

Beaty Biodiversity Centre Addition Landscape Drawings

Issued For DP R1 - June 17th, 2022

DRAWING LIST

Landscape

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ISSUES + REVISIONS		DESCRIPTION
NO	DATE	
A.	MARCH 29, 2022	ISSUED FOR DP
B.	JUNE 10, 2022	ISSUED FOR 100% DD
C.	JUNE 17, 2022	ISSUED DP R1

HAPA

Landscape Architecture
Urban Design

403 - 375 West Fifth Avenue
Vancouver BC, V5Y 1J6

604 909 4150
hapacobo.com

Not for
construction

public

1495 FRANCES STREET
VANCOUVER BC V6L 1Z1
TEL: 604 738 4323
WWW.PUBLICDESIGN.CA

Beaty Biodiversity Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH

TRUE NORTH

PROJECT CODE

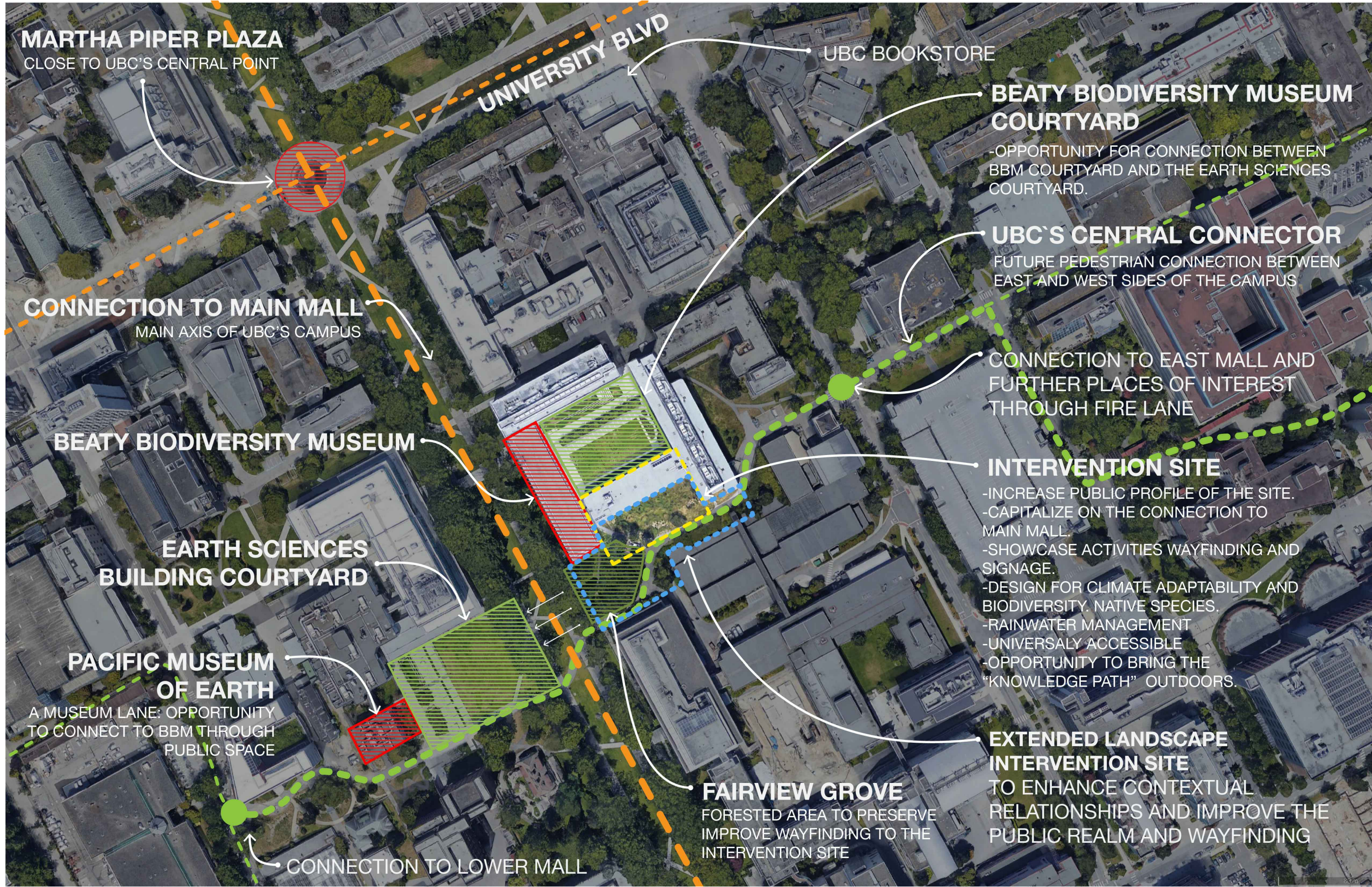
2122

SCALE

Cover Page

SHEET
L0.00

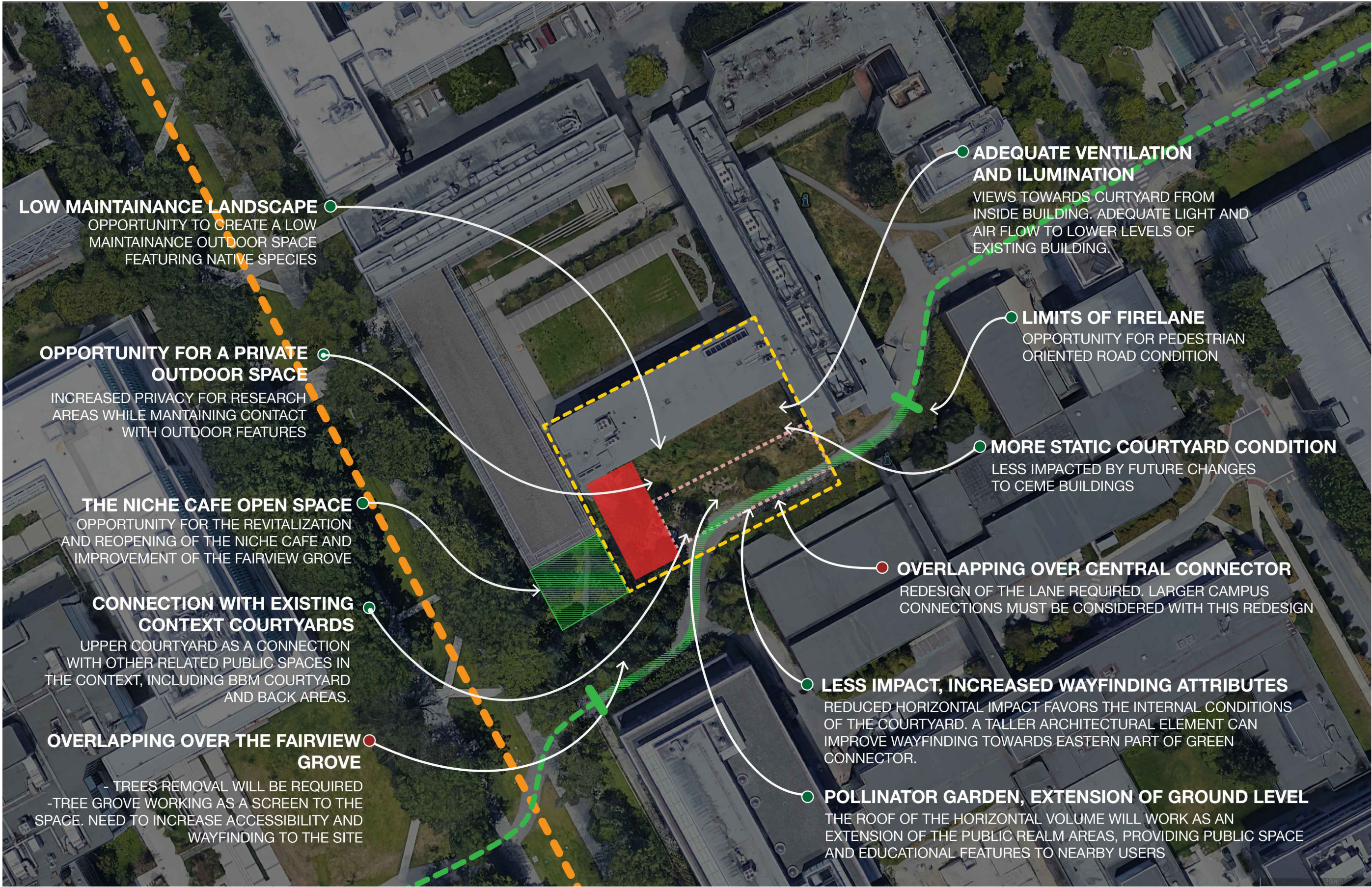
Public Realm Observations



The project site works as a hinge between the Beaty Biodiversity Museum courtyard and the Earth Sciences - Pacific Museum of Earth courtyard, presenting opportunities to connect these spaces as a natural sciences complex.

This project introduces itself in the context between Main Mall and the future UBC Central Connector project by presenting many advantages and opportunities in terms of connectivity to the bigger context, highlighting the importance of creating an inviting, public and inclusive space.

Opportunities and Constraints



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Beaty
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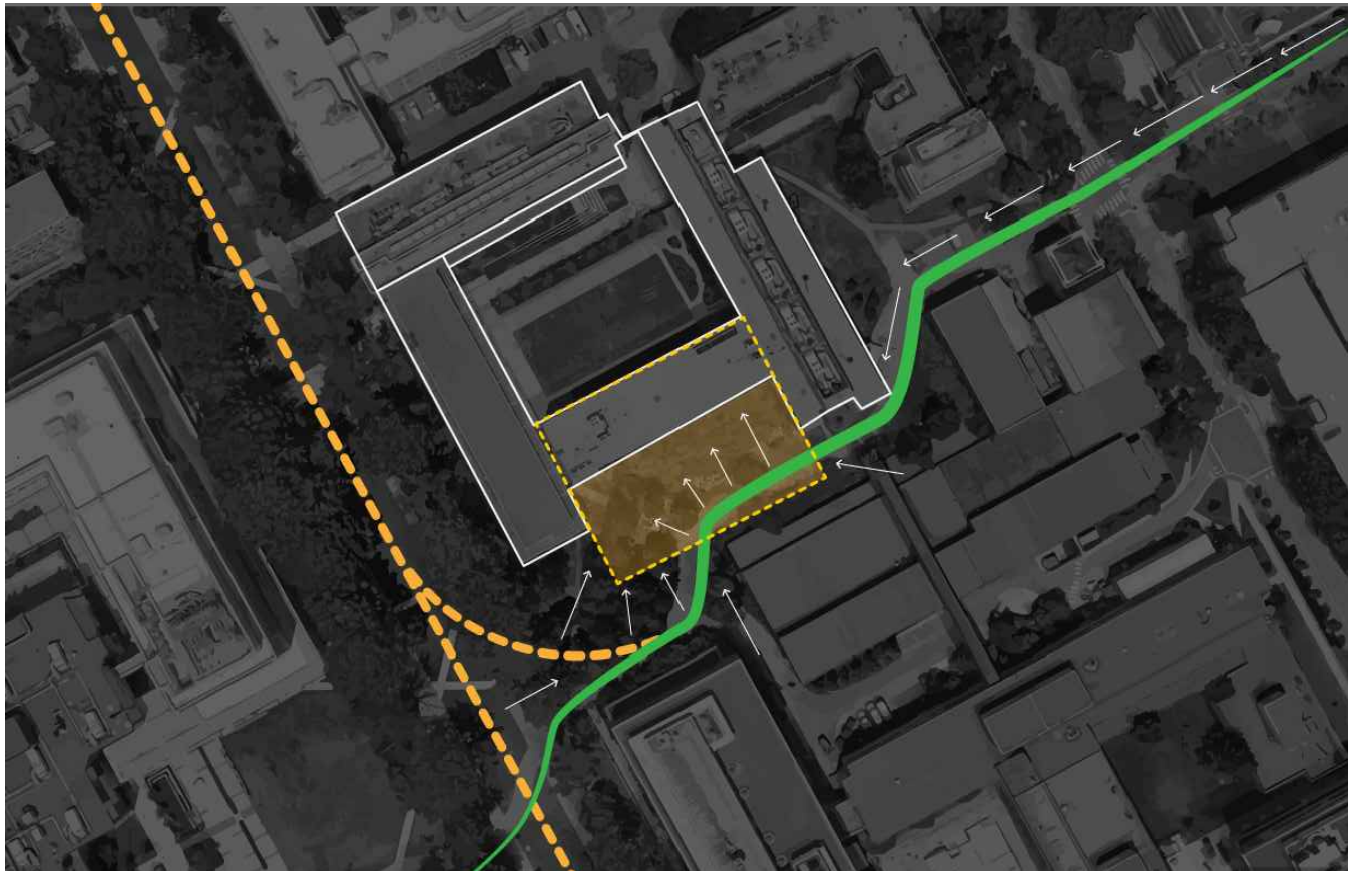
2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE

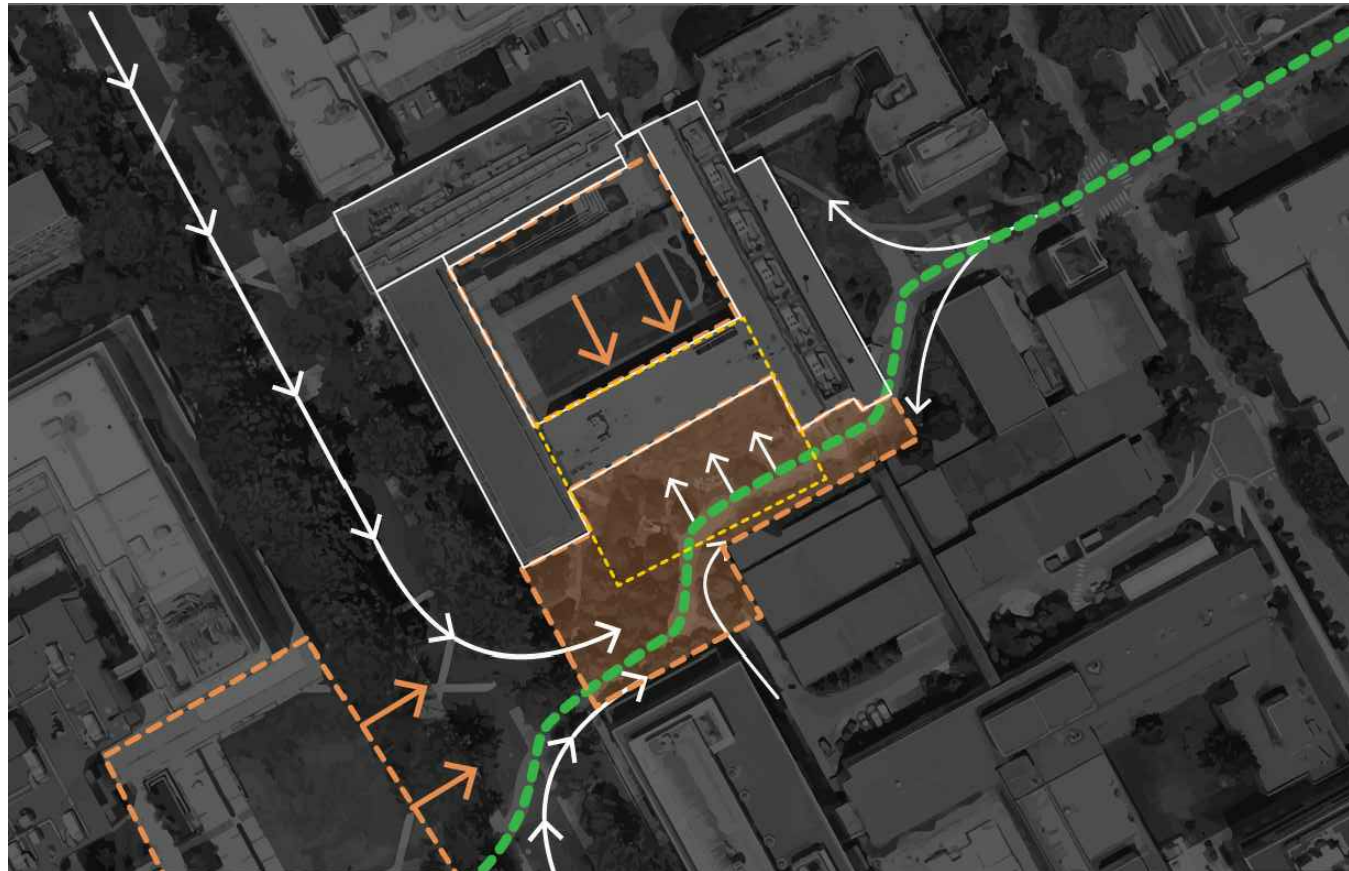
Landscape Rationale

SHEET
L0.01



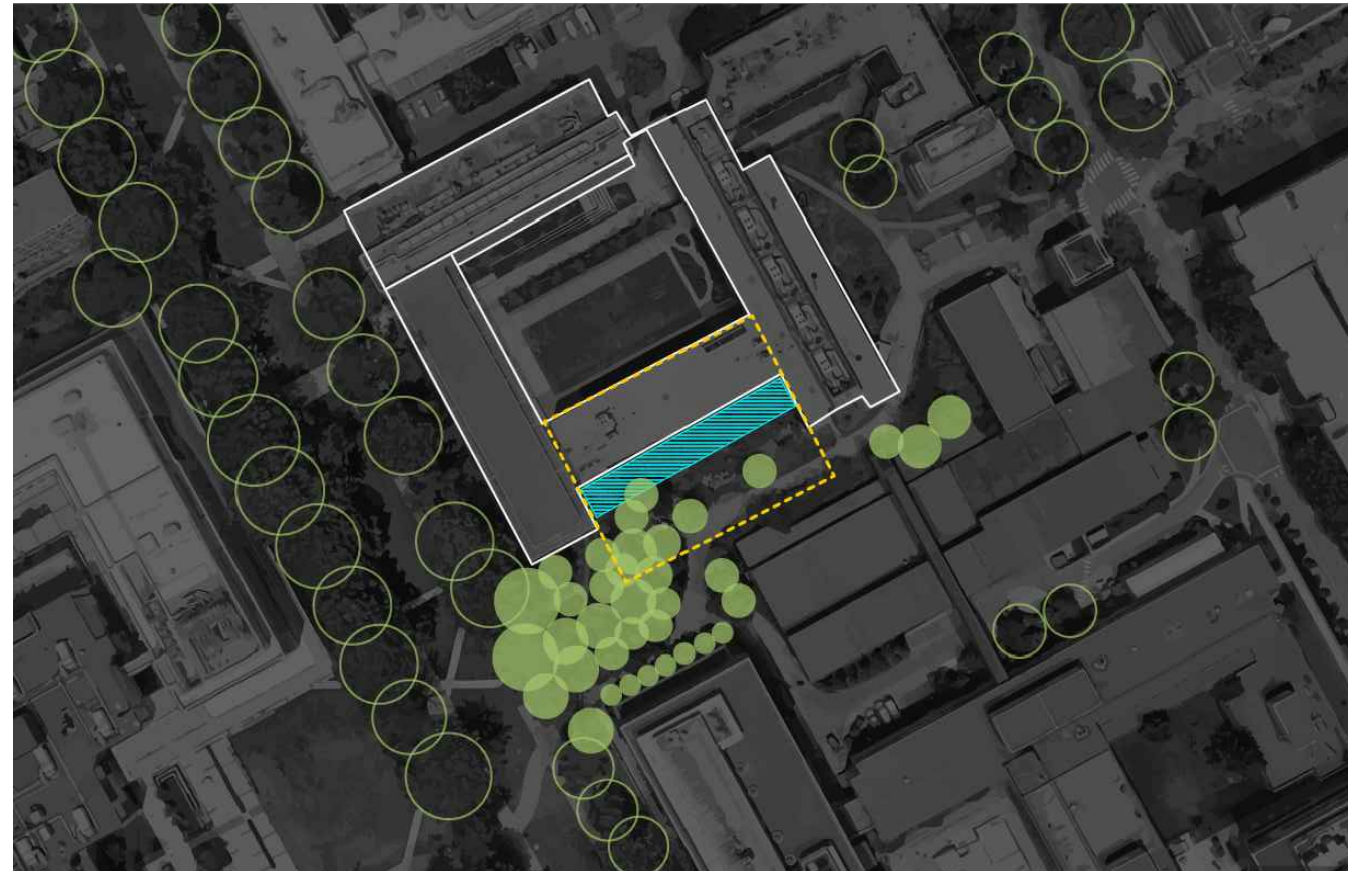
PUBLICNESS - WAYFINDING

The site presents evident opportunities to improve the East to West connection on campus through the Central Connector as a pedestrian path, increasing accessibility and enhancing wayfinding to the site. The intention is to create a route perceived as inviting by the users, encouraging them to visit and enjoy the outdoor facilities of the Beaty Biodiversity Center for leisure, learning, and research purposes.



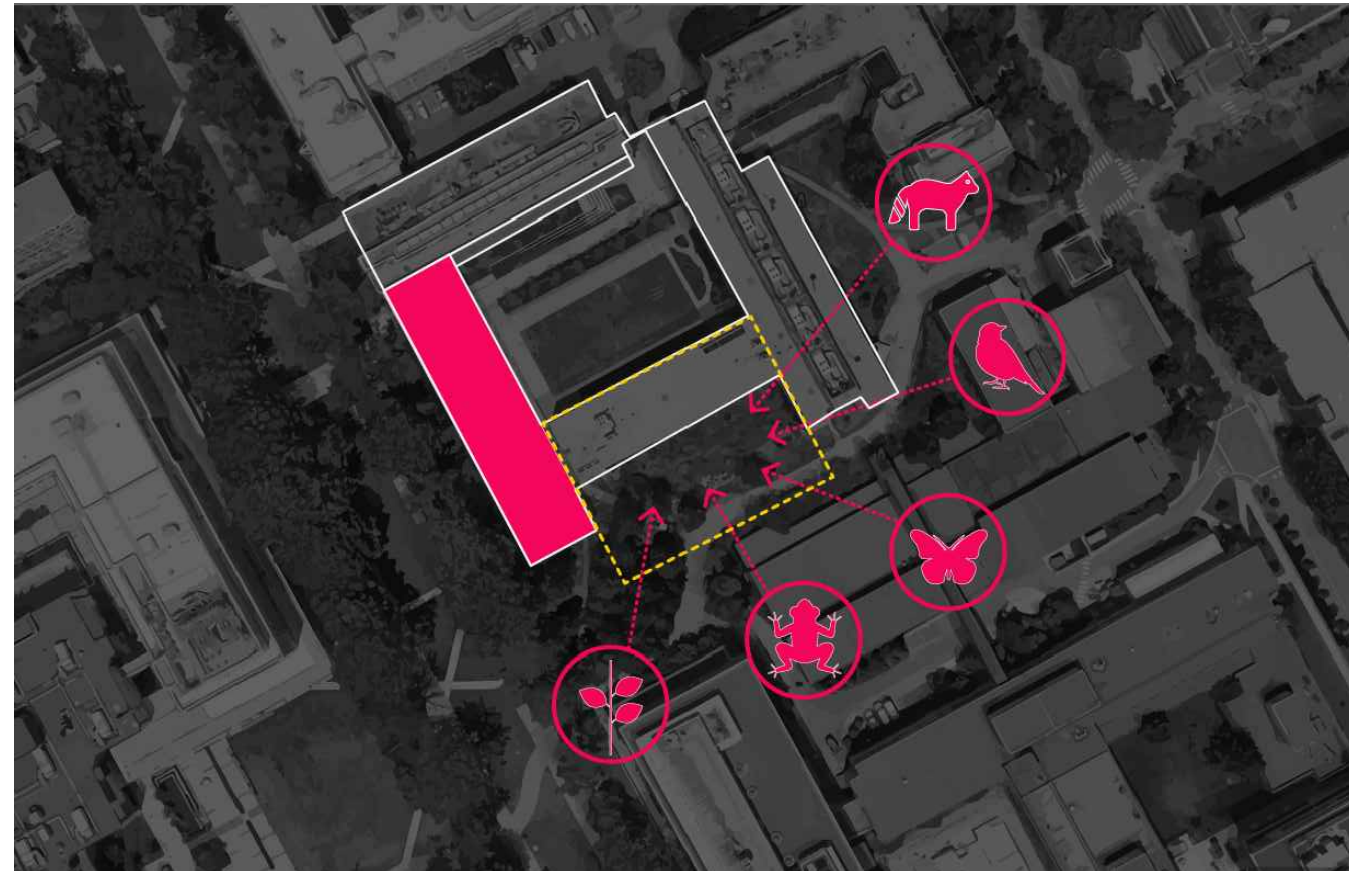
CULTURAL COMPLEX - CONNECTIVITY

The intervention site introduces itself between the existing Beaty Biodiversity Museum courtyard and the Earth Sciences courtyard, transforming the space into a cultural complex focused on the natural sciences. Connecting the Pacific Museum of Earth with the Beaty Biodiversity Centre through a system of articulated courtyards improves the cultural and recreative value of the composition. The intention is to capitalize on the pedestrian traffic generated by the Central Connector to activate and articulate the courtyard system.



SUSTAINABILITY

Preserve existing trees as much as possible. The future design intends to preserve and connect Fairview Grove with the larger landscape and courtyards instead of presenting it as a self-contained unit of trees. Sustainability must be a core principle, materials included should be low maintenance and sustainably sourced.



BRING THE MUSEUM OUT!

A biodiversity museum requires a biodiverse landscape. The intention is to bring the concept of the exhibitions out in the landscape intervention working as a living laboratory for the research center in a contextually aware manner being responsive to the native species and growing conditions. The landscape must support habitat for different species of native plants and animals that can be observed as part of the educational, recreational, and research purposes of the complex. The courtyard has the opportunity to serve as an outdoor, living extension of the exhibitions.



INDIGENOUS PERSPECTIVE

Explore and implement opportunities for the inclusion and leadership of Indigenous values and teachings within the landscape. There is an opportunity to extend the 'Knowledge Path' happening inside the museum to its outdoor facilities, increasing the social dynamic and learning experiences in the landscape while being consistent with the efforts the UBC is undertaking to decolonize design by including Indigenous knowledge in campus values and design efforts.



INFORMAL LEARNING

Activate learning moments within the landscape to support informal and hands-on learning opportunities and allow for a continuous indoor/outdoor experience that helps to externalize the museum. By creating a biodiversity-based and sustainable landscape, it is possible to increase the observation potential of many species of birds, insects, butterflies, bats, and tetrapods. The intention is to create a living laboratory that can be openly used, observed and enjoyed by students, researchers, and children.



PROGRAM

Thematically we see the opportunity to highlight three big ideas within the landscape. The first one is the living laboratory, the idea of an outdoor space that supports research and investigation. The second is the museum extension into the landscape, connecting visitors to living biodiversity as part of the museum collection. Lastly, a contemplative outdoor space that allows staff and students an opportunity to take a moment from their research to relax and reflect.



OUTDOOR-INDOOR RELATIONSHIP

Much as the current museum building along Main Mall acts as a beacon, the new landscape space has the opportunity to signal the museum and collections along the Central Connector creating a distinguished and memorable campus node. Blending of borders between outdoor and indoor and fostering a fluid connection of space can provide an engaging experience for daily users and visitors.

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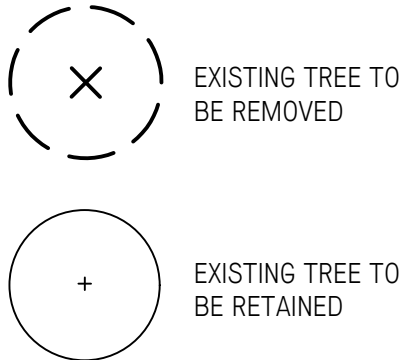
PROJECT CODE
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SCALE

Design Principles

SHEET
L0.02

Tag #	Species	DBH (cm)	Height (m)	Drip-line Radius	Health and Structure Rating	Comments	Retention Value Rating	Retain/Remove	Retention/TPZ Comments	*TPZ
7816	Cherry (P. serulata)	40	4	4	Poor	Asymmetric crown, retaining wall 3m away limiting rooting to NW. Clearance pruned for adjacent road, decay in pruning sites. Mechanic damage to roots	Low	Retain	Protect as required	2.6
7815	Cherry (P. serulata)	44	3	4	Poor	Heavily Clearance pruned for road 1m north, root zone limited by road. Extensive decay throughout. Road 1m north limiting roots. Decay in main stem, insect activity evident. Minor mechanical root damage.	Low	Retain	Protect as required	2.9
7814	Cherry (P. serulata)	47	4	4	Poor	Road 1m north limiting roots. Decay in main stem, insect activity evident. Minor mechanical root damage.	Low	Retain	Protect as required	3.1
7808	Cherry (P. serulata)	56	4	4	Poor	Two stems at breast height, 33 and 23 cm. Thinning, asymmetric crown. Clearance pruned for road with decay evident.	Low	Retain	Protect as required	3.6
7807	Cherry (P. serulata)	60	4	4	Poor	Three stems at breast height, 15, 15, and 30 cm. Thin asymmetric crown, clearance pruned for road 2m north.	Low	Retain	Protect as required	3.9
7806	Cherry (P. serulata)	41	3	4	Poor	Asymmetric and thin crown, pruned for road 2m north. Decay in branches, mechanical wounding to roots.	Low	Retain	Protect as required	2.7
7805	Cherry (P. serulata)	59	5	4	Poor	Asymmetric and him crown, clearance pruned for road 2m north. Decay in pruning site. Deformed and asymmetric stem near base. Poorly pruned near branch tips. Decay in stem.	Low	Retain	Protect as required	3.8
7824	Cherry (P. serulata)	61	35	3	Poor	Deformed and asymmetric stem near base. Poorly pruned near branch tips. Decay in stem.	Low	Remove	Tree in conflict with proposed building	4.0

TREE MANAGEMENT LEGEND



TREE MANAGEMENT PLAN NOTES

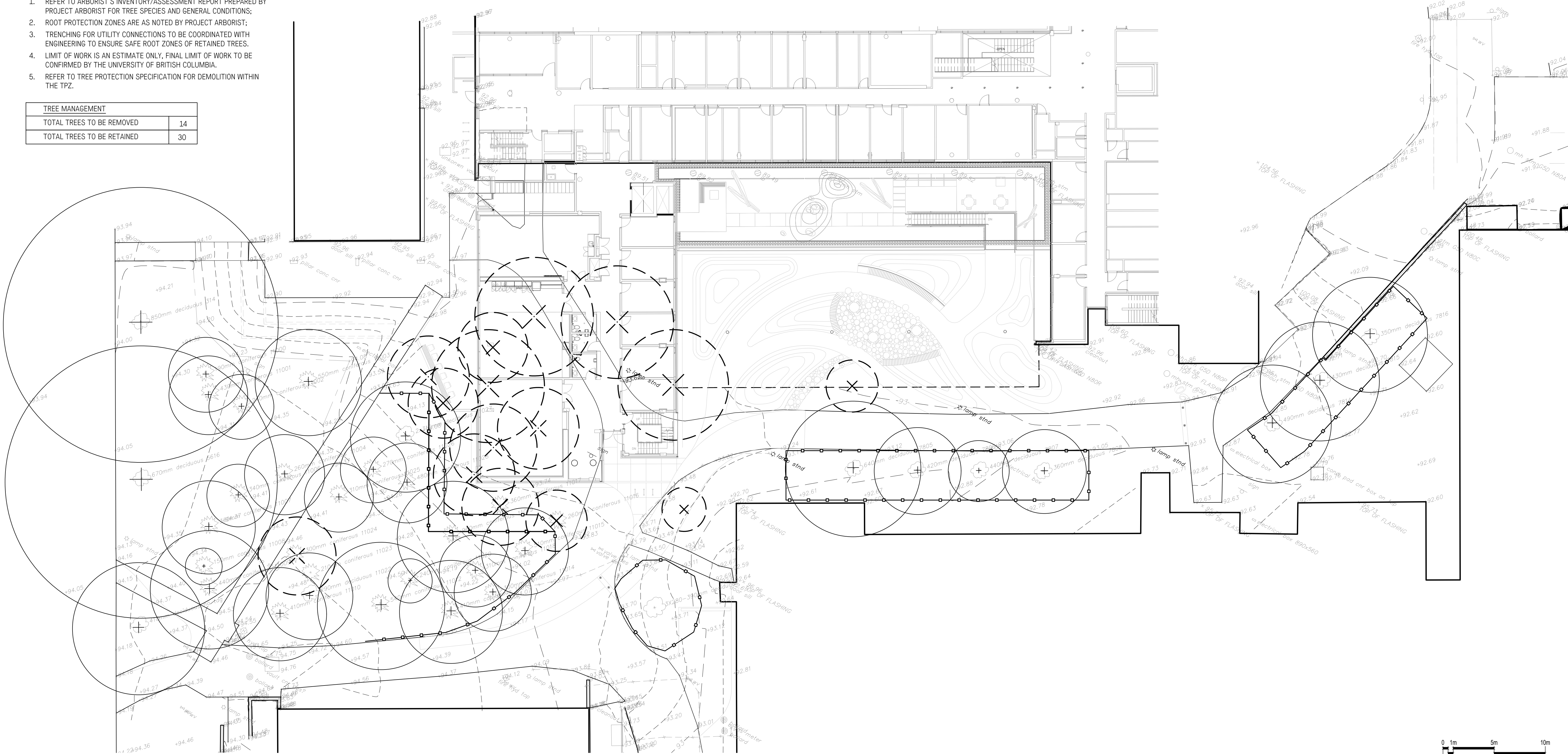
- REFER TO ARBORIST'S INVENTORY/ASSESSMENT REPORT PREPARED BY PROJECT ARBORIST FOR TREE SPECIES AND GENERAL CONDITIONS;
- ROOT PROTECTION ZONES ARE AS NOTED BY PROJECT ARBORIST;
- TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH ENGINEERING TO ENSURE SAFE ROOT ZONES OF RETAINED TREES.
- LIMIT OF WORK IS AN ESTIMATE ONLY, FINAL LIMIT OF WORK TO BE CONFIRMED BY THE UNIVERSITY OF BRITISH COLUMBIA.
- REFER TO TREE PROTECTION SPECIFICATION FOR DEMOLITION WITHIN THE TPZ.

TREE MANAGEMENT	
TOTAL TREES TO BE REMOVED	14
TOTAL TREES TO BE RETAINED	30

Tag #	Species	DBH (cm)	Height (m)	Drip-line Radius	Health and Structure Rating	Comments	Retention Value Rating	Retain/Remove	Retention/TPZ Comments	*TPZ
275	Cedar (T. plicata)	55	15	3	Poor	Two stems from 3m, acute union with inclusion. Despite this poor structure the tree has good vigor. Road 3m south possibly limiting roots. Tagged by DMC, no survey tag.	Low	Remove	Tree in conflict with proposed building	3.6
274	Cedar (T. plicata)	51	15	3	Poor	Small decay cavity at base. Multi stemmed from 4m, acute union with inclusion. Good vigor. Tagged by DMC, no survey tag.	Low	Remove	Tree in conflict with proposed building	3.3
11014	Cedar (T. plicata)	39	17	3	Moderate	Edge tree of stand. Asymmetric crown. Road in root zone 2m south and southeast. Pruned subdominant stem at base, but minimal decay at pruning site.	Medium	Retain	Protect as required	2.5
11015	Cedar (T. plicata)	53	18	4	Moderate	Edge tree of stand. Asymmetric crown. Good health and structure otherwise.	Medium	Retain	Minor pruning may be required for access	3.5
11016	Spruce (P. stichensis)	39	13	3	Moderate	Edge tree of stand. Asymmetric crown. Road in root zone 2m east. Lots of dead wood in lower canopy due to shade.	Medium	Remove	Conflicts with excavation and construction access.	2.5
11031	Cedar (T. plicata)	67	20	5	Moderate	Healthy and vigorous, good structure. Asymmetric crown due to trees to west. Unsurveyed, located 4m from apex of curve in path. 2m due west of surveyed sign.	Medium	Remove	Tree in conflict with proposed building	4.4
11032	Cedar (T. plicata)	61	20	5	Moderate	Healthy and vigorous, good structure. Slightly asymmetric crown due to trees to west. Road 30m east of stem.	Medium	Remove	Tree in conflict with proposed building	4.0
11033	Douglas-fir (P. menziesii)	29	20	5	Moderate	Very asymmetric crown due to two large adjacent cedars. Should not be retained alone.	Medium	Remove	Tree in conflict with proposed building	1.9
11034	Cedar (T. plicata)	59	20	5	Moderate	Healthy and vigorous, good structure. Slightly asymmetric crown due to adjacent trees.	Medium	Remove	Tree in conflict with proposed building	3.8
11030	Cedar (T. plicata)	34	17	3	Moderate	Asymmetric crown, tight spacing. Should not be retained alone.	Medium	Remove	Tree in conflict with proposed building	2.2

Tag #	Species	DBH (cm)	Height (m)	Drip-line Radius	Health and Structure Rating	Comments	Retention Value Rating	Retain/Remove	Retention/TPZ Comments	*TPZ
11029	Spruce (P. stichensis)	35	23	4	Moderate	Asymmetric crown, tight spacing. Poor taper, one of taller trees in grove. Should not be retained alone.	Medium	Remove	Tree in conflict with proposed building	2.3
11017	Cedar (T. plicata)	40	20	4	Moderate	Asymmetric crown, tight spacing. Should not be retained alone.	Medium	Remove	Conflicts with excavation and construction access.	2.6
11018	Douglas-fir (P. menziesii)	31	20	4	Poor	Asymmetric crown, tight spacing. Multiple crooks in crown, poor structure. Should not be retained alone.	Low	Retain	Protect as required	2.0
11011	Douglas-fir (P. menziesii)	48	23	5	Moderate	Dominant edge tree. Slightly asymmetric crown due to edge effect and clearance pruning. Two leaders in top 5m, unable to assess union.	Medium	Retain	Protect as required	3.1
11020	Douglas-fir (P. menziesii)	31	21	4	Poor	Poor taper, unstable if retained alone. High crown with low live crown ratio.	Low	Retain	Protect as required	2.0
11019	Cedar (T. plicata)	72	21	5	Moderate	Multiple stems from 1m, unions are moderate. Despite poor structure, tree has good vigor. Retention possible alone, but not recommended.	Medium	Retain	Minor pruning may be required for access	4.7
11035	Fir (A. grandis)	29	18	3	Moderate	Moderate exposure with slight crown asymmetry. Good vigor.	Medium	Remove	Conflicts with excavation and construction access.	1.9
11036	Cedar (T. plicata)	33	15	4	Moderate	Edge tree, slightly asymmetric crown. Slightly thinning.	Medium	Remove	Conflicts with excavation and construction access.	2.2
11027	Sorbus (S. aucuparia)	65	15	5	Poor	Two stems, 31 and 34 cm DBH. Union acute, crack and inclusion present, but some response growth. Not critical edge tree.	Low	Retain	Minor pruning may be required for access	4.2
11028	Cedar (T. plicata)	52	22	5	Moderate	Codominant in stand. Two stems from 8m, acute union with inclusion. Asymmetric lower crown.	Medium	Retain	Minor pruning may be required for access	3.4
11026	Douglas-fir (P. menziesii)	29	18	5	Moderate	Edge tree, asymmetric crown.	Medium	Retain	Protect as required	1.9

Tag #	Species	DBH (cm)	Height (m)	Drip-line Radius	Health and Structure Rating	Comments	Retention Value Rating	Retain/Remove	Retention/TPZ Comments	*TPZ
11025	Cedar (T. plicata)	34	16	5	Moderate	Normal form. Slightly thin crown. Path 2m to north.	Medium	Retain	Protect as required	2.2
11021	Douglas-fir (P. menziesii)	36	22	4	Moderate	Tall with high crown. Questionable stability if retained alone.	Medium	Retain	Protect as required	2.3
11012	Cedar (T. plicata)	70	26	6	Good	Codominant in stand. Edge tree with good vigor, slightly asymmetric lower crown. Clearance pruned lower laterals.	Medium	Retain	Protect as required	4.6
11024	Cedar (T. plicata)	31	12	3	Moderate	Twisted trunk, phototropic lean. Unstable if retained alone. Path 1m west.	Medium	Retain	Protect as required	2.0
11023	Douglas-fir (P. menziesii)	23	12	3	Poor	Previously failure at 4m, stem growing at failure site with likely decay.	Low	Retain	Protect as required	1.5
11022	Alder (A. rubra)	32	21	4	Moderate	Good health, asymmetric crown. Not typically a long lived tree, typically poor long term extension tree in urban environments.	Low	Retain	Protect as required	2.1
11010	Cedar (T. plicata)	50	18	5	Moderate	Edge tree, asymmetric crown. Clearance pruned lower laterals. Good vigor.	Medium	Retain	Protect as required	3.3
11009	Douglas-fir (P. menziesii)	52	20	5	Good	Edge tree. Healthy, minor clearance pruning. Critical edge tree. Removal may destabilize trees east.	High	Retain	Protect as required	3.4
11007	Douglas-fir (P. menziesii)	37	20	5	Moderate	Asymmetric, protected by trees south. Clearance pruned.	Medium	Retain	Protect as required	2.4
11008	Douglas-fir (P. menziesii)	40	24	5	Moderate	Asymmetric, protected by trees south. Somewhat poor taper. Two leaders. Clearance pruned.	Medium	Retain	Protect as required	2.6
11004	Spruce (P. stichensis)	32	14	4	Poor	Crooked form, thinning lower crown. Path 1 m east. Health is moderate.	Low	Retain	Protect as required	2.1
11003	Cedar (T. plicata)	67	22	5	Good	Open grown. Full healthy crown. Minor clearance pruning.	High	Retain	Protect as required	4.4
11002	Cedar (T. plicata)	27	12	3	Moderate	Suppressed by larger adjacent trees. Asymmetric crown.	Medium	Retain	Protect as required	1.8
11001	Douglas-fir (P. menziesii)	52	24	3	Moderate	Codominant edge tree. Slightly crooked stem, unable to assess top 1/3 but appears normal. Critical edge tree.	Medium	Retain	Protect as required	3.4



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Beaty
Biodiversity
Centre Addition

2122 MAIN MALL, VANCOUVER BC
PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:200 m.

Tree Management
Plan

SHEET
L0.03



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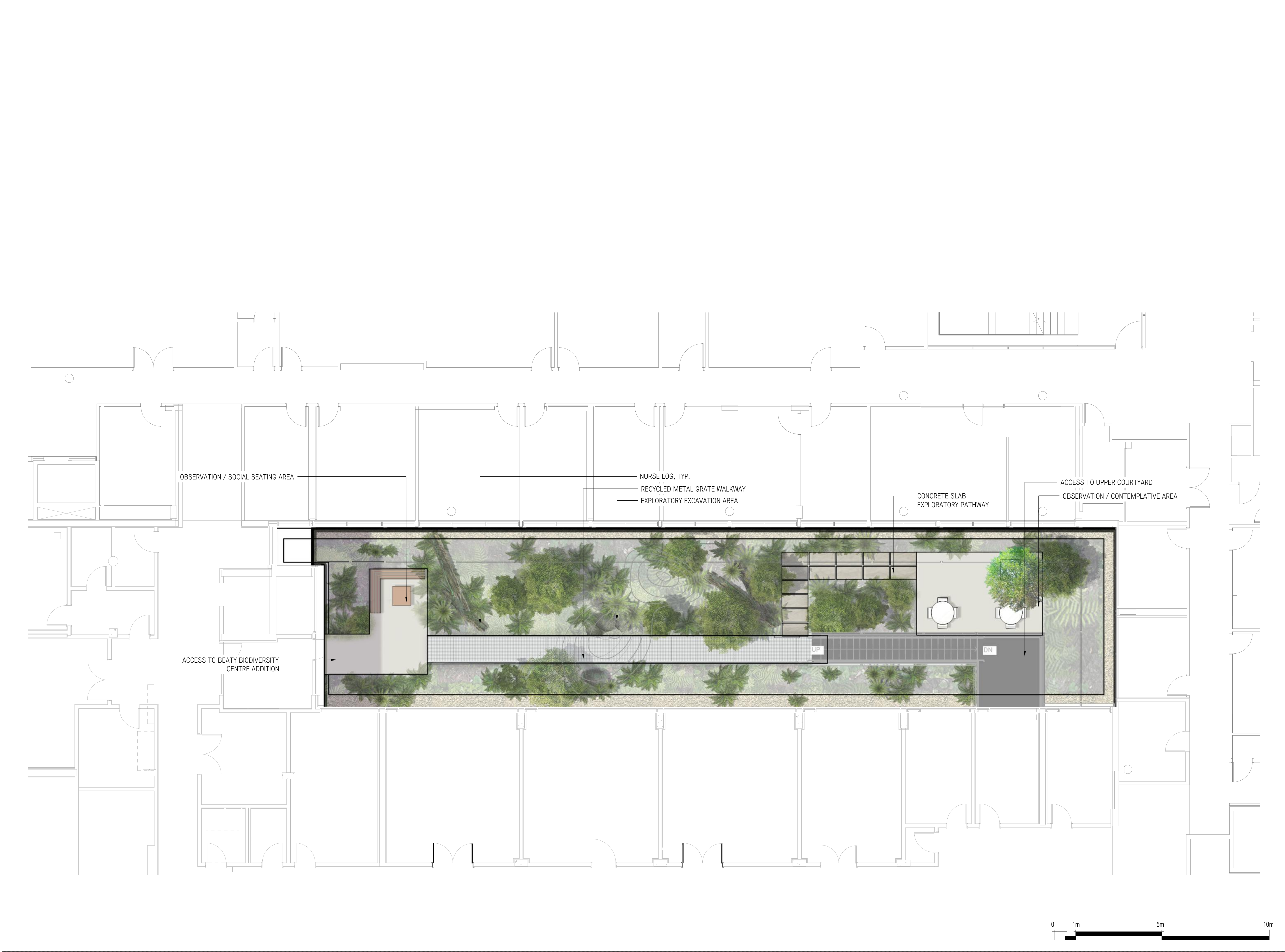
2212 MAIN MALL, VANCOUVER BC

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2122
SCALE
1:150 m.

Concept Plan
Level 1

SHEET
L1.01



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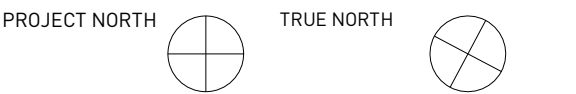
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PROJECT CODE
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SCALE
1:75 m.

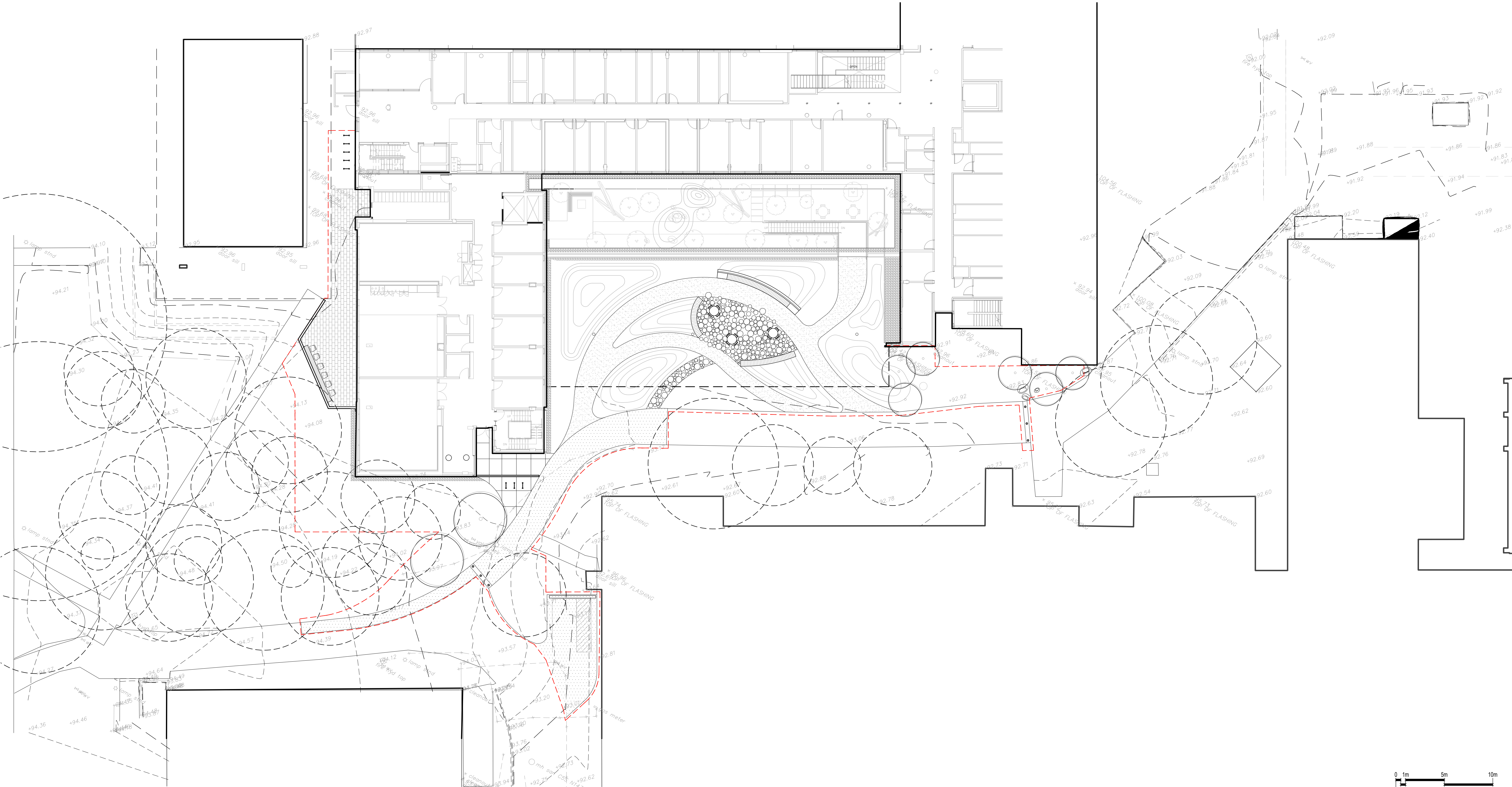
Concept Plan
Basement Level

SHEET
L1.02



GENERAL NOTES

- EXISTING SURVEY INFORMATION IS BASED ON THE FOLLOWING DRAWINGS: 8613JY-01 2021 08 19 ACAD2007;
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST MAKE CAREFUL EXAMINATION OF EXISTING SITE SURFACE CONDITIONS AND TOPOGRAPHY AND ADVISE LANDSCAPE ARCHITECT OF ANY UNSATISFACTORY SITE SURFACE CONDITIONS AND TOPOGRAPHY. NO ALLOWANCES WILL BE MADE LATER FOR ANY EXPENSES INCURRED THROUGH FAILURE TO NOTE UNSATISFACTORY SITE SURFACE CONDITIONS AND TOPOGRAPHY;
- DO NOT SCALE DRAWINGS. USE DIMENSIONAL INFO AS NOTED IN DRAWINGS. CONTACT THE LANDSCAPE ARCHITECT IF THERE IS ANY AMBIGUITY, LACK OF INFORMATION, OR INCONSISTENCY;
- THE CONTRACTOR WILL CLEAN AND REINSTATE ALL AREAS DAMAGED OR AFFECTED BY WORKS OUTSIDE THE LIMIT OF WORK TO THE CONDITIONS THAT EXISTED PRIOR TO CONSTRUCTION OR BETTER AND TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT;
- THE CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON DRAWINGS AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO CONSTRUCTION;
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE LIMIT OF WORK LINE;
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES AND TAKING THE NECESSARY PRECAUTIONS PRIOR TO AND DURING CONSTRUCTION. REFER TO CIVIL;
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF EXCESS FILL OFF-SITE;
- ARCHITECTURAL AND CIVIL DESIGN SHOWN FOR INFORMATION ONLY;
- REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DISCIPLINE SPECIFIC REMOVALS.



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Overall Site Plan Level 1

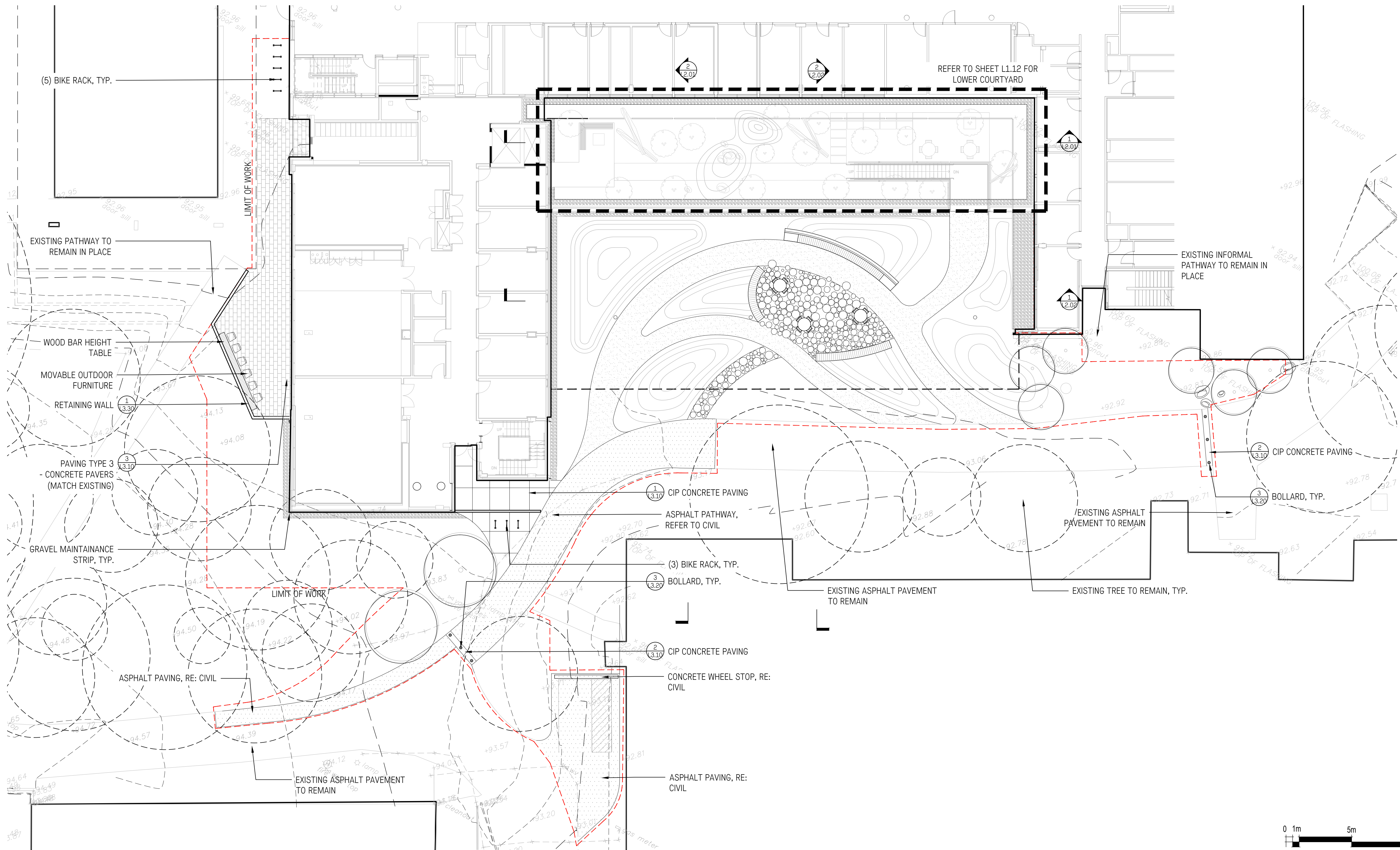
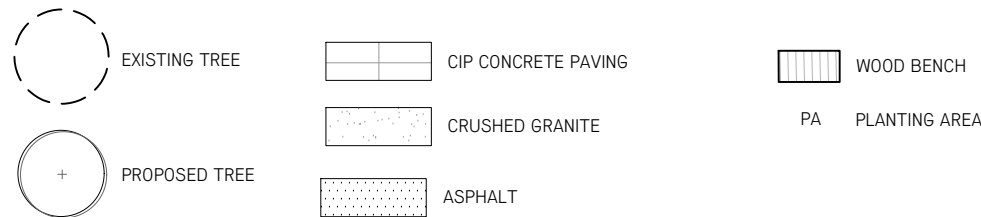
SHEET

L1.10

MATERIALS PLAN NOTES

1. REFER TO DETAILS AND SECTIONS FOR ALL LANDSCAPE IMPROVEMENTS;
2. REFER TO ELECTRICAL FOR SITE LIGHTING INFORMATION;
3. REFER TO UNIVERSITY OF BRITISH COLUMBIA STANDARDS FOR WORK ON TYPICAL SIDEWALKS;
4. TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH UNIVERSITY OF BRITISH COLUMBIA TO ENSURE SAFE ROOT ZONES OF RETAINED TREES. METHODS OF TREE PROTECTION FOR STREET TREES TO BE APPROVED BY UNIVERSITY OF BRITISH COLUMBIA;
5. BOULDER PLACEMENT: COORDINATE REVIEW, SELECTION, AND PLACEMENT WITH LANDSCAPE ARCHITECT.

MATERIALS LEGEND



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ISSUES + REVISIONS		
NO	DATE	DESCRIPTION
A.	MARCH 29, 2022	ISSUED FOR DP
B.	JUNE 10, 2022	ISSUED FOR 100% DD
C.	JUNE 17, 2022	ISSUED DP R1

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Beaty
Biodiversity
Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

Materials Plan
Level 1

SHEET

L1.11

COURTYARD PAVING / MATERIAL LEGEND

- CONCRETE PAVERS
- NATURAL STONE SLABS
- REPURPOSED METAL GRATE

SITE FURNISHING LEGEND

- 2 (T)
8 (C)

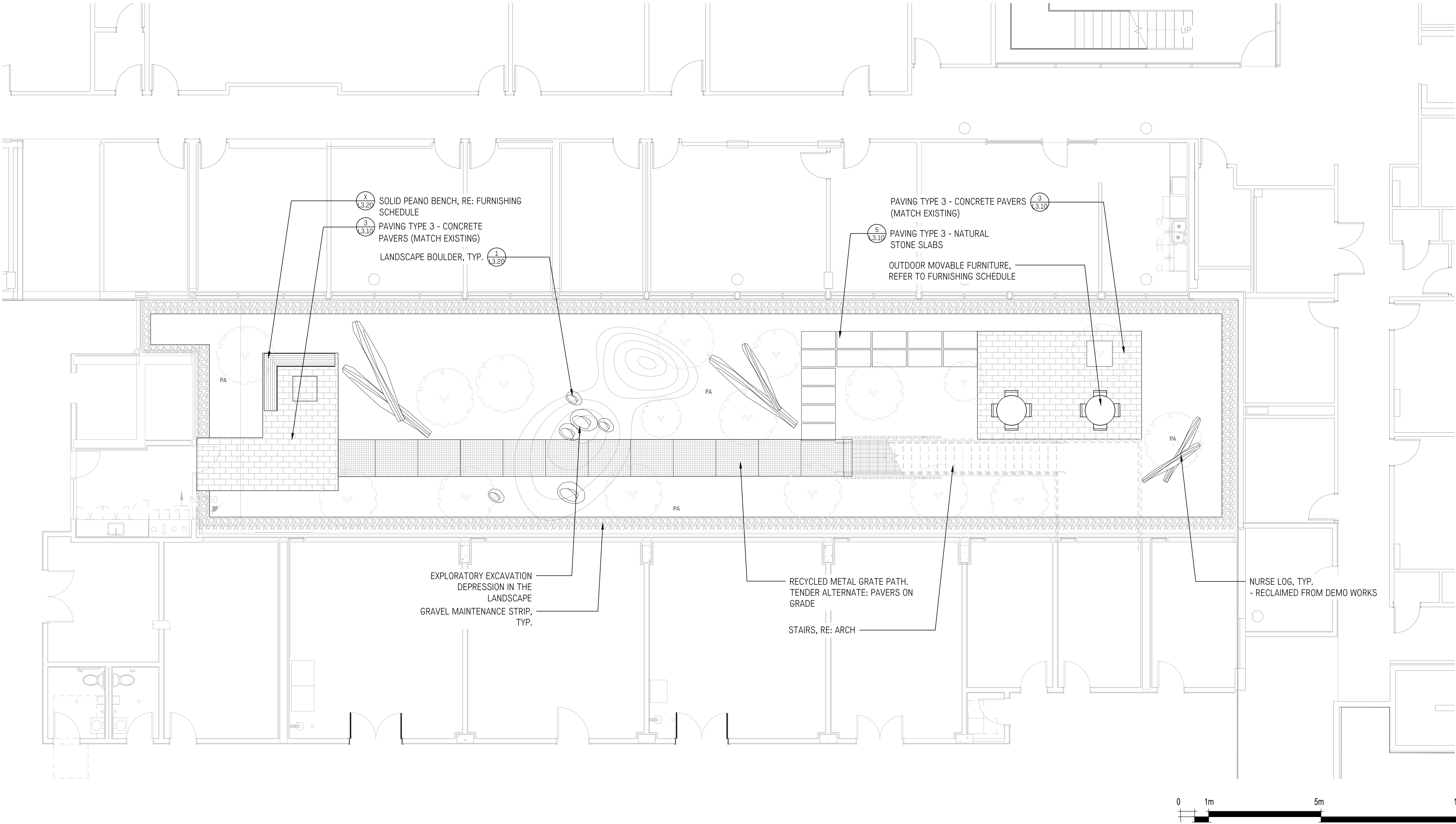
PARC CENTRE 30" ROUND TABLE
AND PARC CENTRE CHAIRS WITH
ARMS, AS SUPPLIED BY LANDSCAPE
FORMS - POWDER COAT, COLOUR
TBD
- 2

SOLID PEANO BENCH, AS SUPPLIED
BY STREETLIFE - POWDER COAT,
COLOUR TBD
SIZE: 2019mm x 460mm x 470MM
2034mm x 460mm x 470mm
- 1

SOLID PEANO TABLE, AS SUPPLIED
BY STREETLIFE - POWDER COAT
BASE, COLOUR TBD

MATERIALS PLAN NOTES

1. REFER TO DETAILS AND SECTIONS FOR ALL LANDSCAPE IMPROVEMENTS;
2. REFER TO ELECTRICAL FOR SITE LIGHTING INFORMATION;
3. REFER TO UNIVERSITY OF BRITISH COLUMBIA STANDARDS FOR WORK ON TYPICAL SIDEWALKS;
4. TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH UNIVERSITY OF BRITISH COLUMBIA TO ENSURE SAFE ROOT ZONES OF RETAINED TREES. METHODS OF TREE PROTECTION FOR STREET TREES TO BE APPROVED BY UNIVERSITY OF BRITISH COLUMBIA;
5. BOULDER PLACEMENT: COORDINATE REVIEW, SELECTION, AND PLACEMENT WITH LANDSCAPE ARCHITECT.



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PROJECT CODE
2122
SCALE
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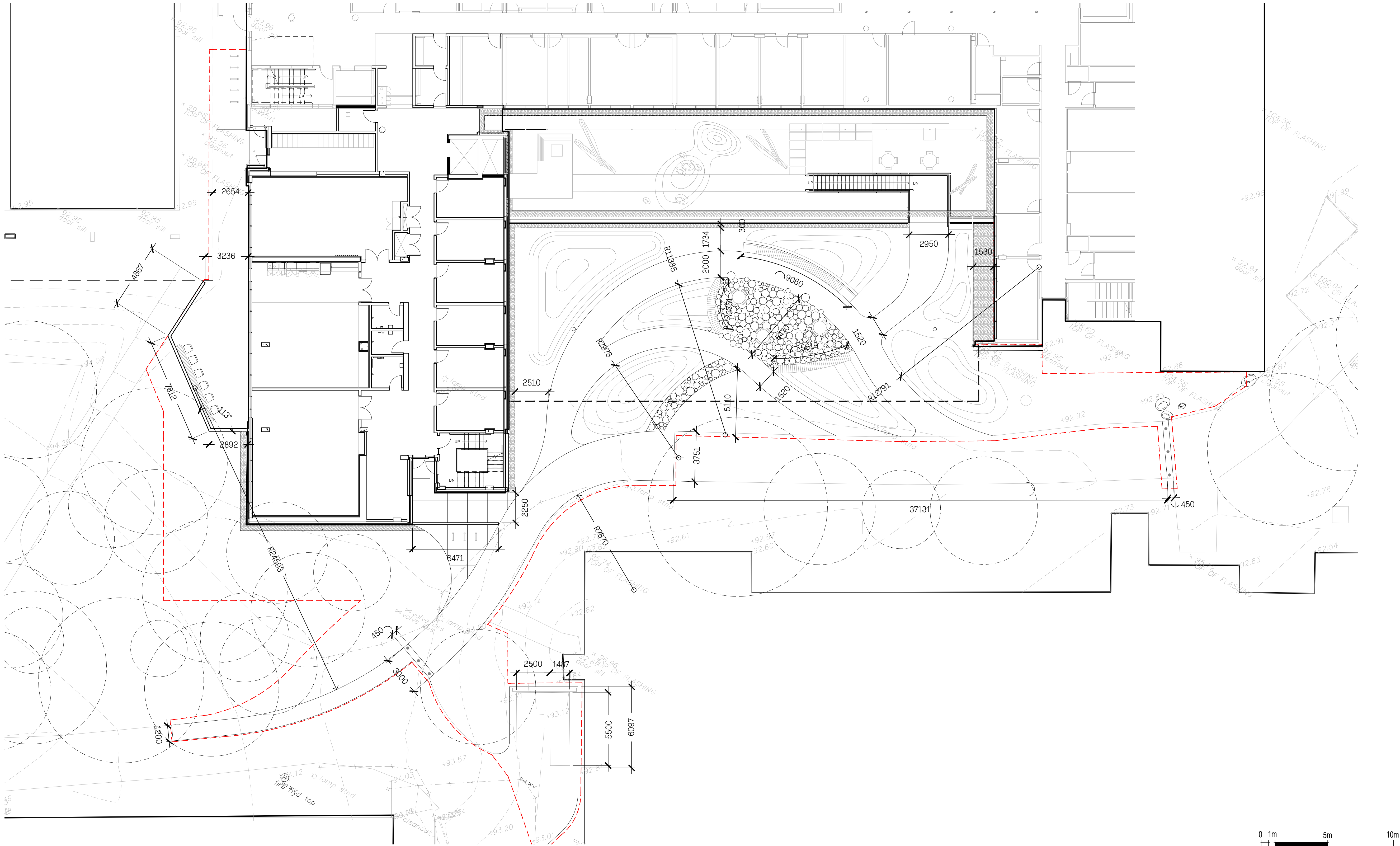
Material Plan
Basement Level

SHEET

L1.12

LAYOUT PLAN NOTES

1. ALL DIMENSIONS ARE NOMINAL; DIMENSIONS ARE BASED ON ARCHITECTURAL GRID LINES;
2. REFER TO GRADING PLAN FOR HORIZONTAL CONTROL OF PAVING/LANDSCAPE AREAS;
3. ALL SITE FURNISHING LOCATIONS TO BE CONFIRMED WITH LANDSCAPE ARCHITECT ON SITE PRIOR IN INSTALLATION;
4. CONFIRM SAWCUT PATTERN ONSITE WITH LANDSCAPE ARCHITECT.



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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

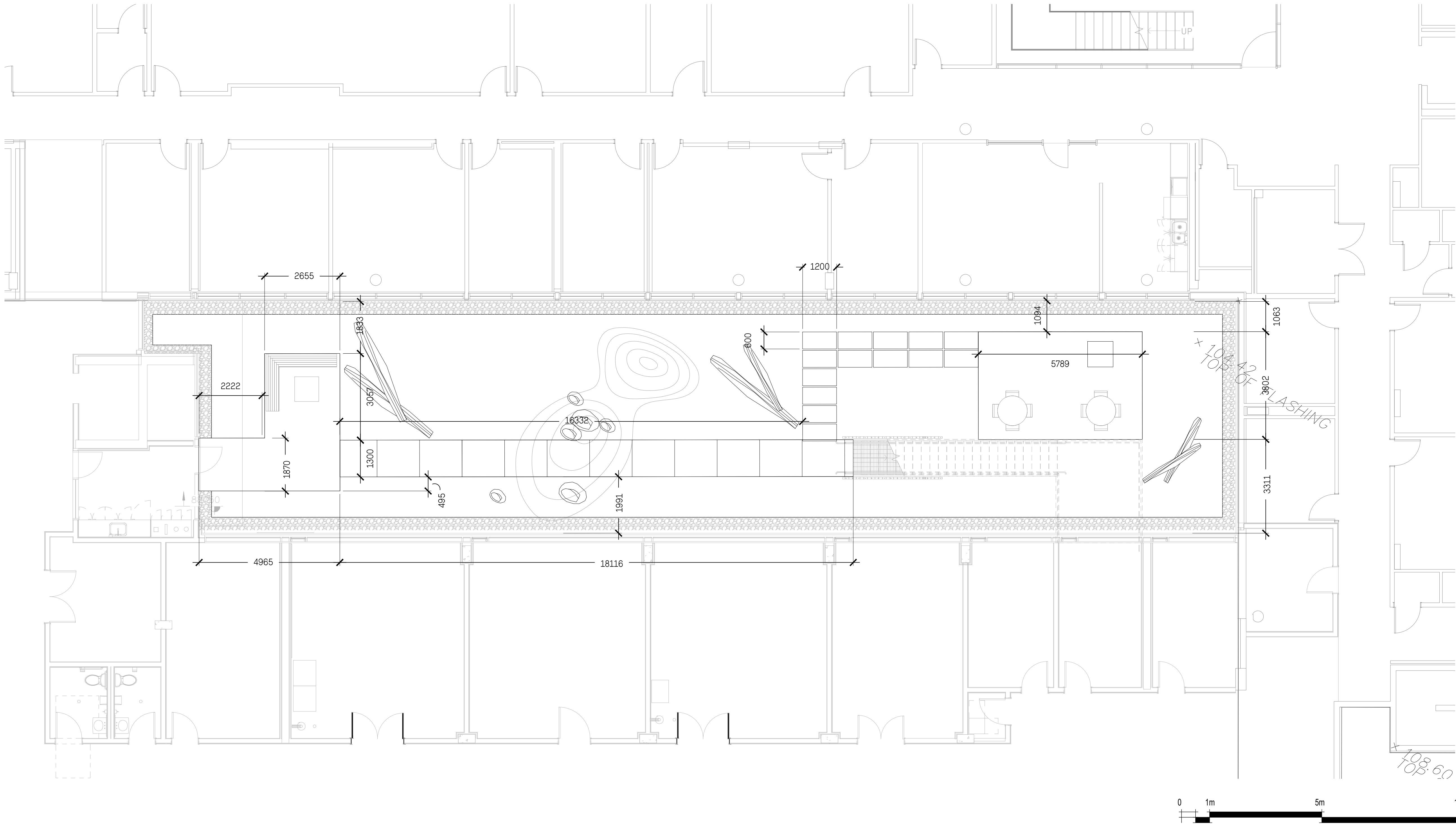
Layout Plan Level 1

SHEET

L1.21

LAYOUT PLAN NOTES

1. ALL DIMENSIONS ARE NOMINAL; DIMENSIONS ARE BASED ON ARCHITECTURAL GRID LINES;
2. REFER TO GRADING PLAN FOR HORIZONTAL CONTROL OF PAVING/LANDSCAPE AREAS;
3. ALL SITE FURNISHING LOCATIONS TO BE CONFIRMED WITH LANDSCAPE ARCHITECT ON SITE PRIOR IN INSTALLATION;
4. CONFIRM SAWCUT PATTERN ONSITE WITH LANDSCAPE ARCHITECT.



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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

Layout Plan Basement Level

SHEET

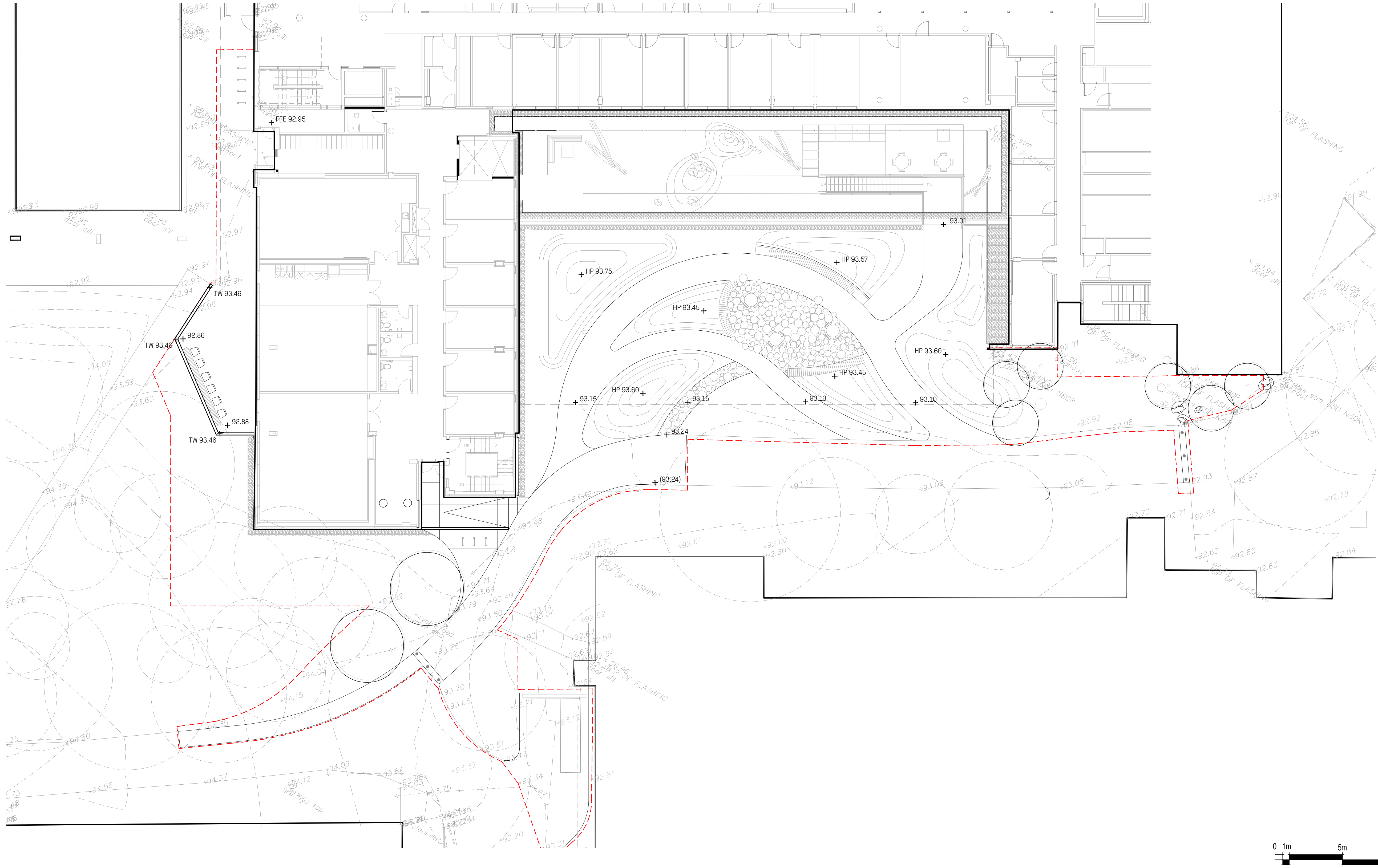
L1.22

GRADING PLAN NOTES

- ALL ELEVATIONS ARE NOMINAL AND ARE BASED ON SURVEY AND ELEVATIONS PROVIDED BY CIVIL. CONTRACTOR TO VERIFY ALL SPOT ELEVATIONS PRIOR TO STARTING CONSTRUCTION;
- CONTRACTOR TO REFER TO CIVIL FOR ALL SITE RELATED GRADING AND DRAINAGE;
- ALL PROPOSED ELEVATIONS ARE TO TOP OF FINISHED GRADE UNLESS NOTED OTHERWISE;
- ALL UTILITY COVERS INSIDE LANDSCAPE AREA TO BE ADJUSTED TO FINAL GRADE;
- CONDUCT GRADING START UP MEETING WITH LANDSCAPE ARCHITECT IN FIELD TO CONFIRM GRADING DESIGN.

GRADING LEGEND

PROPOSED ELEVATION	FINISH FLOOR ELEVATION	TOP OF CURB
TOP OF WALL	TOP OF BENCH	BOTTOM OF CURB
BOTTOM OF WALL	TOP OF STAIRS	DIRECTION OF SLOPE
TOP OF FINISHED GRADE	BOTTOM OF STAIRS	EXISTING SPOT ELEVATION AS PER SURVEY
PERFORATED DRAIN PIPE	DRAIN PIPE	TRENCH DRAIN



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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

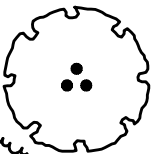
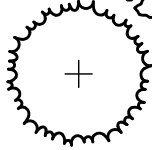


















Grading Plan Site Plan

















SHEET

L1.31



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	AC	6	Acer circinatum / Vine Maple	2m ht.	
	PD2	3	Pseudotsuga menziesii / Douglas Fir	6cm cal.	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	Ba	8	Berberis aquifolium / Oregon Grape	#3 Pot	
	Bn	6	Berberis nervosa / Cascade Barberry	#2 Pot	
	Cf3	6	Cotoneaster franchetii / Orange Cotoneaster	#3 Pot	
	Lc2	7	Lonicera ciliosa / Orange Honeysuckle	#3 Pot	
	Li	13	Lonicera involucrata / Twinberry	#3 Pot	
	Oc	4	Oemleria cerasiformis / Osoberry	#5 Pot	
	Rc	15	Rhododendron albiflorum / Cascade Azalea	#3 Pot	
	Rg	5	Rhododendron groenlandicum	#5 Pot	
	Rs	7	Ribes sanguineum / Red Flowering Currant	#5 Pot	
	Rn	7	Rosa nutkana / Nootka Rose	#5 Pot	
	Rt	25	Rubus parviflorus / Thimbleberry	#3 Pot	
	Rs2	18	Rubus spectabilis / Salmonberry	#3 Pot	
	Sm	24	Solidago multiradiata / Rocky Mountain Goldenrod	#2 Pot	
	Sa	3	Symphoricarpos albus / Common White Snowberry	#3 Pot	
	Vc	23	Vaccinium caespitosum / Dwarf Blueberry	#1 Pot	
	Vt	29	Vaccinium ovatum 'Thunderbird' / Evergreen Huckleberry	#3 Pot	
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	Cb	41	Calamagrostis canadensis / Bluejoint Grass	#3 Pot	
	MI	61	Miscanthus sinensis 'Little Kitten' / Little Kitten Eulalia Grass	#2 Pot	

PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	Am2	9	Achillea millefolium / Common Yarrow	#1 Pot	
	Au	34	Agastache urticifolia / Nettleleaf Giant Hyssop	#1 Pot	
	Aa3	20	Astilbe x arendsii / Astilbe	#1 Pot	
	Cq	6	Camassia quamash / Small Camas	#1 Pot	
	Cr	33	Campanula rotundifolia / Harebell	#1 Pot	
	Da	22	Digitalis purpurea 'Alba' / White Foxglove	#1 Pot	
	Db	55	Disporopsis pernyi 'Bill Baker' / Bill Baker Evergreen Solomon's Seal	#1 Pot	
	Ea	30	Epilobium angustifolium / Fireweed	#1 Pot	
	Fv	15	Fragaria virginiana / Wild Strawberry	#1 Pot	
	Hg	32	Heuchera glabra / Alpine Coral Bells	#1 Pot	
	Hp	26	Heuchera micrantha 'Painted Lady' / Painted Lady Crevice Alumroot	#1 Pot	
	Hd	27	Holodiscus discolor / Ocean-spray	#1 Pot	
	Lc	4	Lilium columbianum / Tiger Lily	#1 Pot	
	Lb	29	Linnaea borealis / Twinflower	#1 Pot	
	Ly	46	Lupinus polyphyllus 'Gallery Yellow' / Dwarf Yellow Lupine	#1 Pot	
	Pd	15	Penstemon davidsonii / Davidson's Penstemon	#2 Pot	

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

Beaty
Biodiversity
Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH

TRUE NORTH

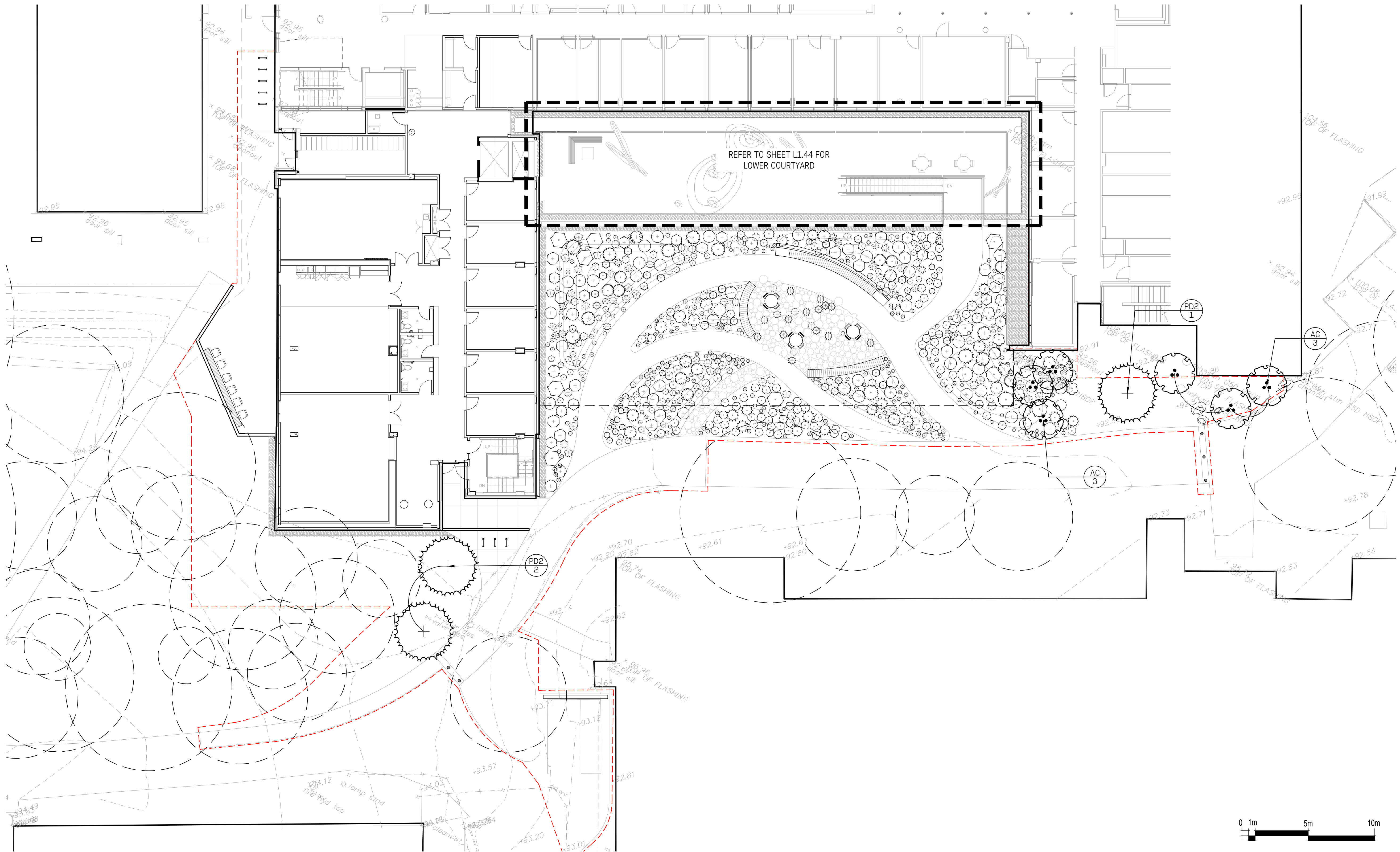
PROJECT CODE
2122
SCALE



Plant Schedule
Level 1

SHEET

L1.41



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PROJECT CODE
2122
SCALE
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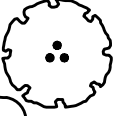


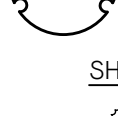
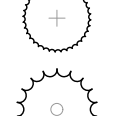
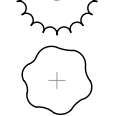
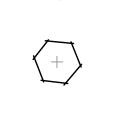
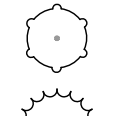
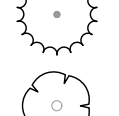
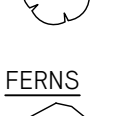
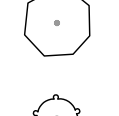
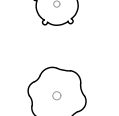
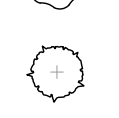



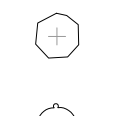
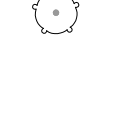


Planting Plan
Level 1

SHEET

L1.42

ISSUES + REVISIONS			NO	DATE	DESCRIPTION
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PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	COMMENTS	REMARKS
	AC	10	Acer circinatum / Vine Maple	2m ht.		
	AJ	1	Acer japonicum 'Aconitifolium' / Fernleaf Fullmoon Maple	4cm cal.		
	BP	2	Betula papyrifera / Paper Birch	2m ht.		
	CN	3	Cornus nuttallii / Pacific Dogwood	3.0m ht.		
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	COMMENTS	REMARKS
	Dc	13	Dryopteris cycadina / Shaggy Shield Fern	#2 Pot		
	Dw	6	Dryopteris wallichiana / Wallich's Wood Fern	#2 Pot		
	Gs	7	Gaultheria shallon / Salal	#2 Pot		
	Gd2	24	Gymnocarpium disjunctum / Pacific Oak Fern	#1 Pot		
	Lg	5	Ledum groenlandicum / Labrador Tea	#2 Pot		
	Oc	4	Oemleria cerasiformis / Osoberry	#5 Pot		
	Sr2	21	Sarcococca ruscifolia / Fragrant Sweetbox	#3 Pot		
FERNS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	COMMENTS	REMARKS
	Aa4	13	Adiantum aleuticum / Western Maidenhair Fern	#2 Pot		
	Bs	15	Blechnum spicant / Deer Fern	#2 Pot		
	Cf2	13	Cyrtomium falcatum / Holly Fern	#2 Pot		
	De	27	Dryopteris erythrosora / Autumn Fern	#2 Pot		
	Pl	6	Polypodium glycyrrhiza / Licorice Fern	#3 Pot		
	Pm	53	Polystichum munitum / Western Sword Fern	#3 Pot	Well Established	
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	COMMENTS	REMARKS
	At	12	Achlys triphylla / Vanilla Leaf	#1 Pot		
	As2	41	Asarum splendens / Wild Ginger	#1 Pot		
	Db	81	Disporopsis pernyi 'Bill Baker' / Bill Baker Evergreen Solomon's Seal	#1 Pot		

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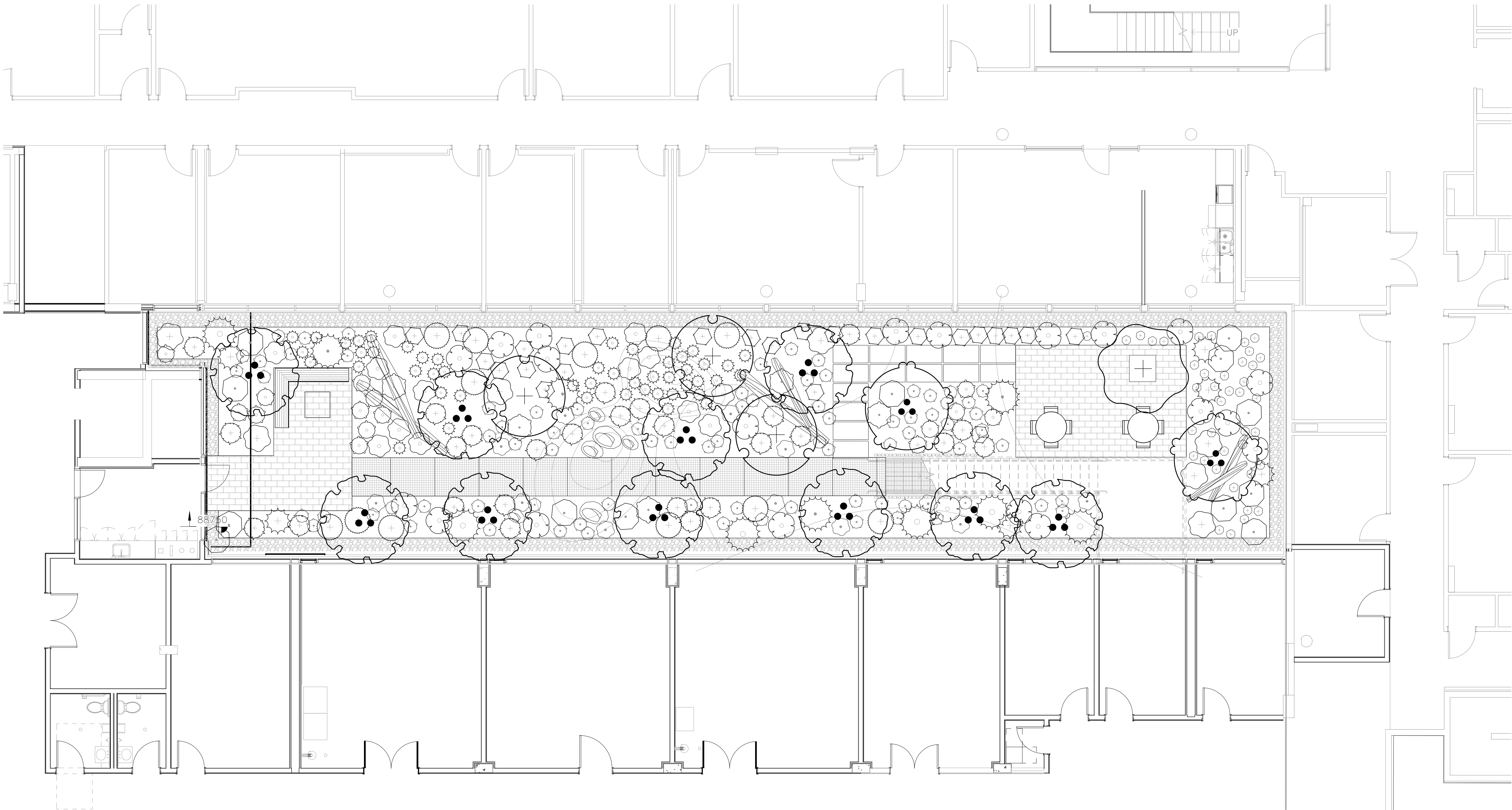
Planting Schedule
Basement Level

SHEET

L1.43

PLANTING PLAN NOTES

1. ALL PLANT MATERIAL TO BCNTA AND BCSLA STANDARDS. REFER TO THE BCSLA LANDSCAPE STANDARD, LATEST EDITION;
2. AREA OF SEARCH FOR PLANT MATERIAL: PACIFIC NORTHWEST, INCLUDING BRITISH COLUMBIA, WASHINGTON AND OREGON. FURTHER SEARCH TO BE TAKEN IF NECESSARY;
3. CONFIRM TREE PLANTING LOCATIONS AND PLANTING LAYOUT WITH LANDSCAPE ARCHITECT ON SITE;
4. NO SUBSTITUTIONS OF ANY PLANT MATERIAL WILL BE APPROVED WITHOUT SUBMITTAL REVIEW AND APPROVAL BY THE CLIENT/LANDSCAPE ARCHITECT;
5. CONFIRM WITH LANDSCAPE ARCHITECT THE PRE-PURCHASE OF ANY PLANT MATERIALS;
6. ALL TREE SOIL VOLUMES TO MEET UBC STANDARDS; TREES TO BE PLANTED IN MIN. 600MM (24") SOIL DEPTH AND TWICE THE DIAMETER OF THE ROOTBALL AROUND EACH TREE. SHRUBS MIN 450MM (18") SOIL DEPTH. GROUNDCOVER MIN 300MM (12") SOIL DEPTH. LAWNS MIN 150MM (6") SOIL DEPTH.
7. ROOT BARRIERS SHALL BE 2400mm LONG AND 450mm DEEP. PLANTING DEPTH OF ROOTBALL MUST BE BELOW SIDEWALK GRADE. CALL UBC, FOR INSPECTION AFTER TREE PLANTING COMPLETION;
8. REFER TO CIVIL AND MEP FOR DRAINS.



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2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

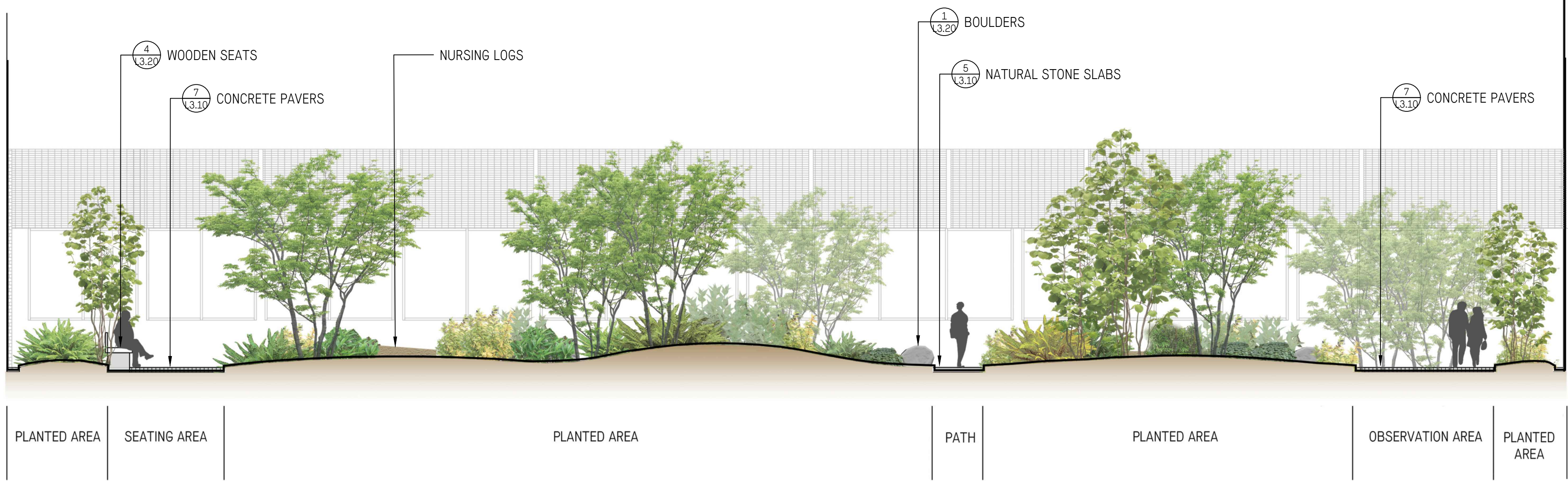
PROJECT CODE
2122
SCALE
1:200 m.

Planting Plan Basement Level

SHEET

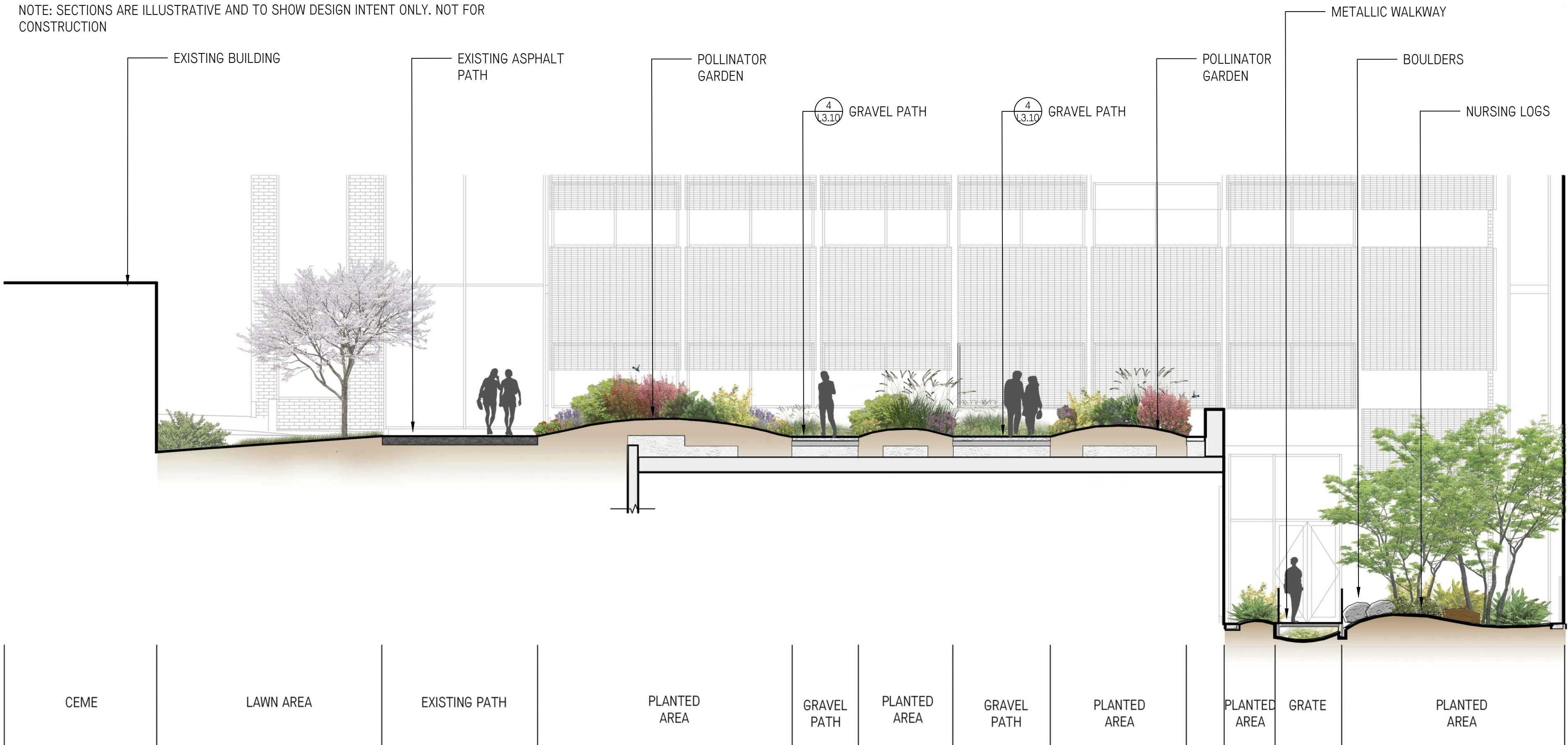
L1.44

NOTE: SECTIONS ARE ILLUSTRATIVE AND TO SHOW DESIGN INTENT ONLY. NOT FOR CONSTRUCTION



1 SECTION A-A'
L2.01 1:75

NOTE: SECTIONS ARE ILLUSTRATIVE AND TO SHOW DESIGN INTENT ONLY. NOT FOR CONSTRUCTION



2 SECTION B-B'
L2.01 1:75



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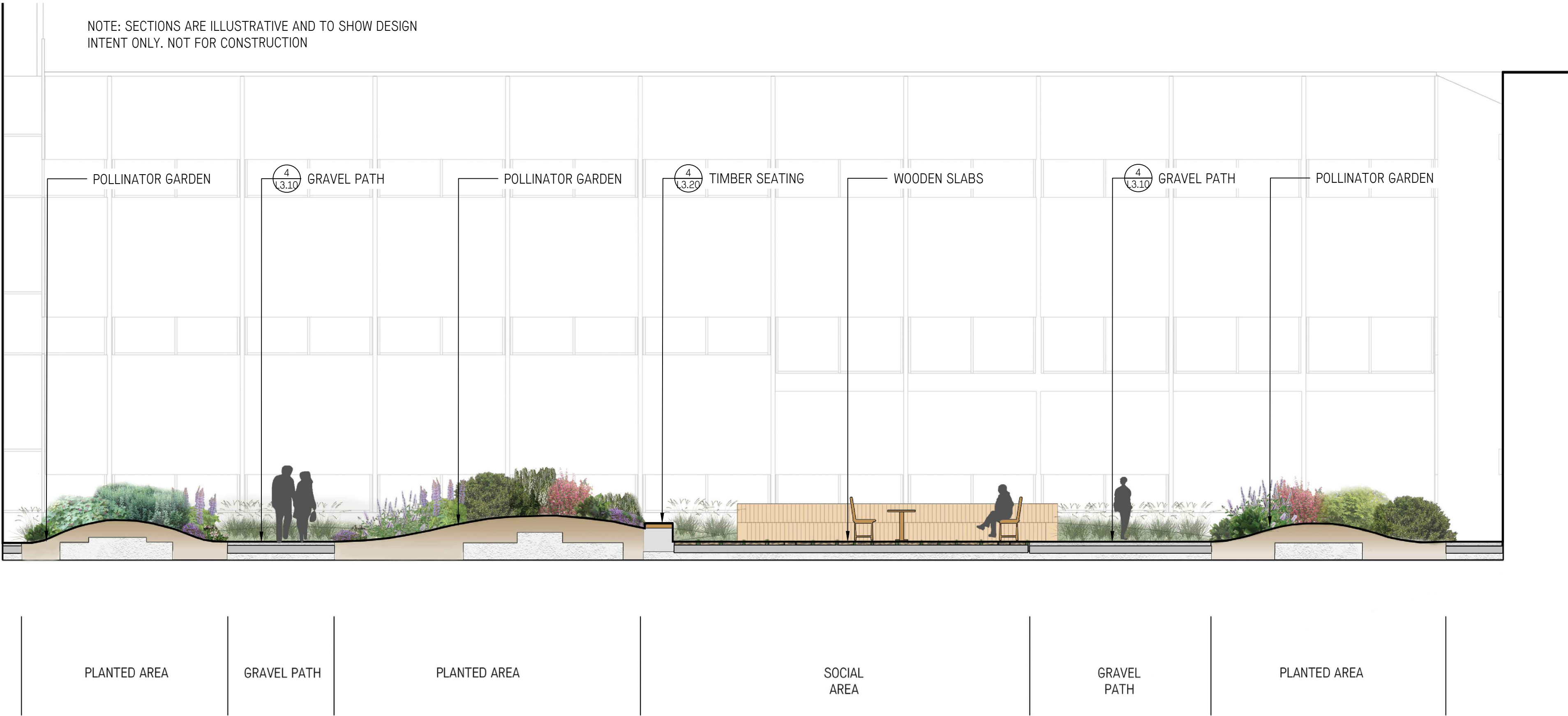
PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
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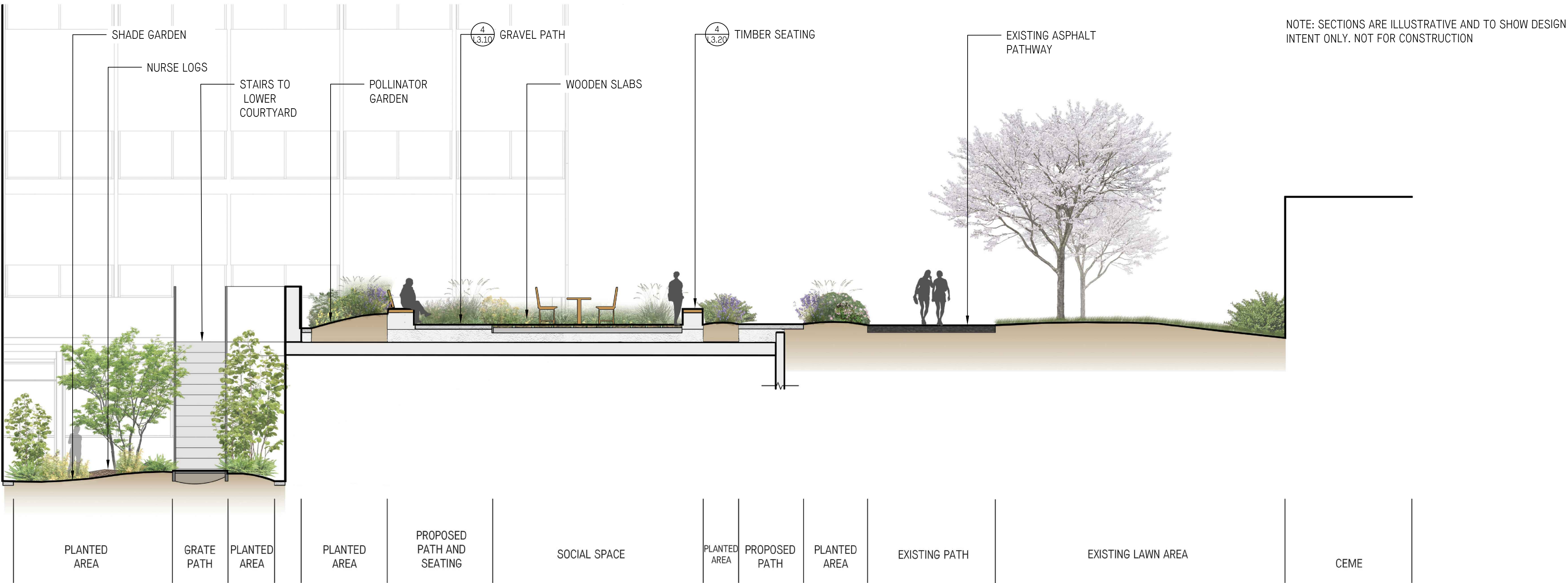
Sections

SHEET

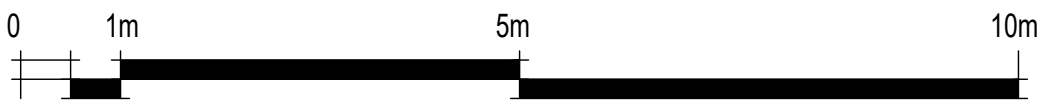
L2.01



1
L2.02
SECTION C-C'
1:75



2
L2.02
SECTION D-D'
1:75



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TRUE NORTH

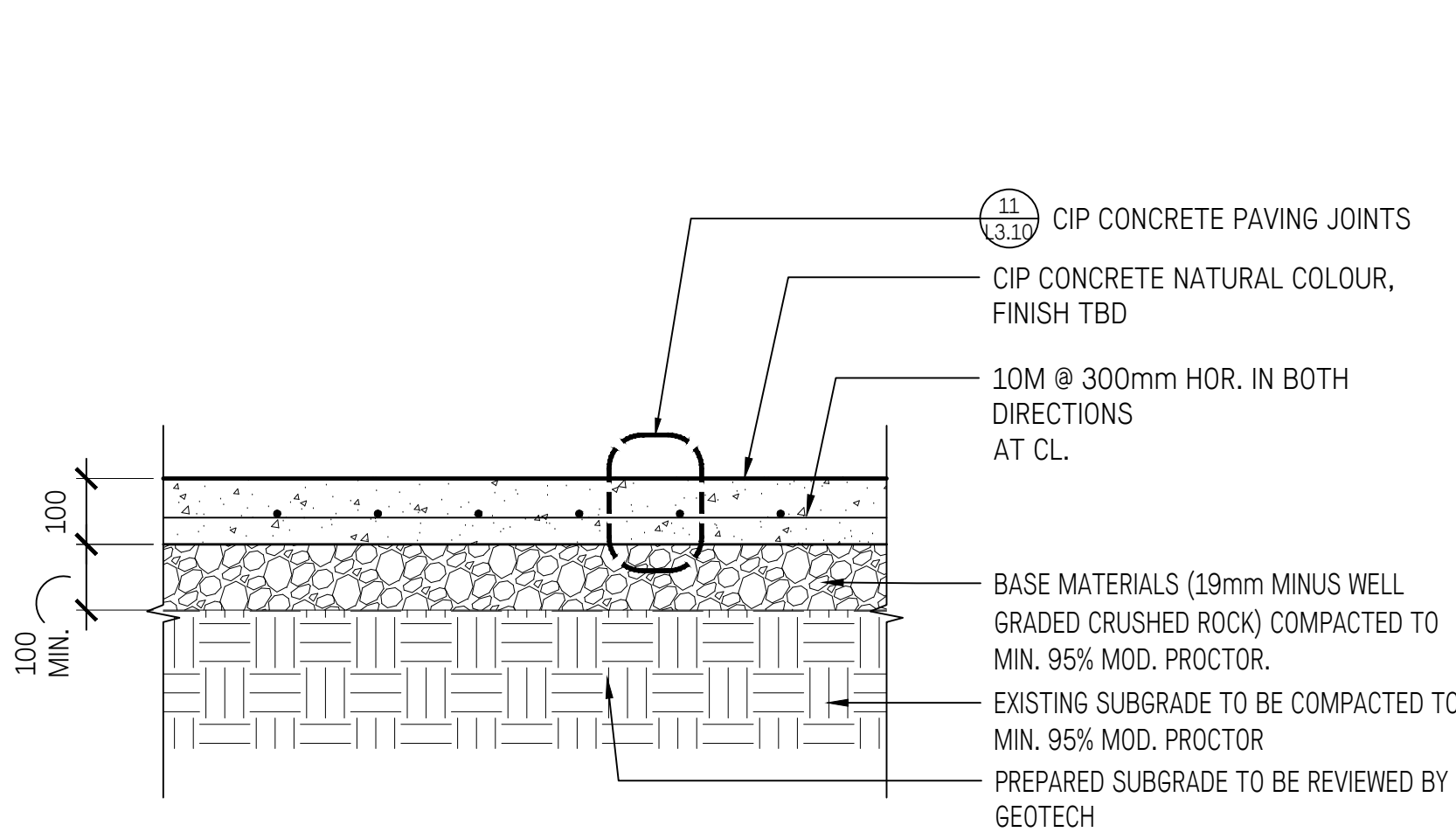
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Sections

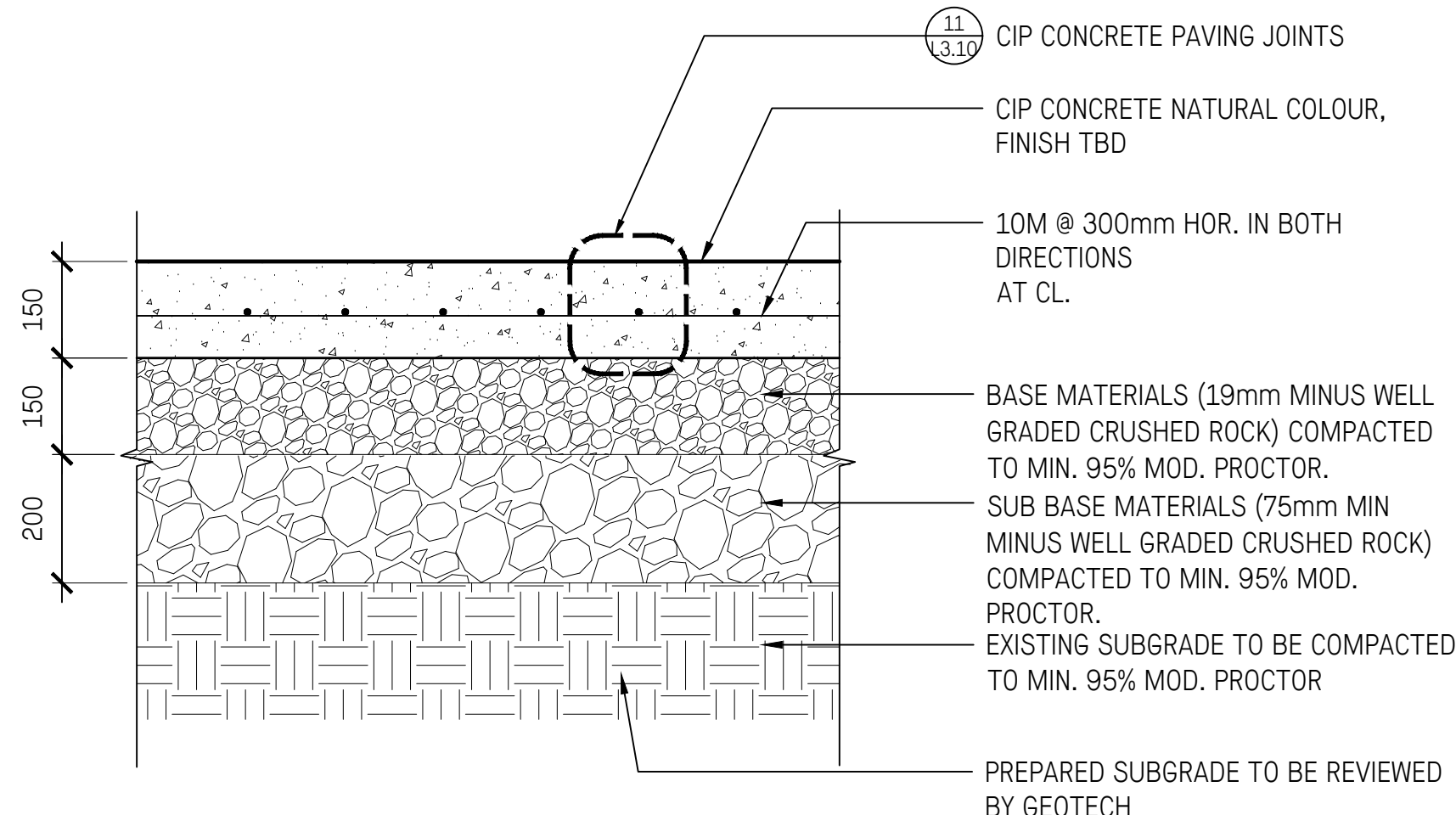
SHEET

L2.02



ON GRADE - PEDESTRIAN USE

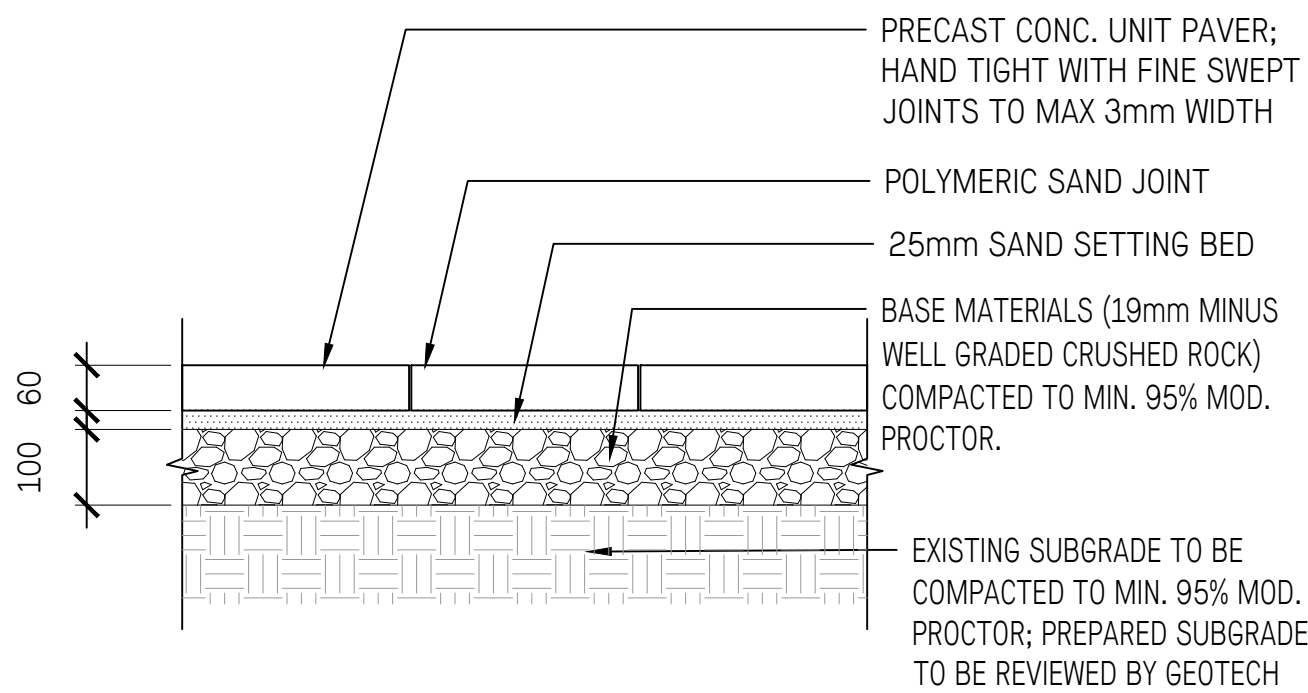
1 PAVING TYPE 1 - CIP CONCRETE ON GRADE
1:10



ON GRADE - VEHICULAR USE

2 PAVING TYPE 2 - CIP CONCRETE ON GRADE
1:10

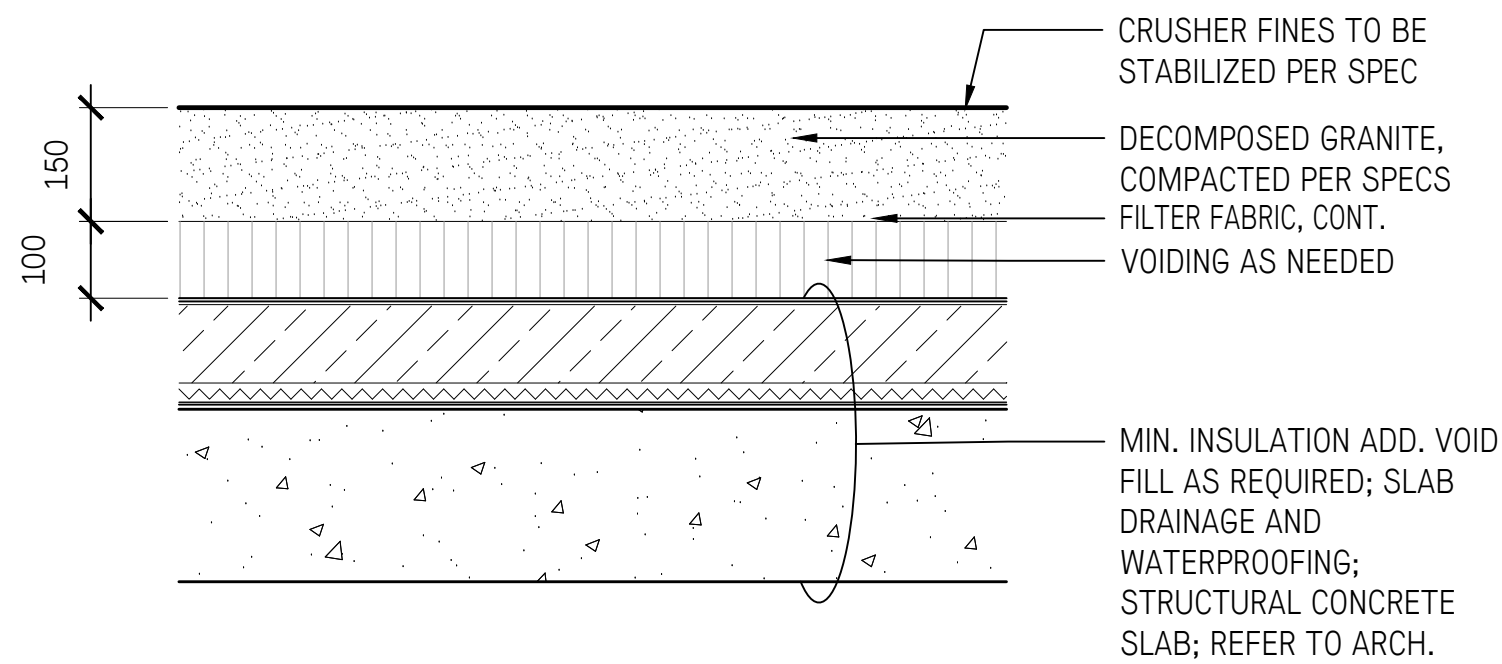
- NOTES:
1. ORIGIN OF PAVING PATTERN TO BE CAREFULLY CONSIDERED, CONFIRM WITH LANDSCAPE ARCHITECT BEFORE CONSTRUCTION;
 2. PAVERS WILL NOT BE CUT SMALLER THAN 1/3 OF A UNIT.
 3. STOCKPILED PAVERS IN GOOD CONDITION MAY BE REUSED.



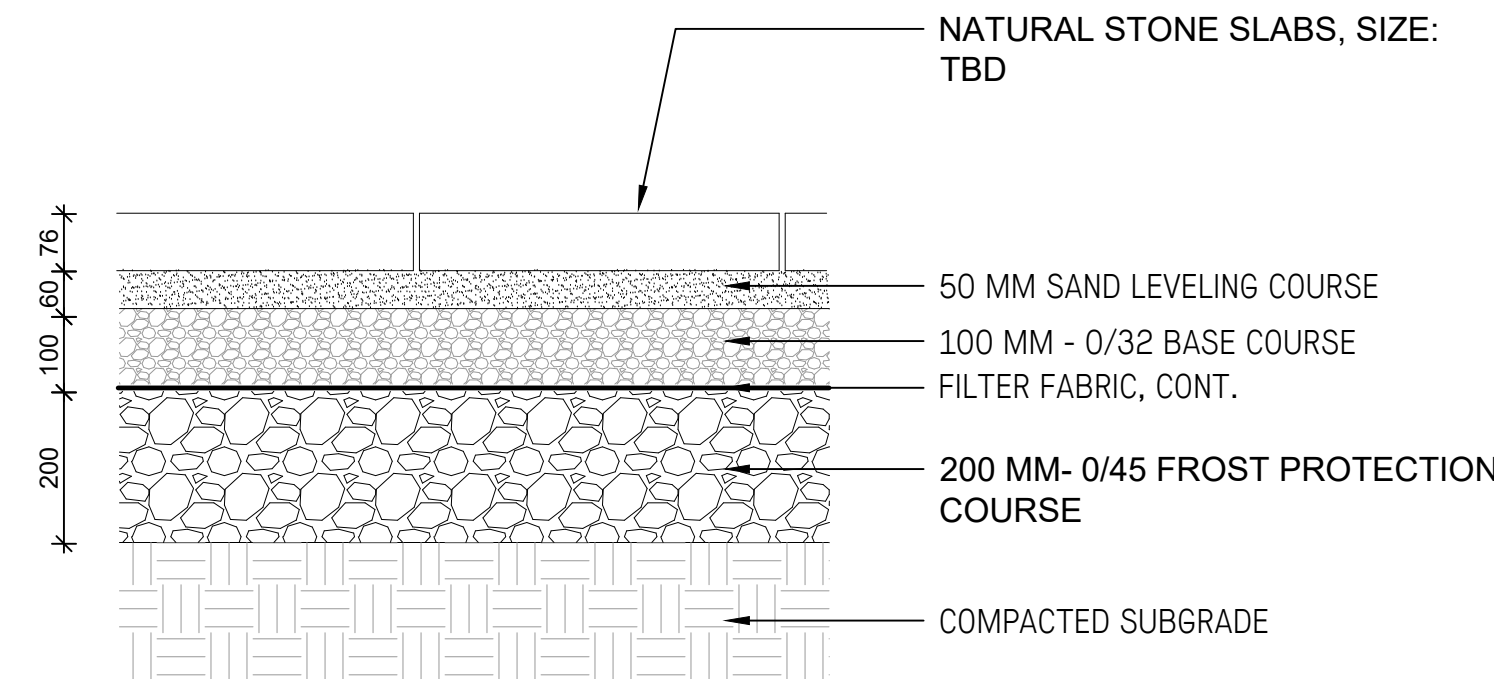
ON GRADE - PEDESTRIAN

3 PAVING TYPE 3 - CONCRETE PAVERS ON GRADE
1:10

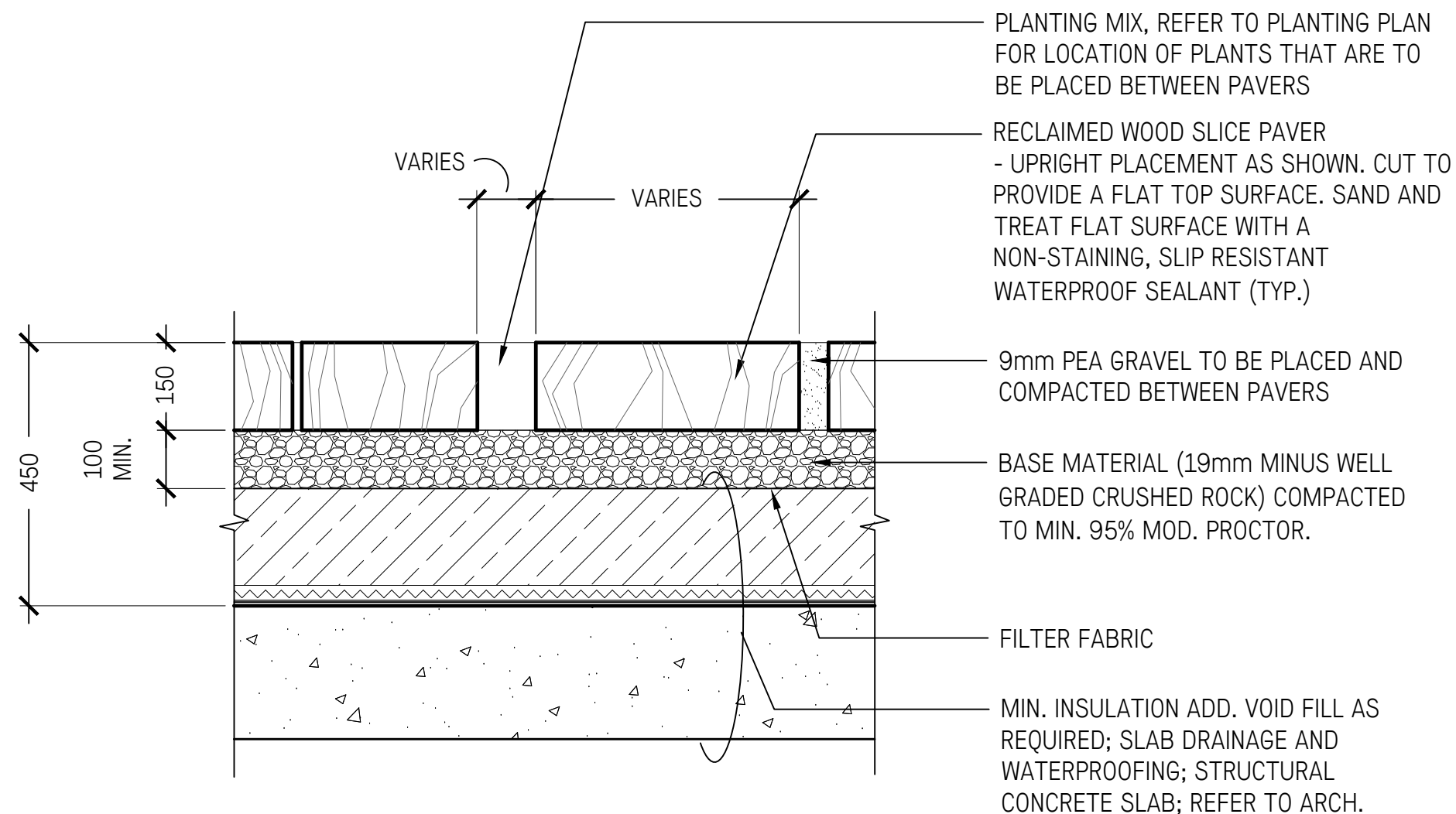
- NOTES:
1. RECLAIMED WOOD SLICE PAVERS TO BE COORDINATED WITH UBC AND THE PROJECT ARBORIST. INTENT IS FOR PAVERS TO BE FROM TREE THAT ARE TO BE REMOVED AS PART OF THE PROJECT WORKS.
 2. LOCATE WOOD SLICE PAVERS AS PER PLANS, MOCK-UP TO BE CONFIRMED ON-SITE WITH LANDSCAPE ARCHITECT.
 3. MIN. 50mm GAP BETWEEN PAVERS WHERE PLANTING IS NOT SPECIFIED.
 4. PAVERS TO BE SET FLUSH WITH ADJACENT GRADE AND PAVING.
 5. ALL PAVERS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



4 PAVING TYPE 4 - CRUSHER FINES ON SLAB
1:10



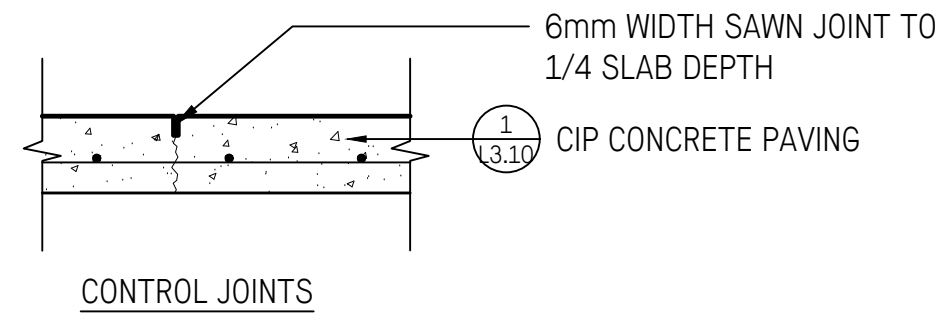
5 PAVING TYPE 5 - PAVERS ON GRADE
1:10



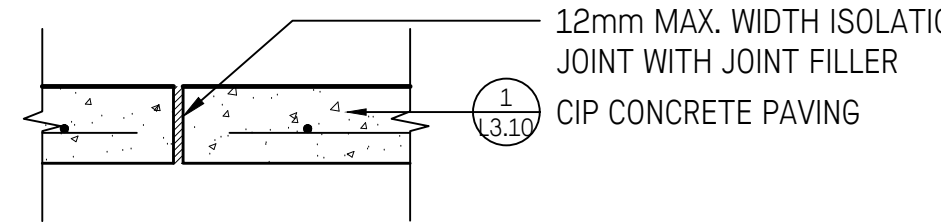
ON SLAB

6 WOOD SLICE PAVER
1:10

- NOTES:
1. CONSTRUCT ALL CONTROL JOINTS AT CONSISTENT WIDTH;
 2. CUT JOINTS BEFORE RANDOM CRACKING OCCURS;
 3. C-2 SAWCUT CONTROL JOINTS WITHIN 18 HOURS OF FINISHING SLABS REFER TO LAYOUT PLAN.

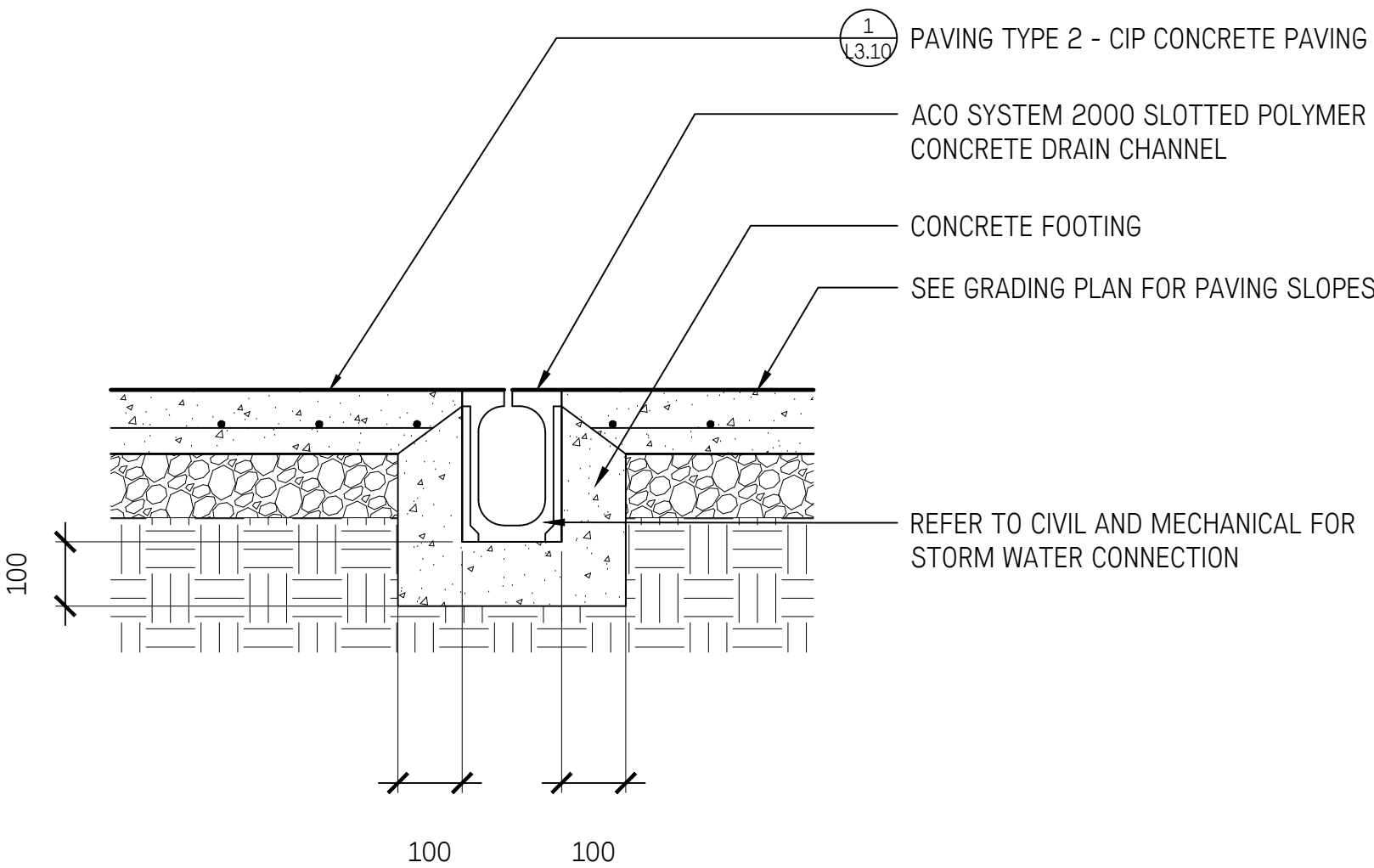


CONTROL JOINTS

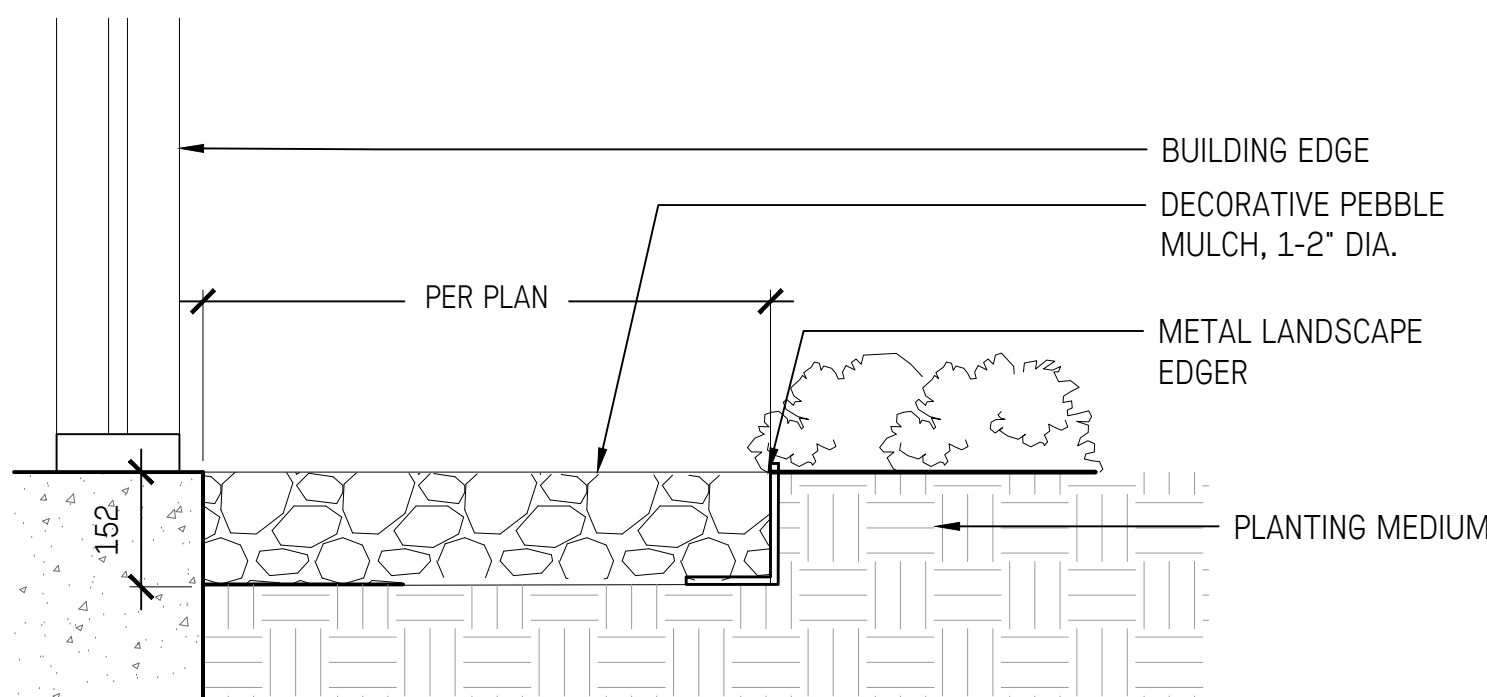


ISOLATION JOINTS

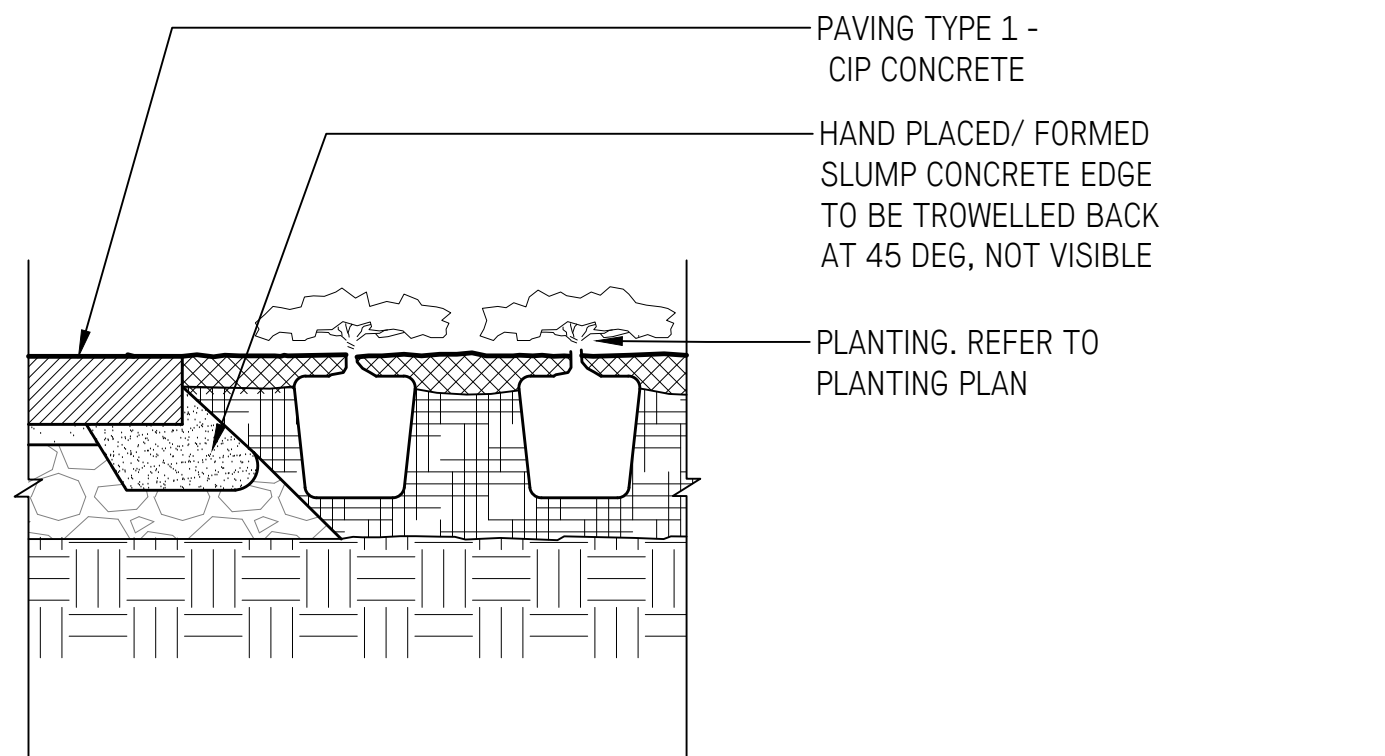
10 CIP CONCRETE PAVING JOINTS
1:10



7 TRENCH DRAIN
1:10



8 MAINTAINANCE GRAVEL STRIP
1:10



9 CONCRETE HIDDEN EDGE RESTRAINT AT PLANTING EDGE
1:10

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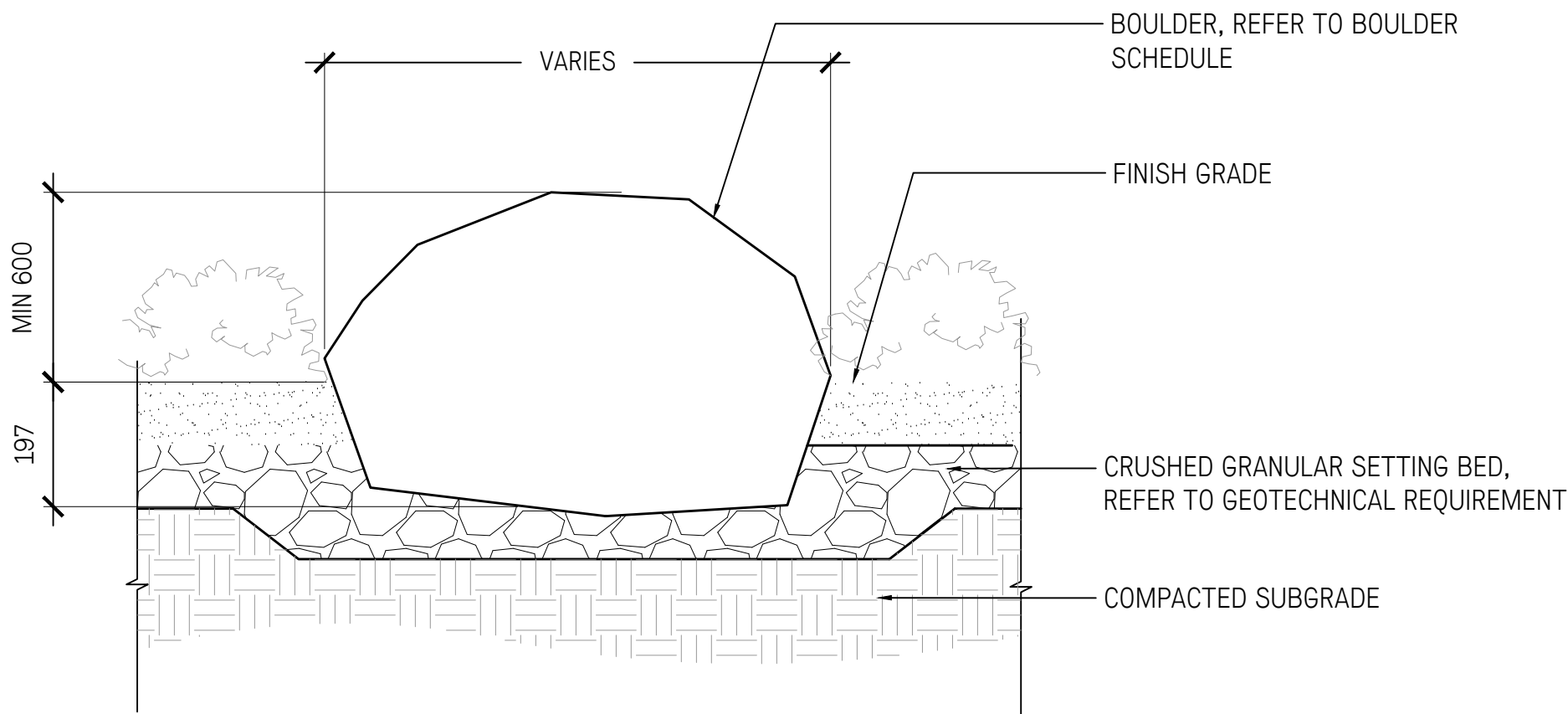
PROJECT CODE
2122
SCALE

Paving
Details

SHEET

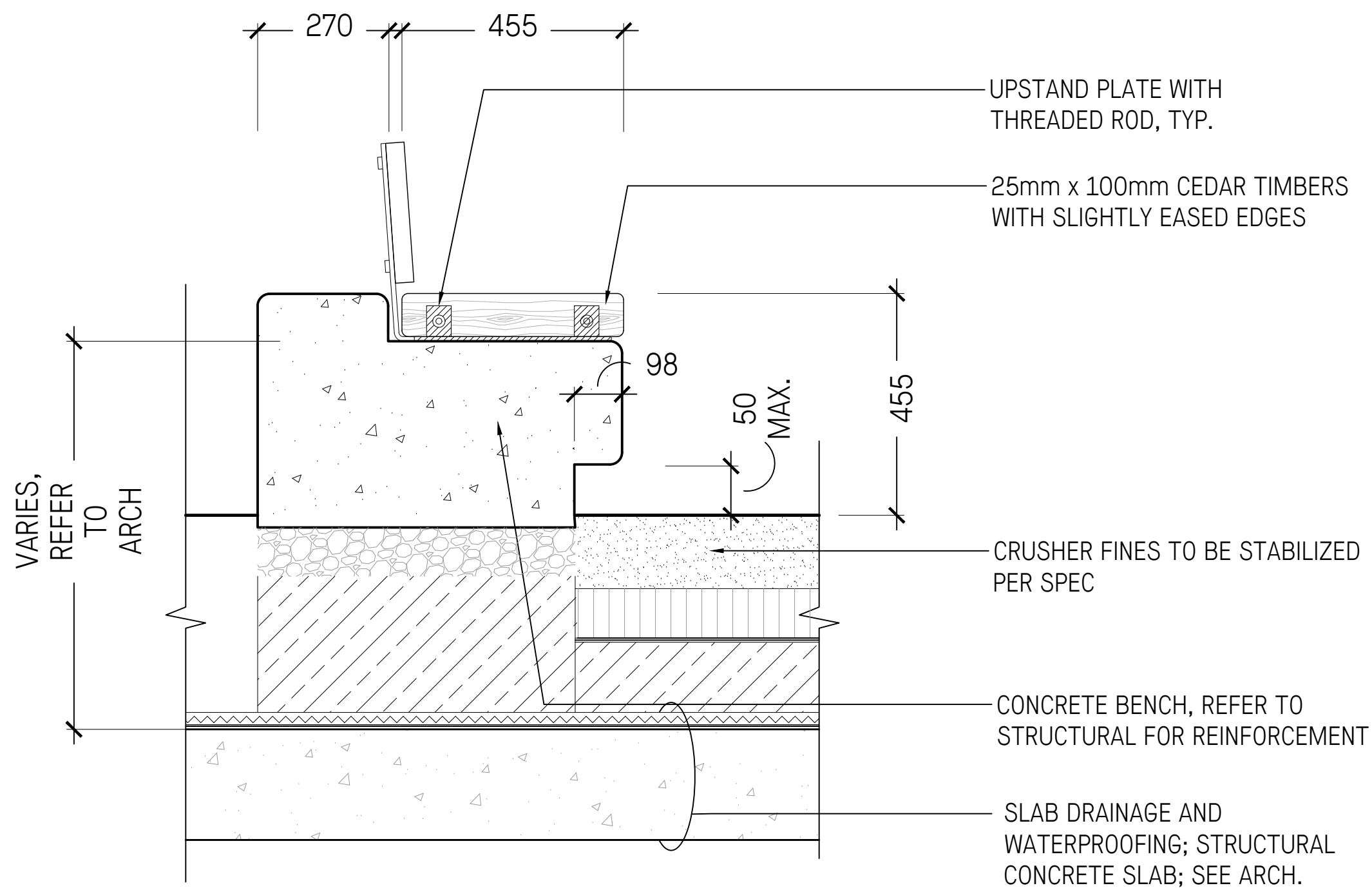
L3.10

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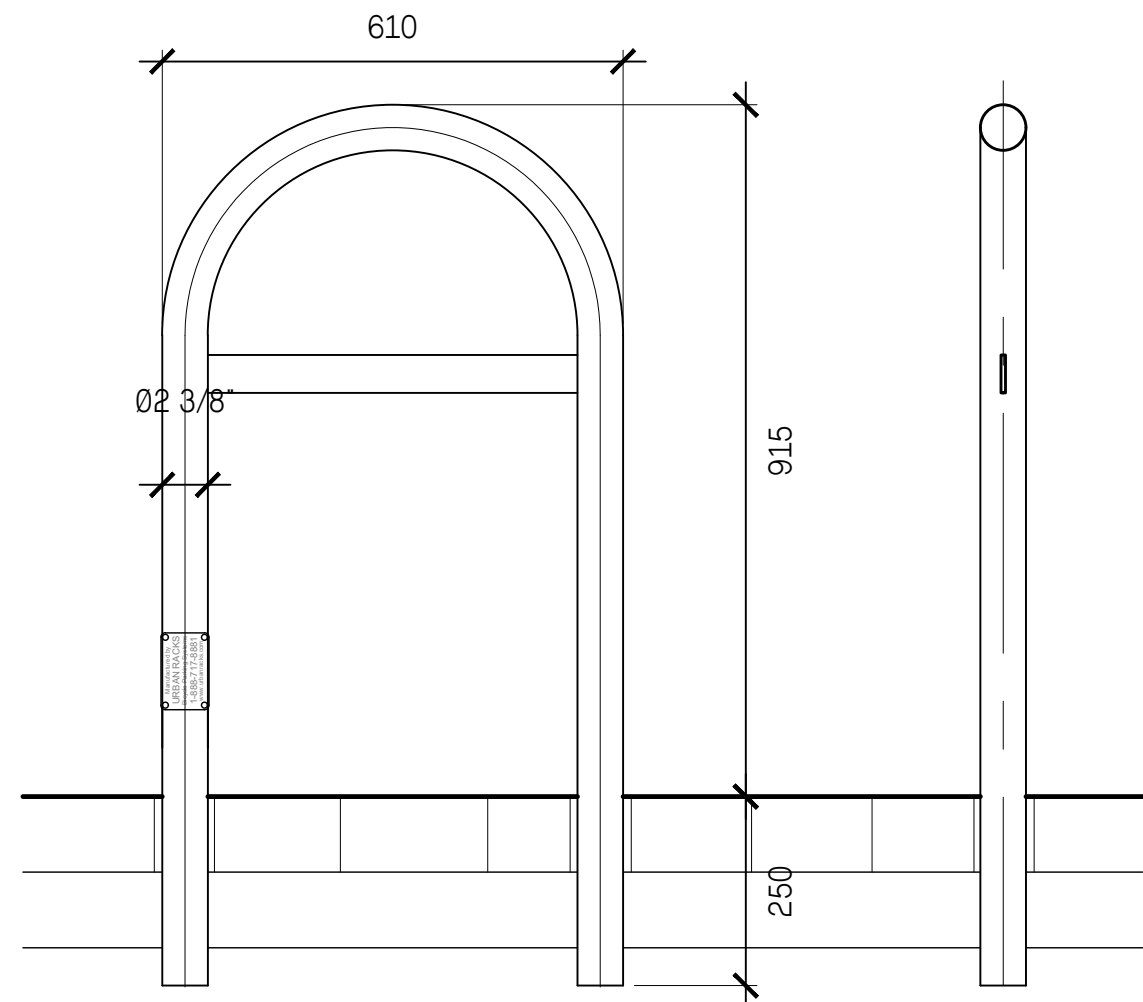


1 LANDSCAPE BOULDER
1:10

- NOTE:
1. SITE MEASUREMENTS REQUIRED TO CONFIRM AND VERIFY ALL DESIGN DRAWINGS;
 2. PROVIDE SHOP DRAWINGS FOR BENCH CONSTRUCTION AND ALL METAL COMPONENTS;
 3. WOOD TIMBERS: TIGHT-KNOT YELLOW OR RED CEDAR PLANED FOR SMOOTH FINISH, SLIGHTLY EASED EDGES. SEE SPECS FOR FINISH;
 4. USE HOT-DIPPED GALVANIZED STEEL FOR ALL HARDWARE UNLESS OTHERWISE NOTED;
 5. CONCRETE FINISH TO INCLUDE HONEYCOMB AND PITTING. CONTRACTOR TO PROVIDE A MOCK-UP FOR REVIEW;
 6. CONFIRM REINFORCEMENT WITH STRUCTURAL ENGINEER;



3 CUSTOM TIMBER BENCH
1:10



2 BIKE RACK
1:10

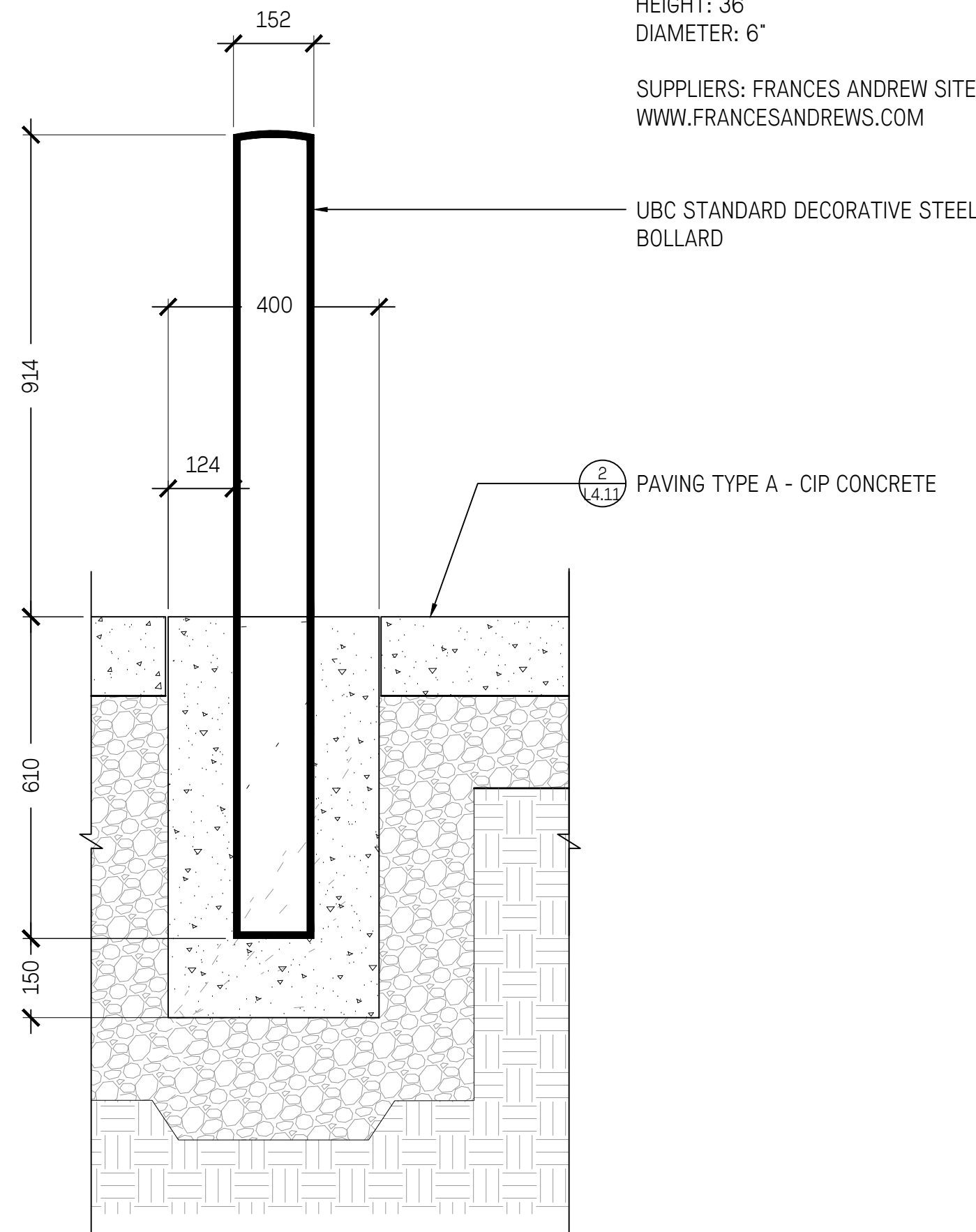
NOTES:

MODEL: UB1000-USX
MATERIAL: 2" SCHEDULE 40 STEEL PIPE WITH FLAT HORIZONTAL CROSS BAR
MOUNT: EMBEDDED INTO CONCRETE WITH 10" BELOW GRADE.
INSTALL PER MANUFACTURER'S INSTRUCTION.
FINISH: HOT-DIPPED GALVANIZED

SUPPLIER: URBAN RACKS 1-888-717-8881
WWW.URBANRACKS.COM

MODEL: SERIES 32 SB32-P1-UBC SMALL RADIUS
MATERIAL: STEEL TUBE HOUSING
MOUNTING: 6" SCHEDULE 40 STEEL PIPE, IN-GROUND 24" DEEP ON CONCRETE BASE - INSTALL PER MANUFACTURER'S INSTRUCTION
FINISH: UBC GREY
HEIGHT: 36"
DIAMETER: 6"

SUPPLIERS: FRANCES ANDREW SITE FURNISHINGS LTD.
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4 BOLLARDS
1:20

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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE

Site Furnishing
Details

SHEET

L3.20

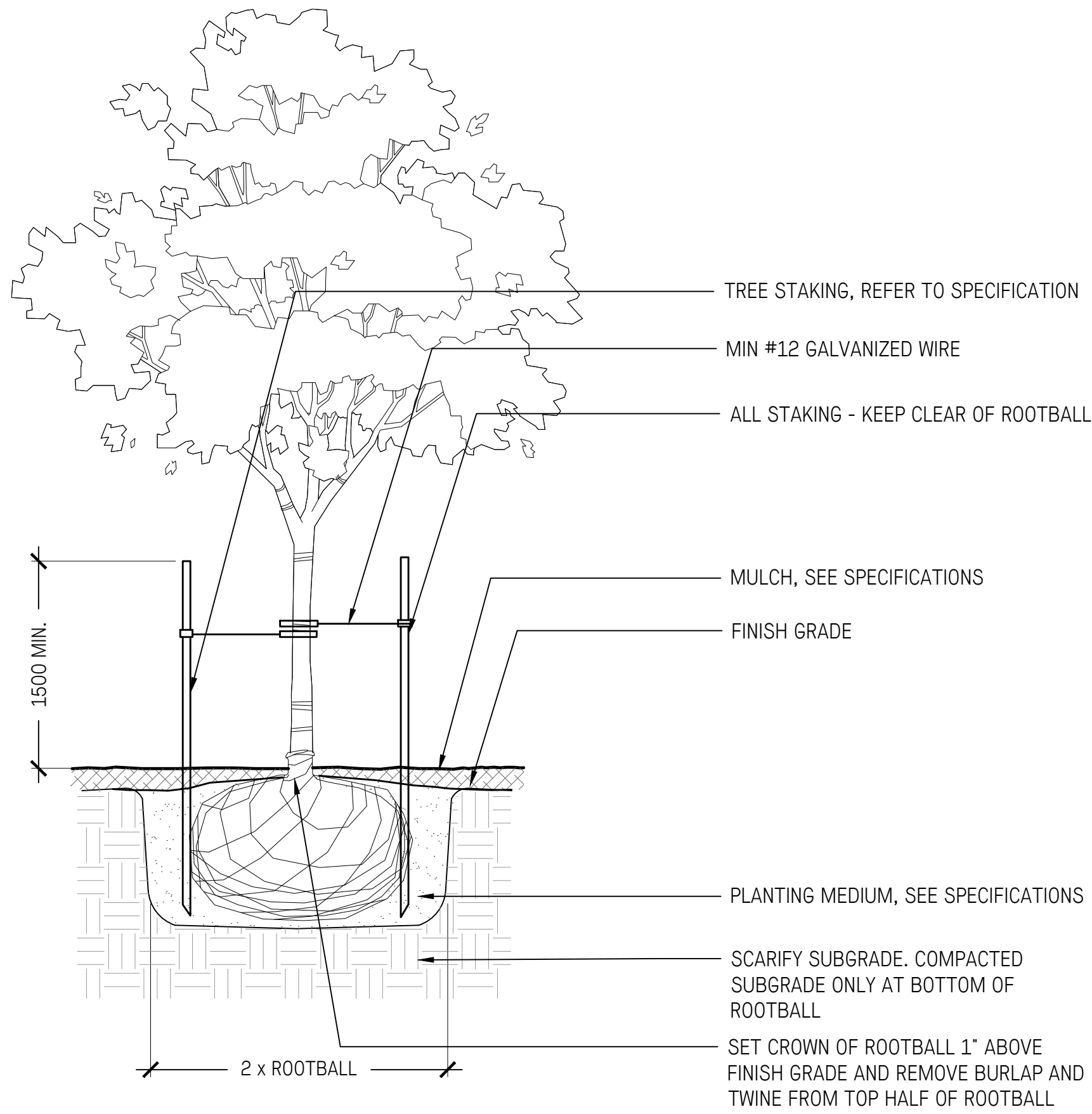
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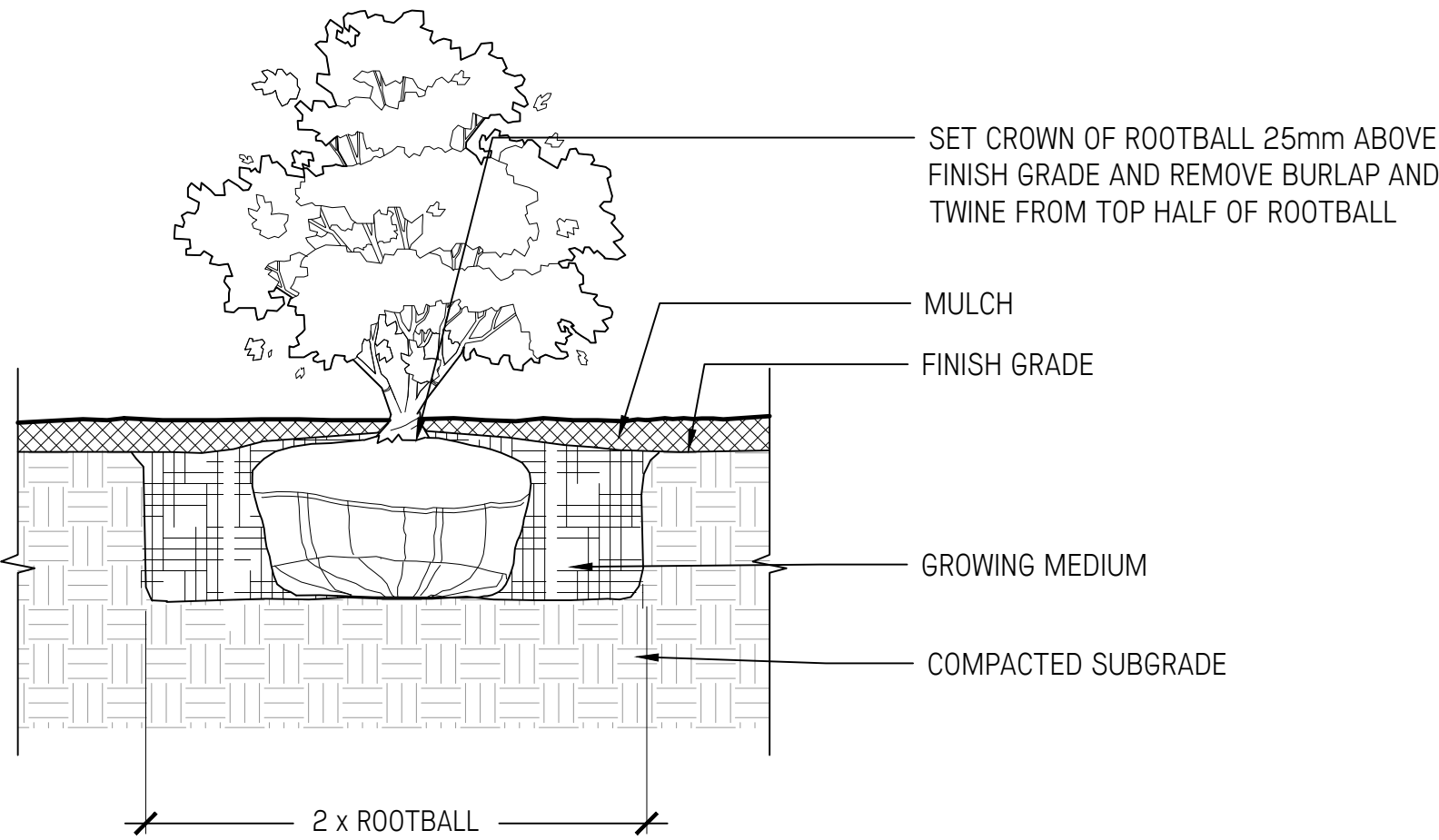
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L3.30

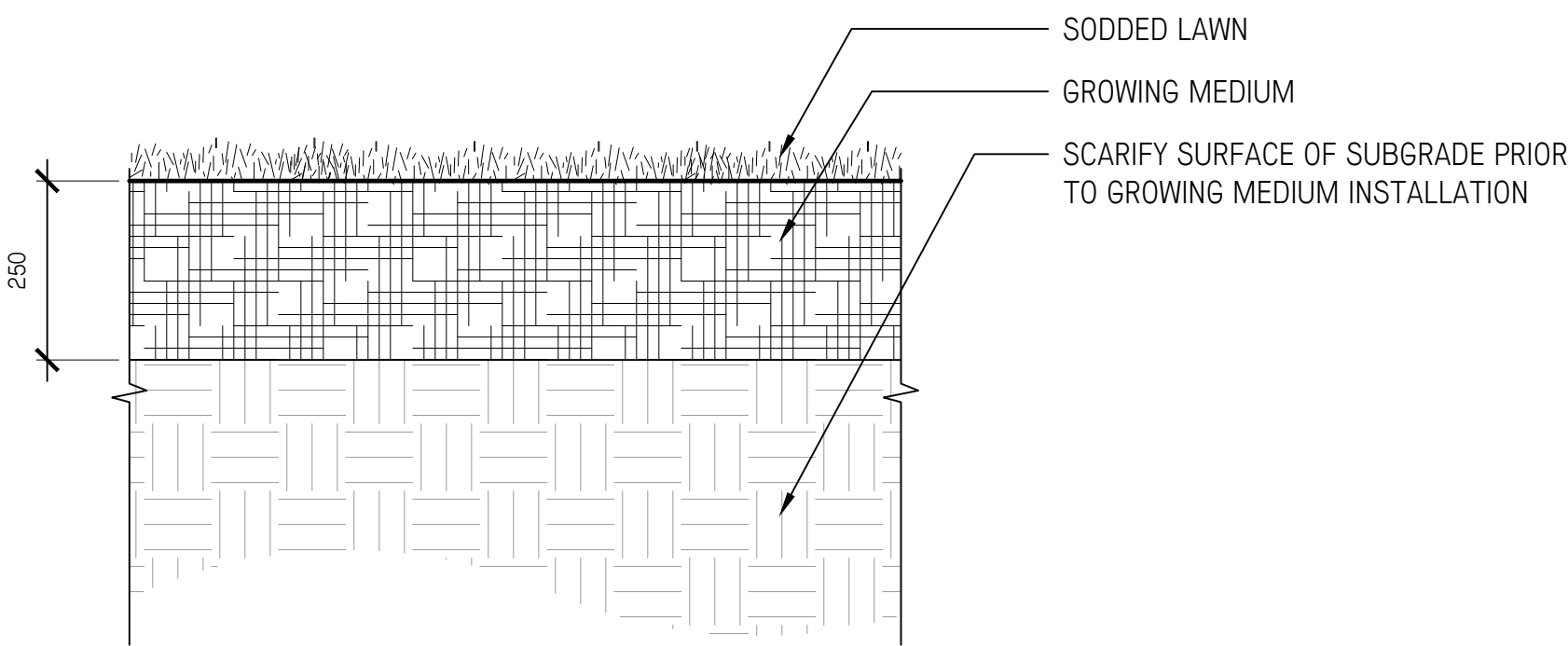




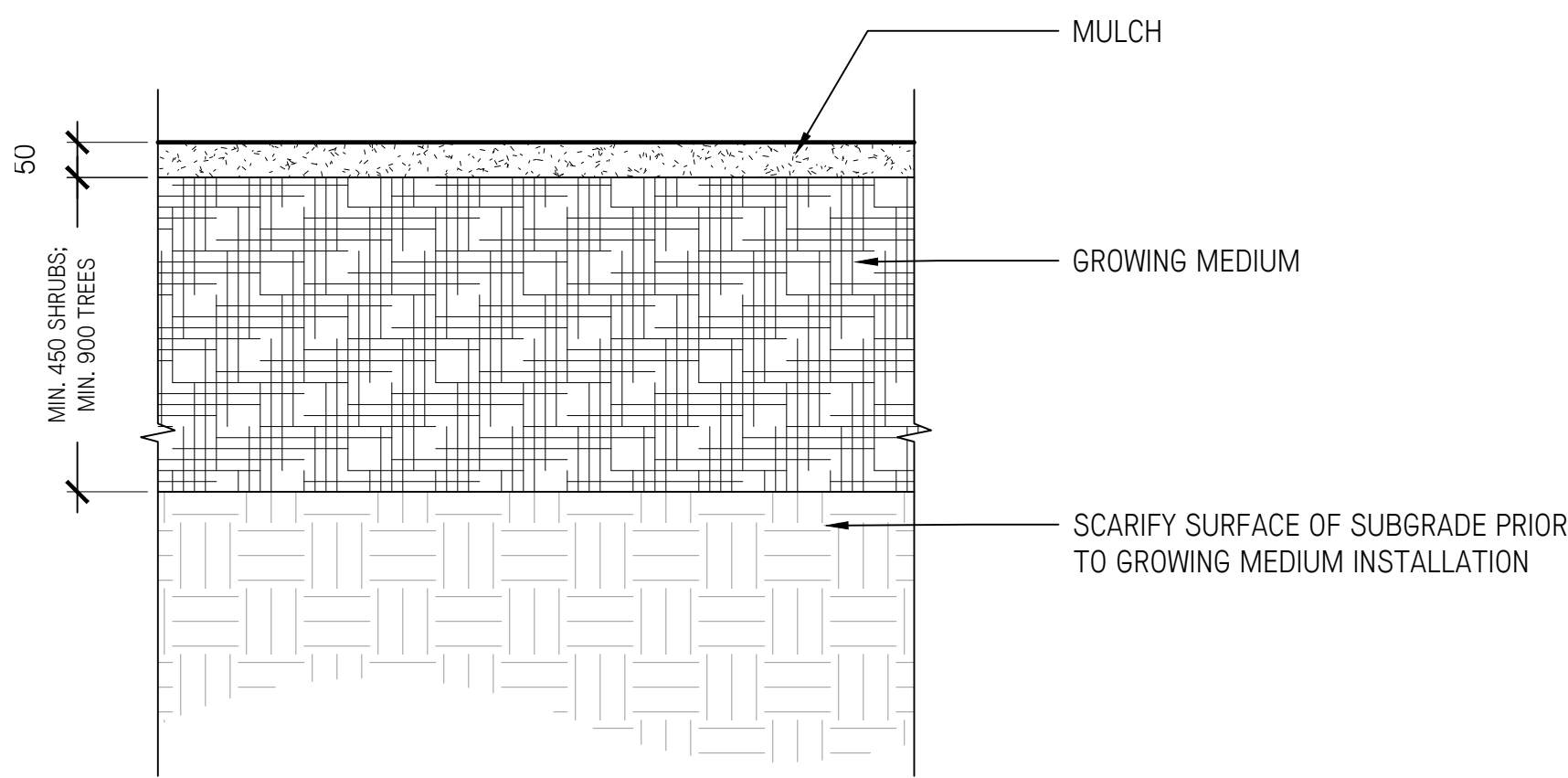
1 TREE PLANTING - ON GRADE
1:10



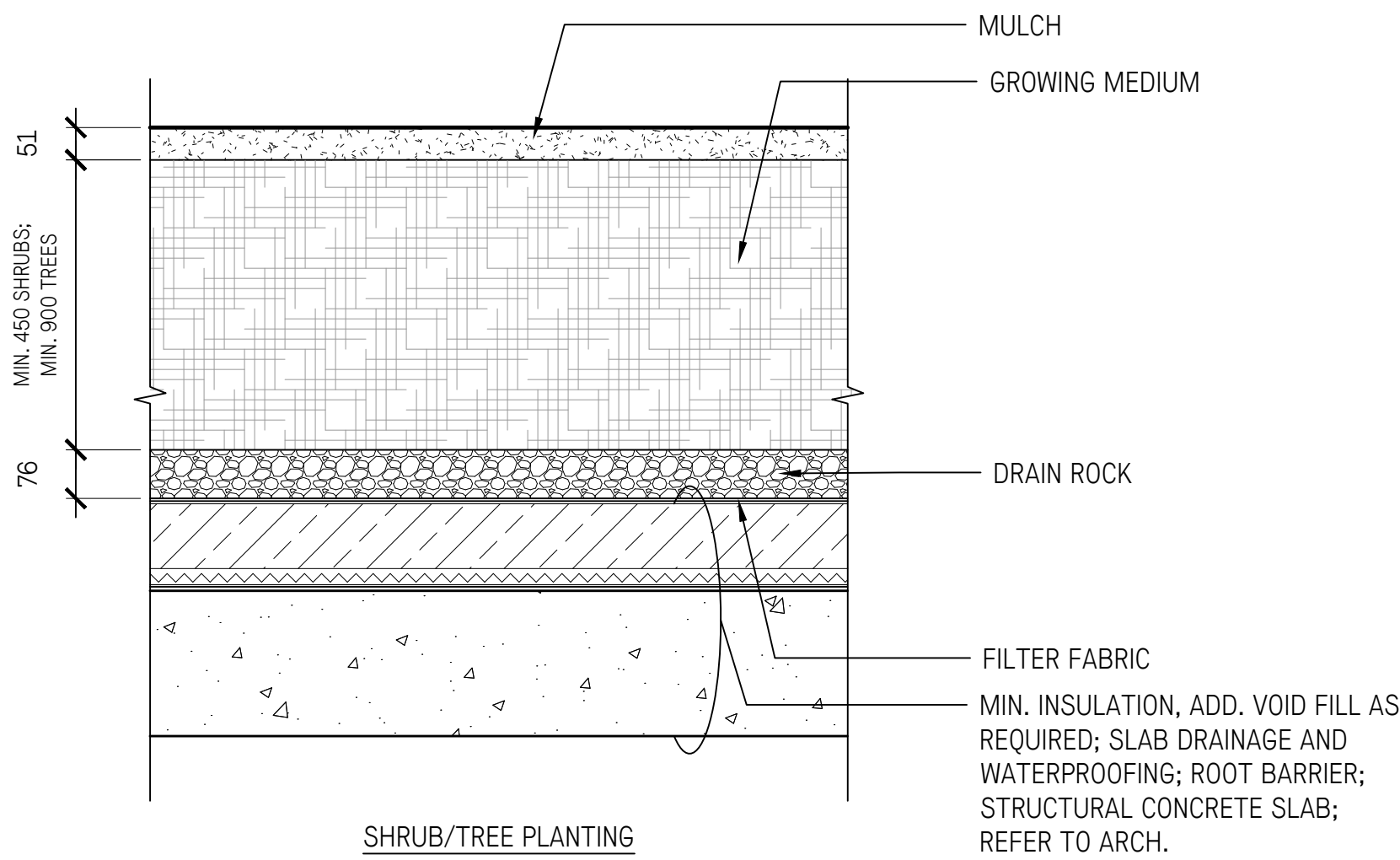
2
1:3.40 1:10



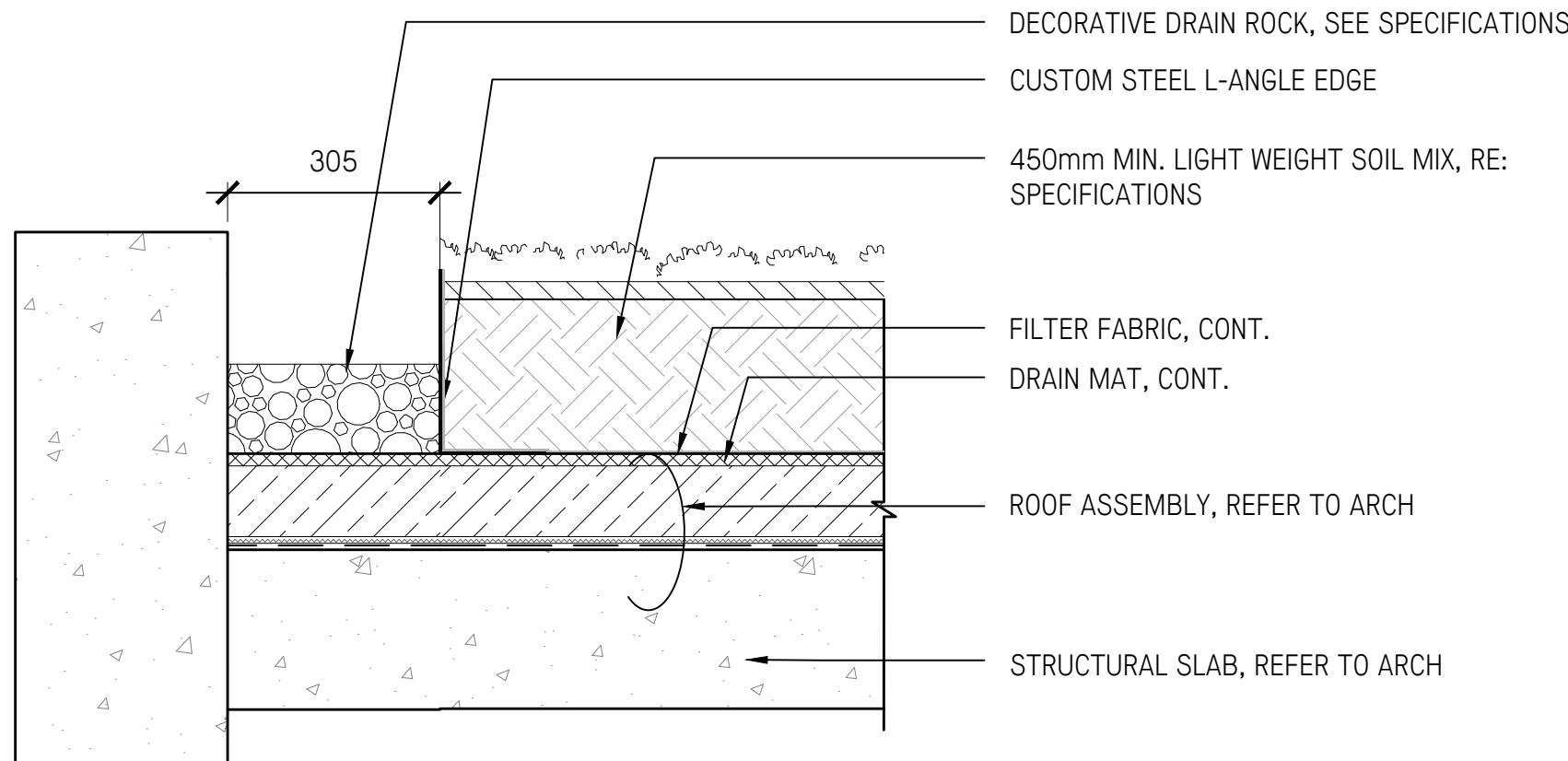
LAWN PLANTING



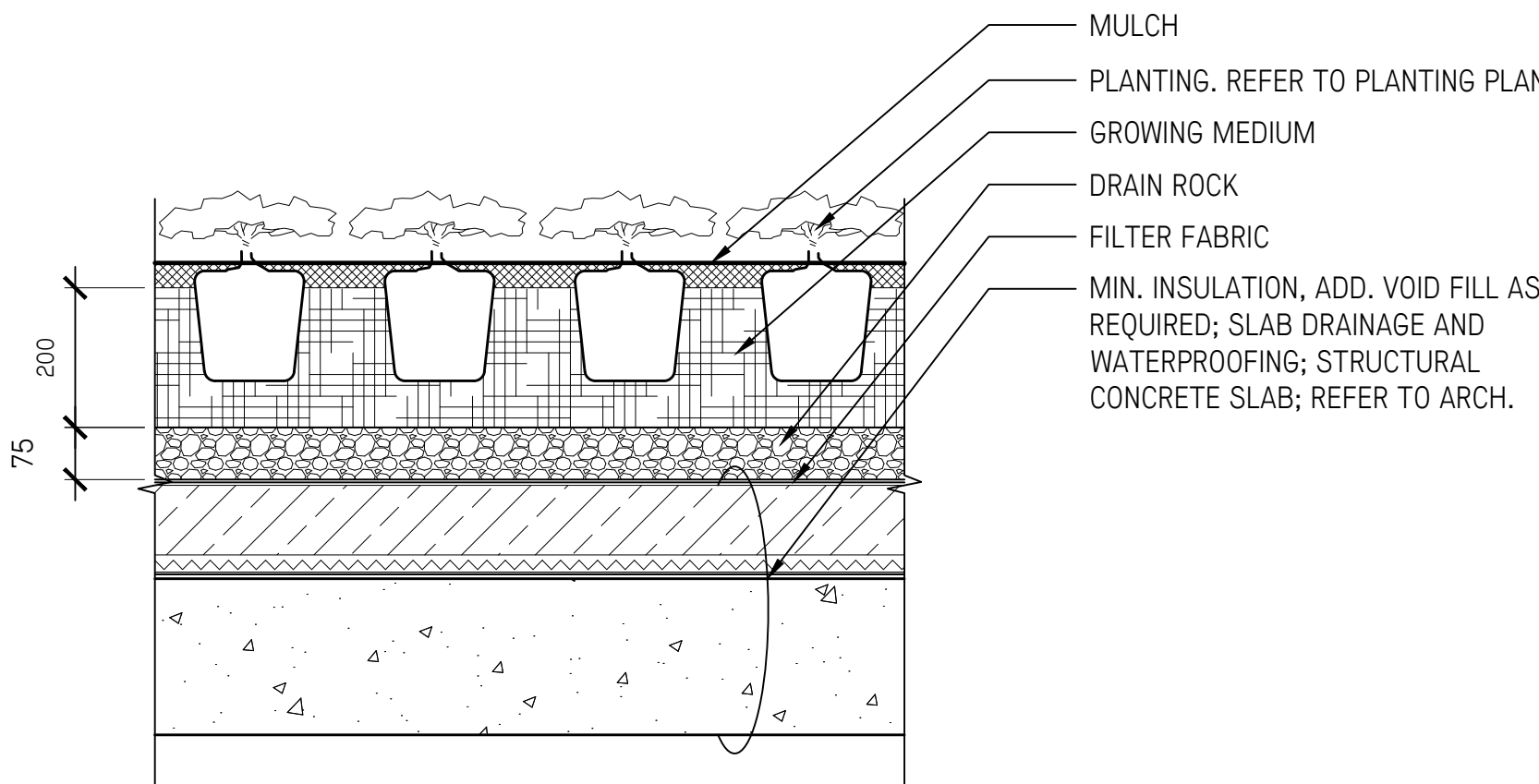
SHRUB/TREE PLANTING



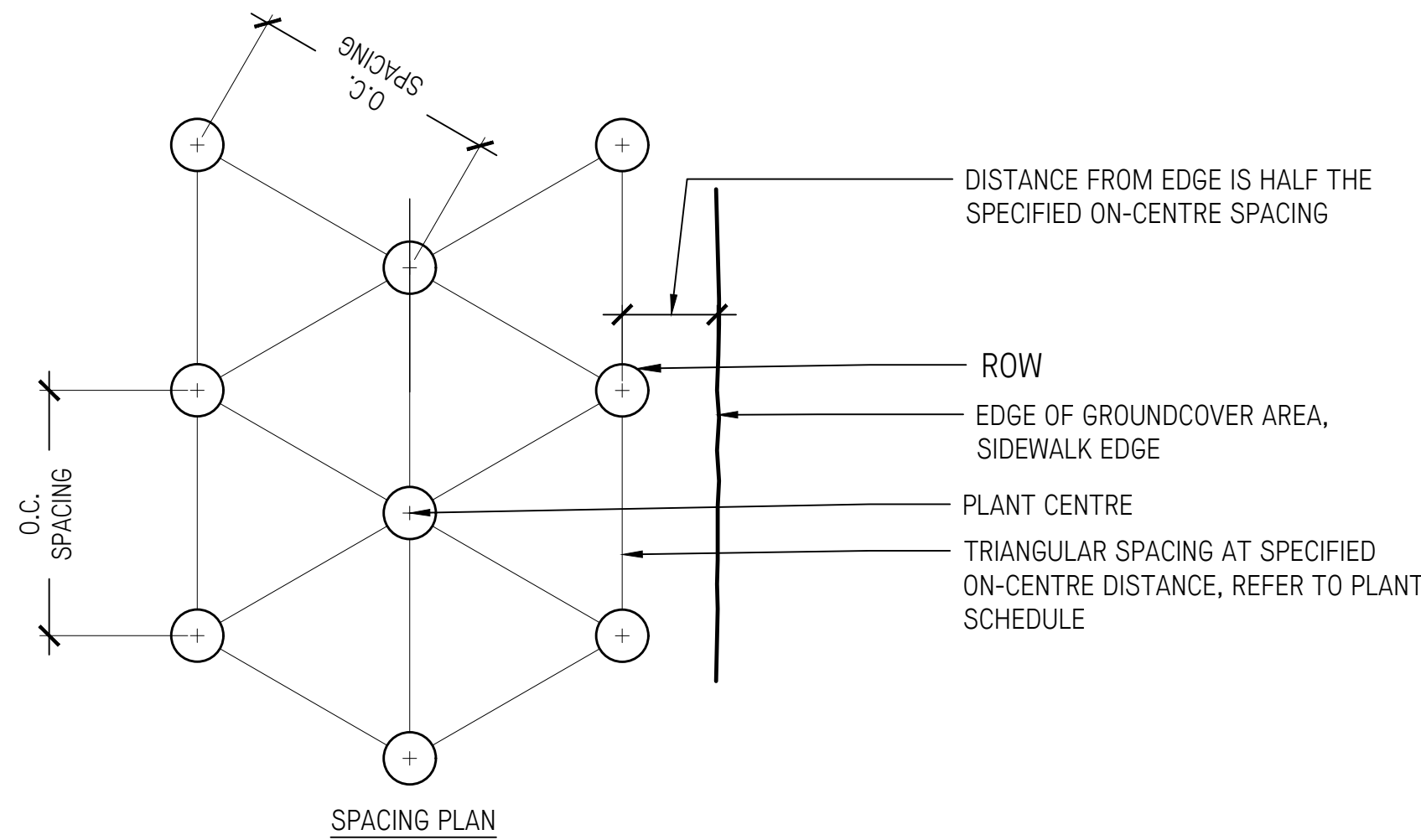
SHRUB/TREE PLANTING



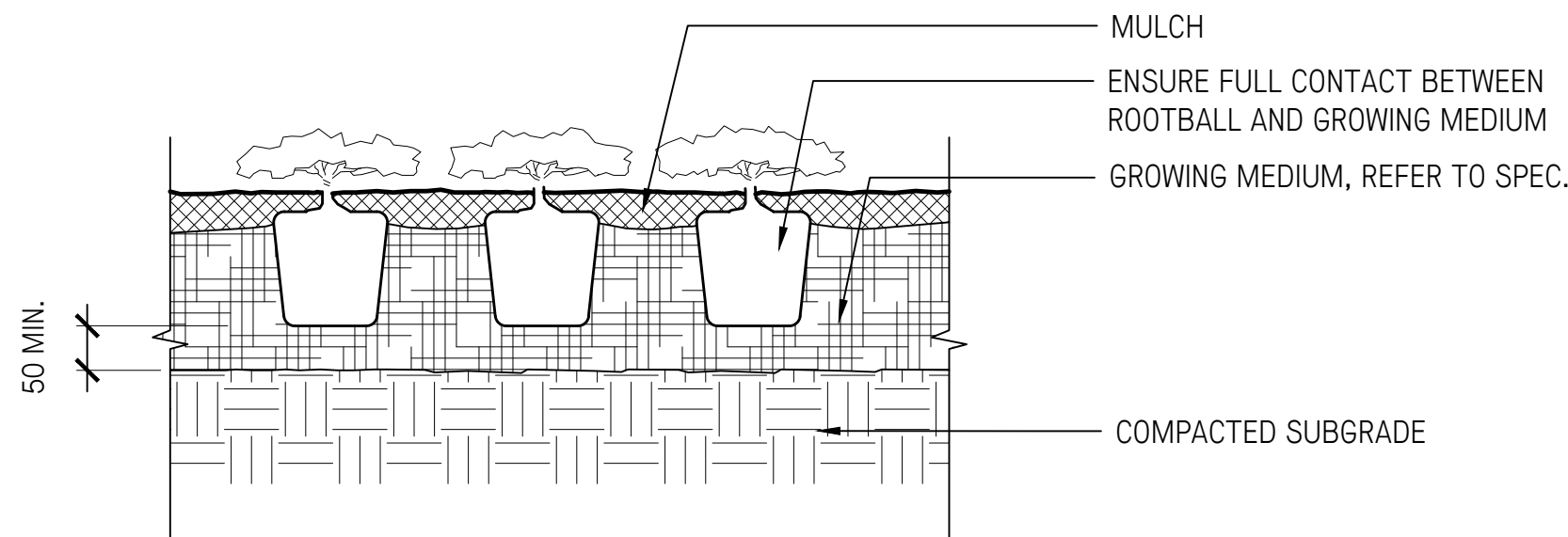
3 COURTYARD ROOF MAINTENANCE EDGE
1:10



4
1:3.40 1:10



SPACING PLAN



7 GROUND COVER PLANTING
1:10

5 SOIL PROFILES ON GRADE
1:10

6 SOIL PROFILES ON SLAB
1:10

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L3.40