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000 TREE IDENTIFICATION NUMBER

- ## Notes

1. REFER TO DRAWING L300 FOR TREE PRESERVATION NOTES AND DETAILS.

2	REISSUED FOR SPA	GM	ILL	20.02.24
1	ISSUED FOR SPA	CTL	ILL	20.02.20
Revision		By	Appd.	YY.MM.DD

File Name: 163601309-LB	CTL	ILL	ILL / CTL	20.02.18
	Dwn.	Chkd.	Dsan.	YY.MM.DD

Permit-Seal



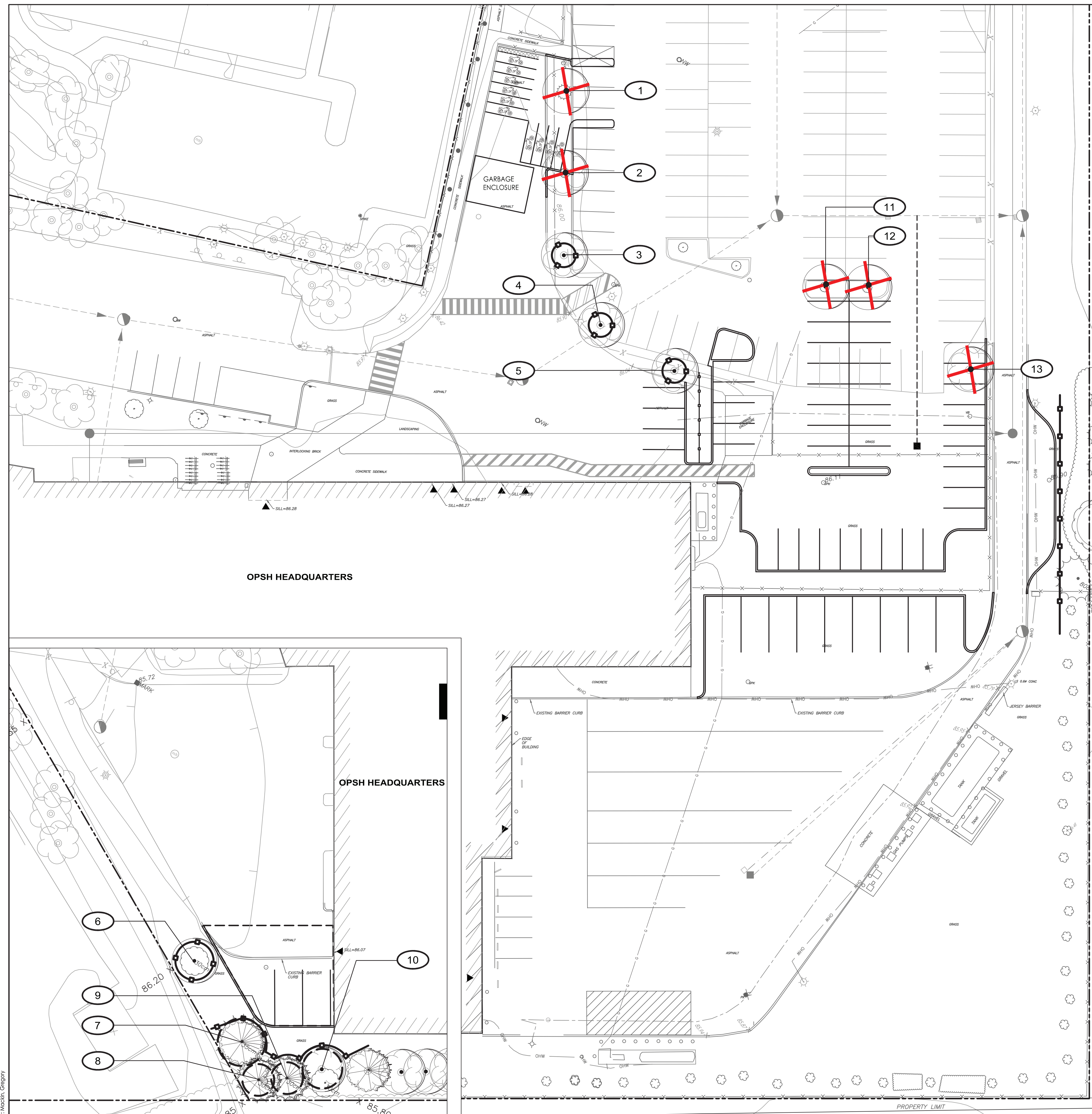
Client/Project
OPSH OTTAWA
2495 DON REID DRIVE

EXTERIOR PARKING LOT EXTENSION
OTTAWA, ONTARIO

Title
TREE PRESERVATION PLAN

Project No.	Scale	
163601309		
Drawing No.	Sheet	Revision

L100 1 of 3 2
DWG# XXXXX



KEY PLAN - N.T.S.

EXISTING VEGETATION SCHEDULE

TREE ASSESSMENT CONDUCTED: February 19, 2020

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (cm)	HEALTH/CONDITION	REMARKS
1	<i>Crataegus laevigata</i>	Hawthorn	9	Dead	TO BE REMOVED.
2	<i>Crataegus laevigata</i>	Hawthorn	12	Good	TO BE REMOVED.
3	<i>Crataegus laevigata</i>	Hawthorn	10	Good	TO BE RETAINED.
4	<i>Crataegus crus-galli</i>	Cocksbur Hawthorn	11	Good	TO BE RETAINED.
5	<i>Crataegus laevigata</i>	Hawthorn	10	Good	TO BE RETAINED.
6	<i>Tilia americana</i>	Basswood	24	Good	: TO BE PROTECTED.
7	<i>Picea pungens</i> 'Glaucu'	Colorado Blue Spruce	30	Good	Some dead branches on the lower part of the tree: TO BE PROTECTED.
8	<i>Picea pungens</i> 'Glaucu'	Colorado Blue Spruce	30	Good	Some dead branches on the lower part of the tree: TO BE PROTECTED.
9	<i>Picea pungens</i> 'Glaucu'	Colorado Blue Spruce	30	Good	Some dead branches on the lower part of the tree: TO BE PROTECTED.
10	<i>Acer saccharum</i>	Sugar Maple	25	Good	TO BE PROTECTED.
11	<i>Ginkgo biloba</i>	Maidenhair Tree	<10	Good	TO BE REMOVED.
12	<i>Ginkgo biloba</i>	Maidenhair Tree	<10	Good	TO BE REMOVED.
13	<i>Tilia cordata</i>	Little-Leaf Linden	25	Good	TO BE REMOVED.

APPROVED

By Sarah Ezzio at 1:15 pm, Jul 08, 2020

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Legend

- EXISTING INVENTORIED DECIDUOUS TREE
- EXISTING INVENTORIED CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED DECIDUOUS SHRUBS
- PROPOSED PLANTING BED EDGE
- T/SOD SOD WITH 150mm TOPSOIL
- PROPERTY LINE

KEY PLAN - N.T.S.

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES - REFER TO DETAIL 2/L300					
2	AS	Acer saccharum	Sugar Maple	60 mm (cal.)	W.B.: Plant at 15,000 mm o/c
1	CL	Crataegus laevigata	Hawthorn	2500 mm (Ht.)	Potted;
2	TC	Tilia cordata	Little-Leaf Linden	60 mm (cal.)	W.B.: Plant at 15,000 mm o/c
DECIDUOUS SHRUBS - REFER TO DETAIL 3/L300					
14	HP	Hydrangea paniculata 'Little Lime'	Little Lime Hydrangea	1 GAL	Potted; Plant at 1500 mm o/c
12	RR	Rosa rugosa	Shrub Rose	1 GAL	Potted; Plant at 1200 mm o/c

APPROVED

By Sarah Ezzio at 1:16 pm, Jul 08, 2020

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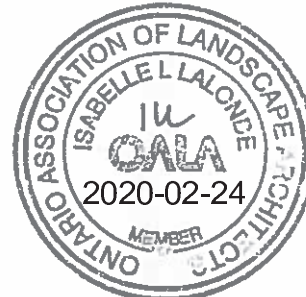
Notes

- REFER TO DRAWING L300 FOR LANDSCAPE NOTES AND DETAILS.
- REFER TO CIVIL DRAWINGS FOR SITE SERVICES AND GRADING.

Revision	By	Appd.	YY.MM.DD
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2495 DON REID DRIVE

EXTERIOR PARKING LOT EXTENSION
OTTAWA, ONTARIO

Title

LANDSCAPE PLAN

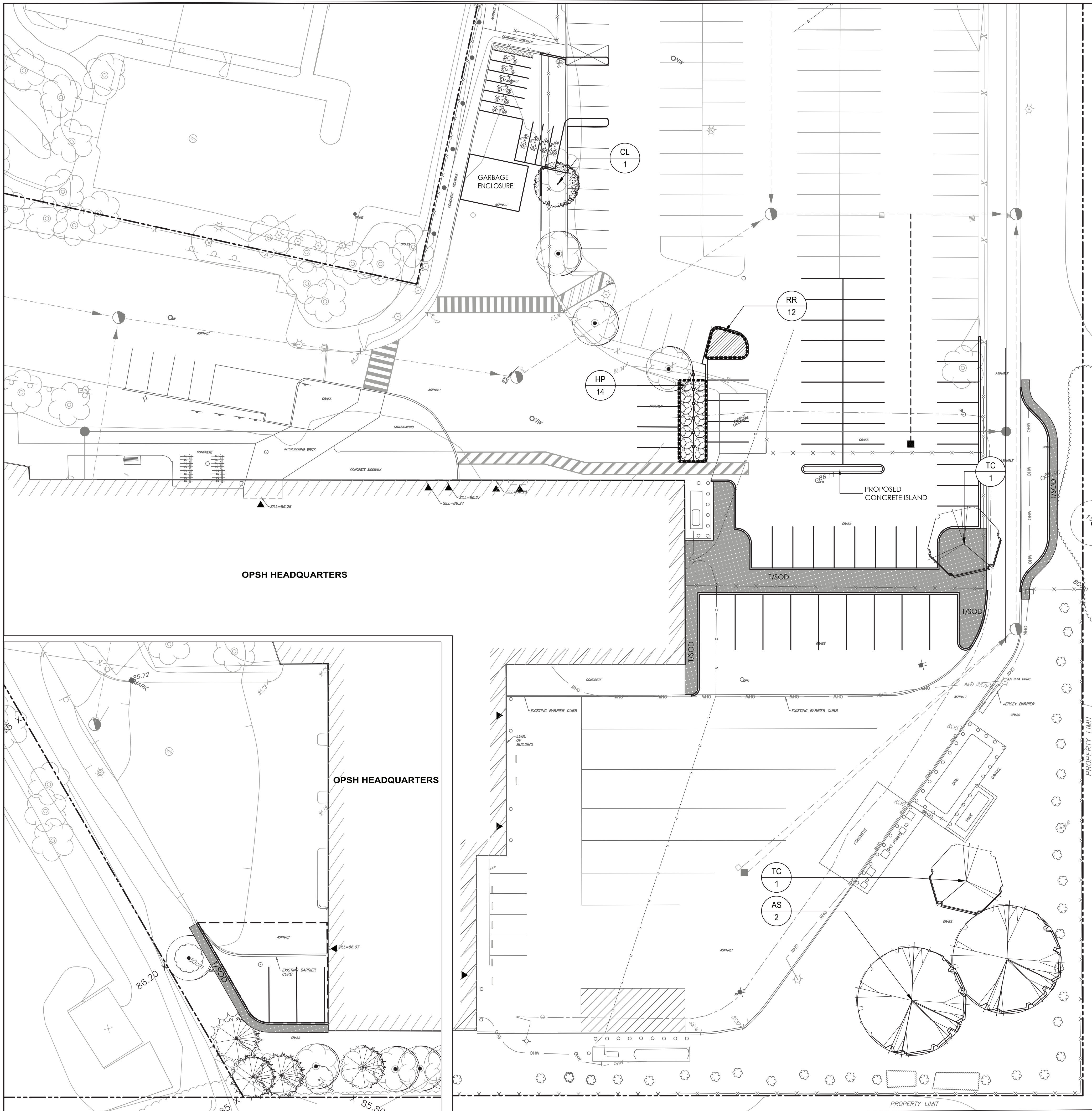
Project No. 163601309	Scale 1:250	0 2.5 7.5 12.5m
Drawing No.	Sheet	Revision

L200

2 of 3

2

DWG# XXXXX



1 LANDSCAPE PLAN - WEST SIDE PARKING EXTENSION
1:250

2 TREE PRESERVATION PLAN - EAST SIDE PARKING EXTENSION
1:250

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 BE 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. SHALL 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 TREES 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.

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:
- ALL 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.

4. REFER TO ENGINEERING DRAWINGS FOR PROPOSED GRADING.
5. REFER TO ENGINEERING DRAWINGS FOR PROPOSED SITE SERVICING.
6. EXISTING VEGETATED AREAS ON ADJACENT PROPERTIES SHALL REMAIN AND BE PROTECTED BEFORE, DURING, AND AFTER CONSTRUCTION.
7. 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.
8. 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.
9. NO TREES SHALL BE PLANTED UNDER OVERHEAD WIRES.
10. THE LANDSCAPE ARCHITECT MAY ADJUST THE LOCATION OF PLANTING PRIOR TO PLANTING TO MINIMIZE CONFLICTS WITH UTILITIES, DRIVEWAYS AND INTERSECTION VISIBILITY.
11. 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.
12. DO NOT MAKE SUBSTITUTIONS OF MATERIALS, PRODUCTS OR QUANTITIES WITHOUT PRIOR WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.
13. THE CONTRACTOR TO MAKE GOOD TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT ANY AREAS DAMAGED BY THE WORK.
14. 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.
15. ALL WORKMANSHIP AND MATERIALS (INCLUDING PLANTS) TO BE GUARANTEED FOR ONE FULL YEAR FOLLOWING FINAL ACCEPTANCE OF THE PROJECT BY THE LANDSCAPE ARCHITECT.
16. THE CONTRACTOR SHALL REMOVE ALL T-BAR AND WOODEN TREE STAKES PRIOR TO ASSUMPTION BY THE OWNER.
17. AT THE TIME OF INSPECTION FOR ACCEPTANCE ALL TREE PITS SHALL BE CULTIVATED, FREE OR WEEDS, LEAVES, BROKEN BRANCHES AND DEBRIS.

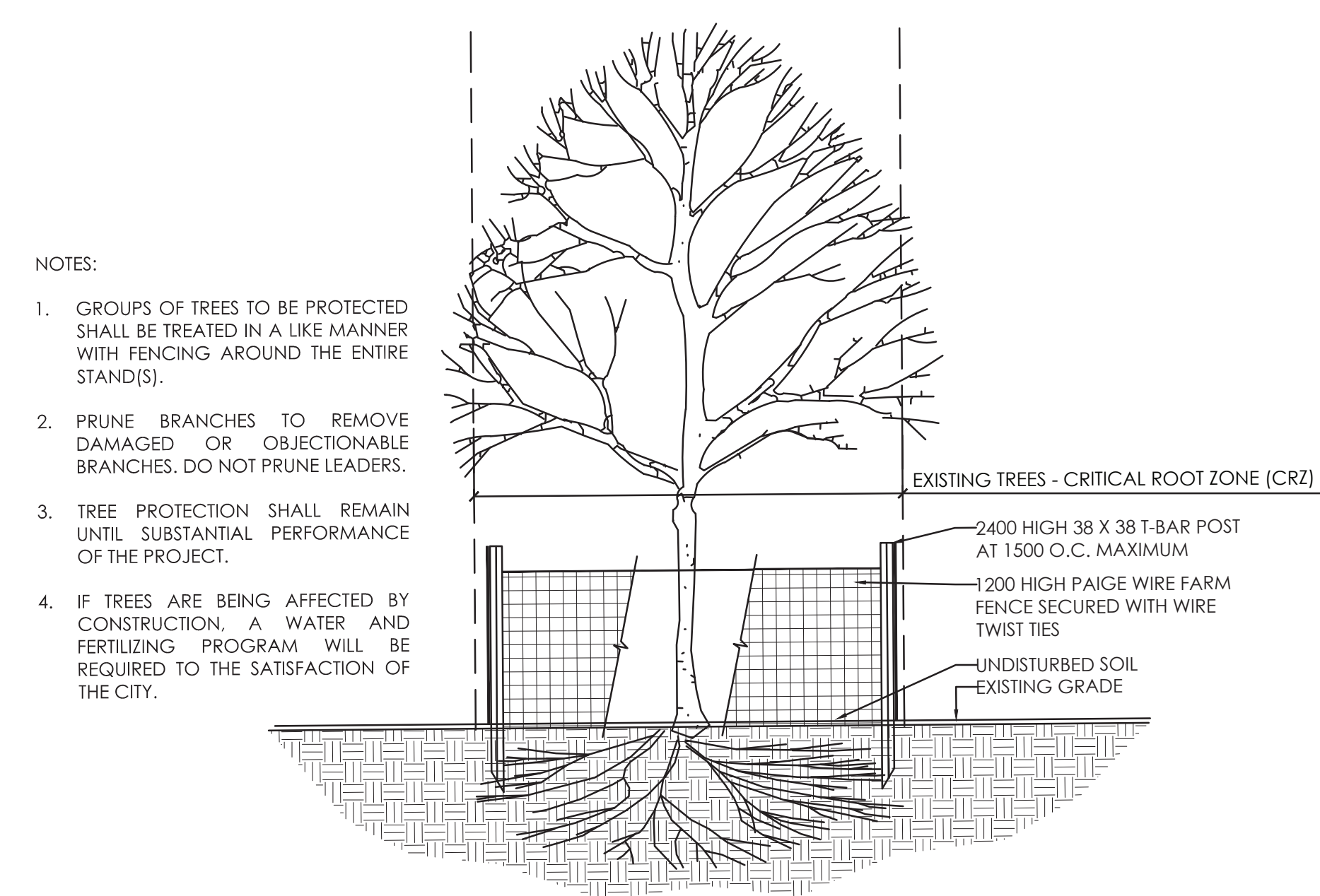


Diagram illustrating the components and specifications for a planting pit, showing the relationship between the plant, mulch, soil, and existing ground level.

SPACING
REFER TO PLANT LIST

SHRUBS SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE

REMOVE ALL NURSERY TAGS

150 mm SPACE BETWEEN BASE OF TRUNK AND EDGE OF MULCH

POT TO BE CUT & REMOVED FROM ROOT BALL WHERE APPLICABLE

MIN. 100 mm SHREDDED BARK MULCH UNLESS OTHERWISE NOTED

100 mm HIGH PLANTING BED

AERATE AND LOOSEN SOIL AROUND EDGES OF PLANTING PIT. GLAZED SIDES WILL NOT BE ACCEPTED. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.

SOIL MIXTURE AS PER PLANTING NOTES

WATER SOIL WHEN PLANTING PIT IS HALF FULL

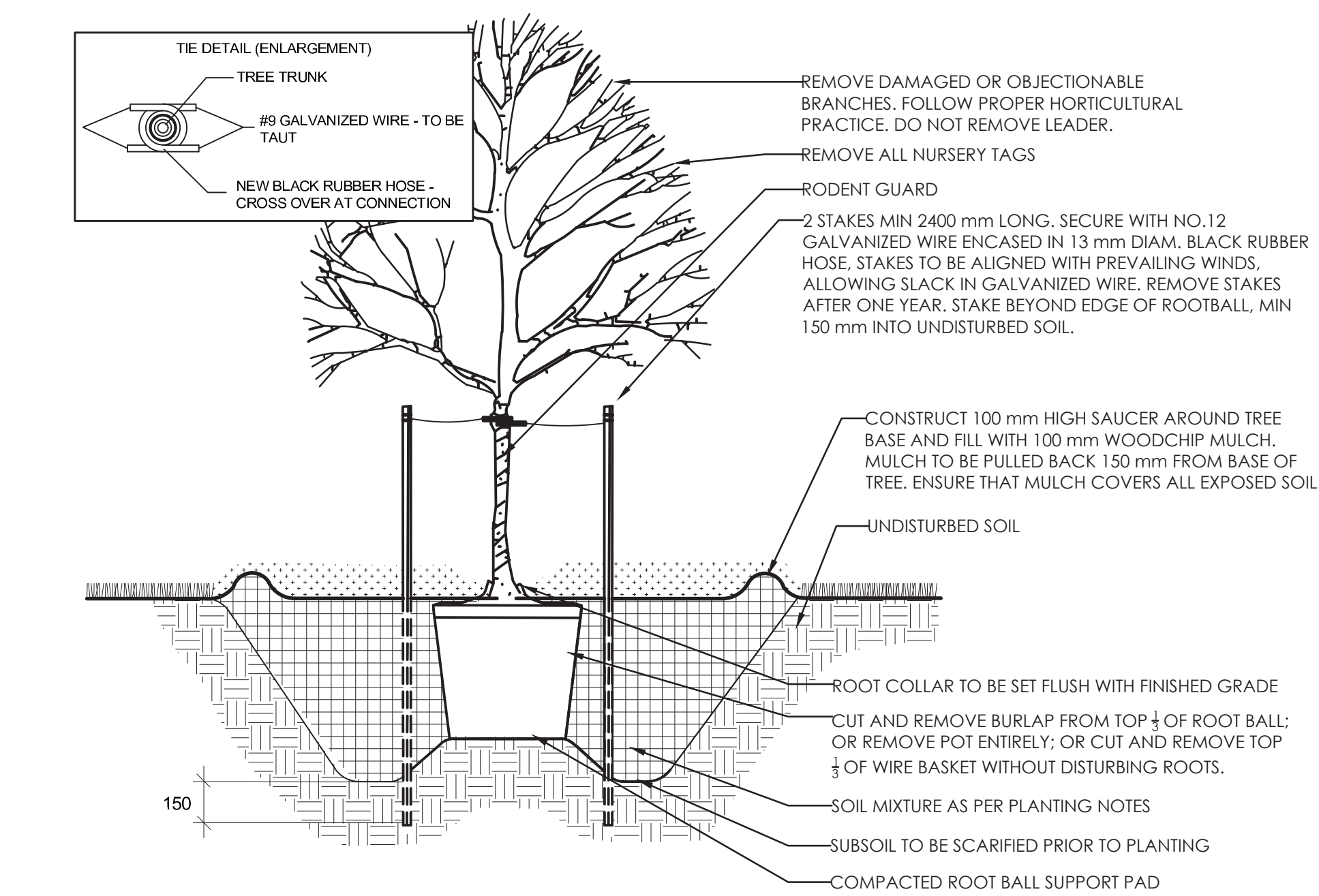
TOPSOIL TAMPED TO PREVENT SETTLEMENT

UNDISTURBED SOIL

DEPTH VARIES ACCORDING TO FULL DEPTH OF ROOT BALL (MIN. 500)

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
9. MULCH:
 - MULCH SHALL BE SHREDDED WOOD VARYING IN SIZE FROM 25-125mm IN LENGTH FROM CONIFEROUS TREES.



APPROVED
By Sarah Ezzio at 1:17 pm, Jul 08, 2020

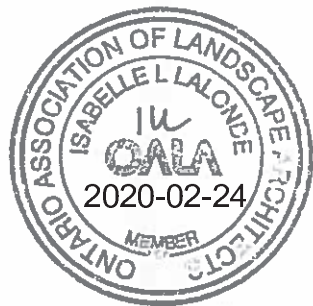
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2495 DON REID DRIVE

EXTERIOR PARKING LOT EXTENSION
OTTAWA, ONTARIO

Title
LANDSCAPE DETAILS AND NOTES

Project No. 163601309	Scale VARIES	
Drawing No. L300	Sheet 3 of 3	Revision 2

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