

**LANDSCAPE PLAN**  
Scale: 1:500

CODE	NO	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
<b>PLANT LIST - TREES</b>					
<b>STANDARD PLANTING</b>					
119 Deciduous Trees					
ArAS	3	Acer rubrum 'Autumn Spire'	Red Maple	50mm caliper	WB, Staked
ArRR	12	Acer rubrum 'Red Rocket'	Red Rocket Red Maple	70mm caliper	WB, Staked
As	4	Acer saccharum	Sugar Maple	70mm caliper	WB, Staked
AgI	5	Aesculus glabra	Ohio Buckeye	50mm caliper	WB, Staked
AcB	12	Amelanchier canadensis 'Ballerina'	Ballerina Serviceberry (tree form)	45mm caliper	WB, Staked
AI	2	Amelanchier laevis	Allegheny Serviceberry	45mm caliper	WB, Staked
BnFV	17	Betula nigra 'Little King'	Fox Valley River Birch	200cm ht.	Potted
Bpo	1	Betula populifolia	Grey Birch	60mm caliper	WB, Staked
Co	5	Celtis occidentalis	Common Hackberry	60mm caliper	WB, Staked
CcgC	2	Crataegus crus-galli inermis 'Cruzam'	Thornless Crusader Cockspur Hawthorn	200 cm ht	WB, Staked
GbAG	3	Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	60mm caliper	WB, Staked
GbPS	2	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree	70mm cal.	WB, Staked
GtD	6	Gleditsia triacanthos inermis 'Draves'	Streetkeeper Nannylocust	60mm caliper	WB, Staked
Oma	6	Quercus macrocarpa	Bur Oak	70mm caliper	WB, Staked
QrF	4	Quercus robur 'Fastigiata'	Skyrocket English Oak	60mm caliper	WB, Staked
Qr	4	Quercus rubra	Northern Red Oak	70mm caliper	WB, Staked
Sd	4	Sorbus decora	Showy Mountain Ash	45mm caliper	WB, Staked
SIF	2	Sorbus thuringiaca 'Fastigiata'	Pyramidal Mountain Ash	45mm caliper	WB, Staked
SrIP	2	Syringa reticulata 'Ivory Pillar'	Ivory Pillar Tree Lilac	45mm caliper	WB, Staked
UaVF	3	Ulmus americana 'Valley Forge'	Valley Forge Elm	60mm caliper	WB, Staked
UF	4	Ulmus minor x parvifolia 'Frontier'	Frontier Elm	60mm caliper	WB, Staked
ViaT	8	Viburnum lentana (t)	Wayfarer Tree	125cm ht.	Potted
VIT	8	Viburnum lentago (t)	Nannyberry Tree	125cm ht.	Potted
8 Conifers					
Pp	2	Picea pungens	Colorado Spruce	200 cm ht	WB, Staked
Pr	2	Pinus resinosa	Red Pine	200cm ht	WB, Staked
Ps	4	Pinus strobus	Eastern White Pine	200cm ht	WB, Staked

CODE	NO	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
<b>PLANT LIST - SHRUBS</b>					
<b>STANDARD PLANTING</b>					
455 Shrubs					
Cr	8	Cornus racemosa	Gray Dogwood	50 cm ht.	Bare root
HaA	10	Hydrangea arborescens 'Annabelle'	Annabelle Hydrangea	2 gallon pot	0.9m o.c.
Hp	20	Hypericum prolificum	Shrubby St. John's Wort	2 gallon pot	
Jsm	16	Juniperus scopulorum 'Medora'	Medora Juniper	125cm ht	Potted
JsmG	11	Juniperus scopulorum 'Moonglow'	Moonglow Juniper	125cm ht	Potted
PfGD	51	Potentilla fruticosa 'Gold Drop'	Goldfinger Potentilla	2 gallon pot	Potted
PmT	3	Pinus mugo 'Big Tuna'	Big Tuna Mugo Pine	75cm ht.	Potted
PoLD	73	Physocarpus opulifolius 'Little Devil'	Little Devil Ninebark	2 gallon pot	Potted
Rp	12	Rosa palustris	Swamp Rose	50 cm ht.	Bare root
Rr	109	Rosa rugosa	Japanese Rose	3 year	Potted
Rt	4	Rhus typhina	Staghorn Sumac	80cm ht.	Potted, 1.75m
SbG	109	Spiraea bumalda 'Goldflame'	Goldflame Spirea	50cm ht	0.9m o.c.
ToF	17	Thuja occidentalis 'Fastigiata'	Pyramid Cedar	175cm ht	specimen or 0.

CODE	NO	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
<b>PLANT LIST - PERENNIALS</b>					
<b>STANDARD PLANTING</b>					
683 Ornamental Grasses and Flowering Perennials					
PvHM	107	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	3 year	1 gallon pot
CaKF	156	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	3 year	1 gallon pot
Pv	420	Flowering Perennials	Coneflower, Daylily, Black-eyed Susan, Siberian Iris, Beebalm, Sea pink, etc.		

**LEGEND**

- PROPERTY LINE
- CHAIN LINK FENCE
- DECORATIVE FENCE
- LIGHT STANDARD
- PRECAST CONCRETE PAVERS
- CONCRETE PAVEMENT / WALKWAY
- SOD
- DECORATIVE ROCKS
- STREET TREES
- SHRUB BEDS
- ORNAMENTAL GRASSES
- FLOWERING PERENNIALS

- GENERAL NOTES**
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  - Maintain positive surface runoff through the entire construction period.
  - Reinstate all areas and items damaged as a result of construction activities.

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1	Re-Issued for Site Plan Control	2023/09/29
no.	issue / revision	date

seal  
  
 north

**N45 ARCHITECTURE INC.**  
 71 Bank Street, 7th Floor - Ottawa, Ontario, K1P 5N2  
 tel. 613.224.0095 fax 613.224.9811

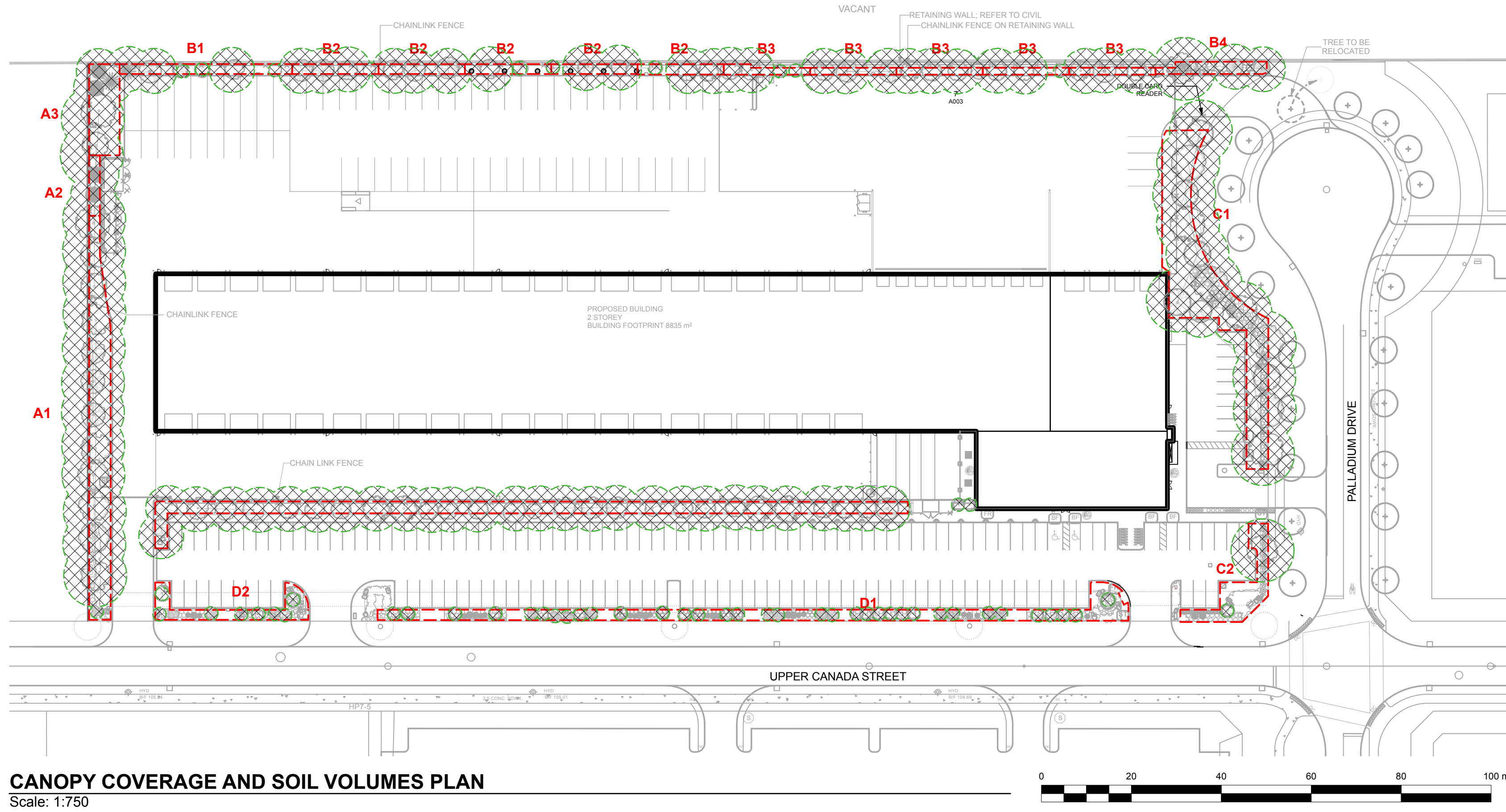
**Ruhland & Associates Ltd**  
 landscape architecture • urban design • site planning  
 Ph 613-224-4744 Fx 613-224-1131 info@rala.ca www.rala.ca

project  
**PUROLATOR DISTRIBUTION KANATA**  
 1400 UPPER CANADA STREET, KANATA, ON

drawing title <b>LANDSCAPE / PLANTING PLAN</b>		
scale As Shown	drawn by T.F./A.A.	designed by A.A./M.R.
date Jun 2023	checked by M. Ruhland	plot date
project number <b>23-1722</b>	drawing number <b>L-01.</b>	

**THESE PLANS / DETAILS ARE ISSUED FOR SITE PLAN CONTROL SUBMISSION ONLY. ADDITIONAL DETAILING AND SPECIFICATIONS ARE REQUIRED PRIOR TO TENDERING OR CONSTRUCTION.**

Contractor to check and verify all dimensions on the job



**CANOPY COVERAGE AND SOIL VOLUMES PLAN**  
Scale: 1:750

**TOTAL CANOPY AREA = 7000m<sup>2</sup>**  
**TOTAL SITE AREA = 31960m<sup>2</sup>**  
**% cover = 22%**

Soil Volume Area, Tree Quantity and Size	Tree Quantity	OTTAWA Target Soil Volume (m <sup>3</sup> )	Design Soil Volume	Soil Adequacy percentage
<b>AREA A1 - 12 large trees, 1 small ornamental tree (15cm Ø)*</b> plant bed (380 sq m x 0.6 metre deep)	13	221.6	228.0	103%
<b>AREA A2 - 2 conifers (continuous)</b> plant bed (32 sq m x 0.8 metre deep)	24	30.0	25.6	85%
<b>AREA A3 - 2 large trees, 3 conifers</b> plant bed (137 sq m x 0.6 metre deep)	5	81.0	82.2	101%
<b>AREA B1 - 1 conifer, 1 medium tree, 1 columnar tree, 4 small ornamental trees (10cm Ø)*</b> plant bed (80 sq m x 0.9 metre deep)	7	53.0	72.0	136%
<b>AREA B2 - 3 medium columnar trees*, 2 small ornamental trees (15cm Ø)* (max)</b> plant bed (42 sq m x 0.9 metre deep)	5	34.3	37.8	110%
<b>AREA B3 - 3 medium columnar trees*, 1 small ornamental trees (15cm Ø)* (max)</b> plant bed (29 sq m x 0.9 metre deep)	4	28.7	26.1	91%
<b>AREA B4 - 1 large tree, 2 conifers, 1 ornamental tree</b> plant bed (61 sq m x 0.9 metre deep)	4	57.0	54.9	96%
<b>AREA C1 - 12 large trees, 1 medium tree</b> plant bed (575 sq m x 0.4 metre deep)	14	246.0	230.0	93%
<b>AREA C2 - 1 large tree, 1 small tree</b> plant bed (140 sq m x 0.4 metre deep)	2	30.0	56.0	187%
<b>AREA D1 - 1 orn tree, 12 small orn trees (15cm Ø)*, 11 small orn trees (10cm Ø)*, 11 small orn trees (8cm Ø)*</b> plant bed (450 sq m x 0.4 metre deep)	24	166.9	180.0	108%
<b>AREA D2 - 2 orn trees, 2 small ornamental trees (15cm Ø)*, 3 small ornamental trees (8cm Ø)*</b> plant bed (96 sq m x 0.45 metre deep)	7	39.7	43.2	109%
<b>AREA E - 16 medium trees, 12 columnar trees</b> plant bed (456 sq m x 0.7 metre deep)	28	348.0	319.2	92%

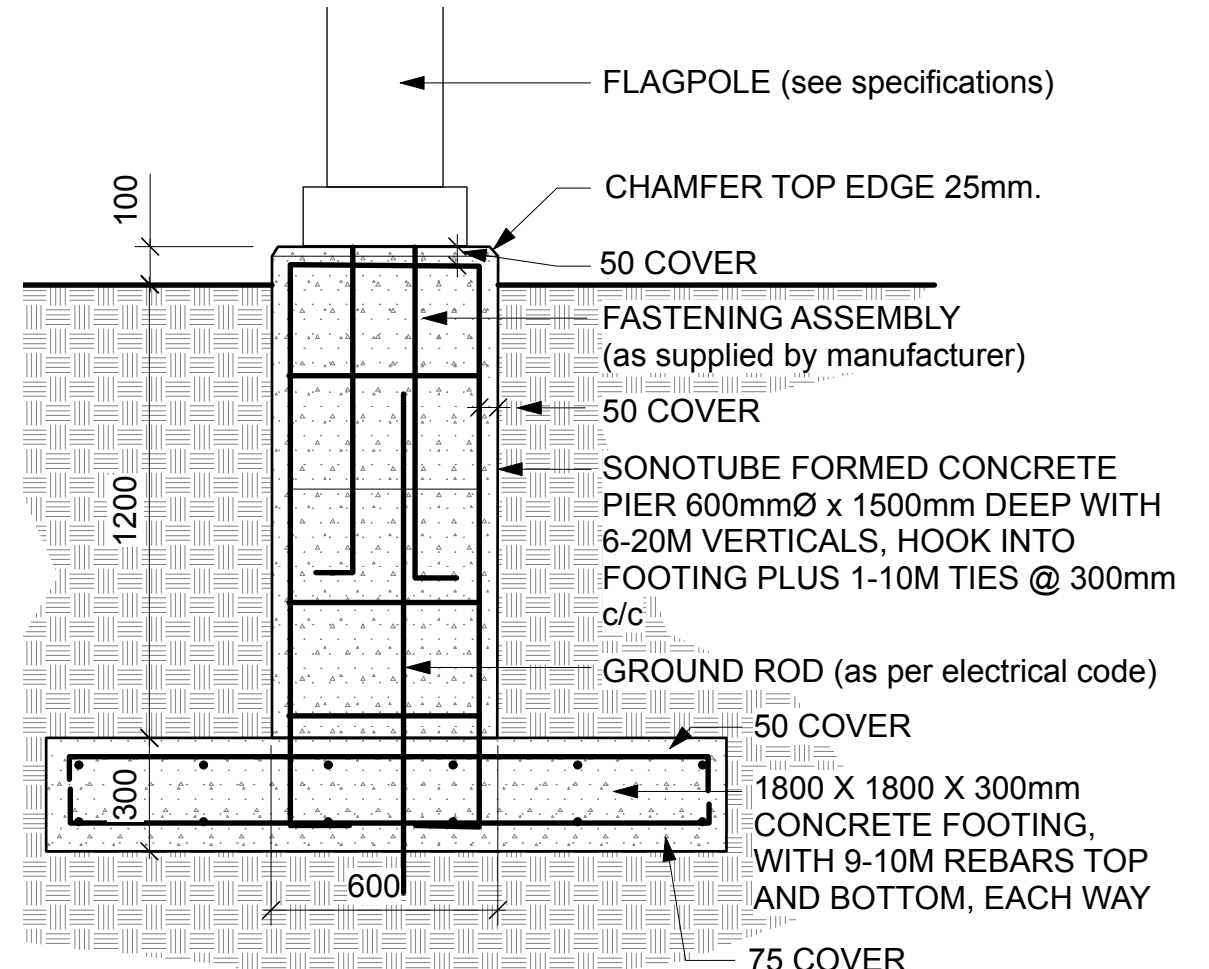
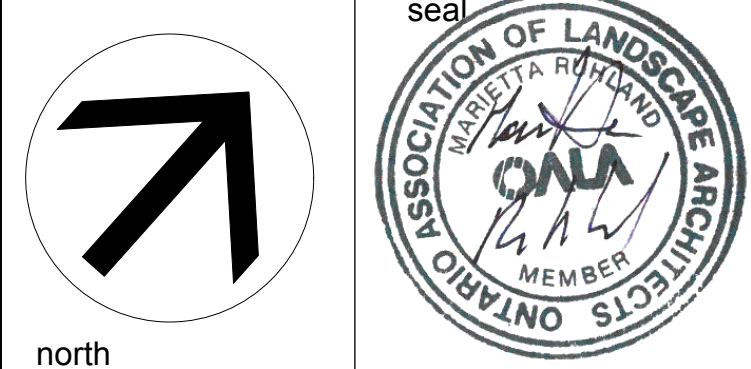
\* Smaller columnar trees, small ornamental trees with growth to 8-15cm DBH, large shrubs, and columnar conifers calculated using 'How much soil to grow a big tree' by DeepRoot as a guide



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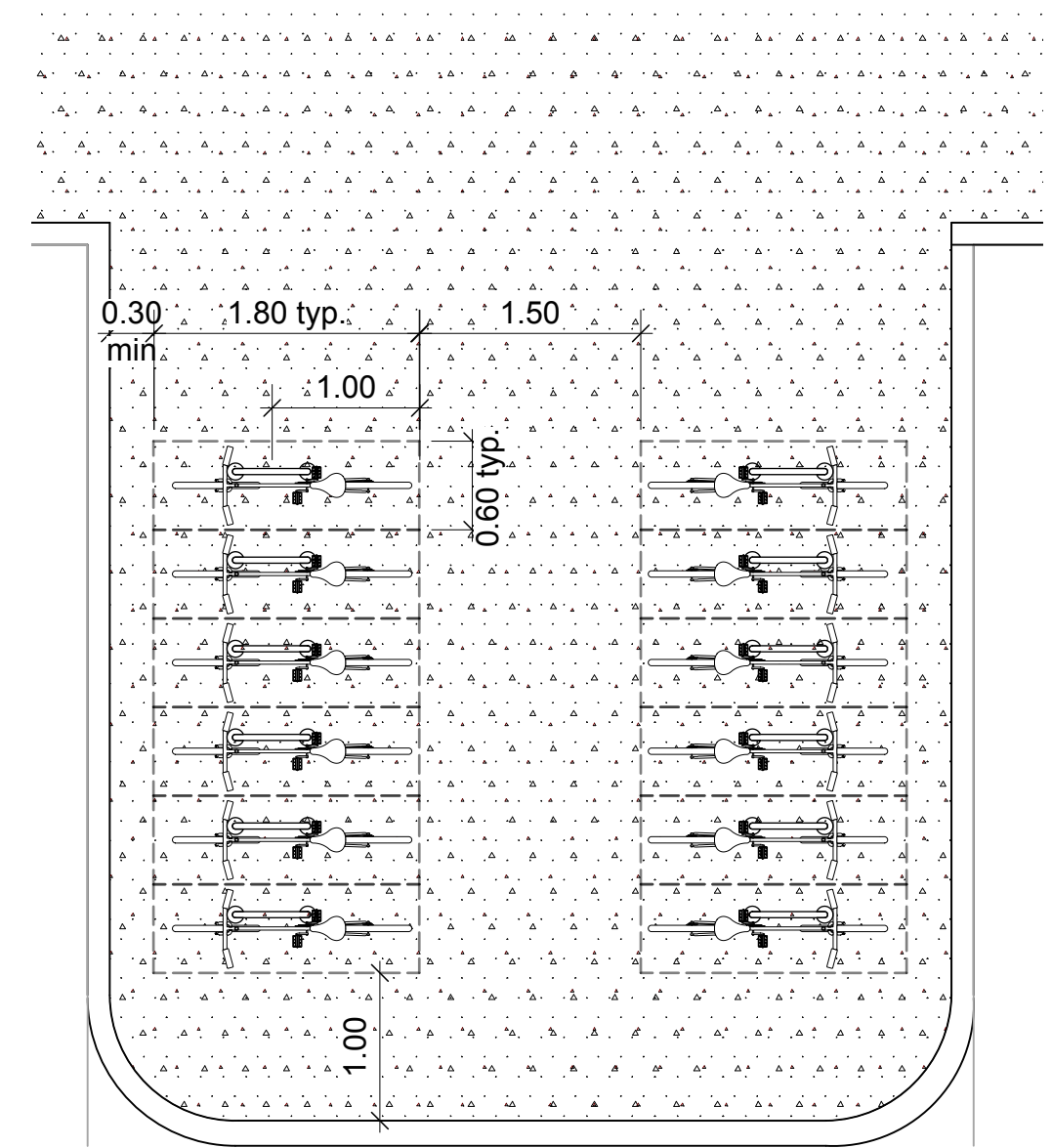
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no.	issue / revision	date



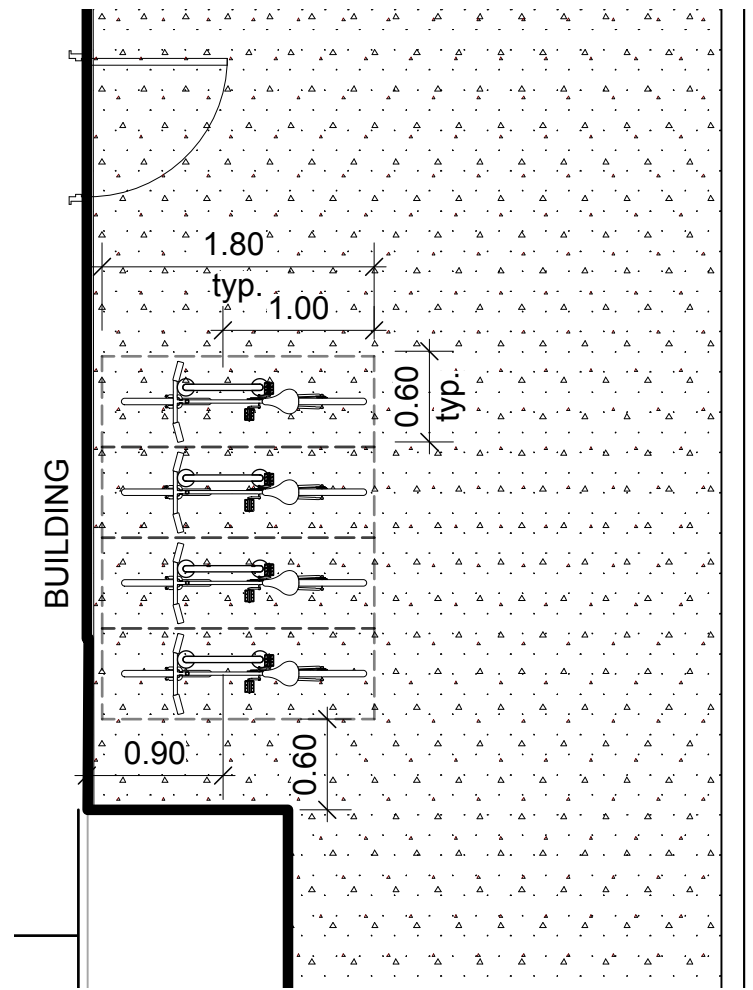
**NOTE:**

- CONCRETE IN PIER TO BE CLASS C-2 (32MPa, AIR 5-8%).
- CONCRETE IN FOOTING TO BE 25MPa.
- ALL EXPOSED SURFACES TO BE LIGHTLY SANDBLASTED.
- ALL REBARS TO BE EPOXY COATED.
- INSTALL FLAGPOLE AS PER MANUFACTURER'S SPECIFICATIONS

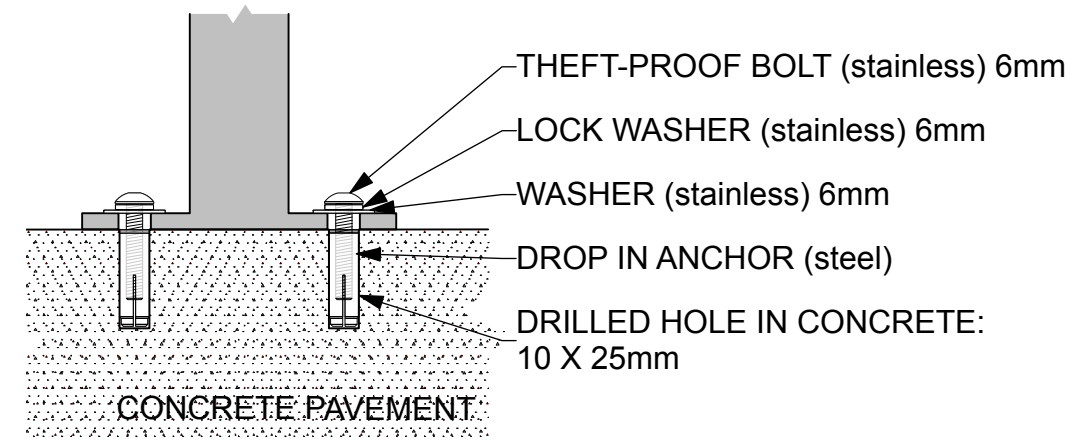
**1 FLAGPOLE FOOTING**  
Scale: NTS  
DETAILS ARE SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL, REVIEWED / STAMPED BY AN ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.



**ENL1 BIKE RACK 1 LAYOUT**  
Scale: 1:50



**ENL2 BIKE RACK 2 LAYOUT**  
Scale: 1:50



**2 BIKE RACK INSTALLATION**  
Scale: NTS  
DETAILS ARE SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL.

**500 SERIES**  
MBR-0500-00003  
Legacy #MBR500-S

**Sustainability Facts**

Unit Size	One (1) MBR-0500-00001 Bike Rack
Carbon Footprint (GWP)	103 kg CO <sub>2</sub> -Eq <i>Measured in kilograms of carbon dioxide equivalent</i>
Total energy use (TPE)	1770 MJ-Eq <i>Measured in megajoules of energy equivalent</i>
Water use (WDP)	0.843 m <sup>3</sup> water <i>Measured in cubic metres of water</i>
Material recyclability	100%
LEED v4.1 Credits	
Type III Environmental Product Declaration	
Material Inventory	
Low VOC finishes	
Free of Red List substances	

Full EPD can be reviewed for more information: <https://www.epdregistration.com/maglin/>

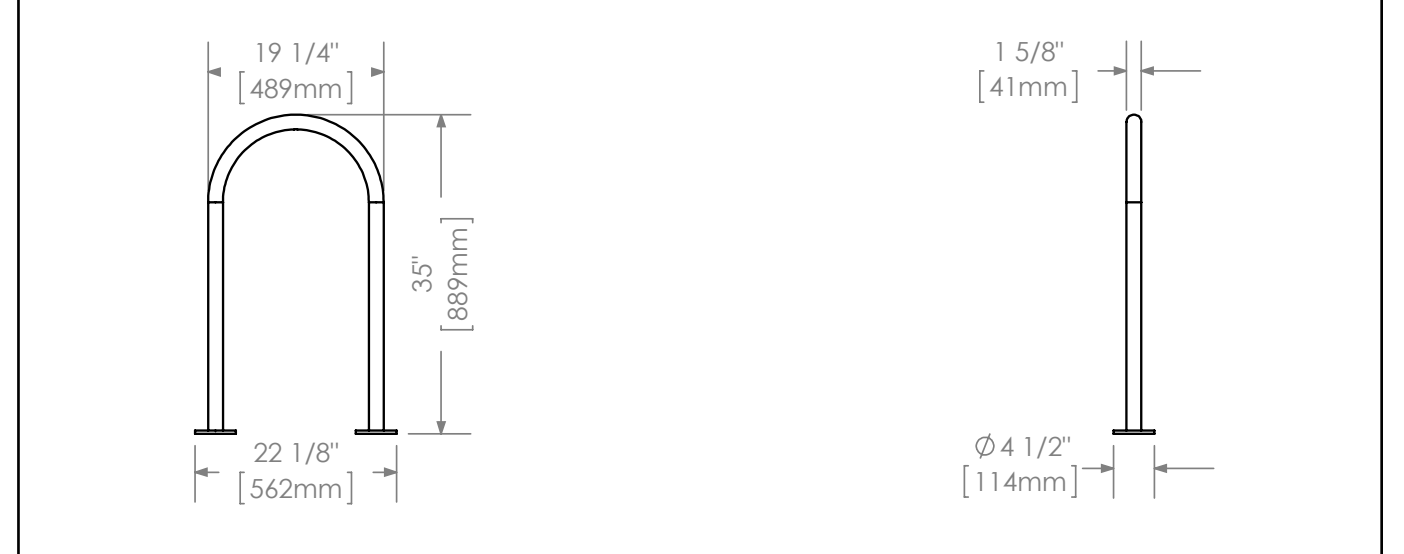
**DESCRIPTION:** 500 Series - 500 Bike Rack: H.S. Steel Tube, Surface Mount, 2 Bike Configuration

**FINISH:** All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

**INSTALLATION:** The bike rack is delivered pre-assembled. It is available with either a surface mount or direct burial installation option.

**TO SPECIFY:** Select MBR-0500-00003  
Choose:  
- Powdercoat Color

HEIGHT: 35" (88.9cm)      LENGTH: 19.25" (48.9cm)      WEIGHT: 13.27 lbs (6.0kg)



**MAGLIN**  
Site Furniture

T 800 716 5606  
F 877 260 9393  
[www.maglin.com](http://www.maglin.com)  
[sales@maglin.com](mailto:sales@maglin.com)

All drawings, specifications, design and details on this page remain the property of Maglin Site Furniture Inc. and may not be used without Maglin authorization. Details and specifications may vary due to continuing improvements of our products.

**3 MAGLIN BIKE RACK MRB-0500**  
Scale: NTS

**N45 ARCHITECTURE INC.**  
71 Bank Street, 7th Floor - Ottawa, Ontario, K1P 5N2  
tel. 613.224.0095 fax 613.224.9811

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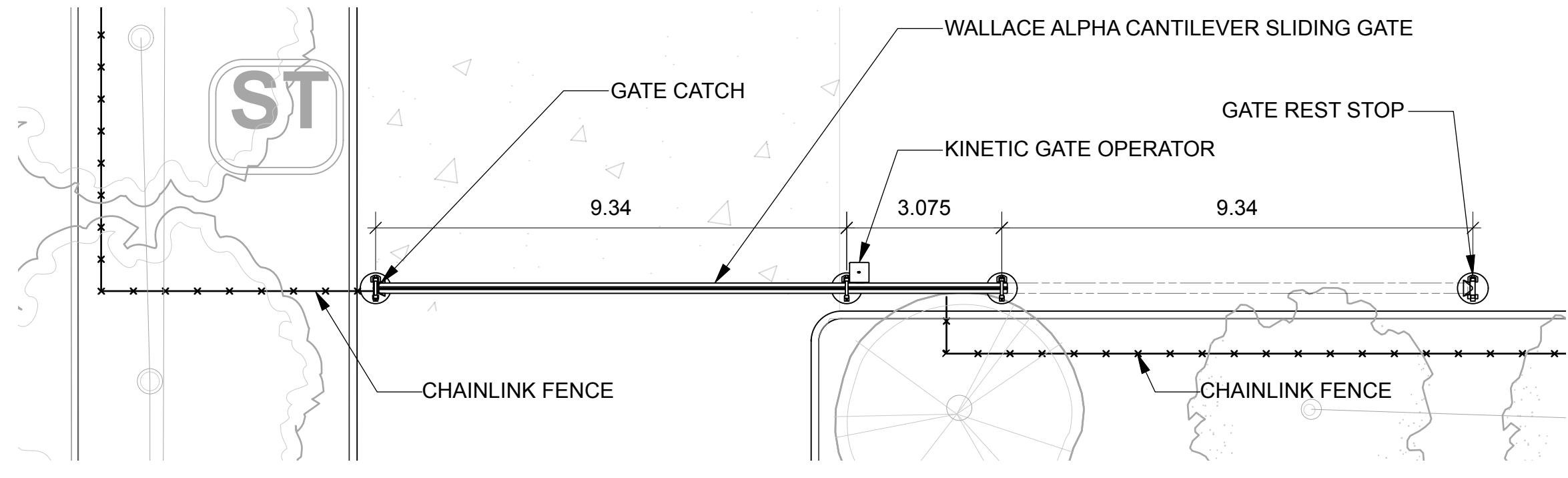
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1400 UPPER CANADA STREET, KANATA, ON

**CANOPY COVERAGE, SOIL VOLUME & DETAILS**

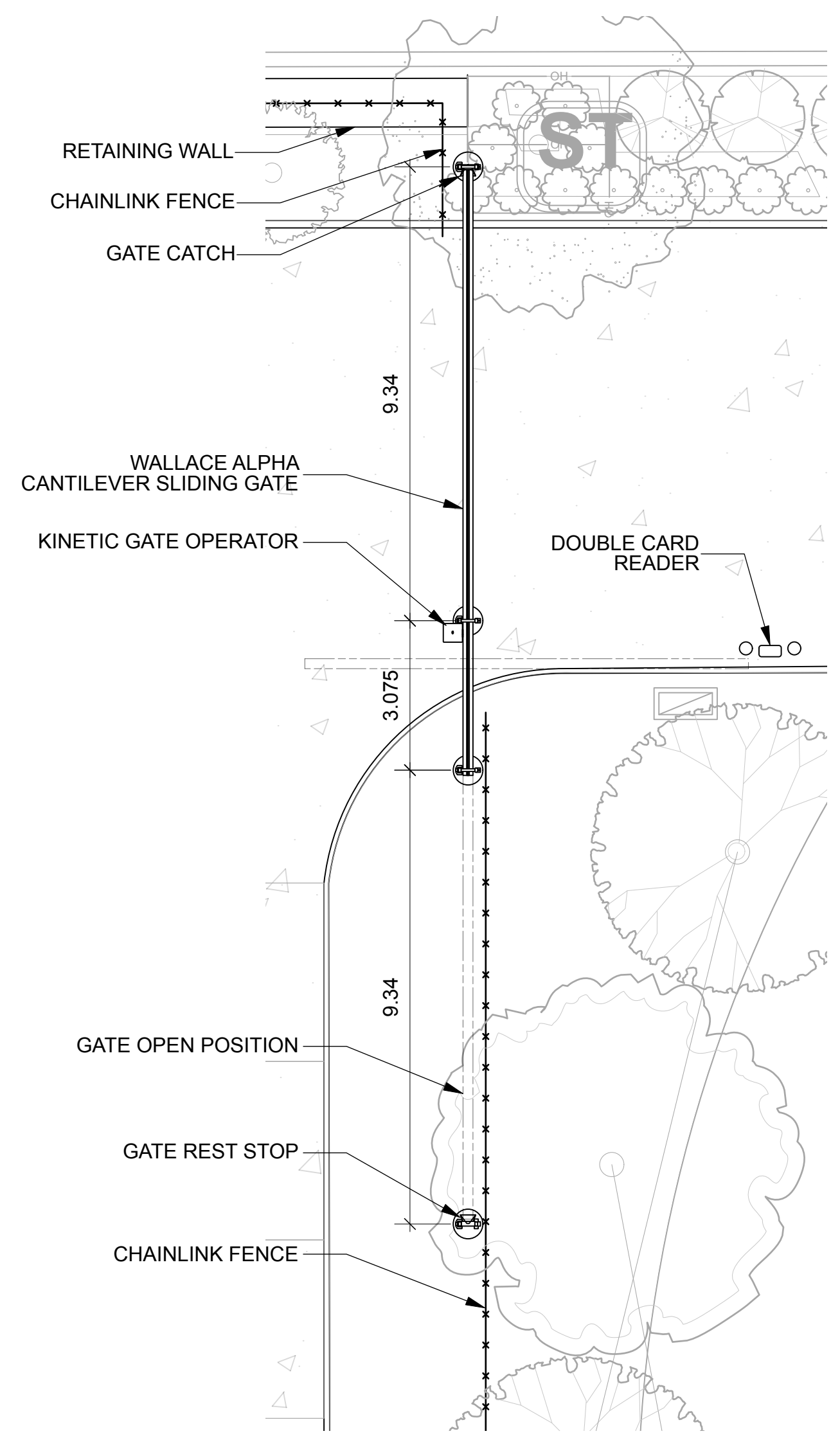
scale As Shown	drawn by T.F./A.A.	designed by A.A./M.R.
date Jun 2023	checked by M. Ruhland	plot date
project number <b>23-1722</b>	drawing number <b>L-02.</b>	

Contractor to check and verify all dimensions on the job

CITY'S FILE NO.: 007-12-20-0125

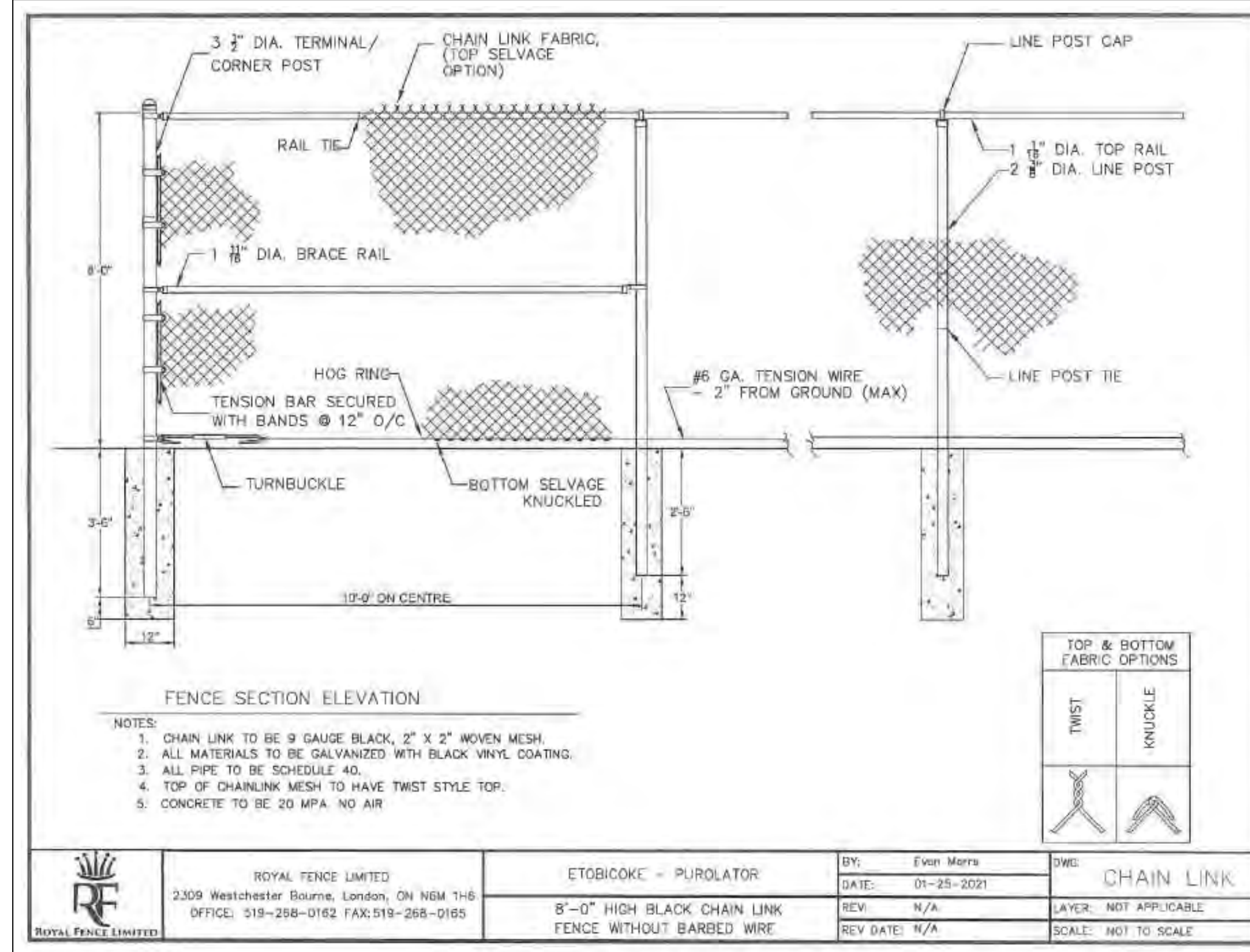


**ENL1 SOUTH-WEST GATE**  
L-03 Scale: 1:100

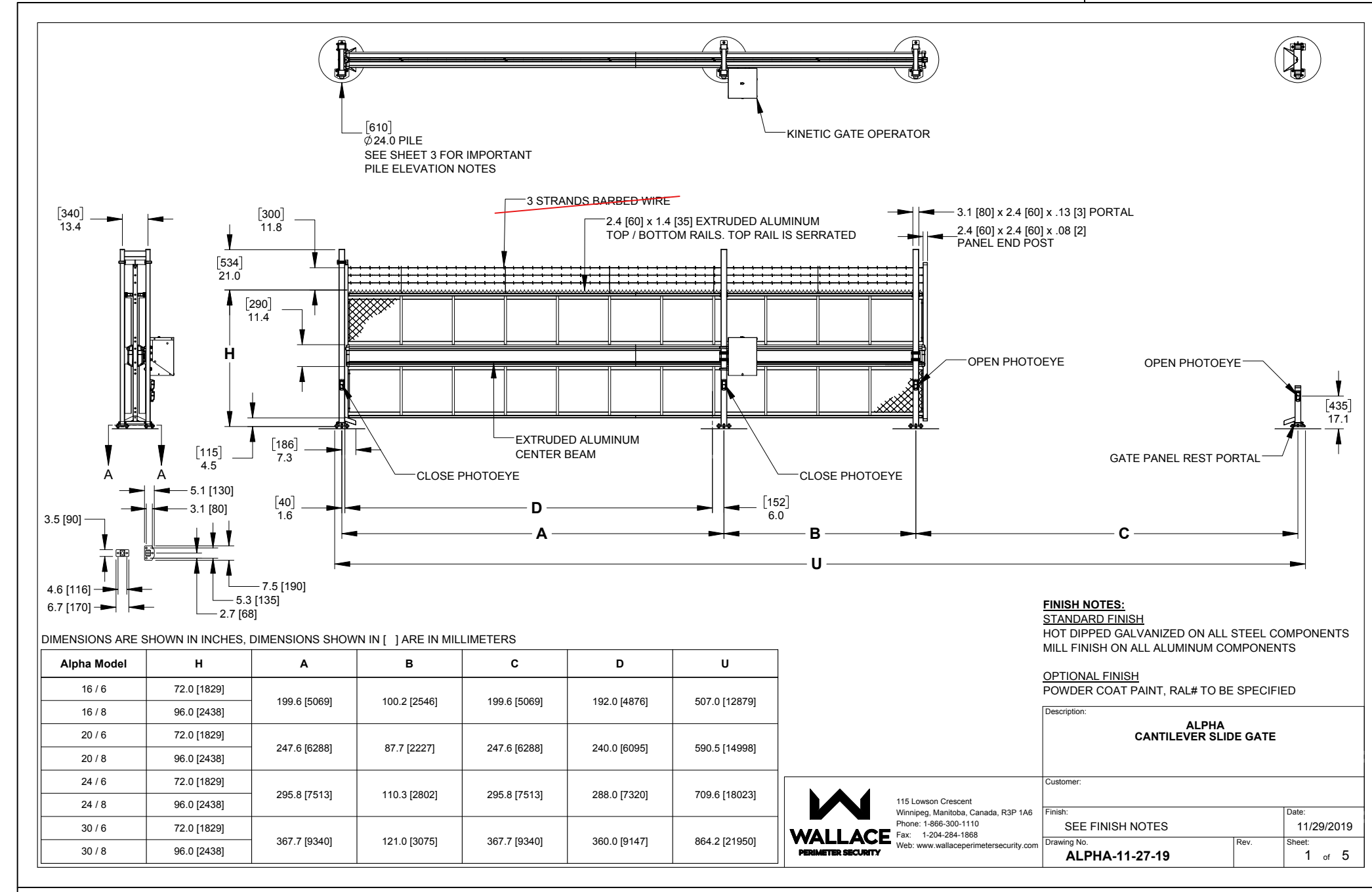


**ENL2 NORTH-EAST GATE**  
L-03 Scale: 1:100

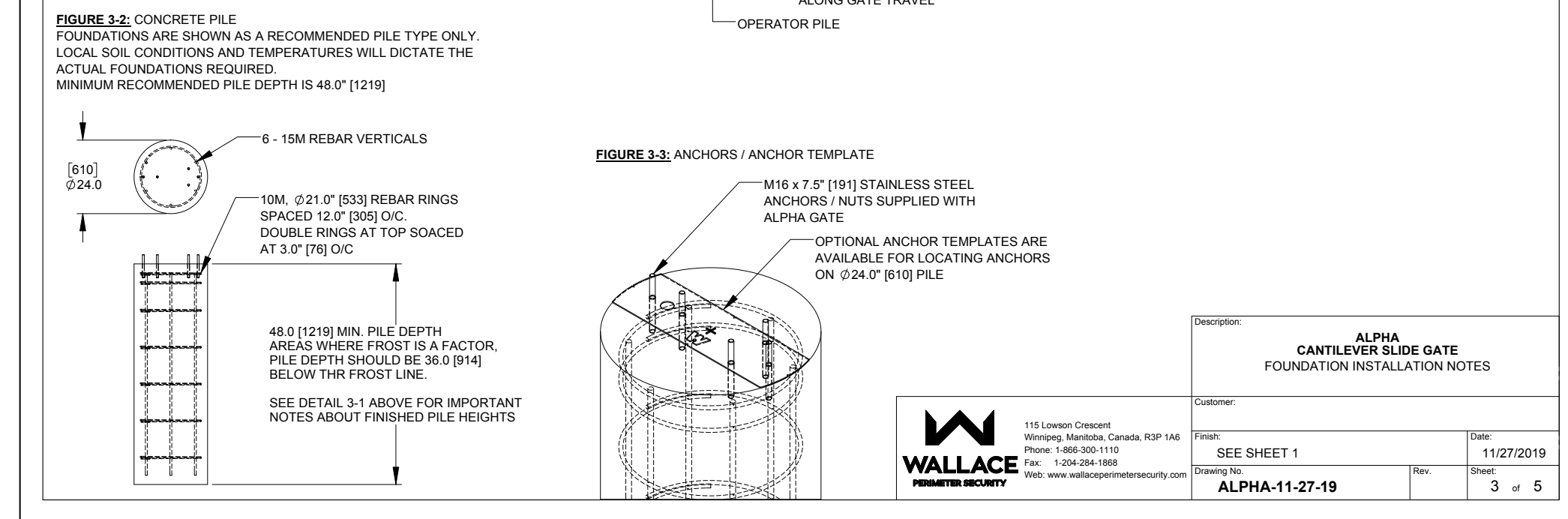
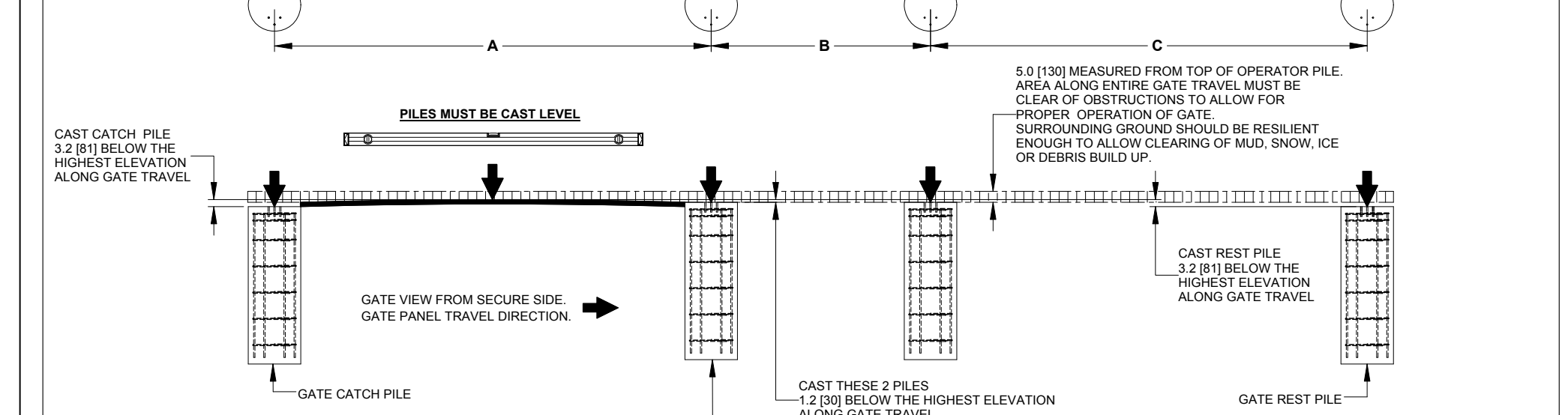
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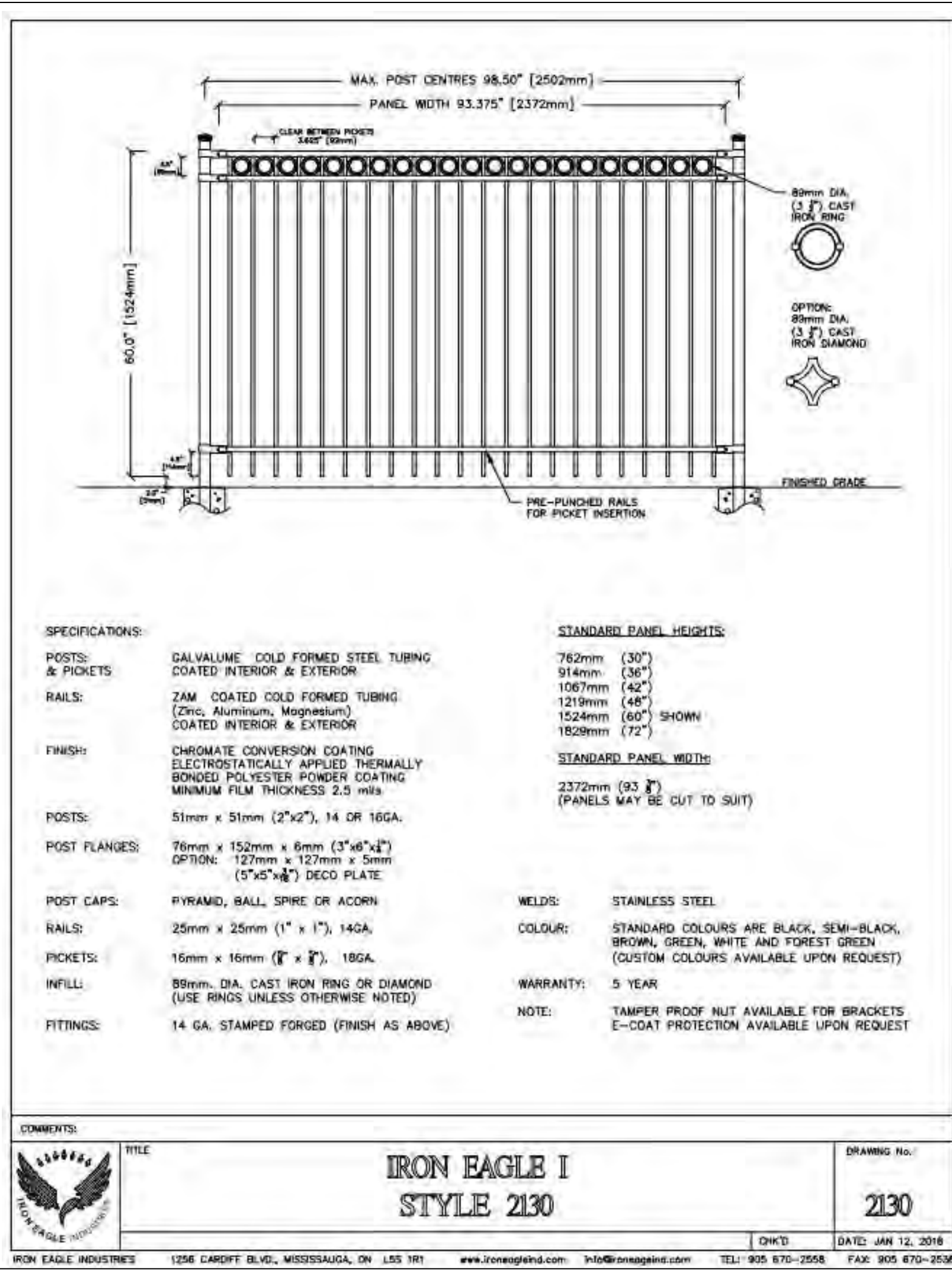
ROYAL FENCE LIMITED  
2309 Westchester Bourne, London, ON N6M 1H6  
OFFICE: 519-298-0162 FAX: 519-268-0165



Alpha Model	H	A	B	C	D	U
16 / 6	72.0 [1829]	199.6 [5069]	100.2 [2546]	199.6 [5069]	192.0 [4878]	507.0 [12870]
16 / 8	96.0 [2438]					
20 / 6	72.0 [1829]	247.6 [6288]	87.7 [2227]	247.6 [6288]	240.0 [6096]	590.5 [14996]
20 / 8	96.0 [2438]					
24 / 6	72.0 [1829]	295.6 [7513]	110.3 [2802]	295.6 [7513]	288.0 [7320]	709.6 [18023]
24 / 8	96.0 [2438]					
30 / 6	72.0 [1829]	367.7 [9345]	121.0 [3075]	367.7 [9345]	360.0 [9147]	864.2 [21950]
30 / 8	96.0 [2438]					



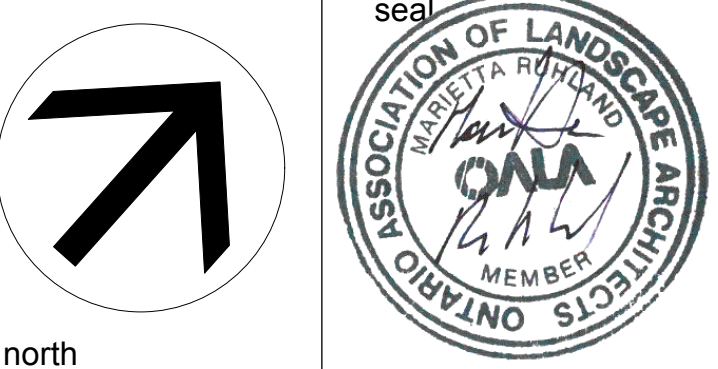
**WALLACE**  
115 London Circuit, Windsor, Ontario, Canada, R9P 1A6  
Phone: 1-800-201-1110 Fax: 1-204-264-1868  
www.wallaceindustries.com



**IRON EAGLE INDUSTRIES**  
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www.ironagleind.com info@ironagleind.com TEL: 905-670-2558 FAX: 905-670-2538

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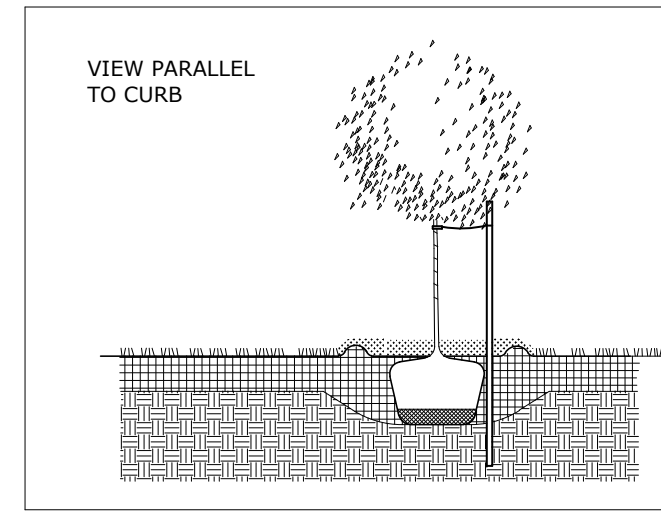
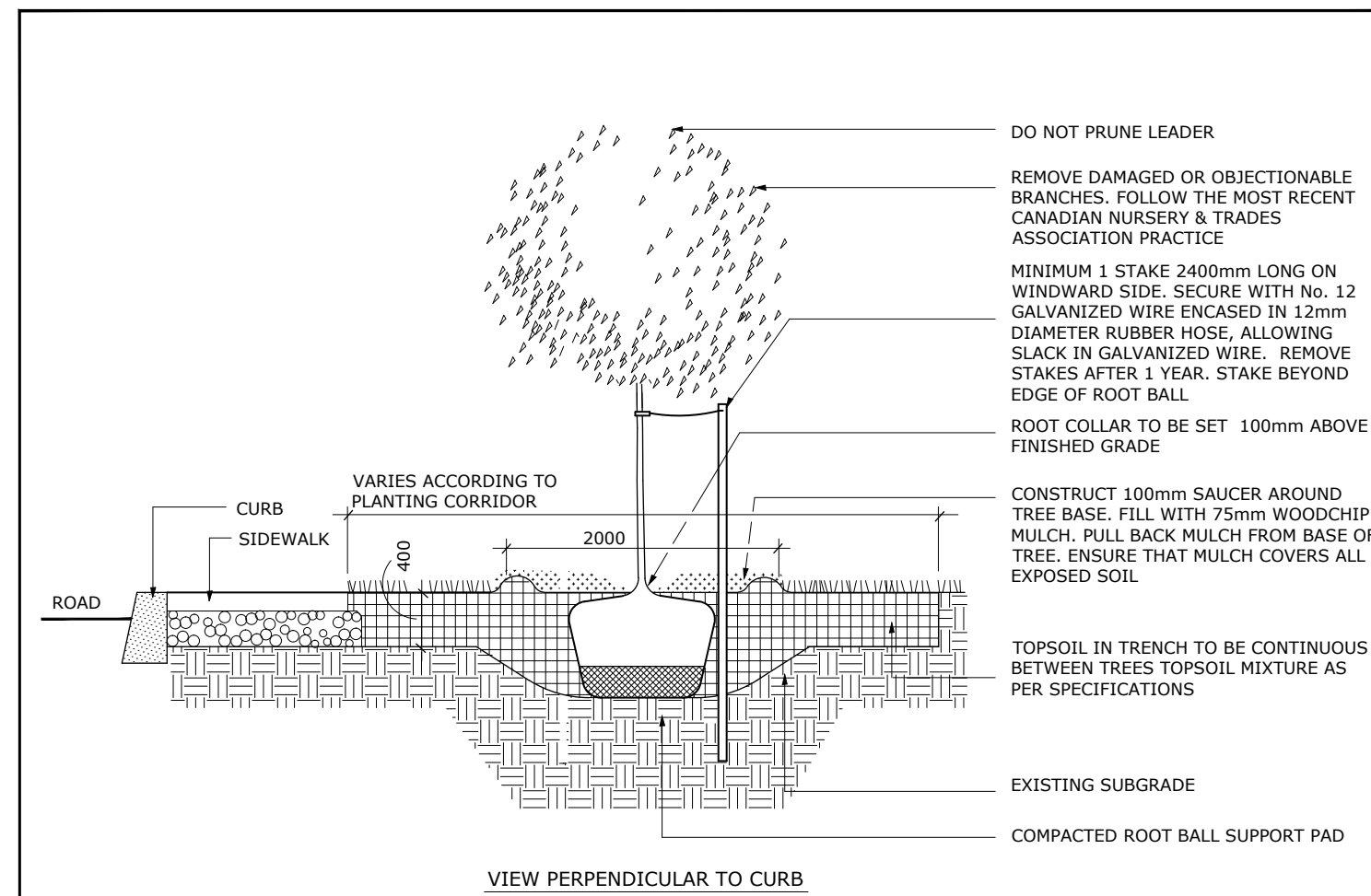
**DETAILS**

scale	As Shown	drawn by	T.F./A.A.	designed by	A.A./M.R.
date	Jun 2023	checked by	M. Ruhland	plot date	
project number	23-1722	drawing number			<b>L-03.</b>

Contractor to check and verify all dimensions on the job

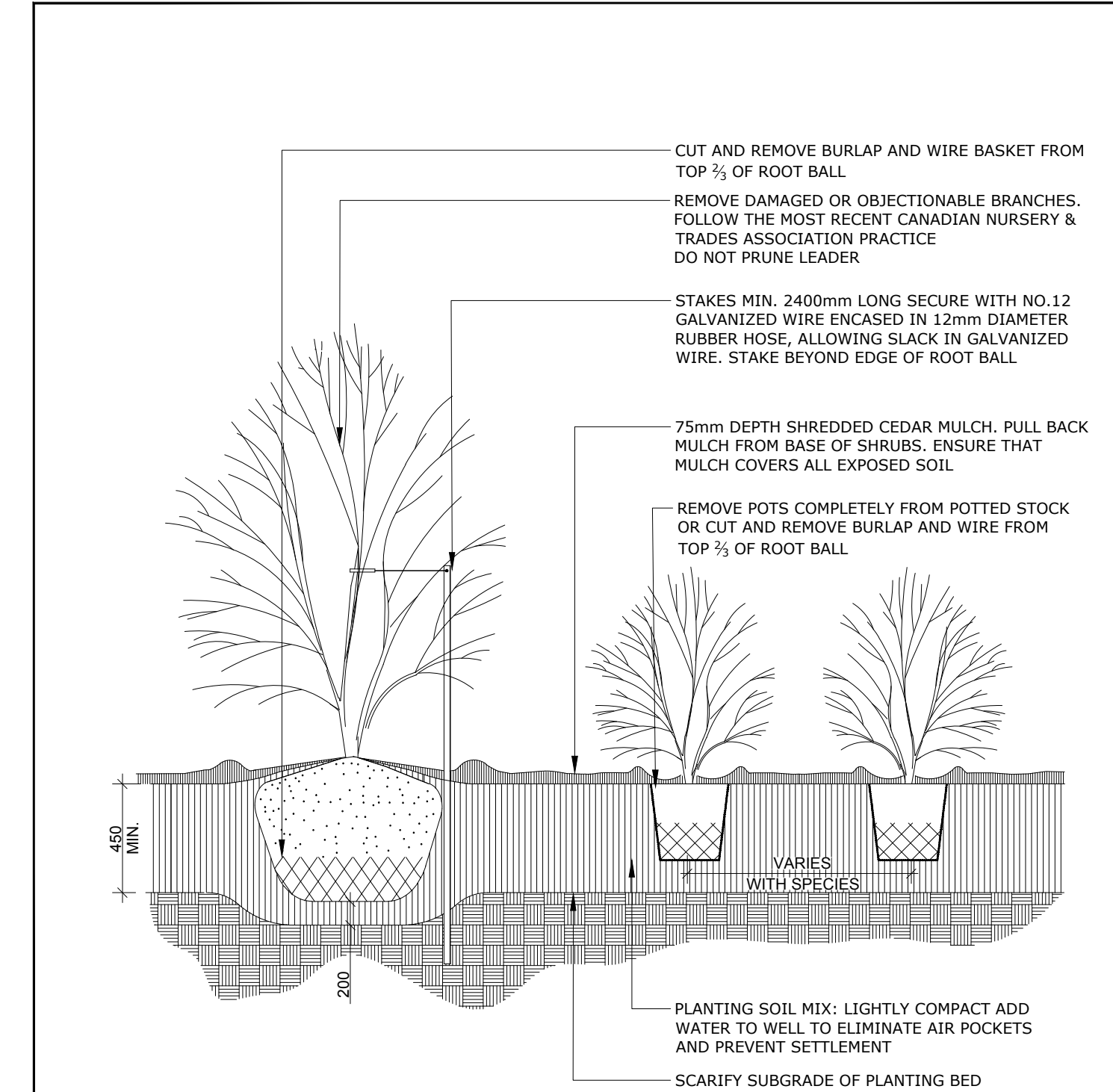
**NOTE - TREE SOIL VOLUME REQUIREMENTS:**  
STANDARD TREE SOIL VOLUMES QUANTITIES INCLUDE THE TOP 900-1000mm OF IMPORTED AND EXISTING SOIL/SUBSOIL LAYER TO CALCULATE TOTAL SOIL VOLUMES REQUIRED BY CITY OF OTTAWA FOR SUSTAINABLE TREE GROWTH. WHERE LARGER SOFT AREAS ARE AVAILABLE WITH APPROVED EXISTING TOPSOIL AND SUBSOIL, IMPORTED TOPSOIL ONLY AS PER DETAIL L-1.

WHERE EXISTING MATERIAL BELOW THE SPECIFIED TOPSOIL IS NOT CONDUCTIVE TO TREE GROWTH, AN ADDITIONAL LAYER OF 400mm PLANTING MEDIUM AND APPROVED SUBSOIL IS TO BE INSTALLED BELOW SPECIFIED TOPSOIL DEPTH TO OBTAIN THE SOIL VOLUME DEPTH REQUIRED. REFER TO SOIL VOLUME CHART AND PLANS FOR AREA WHERE TREE SOIL VOLUMES ARE REQUIRED.



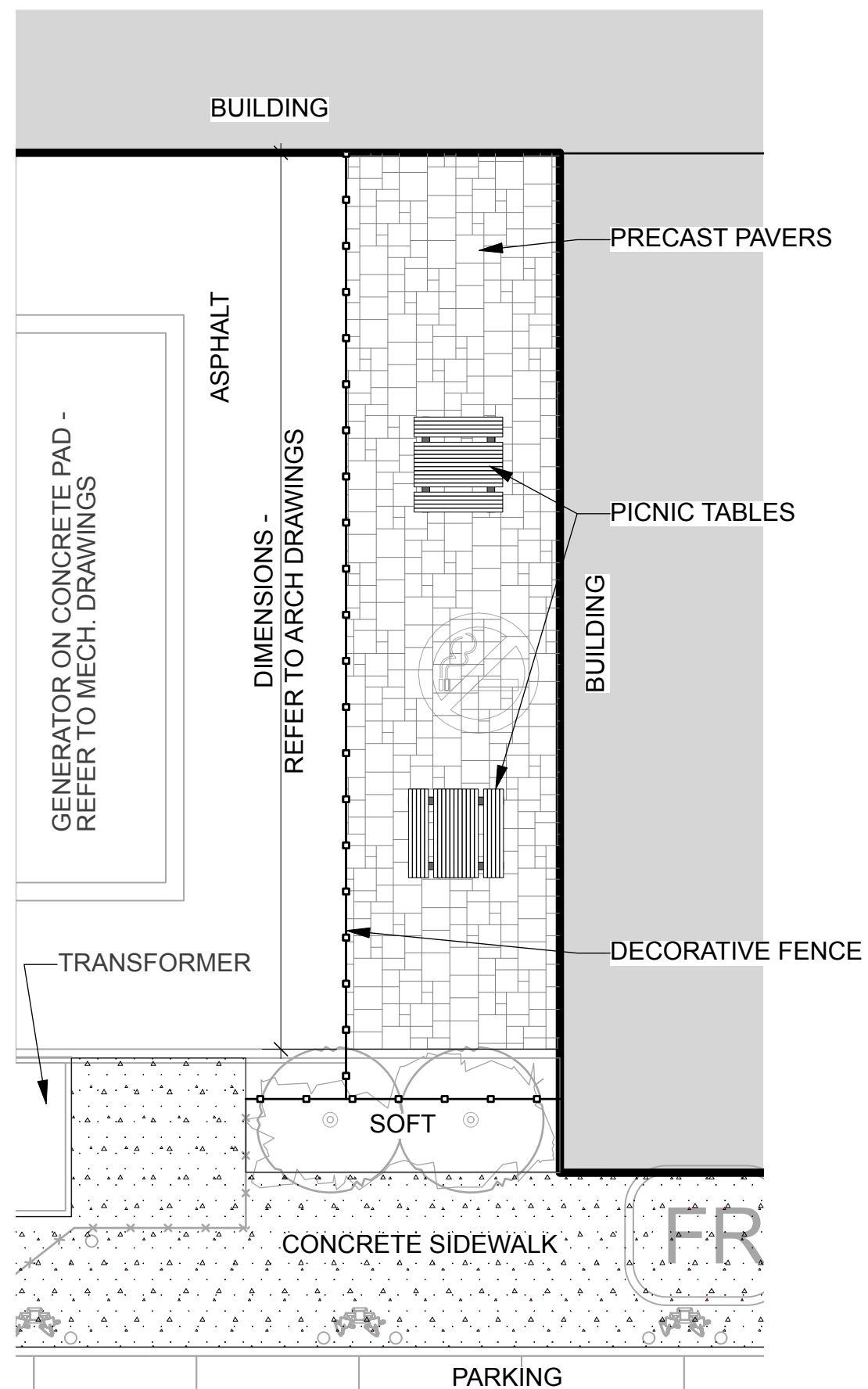
- NOTES:
1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
  2. CUT AND REMOVE BURLAP AND WIRE BASKET FROM TOP 2/3 OF ROOT BALL WITHOUT DISTURBING ROOTS
  3. LOCATION AS SPECIFIED ON THE CONTRACT DRAWINGS

**Ottawa** TITLE: PLANTING TRENCH WELL DRAINED SOILS DATE: MAY 2001  
REV: JAN 2017  
DWG No: L1

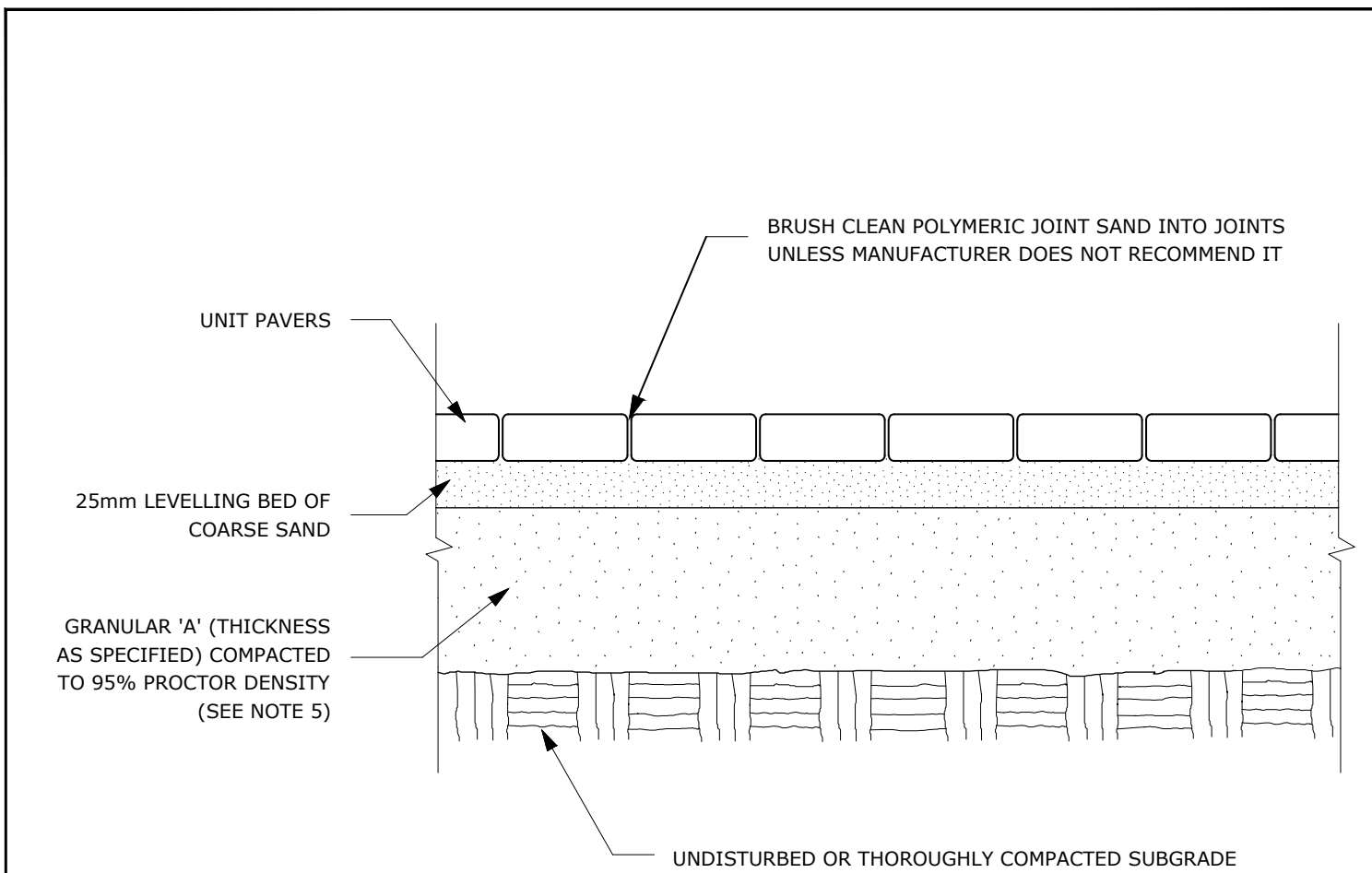


- NOTES:
1. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
  2. SHRUBS SPECIFIED BARE ROOTS (B.R.) TO BE PLANTED SO THAT ROOTS ARE FULLY EXTENDED IN PLANTING HOLE WITH SOIL MIX BACKFILLED CAREFULLY TO PREVENT ROOT DAMAGE
  3. PROVIDE 100 HIGH EARTH SAUCER AROUND SHRUB BED
  4. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD

**Ottawa** TITLE: CONTINUOUS SHRUB BED PLANTING DATE: FEB 2013  
REV: FEB 2014  
DWG No: L17



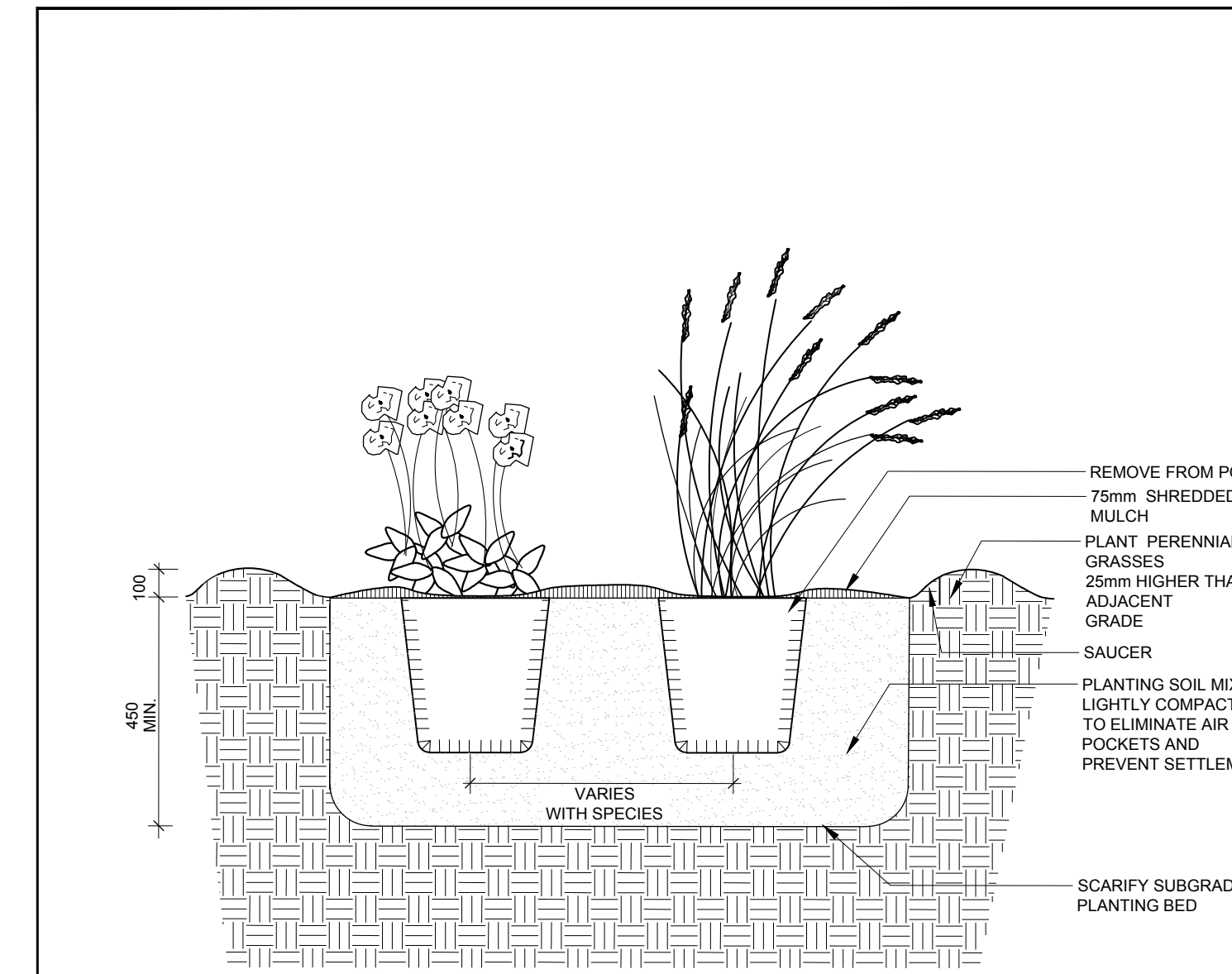
ENL1 PATIO LAYOUT L-04. Scale: 1:100



- NOTES:
1. THE LEVELING COURSE (BEDDING SAND) SHALL BE PLACED LOOSE, IN A UNIFORM LAYER AT A MAXIMUM DEPTH OF 25mm TO ACHIEVE THE FINAL COMPACTED THICKNESS AND GRADE AS SPECIFIED
  2. INSTALL SOLID EDGE RESTRAINT BETWEEN UNIT PAVERS AND ANY SOFT SURFACE (SOD, PLANTING BED, ETC.)
  3. UNIT PAVERS ARE THEN PLACED ON TOP OF THE LEVELING COURSE AND ADDITIONAL SAND SWEEPED BETWEEN THE UNIT PAVERS
  4. THE UNIT PAVERS ARE THEN VIBRATED INTO PLACE WITH A VIBRA-PLATE AND WATER IS ADDED TO ASSIST IN THE SETTLING OF THE JOINT SAND
  5. GRANULAR 'A' DEPTH TO BE 100mm FOR PEDESTRIAN AREAS AND 150mm FOR VEHICULAR ACCESSES. OR AS RECOMMENDED BY GEOTECHNICAL INVESTIGATION
  6. USE OF THIS DETAIL REQUIRES THE PRIOR APPROVAL OF THE GENERAL MANAGER

ADDITIONAL NOTES FOR NUMBER 5: PRECAST PAVERS IN PEDESTRIAN AREAS WHERE NORMAL SNOW REMOVALS ARE DONE IS TO RECEIVE A MINIMUM 200mm GRANULAR 'A'. FURTHER ADJUSTMENTS TO BE SPECIFIED IN RELATION TO SITE CONDITIONS AND GEOTECHNICAL RECOMMENDATIONS.

**Ottawa** TITLE: UNIT PAVING - ON GRANULAR BASE DATE: MAY 2001  
REV: FEB 2016  
DWG No: SC9



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
  2. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
  3. PROVIDE 100MM HIGH EARTH SAUCER AROUND PERENNIAL/GRASS BED.

**Ottawa** TITLE: PERENNIAL AND ORNAMENTAL GRASS PLANTING DATE: JAN 2015  
REV:   
DWG No: L21



- GENERAL NOTES
1. All general site information and conditions compiled from existing plans, surveys and consultant's field notes. Report all discrepancies prior to any work. No responsibility is born by the Consultant for unknown subsurface conditions.
  2. The location of the utilities is approximate only, and the exact location should be determined by consulting the municipal authorities and utility companies concerned. The Contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.
  3. All dimensions shown are to be verified on site prior to any construction. No deviations are to be made from the layouts as shown on this plan without prior consultation with the Landscape Architect and Owner.
  4. Obtain approval of Landscape Architect for granular base and layout of all pavement areas prior to construction.
  5. Stake planting locations and receive approval of Landscape Architect, prior to excavation of any planting pits. No substitutions of plant material shall be made without prior approval of the Landscape Architect.
  6. Where clay is encountered proper drainage must be ensured in tree/shrub pits, prior to planting. Have method approved by Landscape Architect.
  7. All sodded areas to receive a minimum of 150mm of topsoil over graded sub-base. If sod with mesh is used, mesh to be removed completely during sodding operations. Sod shall come from an approved source and shall be laid within 24 hours of being cut in the nursery. Only nursery sod shall be used.
  8. Final subgrade is to be approved by the Landscape Architect prior to sod being laid.
  9. Maintain positive surface runoff through the entire construction period.
  10. Reinststate all areas and items damaged as a result of construction activities.

6		
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1	Re-Issued for Site Plan Control	2023/09/29
no.	issue / revision	date



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project  
**PUROLATOR DISTRIBUTION KANATA**  
1400 UPPER CANADA STREET, KANATA, ON

DETAILS		
scale	drawn by	designed by
As Shown	T.F./A.A.	A.A./M.R.
date	checked by	plot date
Jun 2023	M. Ruhland	
project number	drawing number	
<b>23-1722</b>	<b>L-04.</b>	

Contractor to check and verify all dimensions on the job

CITY'S FILE NO.: D07-12-20-0125