

#### ESTABLISH TREE PROTECTION ZONE

The purpose of the tree protection zone (TPZ) is to prevent root damage, soil compaction and soil contamination. Workers and machinery shall not disturb the tree protection zone in any way. To prevent access, the following is required:

I.I Install hoarding as per attached Tree Protection Plan in Appendix I.

1.2 Hoarding shall consist of the following: Tree Protection Barriers (See Detail II on sheet

1.3 When visibility is a consideration and upon approval from the City, 1.2-meter high orange plastic web snow fencing on a  $2^{4}$ 4 frame is recommended.

1.4 No fill, equipment or supplies are to be stored within the tree protection zone.

1.5 Activities, which are likely to injure or destroy tree(s), are not permitted within the TPZ. 1.6 No objects may be attached to tree(s) within the TPZ.

1.7 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 in good condition throughout the entire duration of the project.

1.8 Once all tree/site protection measures have been installed you must notify Urban Forestry staff to arrange for an inspection of the site and approval of the site protection requirements.

1.9 All Hoarding shall not be removed until all construction activity is complete.

I.IO A sign that is similar to the illustration (see detail sheet D-1, detail II) must be mounted on all sides of a tree protection barrier for the duration of the project. The sign should be a minimum of 40cm × 60cm and made of white gator board, laminates or equivalent

# TREE PROTECTION ZONE (TPZ)

No grade change, storage of materials or equipment is permitted within the TPZ. The tree protection barrier must not be removed without the written authorization of the Town of Collingwood.

# ROOT PRUNING

When working within the tree protection zone, hand dig areas closest to each tree to prevent any unnecessary tearing or pulling of roots. Removal of roots that are greater than 2.5 centimetres in diameter or roots that are injured or diseased should be performed as follows:

2.1 Preserve the root bark ridge (similar in structure to the branch bark ridge).

Directional Root Pruning (DRP) is the recommended technique and should be used during hand excavation around tree roots. Roots are like branches in their response to pruning practices. With DRP, objectionable and severely injured roots are properly cut to a lateral root that is growing downward or in a favorable direction.

2.2 All roots needing to be pruned or removed shall be cut cleanly with sharp hand tools, by a Certified Arborist or by the PCA.

2.3 No wound dressings/pruning paint shall be used to cover the ends of each cut.

- 2.4 All roots requiring pruning shall be cut using any of the following tools: Large or small loppers
- Hand pruners Small hand saws

2.5 Avoid prolonged exposure of tree roots during construction - keep exposed roots moist and dampened with mulching materials, irrigation or wrap in burlap if exposed for longer than 4 hours.

# ESTABLISH MAINTENANCE PROGRAM

All maintenance work must be completed by the approved Project Consulting Arborist or an equivalent qualified arborist.

# Pre-Construction:

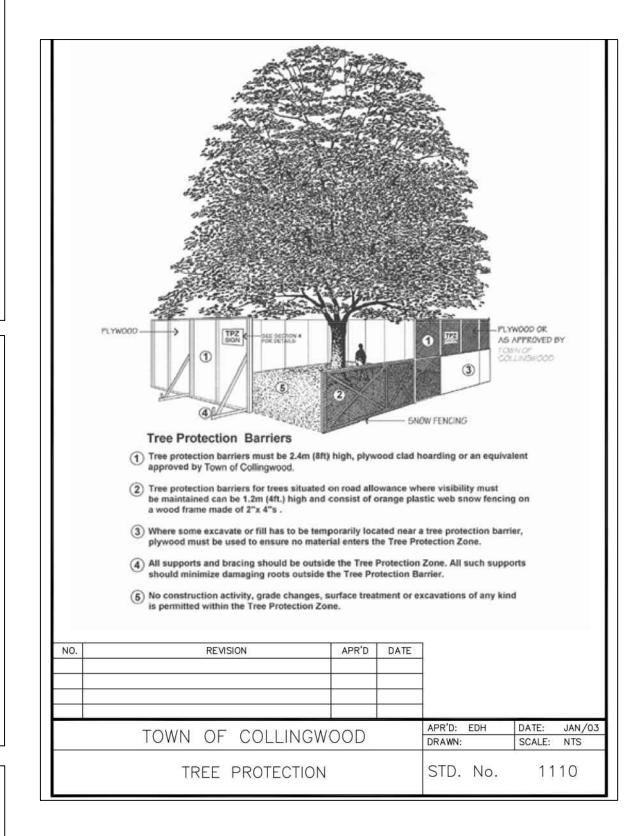
3.1 Prune trees to remove deadwood, objectionable limbs while maintaining crown form. During-Construction:

3.2 Irrigate tree preservation zones during drought conditions, June - September, to reduce drought stress.

3.3 Inspect the site every month to ensure that all hoarding is in place and in good condition. Inspect the trees to monitor condition.

a minimum of 2 additional years.

3.4 Inspect the trees two times per year - May and September - to monitor condition for



# LANDSCAPING

Any landscaping completed within the tree preservation zones, after construction is completed and hoarding has been removed, cannot cause damage to any of the trees or their roots. The trees must be protected for the same reasons listed above but without using hoarding.

- 4.1 No grade changes are permitted which include adding and/or removing soil.
- 4.2 No excavation is permitted that can cause damage to the roots of the tree.
- 4.3 No heavy equipment can be used to compact the soil within the tree preservation

4.4 Any hard -surface sidewalks, paths, etc. should be constructed using permeable products such as interlocking stone, etc.

IF REQUIRED TREE PROTECTION HOARDING IS SET UP WITHIN THE TREE PROTECTION ZONE, NO MATERIALS ARE TO BE STORED IN THE VICINITY OF TREE PROTECTION BARRIERS

FOR TREE PRESERVATION PLAN AND TREE INVENTORY, REFER TO ARBORIST REPORT

PREPARED BY CANOPY CONSULTING DATED DECEMBER 1, 2021

LEGEND

EXISTING TREE TO REMAIN **EXISTING TREE TO REMOVE** EXISTING DEAD TREE

TREE PROTECTION HOARDING

BASE INFORMATION OBTAINED ELECTRONICALLY FROM 2LS DESIGN (JOB NO. 2020-14; TEL.647-456-2828)

ISSUED FOR SUBMISSION OCT.22 ISSUED FOR CLIENT REVIEW no. date

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895 Don Mills Road, Second Tower, Suite 212 Toronto, Ontario, Canada, M3C 1W3 **4** 416.444.5201 **\$** 416.444.5208

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### 11589 HIGHWAY 26 CRANBERRY MARSH ESTATES HIGHWAY 26

TOWN OF COLLINGWOOD

CRANBERRY MARSH ESTATES

TREE PRESERVATION PLAN

scale\* 1:400 direction

OCT 20, 2021

file 3523 TPPN1-221205 project no.

3523

sheet no. TPP-1

#### **SPECIFICATIONS**

THESE SPECIFICATIONS ARE TO BE READ IN CONJUNCTION WITH THE GENERAL CONDITIONS OF THE CONTRACT AS PREPARED BY AND AVAILABLE AT THE OFFICE OF ALEXANDER BUDREVICS & ASSOCIATES LTD.

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL:

1. FAMILIARIZE HIMSELF WITH THE PLANS, DETAILS, AND SPECIFICATIONS
OF THIS PROJECT, VISIT THE SITE TO ASCERTAIN AND TAKE ACCOUNT OF EXISTING

2. CONDITIONS AND ANY DEVIATIONS FROM THE PLANS IN WORK BY OTHERS, AND

3. FINALIZE ALL DESIGN ALTERNATIVES IN CONSULTATION WITH THE LANDSCAPE ARCHITECT.

PRIOR TO EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. IN THE EVENT OF A CONFLICT BETWEEN A PROPOSED TREE LOCATION AND AN UNDERGROUND SERVICE, THE EXACT LOCATION OF THE TREE SHALL BE DETERMINED ON SITE BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, FACILITIES, ETC. DONE IN THE PERFORMANCE OF HIS

ALL SITE WORK SHALL CONFORM TO THE SCANADIAN NATIONAL MASTER CONSTRUCTION SPECIFICATIONS, A COPY OF WHICH CAN BE OBTAINED FROM CONSTRUCTION SPECIFICATIONS CANADA, Tel. (416) 777-219, Fax. (416) 777-219, Email. info@csc-dcc.ca. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE THOROUGHLY FAMILIAR WITH THESE SPECIFICATIONS AND THEIR IMPLICATIONS FOR THIS PROJECT. SOFT LANDSCAPING PLANT MATERIALS

ALL PLANTS SHALL BE INSTALLED TRUE TO SPECIFIED NAMES, SIZES, GRADES, ETC. AND SHALL CONFORM TO THE STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION. ALL PLANTS SHALL BE NURSERY GROWN.

IN THE EVENT OF A DISCREPANCY IN PLANT QUANTITY BETWEEN THE PLANTING PLAN AND THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN. THE CONTRACTOR SHALL MAKE PLANTS AVAILABLE FOR INSPECTION BY THE THE CONTRACTOR SHALL MARE PLANTS AVAILABLE FOR INSPECTION BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. MATERIAL NOT CONFORMING TOTHE SPECIFICATIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE OWNER OR THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY OF THE MATERIAL ON SITE. THE LANDSCAPE ARCHITECT MAY, UPON COMPLETION OF THE WORK AND NOTWITHSTANDING PRIOR APPROVAL AT SOURCE, REJECT PLANT MATERIAL NOT CONFORMING TO THE SPECIFICATIONS.

THE CONTRACTOR SHALL USE STANDARD INDUSTRY METHODS FOR PLANTING TREES. TREES SHALL BE TURNED TO GIVE THE BEST APPEARANCE; THEY SHALL ALSO BE GUYED AND STAKED IMMEDIATELY AFTER PLANTING AND AS DETAILED ON THE

#### BED PREPARATION THE CONTRACTOR SHALL BACKFILL TREE PITS AND PLANTING BEDS TO SPECIFIED DEPTHS WITH EITHER PRE-MIXED TOPSOIL (VIZ., "TRIPLE-MIX") OR A MIXTURE

COMPRISED OF:

6 PARTS SANDY LOAM

1 PART FINELY PULVERIZED CANADIAN PEAT MOSS

1 PART WELL-ROTTED FARM MANURE, WITH "AGRIFORM" 20-10-5

TABLETS (OR APPROVED EQUAL) ADDED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL CONSTRUCT TREE PITS AND SHRUB BEDS WITH SOIL SAUCERS, MULCH, AND SUBSURFACE DRAINAGE AS DETAILED. THE CONTRACTOR SHALL CONSTRUCT SHRUB BEDS IN CONTINUOUS FORMS, THE SHAPE OF WHICH SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER. ON SLOPES, SHRUB BEDS SHALL BE FASHIONED TO ALLOW FOR PROPER DRAINAGE.

TOPSOIL & FINE GRADING

THE CONTRACTOR SHALL PLACE 150mm OF RICH TOPSOIL ON APPROVED SUBGRADES. TOPSOIL SHALL BE IMPORTED WHERE REQUIRED. 10-6-4 FERTILIZER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AT A RATE OF 7.32 kg/1400m² FOR SODDED AREAS; THE MIXTURE AND RATE OF APPLICATION SHALL BE ADJUSTED FOR SEEDED AREAS. MINOR GRADE DEFICIENCIES AND IRREGULARITIES SHALL BE ELIMINATED PRIOR TO

THE CONTRACTOR SHALL SOD ALL AREAS SO INDICATED ON THE DRAWINGS. SOD SHALL BE FRESHLY CUT NO.1 GRADE NURSERY-GROWN TURF 50-75mm THICK. SOD FOR SUNNY, EXPOSED AREAS SHALL BE 50% KENTUCKY BLUEGRASS AND 50% MERION BLUEGRASS. SOD FOR SHADED AREAS SHALL BE 50% NUGGET KENTUCKY BLUEGRASS AND 50% CREEPING RED FESCUE.

TO ENSURE MOISTURE PENETRATION TO A DEPTH OF 100mm SHALL BE APPLIED. SOD SHALL BE MACHINE ROLLED TO ENSURE UNIFORM CONTACT WITH TOPSOIL. SOD ON ALL SLOPES SHALL BE PEGGED WHERE REQUIRED.

HARD LANDSCAPING

POURED-IN-PLACE CONCRETE WORK THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF FORMWORK PRIOR TO POURING CONCRETE. ALL CONCRETE, STEEL REINFORCING, AND FORMWORK SHALL

THE STYLE, COLOUR, AND FINISH OF CONCRETE ELEMENTS SHALL BE APPROVED BY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONCRETE WORK.

ALL STRUCTURAL CONCRETE WORK SHALL CONFORM TO LOCAL BUILDING CODES AND REGULATIONS.

BE AS DETAILED AND SPECIFIED ON THE DRAWINGS.

BRICKWORK, STONEWORK & CONCRETE UNIT PAVING WHERE APPLICABLE, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF ALL STRUCTURAL CONCRETE WORK BEFORE COMMENCING BRICKWORK, STONEWORK OR PAVING WORK. ALL BRICKWORK, STONEWORK, AND CONCRETE UNIT PAVING SHALL BE AS DETAILED AND SPECIFIED ON THE DRAWINGS, UNLESS THE LANDSCAPE ARCHITECT AND/OR THE OWNER APPROVE SUBSTITUTIONS IN WRITING.

PRIOR TO STARTING THIS PORTION OF WORK, THE CONTRACTOR SHALL SUBMIT SAMPLES OF ALL PROPOSED BRICKWORK, STONEWORK, AND CONCRETE UNIT PAVERS FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR THE OWNER WITH RESPECT TO STYLE, COLOUR, AND FINISH. THE CONTRACTOR MAY ALSO BE ASKED TO SUBMIT SAMPLES OF ALTERNATIVES TO THE MATERIALS SPECIFIED ON THE DRAWINGS.

ALL BRICKWORK, STONEWORK, AND CONCRETE UNIT PAVING SHALL CONFORM TO LOCAL BUILDING CODES AND OTHER MUNICIPAL REQUIREMENTS

ALL WOOD SHALL BE NO. 1 GRADE DRESSED CLEAR CEDAR, PRESSURE-TREATED RED PINE, OR PRESSURE-TREATED JACK PINE, AS SPECIFIED ON THE DRAWINGS. PRESSURE TREATMENT SHALL BE FACTORY-APPLIED COPPER CHROME ARSENATE OR EQUAL, AS PER CSA-080 SPECIFICATIONS. CLEAR CEDAR OR SPECIALTY WOODS SHALL BE STAINED WITH TWO (2) COATS OF STAIN, PAINT OR PRESERVATIVE.

THE CONTRACTOR SHALL SUBMIT SAMPLES OF ALL PROPOSED FINISHES FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR THE OWNER PRIOR TO ITS APPLICATION. THE CONTRACTOR MAY ALSO BE ASKED TO SUBMIT SAMPLES OF ALTERNATIVES TO THE MATERIALS OR FINISHES SPECIFIED ON THE DRAWINGS.

THE CONTRACTOR SHALL MAINTAIN ALL LANDSCAPED AREAS FOR A PERIOD OF FOUR (4) GROWING MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION. MAINTENANCE SHALL INCLUDE \* PROPER IRRIGATION TO ENSURE OPTIMUM GROWTH OF TREES, SHRUBS, AND SOD

\* GRASS MOWING TO MAINTAIN AN APPROXIMATE HEIGHT OF 50mm

\* THE CULTIVATION AND WEEDING OF TREE PITS AND PLANTING BEDS

\* INSECT AND DISEASE CONTROL AT THE END OF THE SPECIFIED MAINTENANCE PERIOD, PROVIDED ALL PLANT MATERIAL IS ALIVE AND IN A HEALTHY GROWING CONDITION, THE OWNER WILL ASSUME THE RESPONSIBILITY OF MAINTAINING THE LANDSCAPE WORK.

PERFORMANCE ACCEPTANCE

(SUBSTANTIAL COMPLETION) WRITTEN NOTICE OF PERFORMANCE ACCEPTANCE BY THE LANDSCAPE ARCHITECT FOR SUBSTANTIAL COMPLETION OF THE PROJECT LANDSCAPE WORKS SHALL MARK THE START OF THE GUARANTEE PERIOD.

SHOULD LOCAL LAW REQUIRE MUNICIPAL ACCEPTANCE, THE LANDSCAPE ARCHITECT WILL SUBMIT THE SUBSTANTIAL COMPLETION CERTIFICATE TO THE MUNICIPALITY SO THAT THEY MAY PROCEED TO INSPECT THE WORK, ISSUE THEIR PERFORMANCE ACCEPTANCE CERTIFICATE, AND REDUCE THE AMOUNT OF SECURITIES.

**GUARANTEE** 

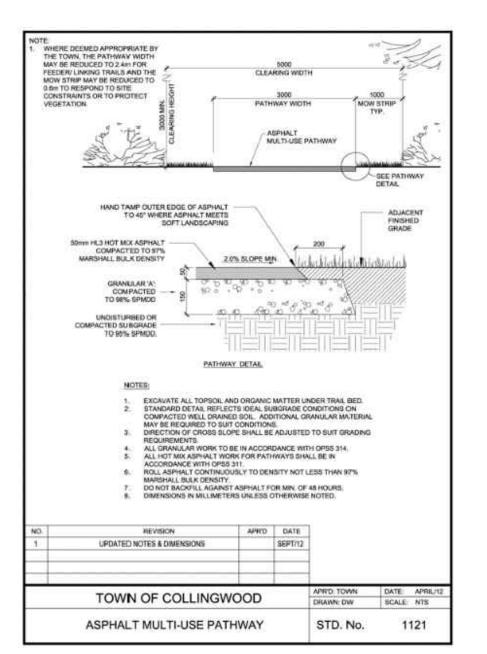
ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO (2) YEAR FROM THE DATE ON THE PERFORMANCE ACCEPTANCE CERTIFICATE ISSUED BY THE LANDSCAPE ARCHITECT. PLANTS THAT EXPIRE OR OTHERWISE FAIL TO THRIVE DURING THE GUARANTEE PERIOD SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR

SIMILARLY, ALL OTHER LANDSCAPE WORK PERFORMED UNDER THIS CONTRACT SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PERFORMANCE. ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

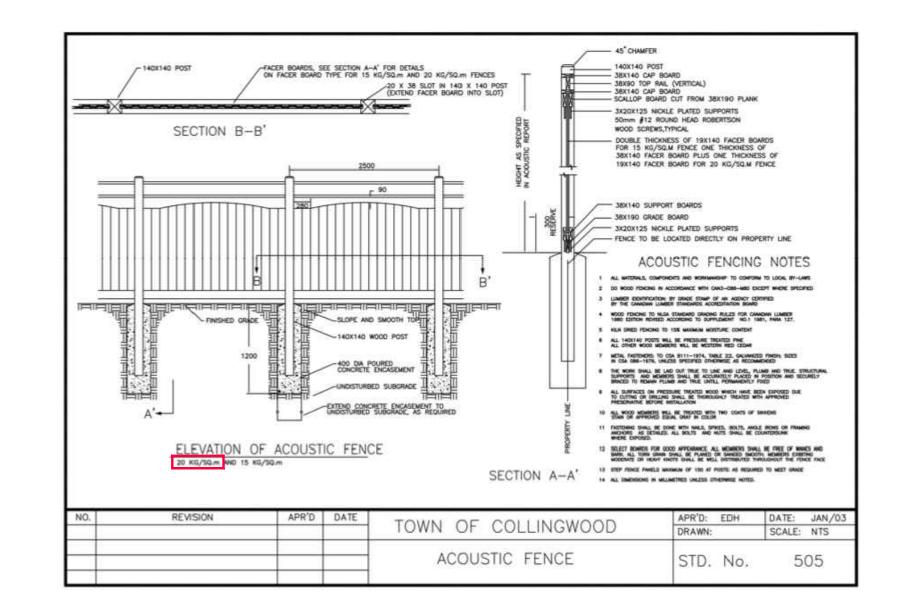
FINAL ACCEPTANCE

ALL WORK SHALL BE INSPECTED AT THE END OF THE GUARANTEE PERIOD BY THE LANDSCAPE ARCHITECT. ANY DEFICIENCIES SHALL BE RECTIFIED BY THE CONTRACTOR TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND THE OWNER. THE LANDSCAPE ARCHITECT WILL THEN ISSUE A FINAL ACCEPTANCE

SHOULD LOCAL LAW REQUIRE MUNICIPAL ACCEPTANCE, THE LANDSCAPE ARCHITECT WILL SUBMIT THE FINAL ACCEPTANCE CERTIFICATE TO THE MUNICIPALITY SO THAT THEY MAY PROCEED TO INSPECT THE WORK, GIVE FINAL APPROVAL, AND RELEASE ALL OUTSTANDING LANDSCAPE SECURITIES.

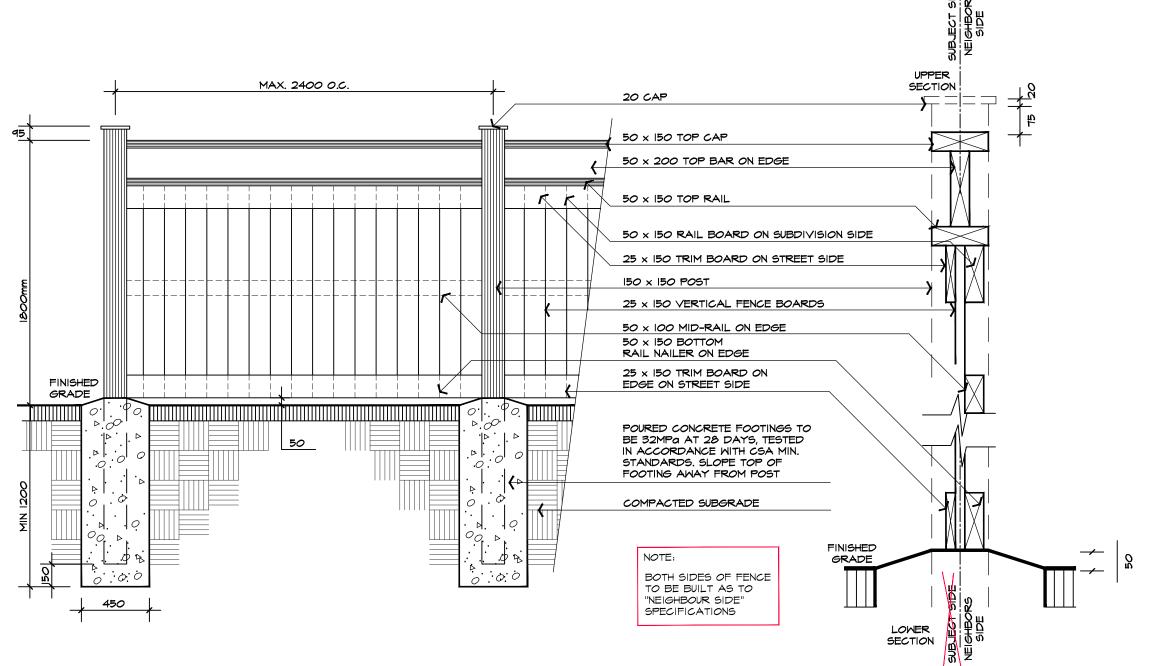


ASPHALT PATHWAY DETAIL NTS TOWN OF COLLINGWOOD DETAIL



ACOUSTIC WOOD FENCE DETAIL

TOWN OF COLLINGWOOD DETAIL



FENCE ELEVATION (FROM STREET SIDE) FENCE VERTICAL SECTION SCALE: 1:25 SCALE: I:10 GENERAL NOTES 450Φ CONCRETE FOOTING 150 × 150 POST USE NO.1 GRADE CEDAR OR PRESSURE TREATED RED PINE, JACK PINE OR /50 x 150 TOP RAIL APPROVED EQUAL WOOD, FREE OF BENDS, LARGE KNOTS, HOLES, AND WARPING. 2. APPLY TWO COATS OF STAIN. COLOUR TO BE APPROVED BY OWNER 50 x 150 NAILER 3. ALL LUMBER DIMENSIONS ARE NOMINAL 25 x 150 VERTICAL BOARDS 4. SECURE ALL LUMBER WITH GALVANIZED NAILS 5. TOE NAIL ALL RAILS WITH TWO NAILS ON EACH END. SUBJECT SIDE

WOODEN PRIVACY FENCE TYPICAL INSTALLATION

APPROVED COLOUR AND STYLE OF

CONCRETE UNIT PAVERS OR PRE-CAST

BROOM CLEAN SAND INTO ALL JOINTS

AFTER INSTALLATION AS PER THE

MANUFACTURER'S SPECIFICATIONS

ON ALL SIDES OF PAVER AREA NOT

FINISHED GRADE

COURSE SAND

CONCRETE UNIT PAVER DETAIL

TYPICAL INSTALLATION

GRANULAR 'A' BASE

COMPACTED TO 98% S.P.D.

SUBGRADE MATERIAL COMPACTED TO 95% S.P.D

CONCRETE SLABS AS SPECIFIED ON PLAN

"PAVE-EDGE" PREMANUFACTURED EDGING (OR APPROVED EQUAL) SET IN PLACE

BOUND BY AN ADJACENT HARD SURFACE

NTS

ABAL H301-070613

BUTT JOINTS TIGHT AS DICTATED BY DESIGN

6. ALL FENCE FOOTINGS TO BE ENTIRELY LOCATED ON TOWNHOUSE SIDE.

32 MPA POURED CONCRETE -EXPANSION JOINTS EVERY 6000mm CONTROL JOINTS EVERY 1500mm, BROOM FINISH AND TROWEL JOINTS UNLESS OTHERWISE SPECIFIED. INSTALL I9mm EXPANSION JOINTS ADJACENT TO CONCRETE CURBS AND BUILDING WALLS AS REQUIRED. 150 x 150mm WELDED WIRE MESH MIN. 50mm COVER ALL AROUND OR FIBER MIXTURE CONCRETE FINISHED GRADE GRANULAR 'A' BASE COMPACTED TO 98% S.P.D. SUBGRADE MATERIAL COMPACTED TO 95% S.P.D.

FENCE PLAN SECTION

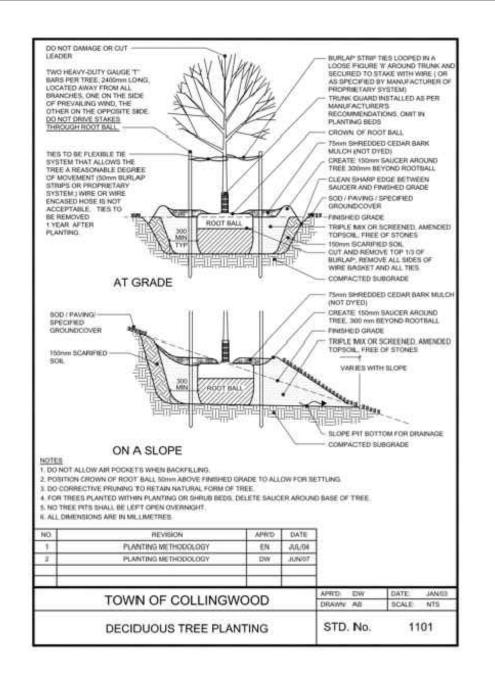
NTS

CONCRETE WALKWAY DETAIL TYPICAL INSTALLATION

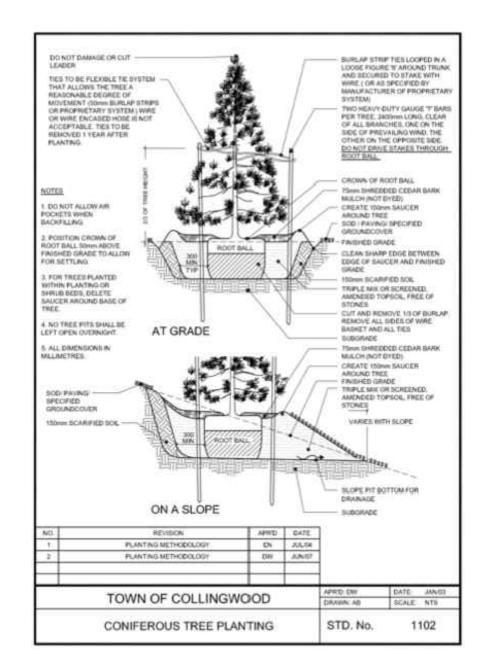
NTS ABAL H201-000529

SCALE: 1:20

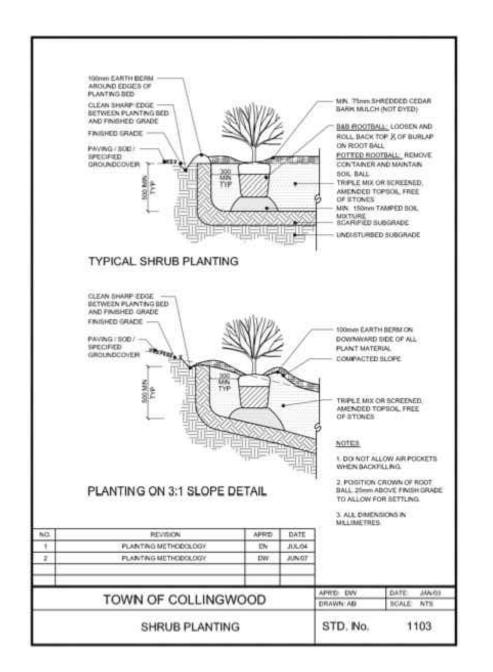
ABAL F308-210707



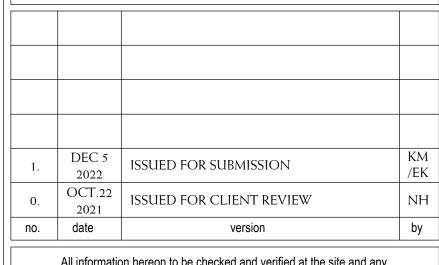
#### DECIDUOUS TREE PLANTING DETAIL NTS TOWN OF COLLINGWOOD DETAIL



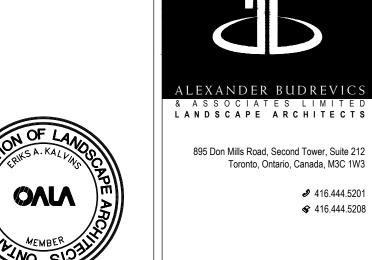
#### CONIFEROUS TREE PLANTING DETAIL NTS TOWN OF COLLINGWOOD DETAIL



SHRUB PLANTING DETAIL TOWN OF COLLINGWOOD DETAIL



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www.budrevics.com 11589 HIGHWAY 26

**CRANBERRY MARSH ESTATES** HIGHWAY 26

drawing

NTS

TOWN OF COLLINGWOOD

CRANBERRY MARSH ESTATES

LANDSCAPE DETAILS & SPECIFICATIONS

OCT 20, 2021 scale\* AS SHOWN 3523 D1 V1-221205 direction project no. 3523 sheet no.



BIKE RACK

MAGLIN 350 SERIES BIKE RACK (5 RINGS)

GUTTER AND SUBDRAIN
PER DWG. No. GGO WHERE
NO BIGSTWALE

O.3m

O.3m

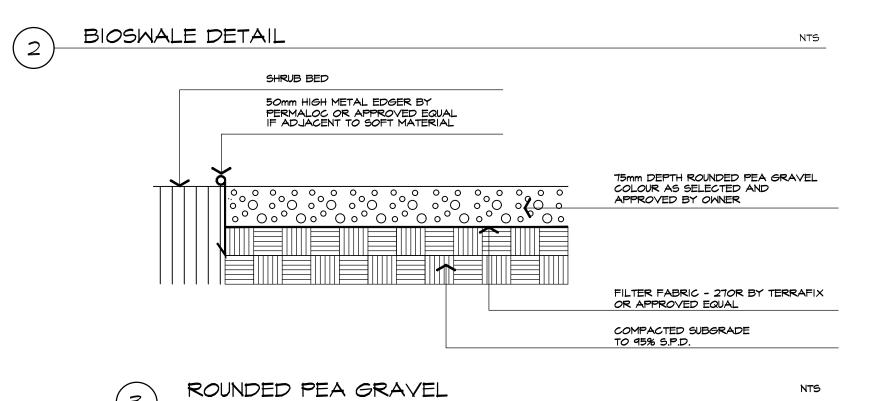
CATCHBASIN

CURB CUT (+0.05m)

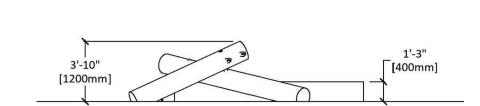
PEA GRAVEL DIAPPRAM AT CURB CUT
LOCATIONS, 300mm WIDE & 600mm DEEP
OVER FILTER FABRIC

UNDERDEAD FOR CLEANOUT AND
MONITORING.

O.30m



28'-11" [8800mm] 14'-11" [4500mm]

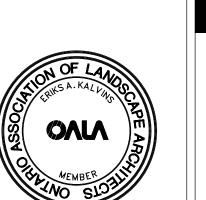


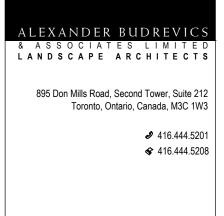
LOG PILE PLAY EQUIPMENT

EARTHSCAPE "LOG PILE 3.1"

1.	DEC 5 2022	ISSUED FOR SUBMISSION	KN /Ek
0.	OCT.22 2021	ISSUED FOR CLIENT REVIEW	NH
no.	date	version	by

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projec

ABAL H604 - 000918

11589 HIGHWAY 26 CRANBERRY MARSH ESTATES

HIGHWAY 26 TOWN OF COLLINGWOOD

CRANBERRY MARSH ESTATES

drawing

# LANDSCAPE DETAILS

LANDSCALL	DETRIES
date OCT 20 , 2021	drawn NH
scale* AS SHOWN	file 3523 D2 V1-221205
direction	project no.
	3523
	sheet no.
	D-2