

CLIENT: A.S.A. PROJECT: 202501 - APPROVED PROJECT: 202501A, 277-279 HAZEL STREET - WATERLOO, ONTARIO. DATE: 17 MAR 25. 4:58 PM. C:\A\202501\202501A\277-279 HAZEL STREET - WATERLOO.DWG

- Plant Characteristics, Rootballs, Rootball Standards including minimum rootball diameters specified on these plans are to be in accordance with the Canadian Nursery Landscape Association Canadian Standards for Nursery Stock, current edition.
- Planting shall only be performed when weather and soil conditions are suitable for planting the materials specified in accordance with locally accepted practice. Install plant materials during the planting time as described below unless otherwise approved in writing by Landscape Architect. In the event that the Contractor request planting outside the dates of the planting season, approval of the request does not change the requirements of the warranty.
 - Deciduous Trees: April 1 - June 30 and September 1 - October 31
 - Deciduous Shrubs: April 1 - June 30 and September 1 - October 31
 - Perennials and Groundcover: April 1 - June 30 and September 1 - October 31
 - Evergreen Trees and Shrubs: April 1 - June 30 and September 1 - October 31
- Transportation of plants should be restricted to closed vans or trucks covered with mesh tarpaulin or, similar material, to protect the leaves or needles from windburn or desiccation. This may be supplemented by spraying the foliage with an antidesiccant prior to shipping.
- Plant material shall at no time be dropped or handled roughly.
- Protect plant material from frost, excessive heat, wind and sun following delivery.
- Immediately store and protect plant material, which will not be installed within 1 hour after arrival at site in storage location, approved by the Landscape Architect.
- Protect stored plant material from frost, wind and sun and as follows: For pots and containers, maintain moisture level in containers.
- For balled and burlapped and wire basket root balls, place to protect branches from damage. Maintain moisture level in root zones.
- Topsail or plantings shall not be placed or installed when in a frozen condition, under adverse field conditions such as high wind, frozen soil or soil covered with snow, ice, or standing water.
- The Landscape Architect and Municipal Staff has the right to reject any and all plant material that does not conform to the requirements of this specification at any time regardless of any previous approval.
- When a plant has been rejected, immediately remove it from the area of the Work and replace it with a plant of the required species, size and quality at the earliest planting period consistent with these specifications. Replacement plant material shall meet all the requirements of this specification. Rejected plants shall be replaced at no cost to the Owner.
- Acceptance shall not be given for the planting Work until all plants rejected during the course of the Work are replaced.
- Any plant that has the following characteristics shall be cause for rejection:
 - Only nursery grown plants will be accepted.
 - Any plant that has a canopy with 25% or more dead or removed limbs.
 - Evidence of damage to plant material, which diminishes the aesthetic character/form, biological integrity, or structural integrity of the plant or group of plants.
 - Evidence of improper digging; inadequate protection following digging; carelessness while in transit; evidence of desiccation or wind-related damage; cold damage; improper handling or storage; root zones that have died to the point of leaf wilt; cracked, loose, damaged or distorted root balls.
 - Plants with undersized root balls or containers, kinked or girdling roots, matted roots on the top, and edges of the container, excessive surface adventitious roots, root balls and containers with no structural roots in the top 75mm of the soil.
 - Plants balled with synthetic, treated or non-biodegradable fabrics.
 - Any tree that is of a species that characteristically has a dominant central leader, and if the leader is dead or removed, the tree will not have a form consistent with the species.
 - Any tree that has open wounds (not completely healed over) that penetrates the cambium into the wood on trunks or major limbs the removal of which would result in the loss of 25% or more of the structure and form of the tree
- Topsail shall be loose, friable, fertile loamy material that is free from subsoil, weeds, roots, vegetation and other deleterious material greater than 25mm diameter in the greatest dimension. The topsail shall also be certified by an OMAFRA Accredited Soil Testing Laboratory in Ontario to meet the following requirements:
 - Topsail texture shall be loam, sandy loam to with:
 - Sand content between 20-75%
 - Silt content between 5-30%
 - Clay content between 5-30%
 - Herbicides - No detectable levels
 - Organic Matter content between 4-15%
 - Phosphorus 10-60 (ppm)
 - Potassium 80-259 (ppm)
 - Calcium 1000-4000 (ppm)
 - Magnesium 100-300 (ppm)
 - Chloride <100 (ppm)
 - Sodium <200 (ppm)
 - Sodium Adsorption Ratio <15
 - Shall not have contaminants that adversely affect plant growth.
 - The cost to amend existing on-site topsail to be reused shall be paid for by the Owner.
 - The cost to amend imported topsail supplied by the Contractor to meet Agronomist written recommendations shall be paid for by the Contractor.
- Water shall not have contaminants or impurities that would adversely affect the germination and growth of vegetation. Proposed plants which come over or under any utility shall be relocated by the Contractor for review by the Landscape Architect, to the satisfaction of the utility provider.
- Mulch shall be shredded hardwood or softwood as specified in the planting details. Free from roots, leaves, twigs, debris, stones, fungus, crabgrass rhizomes, or any material detrimental to plant growth. Material shall be mulching grade, uniform in size and foreign matter. Mulch that has become saturated with water and presents an anaerobic odor shall be rejected.
- Anti-Desiccant (if used) shall be emulsion type, film-forming agent similar to Dowax by Dow Chemical Company, or Wilt-Pruf by Nursery Specialty Products, Inc., Croton Falls, New York, designed to permit transpiration but retard excessive loss of moisture from plants. Deliver in manufacturer's fully identified containers and use in accordance with manufacturer's instructions. Submit manufacturers product data for approval.
- Contractor to examine the surface grades and soil conditions for any circumstances that might be detrimental to plant growth, such as deposits of construction-related waste or soil contamination, storage of material or equipment, soil compaction or poor drainage. Contractor to examine the grading, verify all elevations, and notify the Landscape Architect in writing of any unsatisfactory conditions.
- Contractor to inspect each plant after delivery and prior to installation for damage of other characteristics that may cause rejection of the plant.
- Excavate pits, beds, and trenches with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify the Consultant before planting. Dispose of subsoil removed from planting excavations. Do not mix with planting soil or use as backfill. Plants to be planted in prepared planting soil may utilize the soil removed from the planting hole as backfill around the root ball.
- Set edge of the root ball at the elevation of the proposed finish. Consult the grading plan and utilize a builder's level or transit to determine the grade at the tree grade. For trees on sloped surfaces, set the edge of the root ball at the average grade around the tree. Set the plant plumb and in the location indicated on the plan. The root flare and tree graft, if applicable, shall be visible at the top of the root ball, above the grade. Do not place soil on top of the root ball and remove soil pushed above root flare by mechanical potting/balled & burlapping process during transplantation by the nursery.
- When set, brace root ball by tamping backfilled soil around the lower portion of the root ball. Place additional backfill around base and sides of ball in 150mm lifts. Work each lift to settle backfill and eliminate voids and air pockets. When excavation is approximately two-thirds full, water thoroughly before placing remainder of backfill. Ropes or strings on top of ball shall be cut and removed. Burlap or cloth wrapping shall be cut and removed from the top of the root ball. The top horizontal ring of support wire baskets shall be cut in four places and the top half of the wire basket folded down into the soil.
- Where staking is required, caliper trees shall be supported by wooden stakes driven outside the ball in line with the direction of the prevailing wind. Tree tie type and installation method to be per planting detail. Stakes shall be 50mm x 50mm hardwood stakes free of knots and of lengths appropriate to the size plant required for to adequately support the plant.
- Tree Guard type and installation per planting detail.
- Maintain all trees and shrubs in a plumb position throughout the warranty period. Straighten all trees including those not staked. Plants to be staked shall be excavated and the root ball moved to a plumb position, and then re-backfilled. Do not straighten plants by pulling the trunk with guys.
- Do not apply any fertilizer to plantings during the first year after transplanting, unless soil tests determine that fertilizer or other chemical additives are required. If required, fertilizers shall be applied according to the manufacturer's instructions and standard horticultural practices.
- Pruning shall be done with clean, sharp, rust-free tools. Cuts shall be made flush, leaving no stubs as per ANSI A 300 - current edition. No tree paint or sealants shall be used.
- Dead wood, suckers, and broken and badly bruised branches shall be removed. Do not prune plant material that has been severely damaged due to transit or handling until viewed by the Landscape Architect.
- Pruning of broken or dead branches shall be done after planting. Form-corrective pruning may occur when tree has hardened until bud-break in the spring. If corrective pruning dates fall outside the construction schedule, it shall remain a punch list (warranty) item. The Contractor shall be responsible for completing this off-season punch list (warranty) item.
- Mulch top of root balls and planting beds, covering the entire planting bed area. Leaving a mulch free zone at stem/trunk as indicated in planting details.
- Water each plant on the day of installation to saturate the soil around the roots and wash the soil into the root zone. After the soil has drained, reset any settled plants or grades around the plant, adding soil if required.

- Sod shall be a No. 1 Commercial Grade Turfgrass Nursery Sod, Kentucky Bluegrass/Fine Fescue according to the Classifications and Use of Turfgrass Sod for Ontario.
- Sod shall be seeded and established in nursery sod fields as a turfgrass sod.
 - Sod shall be uniform in texture, and in good healthy condition with no sign of decay.
 - There shall be no more than 5 broadleaf weeds per 40 m2 of sod and up to 20% non-specified grass seed.
 - Sod shall be of sufficient density that no surface soil is visible. The grass height shall be 30 mm minimum and 70 mm maximum.
- The soil portion of the sod shall be a good mineral type soil with a thickness of 10 mm minimum and 15 mm maximum.
- Each sod piece shall be well permeated with roots. Individual sod pieces shall be in such condition so that each may be lifted, rolled, transported, and placed without breaking or tearing and without loss of soil under normal handling conditions.
- Sod shall contain sufficient moisture to maintain its vitality during transportation and placement.
- Topsail shall be loose, friable, fertile loamy material that is free from subsoil, weeds, roots, vegetation and other deleterious material greater than 25mm diameter in the greatest dimension. The topsail shall also be certified by an OMAFRA Accredited Soil Testing Laboratory in Ontario to meet the following requirements:
 - Topsail texture shall be loam, sandy loam to with:
 - Sand content between 20-75%
 - Silt content between 5-30%
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 - Sodium Adsorption Ratio <15
 - Shall not have contaminants that adversely affect plant growth.
 - The cost to amend existing on-site topsail to be reused shall be paid for by the Owner.
 - The cost to amend imported topsail supplied by the Contractor to meet Agronomist written recommendations shall be paid for by the Contractor.
- Water shall not have contaminants or impurities that would adversely affect the germination and growth of vegetation.
- Sod shall not be separated from its mineral soil base and not damaged during transportation, handling, and placement.
- Surface litter and debris shall be removed immediately prior to topsail or sod placement.
- Topsail or sod shall not be placed when in a frozen condition, under adverse field conditions such as high wind, frozen soil or soil covered with snow, ice, or standing water.
- Topsail shall be placed, spread and leveled as required to match grades as indicated in the grading drawings prepared by the Project Civil Engineer and to allow for positive drainage away from pathways and structures.
- Minimum consistent depth for topsail in areas to be sodded after settlement shall be 200mm deep.
- At the time of sodding, all surface areas designated for sodding shall be free of erosion and shall have a fine graded uniform surface. The surface shall be uniformly cultivated to a minimum depth of 50 mm and shall not have surface materials greater than 25 mm in size, such as stones and clods and weeds or other unwanted vegetation.
- Sod shall be placed in locations and as specified in the landscape drawings.
 - Voids shall not be left between the soil portion of the sod and the underlying ground surface.
 - Sod shall be securely placed lengthwise across the face of slopes and parallel to the centreline of ditches.
 - End joints of adjacent sod pieces shall be staggered.
 - The edges of adjacent sod pieces shall be placed tightly against one another without overlapping.
 - Sod shall be countersunk to existing grade level at all edges.
 - Butt joints will be used where new sod blends with existing grass; lap joints will not be permitted.
 - Joints shall be tamped to a uniform surface.
 - Where required, sod should be staked to the grade to avoid movement.
- Sod shall be maintained by the Contractor as part of base price during the establishment period (30 Days) following completion of placement. During this period, the placed sod shall be kept healthy, actively growing, and green in colour. This requirement shall be suspended during the winter dormant period defined as November 15 to April 15 inclusive. During the establishment period the Contractor will:
 - Install temporary barriers or signage to be maintained where required to protect newly established sod.
 - Water to maintain soil moisture conditions for optimum establishment, growth and health of plant material without causing erosion. In a typical loam soil, optimum soil moisture in planting beds at root depth is 65% of field capacity.
 - Mow to a height of 60mm (2.5") when turf reaches height of 80mm (3") at least twice during the establishment period.
 - If required to control insects, fungus and disease, use appropriate control methods in accordance with Federal, Provincial and Municipal regulations. Obtain product approval from Consultant prior to application.
 - Control outbreaks of perennial weeds and annual weeds by mechanical or chemical means utilizing acceptable integrated pest management practices to meet acceptance/success targets.
 - If chemical means are used, comply with all municipal, provincial, and federal legislation and regulations.

0	ISSUED FOR SITE PLAN APPROVAL	17 MAR-25
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No.	Description	By	Date
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REVISIONS: All previous issues of this drawing are superseded



ABOUT & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
3-5 Edinburg Rd S., Guelph, Ontario . 519.822.6839 . www.aboutandg.com

Title:

LANDSCAPE NOTES

Project:

6-STOREY RESIDENTIAL BUILDING
277-279 HAZEL STREET . WATERLOO

Date: MARCH 2025	Designer: NB . MGN
Project: AA25-025A	Drawn: NB
Scale: AS SHOWN	Checked: MGN



File No:

Drawing No:

LP-2



GENERAL CONCRETE NOTES

-
- PRE-MOULDED JOINT BITUMOUS IMPREGNATED FIBREBOARD TO ASTM D 1751 TO FULL DEPTH OF SLAB
- 5MM WIDE x 1/2 DEPTH THICKNESS OF CONCRETE SLAB SAWCUT CONTRACTION JOINT

CONTRACTION JOINT @ MAX. 2000mm ON-CENTRE
UNLESS OTHERWISE DESCRIBED ON LAYOUT



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Holes are present only when galvanizing option is specified

AVAILABLE OPTIONS:

- POWDER COATING
- 2 STANDARD COLORES, 2 OPTIONAL METALLIC COLORES,
- CUSTOM COLORS (INCLUDING THE RAL RANGE)

NOTES:

1. DOWNHOLE NOT TO SCALE, DO NOT SCALE DRILLINGS.
2. ALL PRECASTED REINFORCING ARE STEEL, GALVANIZED, EPOXY, HOT-DIP GALVANIZED, PREPARED, AND ELECTROLYTICALLY POWDER COATED WITH T.A.C.P. POLYMER POWER COATING. PRODUCTS ARE FULLY CLEANED AND PREPARED, AND CAPTED WELLS NOT TO FILL CREVICES AND BUILD CRACKS UP. GRATE PARTS ARE THEN FULLY CAPED TO CONFIRM MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH WILL VARY 8-10 MILS (200-250 MICRONS).
3. IT IS NOT RECOMMENDED TO LOOSE-ANCHOR BOLTS TO WALL. USE ONLY AS IN PLACE. THIS VECTOR SYSTEM, INC. PRODUCT MUST BE PERMANENTLY ATTACHED TO THE GROUND, CONCRETE OR FOR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLT AND PROCESS OF VICTOR STANLEY, INC.
5. FOR HIGH RISK ADVISORY CLIENTS, NOT-SET GALVANIZING BEFORE POWER COATING IS AVAILABLE. NOT-SET GALVANIZING IS PERFORMED BY VICTOR STANLEY, INC. BY AN EXPERTISED QUALITY STEP FOR WHICH PRODUCTS ARE SHIPPED FOR GALVANIZING. NOT-SET GALVANIZING INCLUDES AN ADHESIVE PRE-TREATMENT AND IMMERSION IN A TANK OF CHARGED LIQUID ZINC AT 400-450 MP (HOT). THE RESULTING SURFACE IS RESISTANT TO Rust BUT HAS SOME WEARERS RESULTING FROM THE REMOVAL OF THE ZINC TO THE SURFACE. AS SUCH, THE POWER-COATING SURFACE FOLLOWER OVER THAT GALVANIZED SURFACE MAY OFFER BURSTS, UNIFORMITIES, AND MAY NOT BE AS SUITABLE AS THE STANDARD FINISH. THIS DESIGN AND NONDESTRUCTIVE TESTS IS MANUAL FOR GALVANIZING, CONTACT MANUFACTURER FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

BRC-101
CYCLO SENTRY

BOXE ROCK
DOWN: STANDARD SURFACE MOUNT

OR COUNTER ALTERNATIVE

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Title: _____

Project: _____

Date: MARCH 2025 Designer: NB . MGN

Project: AA25-025A Drawn: NE

Scale: AS SHOWN Checked:



File No.

Drawing No:

LP-3

REVISIONS: All previous issues of this drawing are superceded



Title: _____

Project: _____

Project: _____

Date: MARCH 2025	Designer: NB . MGN
Project: AA25-025A	Drawn: NB
Scale: AS SHOWN	Checked: MGN



Drawing No:

LP-4