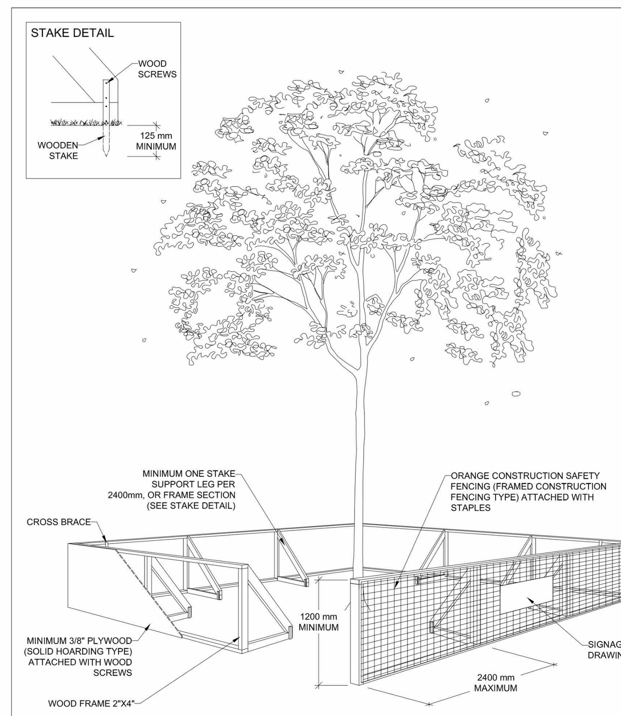
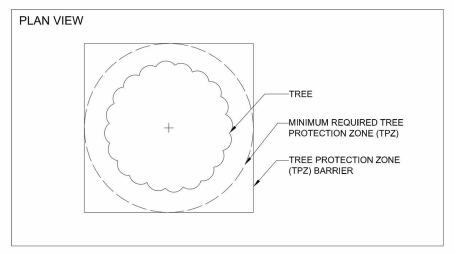


NOTES

1. REFER TO YORK REGION STREET TREE AND FOREST PRESERVATION GUIDELINES FOR COMPLETE TREE PRESERVATION REQUIREMENTS.
2. TREE PROTECTION ZONE (TPZ) BARRIERS SHALL BE INSTALLED AT THE OUTER LIMIT OF THE MINIMUM REQUIRED TPZ FOR EACH TREE TO BE PRESERVED AND OR AS DIRECTED IN THE APPROVED TREE PROTECTION PLAN BY YORK REGION NATURAL HERITAGE AND FORESTRY.
3. TPZ IS DELINEATED AS A RADIUS, IN METRES, MEASURED OUTWARD FROM THE BASE OF THE TREE TO BE PROTECTED. THE TPZ RADIUS IS DETERMINED BASED UPON THE DIAMETER AT BREAST HEIGHT (DBH) OF THE TREE'S MAIN STEM. FOR MULTI-STEMMED TREES, THE DIAMETER OF THE MAIN STEM OF STEMS OF A TREE ARE MEASURED IN CENTIMETRES AT 30cm ABOVE GRADE LEVEL. THE TPZ FOR ALL TREES 24cm DBH OR LESS IS A MINIMUM OF 2.4m. THE TPZ FOR TREES 25cm OR GREATER IS 10cm FOR EVERY CENTIMETRE OF DBH.
4. TPZ BARRIERS SHALL PROTECT CONTIGUOUS GROUPS OF TREES WHEREVER POSSIBLE.
5. TPZ BARRIERS SHALL BE ESTABLISHED, INSPECTED, AND APPROVED BY YORK REGION OR ITS DESIGNATE PRIOR TO COMMENCEMENT OF ANY SITE DISTURBANCE.
6. TPZ BARRIERS SHALL BE INSPECTED BY A QUALIFIED TREE PROFESSIONAL ONCE WEEKLY OR ON A SCHEDULE APPROVED BY THE YORK REGION OR ITS DESIGNATE.
7. TPZ BARRIERS SHALL NOT BE MOVED, MODIFIED, OR RELOCATED AT ANY TIME WITHOUT PRIOR APPROVAL OF YORK REGION OR ITS DESIGNATE.

PLAN VIEW



York Region Environmental Services

TREE PROTECTION ZONE (TPZ) BARRIER

DATE:	JANUARY 2022	SCALE	N.T.S.
REV.	X X		NHF - 400

TREE PROTECTION ZONE (TPZ)

PLEASE NOTE THAT **ANY:**
GRADE CHANGE
DUMPING
STORAGE
UNAUTHORIZED ENTRY
TREE INJURY OR REMOVAL
DISTURBANCE OF ANY KIND

York Region

IS **STRICTLY PROHIBITED** WITHIN THIS TPZ

THIS BARRIER SHALL NOT BE DAMAGED OR MOVED

PLEASE REPORT ANY ENTRY INTO THIS ZONE
TO NATURAL HERITAGE AND FORESTRY:
Access York -
1-877-464-9675 ext. 73000
accessyork@york.ca

MIN. 400 MM

MIN. 600 MM

NOTES

1. REFER TO YORK REGION STREET TREE AND FOREST PRESERVATION GUIDELINES FOR COMPLETE TREE PRESERVATION REQUIREMENTS.
2. TPZ SIGNAGE SHALL BE INSTALLED ON AT LEAST TWO SIDES OF THE TPZ BARRIER WITH DISTANCE BETWEEN SIGNS NOT TO EXCEED 10 METRES ON ANY ONE SIDE.

York Region Environmental Services

TREE PROTECTION ZONE (TPZ) SIGNAGE

DATE:	JANUARY 2022	SCALE	N.T.S.
REV.	X X		NHF - 401

General
1. York Region Street Tree and Forest Preservation Guidelines (the "Guidelines") must be implemented where site disturbance is proposed in the Regional road allowance and any Region-owned street trees and/or natural vegetation is within 10m or less of the limit of proposed site disturbance.
2. These Guidelines must also be implemented where site disturbance is proposed outside of the Regional road allowance and Region-owned street trees and/or natural vegetation are situated within 10m of the limit of potential site disturbance and/or where Region-owned street trees and/or natural vegetation are situated more than 10m but may be adversely impacted by the proposed site disturbance.
3. All tree preservation measures shall be in accordance with the Guidelines.
4. All proposed tree preservation measures must be described in the Arborist Report and shown on the Tree Protection Plan and approved by York Region Environmental Services Department, Natural Heritage and Forestry. Refer to the Guidelines for tree inventory, tree removal compensation and other requirements.
5. All tree protection zone barriers shall be installed prior to any site disturbance, including tree removals, and must remain in good repair for the duration of construction.
6. At the sole discretion of York Region Natural Heritage and Forestry, any existing trees that die or exhibit a decline in health prior to final acceptable shall be compensated for in accordance with the Guidelines.
7. York Region Natural Heritage and Forestry shall be notified when tree protection measures have been installed, and before tree removals, if applicable.

Tree Protection Zone (TPZ)
8. A minimum Tree Protection Zone (TPZ) will be established around every tree to be preserved in accordance with the Guidelines and a York Region-approved Tree Protection Plan.
9. No entry or activity shall be permitted within the TPZ without prior written approval of York Region Natural Heritage and Forestry.
10. Prohibited activities within the TPZ include but are not limited to installation or attachment of any items to the tree; operation of equipment or machinery; storage of equipment, machinery or materials; access by any personnel; placement of trailers, temporary buildings or structures; flushing, storage or dumping of fuels, chemicals or other contaminants; stockpiling of soil; digging, trenching, or excavation; and/or change to existing grade.
11. Permitted activities within the TPZ, with prior written approval of York Region Natural Heritage and Forestry and overseen by a qualified tree professional, include but are not limited to encroachment activities related to tree protection provisions such as canopy clearance pruning, root-sensitive excavation and root pruning, tree stem protection and other arboricultural maintenance.

Tree Protection Zone (TPZ) Barrier
12. A Tree Protection Zone (TPZ) barrier shall be constructed around the TPZ of every tree to be preserved in accordance with the Guidelines and a York Region-approved Tree Protection Plan. The TPZ barrier shall follow York Region standard drawing 'Tree Protection Zone (TPZ) Barrier NHF-400'
13. Where trees to be protected are located in close proximity to each other, the TPZ barrier shall be installed to protect trees in contiguous groups.
14. The TPZ barrier shall be installed prior to commencement of any site disturbance. Site disturbance shall not commence until the installation of all TPZ barriers has been completed and has been verified and approved by York Region or its designate.
15. The TPZ barrier shall be constructed on a 2x4 frame. The height of the frame shall measure a minimum of 1.2m (4 feet), and the width of individual frame sections shall not exceed 2.4m (8 feet).
16. The frame shall be supported by diagonal 2x4 support legs installed inside the TPZ, secured to the frame using wood screws, and secured to the ground using a wooden stake installed a minimum of 125mm into the ground. A minimum of 1 support leg shall be installed per 2.4m (8 feet) of linear TPZ barrier distance, or per frame section.
17. Framed construction fencing is the primary method for TPZ barrier construction. Orange construction safety fencing shall be securely and tightly stapled to the outside of the TPZ barrier frame to construct the framed construction fencing TPZ barrier type. Other fencing materials (e.g., chicken wire, green snow fence, etc.) shall not be used.
18. Solid hoarding shall be installed where there is a significant risk of fill or other material being piled against the TPZ barrier, or where heavy machinery is to be operated in close proximity to the TPZ barrier. Plywood or oriented strand board (OSB) sheathing with a minimum thickness of 3/8" shall be affixed using wood screws to the outside of the TPZ barrier frame to construct the solid hoarding TPZ barrier type. Nails, staples or other fasteners shall not be used.
19. If required, and as approved in the Arborist Report, silt barrier fencing shall be installed using a 'no-dig' method as described in the Guidelines.

Tree Protection Zone (TPZ) Signage
20. All Tree Protection Zone (TPZ) signage shall be in accordance with the Guidelines.
21. Signage shall follow York Region standard drawing 'Tree Protection Zone (TPZ) Signage NHF-401' and shall be installed on at least two sides of the TPZ barrier. The distance between individual signs shall not exceed 10m on any one side of the TPZ barrier.

Maintenance and Inspection
22. TPZ barriers shall remain in place and in good working order and appearance throughout the duration of site disturbance until completion of all works.
23. TPZ barriers shall not be moved, modified, or relocated at any time without the approval of York Region or its designate.
24. TPZ barriers shall be inspected by a qualified tree professional once-weekly or on a schedule approved by York Region or its designate. Any deficiencies shall be noted in writing and any TPZ barriers found to be in substandard condition shall be repaired, modified or replaced as necessary within 48 hours of formal notification by York Region or its designate.

Encroachment
25. All encroachment work shall be in accordance with the Guidelines and a York Region-approved Tree Protection Plan and Arborist Report.
26. A qualified tree professional must be present for all encroachment work within the TPZ.
27. York Region Natural Heritage and Forestry shall be notified with 24 hours of notice prior to work occurring within the TPZ.
28. TPZ barriers shall be placed at the limit of encroachment and not be moved at any time during construction unless under the supervision of a qualified tree professional.
29. Below-grade encroachment: root sensitive excavation and root pruning shall be undertaken prior to conventional excavation as per standard drawing NHF-403.
30. At-grade encroachment: root zone compaction protection provisions must be followed as per standard drawing NHF-404.
31. Above-grade encroachment: tree stem protection provisions must be followed as per standard drawing NHF-405.
32. After the completion of construction, soil compaction and restoration provisions shall be followed when deemed necessary by York Region Natural Heritage and Forestry.

Pruning
33. All pruning work shall be in accordance with the Guidelines and a York Region-approved Tree Protection Plan and Arborist Report.
34. No tree branches or tree roots shall be pruned without written approval of York Region or its designate.
35. Approved pruning must follow arboriculture best practices and be undertaken by an ISA Certified Arborist or an Ontario College of Trades 444A Arborist or Arborist Apprentice only.
36. No other trades personnel are permitted to prune tree branches or tree roots.

Other
37. Other tree preservation measures may be required to be implemented wherever site disturbance is proposed, anticipated or likely to occur within or in close proximity to Tree Protection Zones (TPZs) and trees to be preserved. Other acceptable tree preservation measures are described in the Guidelines.

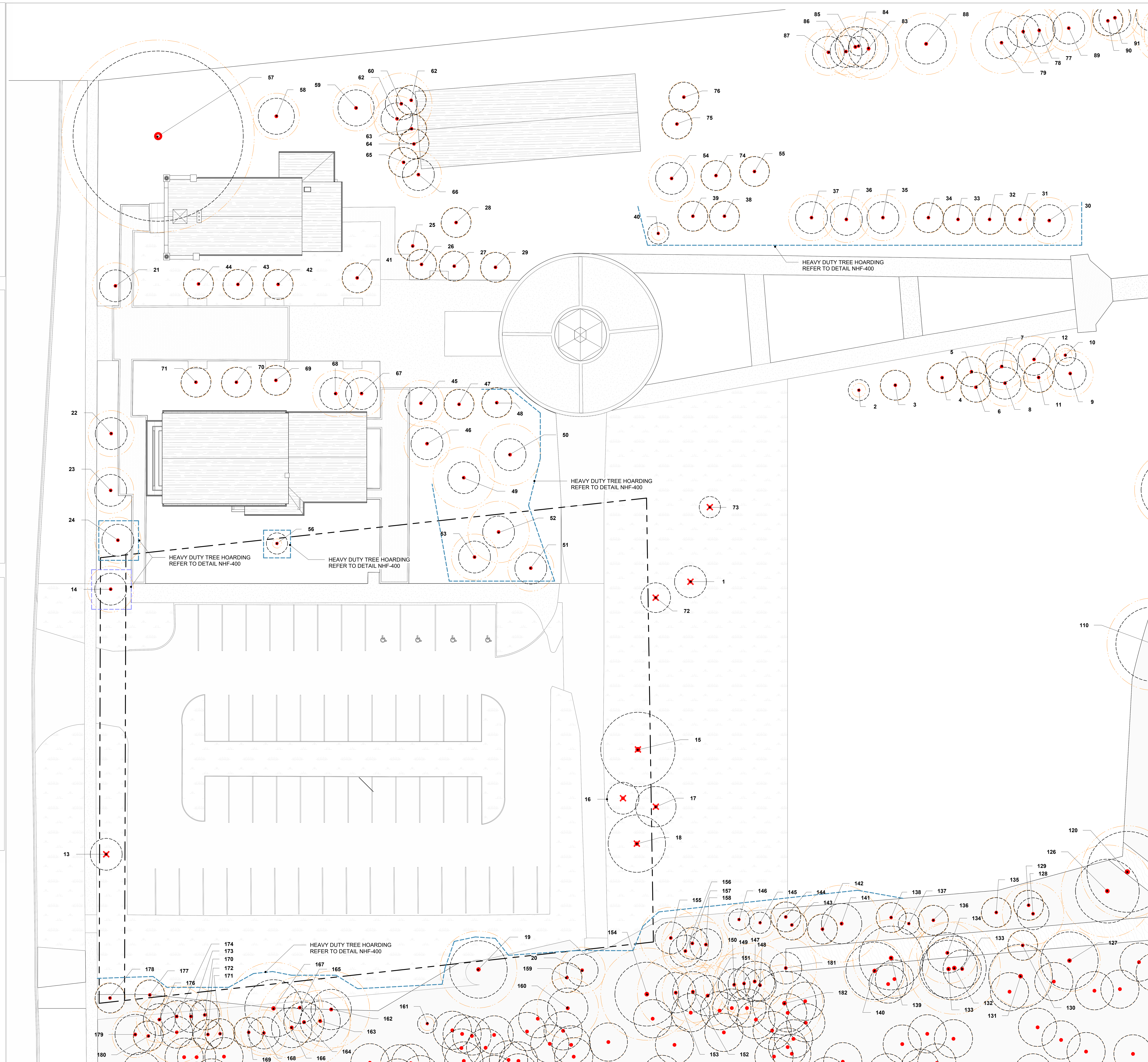
York Region Environmental Services

STANDARD TREE PROTECTION NOTES

DATE:	JANUARY 2022	SCALE	N.T.S.
REV.	X X		NHF - 402

GENERAL NOTES:

1. THE TREE PROTECTION BARRIERS SHALL BE INSTALLED AT THE APPROVED LOCATION AND SHALL BE MAINTAINED IN THEIR ORIGINAL LOCATION AND CONDITION UNTIL ALL CONSTRUCTION ACTIVITIES WITHIN THE SITE HAVE CEASED AND ALL EQUIPMENT IS REMOVED FROM THE SITE. NO EQUIPMENT OR MATERIAL STORAGE, FLUSHING OF FUEL OR WASHING OF EQUIPMENT IS ALLOWED WITHIN THE TPZ. ANY WORKS WITHIN THE TPZ AREA TO BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST.
2. ANY WORK REQUIRED TO BE PREFORMED OR SUPERVISED BY A CERTIFIED ARBORIST SHALL BE PAID FOR BY THE GENERAL CONTRACTOR UNDER THE SCOPE OF THE CONTRACT.
3. TREE PROTECTION FENCING IS TO BE INSTALLED TO MINIMIZE THE IMPACT ON THE TREES (OVER 20CM DBH) TO BE PRESERVED PRIOR DEMOLITION/CONSTRUCTION AND IS TO REMAIN UNTIL THE CONSTRUCTION IS COMPLETED. (APPLICABLE TO PRIVATE AND PUBLIC TREES) AS PER BY-LAW 052-2018
4. NO CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT, EXCAVATIONS OF ANY KIND OR MATERIAL STORAGE IS PERMITTED WITHIN THE TREE PROTECTION ZONE.
5. TREE PROTECTION & PRESERVATION METHODS MUST BE FOLLOWED ACCORDING TO CITY OF VAUGHAN'S TREE PROTECTION BY-LAW 052-2018.
6. CONTRACTOR SHALL NOTIFY VAUGHAN FORESTRY OR DEVELOPMENT PLANNING DEPARTMENT ONCE TREE PROTECTION (HOARDING) HAS BEEN INSTALLED, TO ALLOW VAUGHAN FORESTRY TO INSPECT AND APPROVE ACCORDING TO BY-LAW 052-2018 AND/OR IN ACCORDANCE WITH THE CITY OF VAUGHAN 'S TREE PROTECTION PROTOCOL (2018). CONTRACTOR SHALL SUBMIT APPROVAL LETTER TO THOMAS BROWN ARCHITECT INC. ONCE RECIEVED FROM FORESTRY.



1 **SITE PLAN - DEMOLITION - EXISTING TREES**
1 : 250

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THOMAS BROWN ARCHITECT INC.
AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

ISSUE OR REVISION

NO.	ISSUED FOR	DATE
7	SITE PLAN SUBMISSION 1	2022-05-31
10	SPA RE-SUBMISSION	2022-08-30
11	MINOR VARIANCE	2022-12-09
12	2022 UPDATE	2022-12-20
15	ROAD WIDENING - CLIENT REVIEW	2023-07-19
17	SPA - REVISION	2023-08-30
18	ISSUED FOR PERMIT	2023-09-15
19	ISSUED FOR RFPQ	2023-10-19
24	ISSUED FOR CLASS A	2024-02-16
25	CLIENT REVIEW - 100%	2024-03-12
26	T24-253 - IFT	2024-04-15

FILE NO. SP.22.V.0191

PROJECT :

CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

CLIENT

VAUGHAN

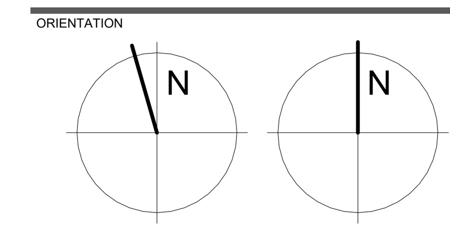
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 I TORONTO ONTARIO I M5T 2C8

PROFESSIONAL SEAL

DWG TITLE
TREE INVENTORY/ REMOVAL/ PRESERVATION PLAN

ORIENTATION



DATE 2021-11-24

SCALE 1 : 250 | DRAWN BY SRL

DWG STATUS : TENDER

PROJECT No. 2104

DRAWING No. A2.3 | REVISION 26

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