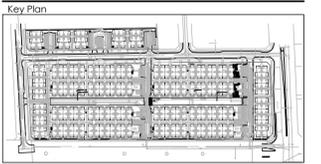


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LEGEND

----- PROPERTY LINE
 - - - - - LOW TO MED. SENSITIVE SOILS
 - - - - - BOUNDARY
 - - - - - DECORATIVE FENCE

PLANTING

- (+) DECIDUOUS STREET TREE (N.I.C.)
- (●) MEDIUM DECIDUOUS TREE
- (○) CONIFEROUS TREE
- (○) TREE FORMED SHRUB
- (○) DECIDUOUS SHRUB
- (○) CONIFEROUS SHRUB
- (○) ORNAMENTAL GRASSES
- (○) PERENNIALS

SURFACING

- [Pattern] RIVER STONE
- [Pattern] UNIT PAVERS LIGHT DUTY PAVING
- [Pattern] UNIT PAVERS HEAVY DUTY PAVING
- [Pattern] CIP CONCRETE LIGHT DUTY PAVING
- [Pattern] ASPHALT LIGHT DUTY PAVING

AMENITIES

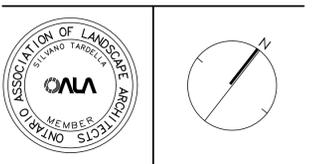
- (Bike icon) BIKE RACK
- (Boulder icon) GRANITE SEATING BOULDERS

DETAIL KEY

(1-D1) DETAIL NO.
 (1-D1) SHEET NO.

6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
4	ISSUED FOR SECOND SUBMISSION	APR 24/23
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Revision
 City Approval Stamp



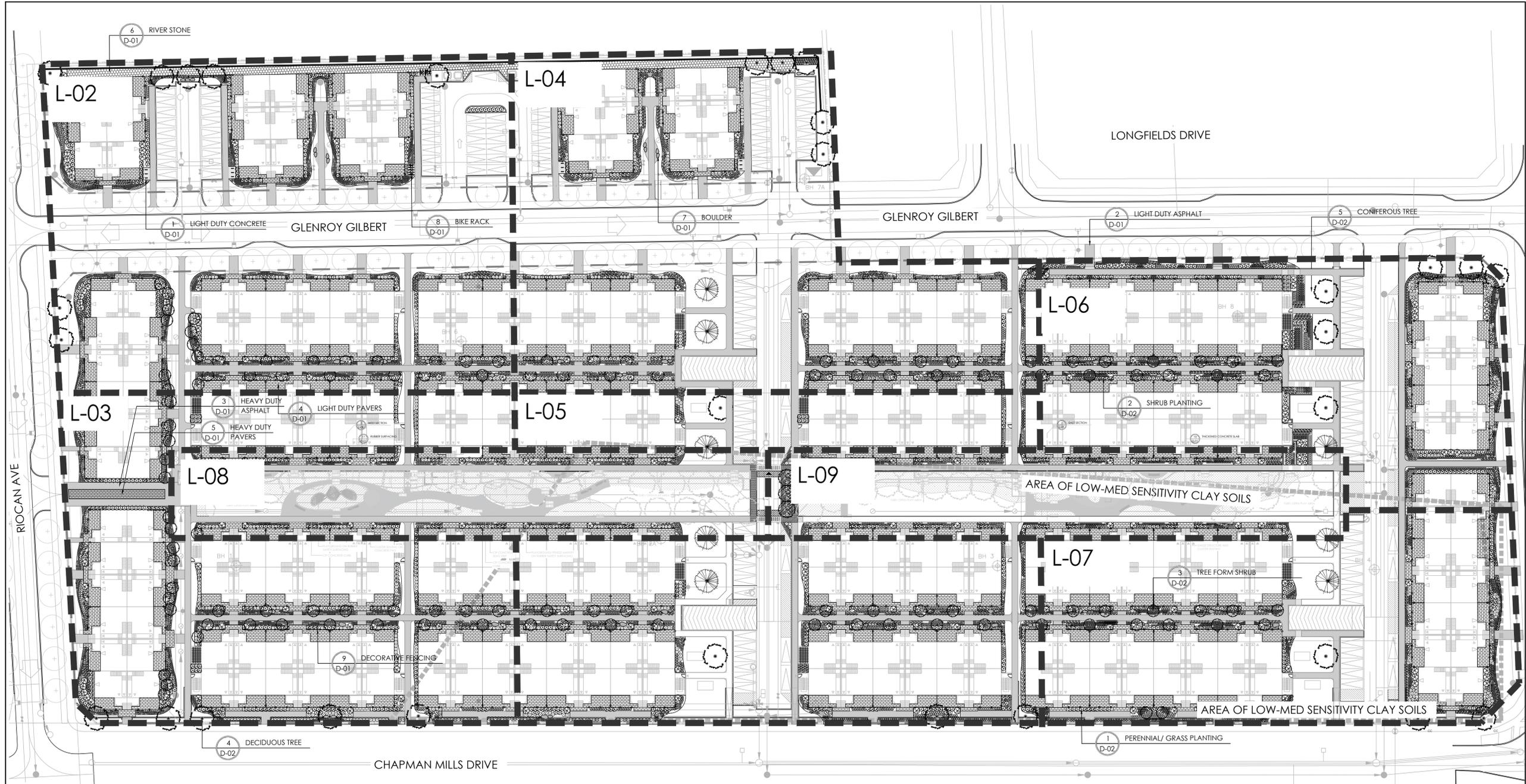
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BARRHAVEN TOWN CENTRE

Title
 LANDSCAPE PLAN

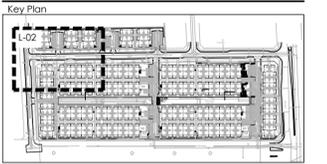
Date	JUNE 2022	Sheet	L-01
Scale	1:500		
Drawn	EL		
Checked	MK		
Job No.	21-195		



- GENERAL NOTES:**
- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISION OF THE STANDARDS AND SPECIFICATIONS FOR THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
 - THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
 - ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
 - ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 'OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.' THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE 'CONTRACTOR' AS DEFINED IN THE ACT.
 - ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE MINISTRY OF TRANSPORTATION OF ONTARIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PER LATEST AMENDMENT.
 - THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
 - ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED OTHERWISE.
 - THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE ENGINEER.
 - ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
 - ALL SEWERS CONSTRUCTED WITH GRADES LESS THAN 1.0% SHALL BE INSTALLED USING LASER ALIGNMENT AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF THE SAME.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING, OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH AS SPECIFIED BY OPSD IS EXCEEDED.

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- ALL PIPE / CULVERT SECTION SIZES REFER TO INSIDE DIMENSIONS.
- SHOULD DEEPLY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATELY.
- ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR, REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING / REMOVAL.
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SITE PLAN.
- THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER ONE SET OF AS CONSTRUCTED SITE SERVICING AND GRADING DRAWINGS.
- BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.

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LEGEND

PROPERTY LINE
DECORATIVE FENCE

PLANTING

DECIDUOUS STREET TREE (N.I.C.)
MEDIUM DECIDUOUS TREE
CONIFEROUS TREE
TREE FORMED SHRUB
DECIDUOUS SHRUB
CONIFEROUS SHRUB
ORNAMENTAL GRASSES
PERENNIALS

SURFACING

RIVER STONE
UNIT PAVERS LIGHT DUTY PAVING
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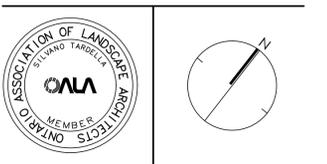
AMENITIES

BIKE RACK
GRANITE SEATING BOULDERS

PLANT KEY

PLANT SPECIES
QUANTITY

6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
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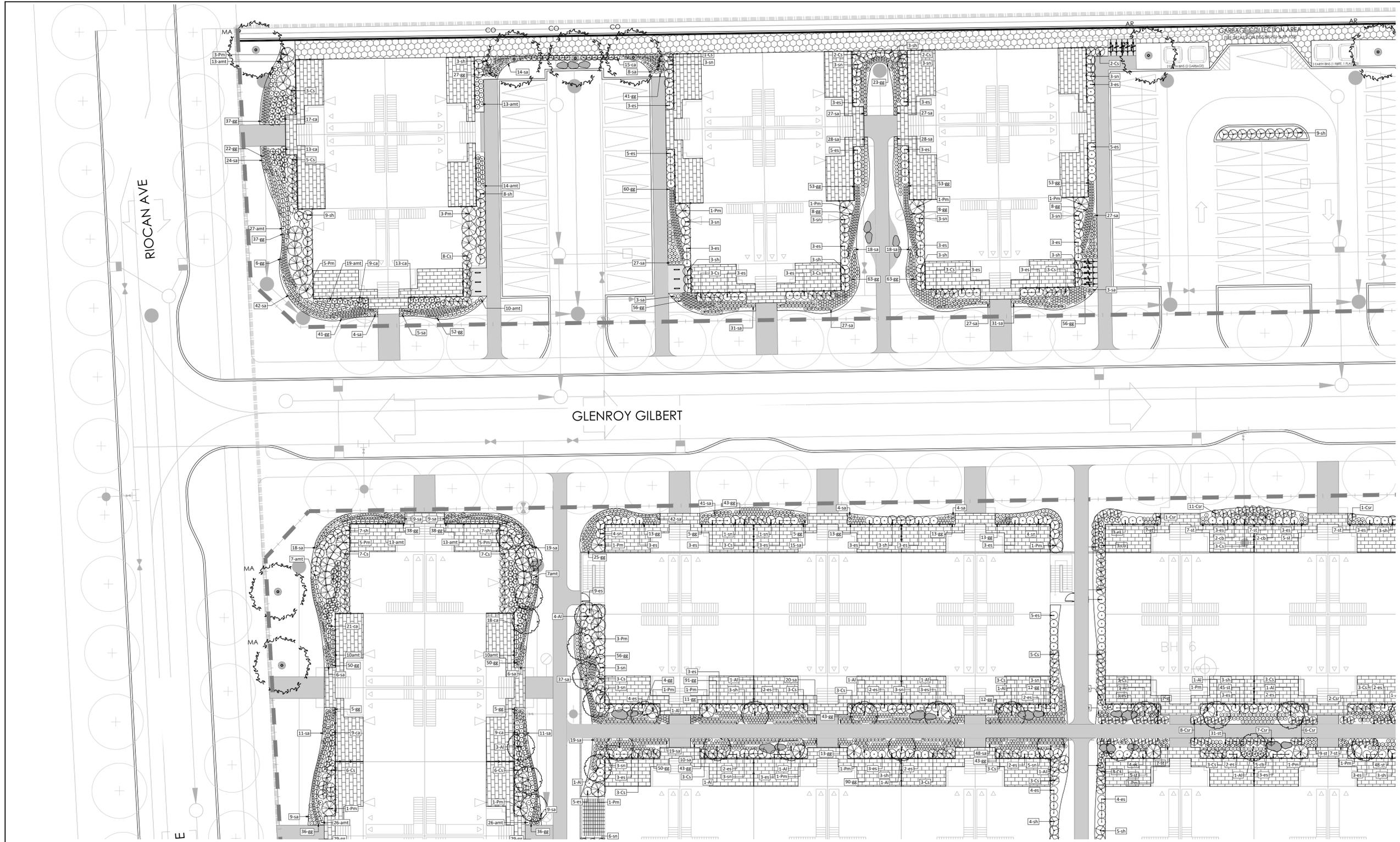


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BARRHAVEN TOWN CENTRE

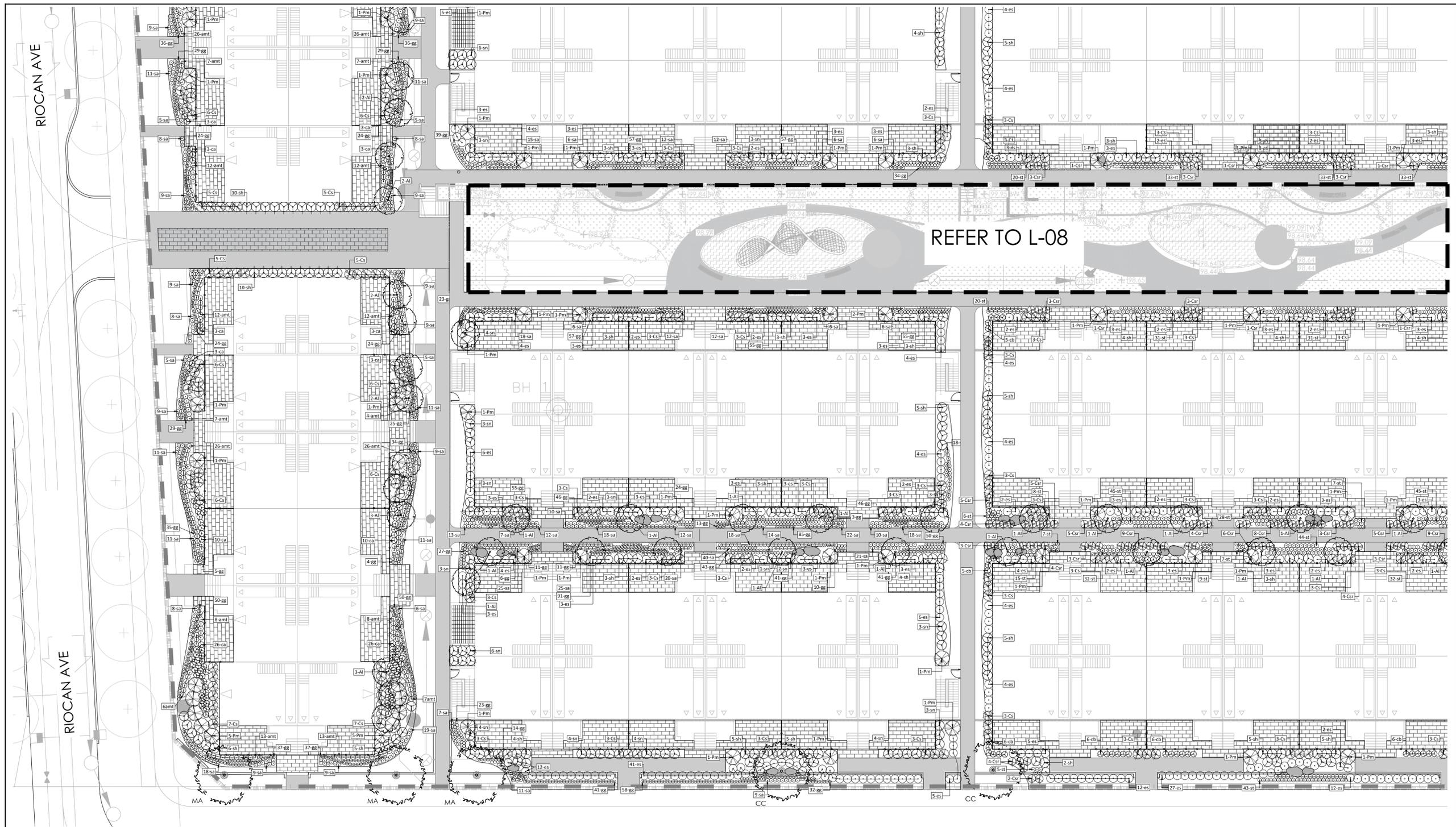
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Date	JUNE 2022	Sheet
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Checked	MK	
Job No.	21-195	



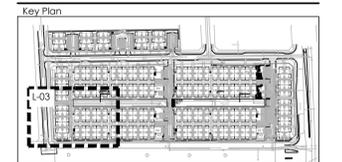
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- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
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 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm. REMOVE CLIPPINGS THAT WILL SMOOTH THE GRASS.
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 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE. THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.

PLANT LIST SITE PLAN

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AG	9	AESCULUS GLABRA	OHIO BUCKEY	70mm	B&B
AR	5	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	5	CORYLUS COLLURNA	TURKISH HAZEL	70mm	B&B
CO	3	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	6	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TM	3	TILIA MONSOUICA	MONGOLIAN LINDEN	70mm	B&B
CONIFEROUS TREES (10-15m)					
PB	8	PINUS BANKSIANA	JACK PINE	200cm	W&B
TREE FORMED SHRUBS					
AI	120	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL
DECIDUOUS SHRUBS					
Am	113	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL
Au	555	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE'	VANCOUVER JADE BEARBERRY	25cm	3 GAL
Cs	343	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL
Csr	574	COTONEASTER SALICIFOLIUS 'REPENS'	SPREADING WILLOWLEAF COTONEASTER	50cm	3 GAL
Po	243	PHYSCARPUS OPUULIFOLIUS 'LITTLE DEVIL'	LITTLE DEVIL NINEBARK	125cm	3 GAL
CONIFEROUS SHRUBS					
Pm	211	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL
GRASSES					
ca	751	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	150cm	1 GAL
cb	339	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL
ers	536	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL
pv	240	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL



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LEGEND

PROPERTY LINE
DECORATIVE FENCE

PLANTING

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- MEDIUM DECIDUOUS TREE
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- RIVER STONE
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- ASPHALT LIGHT DUTY PAVING

AMENITIES

- BIKE RACK
- GRANITE SEATING BOULDERS

PLANT KEY

- PLANT SPECIES
- QUANTITY

6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
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Revision

City Approval Stamp

PLANTING NOTES:

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- PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.
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ers	536	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL
pv	240	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL
sh	229	SPOROBIOLUS HETEROLEPIS	RAIRIE DROPSSEED	50cm	1 GAL
sn	128	SORGHASTRUM NUTANS	INDIAN GRASS	150cm	1 GAL
ss	43	SCHIZACHYRIUM SCOPARIUM 'BLUE PARADISE'	BLUE PARADISE LITTLE BLUE STEM	150cm	1 GAL
PERENNIALS					
amt	384	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	YARROW	50cm	1 GAL
am	3167	ALLIUM X 'MILLENIUM'	ORNAMENTAL ONION	50cm	1 GAL
es	1399	ASTER NOVIE-ANGIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL
es	619	ECHINACEA X SOMBRIFLORA 'HOT CORA'	CONEFLOWER	60cm	1 GAL
gg	3197	GALLIARDA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL
pa	122	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	60cm	1 GAL
sa	1633	SEDUM ALBUM	CARPET STONE CROP	50cm	1 GAL
st	2413	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL

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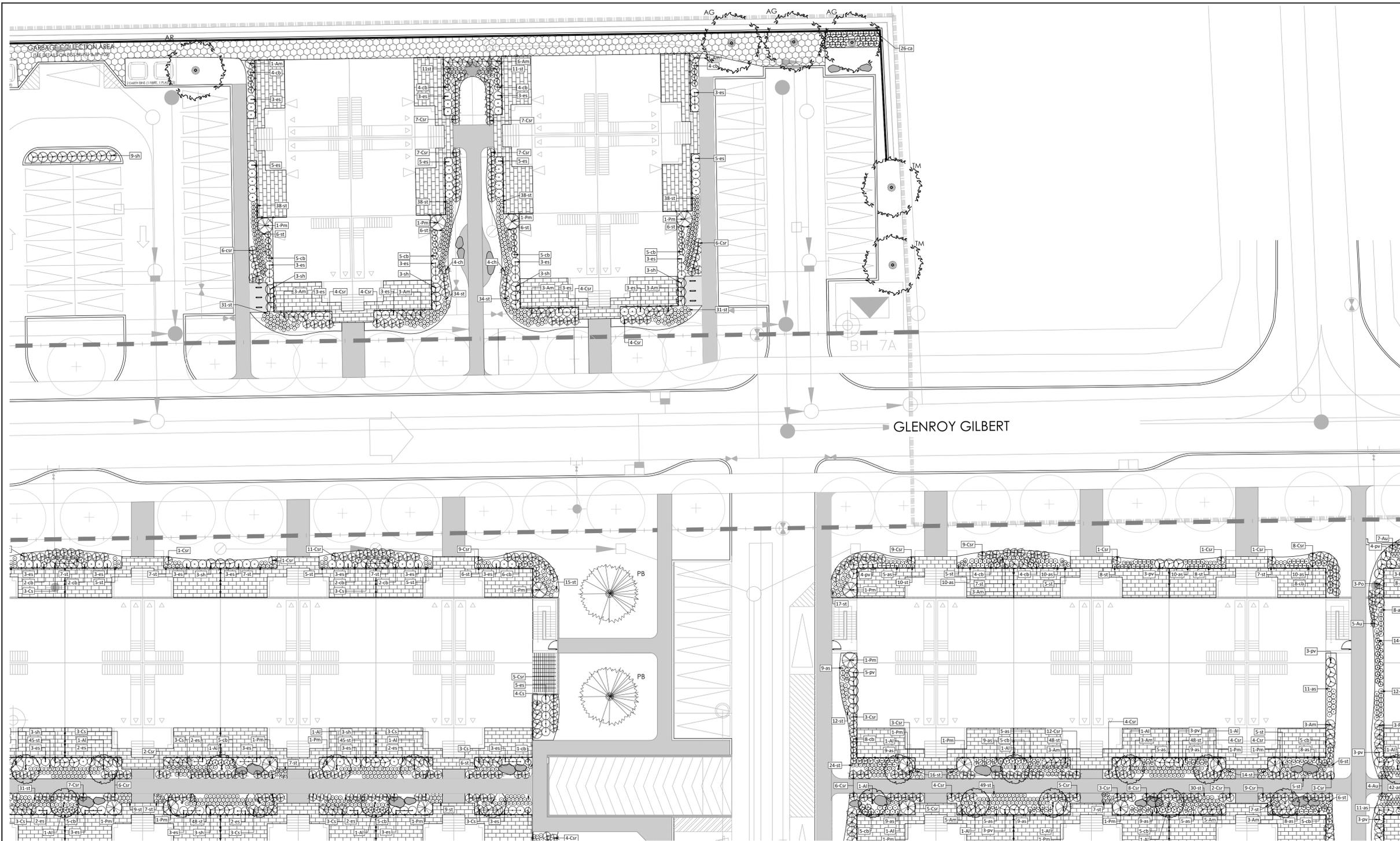
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Project

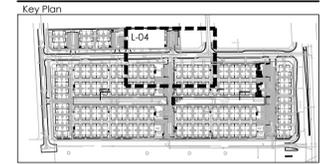
BARRHAVEN TOWN CENTRE

Title LANDSCAPE PLAN

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LEGEND

--- PROPERTY LINE
 - - - DECORATIVE FENCE

PLANTING

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- MEDIUM DECIDUOUS TREE
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PLANT KEY

- PLANT SPECIES
- QUANTITY

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City Approval Stamp

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NAK design strategies

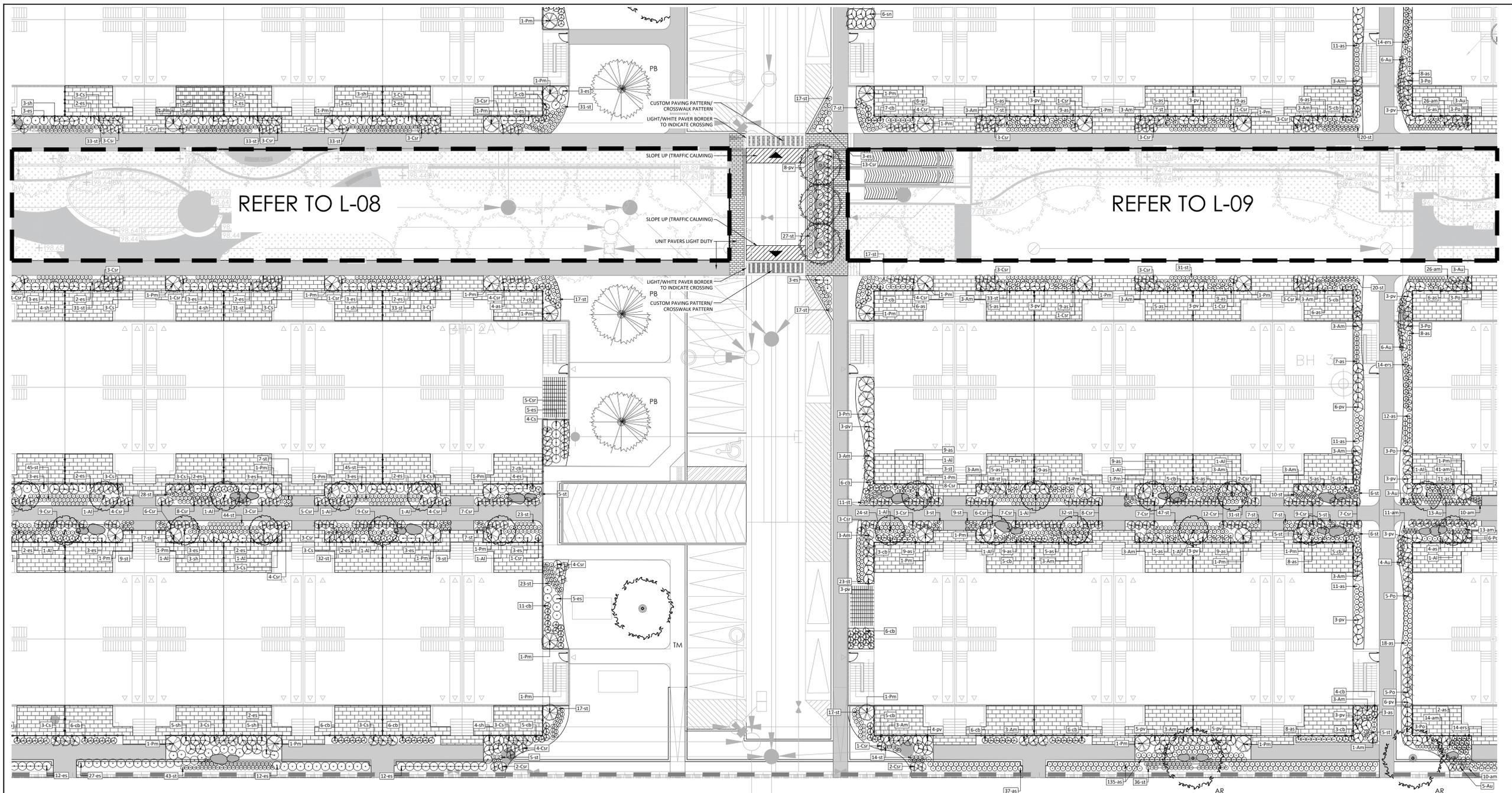
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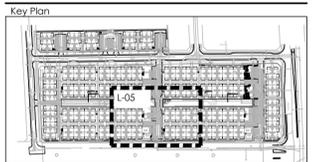
BARRHAVEN TOWN CENTRE

Title: LANDSCAPE PLAN

Date: JUNE 2022	Sheet:
Scale: 1:200	
Drawn: EL	
Checked: MK	
Job No.: 21-195	



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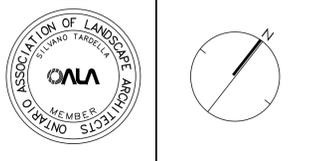
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PLANT KEY

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6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
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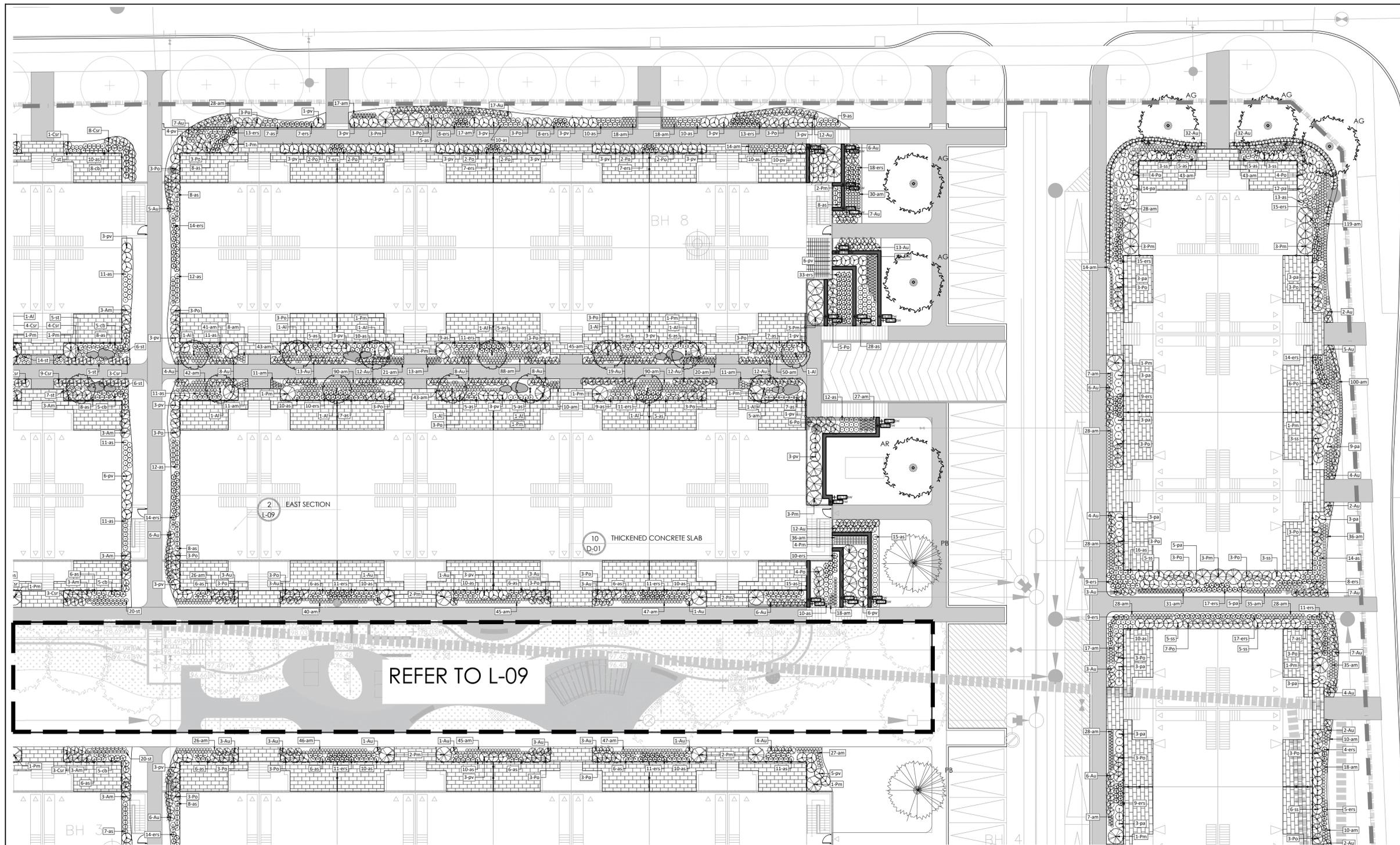
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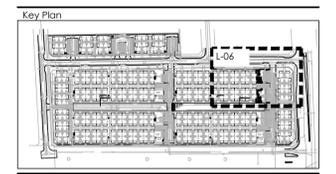
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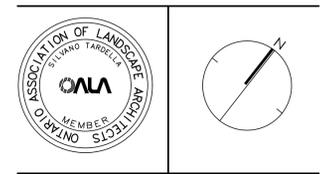
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Project
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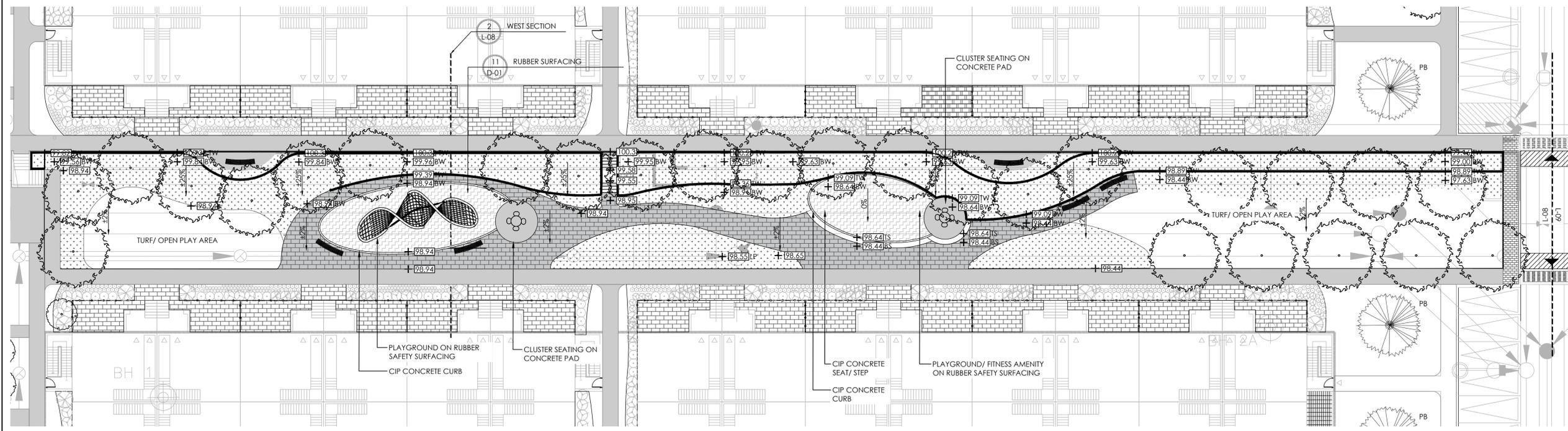
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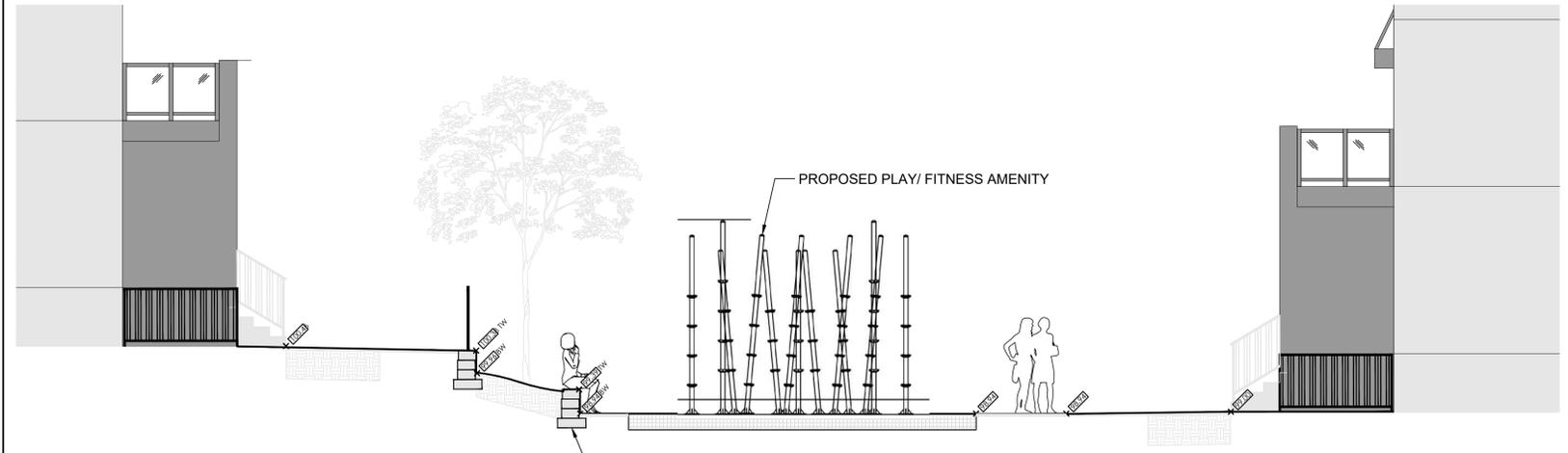
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1:200



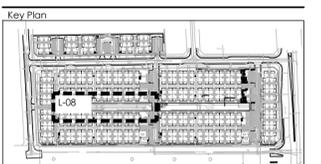
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 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE. THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.
- RETAINING WALL NOTES:**
- RETAINING WALL LAYOUT AND HEIGHT ARE UNDER REVIEW. FINAL RETAINING WALL LAYOUT AND DESIGN TO BE CONFIRMED WITH STRUCTURAL ENGINEER.
 - TREE LOCATIONS ARE UNDER REVIEW. FINAL PLACEMENT OF TREES TO BE CONFIRMED BASED ON REQUIRED DEPTH OF GEGRID REINFORCEMENT BEHIND RETAINING WALLS.

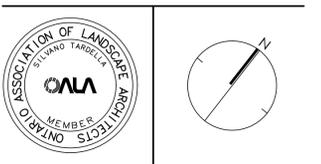
PLANT LIST AMENITY SPACE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL/HT.	ROOT
MEDIUM DECIDUOUS TREES (10-15m)					
AR	X	ACER RUBRUM 'REDPOINTE'	REDPOINTE MAPLE	70mm	B&B
CC	X	CORNUS COLORADA	TURKISH HAZEL	70mm	B&B
CO	X	CELTIS OCCIDENTALIS	HACKBERRY	70mm	B&B
MA	X	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TREE FORMES SHRUBS					
AI	X	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL
DECIDUOUS SHRUBS					
Am	X	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL
Cs	X	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL
CONIFEROUS SHRUBS					
Pm	X	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL
GRASSES					
cb	X	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL
ers	X	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL
pv	X	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL
PERENNIALS					
as	X	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL
es	X	ECHINACEA X SOMBRERO 'HOT CORA'	CONEFLOWER	60cm	1 GAL
gs	X	GALLARDIA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL
pa	X	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	60cm	1 GAL
st	X	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL



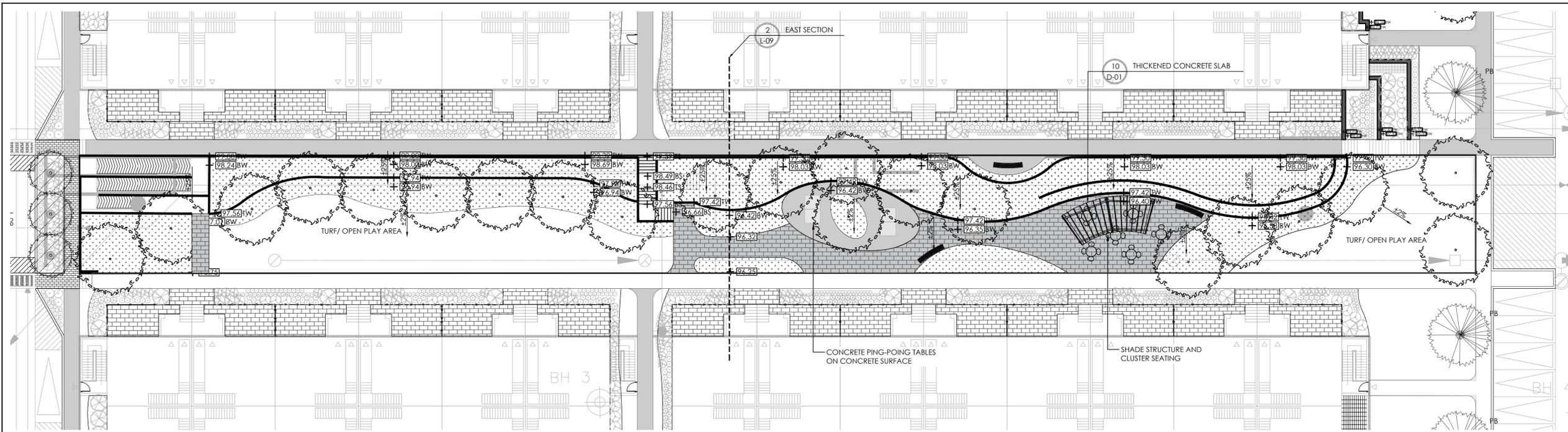
- LEGEND**
- PROPERTY LINE
 - PRIVATE TERRACE FENCE
 - GIARD RAIL ON RET. WALL
 - LANDSCAPE RETAINING WALL
- PLANTING**
- DECIDUOUS TREE
 - SHRUB/ PERENNIALS/ GRASSES
- SURFACING**
- LIGHT DUTY UNIT PAVERS
 - CIP CONCRETE LIGHT DUTY PAVING
 - ASPHALT LIGHT DUTY PAVING
 - RUBBER SAFETY SURFACE
- AMENITIES**
- ACCESSIBLE BENCH/ CLUSTER SEATING
 - CONCRETE PING PONG TABLE

Revision	Description	Date
6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
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3	ISSUED FOR FIRST SUBMISSION	JUN 30/22
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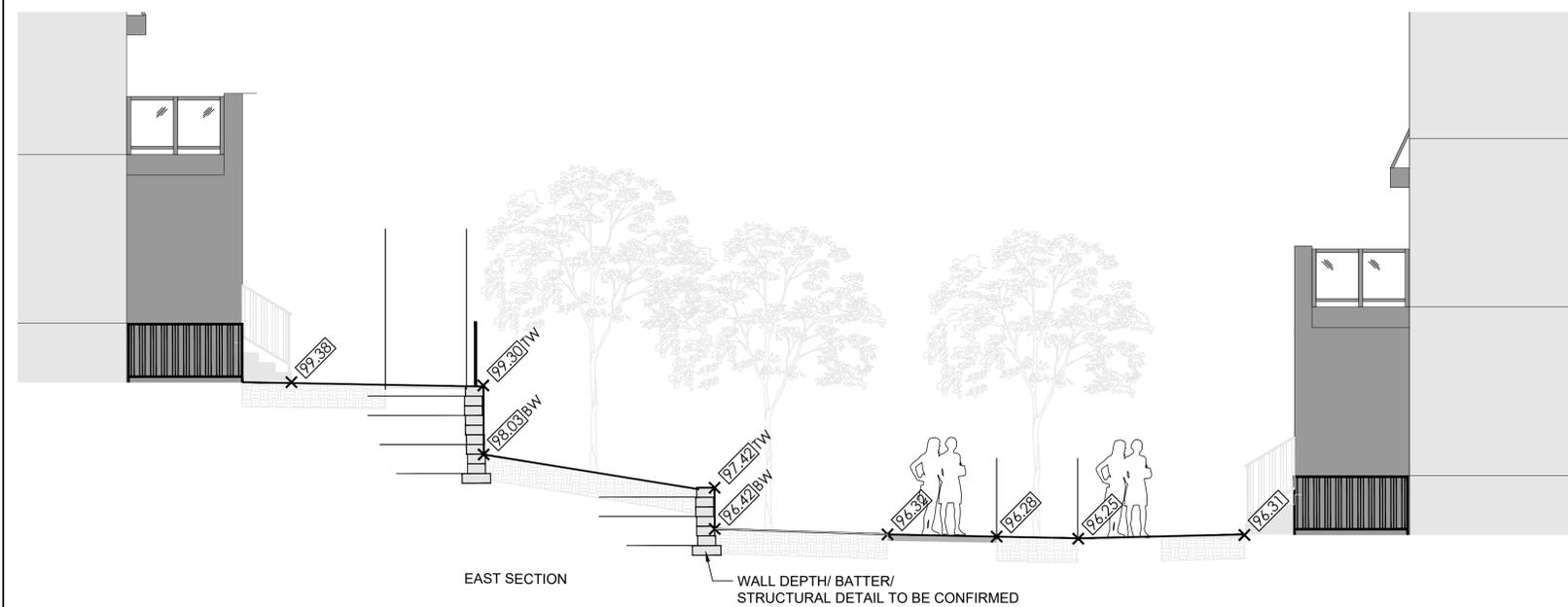


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minto
Communities



1 CENTRAL AMENITY SPACE
1:200



2 EAST SECTION
1:60

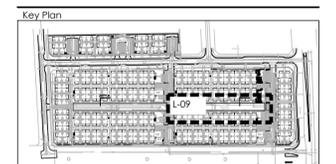
- PLANTING NOTES:**
- CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES PRIOR TO ANY EXCAVATION.
 - LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED BY THE CONTRACTOR AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PITS.
 - ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE NOTED.
 - DECIDUOUS TREES TO HAVE A MINIMUM 1800 CLEAR STEM ABOVE GRADE.
 - ALL PLANT MATERIAL SHALL BE WARRANTED FOR TWO YEARS FROM THE DATE OF PERFORMANCE ACCEPTANCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
 - ALL STEEL T-BARS TO BE REMOVED AT THE ONE YEAR INTERIM INSPECTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
 - CONTRACTOR TO MAKE GOOD ALL EXISTING AREAS DAMAGED BY HIS WORK TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
 - PERIODIC REVIEWS OF PLANTING SHALL BE CARRIED OUT BY THE LANDSCAPE ARCHITECT.
 - ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE AND ONLY AFTER APPROVAL OF THE LANDSCAPE ARCHITECT.
- SHRUB NOTES:**
- PLACE THE SHRUB AS UPRIGHT AS POSSIBLE, INCLUDING ON SLOPES.
 - PLANT SHRUBS AT THE PROPER DEPTH AS INDICATED ON THE DRAWINGS.
 - PACK THE SOIL WELL AROUND THE PLANT BASE TO REMOVE AIR POCKETS, BUT DO NOT COMPACT SOIL. PRESS SOIL GENTLY BUT FIRMLY TO PREVENT SHOCKING THE ROOTS.
 - PLACE SPECIES ACCORDING TO THE QUANTITIES AND SPACING AS INDICATED ON THE DRAWINGS.
 - PLANT SHRUBS AT THE PROPER DEPTH THE ROOT COLLARS SHOULD BE AT GROUND LEVEL.

- MULCH THE SOIL SURFACE AS INDICATED ON DRAWINGS.
 - WATER PLANTS THOROUGHLY FOLLOWING PLANTING.
 - REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS.
- SOD NOTES:**
- SODDED AREAS SHALL HAVE A MINIMUM 150mm TOPSOIL.
 - FIRM THE SOIL BY GENTLY TAMPING OR ROLLING THE TOPSOIL. DO NOT COMPACT THE SOIL. EXCESSIVE FORCE WILL DESTROY THE SOIL STRUCTURE AND INHIBIT GERMINATION.
 - CUT THE GRASS TO 50mm WHENEVER IT REACHES THE HEIGHT OF 70mm. REMOVE CLIPPINGS THAT WILL SMOOTHER GRASS.
 - SODDED AREAS WILL BE ACCEPTED BY THE PROJECT MANAGER FOLLOWING PERFORMANCE ACCEPTANCE, PROVIDED:
 - SEEDED AREAS ARE PROPERLY ESTABLISHED.
 - TURF IS FREE OF DEAD SPOTS AND WEEDS.
 - NO SURFACE SOIL IS VISIBLE WHEN GRASS HAS BEEN CUT TO A HEIGHT OF 50mm
 - TURF AREAS HAVE BEEN CUT NO LESS THAN TWICE. THE LAST CUT BEING CARRIED OUT WITHIN 24 HOURS PRIOR TO THE ACCEPTANCE INSPECTION.
- RETAINING WALL NOTES:**
- RETAINING WALL LAYOUT AND HEIGHT ARE UNDER REVIEW. FINAL RETAINING WALL LAYOUT AND DESIGN TO BE CONFIRMED WITH STRUCTURAL ENGINEER.
 - TREE LOCATIONS ARE UNDER REVIEW. FINAL PLACEMENT OF TREES TO BE CONFIRMED BASED ON REQUIRED DEPTH OF GEGRID REINFORCEMENT BEHIND RETAINING WALLS.

PLANT LIST AMENITY SPACE

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MA	X	MAACKIA AMURENSIS	AMUR MAACKIA	70mm	B&B
TREE FORMES SHRUBS					
AI	X	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	125cm	7 GAL.
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Am	X	ARONIA MELANOCARPA	BLACK CHOKEBERRY	125cm	3 GAL.
Cs	X	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE DOGWOOD	175cm	3 GAL.
CONIFEROUS SHRUBS					
Pm	X	PINUS MUGO VAR. PUMILIO	DWARF MUGO VAR. PUMILIO	125cm	3 GAL.
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cd	X	CALAMAGROSTIS BRACHYTRICHA	AUTUMN FEATHER GRASS	125cm	1 GAL.
ers	X	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	50cm	1 GAL.
pw	X	PANICUM VIRGATUM	SWITCH GRASS	150cm	1 GAL.
PERENNIALS					
as	X	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	50cm	1 GAL.
es	X	ECHINACEA X SOMBRERO 'HOT CORA'	CONFLOWER	60cm	1 GAL.
es	X	GALLIARDIA X GRANDIFLORA 'ARIZONA RED'	BLANKET FLOWER	30cm	1 GAL.
rs	X	PEROVSKIA ATROPICIFOLIA	RUSSIAN SAGE	60cm	1 GAL.
st	X	SEDUM TELEPHIUM 'MATRONA'	STONECROP	60cm	1 GAL.

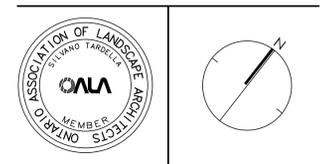
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- LEGEND**
- PROPERTY LINE
 - PRIVATE TERRACE FENCE
 - GUARD RAIL ON RET. WALL
 - LANDSCAPE RETAINING WALL
- PLANTING**
- DECIDUOUS TREE
 - SHRUB/ PERENNIALS/ GRASSES
- SURFACING**
- LIGHT DUTY UNIT PAVERS
 - CIP CONCRETE LIGHT DUTY PAVING
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City Approval Stamp



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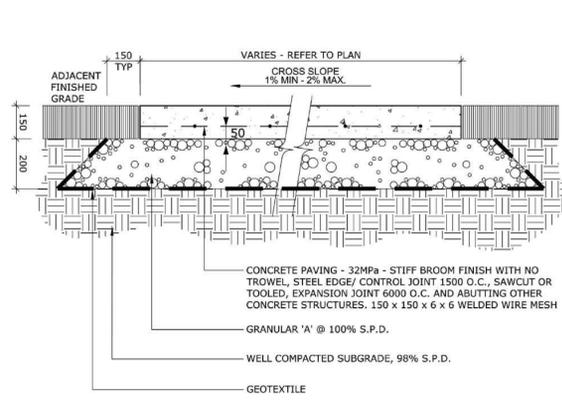


BARRHAVEN TOWN CENTRE

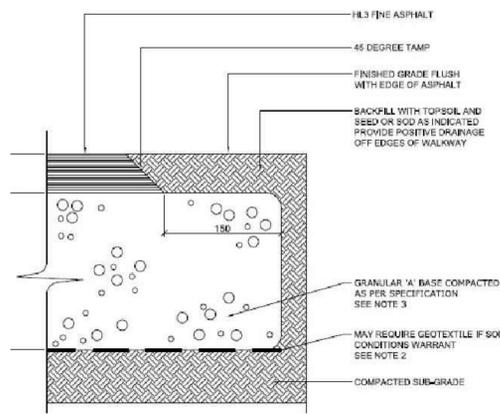
Title: AMENITY SPACE

Date: JUNE 2022
Scale: 1:200
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Checked: MK
Job No.: 21-195

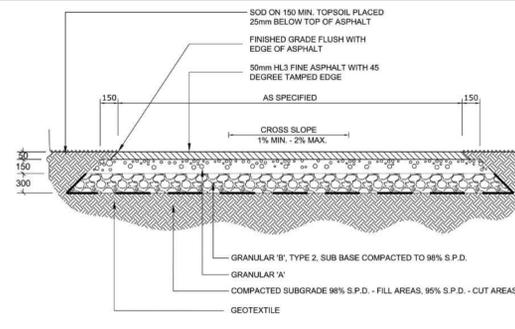
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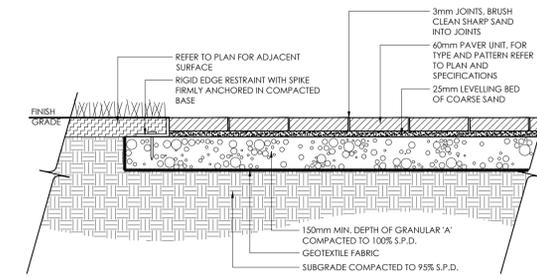
- NOTES:**
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
 - CONCRETE SHALL BE 32MPa CLASS C-2 MEETING THE REQUIREMENTS OF S.P. F-3510 AND PLACED IN ACCORDANCE WITH S.P. F-9040
 - GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010
 - APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITION, SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR



- NOTE:**
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
 - CROSS SLOPE SIDEWALK 1 TO 2% IN DIRECTION OF NATURAL DRAINAGE TO PROVIDE POSITIVE DRAINAGE OFF ALL WALKS
 - APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITION, SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR
 - GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010



- NOTES:**
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
- EXCAVATION:** EXCAVATE TO 500mm MIN. DEPTH OR DEEPER, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY UNSUITABLE SUBGRADE MATERIAL SUCH AS TOPSOIL, ALL SOFT SPOTS AND/OR ORGANIC MATTER AND REPLACEMENT WITH CLEAN SUBSOIL. SUBGRADE SHALL BE CONSOLIDATED TO A 98% S.P.D. REMOVE EXCAVATED MATERIAL OFF SITE UNLESS OTHERWISE DIRECTED
- GRANULAR BASE:** GRANULAR 'A' - 100% STANDARD PROCTOR DENSITY MIN. GRANULAR 'B', TYPE 2, SUB BASE GRANULARS TO OPSS
- ASPHALT:** 50 TOP SURFACE LAYER (AFTER COMPACTION) OF HOT MIX H/L3 FINE IN ACCORDANCE WITH O.P.S.S. STANDARDS
- EDGE TREATMENT:** ASPHALT EDGE TO BE 45 DEGREES WELL TAMPED TO FORM UNIFORMLY SMOOTH, CLEAN EDGES WITHOUT LATERAL DEVIATIONS. SOD TO FEATHER IN WITH EXISTING SOD AND GRADES AT A MAXIMUM SLOPE OF 4:1. ALL SODDED AREAS SHALL BE 25mm BELOW THE ASPHALT SURFACE. REPLACE ALL TOPSOIL AND SOD AS DIRECTED IN CUT AND FILL SITUATIONS
- DRAINAGE:** SLOPE TO BE A MINIMUM OF 2% ON CROWNED OR CROSS SLOPED PATHS AS DIRECTED ON SITE OR AS SHOWN IN DRAWINGS
- SODDING:** ALL DISTURBED AREAS ALONG ASPHALT WALKWAYS SHALL BE SODDED OVER 150mm TOPSOIL FOR A MINIMUM DISTANCE OF 300mm
- GEOTEXTILE:** GEOTEXTILES SHALL BE APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITIONS, SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR
- *NOTE: TO BE CONFIRMED WITH SOIL INVESTIGATIONS AND MODIFIED ACCORDINGLY**



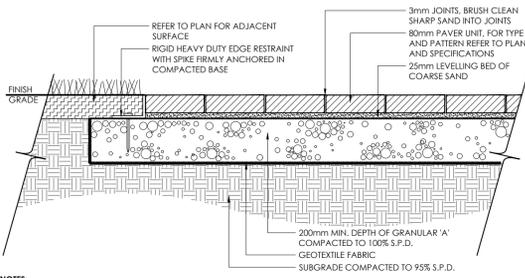
- NOTES:**
- FOR PAVES TYPE REFER TO SPECIFICATIONS. PAVES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH TIGHT BUTT JOINTS OF APPROXIMATELY 3mm. ON A SAND BASE. SAW CUT PAVES AS REQUIRED. USE AN APPROVED VIBRATORY COMPACTOR IN A CIRCULAR PATTERN.
 - ALL DAMAGED OR CHIPPED PAVES MUST BE REPLACED AT THE CONTRACTOR'S COST.
 - EXCAVATE AND REMOVE ALL TOPSOIL AND UNSTABLE MATERIALS OFF SITE. SUBGRADE TO BE GRADED TO SIMILAR CONTOURS AS FINISH GRADE. COMPACT SUBGRADE TO 95% S.P.D. PLACE 150mm LAYER OF GRANULAR 'A' COMPACTED TO 100% S.P.D.
 - PLACE MAXIMUM 25mm UNCOMPACTED SAND FOR LEVELLING COURSE.
 - INSTALL PAVING UNITS IN THE PATTERN AS SPECIFIED PER MANUFACTURER'S PATTERN RECOMMENDATION AND SPECIFICATIONS.
 - RETAIN EDGING WITH RIGID PAVES EDGE RESTRAINTS AS PER SPECIFICATIONS.

1 LIGHT DUTY CONCRETE
N.T.S.

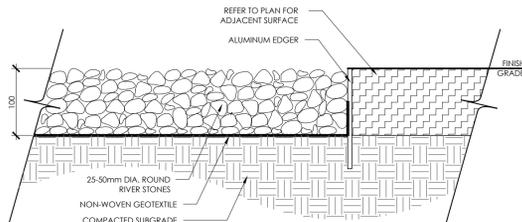
2 LIGHT DUTY ASPHALT
N.T.S.

3 HEAVY DUTY ASPHALT
N.T.S.

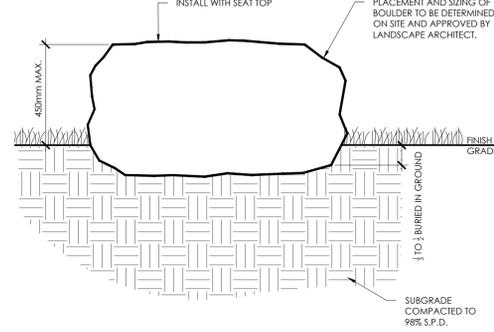
4 LIGHT DUTY PAVERS
1:15



- NOTES:**
- PAVERS REFER TO SPECIFICATIONS. PAVES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH TIGHT BUTT JOINTS OF APPROXIMATELY 3mm ON A SAND BASE. SAW CUT PAVES AS REQUIRED. USE AN APPROVED VIBRATORY COMPACTOR IN A CIRCULAR PATTERN.
 - ALL DAMAGED OR CHIPPED PAVES MUST BE REPLACED AT THE CONTRACTOR'S COST.
 - EXCAVATE AND REMOVE ALL TOPSOIL AND UNSTABLE MATERIALS OFF SITE. SUBGRADE TO BE GRADED TO SIMILAR CONTOURS AS FINISH GRADE. COMPACT SUBGRADE TO 95% S.P.D. PLACE 200mm LAYER OF GRANULAR 'A' COMPACTED TO 100% S.P.D.
 - PLACE MAXIMUM 25mm UNCOMPACTED SAND FOR LEVELLING COURSE.
 - INSTALL PER UNITS IN THE PATTERN SPECIFIED PER MANUFACTURER'S PATTERN RECOMMENDATION AND SPECIFICATIONS.
 - RETAIN EDGING WITH RIGID, HEAVY DUTY PAVES EDGE RESTRAINTS AS PER SPECIFICATIONS.
 - ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

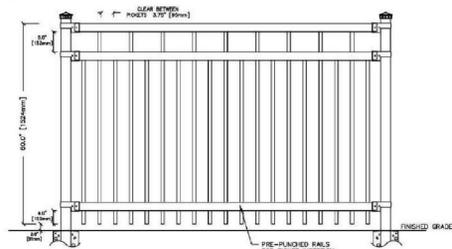


- NOTES:**
- APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MS-22.15 WHEN WARRANTED BY SOIL CONDITION, SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT.
 - RETAIN RIVERSTONES WITH RIGID EDGE RESTRAINTS AS PER SPECIFICATIONS.



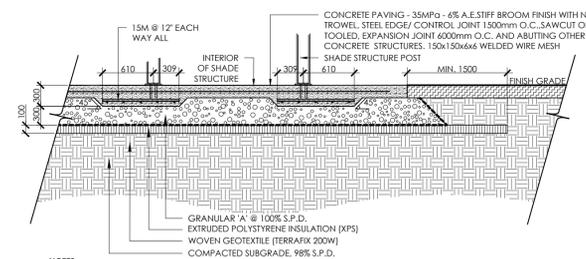
- NOTES:**
- NO SHARP EDGES, CRACKS OR SPALLING.
 - NO FROST SUSCEPTIBLE BOULDER

5 HEAVY DUTY PAVERS
1:15



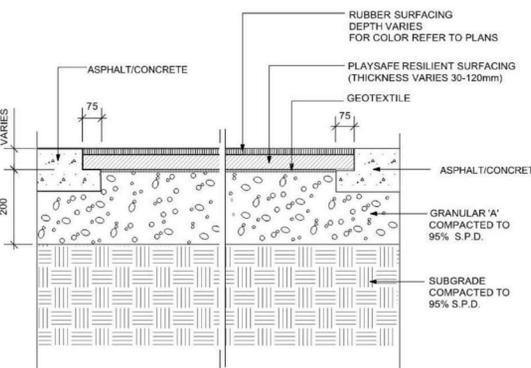
PANEL HEIGHT	PANEL WIDTH	POST CENTERS
UP TO 6FT. HIGH	9'1" [231mm]	96" [2415mm]
7FT. AND HIGHER	7'2" [182mm]	77" [1922mm]

- SPECIFICATIONS:**
- POSTS & PICKETS:** COLD FORMED STEEL TUBING INTERIOR & EXTERIOR GALVALUME™ COATING
- RAILS:** 2 1/2" COATED COLD FORMED TUBING (C.O.C. Members: Magnum) COATED INTERIOR AND EXTERIOR
- FINISH:** CHROMIUM CONVERSION COATING ELECTROLYTICALLY APPLIED THERMALLY BONDED POLYESTER POWDER COATING MINIMUM FILM THICKNESS 2.0mm
- POSTS:** 76mm x 76mm (3"x3") 16GA, 1560 OR 2500MILL. OPTION: 102mm x 102mm (4"x4") OR 152mm x 152mm (6"x6")
- POST FLANGES:** 152mm x 152mm x 6mm (6"x6"x1/4") OR 203mm x 203mm x 13mm (8"x8"x1/2")
- POST CAP:** PYRAMID OR BALL
- RAILS:** 38mm x 84mm (1 1/2" x 3 1/4") 16GA
- PICKETS:** 25mm x 25mm (1" x 1") 16GA
- FITTINGS:** 12GA STAMPED FORGED (FINISH AS DESIGNED)
- WELDS:** STAINLESS STEEL
- COLORS:** STANDARD COLORS ARE BLACK, ITEM-BLACK, BROWN, GREEN, WHITE AND FOREVER GREEN. (CUSTOM COLORS AVAILABLE UPON REQUEST)
- WARRANTY:** FIVE YEARS
- NOTES:** ALL TYPES OF GATES AVAILABLE TYPED 'RTOOT' NOT AVAILABLE E-COAT PROTECTION AVAILABLE (ADDITIONAL FIVE YEAR WARRANTY)



- NOTES:**
- CONCRETE TO BE 35 MPa CLASS C-1 MEETING THE REQUIREMENTS OF S.P. F-3510 AND PLACED IN ACCORDANCE WITH S.P. F-9040. SEE SPECIFICATIONS.
 - GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010.

7 BOULDER
1:5



- NOTE:**
- ALL DIMENSIONS ARE IN MILLIMETRES.
 - REFER TO PLAN FOR RUBBER SURFACE COLOUR.

11 RUBBER SURFACING
N.T.S.

ELEVEN' BIKE RACK

MARK HOLE LOCATIONS: Place bike rack in desired location ensuring specifications. Mark center of each hole location with a pencil. Note for 30" anchors, a minimum 6" thick concrete slab is recommended for mounting.

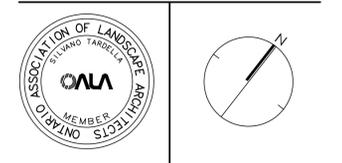
DRILL HOLES: Use hammer drill to drill 4 1/2" deep x 3/4" diameter anchor hole at each marked location using a 3/4" drill bit suitable for concrete drilling. NOTE: Forms+Surfaces recommends starting holes with 1/2" diameter drill bit followed by 1/2" and finally 3/4" for maximum accuracy.

FILL HOLES & INSERT ANCHORS: Use compressed air and steel wire brush to clean each anchor hole in accordance with scope instructions. Use epoxy to fill each hole. Use 3/4" of the hole depth in accordance with scope instructions. Insert 3/4" x 6-1/2" epoxy anchor (6) into each anchor hole so anchor top is flush with ground. Allow epoxy curing. See accompanying color schedule for epoxy instructions before mounting on to Step 4.

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City Approval Stamp



NAK design strategies
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Project

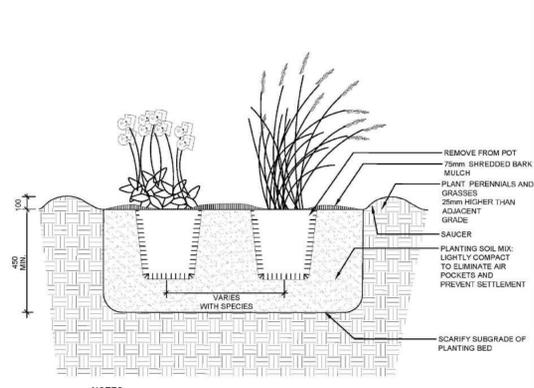
BARRHAVEN TOWN CENTRE

Title

DETAILS

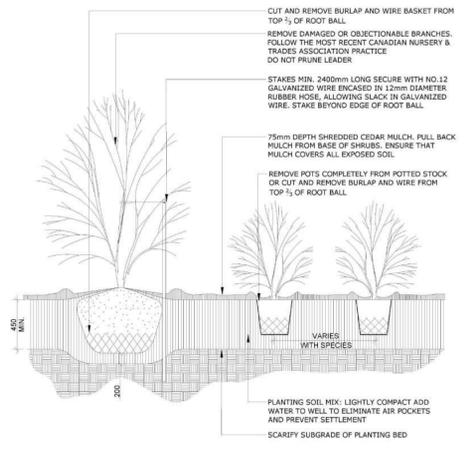
Date	JUNE 2022	Sheet	
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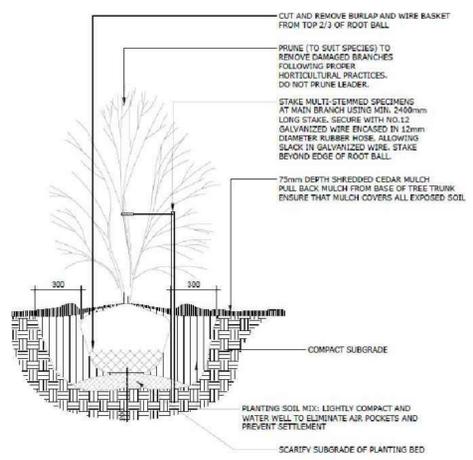
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
 3. PROVIDE 100MM HIGH EARTH SAUCER AROUND PERENNIAL/GRASS BED.

1 PERENNIAL/GRASSES PLANTING
N.T.S.



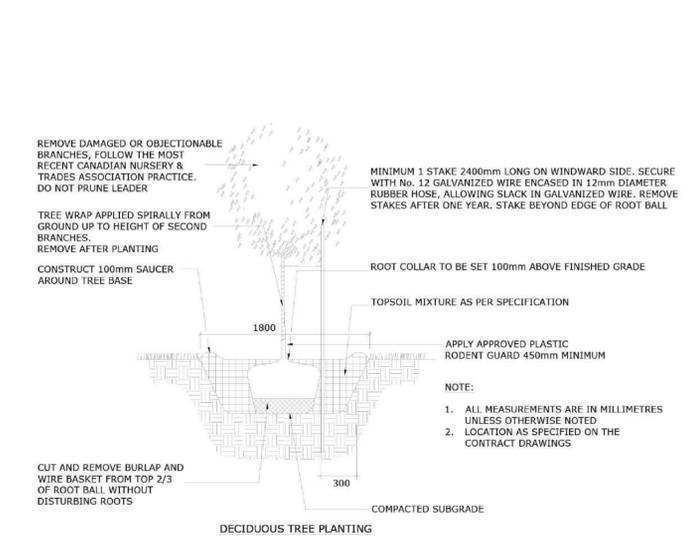
- NOTES:**
1. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
 2. SHRUBS SPECIFIED BARE ROOTS (B.R.) TO BE PLANTED SO THAT ROOTS ARE FULLY EXTENDED IN PLANTING HOLE WITH SOIL MIX BACKFILLED CAREFULLY TO PREVENT ROOT DAMAGE
 3. PROVIDE 100 HIGH EARTH SAUCER AROUND SHRUB BED
 4. STAKES TO BE REMOVED AT COMPLETION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

2 SHRUB PLANTING
N.T.S.

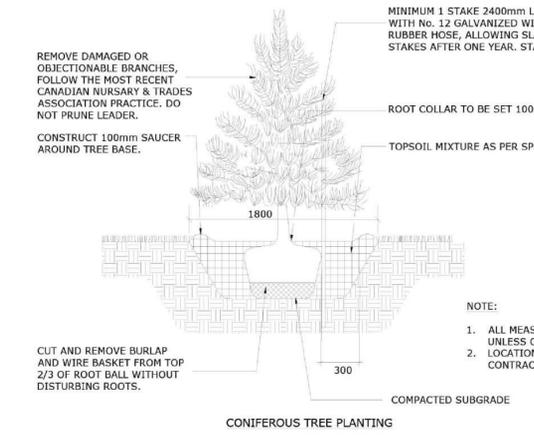


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
 2. PLANTING SOIL MIXTURE AS PER SPECIFICATION
 3. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD

3 TREE FORM SHRUB
N.T.S.



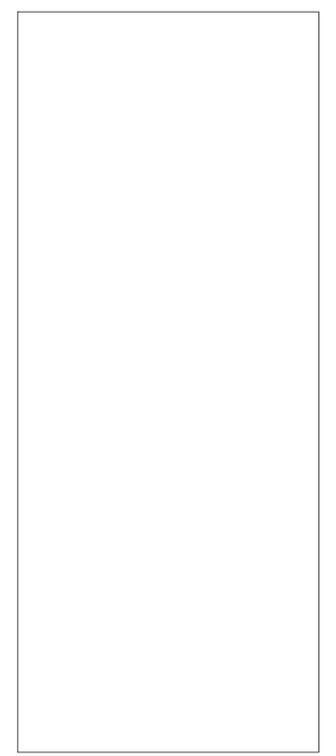
4 DECIDUOUS TREE
N.T.S.



- NOTE:**
1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
 2. LOCATION AS SPECIFIED ON THE CONTRACT DRAWINGS

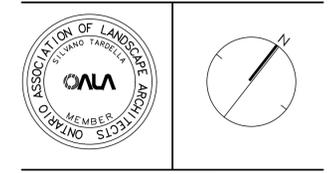
5 CONIFEROUS TREE
N.T.S.

Contractor shall check all dimensions on the work and report any discrepancy to the Landscape Architect before proceeding. All drawings and specifications are the property of the Landscape Architect and must be returned at the completion of the work. This drawing is not to be used for construction until signed by the Landscape Architect.



6	RE-ISSUED FOR SECOND SUBMISSION	JUN 30/23
5	RE-ISSUED FOR SECOND SUBMISSION	MAY 31/23
4	ISSUED FOR SECOND SUBMISSION	APR 24/23
3	ISSUED FOR FIRST SUBMISSION	JUN 30/22
2	ISSUED FOR CLIENT REVIEW	JUN 10/22
1	ISSUED FOR CLIENT REVIEW	MAY 16/22

Revision
City Approval Stamp



NAK design strategies
 1285 WELLINGTON STREET WEST, OTTAWA, ON K1Y 3A8 CANADA
 T 613.237.2345 F 613.237.6423 OTTAWA@NAK-DESIGN.COM



Project

BARRHAVEN TOWN CENTRE

Title
DETAILS

Date	JUNE 2022	Sheet	
Scale	N.T.S.		
Drawn	TY		
Checked	MK		
Job No.	21-195		

D-02