVACY FENCE
- BUILDING OVERHANG

SURFACES & SITE FURNITURE
- CONCRETE
- ASPHALT
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- PERENNIALS (REFER TO PLANTING PLAN)

PROJECT TEAM

CLIENT
GRANT BURLIE

LANDSCAPE ARCHITECT:
SEFERIAN DESIGN GROUP LTD.

ARCHITECT
STRUCTURED CREATIONS INC.

CIVIL ENGINEER
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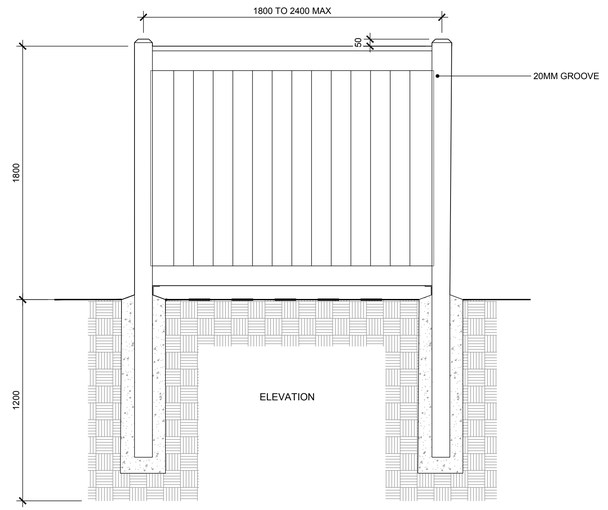
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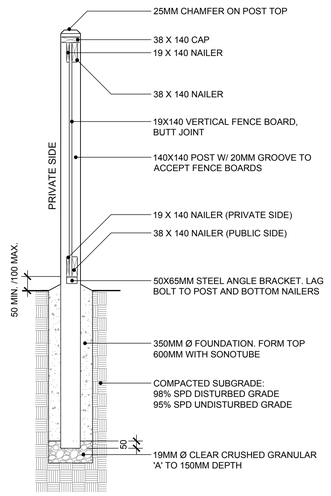
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CHECKED BY:	HS
DATE:	2024-09-25
SDG FILE NO:	23-096

SHEET NO: LD-1

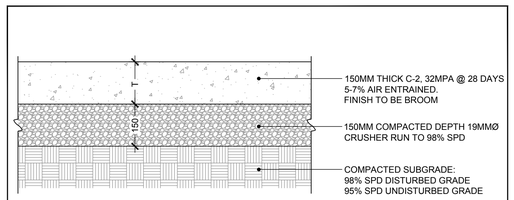
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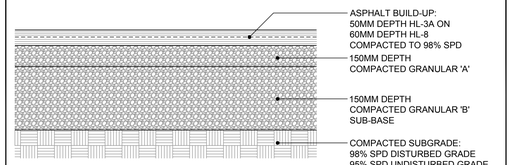
TYPICAL WOOD NOTES:
1. ALL MATERIALS, COMPONENTS AND WORKMANSHIP TO CONFORM TO BUILDING CODE AND LOCAL BY-LAWS.
2. ALL WOOD TO BE PRESSURE TREATED PINE. ALL MEMBERS SHALL BE FREE OF WANE AND BARK POCKETS. ALL TORN GRAIN SHALL BE ELIMINATED BY SANDING AND PLANING. MEMBER EXHIBITING MODERATE TO HEAVY KNOTS SHALL BE WELL DISTRIBUTED THROUGHOUT THE SITE INSTALLATION. PANEL MEMBERS SHALL BE SELECT PRESSURE TREATED PINE (NLGA 101A).
3. POSTS, BEAMS, AND BRACES TO BE PRESSURE TREATED PINE.
4. ALL WOOD SHALL BEAR THE LUMBER GRADING STAMP.
5. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% AT THE TIME OF CONSTRUCTION.
6. STAIN ALL EXPOSED FENCE MATERIAL WITH HIGH GRADE QUALITY EXTERIOR STAIN, 2 COATS OF SOLID STAIN. COLOUR TO BE SELECTED BY LANDSCAPE ARCHITECT.
7. USE A SUFFICIENT QUANTITY OF FASTENERS TO PROVIDE A SECURE, RIGID STRUCTURE.
8. ALL FASTENERS AND HARDWARE TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
9. NAILS SHALL BE GALVANIZED ARDOX CONFORMING TO CSA STANDARD BILL.
10. ALL GALVANIZING TO BE HOT DIPPED IN CONFORMANCE WITH CAN / CSA G164-M92.
11. DRIVE ALL NAIL HEADS BELOW SURFACE OF WOOD. USE SUFFICIENT SIZE AND QUANTITY OF NAILS TO ENSURE A STABLE, SECURE STRUCTURE.
12. STEP FENCE PANELS MAXIMUM OF 100MM AT POSTS AS REQUIRED BY GRADE CONDITIONS. SLOPING OF PANELS MAY BE REQUIRED FOR CERTAIN GRADE CONDITIONS. FOR FENCE SITUATED ALONG >5%, BOTTOM NAILER BOARD TO RUN PARALLEL WITH GRADE. OBTAIN CONSULTANT'S APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.
13. ALL LUMBER SIZES ARE ACTUAL SIZES RATHER THAN NOMINAL SIZES.
14. SECTION OF POST IMBEDDED IN CONCRETE FOOTING TO BE DIPPED IN CREOSOTE.
15. CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 25 MPA @ 28 DAYS WITH 5-7% AIR ENTERTAINMENT.
16. CONTRACTOR TO SUPPLY DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION
17. SEE LAYOUT AND GRADING PLAN FOR FENCE LOCATION.

1 | WOOD PRIVACY FENCE
1.8m SOUND BARRIER | 1:20



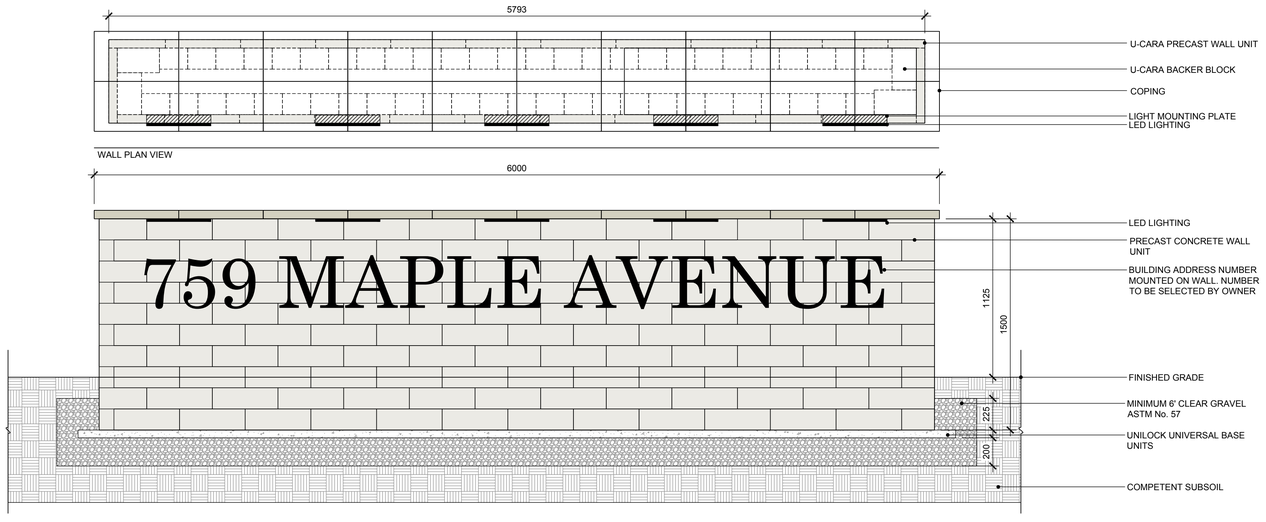
NOTES:
1. CONCRETE THICKNESS (T):
   1.1. 150MM: PEDESTRIAN STANDARD DUTY

2 | STANDARD CONCRETE
PEDESTRIAN GRADE | 1:10



1. CONTRACTOR TO PROVIDE COMPACTION TESTING TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVING INSTALLATION.
2. SUBMIT ASPHALT MIX DESIGN AND TRIAL MIX TEST RESULTS TO ENGINEER FOR APPROVAL.
3. PROOF ROLLING OF SUBGRADE SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
4. PLACE GRANULAR BASE TO COMPACTED THICKNESS AS INDICATED. DO NOT PLACE FROZEN MATERIAL.
5. PROOF ROLLING OF AGGREGATE BASE PRIOR TO PLACEMENT OF ASPHALT SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
6. ASPHALT MATERIALS SHALL BE ROLLED AND COMPACTED TO A MINIMUM OF 97% MRD.
7. NO PAVING WILL BE ALLOWED DURING RAIN OR ON WET SUBGRADE AFTER RAIN.

3 | STANDARD ASPHALT
VEHICULAR GRADE | 1:10



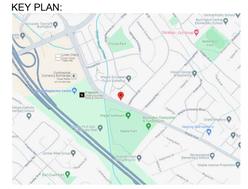
WALL PLAN VIEW

WALL ELEVATION

NOTES:
1. PRECAST WALL UNIT, OR APPROVED EQUAL.
   1.1. MANUFACTURER: UNILOCK
   1.2. PRECAST WALL UNIT: U-CARA FASCIA WITH SURETRACK BACKER BLOCK
   1.3. SIZE 1: 466MM X 60MM X 150MM- STANDARD
   1.3. SIZE 2: 530MM X 60MM X 150MM- 2 UNIT RANDOM
   1.4. SIZE 3: 233MM X 60MM X 150MM- 2 UNIT RANDOM
   1.5. PATTERN: 1/2 RUNNING BOND
   1.6. COLOUR: OPAL BLEND
   1.7. FINISH: SMOOTH
   1.8. PREMIER
2. COPING, OR APPROVED EQUAL.
   1.1. MANUFACTURER: UNILOCK
   1.2. PRODUCT: UMBRIANO COPING
   1.3. SIZE: 600MM X 355MM X 60MM - COPING
   1.4. COLOUR: WINTER MARVEL.
   1.5. CHAMFERED EDGE
3. WALL LIGHTING
   1.1. MANUFACTURER: KICHLER LANDSCAPE LIGHTING
   1.2. PRODUCT: LANDSCAPE LED HARDSCAPE LIGHT
   1.3. MODEL: 16103GRY27
   1.4. COLOUR: GREY

4 | ENTRANCE WALL WITH ADDRESS | 1:20

KEY PLAN:



LEGEND

LIMITS
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- PERENNIALS (REFER TO PLANTING PLAN)
- PERENNIALS (REFER TO PLANTING PLAN)

PROJECT TEAM

CLIENT **GRANT BURLIE**	LANDSCAPE ARCHITECT: **SEFERIAN DESIGN GROUP LTD.**
ARCHITECT **STRUCTURED CREATIONS INC.**	CIVIL ENGINEER **ARCADIS**
PLANNING **ARCADIS**	ENVIRONMENTAL **ARCADIS**

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PROJECT:
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SHEET TITLE:
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SHEET NO:	LD-2

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