

SPECIFICATIONS FOR TREE PLANTING
(Development & Environmental Engineering, Dec. 2015)

SPECIES AND STANDARDS OF TREES

Final tree species choice is to be approved by Development Engineering Urban Forestry. Species and cultivars of trees, as well as the standard for that species and cultivar are to comply with the Canadian Standards for Nursery Stock, Canadian Nursery Landscape Association, as revised.

ORIGIN

Information concerning the geographical origin of seed or cuttings used to produce the trees used in this contract shall be made available to Development Engineering Urban Forestry on demand. If the plant material is of an origin unsuitable climatically to the Oakville area in the opinion of Dev. Eng. Urban Forestry, it will be refused. **Nursery planting stock must be located in either Halton, Peel, York Region or Hamilton Wentworth County.**

FORM AND VIGOUR OF TREES

All trees shall be true to type, structurally sound with no evidence of dead branches, sunscald, frost cracks, abraded or broken bark and be free of insect or disease infestation. All trees shall have full, well developed crowns with **one distinctive vertical leader**, and root system typical of the species. All parts shall be moist and show active green cambium when cut. All trees must meet these specifications at the time of planting. The project Arborist or Landscape Architect is to confirm compliance with the standards.

Development & Environmental Engineering is to inspect all proposed trees for planting at the nursery prior to delivery to the site. This inspection should be carried done jointly with the project Landscape Architect.

CONFORMITY TO SPECIES AND VARIETY

All trees shall conform to species and/or variety named in the species list. No substitutions will be accepted unless approved by Development Engineering Urban Forestry.

SIZE OF TREES

Unless otherwise stated by Development Engineering Urban Forestry all deciduous trees planted shall be 300 cm - 350 cm (9'8 and 11'5) in overall height, and at least 60 mm in caliper. All 300 cm trees must have a minimum of 185 cm of clear stem, measured from the ground, unless approved by Development Engineering Urban Forestry.

SHIPPING OF TREES

Trees must be transported to the planting site in a manner that will minimize damage to crowns, boles or roots. Balled and burlapped (B/B) trees must have no cracks in the ball to be accepted. Trees, whether balled or burlapped, must have their root systems in a moist state at all times.

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TEMPORARY STORAGE

If conditions preclude immediate use of tree stock, balled and burlapped trees shall be stored in a sheltered spot protected from sun and wind. The root balls shall be kept in a moist state at all times by watering as required.

PLANTING and TREE SPECIES LOCATIONS

Residential Street Trees

All street tree planting locations must conform to the approved Street Tree Planting Plan and any deviation to the plan must be approved by Development Engineering Urban Forestry.

Commercial Street Trees

Street tree planting locations shall be installed as per either the approved Landscaping Plan or Street Tree Planting Plan that forms part of the development project and any change from the plan must be approved by Development Engineering Urban Forestry.

Tree Species Mix Configuration

Tree groupings are not to exceed 3 of any one species type in a row on one side of the road, and no more than 4 trees in total for groupings that are divided with the opposite side of the road.

BACKFILLING

Backfilling* is to be placed in layers approximately 15 cm in depth and firmly tamped in place in such a manner that the tree retains its vertical position without support. Particular care is to be taken to ensure that no air pockets remain under or around roots and that damage does not occur to the root system. The fill shall be thoroughly watered immediately after planting. Backfilled soil is to be placed to bring the top level of the root ball 7.6 cm higher than the existing surrounding grade to allow for settling.

At grade, a ridge of soil located at the edge of the planting hole shall be formed to a height of 9 cm, to act as a catch basin for any subsequent watering's and to retain mulch.

Balled and burlapped trees shall have the burlap cut and removed to approximately one-half the root ball height to prevent the burlap from acting as a wick thereby drying out the ball. All ropes used to contain the root ball shall be cut unless made of 100% natural fabric that will decay. For root balls encased in wire baskets the entire wire basket must be cut and removed prior to the backfilling phase.

PRUNING

The crown of the tree shall be pruned from the bottom up at the time of planting to remove all dead and damaged branches. **The terminal or leader is not to be pruned unless broken.** All cuts shall be made using approved standards and Guidelines for pruning set out by the ANSI A300 pruning standards (2001 Edition), and the Illustrated Guide to Pruning, 2nd Edition (2002 ISA).

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leaving no stubs. On all cuts over 2 cm in diameter and bruises or scars on the bark, the injured cambium shall be traced back to living tissue and removed. Wounds shall be smoothed and shaped so as not to retain water. Large wounds produced by any means other than branch pruning may render the tree unacceptable, requiring replacement subject to the directions of Development Engineering Urban Forestry.

STAKING

All balled and burlapped trees shall, immediately after planting, be supported by two wooden stakes driven outside the ball in line with the direction of the prevailing wind (west-east).

For this type of tree, B/B, the stakes are to be driven at least 70 cm below grade line. The stakes must be driven deep enough that there is at least 5 cm between the top of the stakes and the first branch. Stake placement shall be such that no main roots are severed by the stake being driven into the ground. Metal stakes are prohibited.

MULCHING

The following specification will be applied: non shredded woodchips measuring between 2.5 cm and 5.0 cm in width and placed to a depth of between 5.0 cm to 7.5 cm spread the following distance from the root collar:

DBH (cm)	average radius from root collar (m)
0 to 10	1.8
11 to 40	2.4

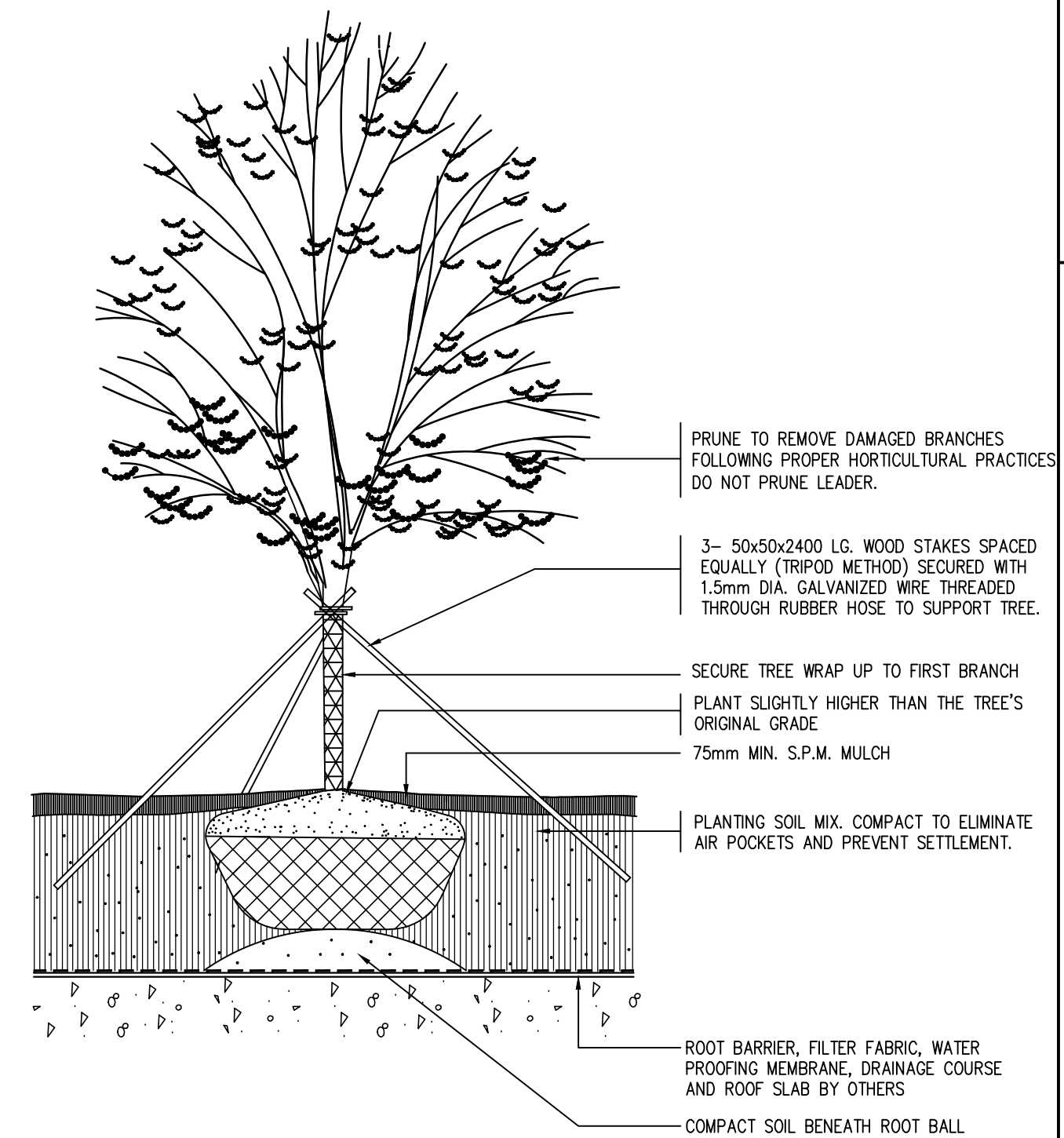
Woodchips are not to be in contact with the tree trunk and must be applied no later than 48 hours after planting.

All plantings shall be inspected by the project Arborist or Landscape Architect for compliance. Plantings which do not meet the specifications listed above, or which need straightening or correction as to settling, will not be accepted by the town until such problems are corrected.

MINIMUM ROOT BALL DIAMETER

The minimum acceptable root ball diameter for balled and burlapped trees shall be:
70 cm for 60 mm caliper trees
85 cm for 75 mm caliper trees
100 cm for 100 mm caliper trees
65 cm for 150 cm tall conifer stock

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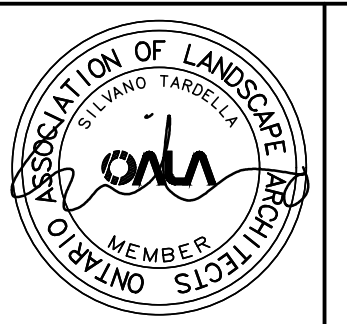
KEY MAP

LEGEND

REVISIONS

No.	Description	Date
1	Issued for SPA Approval	Nov 2024

CITY APPROVAL STAMP



NAK
design strategies

421 RONCESVALLES AVENUE, TORONTO, ON M6R 2N1 CANADA
T 416.340.8700 F 416.340.7100 NAKDESIGNSTRATEGIES.COM

PROJECT
BLOCK 15, OAK PARK BLVD
Oakville, Ontario

OWNER
BALLANTRY HOMES

TITLE
LANDSCAPE DETAILS

DATE: Sept 2024
SCALE: AS SHOWN
DRAWN: NH
CHECKED: NH
JOB NO.: 24-224

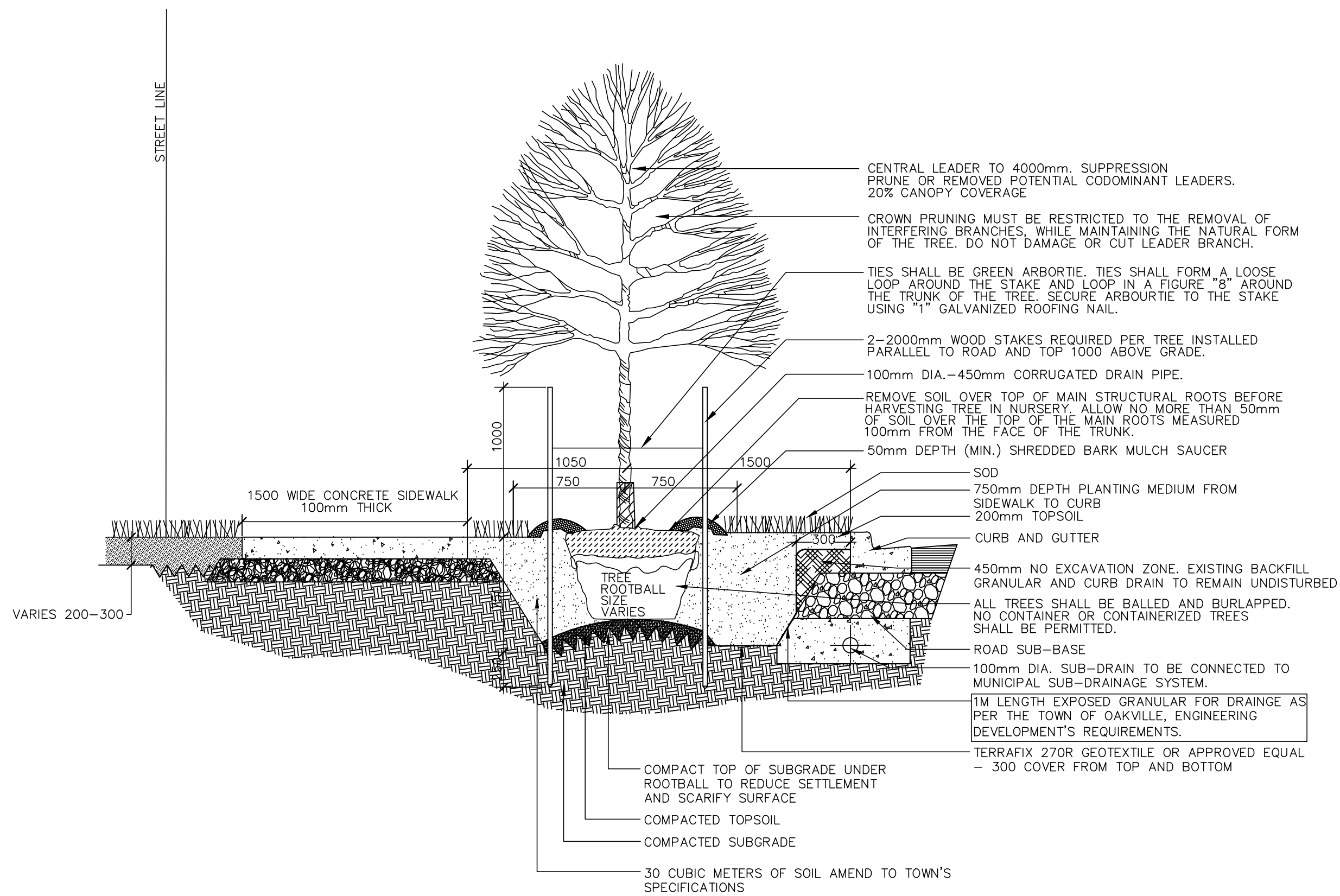
SHEET
D1

1 TREE PLANTING SPECIFICATIONS

N.T.S.

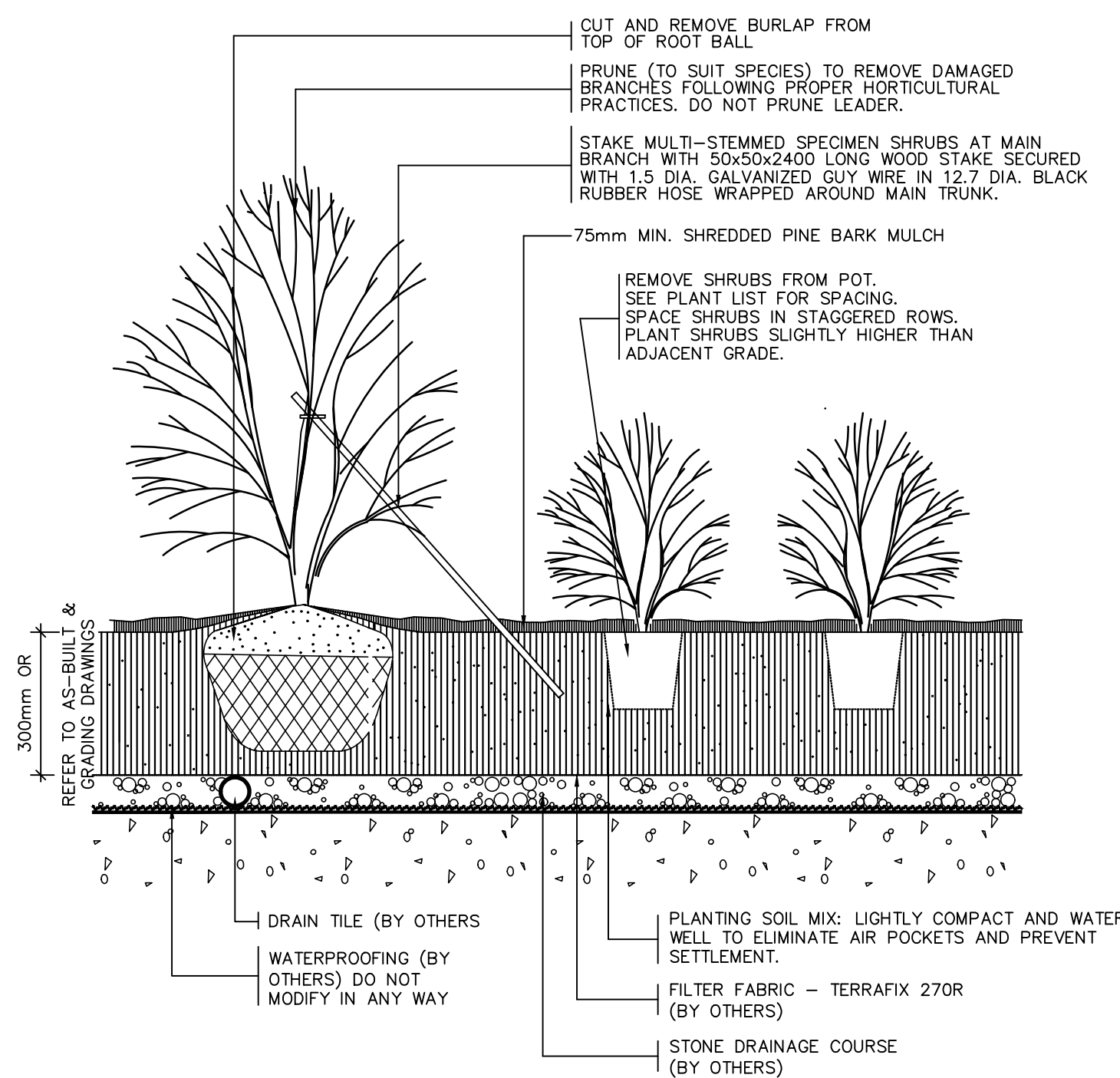
1 DECIDUOUS TREE PLANTING ON SLAB

N.T.S.



3 SHRUB PLANTING ON SLAB

N.T.S.



N.T.S.

4 PERENNIAL PLANTING ON SLAB

N.T.S.

2 DECIDUOUS TREE PLANTING IN BOULEVARD

N.T.S.

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KEY MAP

LEGEND

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451 KINGSWAY AVENUE, TORONTO, ON M8R 2N1 CANADA
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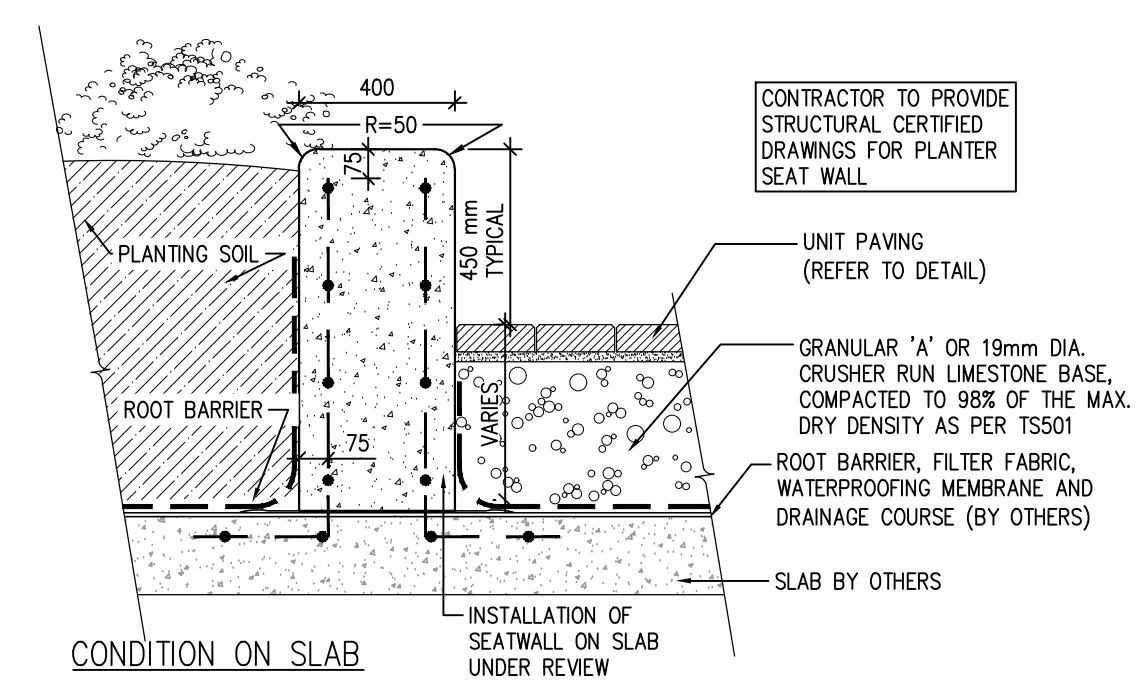
PROJECT
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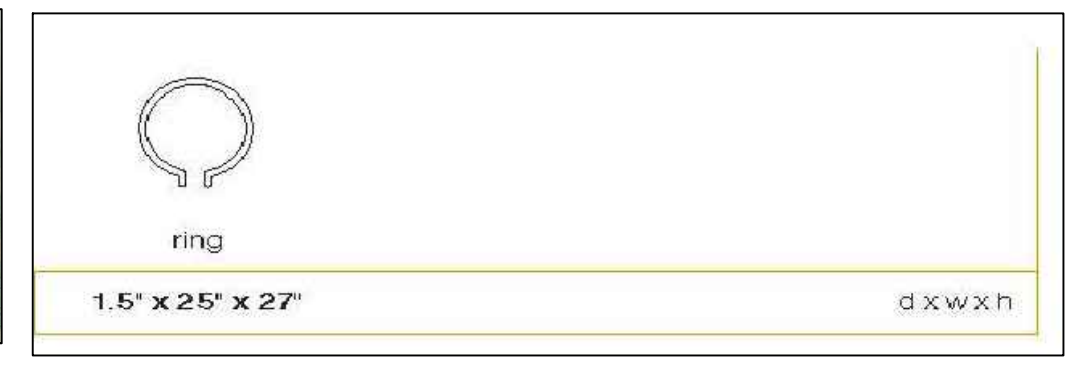
TITLE
LANDSCAPE DETAILS

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JOB NO.: 24-224

SHEET
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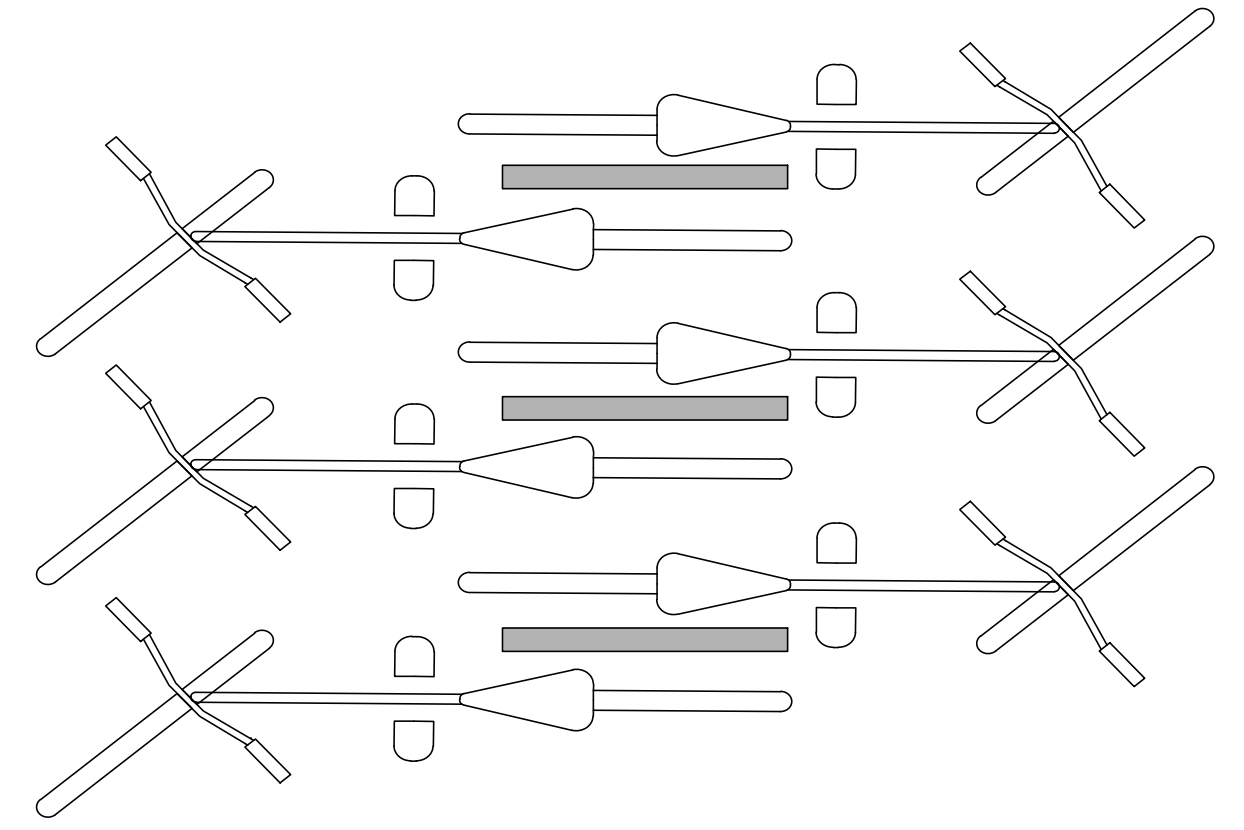


1 PLANTER SEAT WALL N.T.S.

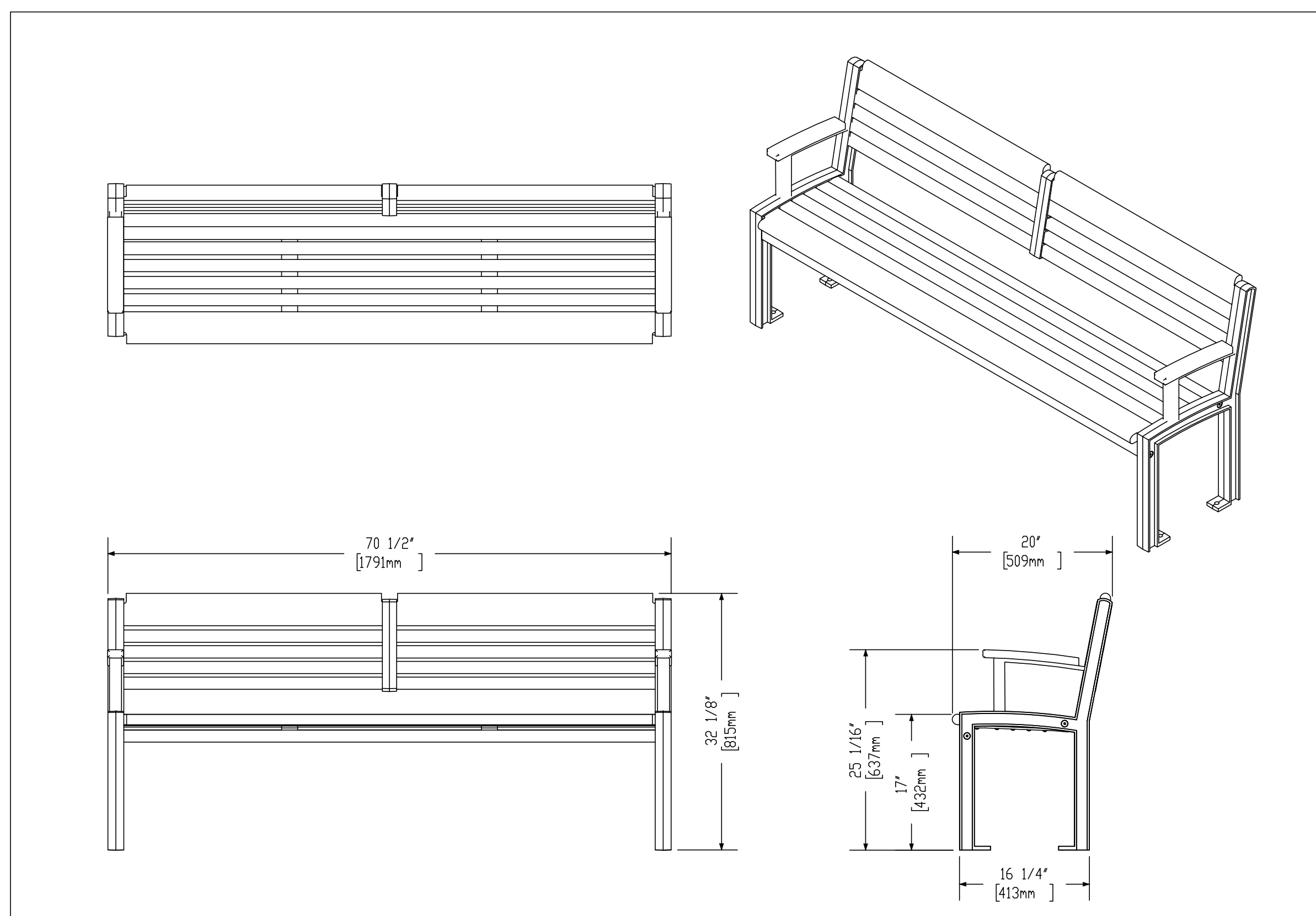


INSTALLATION
TO BE EMBEDDED FOR INSTALLATION AND AS PER MANUFACTURER SPECIFICATIONS

Bola® and Ring®: Bike racks made of 1.5" o.d., .120" wall stainless steel tubing, with a #4 satin electropolish finish on bare stainless steel. Ring and Bola are also available in powdercoated steel. Both Ring and Bola must be embedded. Ring and Bola can secure two bicycles parked parallel to the rack. The bicycles can be headed in opposite directions, or in the same direction. The rack provides two-point contact to prevent the bicycle from tipping over. A standard D-shaped bike lock can secure both a wheel and the frame.

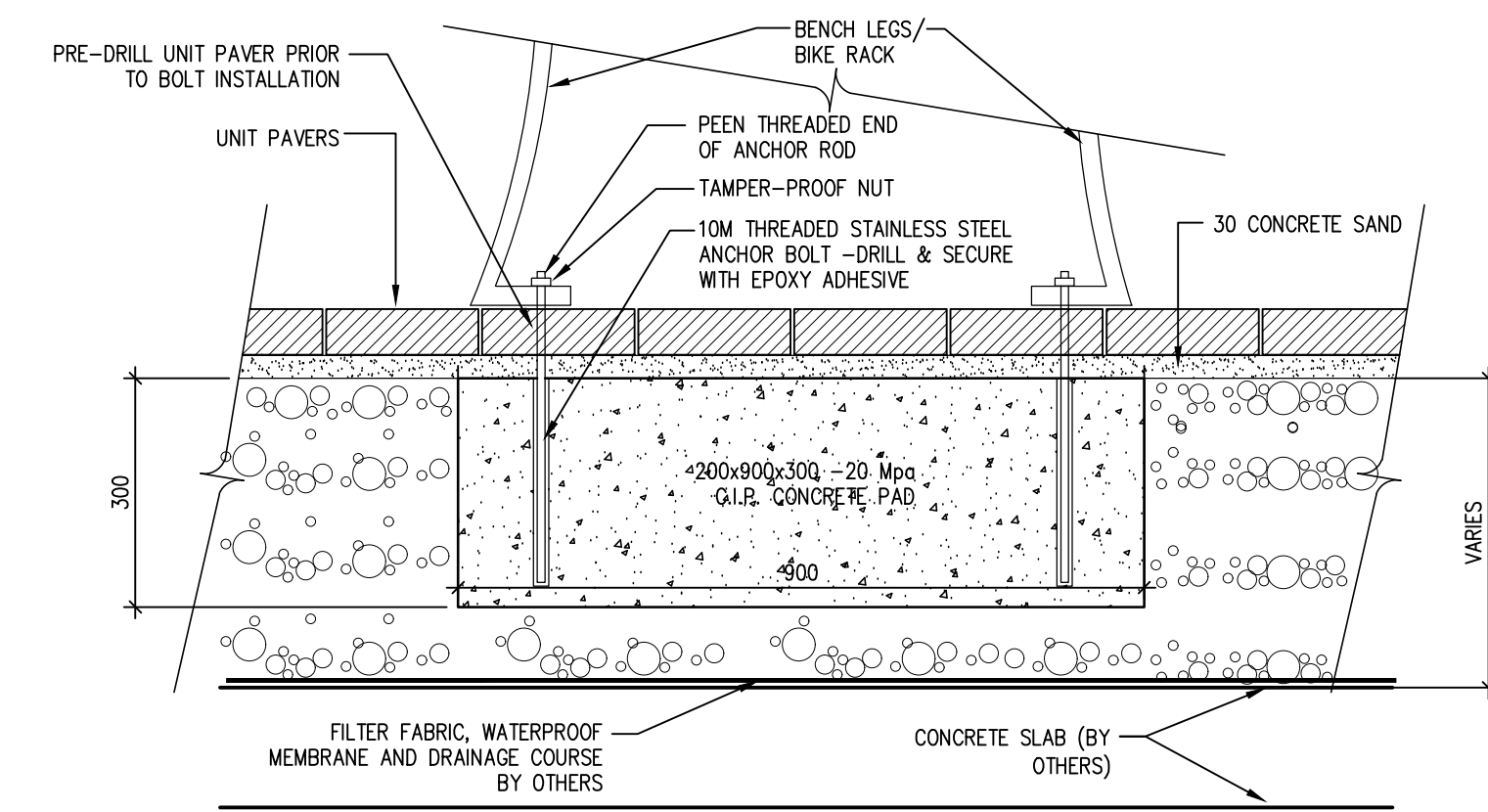


2 BIKE RACK - "RING" MODEL IN GROUPS OF 3 - BY LANDSCAPE FORMS N.T.S.

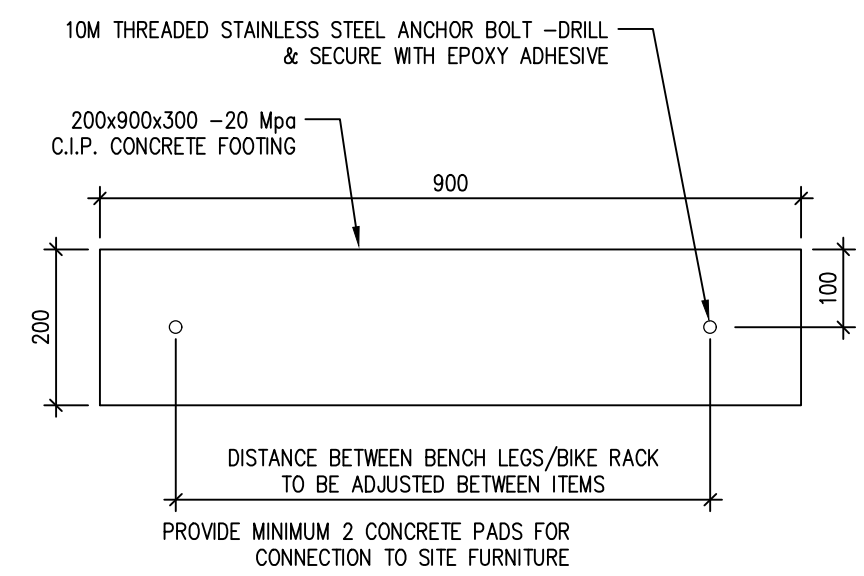


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3 MAGLIN MLB-720-W-A N.T.S.



SECTION

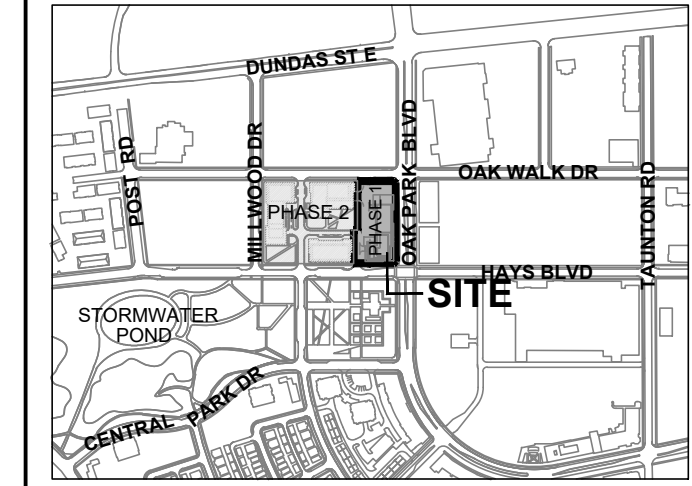


PLAN OF FOOTING

4 CONCRETE MOUNT FOR SITE FURNITURE UNDER UNIT PAVING N.T.S.

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KEY MAP



LEGEND

PLANTING

- Large Stature Deciduous Street Tree
- Deciduous Street Tree
- Shrubs
- Perennials/Grasses

PAVING & AMENITIES

- Concrete Sidewalk
- Concrete Unit Pavers Type A
- Infill Concrete Unit Paving Type B
- Accent Concrete Unit Pavers Type C
- Planter Seat Wall
- Benches

PLANTING KEY

- Tree Species (Symbol: Circle with 'X' and '00')
- Shrub Species (Symbol: Circle with 'X' and '00')
- Quantity (Symbol: Circle with '00')

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NAK design strategies
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PROJECT
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TITLE
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DATE: Sept 2024 **SHEET**
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BOULEVARD PLANT LIST

KEY QTY.	BOTANICAL NAME	COMMON NAME	CALIPER (mm)	HEIGHT (mm)	CONDITION	SPACING (mm)
DECIDUOUS TREES						
GB 3	QINQGO BILOBA	MAIDENHAIR TREE	60	WB	AS SHOWN	
OV 3	OSTRYA VIRGINIANA	IRONWOOD	60	WB	AS SHOWN	
TC 6	TILIA CORDATA	LITTLELEAF LINDEN	60	WB	AS SHOWN	
ZS 3	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	60	WB	AS SHOWN	

ON SITE PLANT LIST

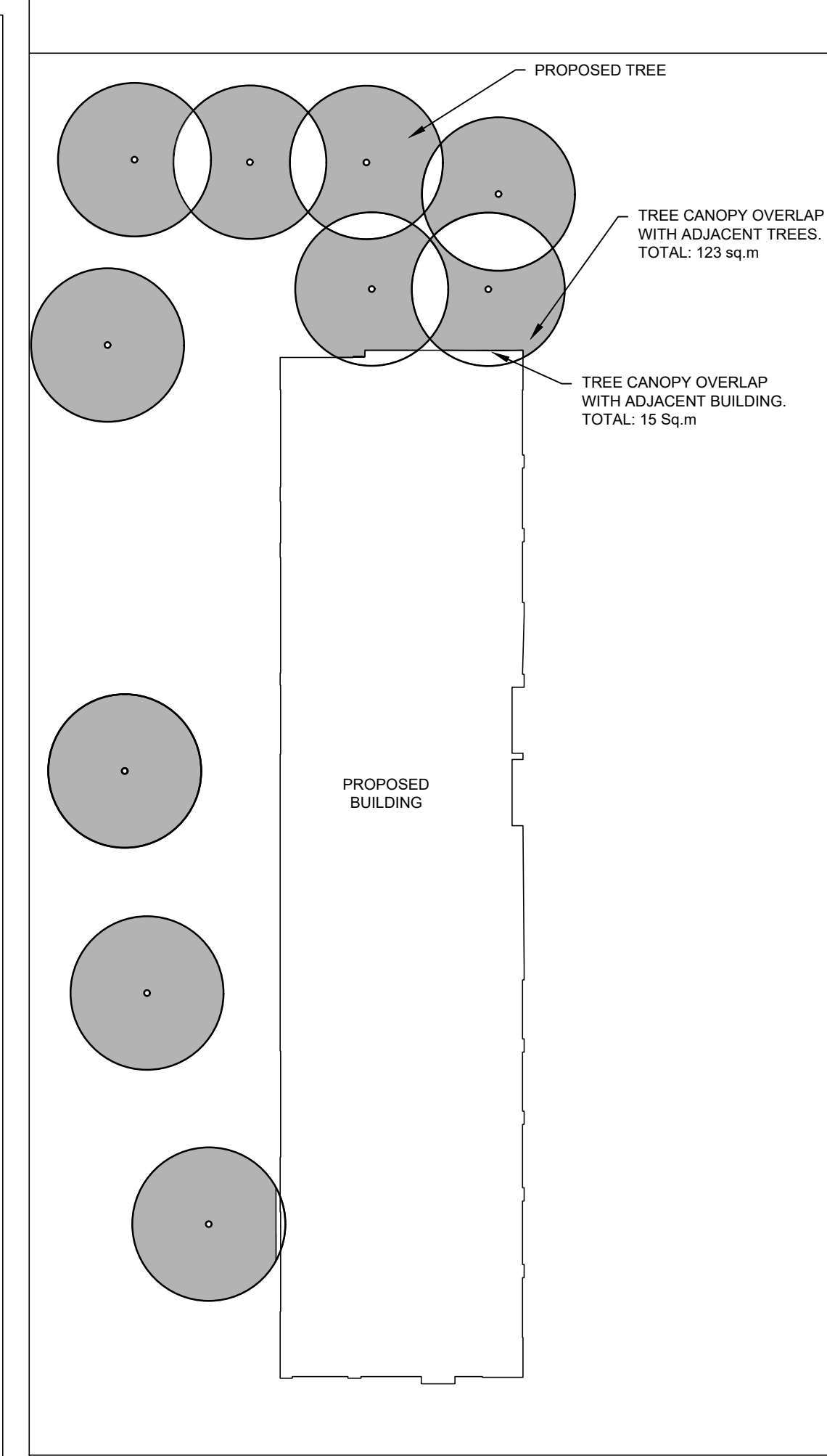
KEY QTY.	BOTANICAL NAME	COMMON NAME	CALIPER (mm)	HEIGHT (mm)	CONDITION	SPACING (mm)
DECIDUOUS TREES						
CO 3	CELTIS OCCIDENTALIS	HACKBERRY	60	WB	AS SHOWN	
AR 3	ACER RUBRUM 'FRANKSRED'	RED SUNSET MAPLE	60	WB	AS SHOWN	
OV 2	OSTRYA VIRGINIANA	IRONWOOD	60	WB	AS SHOWN	
UA 2	ULMAS 'MORTEN' ACCOLADE	ACCOLADE ELM	60	WB	AS SHOWN	

SHRUBS

Ps 145	POTETILLA SIMPLEX	COMMON ONQUEFOIL	600	POTTED	AS SHOWN	
Rr 60	ROSA RUGOSA	SHRUB ROSE	600	POTTED	AS SHOWN	
Sj 50	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	600	POTTED	AS SHOWN	
Jh 90	JUNIPERUS HORIZONTALIS	CREeping JUNIPER	600	POTTED	AS SHOWN	

PERENNIALS

cl 175	COREOPSIS LANCEOLATA	LANCE-LEAVED TICKSEED	1 GAL. POT	AS SHOWN	
hs 130	HEMEROCALLIS 'STELLA D'ORO'	'STELLA D'ORO' DAYLILY	1 GAL. POT	AS SHOWN	
rh 65	RUBECODIA HIRTA	BLACK EYED SUSAN	1 GAL. POT	AS SHOWN	



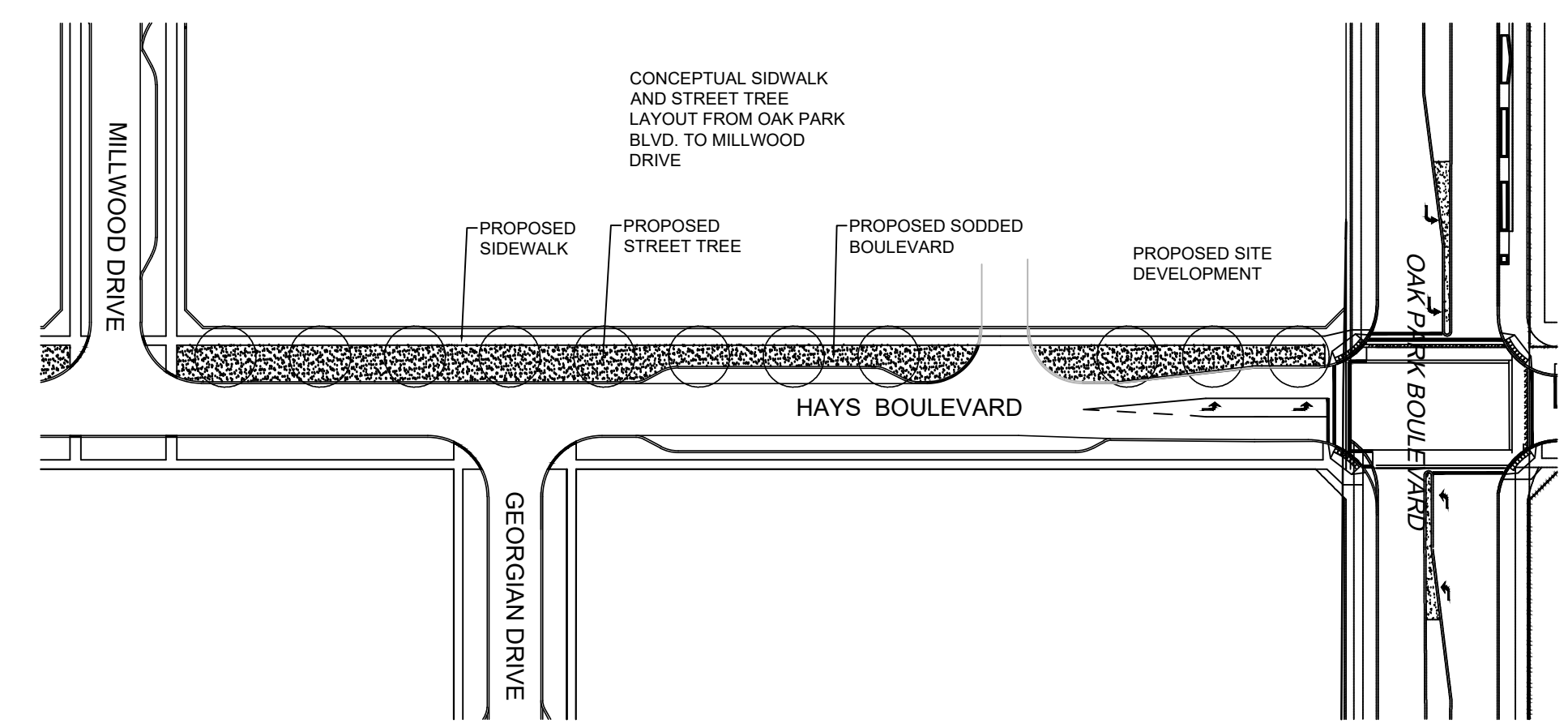
CANOPY COVERAGE PLAN

N.T.S.

REFER TO ENGINEERING DRAWINGS FOR GRADING, SERVICING AND UTILITY INFORMATION.
 SITE CONDITIONS, SERVICES AND UTILITIES MAY DICTATE THAT PLANTING LOCATIONS MAY BE ADJUSTED ON SITE.
 PLANTING SPECIES MAY BE SUBSTITUTED AT TIME OF PLANTING, SUBJECT TO SPECIES AVAILABILITY AND CITY APPROVAL.
 REFER TO SITE PLAN FOR DETAILED ARCHITECTURAL INFORMATION AND ALL CURB DEPRESSIONS.
 REFER TO SITE LIGHTING DRAWINGS BY SMITH + ANDERSEN FOR ALL SITE LIGHTINGS

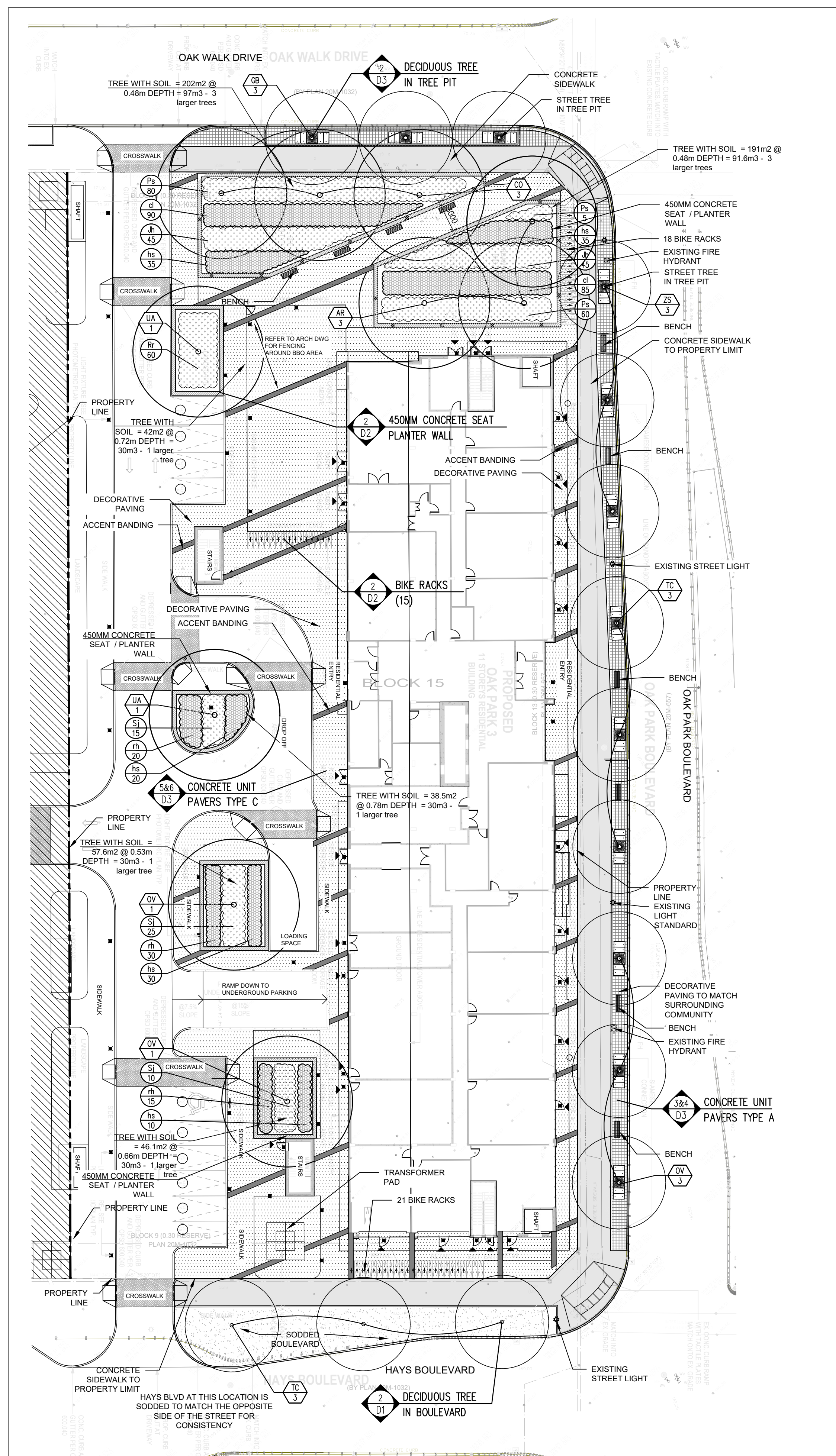
TREES / CANOPY CALCULATION CHART

Size/Remarks	PHASE 1 SITE PLAN			
	Crown # of Trees	Area per tree (m2)	Canopy Area Sub-total (m2)	% of Total Canopy Area
PHASE 1 Medium Stature Trees (10-13m spread)	0	78.5	0	0.0%
Large Stature Trees (14+ m spread)				
CO Celtis occidentalis	3	154.0	462	30.0%
AR Acer Rubrum 'Franksred'	3	154.0	462	30.0%
OV Ostrya Virginiana	2	154.0	308	20.0%
UA Ulmus 'Morten' Accolade	2	154.0	308	20.0%
Small Stature Trees (3-9m spread)				
TOTAL	10		1,540	
CANOPY COVERAGE				
TOTAL	10		1,540	m ²
EXCLUDING CANOPY OVERLAP			138	m ²
TOTAL			1,402	m ²
Canopy Summary				
		Site Area	6,368	m ²
		Site Canopy Cover	22.0%	
		Land Use Canopy Cover Target	20%	



CONCEPTUAL HAYS BLVD TREATMENT

N.T.S.



LANDSCAPE PLAN

1:300