

Legend

- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- EXISTING VEGETATION GROUP
- TREE IDENTIFICATION KEY
- EXISTING TREE TO BE REMOVED
- PROPOSED TEMPORARY TREE PROTECTION FENCE
REFER TO DETAIL 1/L300
- PROPOSED DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED DECIDUOUS SHRUBS
- PROPOSED PERENNIALS, FERNS, AND ORNAMENTAL GRASSES
- PROPOSED PLANTING BED
- PROPOSED UNIT PAVING
REFER TO DETAIL 7/L300
- PROPOSED RIVERWASHED STONES
REFER TO DETAIL 6/L300
- PROPERTY LINE

Notes

- TOPOGRAPHIC SURVEY AND BENCHMARK COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED NOVEMBER 21, 2018.
- SITE PLAN PREPARED BY SUSAN D. SMITH ARCHITECT DATED DECEMBER, 2018

3	REVISIONS PER CITY COMMENTS	CTL	CTL	2019.08.14
2	REVISED AS PER COMMENTS	GM	ILL	19.05.31
1	ISSUED FOR SITE PLAN REVIEW	ILL	ILL	19.02.22

Revision	By	Appd.	YY.MM.DD
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File Name:	160401462_LB	ILL	ILL	ILL	19.02.11
		Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal



Client/Project

ART CONSTRUCTION
SUITE 101 - 11 ROSEMOUNT AVE.

3 STOREY APARTMENT
13 MONK STREET
OTTAWA, ONTARIO

Title

TREE PRESERVATION PLAN
AND LANDSCAPE PLAN

Project No.	160401462	Scale	0 1 3 5m 1:100
Drawing No.		Sheet	Revision

L100

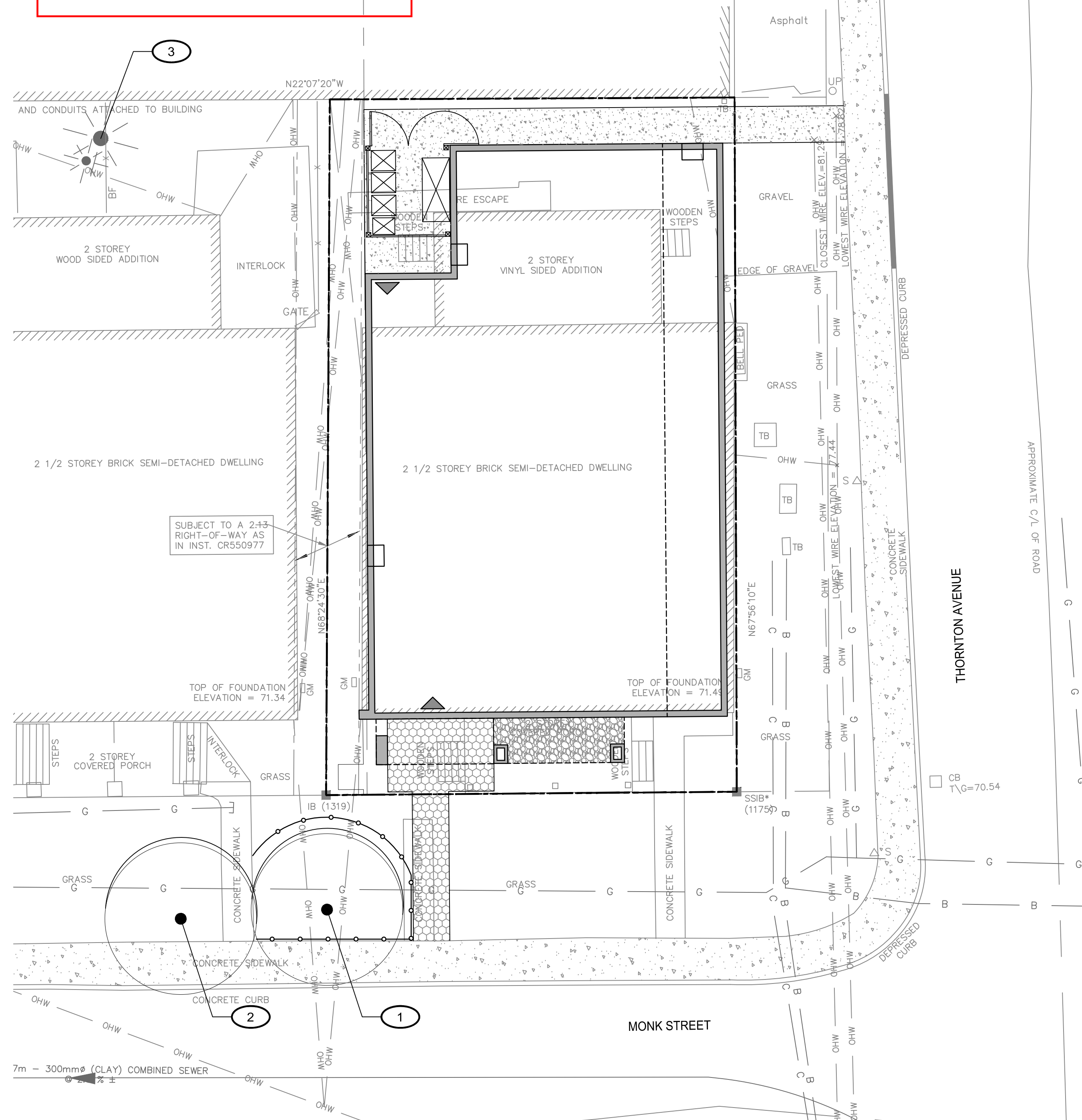
1 of 2

3

DWG# 17906

DOUGLAS JAMES, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW - CENTRAL
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Jamesdo at 2:37 pm, Aug 20, 2019

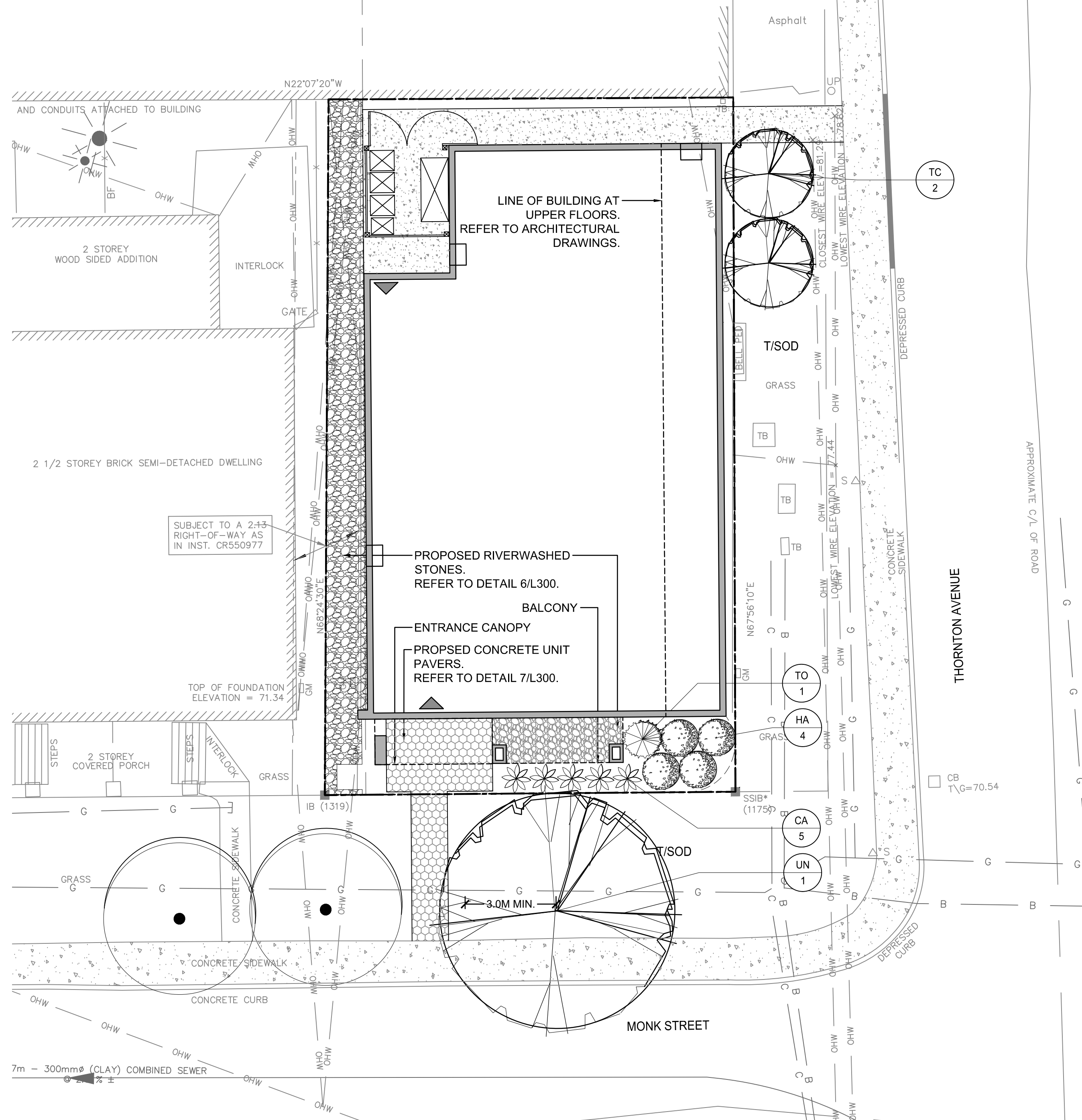


1 TREE PRESERVATION PLAN
1:100

EXISTING VEGETATION SCHEDULE

TREE ASSESSMENT CONDUCTED: February 11, 2019

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (cm)	HEALTH/ CONDITION	REMARKS
1	Acer platanoides	Norway Maple	30	Good	Street tree in line with property line between 13 Monk Street and 11 Monk Street; Red leaves (based on streetView images by Google.ca) TO BE PROTECTED - CONTRACTOR TO TUNNEL OR BORE WITHIN THE CRITICAL ROOT ZONE INSTEAD OF CREATING A TRENCH.
2	Fagus sylvatica	European Beech	30	Good	Street tree for 11 Monk Street; Red leaves (based on streetView images by Google.ca); Located outside of limit of work and not impacted by development of 13/15 Monk Street; TO BE RETAINED.
3	Thuja occidentalis	Eastern White Cedar	25	Good	Backyard tree behind 11 Monk and 9 Monk Street; Located outside of limit of work and not impacted by development of 13/15 Monk Street.



2 LANDSCAPE PLAN
1:100

PLANT LIST

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES - REFER TO DETAIL 2/L300					
2	TC	Tilia cordata 'Summer Sprite'	Summer Sprite Linden	60 mm (cal.)	W.B.
1	UN	Ulmus x 'New Horizon'	New Horizon Elm	60 mm (cal.)	W.B.
CONIFEROUS SMALL TREES - REFER TO DETAIL 3/L300					
1	TO	Thuja occidentalis 'Emerald'	Emerald Cedar	1750 mm (ht)	B.B.C.
DECIDUOUS SHRUBS - REFER TO DETAIL 4/L300					
4	HA	Hydrangea arborescens 'Invincible Ruby'	Invincible Ruby Hydrangea	2 Gallon	Potted; Plant at 1200 mm o/c
PERENNIALS / ORNAMENTAL GRASSES - REFER TO DETAIL 5/L300					
5	CA	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Grass	1 Gallon	Potted; Plant at 950 mm o/c

TREE PRESERVATION NOTES

1. NO VEGETATION SHALL BE REMOVED WITHOUT MUNICIPAL WRITTEN APPROVAL.
2. LOCATION OF EXISTING TREES IS FOR REFERENCE ONLY AND SHALL BE CONFIRMED BY AN ARBORIST AND SURVEYOR.
3. NO VEGETATION REMOVAL SHALL OCCUR BETWEEN APRIL 15 AND AUGUST 15 OF ANY YEAR TO PROTECT BREEDING MIGRATORY BIRDS, AS WELL AS AT RISK BAT SPECIES. SHALL TREE REMOVAL DURING THIS PERIOD BY UNAVOIDABLE. THE CONTRACTOR IS REQUIRED TO CONDUCT A NESTING SURVEY BY A REGISTERED PROFESSIONAL AVIAN BIOLOGIST TO IDENTIFY AND ENSURE NO NESTING ACTIVITIES ARE PRESENT. TREE REMOVAL WILL BE ALLOWED WITHIN FIVE (5) DAYS OF CONDUCTING THE SURVEY.
4. CONTRACTOR SHALL ENSURE THE PROTECTION OF MATURE TREES IDENTIFIED TO BE RETAINED. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE CRITICAL ROOT ZONE (CRZ) OF TREES WHERE THE CRZ IS ESTABLISHED AS BEING 10 CENTIMETRES FROM THE TRUNK OF A TREE FOR EVERY CENTIMETRE OF TRUNK DIAMETER AT BREAST HEIGHT (DBH). THE CRZ IS CALCULATED AS DBH X 10 CM. TREE PROTECTION FENCING SHALL BE INSTALLED AS SPECIFIED.
5. DURING EXCAVATION EQUIPMENT MUST BE MAINTAINED WITHIN THE CONFINES OF THE WORK AREA SO AS NOT TO DISRUPT ANY TURF OR TREE ROOTS UNNECESSARILY. DO NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE TO BE RETAINED.
6. DO NOT RAISE OR LOWER THE EXISTING GRADE WITHIN THE CRZ WITHOUT APPROVAL
7. ALL EXCAVATED MATERIAL, INCLUDING IMPORTED MATERIAL, MUST BE REMOVED IMMEDIATELY AND NOT PLACED ON GRASS OR NEAR TREES IN ORDER TO PREVENT ROOT DAMAGE, ACCIDENTAL HITTING OF ADJACENT TREES, AND TURF DAMAGE OUTSIDE OF WORK AREA.
8. CONTRACTOR SHALL MINIMIZE SOIL COMPACTION BY KEEPING OPERATION OF MACHINERY AND EQUIPMENT CONFINED TO DESIGNATED WORK AREA.
9. DO NOT ATTACH ANY SIGNS, NOTICES, OR POSTERS TO ANY TREES
10. CONTRACTOR SHALL KEEP A SPILL KIT ON SITE.
11. CONTRACTOR SHALL DEVELOP AN EMERGENCY RESPONSE PLAN.
12. CONTRACTOR SHALL AVOID SOIL CONTAMINATION AND FUTURE LIABILITY BY CONFINING THE OILING AND REFUELING OF MACHINERY AND EQUIPMENT TO DESIGNATED STAGING AREA.
13. NO FUEL IS TO BE STORED WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE AND EXHAUST FUMES FROM ALL EQUIPMENT MUST NOT BE DIRECTED TOWARDS ANY TREE'S CANOPY.
14. CONTRACTOR SHALL PREVENT ANY DAMAGE TO THE ROOT SYSTEM, TRUNK OR BRANCHES OF ANY TREES TO BE RETAINED ON SITE AND ON ADJACENT PROPERTIES.
15. STORAGE OF EQUIPMENT AND VEHICLES WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES IS STRICTLY PROHIBITED.
16. WHERE LIMBS OR PORTIONS OF TREES ARE REMOVED TO ACCOMMODATE CONSTRUCTION WORK, THEY WILL BE REMOVED CAREFULLY IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES.
17. WHERE NECESSARY, THE TREES WILL BE GIVEN AN OVERALL PRUNING TO RESTORE THEIR APPEARANCE. NOT MORE THAN ONE THIRD OF THE TOTAL BRANCHING SHALL BE REMOVED DURING A SINGLE OPERATION. THE SERVICES OF A CERTIFIED ARBORIST SHALL BE RETAINED FOR THIS TASK.

WORK WITHIN PROTECTED AREAS

1. EXCAVATION WORK:
- TO ENSURE THE ROOTS ARE NOT DISTURBED MORE THAN NECESSARY AND WHERE EXCAVATION WORKS ARE UNAVOIDABLE WITHIN THE CRZ OF TREES, THE FOLLOWING MITIGATION MEASURES SHALL BE USED:
 - BALL EXCAVATION WITHIN THE CRZ OF TREES SHALL BE BY HAND OR HYDRO EXCAVATION USING THE SMALLEST TOOLS. ROOT CUTTING SHALL BE MADE USING A SHARP SPADE OR KNIFE AT THE LIMIT OF DISTURBANCE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 - THE CONTRACTOR SHALL ONLY TUNNEL OR BORE WITHIN THE CRZ, INSTEAD OF CREATING A TRENCH.
 - ANY ROOTS THAT ARE EXPOSED BY CONSTRUCTION ACTIVITIES MUST BE COVERED WITH NATIVE TOPSOIL IMMEDIATELY, TO ENSURE THAT THE ROOTS DO NOT DRY OUT OR HAVE ANY FURTHER DAMAGE OCCUR TO THEM.
- IN ALL THOSE INSTANCES WHERE ROOT PRUNING IS REQUIRED, THE SERVICE OF A CERTIFIED ARBORIST OR QUALIFIED TREE WORKER UNDER THE SUPERVISION OF A CERTIFIED ARBORIST SHALL BE RETAINED. IN ADDITION, ALL REMEDIAL WORKS MUST BE CONDUCTED BY A CERTIFIED CARE PROFESSIONAL TO ENSURE PROPER CARE IS ADMINISTERED IN ORDER TO ENABLE THE CONTINUED HEALTH OF THE TREES.
2. GRADING WORK
- WHERE RE-GRADING IS REQUIRED WITHIN THE CRZ, IT SHOULD BE PERFORMED BY HAND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.

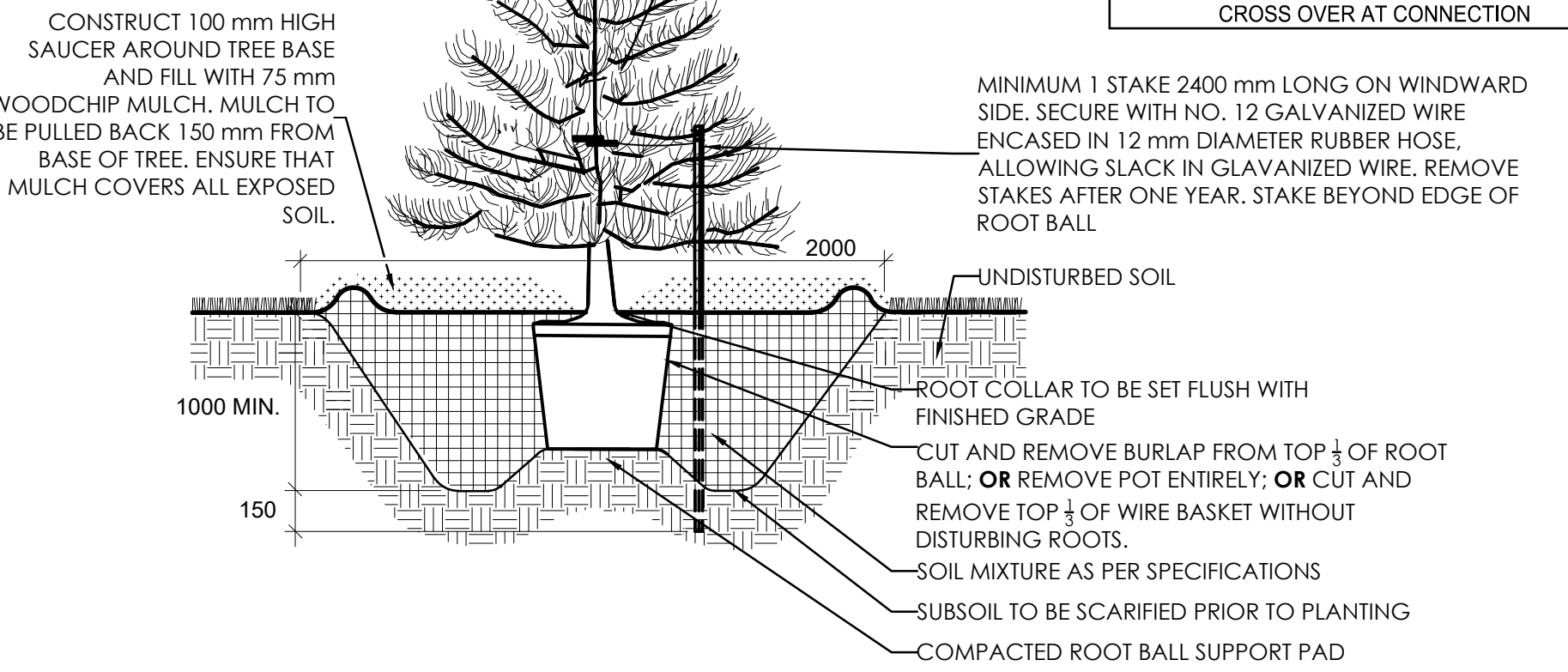
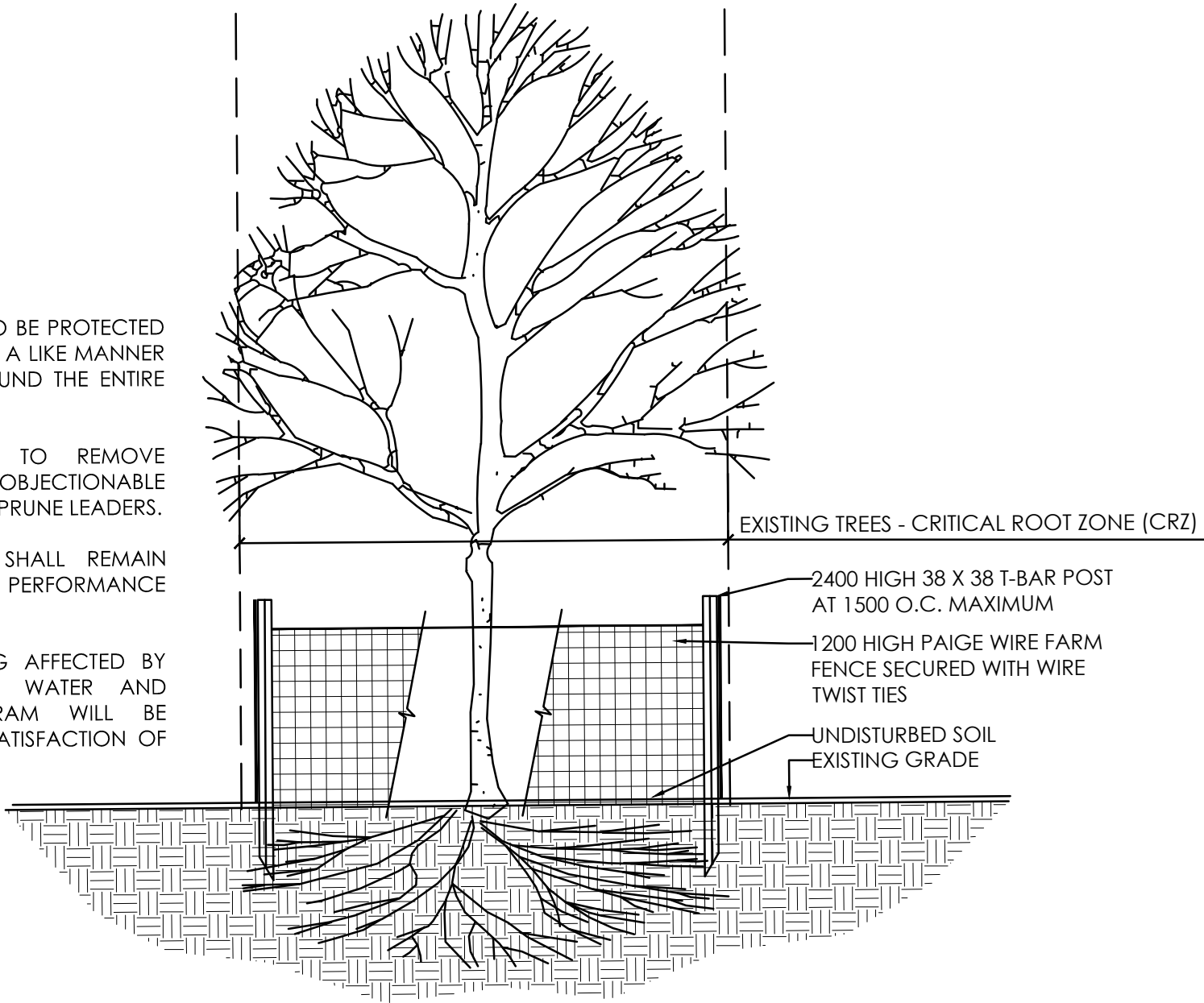
LANDSCAPE PLAN NOTES

1. REFER TO ENGINEERING DRAWINGS FOR PROPOSED GRADING.
2. REFER TO ENGINEERING DRAWINGS FOR PROPOSED SITE SERVICING.
3. EXISTING VEGETATED AREAS ON ADJACENT PROPERTIES SHALL REMAIN AND BE PROTECTED BEFORE, DURING, AND AFTER CONSTRUCTION.
4. SOD SHALL BE KENTUCKY BLUEGRASS SOD INSTALLED OVER 135mm OF TOPSOIL. SOD SHALL BE INSTALLED THROUGHOUT WITHIN LIMIT OF WORK AND IN ALL DISTURBED AREAS OUTSIDE THE LIMIT OF WORK EXCEPT WHERE INDICATED. SOD SHALL BE INSTALLED AS PER OPSS 803.
5. CONTRACTOR TO LOCATE AND STAKE ALL UTILITIES PRIOR TO ANY WORK ON THE SITE. DO NOT PLANT DIRECTLY ABOVE UNDERGROUND UTILITIES. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR DIRECTION.
6. NO TREES SHALL BE PLANTED UNDER OVERHEAD WIRES.
7. THE LANDSCAPE ARCHITECT MAY ADJUST THE LOCATION OF PLANTING PRIOR TO PLANTING TO MINIMIZE CONFLICTS WITH UTILITIES, DRIVEWAYS AND INTERSECTION VISIBILITY.
8. CONTRACTOR SHALL SUPPLY ALL MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE WORK SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT FOR DIRECTION.
9. DO NOT MAKE SUBSTITUTIONS OF MATERIALS, PRODUCTS OR QUANTITIES WITHOUT PRIOR WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.
10. THE CONTRACTOR TO MAKE GOOD TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT ANY AREAS DAMAGED BY THE WORK.
11. UPON THE COMPLETION OF WORK EACH DAY, REMOVE ALL DEBRIS, GARBAGE AND SURPLUS MATERIALS FROM THE SITE. KEEP THE SITE CLEAN AND USEABLE AT ALL TIMES.
12. ALL WORKMANSHIP AND MATERIALS (INCLUDING PLANTS) TO BE GUARANTEED FOR ONE FULL YEAR FOLLOWING FINAL ACCEPTANCE OF THE PROJECT BY THE LANDSCAPE ARCHITECT.
13. THE CONTRACTOR SHALL REMOVE ALL T-BAR AND WOODEN TREE STAKES PRIOR TO ASSUMPTION BY THE OWNER.
14. AT THE TIME OF INSPECTION FOR ACCEPTANCE ALL TREE PITS SHALL BE CULTIVATED, FREE OF WEEDS, LEAVES, BROKEN BRANCHES AND DEBRIS.

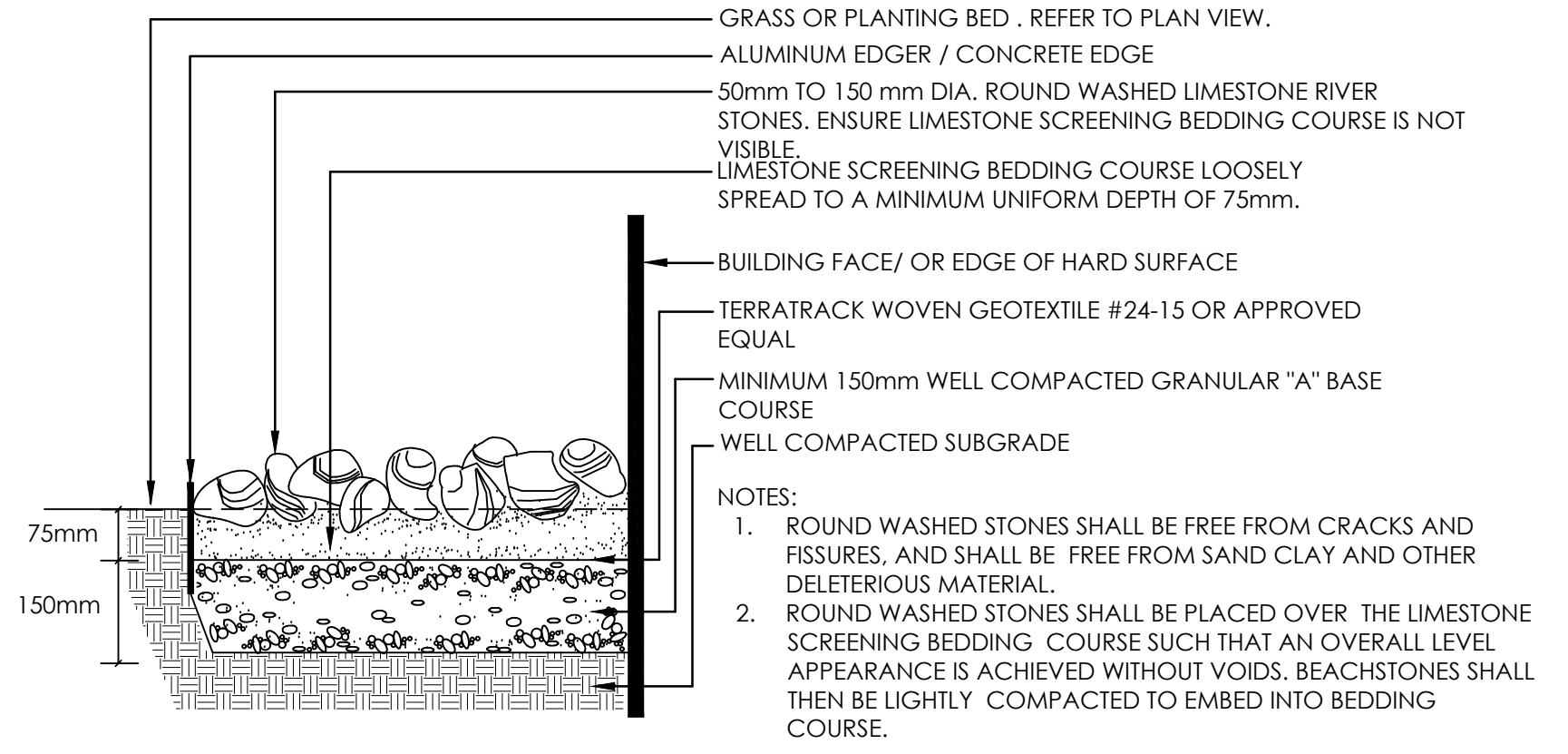
NOTES:

1. GROUPS OF TREES TO BE PROTECTED SHALL BE TREATED IN A LIKE MANNER WITH FENCING AROUND THE ENTIRE STAND(S).
2. PRUNE BRANCHES TO REMOVE DAMAGED OR OBJECTIONABLE BRANCHES. DO NOT PRUNE LEADERS.
3. TREE PROTECTION SHALL REMAIN UNTIL SUBSTANTIAL PERFORMANCE OF THE PROJECT.
4. IF TREES ARE BEING AFFECTED BY CONSTRUCTION, A WATER AND FERTILIZING PROGRAM WILL BE REQUIRED TO THE SATISFACTION OF THE CITY.

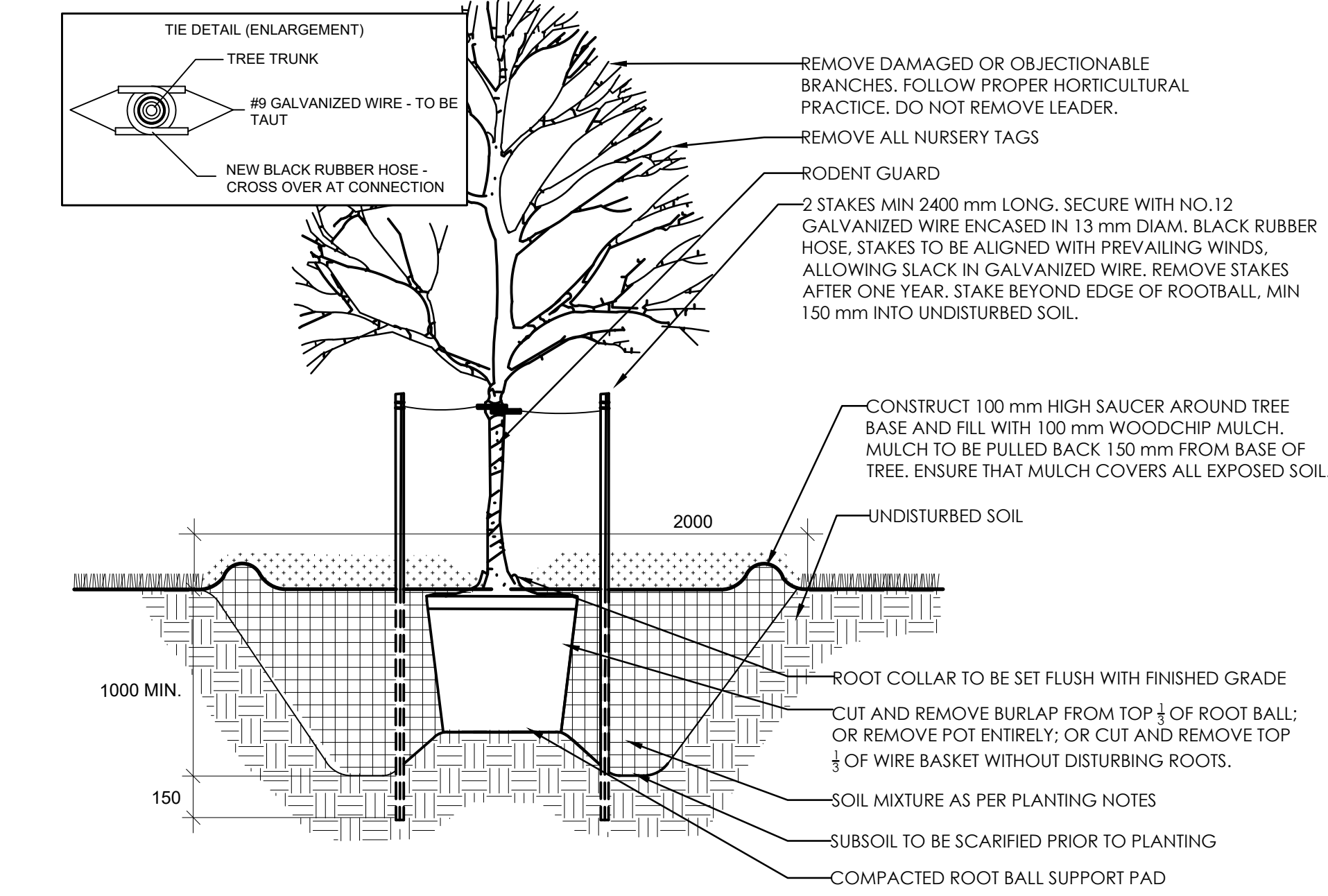
1 TEMPORARY TREE PROTECTION FENCE
N.T.S.



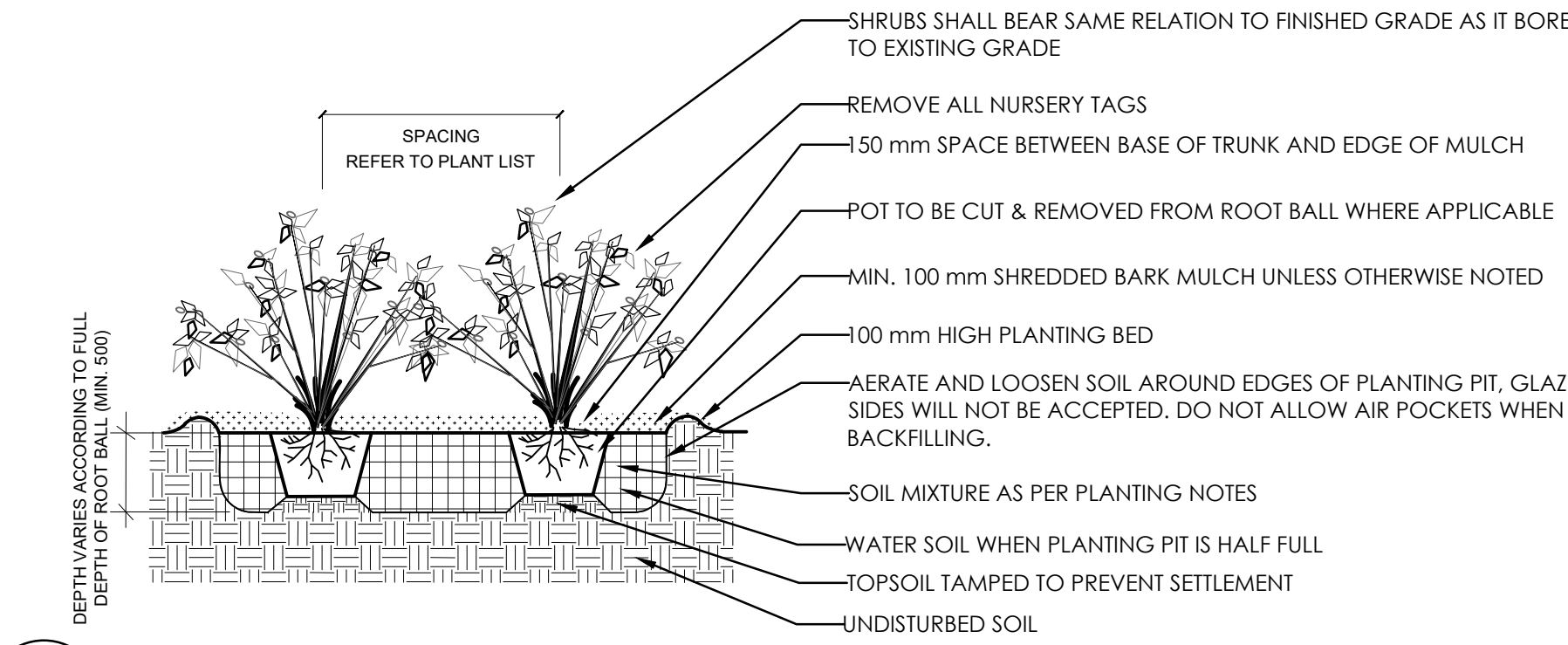
3 CONIFEROUS TREE PLANTING
N.T.S.



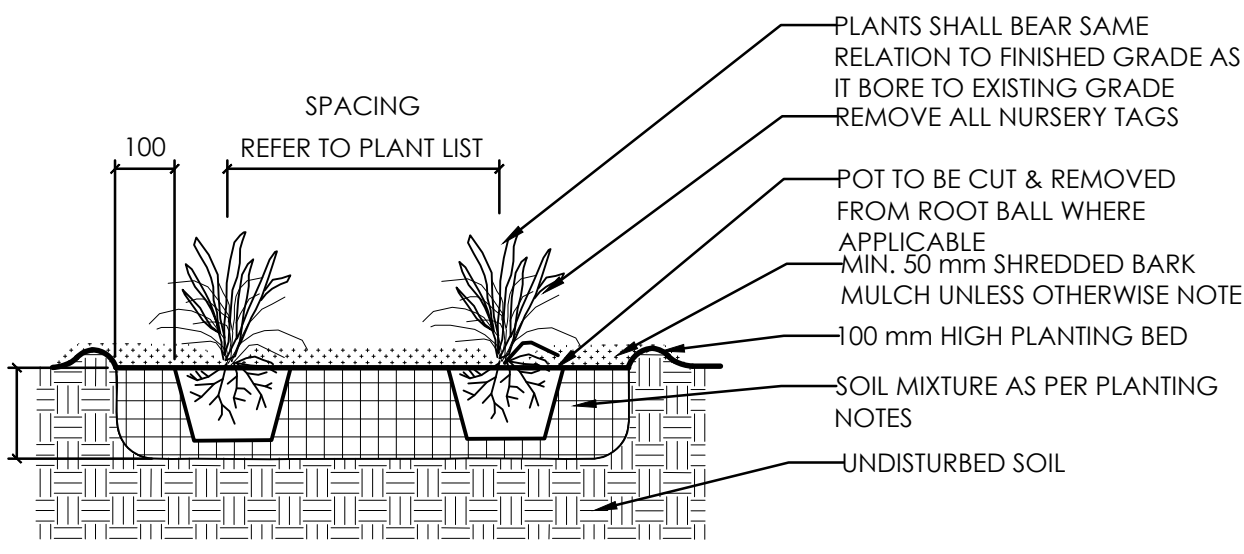
6 RIVERWASHED STONES
1:10



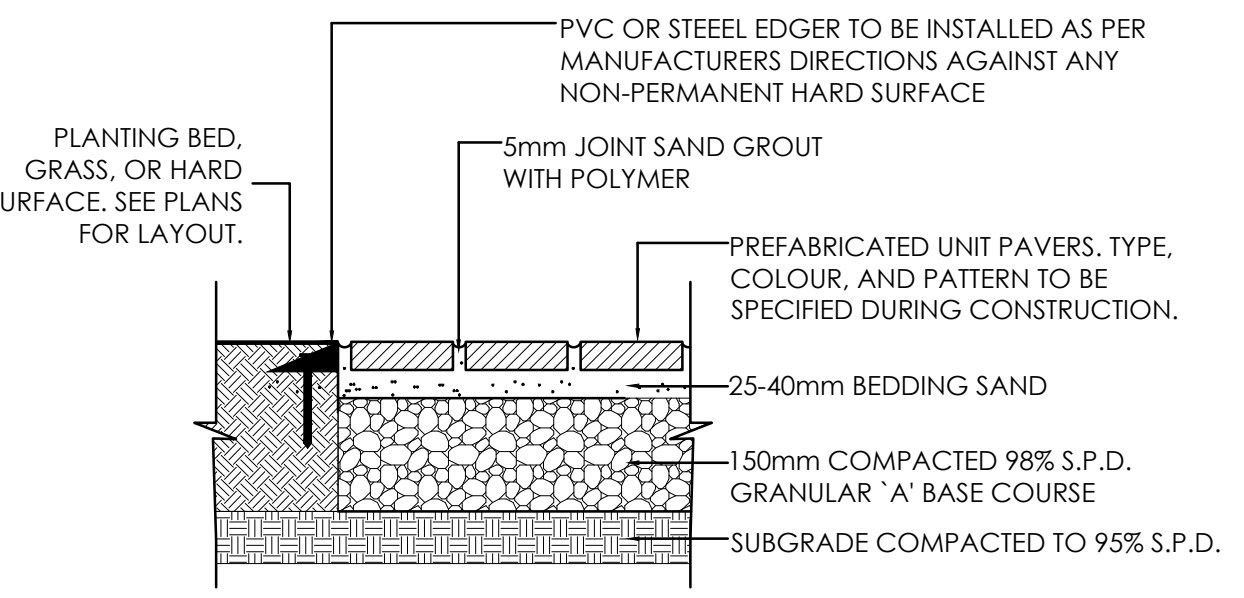
2 DECIDUOUS TREE PLANTING
N.T.S.



4 SHRUB PLANTING
N.T.S.



5 PERENNIAL AND GRASSES PLANTING
N.T.S.



7 UNIT PAVING DETAIL
1:10

PLANTING NOTES

1. THE DETAILS ON THIS SHEET DO NOT REPRESENT ANY PARTICULAR SPECIES.
2. TREES AND SHRUBS AS INDICATED IN THE DETAILS REPRESENT BOTH CONIFEROUS AND DECIDUOUS SPECIES.
3. MATERIAL PLANTED IN GROUP SHALL BE SET IN CONTINUOUS PLANTING BEDS.
4. CENTRE LINE OF SHRUBS SHALL NOT BE CLOSER THAN 2.4m FROM BUILDING FACE TO PROTECT BUILDING FOOTINGS AND INSULATION.
5. PRUNING - TO SUIT SPECIES - PRUNE BRANCHES BY 1/3 TO REMOVE DAMAGED OR OBJECTIONABLE BRANCHES FOLLOWING PROPER HORTICULTURAL PRACTICE. DO NOT PRUNE LEADERS.
6. FIRMLY COMPACT BACKFILLED PLANTING MIXTURE TO ELIMINATE AIR POCKETS OR PREVENT SETTLEMENT.
7. PLANTING MATERIAL QUALITY STANDARDS:
- ALL PLANT MATERIALS TO CONFORM TO THE CANADIAN NURSERY LANDSCAPE ASSOCIATION FOR VARIETY, SIZE AND CONDITION.
 - PLANT MATERIAL COLLECTED FROM WILD SOURCES WILL NOT BE ACCEPTED.
 - LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ACCEPTANCE OF ANY PLANT DISPLAYING POOR GROWTH HABITS, INJURY OR DISEASE.
 - ANY PLANTS THAT DO NOT CONFORM TO THE ABOVE STANDARDS WILL BE PROMPTLY REMOVED FROM THE SITE BY THE CONTRACTOR AND REPLACED WITH MATERIAL OF ACCEPTABLE QUALITY AT NO ADDITIONAL COST TO THE PROJECT.
8. TOPSOIL:
- SOIL TEXTURE BASED ON THE CANADIAN SYSTEM OF SOIL CLASSIFICATION TO CONSIST OF:
 - CLAY: 14-20%
 - SILT: 0-35%
 - SAND: 45-70%
 - ORGANIC MATERIAL: 4-10%
 - pH: 6-8
 - SPREAD TOPSOIL TO FOLLOWING MINIMUM DEPTHS AFTER SETTLEMENTS UNLESS OTHERWISE NOTED ON DETAILS:
 - 300mm FOR PERENNIALS
 - 500mm FOR SHRUB BEDS
 - 1000mm FOR TREE PLANTING

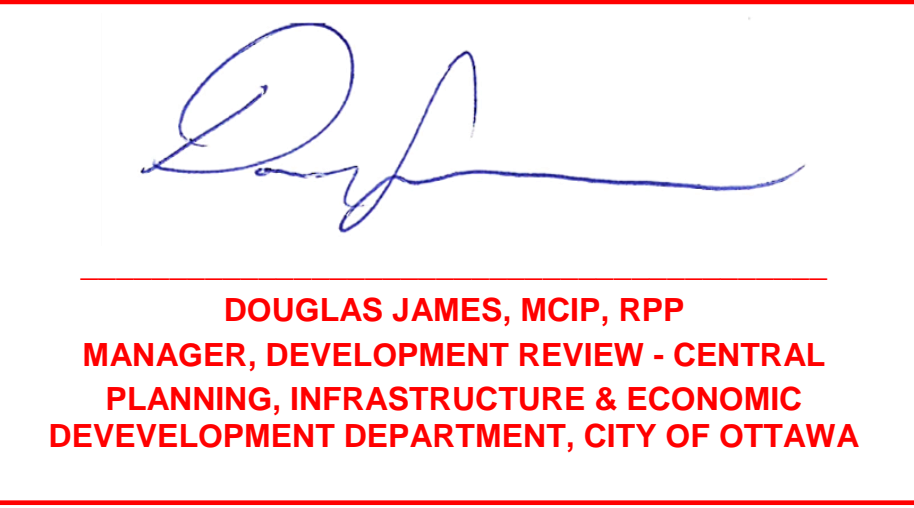


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APPROVED
By Jamesdo at 2:37 pm, Aug 20, 2019

Notes

1. TOPOGRAPHIC SURVEY AND BENCHMARK COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED NOVEMBER 21, 2018.
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3 STOREY APARTMENT
13 MONK STREET
OTTAWA, ONTARIO

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LANDSCAPE DETAILS AND NOTES

Project No.	Scale	Sheet	Revision
160401462	VARIES		
Drawing No.	Sheet	Revision	

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