



AECON

PROJECT

NEWCOLD GUELPH - TO01 GUELPH, ONTARIO

CLIENT

CONSULTANT

www.aecom.com

AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax

NOTE:

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED.

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

CULVERT BEDDING PER ROP STD DWG 5-2-18

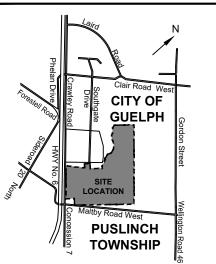
REGISTRATION



ISSUE/REVISION

	6		
Ś	5	2023-04-28	ISSUED FOR PHASE 1 SPA
	4	2023-03-02	ISSUED FOR CLIENT REVIEW
	3	2023-02-10	ISSUED FOR CLIENT REVIEW
cycebi de	2	2022-12-20	ISSUED FOR PHASE 1 SPA
	1	2022-10-26	ISSUED FOR DRAFT PLAN APPROVAL
6	I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

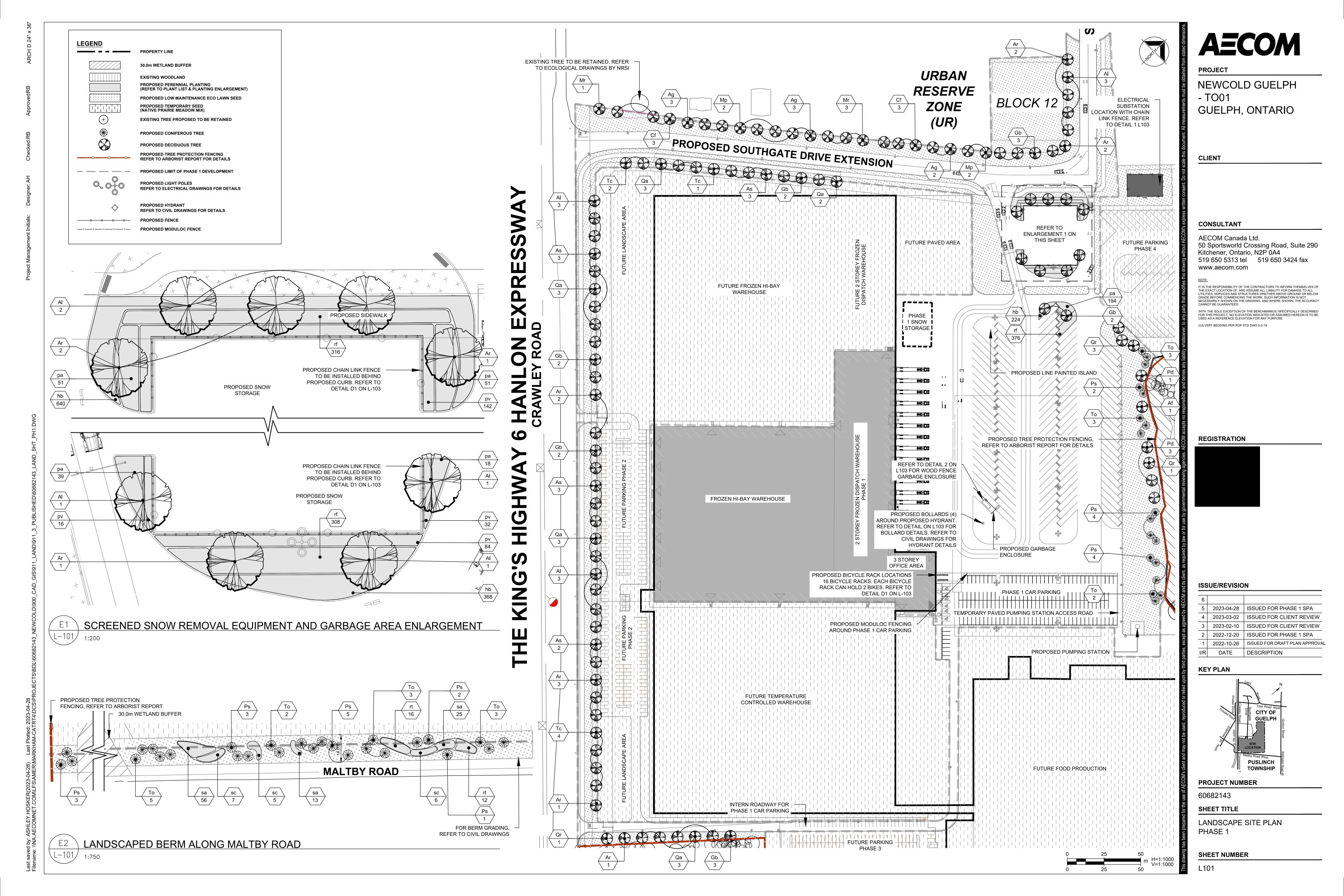
60682143

SHEET TITLE

LANDSCAPE SITE PLAN OVERALL

SHEET NUMBER

100



MINIMUM 2X DIAMETER OF ROOT BALL

DECIDUOUS TREE PLANTING

PLANTING NOTES PLANT MATERIALS SPECIFIED FOR THIS PROJECT WILL CONFORM TO THE CANADIAN NURSERY

PROVIDED BY NATURAL RESOURCE SOLUTIONS INC. (NRSI).

LANDSCAPE ASSOCIATION (CNLA) FOR SIZE, VARIETY AND CONDITION AS INDICATED ON THE

2. THE CONTRACT ADMINISTRATOR IS TO BE CONTACTED FOR INSPECTION AND WRITTEN APPROVAL PRIOR TO ANY PLANT MATERIAL INSTALLATION. THE CONTRACT ADMINISTRATOR RESERVES THE RIGHT TO REJECT ANY PLANT MATERIALS THAT HAVE NOT BEEN INSPECTED

3. ANY PLANT MATERIAL THAT IS REJECTED BY THE CONTRACT ADMINISTRATOR WILL BE

WITH ADJACENT PLANTINGS. PRUNE ONLY AS NECESSARY TO REMOVE DEAD, BROKEN AND DISEASED BRANCHES ACCORDING TO STANDARD HORTICULTURAL PRACTICES. PRESERVE THE NATURAL FORM AND CHARACTER OF THE PLANT DO NOT CUT THE LEADER TWO (2) 38mm X 38mm X 1800mm HEARTWOOD STAKES INSTALLED WITH MINIMUM 1000mm ABOVE GRADE AND CLEAR OF ALL BRANCHES. TWO STAKES PER TREE TO BE ALIGNED WITH PREVAILING WIND. DO NOT DRIVE STAKES THROUGH ROOT

SET TREE PLUMB AND ORIENT WITH BEST SIDE FACING ROADS,

WALKWAYS OR PEDESTRIAN AREAS, AND TO MINIMIZE CONFLICT

- TIES SHALL BE GREEN ARBORTIE. TIES SHALL FORM A LOOSE LOOP AROUND THE STAKE AND LOOP IN A FIGURE '8' AROUND THE TRUNK OF THE TREE. SECURE ARBORTIE TO STAKE WITH 25.4mm GALVANIZED ROOFING NAIL.

TREE GATOR WATERING BAG WHITE CORRUGATED PVC PIPE RODENT GUARD, TOTAL LENGTH 600mm. INSTALLED 50mm BELOW GRADE AND 550mm ABOVE GRADE, OR TO LOWEST

TOP OF ROOTBALL SHALL BE SET AT 75mm ABOVE FINAL GRADE TO ALLOW FOR SETTLEMENT WATER AND FERTILIZE AS NECESSARY. COVER ROOT BALL WITH 50mm SOIL, AND MULCH.

75mm COMPRESSED LAYER OF SHREDDED PINE BARK MULCH, KEPT BACK 100mm FROM TRUNK. - CONSTRUCT SAUCER 100mm HIGH AND MAX 150 mm WIDE MIN. TOPSOIL SAUCER AROUND PLANTING 1:1 SLOPE ON SIDES OF PLANTING HOLE. SCARIFY EDGES AND

LOOSEN AND ROLL BACK 1/3 OF BURLAP, ON ROOT BALL, AND REMOVE TOP THIRD OF WIRE BASKET, BURLAP AND TWINE FROM TRUNK BEFORE BACK FILLING.

BACKFILL WITH SPECIFIED PLANTING MIX. FIRMLY COMPACT OR WATER SOIL IN 150mm LAYERS TO ELIMINATE AIR POCKETS AND PREVENT SETTLEMENT. THOROUGHLY SOAK PIT WITH WATER IN NEXT TO LAST LAYER, PLANTING DEPTH, MIN. 900mm.

- ROOT BALL SET ON COMPACTED SOIL MOUND 200mm HIGH.

WATER THOROUGHLY AFTER PLANTING. DO NOT CUT OR DAMAGE LEADER. PRUNE ONLY INJURED OR DEAD BRANCHES

BOTTOM OF PLANTING PIT.

CONTRACTOR SHALL CHECK RODENT GUARD IN COMPARISON TO TREE DIAMETER. IF DIAMETER IS GREATER THAN 50mm CHANGE RODENT GUARD TO 100mm DIAMETER.

RETAIN NATURAL FORM. NOTE: CONTRACTOR SHALL REMOVE TREE STAKES AND TIES ONE YEAR AFTER PLANTING, OR AT THE END OF THE WARRANTY PERIOD IF STAKES ARE STILL REQUIRED.

CONTRACTOR SHALL CHECK RODENT GUARD IN COMPARISON SET TREE PLUMB AND ORIENT WITH BEST SIDE FACING ROADS, TO TREE DIAMETER. IF DIAMETER WALKWAYS OR PEDESTRIAN AREAS, AND TO MINIMIZE CONFLICT IS GREATER THAN 50mm, CHANGE WITH ADJACENT PLANTINGS. RODENT GUARD TO 100mm PRUNE ONLY AS NECESSARY TO REMOVE DEAD, BROKEN AND DISEASED BRANCHES DIAMETER. ACCORDING TO STANDARD HORTICULTURAL PRACTICES. PRESERVE THE NATURAL FORM AND CHARACTER OF THE PLANT, DO NOT CUT THE LEADER. TWO (2) 38mm X 38mm X 1800mm HEARTWOOD STAKES INSTALLED WITH MINIMUM 1000mm ABOVE GRADE AND CLEAR OF ALL BRANCHES. TWO STAKES PER TREE TO BE ALIGNED WITH PREVAILING WIND. DO NOT DRIVE STAKES THROUGH ROOT BALL TIES SHALL BE GREEN ARBORTIE. TIES SHALL FORM A LOOSE LOOP AROUND THE STAKE AND LOOP IN A FIGURE '8' AROUND THE TRUNK OF THE TREE. SECURE ARBORTIE TO STAKE WITH 25.4mm GALVANIZED ROOFING NAIL TOP OF ROOTBALL SHALL BE SET AT 75mm ABOVE ORIGINAL NURSERY GRADE AND FINAL GRADE TO ALLOW FOR SETTLEMENT, WATER AND FERTILIZE AS NECESSARY, COVER ROOT BALL WITH 50mm SOIL. AND MULCH TREE GATOR JR WATERING BAG 75mm COMPRESSED LAYER OF SHREDDED PINE BARK MULCH, KEPT BACK 100mm FROM CONSTRUCT SAUCER 100mm HIGH AND MAX 150 mm WIDE MIN. TOPSOIL SAUCER AROUND PLANTING PIT. - 1:1 SLOPE ON SIDES OF PLANTING HOLE. SCARIFY EDGES AND **BOTTOM OF PLANTING PIT** PLACE AND COMPACT TOPSOIL EMBANKMENT TO PROTECT ROOTBALL EXPOSURE. LOOSEN AND ROLL BACK 1/3 OF BURLAP, ON ROOT BALL, AND REMOVE TOP THIRD OF WIRE BASKET, BURLAP AND TWINE FROM TRUNK BEFORE BACK FILLING. BACKEILL WITH SPECIFIED PLANTING MIX FIRMLY COMPACT OR WATER SOIL IN 150mm LAYERS TO ELIMINATE AIR POCKETS AND PREVENT SETTLEMENT, THOROUGHLY SOAK PIT WITH WATER IN NEXT TO LAST LAYER, PLANTING DEPTH, MIN. 900mm.

NOTE: CONTRACTOR SHALL REMOVE TREE STAKES AND TIES ONE YEAR AFTER PLANTING, OR AT THE END OF THE WARRANTY PERIOD IF STAKES ARE STILL REQUIRED.

MINIMUM 2X DIAMETER OF ROOT BALL

WATER THOROUGHLY AFTER PLANTING DO NOT CUT OR DAMAGE LEADER. PRUNE ONLY INJURED OR DEAD BRANCHES. RETAIN NATURAL FORM.

NOTE: INTENT IS TO HAVE CONTINUOUS PLANTING BEDS TO

SHAPE, WATER THOROUGHLY AFTER PLANTING

KEY | QTY |

8 Acer ginnala

15 Acer rubrum

9 Acer saccharinum

14 Amelanchier laevis

4 Populus deltoides

4 Malus 'Pink Spires'

14 Ginkgo biloba

4 Malus 'Royalty

14 Quercus alba

7 | Tilia cordata

24 Pinus strobus

28 Rhus typhina

5 Quercus rubra

22 Thuja occidentalis

1232 Hemerocallis 'Bonanza'

353 Perovskia atriplicifolia

94 Symphoricarpos albus

1000 Rudbeckia fulgida 'Goldstrum' Black-Eyed Susan

18 | Sambucus nigra ssp. Canadensis | Elderberry

pv | 274 | Panicum virgatum 'Heavy Metal' | Heavy Metal Switch Grass

6 Cornus florida 'Rubra

Acer x freemanii

DECIDUOUS TREE

CONIFEROUS TREE

SHRUBS & PERENNIALS

PRUNE ONLY DEAD OR INJURED BRANCHES, RETAIN NATURAL

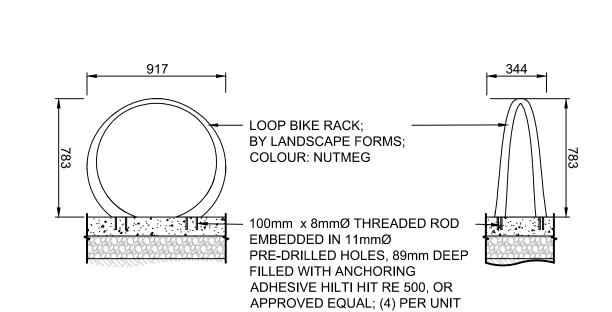
ACCOMMODATE MULTIPLE SHRUBS AS SHOWN ON PLANTING PLANS

SHRUB PLANTING

BOTANICAL NAME



ROOT BALL SET ON COMPACTED SOIL MOUND 200mm HIGH.



GENERAL NOTES:

∖L102 /

LOOP BIKE RACK

1. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS STAMPED AND SIGNED BY

THE LANDSCAPE ARCHITECT. 2. ANY AMBIGUITY IN THE DRAWINGS, SPECIFICATIONS OR DETAILS IS TO BE REPORTED TO THE

WALL/OBSTRUCTION/EDGE OF PAVING

CONTRACT ADMINISTRATOR FOR DIRECTION. DO NOT PROCEED IN UNCERTAINTY. DRAWINGS MAY BE SCALED FOR APPROPRIATE LAYOUT ONLY. ALL MEASUREMENTS IN METRIC ALL LAYOUT, INCLUDING PLANTING, TO BE STAKED BY THE CONTRACTOR AND APPROVED BY

THE CONTRACT ADMINISTRATOR PRIOR TO THE COMMENCEMENT OF WORK 4. THE CONTRACTOR IS TO TAKE NECESSARY PRECAUTION TO PROTECT ALL EXISTING SITE FEATURES UNLESS SPECIFIED FOR DEMOLITION. THIS INCLUDES ALL SURVEY BARS, STAKES

AND MONUMENTS. MAKE GOOD ANY DAMAGE. UPON COMPLETION OF WORK EACH DAY, REMOVE ALL DEBRIS, GARBAGE AND SURPLUS

MATERIALS FROM THE SITE. KEEP THE SITE CLEAN AND USABLE AT ALL TIMES. 6. ALL LANDSCAPE WORKMANSHIP AND MATERIALS, INCLUDING PLANTS, TO BE GUARANTEED FOR

TWO FULL YEARS FOLLOWING FINAL ACCEPTANCE OF THE PROJECT. ALL WORKMANSHIP TO THE STANDARDS OF LANDSCAPE ONTARIO. 7. AT THE TIME OF FINAL INSPECTION, ALL PLANTS SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION, PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.

8. ANY CHANGES TO THIS ACCEPTED PLAN MUST BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR. 9. WOODLAND COMPENSATION AREA, BUFFERS AND LINKAGE AREA PLANTING DETAILS TO BE

PLANT LIST SHOWN ON THIS SHEET. ANY PLANT MATERIALS WHICH DO NOT CONFORM WILL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL

- PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF ACCEPTABLE QUALITY AT NO ADDITIONAL COST TO THE PROJECT.
- 4. ONLY REMOVE DEAD OR DAMAGED BRANCHES ON TREES AND SHRUBS. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICES AND APPROPRIATE TIMING FOR EACH SPECIES.
- 5. PLANTING LAYOUT TO BE DETERMINED ON SITE AT DIRECTION OF THE CONTRACT ADMINISTRATOR. FIELD ADJUSTMENTS TO GENERAL PLANT LOCATIONS INDICATED ON THE PLAN MAY BE NECESSARY TO RESPOND TO SITE CONDITIONS. 6. ANY DISCREPANCIES BETWEEN QUANTITIES SHOWN AND THE PLANT LIST SHALL BE REPORTED
- TO THE CONTRACT ADMINISTRATOR FOR DIRECTION. 7. ANY SUBSTITUTIONS OF PLANT MATERIALS REQUIRE THE PRIOR WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR.

8. TREES AND SHRUBS ARE TO BE PLANTED AND STAKED IN ACCORDANCE WITH TYPICAL PLANTING DETAILS. CONTRACTOR TO REMOVE ALL STAKES AND TIES FROM THE SITE AT THE

END OF THE TWO-YEAR WARRANTY PERIOD. 9. PLANTS ARE NOT TO BE INSTALLED OR TRANSPLANTED DURING EXTREME HEAT, DROUGHT, OR OTHER UNDESIRABLE CONDITIONS. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.

CONTACT CONTRACT ADMINISTRATOR FOR DIRECTION. 10. DO NOT PLANT IN DRAINAGE SWALES. WHERE PROPOSED PLANTING LOCATIONS CONFLICT WITH

CONSTRUCTED SWALES, CONTACT CONTRACT ADMINISTRATOR FOR DIRECTION. 11. ALL PLANT MATERIALS WILL BE PLANTED IN SOIL NATIVE TO THE SITE. IF ADDITIONAL TOPSOIL IS NECESSARY FOR COMPLIANCE WITH THESE SPECIFICATIONS, IT MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO APPLICATION.

12. ALL TOPSOIL IS TO BE STOCKPILED SEPARATELY FROM SUBSOIL DURING THE EXCAVATION 13. ALL SUBSOIL COMPACTED DURING CONSTRUCTION ACTIVITIES IS TO BE SCARIFIED TO THE

14. SHREDDED PINE BARK MULCH SHALL BE SPREAD UNIFORMLY AROUND BASE OF TREES AND SHRUBS TO A DEPTH OF 100mm AND A RADIUS OF 150mm FROM TRUNK(S) TO EXTENT OF PLANTING PIT. DO NOT PLACE MULCH IN DIRECT CONTACT WITH TRUNKS. 15. SHRUBS TO BE PLANTED IN A CONTINUOUS PLANTING BED WITH CONTINUOUS MULCH.

SATISFACTION OF THE CONTRACT ADMINISTRATOR PRIOR TO PLACEMENT OF TOPSOIL.

16. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS FOR PLANT MATERIAL TO BE MAINTAINED IN A HEALTHY STATE FOR THE DURATION OF THE WARRANTY PERIOD AND FOR ALL MAINTENANCE AND REPLACEMENT OF DEAD PLANT MATERIALS DURING THE WARRANTY PERIOD UNTIL ACCEPTABLE BY THE CONTRACT ADMINISTRATOR AND THE CITY OF GUELPH. 17. ALL AREAS OF DISTURBED SOIL MUST BE STABILIZED WITH EROSION CONTROL MEASURES

AND/OR SEEDED WITH NATIVE GROUNDCOVER SEED MIX IMMEDIATELY UPON COMPLETION OF

WORK. PLEASE PROVIDE EROSION CONTROL MATTING/BLANKETS WITH FULLY BIODEGRADABLE, WOVEN NETTING BE USED TO PREVENT WILDLIFE ENTRAPMENT.

18. THE CONTRACTOR IS TO REVIEW WITH CONTRACT ADMINISTRATOR ANY MAINTENANCE REQUIREMENTS NECESSARY FOR WARRANTY PURPOSES.

19. THE CITY OF GUELPH RESERVES THE RIGHT TO EXTEND THE CONTRACTOR'S WARRANTY RESPONSIBILITIES FOR AN ADDITIONAL YEAR IF, AT THE END OF THE INITIAL WARRANTY PERIOD LEAF DEVELOPMENT AND GROWTH IS NOT SUFFICIENT TO ENSURE FUTURE SURVIVAL AS DETERMINED BY CONTRACT ADMINISTRATOR.

20. A MINIMUM OF TWO YEARS OF MONITORING FOR PLANT ESTABLISHMENT IS REQUESTED. ALL DEAD AND DYING PLANTS WOULD NEED TO BE REPLACED AT THE END OF THE TWO-YEAR

21. LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING PLANTING

OPERATIONS

22. ALL PLANTS SHALL BE INSTALLED AS PER CONTRACT SPECIFICATIONS AND CITY OF GUELPH STANDARD DETAILS

SEEDING NOTES

1. THE CONTRACTOR IS TO ENSURE COVERAGE AND SEED MIX GERMINATION. 2. SEED APPLICATION TO BE APPLIED IN A CONSISTENT AND THOROUGH FASHION COVERING

ENTIRE SITE. 3. SEED SLOPES OF 3:1 OR GREATER TO BE APPLIED IN COMBINATION WITH FLEXTERRA HIGH

PERFORMANCE-FLEXIBLE GROWTH MEDIUM (HP-FGM) OR APPROVED EQUIVALENT. 4. SEED MIX AND RATES AS NOTED ON THIS SHEET. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR SEED METHOD(S).

5. SEEDED AREAS WILL BE ACCEPTED PROVIDED THAT SEED IS PROPERLY ESTABLISHED AT 30, 60, AND 90-DAY PERIODS FOLLOWING SEED AND COVER INSTALLATION. SEED WILL BE INSPECTED BY THE CONTRACT ADMINISTRATOR AND/OR THE LANDSCAPE ARCHITECT USING THE SEEDING AND COVER QUALITY ASSURANCE VISUAL INSPECTION FIELD GUIDE ALONG WITH OPSS. PROV

804 TO ENSURE COMPLIANCE. 6. CONTRACT ADMINISTRATOR TO BE CONTACTED PRIOR TO SEEDING TO COORDINATE OPERATIONS IN ORDER TO ENSURE FINAL ACCEPTANCE.

7. ALL SEEDING OF DISTURBED AREAS MUST OCCUR IMMEDIATELY UPON COMPLETION OF THE GRADING WORK, WEATHER PERMITTING. SEEDING OPERATIONS SHOULD TAKE PLACE BETWEEN APRIL 15 AND JUNE 15 OR BETWEEN AUGUST 15 AND OCTOBER 30 AT THE LATEST. PROVIDING THE GROUND IS IN A FROST-FREE CONDITION. IN THE EVENT THAT IMMEDIATE COMPLETION OF

SEEDING IS NOT FEASIBLE OTHER EROSION CONTROL METHODS WILL BE REQUIRED. DISCUSS

WITH THE CONTRACT ADMINISTRATOR PRIOR TO PROCEEDING. 8. HYDROSEED AFTER PLANTING IS COMPLETE. DO NOT APPLY HYDROSEED FROM A DISTANCE. BRING HOSE AND NOZZLE TO PLANTING AREA TO APPLY HYDROSEED DIRECTLY TO TOPSOIL AROUND PLANT MATERIAL. DO NOT DAMAGE PLANT MATERIAL WITH HOSE. HYDROSEED ALL

9. ALL AREAS ON SLOPE DISTURBED DURING REMOVAL OF SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE SEEDED WITH HYDROSEED APPLICATION OF THE SPECIFIED SEED MIX.

10. ALL TOPSOIL COMPACTED ON SLOPE DURING CONSTRUCTION ACTIVITIES IS TO BE SCARIFIED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR PRIOR TO SEED APPLICATION. IF DISTURBED AREA ON SLOPE EXTENDS BEYOND CONSTRUCTION LIMIT, APPLY 50mm THICK TOPSOIL AND SEED AS PER OPSS PROV 803.

OSC SEED MIX #8340 LOW MAINTENANCE ECO LAWN

PLANT LIST

Amur Maple

Red Maple

Silver Maple

Smooth Serviceberry

Eastern Cottonwood

|Pink Spires Crabapple

Royalty Crabapple

Littleleaf Linden

Eastern White Cedar

Eastern White Pine

|Bonanza Daylily

|Staghorn Sumac

Russian Sage

Snowberry

White Oak

Red Oak

lFreeman Maple

COMMON NAME

Pink Flowering Dogwood (Tree Form)

Latin Name Common Name Hard Fescue Festuca ovina Festuca rubra 'Commutata' Chewings Fescue 35% Creeping Red Fescue 20% Festuca rubra Perennial Ryegrass 10% Lolium perenne

Application: Sow seed mix at rate of 25kg/ha. Seed common oats (Avena sativa) as a nurse crop at 22kg/ha in the spring. Seed fall ryegrass (Secale cereale) or winter wheat (Triticum aestivum) as a nurse crop and for erosion control at 22kg/ha in the fall.

Available From: Ontario Seed Company (OSC) Address: 77 Wellington St. South, P.O. Box 7, Waterloo, ON N2J 3Z6 Phone: 519-886-0557 or 1-800-465-5849 Fax: 519-886-0605

OSC SEED MIX #8135 **NATIVE PRAIRIE MEADOW MIX**

75mm COMPRESSED LAYER OF SHREDDED PINE BARK MULCH, CONTINUOUS

THROUGHOUT PLANTING BED, KEPT BACK 100mm FROM STEMS OF SHRUBS

CUT AND REMOVE ALL TWINE, ROPE AND BURLAP FROM TOP HALF OF ROOTBALL.

CONTAINER AND CUT SEVERAL SLITS INTO ORGANIC CONTAINER TO FACILITATE ROOT PENETRATION, IF REMOVED FROM POT, LOOSEN ROOT MASS IN SEVERAL

LOCATIONS AROUND THE ROOTBALL TO FACILITATE BALANCED ROOT GROWTH IN

GROWING MEDIUM. PRUNE ANY DRY OR BROKEN ROOTS PRIOR TO PLANTING

CONSTRUCT 100mm HIGH AND MAX. 150mm WIDE TOPSOIL SAUCER AROUND

1:1 SLOPE ON SIDES OF PLANTING HOLE. SCARIFY EDGES OF PLANTING PIT.

FIRMLY COMPACT OR WATER TOPSOIL IN 150mm LAYERS TO ELIMINATE AIR

THOROUGHLY SOAK PIT WITH WATER IN NEXT TO LAST 150mm LAYER OF

BACKFILL WITH SPECIFIED PLANTING MIX. PIT DEPTH. MINIMUM 450mm.

SIZE | CONDITION | SPACING

WB

50mm cal. WB As Shown

_1 gal. | Potted | 50cm O.C

1 gal. Potted 80cm O.C.

1 gal. Potted 50cm O.C 80cm ht. | Potted | 2.0m O.C.

80cm ht. | Potted | 1.25m O.C

80cm ht. Potted 2.5m O.C.

1 gal. Potted 80cm O.C.

WB As Shown

WB As Shown

WB | As Shown

WB As Shown

As Shown

50mm cal.

50mm cal.

50mm cal. l

50mm cal.

50mm cal. l

50mm cal.

2.0m ht.

2.0m ht.

COMPACTED TOPSOIL. REMOVE ALL FOREIGN MATERIAL FROM EXISTING SOIL.

SHRUB, ELIMINATE TOPSOIL SAUCER IF SHRUBS ARE PLANTED IN A

POCKETS AND PREVENT SETTLEMENT

REMOVE PLASTIC CONTAINERS, REMOVE TOP LIP OF ORGANIC

Latin Name	Common Name	%
Aster novae-angliae	New England Aster	1%
Desmodium canadense	Showy Tick Trefoil	1%
Monarda fistulosa	Wild Bergamot	2%
Panicum virgatum	Switchgrass	259
Penstemon digitalis	Beardtongue	2%
Poa palustris	Fowl Bluegrass	259
Rudbeckia hirta	Black Eyed Susan	7%
Schizachyrium scoparium	Little Bluestem	159
Solidago juncea	Early Goldenrod	1%
Sorghastrum nutans	Indian Grass	209
Verbena urticifolia	White Vervain	1%

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CONSULTANT

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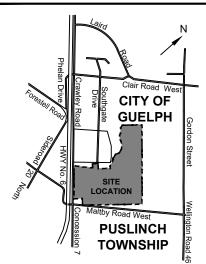


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	1	

I/R DATE DESCRIPTION

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SHEET TITLE

LANDSCAPE DETAILS & NOTES

SHEET NUMBER

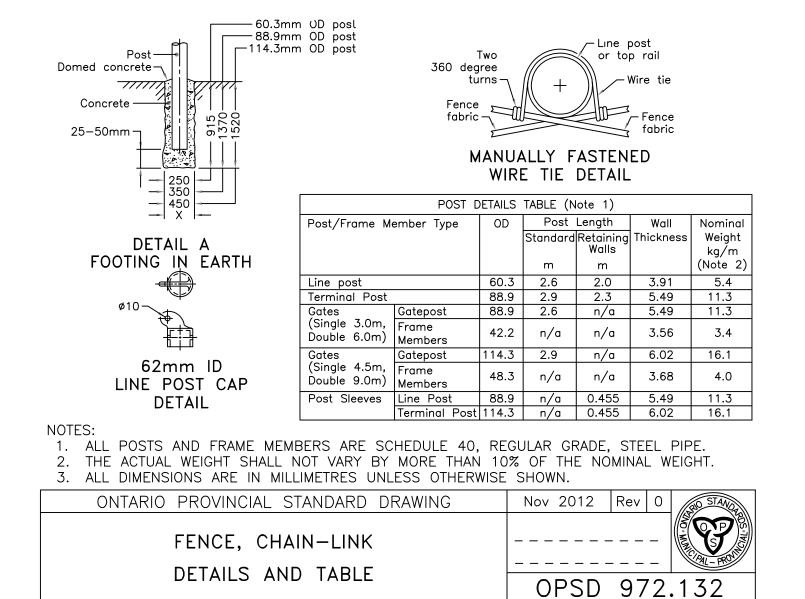
CHAIN-LINK FENCE WITH TOP RAIL

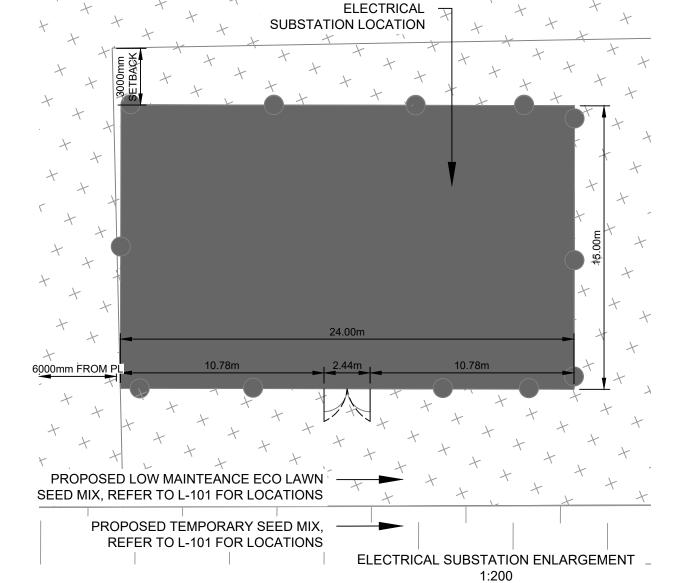
1. FOR FOOTING DETAILS AND LINE POST CAP DETAIL REFER TO OPSD 972.132.

2. FENCE AS VIEWED FROM ROADWAY

3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE

SHOWIV.	
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012 Rev 2 STAVO
FENCE, CHAIN-LINK INSTALLATION - ROADWAY	
INSTALLATION - ROADWAT	OPSD 972.130





GALVANIZED PIPE FILLED WITH 30

- PRIMER GLIDDEN No. 5229

- PAINTED YELLOW UNLESS

OTHERWISE NOTED.

- GLIDDEN INDUSTRIAL ENAMEL

900mm HEIGHT AND 150mm Ø BOLLARD

MPA CONCRETE

PREPAINTED POSTS

FINISH COAT (2)

NEW 125mm THICK CONCRETE SLAB ISOLATION JOINT

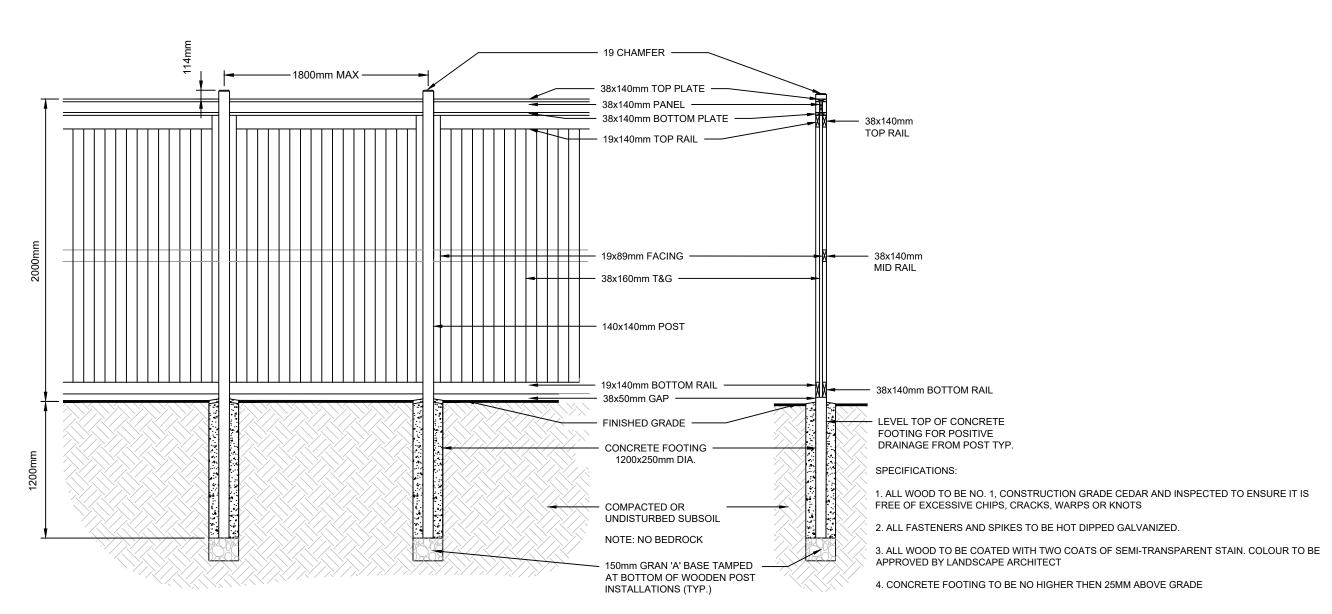
GRANULAR 'A'

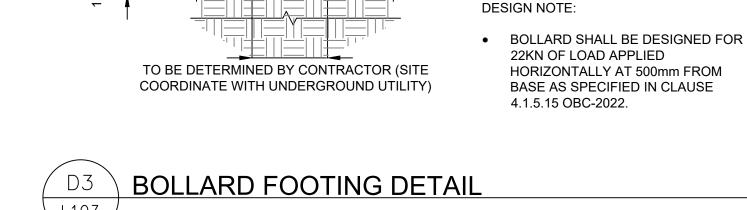
COMPACTED 150mm TH.

UNDISTURBED SUBGRADE

CHAIN LINK FENCE

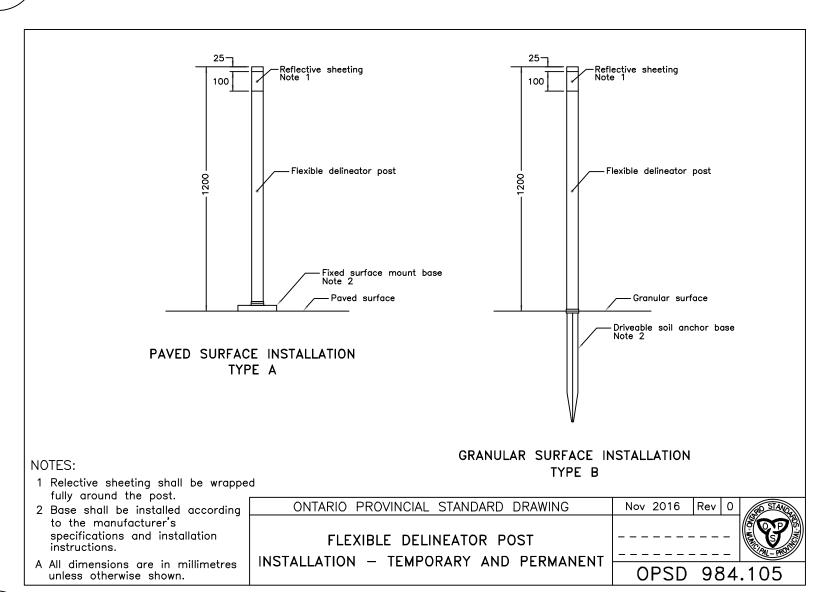
SCREENED SNOW STORAGE AREA AND ELECTRICAL SUBSTATION LOCATION





2.0m HT WOOD SCREEN FENCE

GARBAGE SCREEN FENCE



FLEXIBLE DELINEATOR POST

L103



PROJECT

NEWCOLD GUELPH - TO01 GUELPH, ONTARIO

CLIENT

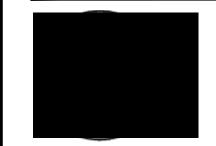
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AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

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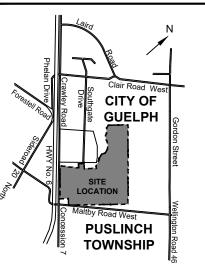
REGISTRATION



ISSUE/REVISION

by AECOM		6		
y AE		5		
agreed		4		
as agr		3	2023-04-28	ISSUED FOR PHASE 1 SPA
except		2	2023-03-02	ISSUED FOR CLIENT REVIEW
		1	2023-02-10	ISSUED FOR CLIENT REVIEW
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KEY PLAN



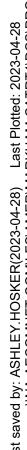
PROJECT NUMBER

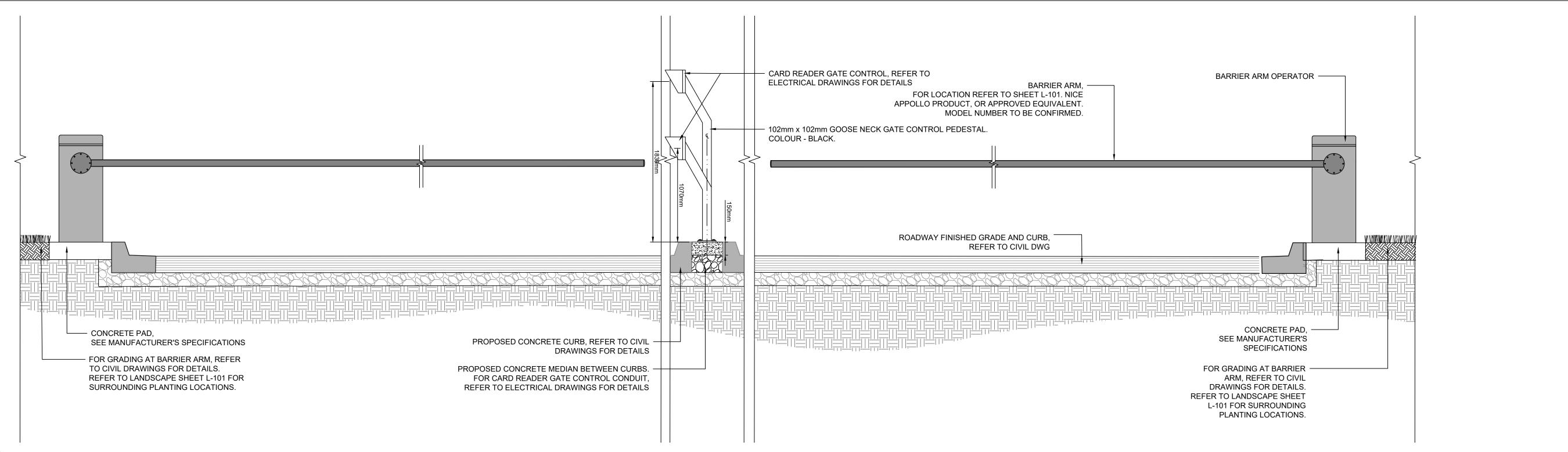
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SHEET TITLE

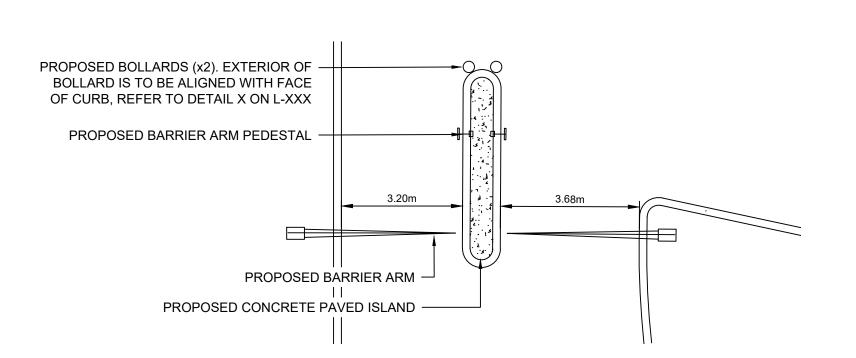
LANDSCAPE DETAILS

SHEET NUMBER





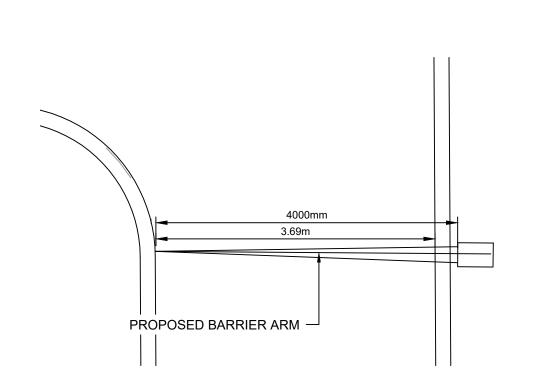
BARRIER ARM LIFT GATE



PLAN ENLARGEMENT 1:100

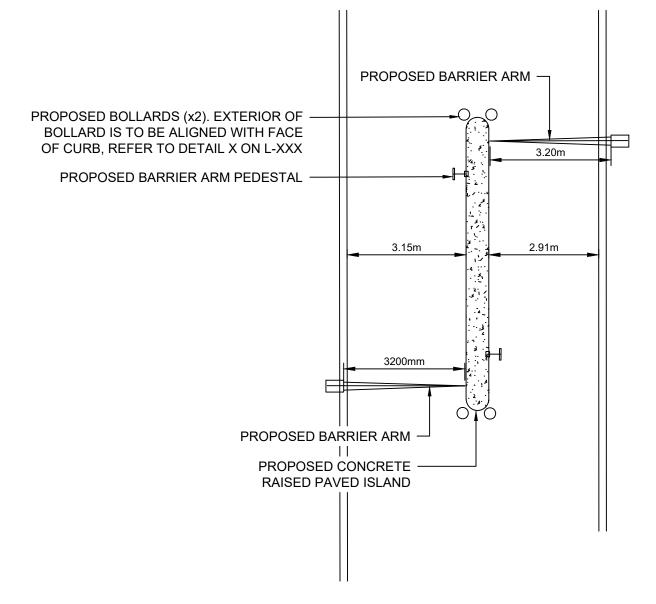
BARRIER ARM LIFT GATE

1:100 DOUBLE TRUCK ENTRANCE FROM SOUTHGATE DRIVE SOUTH



BARRIER ARM LIFT GATE

1:100 INTERIOR TRUCK EXIT

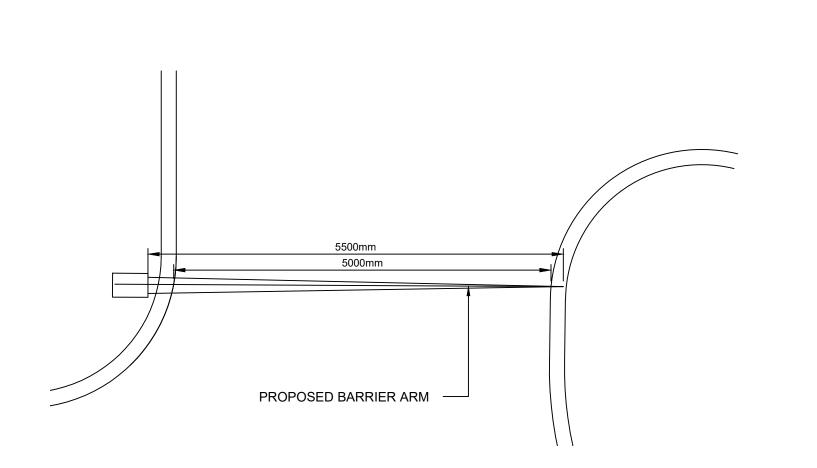


BARRIER ARM LIFT GATE

1:100 VEHICULAR ENTRANCE FROM CRAWLEY ROAD

4 MBAR/LBAR Models, AC with Solar Option Available

	M5BAR	M7BAR	
Arm Length Max.	10 to 16 ft (3 to 5m)	16 to 23 ft (5 to 7m)	
Field Adjustable	2.6	6-10 seconds	
Open/Close Time	3-6 seconds		
	Adjustable to 90 degrees	(recommended to limit	
Full Open Angle	to 87 degrees)		
Ingress Protection	IP44		
	Universal: field adaptab	le for left hand or right	
Handling	hand installations		
	Aluminum arm with red adhesive reflector and		
Arm Design	optional lights/bumper strips		
Duty Cycle	350 cycles/hr	200 cycles/hr	
Drive	Electromechanical		
Operating Voltage	24VDC		
Input Voltage	120VAC 60/50Hz		
Idle Current	1.1mA	1.1mA	
Temperature Rating	-4 to 122 F (-20 to 50 C)		
Communication	Optional Oview programmer, OVBT		
User Controls	BCU1 Control Board		
Relays	4 programmable voltage outputs		
Finish	Cataphoretic coating and paint finish		
ETL Listed (UL 325)	Usage Class I, II, III, IV		
Cycle Tested	1 million cycles		
Warranty	2 years		



BARRIER ARM LIFT GATE 1:100 INTERIOR TRUCK ENTRANCE

PROJECT

NEWCOLD GUELPH - TO01 GUELPH, ONTARIO

CLIENT

CONSULTANT

AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com

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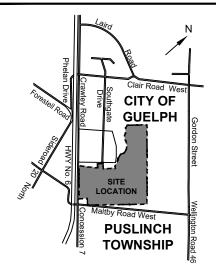
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