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Monday, June 05, 2023

ATTENTION: Bridgette Alchawa McIntosh Perry Consulting Ltd.
CC: Andrew Boyd IFS Associates

TREE CONSERVATION REPORT
OEH SERVICE GARAGE EXPANSION 2628 EDINBURGH PLACE

D07-12-22-0184. **Site Plan Control Application – 2616 & 2628 Edinburgh Place**

In early May, IFS Prepared an Inventory of Existing Vegetation on / adjacent to this site as requested by the City in the first round comments (request to identify trees greater than 10cm on / adjacent to the property). At the time / for the first submission, a TCR had not been prepared.

We have added Tree Protection, Tree Retention, Tree Removal Information to the Site and Landscape Plan and this Report.

TREE PROTECTION / PRESERVATION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied for the trees to be retained on private property. The following measures are required by the City of Ottawa to ensure tree survival during construction:

For excavation within close proximity to Existing Trees, the following measures will be taken:
1. Hydro excavation along the edge of excavation in proximity to the tree so as to carefully expose roots. Exposed roots will then be cleanly cut and sealed before being reburied. Excavation can then resume using traditional mechanical means. Sealing the cleanly cut root ends with a beeswax product will help prevent the loss of moisture and facilitate healing.
2. If the excavation is to be left open for any time a covering of at least three layers of moistened burlap is to be draped over the exposed face of excavation closet to the tree. This will help reduce the loss of soil moisture (as soil dries the roots contained within die).
3. As per the City of Ottawa's tree protection barrier specification, erect a fence as close as possible to the CRZ of all Trees to Remain / Be Protected.
4. Do not place any material or equipment within the CRZ of the tree.
5. Do not attach any signs, notices or posters to any tree.
6. Do not raise or lower the existing grade within the CRZ without approval.
7. Tunnel or bore when digging within the CRZ of a tree.
8. Do not damage the root system, trunk or branches of any tree.
9. Ensure that exhaust fumes from equipment are NOT directed towards any tree's canopy.

The critical root zone (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.

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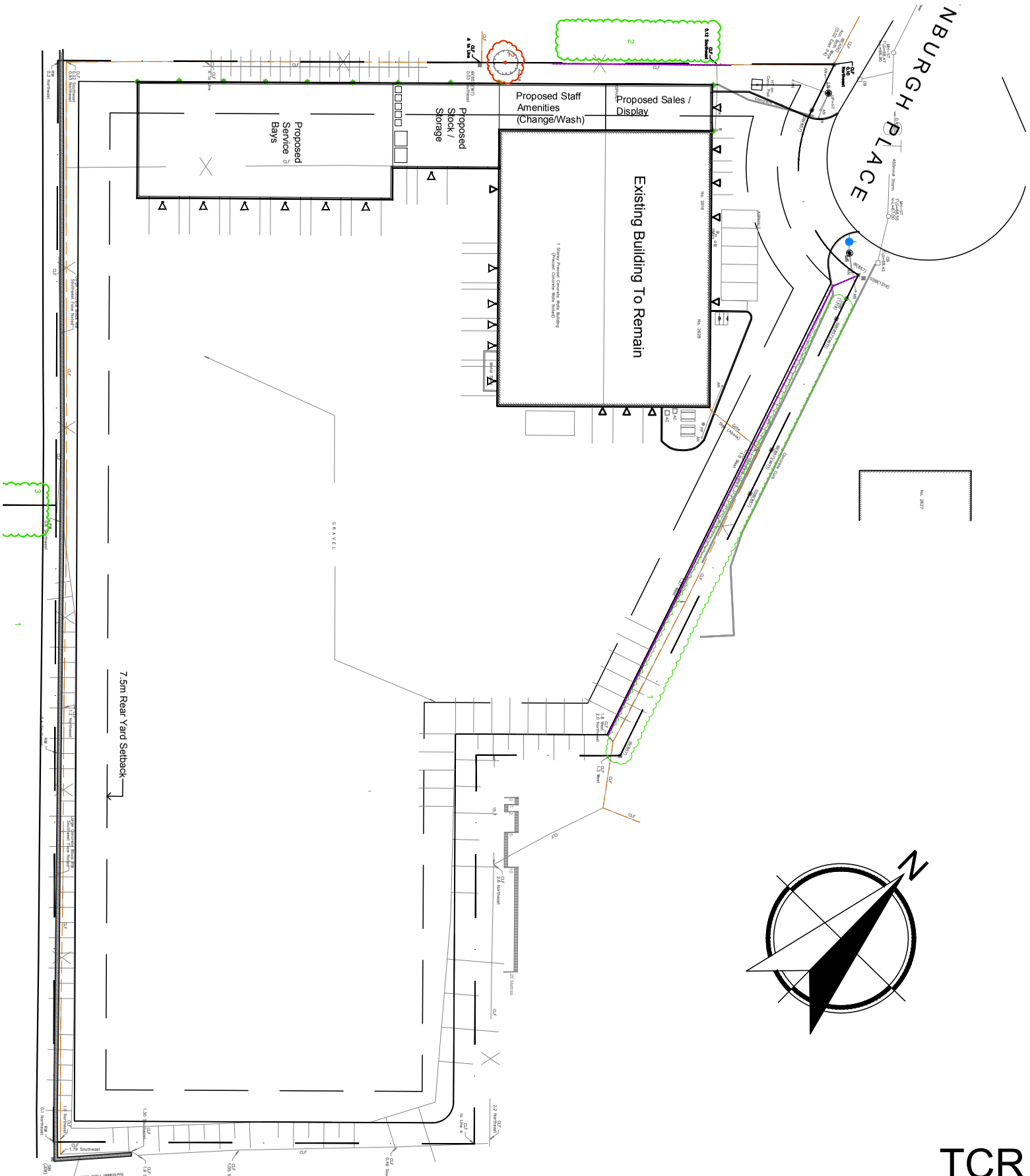

OEH Service Garage Expansion

TCR

2628 EDINBURGH PLACE

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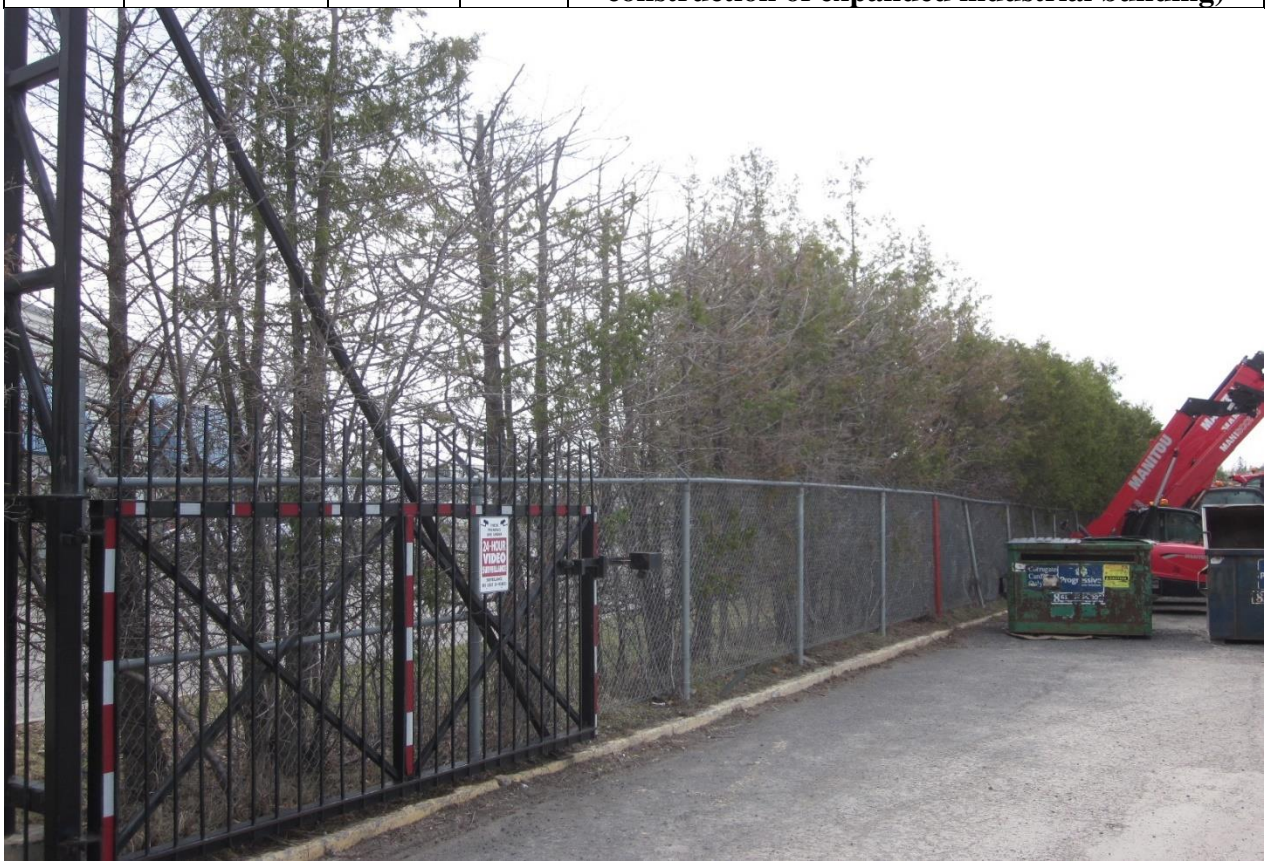
URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

TREE SPECIES, CONDITION, SIZE AND STATUS – 2628 EDINBURGH PLACE

The table below details the species, ownership, size (diameter), condition and status of the groups of trees adjacent to 2628 Edinburgh Place.

Group No.	Tree species	Owner-ship[1]	DBH[2] (cm)	Tree Condition; Age Class; Condition Notes; Species Origin & **Preservation Status** (to be removed or preserved and protected)
1	White cedar *(Thuja occidentalis)*	Neigh-bour	10 avg.	Good to poor; maturing; limited available rooting area greatly stressing northern 1/3 of hedge – poor crown density, growth increment and needle colour; scattered dead trees; southern 2/3 is in fair to good condition; native species; **to be preserved and protected (will not be impacted by proposed construction of expanded industrial building)**



Picture 1. Transition between northern and southern portions of neighbouring hedge at 2628 Edinburgh Place – change in health is related to available rooting area.

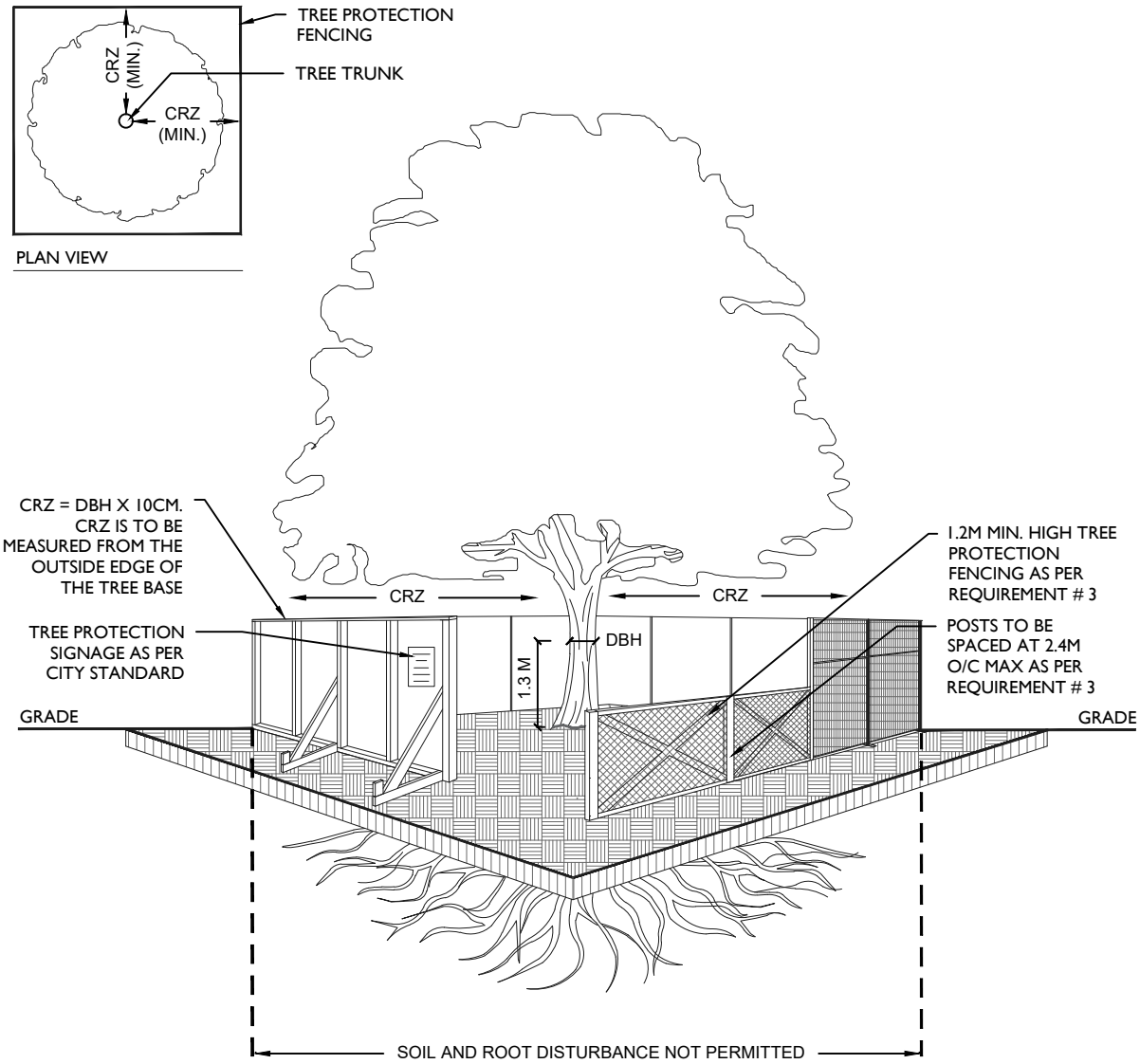
Group No.	Tree species	Owner-ship[1]	DBH[2] (cm)	Tree Condition; Age Class; Condition Notes; Species Origin & **Preservation Status** (to be removed or preserved and protected)
2	Honey-locust *(Gleditsia triacanthos);* English oak *(Quercus robur); Manitoba maple (Acer negundo)*	Neigh-bour	12 avg.	Good to fair; maturing; two locusts, two oaks and one maple over 10cm diameter; locusts and oaks planted, maple originated from seed; locusts and oaks are introduced species, maple is a naturalized species; **locusts and oaks to be preserved and protected (will not be impacted by proposed construction of expanded industrial building); maple to be removed due to excavation and grading within 1m** (removal will require neighbour's written permission)

Picture 2. Planted locust and oaks (in background) and seeded Manitoba maple (foreground) adjacent to 2628 Edinburgh Place.

Group No.	Tree species	Owner-ship[1]	DBH[2] (cm)	Tree Condition; Age Class; Condition Notes; Species Origin & **Preservation Status** (to be removed or preserved and protected)
3	Siberian elm *(Ulmus pumila)*	Neigh-bour	20 avg.	Good to fair; mature; planted line of trees; introduced invasive species; **to be preserved and protected (will not be impacted by proposed construction of expanded industrial building)**

Picture 3. Planted line of Siberian elms adjacent to 2628 Edinburgh Place.

[1]As determine from topographic survey prepared by Annis O'Sullivan Vollebekk Ltd.; [2] Diameter at breast height, or 1.3m from grade (unless otherwise indicated)



TREE PROTECTION REQUIREMENTS:

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
   - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
   - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
   - DO NOT RAISE OR LOWER THE EXISTING GRADE;
   - TUNNEL OR BORE WHEN DIGGING;
   - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
   - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
   - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST

Ottawa

TREE PROTECTION SPECIFICATION

TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

SCALE:	NTS
DATE:	MARCH 2021
DRAWING NO.:	1 of 1