
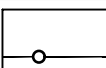
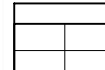

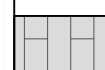
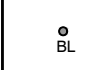


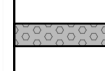
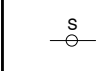

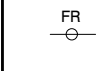

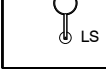
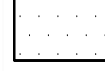
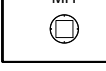

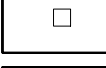

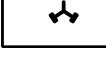

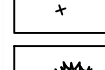
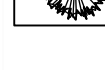
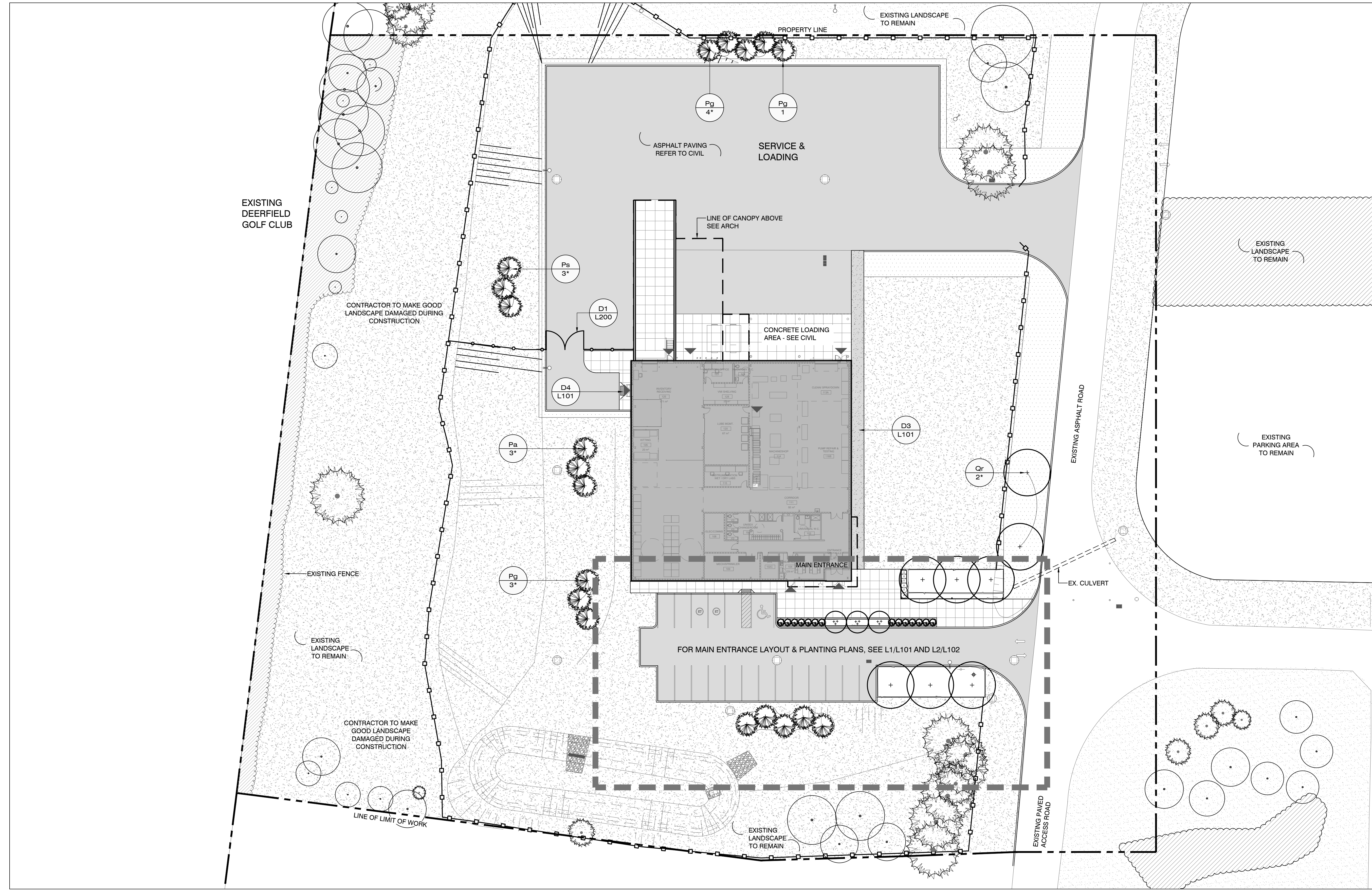


Legend:

	PROPERTY LINE		CHAIN LINK FENCE 1800mm HT
	CONCRETE PAVING		FIRE HYDRANT SEE CIVIL
	900x300 UNIT PAVING BY TECHOBLOC		BOLLARD LIGHT SEE ELECT.
	ACCESSIBLE LIMESTONE SCREENINGS		EV CHARGING PEDESTAL SEE ELECT.
	TACTILE ATTENTION INDICATOR		SIGNAGE SEE ARCH
	EXISTING LAWN		FIRE ROUTE SIGNAGE SEE ARCH
	LOW MOW MEADOW		LIGHT STANDARD SEE ELECT.
	NEW SOD		MANHOLE SEE CIVIL
	EXISTING DECIDUOUS TREE TO REMAIN		CATCH BASIN SEE CIVIL
	EXISTING CONIFEROUS TREE TO REMAIN		SIAMESE CONNECTION SEE CIVIL
	EXISTING VEGETATION TO REMAIN	NOTE: ALL EXTERIOR LIGHTING DEVICES SHALL BE FULL CUT-OFF TO DIRECT ILLUMINATION DOWNWARD, DARK SKY COMPLIANT TO REDUCE LIGHT POLLUTION AND SKYGLARE, AND SHALL BE MITIGATED AT THE SOURCE SO THAT NO LIGHT (0.0) WILL BE DIRECTLY PROJECTED ONTO ADJACENT PROPERTIES. REFER TO ELECTRICAL FOR LIGHTING PLAN.	
	DECIDUOUS TREE		
	CONIFEROUS TREE		

Issued For:

No.	Description	Date
5	Issued for SPA	2023-03-22
4	Issued for VE submission	2022-11-14
3	Issued for Site Plan Approval	2022-08-12
2	Issued for Class 'C' Costing	2022-06-16
1	Issued for Coordination	2022-05-25



**LIST OF LANDSCAPE ARCHITECTURAL DRAWINGS:**

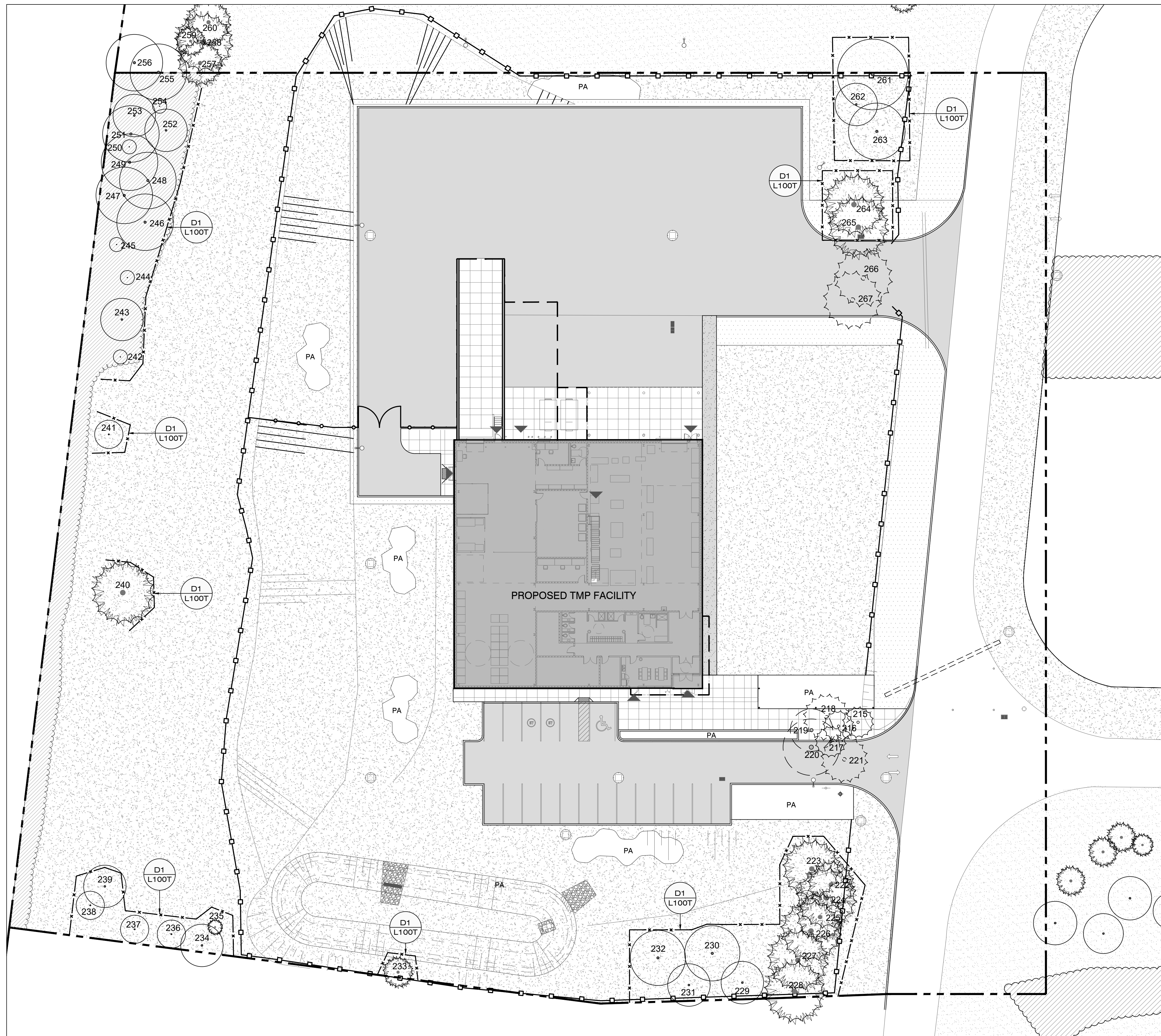
L100	OVERALL LANDSCAPE PLAN & KEYPLAN	SCALE: 1:300
L100T	TREE INVENTORY, PRESERVATION AND REMOVALS PLAN	SCALE: 1:300
L101	MAIN ENTRANCE LAYOUT PLAN AND DETAILS	SCALE AS NOTED
L102	MAIN ENTRANCE PLANTING PLAN AND DETAILS	SCALE AS NOTED
L103	TREE CANOPY COVER AND CALCULATION PLAN	SCALE 1:300
L200	LANDSCAPE DETAILS	SCALE AS NOTED

**OVERALL SITE PLANT LIST**

Key	Qty.	Botanical Name	Common Name	Cal.	Sprd.	Hgt.	Root	Remarks
<b>TREES</b>								
Pg	3	Picea Abies	Norway Spruce			2000	B&B	
Pg	8	Picea glauca	White Spruce			2000	B&B	Native / Drought Tolerant
Ps	3	Picea strobus	Eastern White Pine			2000	B&B	Native
Qr	2	Quercus rubra	Red Oak	70			B&B	Native / Salt Tolerant

NOTE:  
 1. \*\* Denotes new trees planted as compensatory trees for the ones being removed. 26 out of 27 new trees are compensatory trees. For species refer to plant list. For locations refer to L100 and L102.  
 2. 22 of the compensatory trees are part of the tree canopy cover contribution. For locations refer to L103.





L1 TREE INVENTORY, PRESERVATION AND REMOVALS PLAN  
L100T PLAN VIEW

SCALE 1:300

**SCHEDULE 1  
TREE PROTECTION BARRIER**

OAKVILLE

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, waferboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic web snow fencing on a wood frame made of 2"x 4"s.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

D1 TREE PROTECTION HOARDING DETAIL  
L100T OAKVILLE CITY STANDARD N.T.S.

**TREE INVENTORY**

Tree ID	Common Name	Scientific Name	DBH (cm)	Effective DBH (cm)	Drip-line (m)	Condition			TPZ (m)	Proposed Action
						Structure	Vigour	Overall		
215	Blue Spruce	<i>Picea pungens</i>	18	18	2	G	G	G	2.4	Remove
216	Blue Spruce	<i>Picea pungens</i>	18	18	2	G	G	G	2.4	Remove
217	Blue Spruce	<i>Picea pungens</i>	19	19	2	G	F	F	2.4	Remove
218	Blue Spruce	<i>Picea pungens</i>	25	25	3	G	F	F	2.4	Remove
219	Norway Maple	<i>Acer platanoides</i>	26	26	3	G	G	G	2.4	Remove
220	Norway Maple	<i>Acer platanoides</i>	30	30	4	G	F	G	2.4	Remove
221	Blue Spruce	<i>Picea pungens</i>	27	27	3	G	G	G	2.4	Remove
222	Norway Spruce	<i>Picea abies</i>	21	21	3	G	G	G	2.4	Retain
223	Norway Spruce	<i>Picea abies</i>	21	21	4	G	G	G	2.4	Remove
224	Blue Spruce	<i>Picea pungens</i>	26	26	4	G	G	G	2.4	Retain
225	White Pine	<i>Pinus strobus</i>	27	27	3	G	G	G	2.4	Retain
226	White Pine	<i>Pinus strobus</i>	13,16	21	4	G	G	G	2.4	Retain
227	White Pine	<i>Pinus strobus</i>	22	22	4	G	G	G	2.4	Retain
228	White Pine	<i>Pinus strobus</i>	32	32	4	G	G	G	3.0	Retain
229	Trembling Aspen	<i>Populus tremuloides</i>	25,29	38	3	G	P	F	3.0	Retain
230	Trembling Aspen	<i>Populus tremuloides</i>	16,32,30	47	4	G	G	G	3.0	Retain
231	Trembling Aspen	<i>Populus tremuloides</i>	18,23,22	43	3	G	F	F	3.0	Retain
232	Trembling Aspen	<i>Populus tremuloides</i>	26,18	32	4	G	G	G	3.0	Retain
233	Blue Spruce	<i>Picea pungens</i>	14	14	2	G	G	G	2.4	Retain
234	Green Ash	<i>Fraxinus pennsylvanica</i>	14	14	3	G	G	G	2.4	Retain
235	Blue Spruce	<i>Picea pungens</i>	13	13	1	G	F	F	2.4	Retain
236	Green Ash	<i>Fraxinus pennsylvanica</i>	15,12	19	2	F	F	P	2.4	Retain
237	Green Ash	<i>Fraxinus pennsylvanica</i>	12	12	2	F	F	F	2.4	Retain
238	Green Ash	<i>Fraxinus pennsylvanica</i>	10	10	2	P	P	P	2.4	Retain
239	Green Ash	<i>Fraxinus pennsylvanica</i>	16	16	3	F	G	G	2.4	Retain
240	White Spruce	<i>Picea glauca</i>	18	18	4	G	G	G	2.4	Retain
241	Bur Oak	<i>Quercus macrocarpa</i>	10	10	2	G	G	G	2.4	Retain
242	Green Ash	<i>Fraxinus pennsylvanica</i>	26,26,24	44	1	P	VP	VP	3.0	Retain
243	Red Oak	<i>Quercus rubra</i>	10	10	3	G	G	G	2.4	Retain
244	Green Ash	<i>Fraxinus pennsylvanica</i>	16,8	18	1	VP	VP	VP	2.4	Retain
245	Green Ash	<i>Fraxinus pennsylvanica</i>	30	30	0	D	D	D	2.4	Retain
246	Red Oak	<i>Quercus rubra</i>	24	24	4	G	G	G	2.4	Retain
247	Bur Oak	<i>Quercus macrocarpa</i>	17	17	4	G	G	G	2.4	Retain
248	Bur Oak	<i>Quercus macrocarpa</i>	26,21	33	4	G	G	G	3.0	Retain
249	Bur Oak	<i>Quercus macrocarpa</i>	45	45	4	G	F	F	3.0	Retain
250	Bur Oak	<i>Quercus macrocarpa</i>	20	20	0	D	D	D	2.4	Retain
251	Bur Oak	<i>Quercus macrocarpa</i>	21	21	4	F	F	F	2.4	Retain
252	Red Oak	<i>Quercus rubra</i>	24,24	34	3	G	G	G	3.0	Retain
253	Bur Oak	<i>Quercus macrocarpa</i>	24	24	3	G	G	G	2.4	Retain
254	Bur Oak	<i>Quercus macrocarpa</i>	32	32	0	D	D	D	3.0	Retain
255	Bur Oak	<i>Quercus macrocarpa</i>	26,15	30	4	F	G	F	2.4	Retain
256	Red Oak	<i>Quercus rubra</i>	40	40	4	G	G	G	3.0	Retain
257	White Pine	<i>Pinus strobus</i>	24	24	3	G	G	G	2.4	Retain
258	White Pine	<i>Pinus strobus</i>	23	23	4	G	G	G	2.4	Retain
259	White Pine	<i>Pinus strobus</i>	12	12	2	G	G	G	2.4	Retain
260	White Pine	<i>Pinus strobus</i>	24	24	3	G	G	G	2.4	Retain
261	Silver Maple	<i>Acer saccharinum</i>	28,26	38	5	G	G	G	3.0	Retain
262	Silver Maple	<i>Acer saccharinum</i>	28	28	3	G	G	G	2.4	Retain
263	Silver Maple	<i>Acer saccharinum</i>	24,26,14	39	4	G	G	G	3.0	Retain
264	Norway Spruce	<i>Picea abies</i>	32	32	4	G	G	G	3.0	Retain
265	Norway Spruce	<i>Picea abies</i>	25	25	4	G	G	G	2.4	Potential injury
266	Norway Spruce	<i>Picea abies</i>	22,22	31	4	G	G	G	3.0	Remove
267	Norway Spruce	<i>Picea abies</i>	26	26	4	G	G	G	2.4	Remove

REFER TO ARBORIST REPORT  
PREPARED BY PALMER  
ANGELA ZHOU  
74 Berkeley Street, Toronto, ON M5A 2W7  
Tel: 416-795-8153  
www.pncg.ca  
Dated: July 28, 2022

Project Name:  
**Halton WWTP  
Maint Facility**

Location:  
**2195 North Service Rd  
W, Oakville, ON**

Number:  
**2102**

Sheet Title:  
**TREE INVENTORY,  
PRESERVATION AND  
REMOVALS PLAN**

Scale: 1 : 300

Drawn: JJ / IW / RM / YC

Checked: VK / JJ

Date: 2023-03-22

**Legend:**

- PROPERTY LINE
- TREE PROTECTION HOARDING
- EXISTING DECIDUOUS TREE TO REMOVE
- EXISTING CONIFER TREE TO REMOVE
- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING CONIFER TREE TO REMAIN
- TREE NUMBER


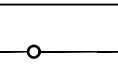
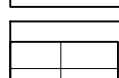
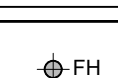

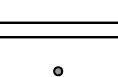

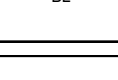


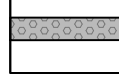
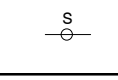

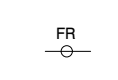
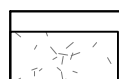
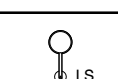
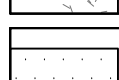


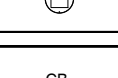

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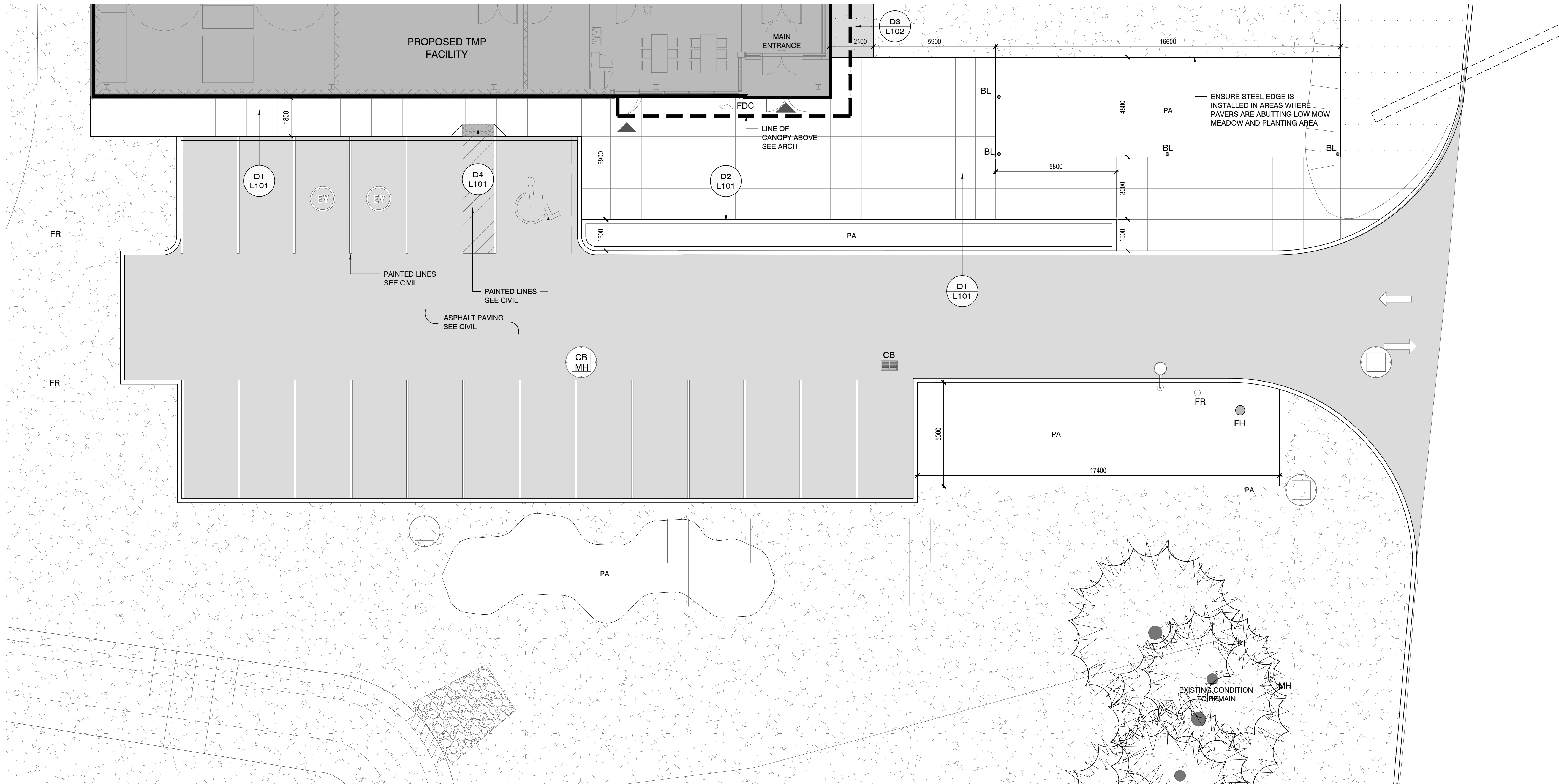
Issued For:

No.	Description	Date
5	Issued for SPA	2023-03-22
4	Issued for VE submission	2022-11-14
3	Issued for Site Plan Approval	2022-08-12
2	Issued for Class 'C' Costing	2022-06-16
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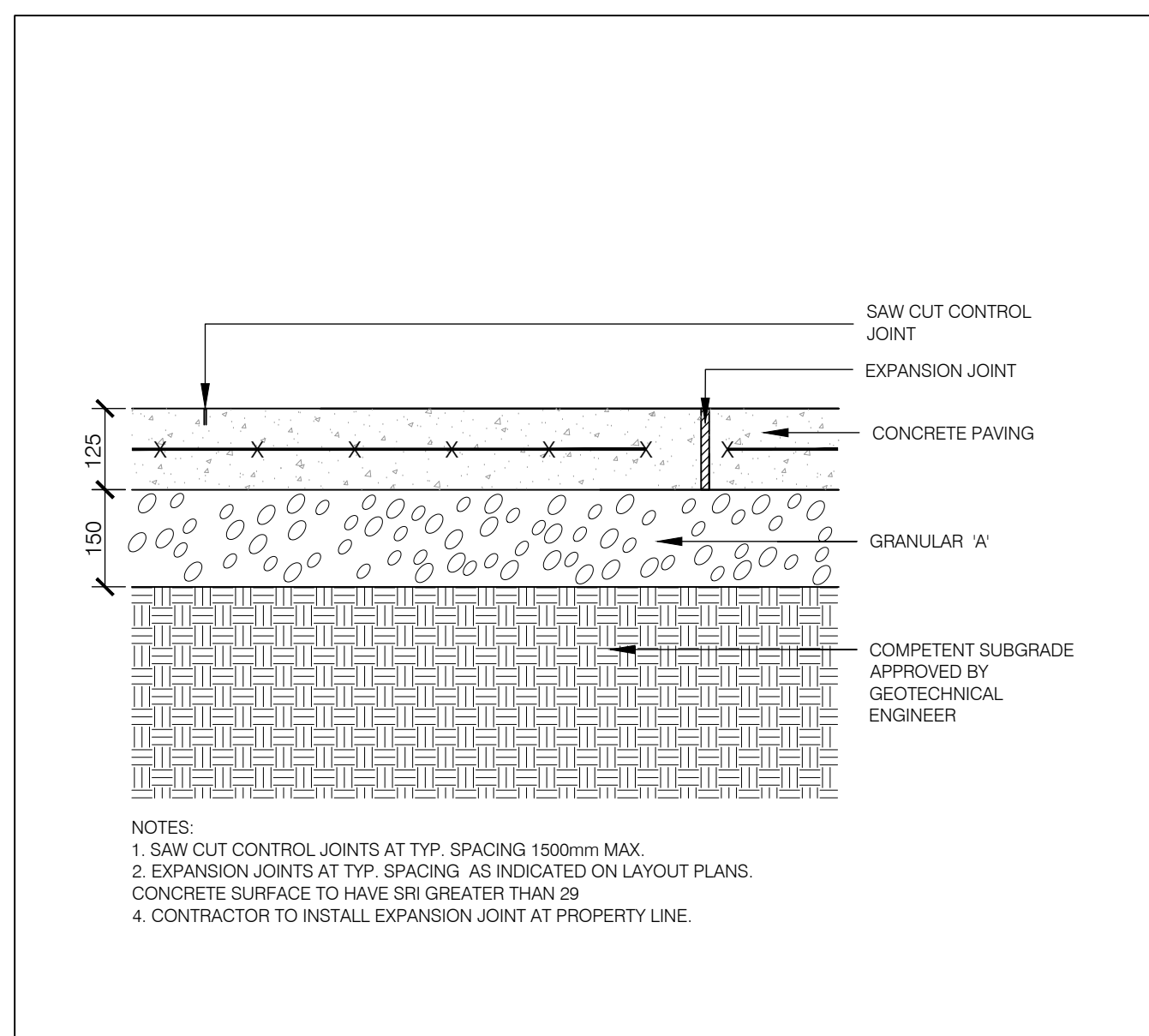
Legend:

	PROPERTY LINE		CHAIN LINK FENCE 1800mm HT
	CONCRETE PAVING		FIRE HYDRANT SEE CIVIL
	900x300 UNIT PAVING BY TECHOBLOC		BOLLARD LIGHT SEE ELECT.
	ACCESSIBLE LIMESTONE SCREENINGS		EV CHARGING PEDESTAL SEE ELECT.
	TACTILE ATTENTION INDICATOR		SIGNAGE SEE ARCH
	EXISTING LAWN		FIRE ROUTE SIGNAGE SEE ARCH
	LOW MOW MEADOW		LIGHT STANDARD SEE ELECT.
	NEW SOD		MANHOLE SEE CIVIL
	EXISTING DECIDUOUS TREE TO REMAIN		CATCH BASIN SEE CIVIL
	EXISTING CONIFEROUS TREE TO REMAIN		SIAMESE CONNECTION SEE CIVIL
	EXISTING VEGETATION TO REMAIN		



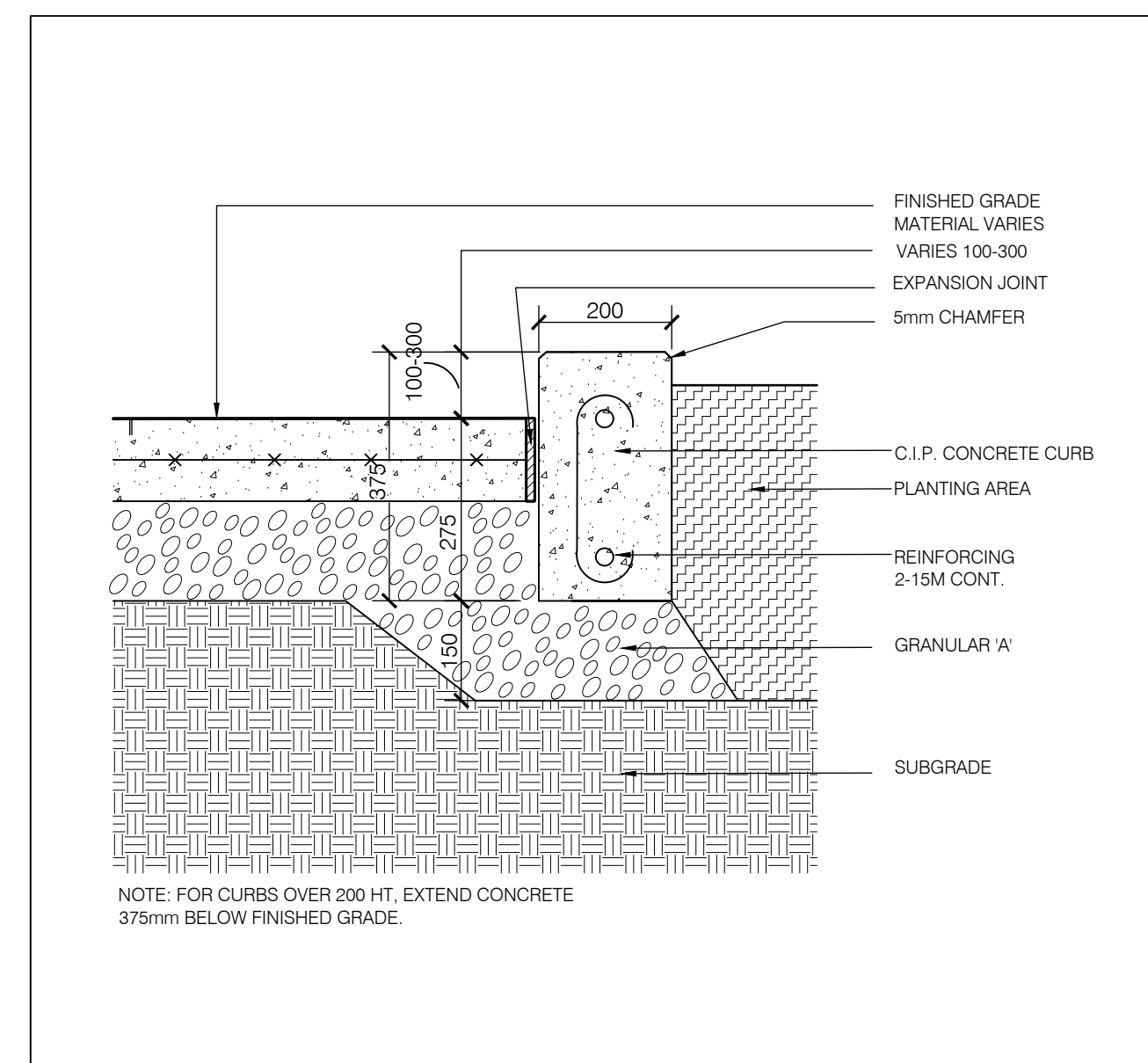
L1 MAIN ENTRANCE LAYOUT PLAN  
 L101 PLAN VIEW

SCALE 1:100



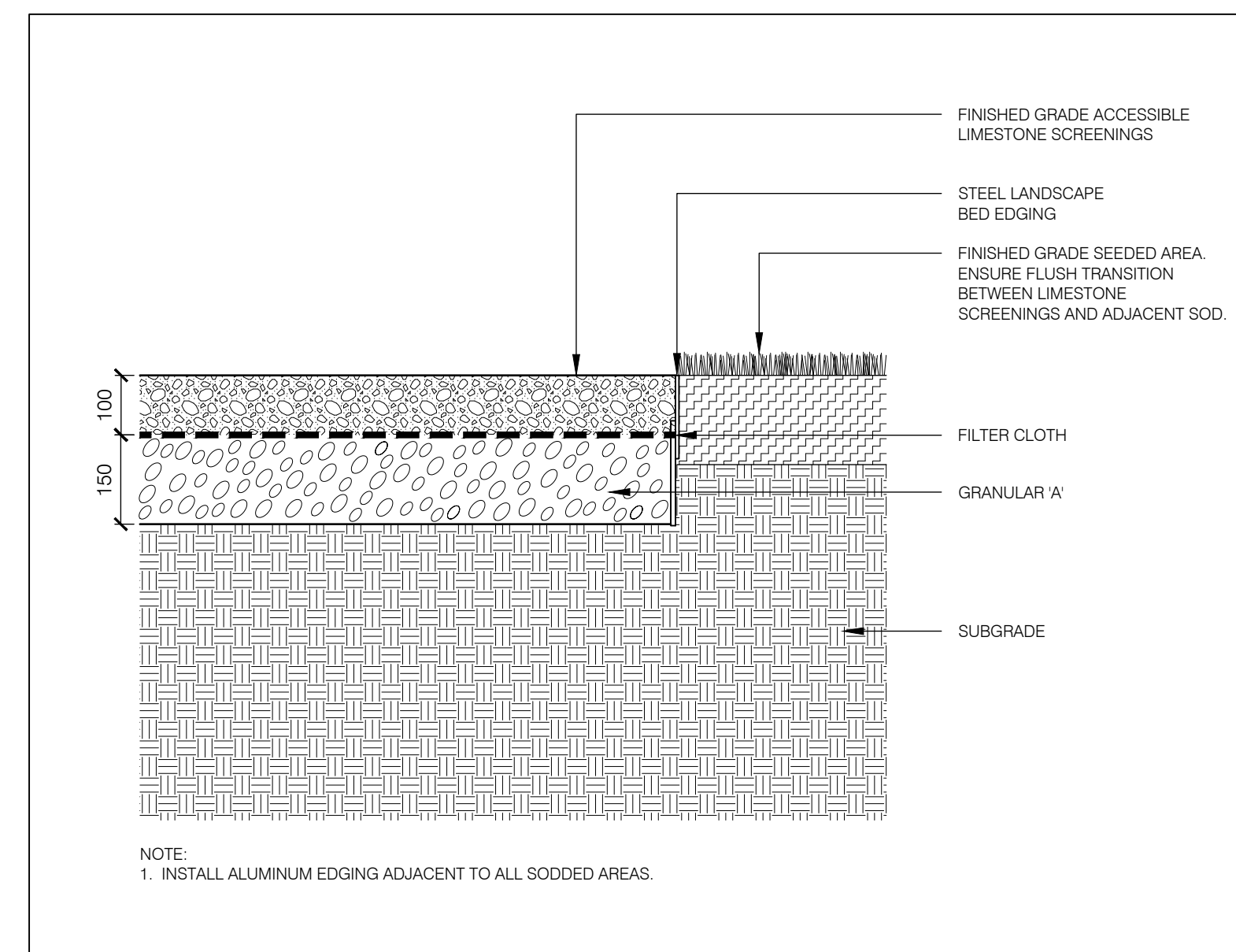
D1 TYPICAL CONCRETE PAVING  
 L101 SECTION

SCALE 1:10



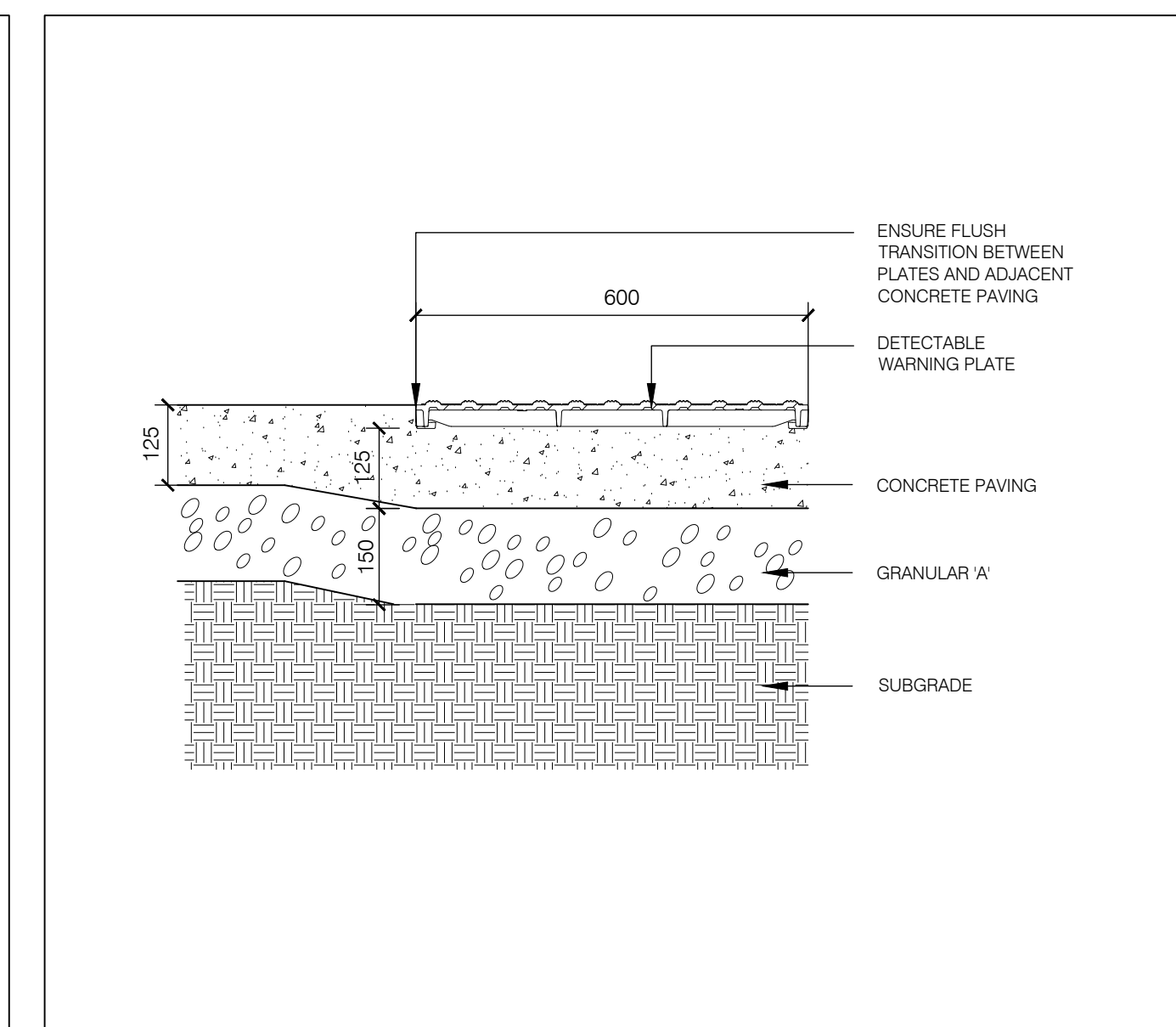
D2 TYPICAL CONCRETE PLANTER CURB  
 L10 SECTION

SCALE 1:10



D3 TYPICAL LIMESTONE SCREENING PATH  
 L101 SECTION

SCALE 1:10



D4 TYPICAL DETECTABLE WARNING PLATE  
 L101 SECTION

SCALE 1:10

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Project Name:  
**Halton WWTP Maint Facility**  
 Location:  
**2195 North Service Rd W, Oakville, ON**  
 Number:  
**2102**  
 Sheet Title:

**MAIN ENTRANCE PLANTING PLAN AND DETAILS**

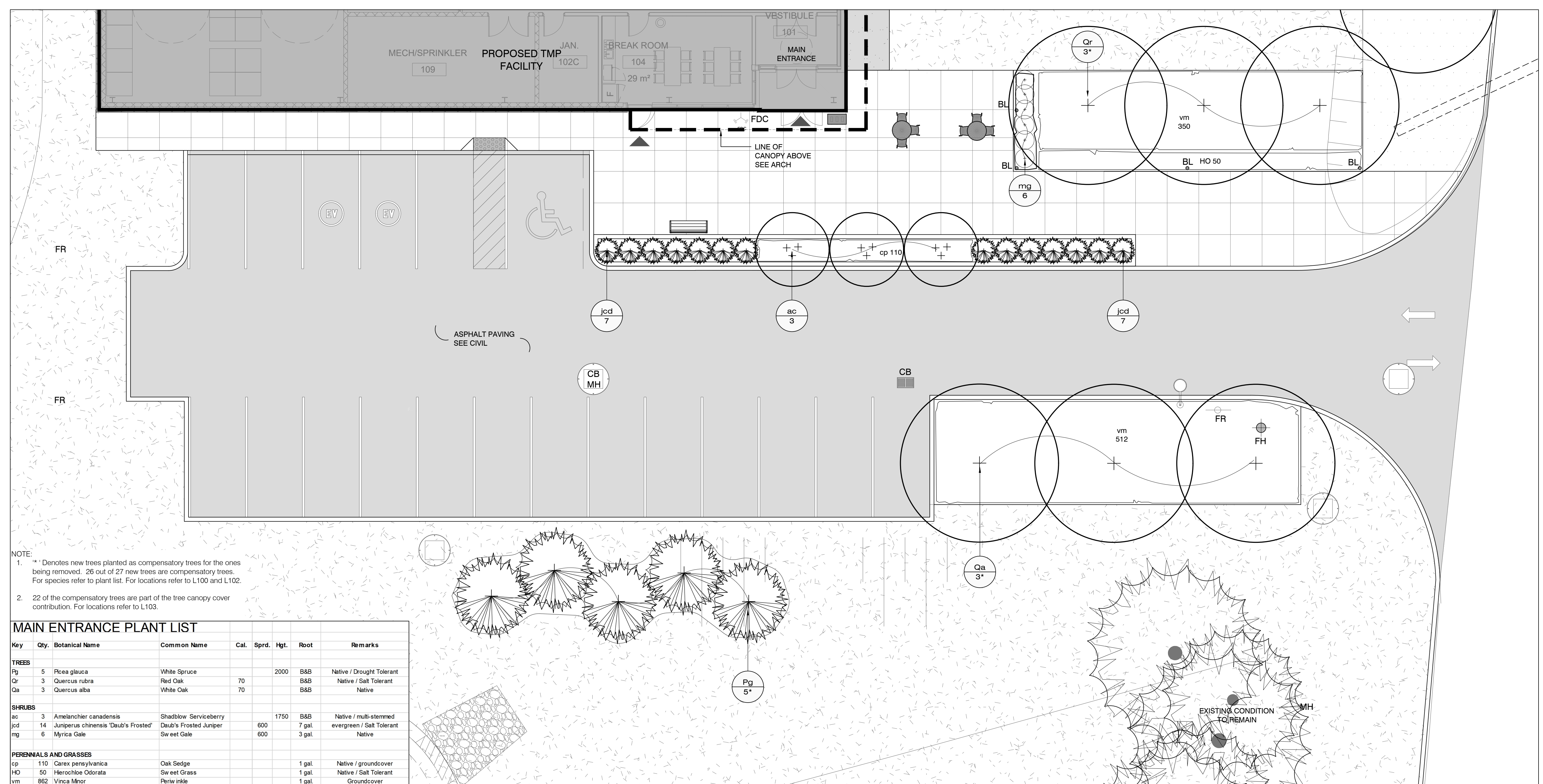
Scale: AS SHOWN  
 Drawn: JJ / IW / RM / YC  
 Checked: VK / JJ  
 Date: 2023-03-22

**Legend:**

	PROPERTY LINE		DECIDUOUS TREE
	CONCRETE PAVING		CONIFEROUS TREE
	900x300 UNIT PAVING BY TECHOBLOC		CONIFEROUS SHRUB
	ACCESSIBLE LIMESTONE SCREENINGS		DECIDUOUS SHRUB
	TACTILE ATTENTION INDICATOR		PERENNIALS, GRASSES AND GROUNDCOVERS
	CHAIN LINK FENCE		DINING TABLE AND CHAIRS
	EXISTING LAWN		BENCH
	LOW MOW MEADOW		WASTE RECEPTACLE
	NEW SOD		FIRE HYDRANT SEE CIVIL
	EXISTING DECIDUOUS TREE TO REMAIN		FIRE ROUTE SIGNAGE SEE ARCH
	EXISTING CONIFEROUS TREE TO REMAIN		LIGHT STANDARD SEE ELECT.
	EXISTING VEGETATION		MANHOLE SEE CIVIL
	BOLLARD LIGHT SEE ELECT.		CATCH BASIN SEE CIVIL
	EV CHARGING PEDESTAL SEE ELECT.		SIAMESE CONNECTION SEE CIVIL
	SIGNAGE SEE ARCH		

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No.	Description	Date
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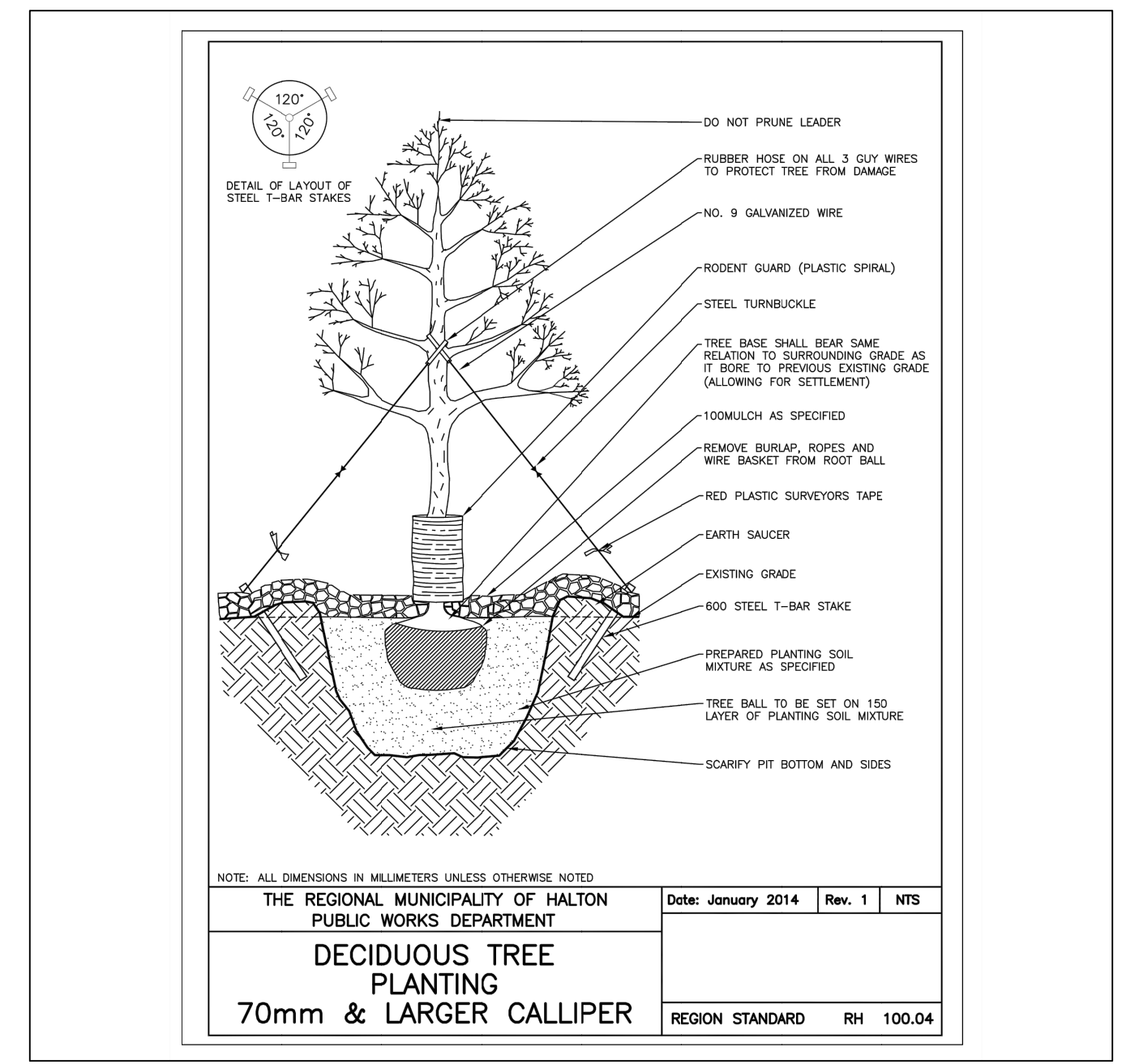
**NOTE:**  
 1. \* Denotes new trees planted as compensatory trees for the ones being removed. 26 out of 27 new trees are compensatory trees. For species refer to plant list. For locations refer to L100 and L102.  
 2. 22 of the compensatory trees are part of the tree canopy cover contribution. For locations refer to L103.

**MAIN ENTRANCE PLANT LIST**

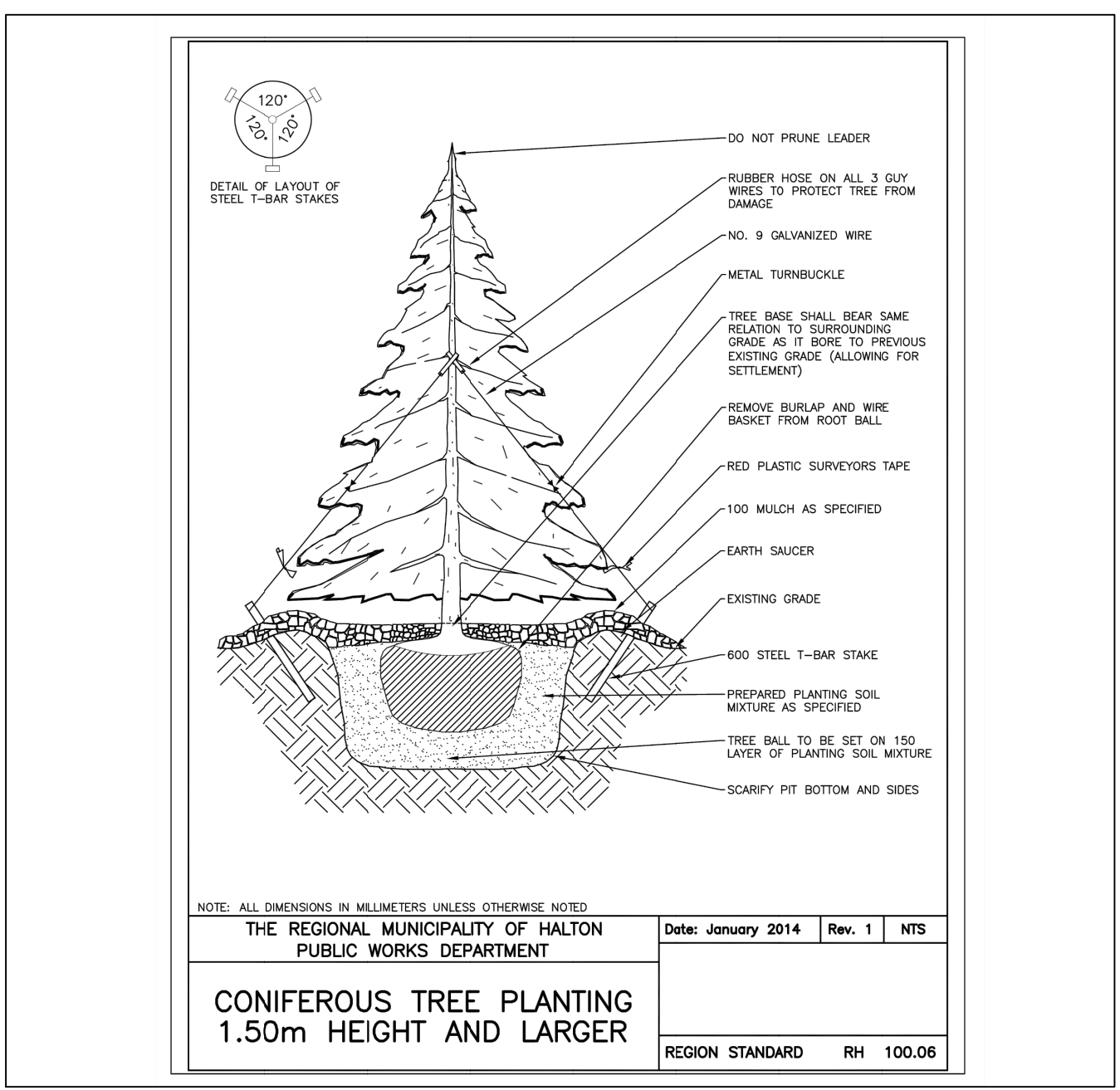
Key	Qty.	Botanical Name	Common Name	Cal.	Spr.	Hgt.	Root	Remarks
<b>TREES</b>								
Fg	5	<i>Picea glauca</i>	White Spruce			2000	B&B	Native / Drought Tolerant
Qr	3	<i>Quercus rubra</i>	Red Oak			70	B&B	Native / Salt Tolerant
Qa	3	<i>Quercus alba</i>	White Oak			70	B&B	Native
<b>SHRUBS</b>								
ac	3	<i>Amelanchier canadensis</i>	Shadblow Serviceberry			1750	B&B	Native / multi-stemmed
jcd	14	<i>Juniperus chinensis 'Daub's Frosted'</i>	Daub's Frosted Juniper			600	7 gal.	evergreen / Salt Tolerant
mg	6	<i>Myrica Gale</i>	Sweet Gale			600	3 gal.	Native
<b>PERENNIALS AND GRASSES</b>								
cp	110	<i>Carex pensylvanica</i>	Oak Sedge				1 gal.	Native / groundcover
HO	50	<i>Hierochloa Odorata</i>	Sweet Grass				1 gal.	Native / Salt Tolerant
Vm	862	<i>Vinca Minor</i>	Periwinkle				1 gal.	Groundcover

L1 MAIN ENTRANCE PLANTING PLAN  
 L102 PLAN VIEW

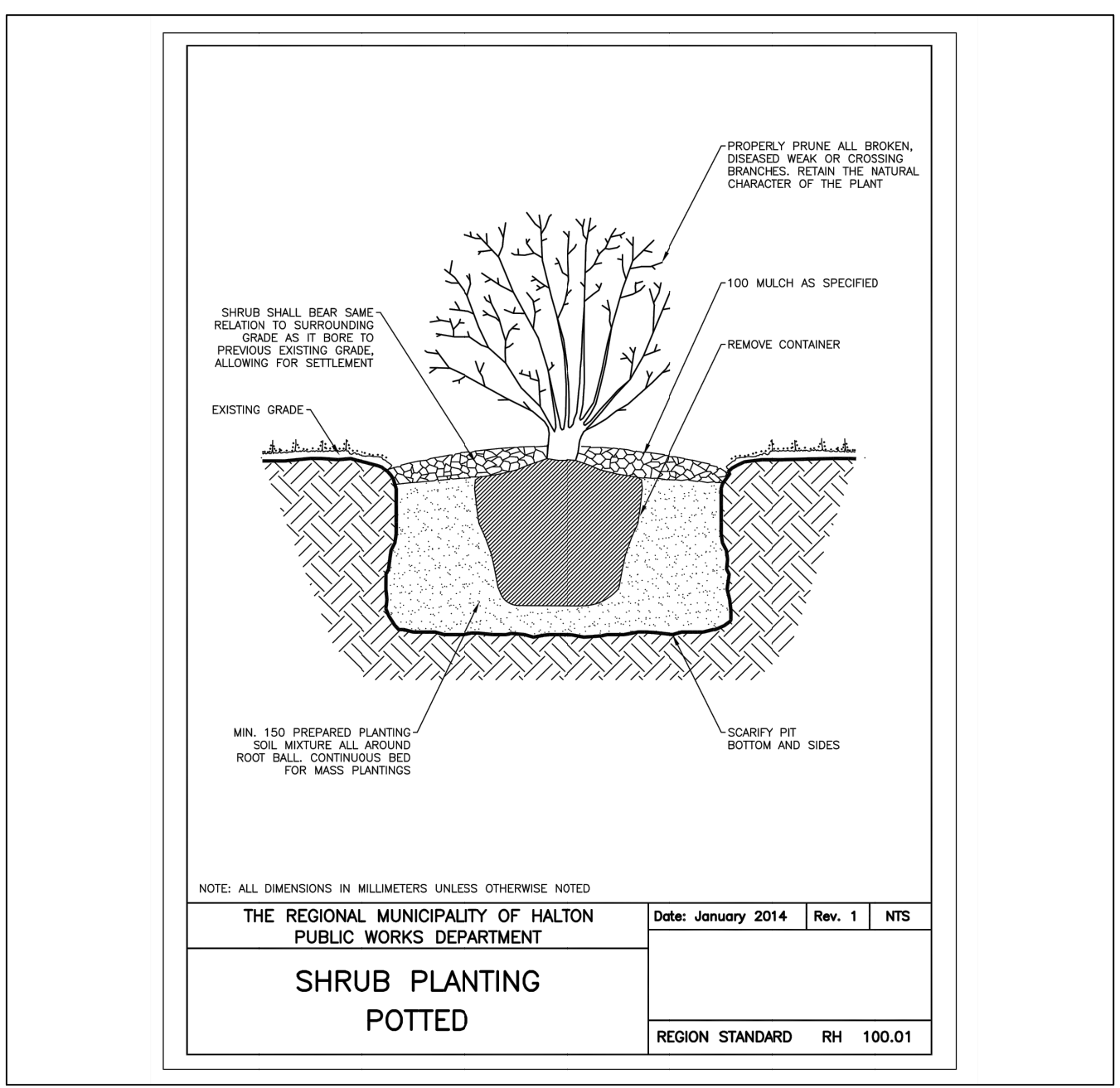
SCALE 1:100



D1 TYPICAL DECIDUOUS TREE PLANTING  
 L102 HALTON REGION STANDARD DETAIL NOT TO SCALE



D2 TYPICAL CONIFEROUS TREE PLANTING  
 L102 HALTON REGION STANDARD DETAIL NOT TO SCALE



D3 TYPICAL SHRUB PLANTING  
 L102 HALTON REGION STANDARD DETAIL NOT TO SCALE



Project Name:  
**Halton WWTP  
 Maint Facility**  
 Location:  
**2195 North Service Rd  
 W, Oakville, ON**  
 Number:  
**2102**  
 Sheet Title:

**TREE CANOPY COVER AND  
 CALCULATION PLAN**


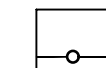
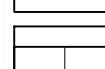

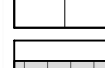
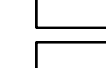
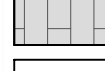



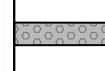
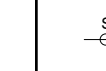


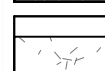

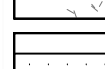

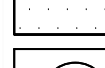
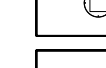



Scale: 1 : 300




Drawn: JJ / IW / RM / YC

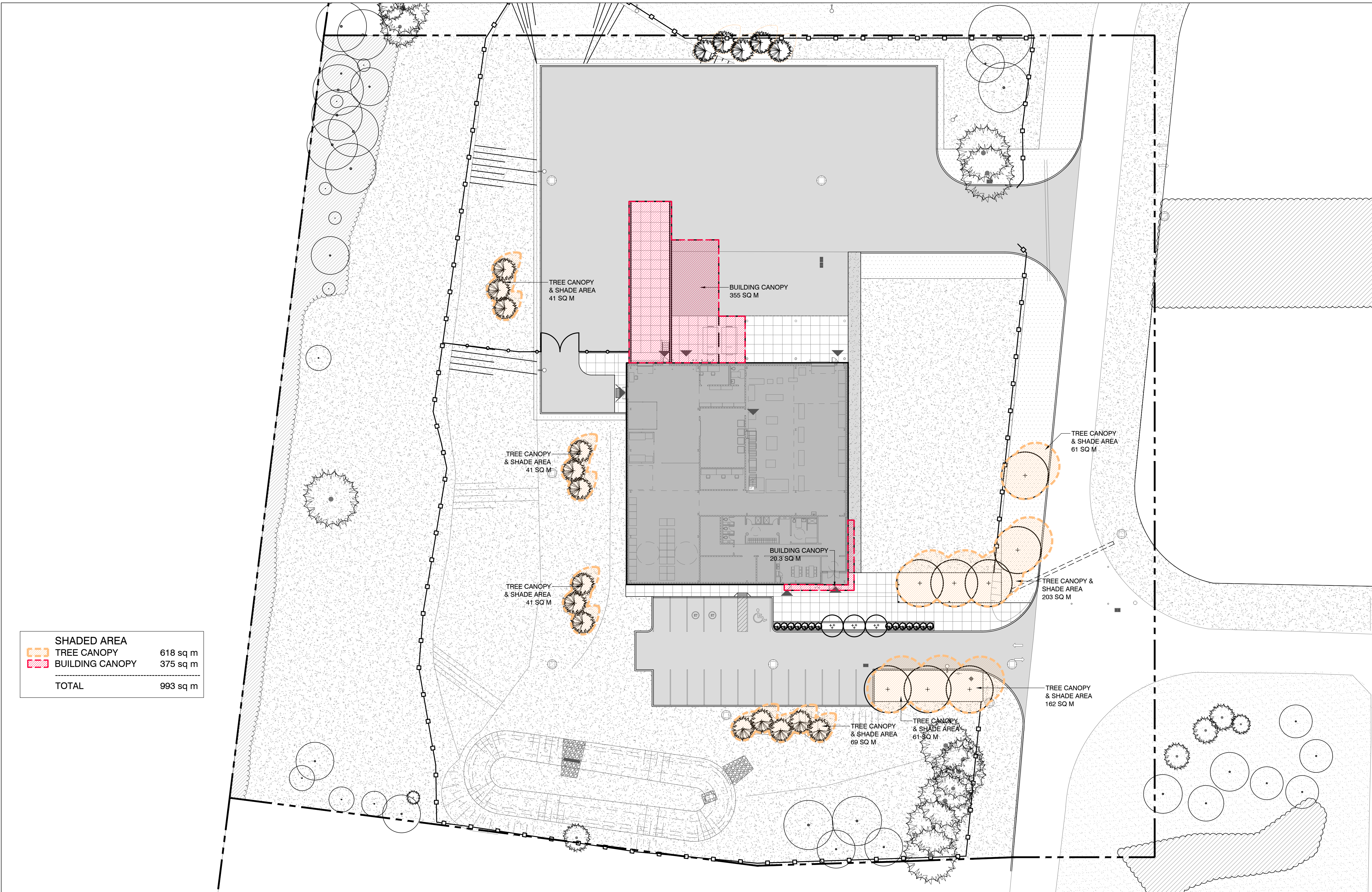
Checked: VK / JJ

Date: 2023-03-22

Legend:

	PROPERTY LINE		CHAIN LINK FENCE 1800mm HT
	CONCRETE PAVING		FIRE HYDRANT SEE CIVIL
	900x300 UNIT PAVING BY TECHOBLOC		BOLLARD LIGHT SEE ELECT.
	ACCESSIBLE LIMESTONE SCREENINGS		EV CHARGING PEDESTAL SEE ELECT.
	TACTILE ATTENTION INDICATOR		SIGNAGE SEE ARCH
	EXISTING LAWN		FIRE ROUTE SIGNAGE SEE ARCH
	LOW MOW MEADOW		LIGHT STANDARD SEE ELECT.
	NEW SOD		MANHOLE SEE CIVIL
	EXISTING DECIDUOUS TREE TO REMAIN		CATCH BASIN SEE CIVIL
	EXISTING CONIFEROUS TREE TO REMAIN		SIAMESE CONNECTION SEE CIVIL
	EXISTING VEGETATION TO REMAIN		
	DECIDUOUS TREE		
	CONIFEROUS TREE		

	SHADED AREA	
	TREE CANOPY	618 sq m
	BUILDING CANOPY	375 sq m
	TOTAL	993 sq m



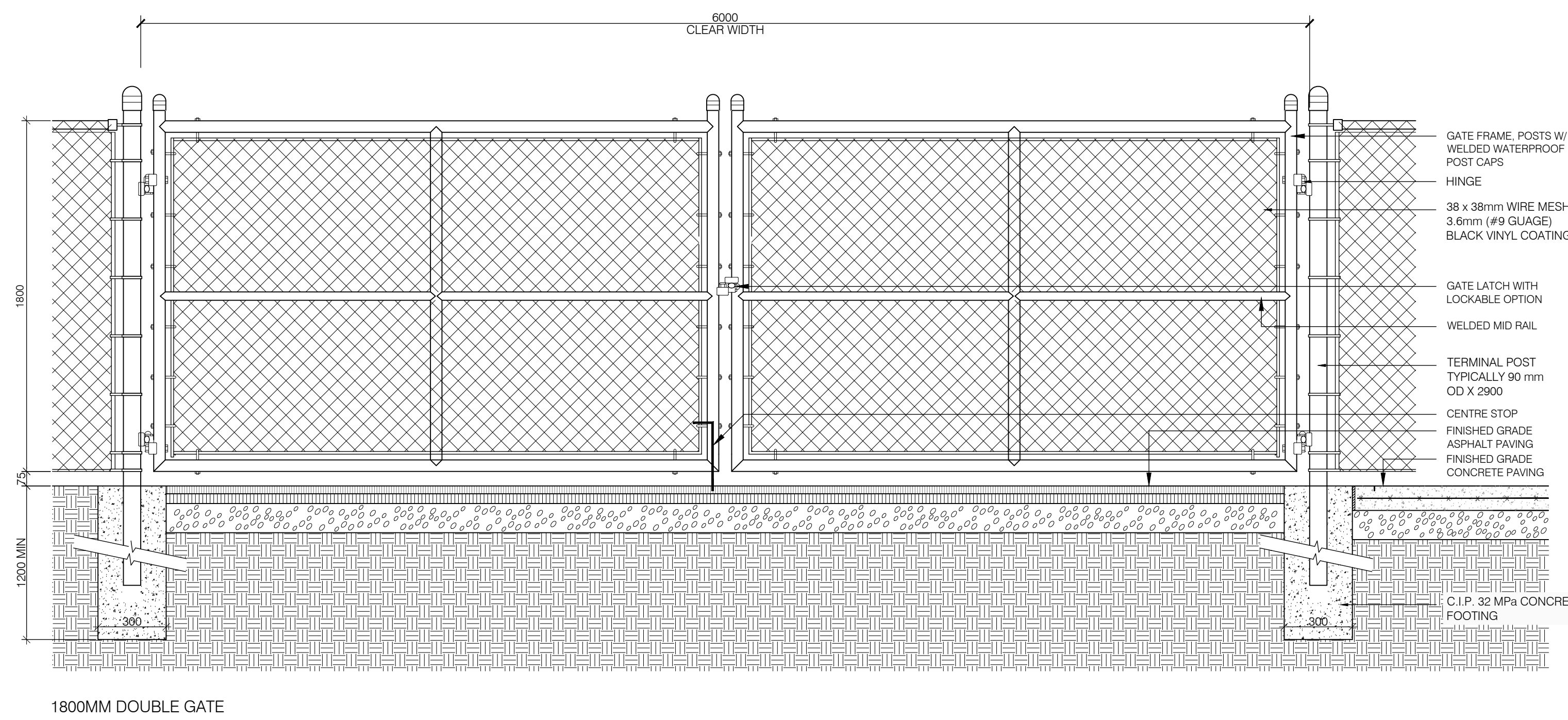
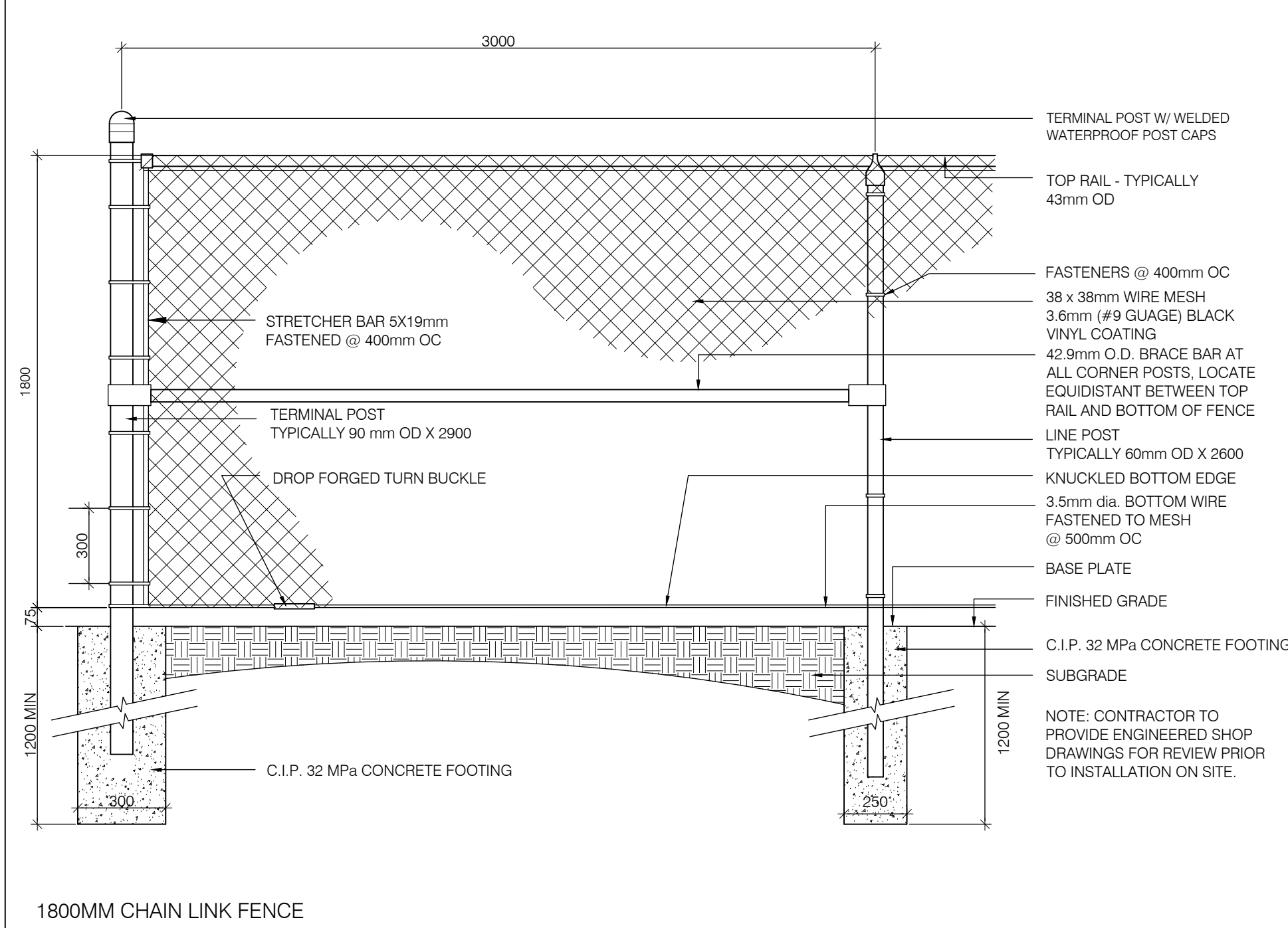
L1 TREE CANOPY COVER AND CALCULATION PLAN  
 L103 PLAN VIEW

SCALE 1:300

Issued For:

No.	Description	Date
5	Issued for SPA	2023-03-22
4	Issued for VE submission	2022-11-14
3	Issued for Site Plan Approval	2022-08-12
2	Issued for Class 'C' Costing	2022-06-16
1	Issued for Coordination	2022-05-25





- NOTES:
1. ALL FABRIC SHALL BE 3.6mm (#9 GAUGE WITH #11 GAUGE STEEL CORE) KNUCKLED AT TOP AND BOTTOM. THE VINYL COATING SHALL BE BLACK.
  2. ALL POSTS AND RAILS SHALL BE GALVANIZED STEEL PIPE STANDARD WEIGHT, CONFORMING TO CURRENT SPECIFICATIONS FOR BLACK AND HOT DIPPED ZINC COATED (GAL. WELDED AND SEAMLESS PIPE FOR ORDINARY USES, ASTM, DESIGNATION A120).
  3. ALL REQUIRED FITTINGS AND HARDWARE SHALL BE SUITABLE ALUMINUM ALLOY OR OF A STEEL DUCTILE IRON ASTM SPECIFICATION (A152).
  4. MINIMUM REQUIREMENTS FOR ZINC COATING: WIRE = 0.5 KG/M POSTS AND RAILS = 0.5 KG/M FRAME AND BRACES = 0.5 KG/M CAST FITTINGS = 0.6 KG/M OTHER FITTINGS = 0.6 KG/M
  5. FABRIC SHALL BE INSTALLED ON THE EXTERIOR SIDE OF THE FENCE POSTS.
  6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
  7. CONTRACTOR TO PROVIDE STAMPED ENGINEERED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
  - 8.

D1 TYPICAL 1800mm BLACK VINYL CHAIN LINK FENCE AND GATE SECTION

SCALE 1:20



**VERTECHS DESIGN**  
landscape architects

Project Name:  
**Halton WWTP Maint Facility**

Location:  
**2195 North Service Rd W, Oakville, ON**

Number:  
**2102**

Sheet Title:  
**LANDSCAPE DETAILS**

Scale: AS SHOWN

Drawn: JJ / IW / RM / YC

Checked: VK / JJ

Date: 2023-03-22

Legend:

Issued For:

No.	Description	Date
5	Issued for SPA	2023-03-22
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