

Beaty Biodiversity Centre Addition Landscape Drawings

Issued for Development Permit R3 - September 22, 2022

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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 6203
WWW.PUBLICDESIGN.CA

Beaty Biodiversity Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH

TRUE NORTH

PROJECT CODE

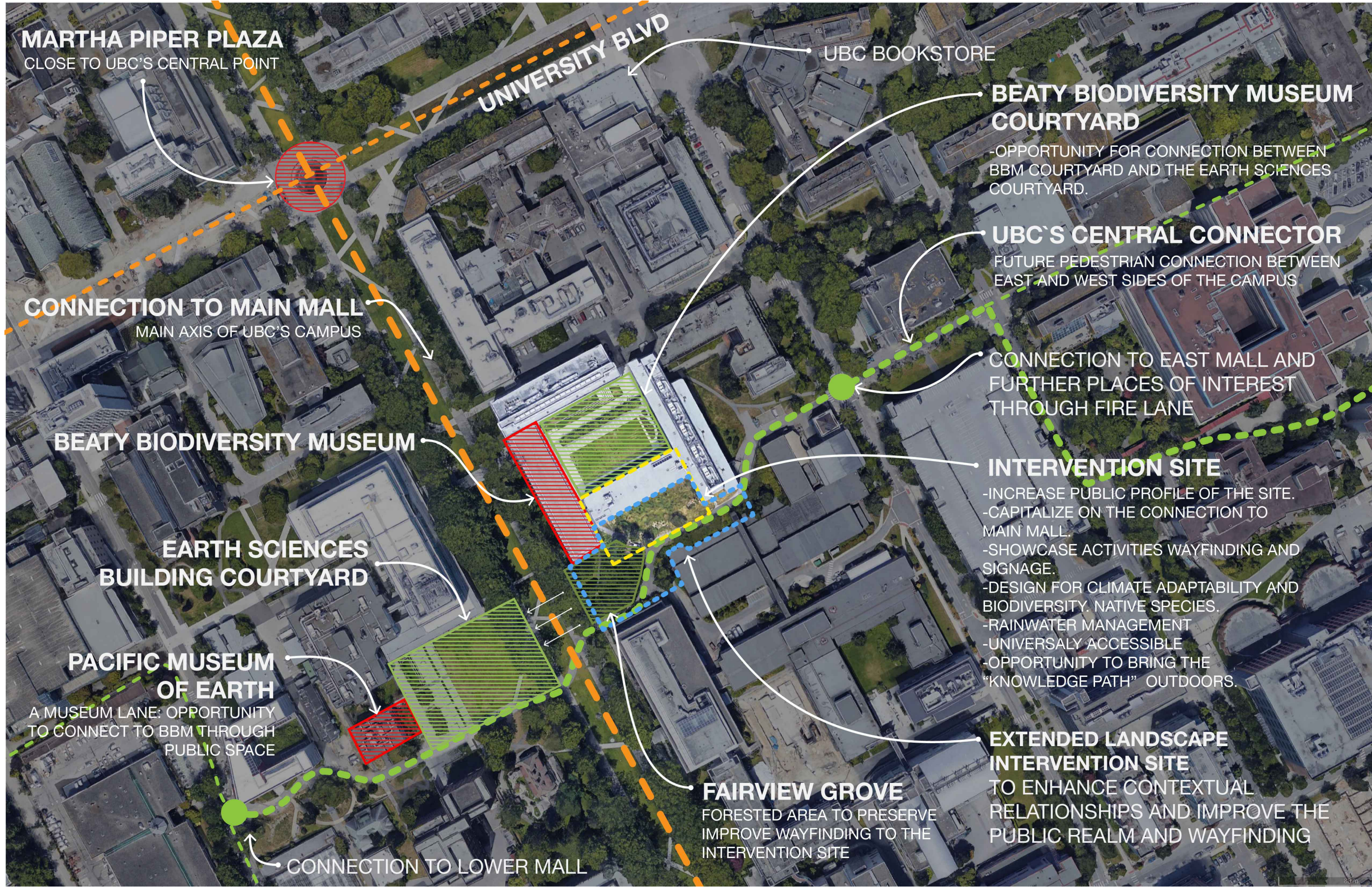
2122

SCALE

Cover Page

SHEET
L0.00

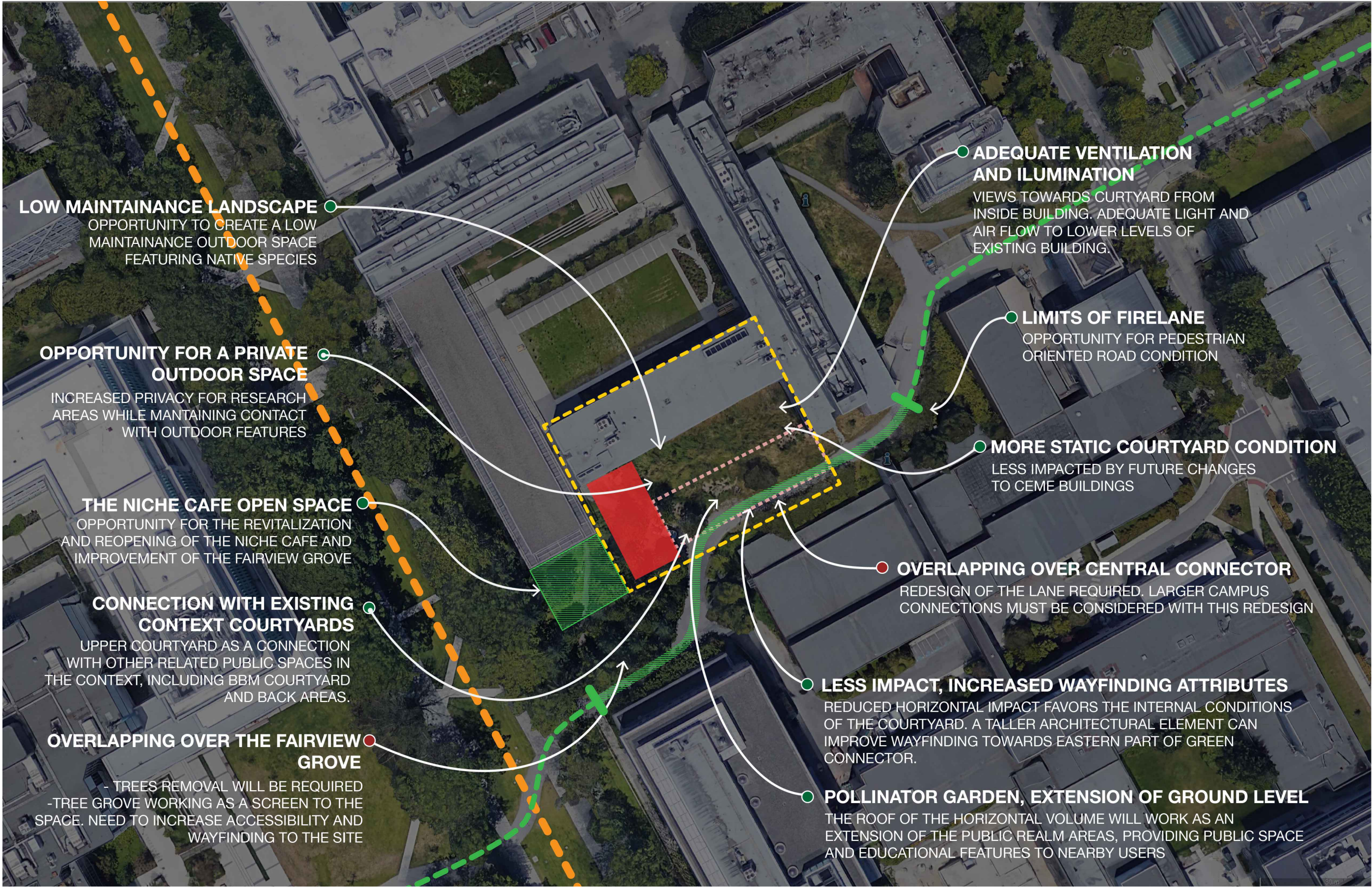
Public Realm Observations



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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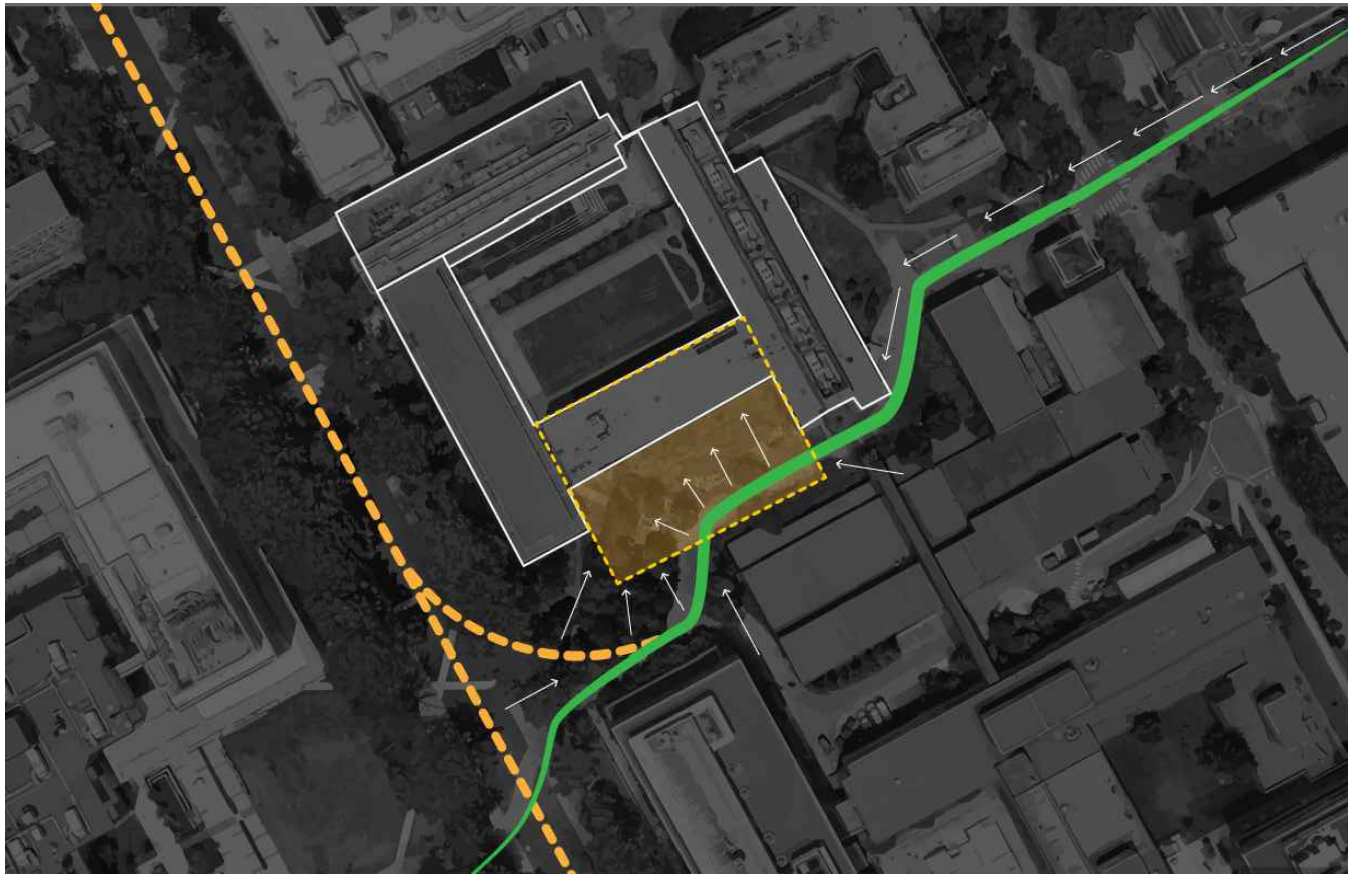
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**Beaty
Biodiversity
Centre Addition**

2212 MAIN MALL, VANCOUVER BC
PROJECT NORTH TRUE NORTH
PROJECT CODE
2122
SCALE

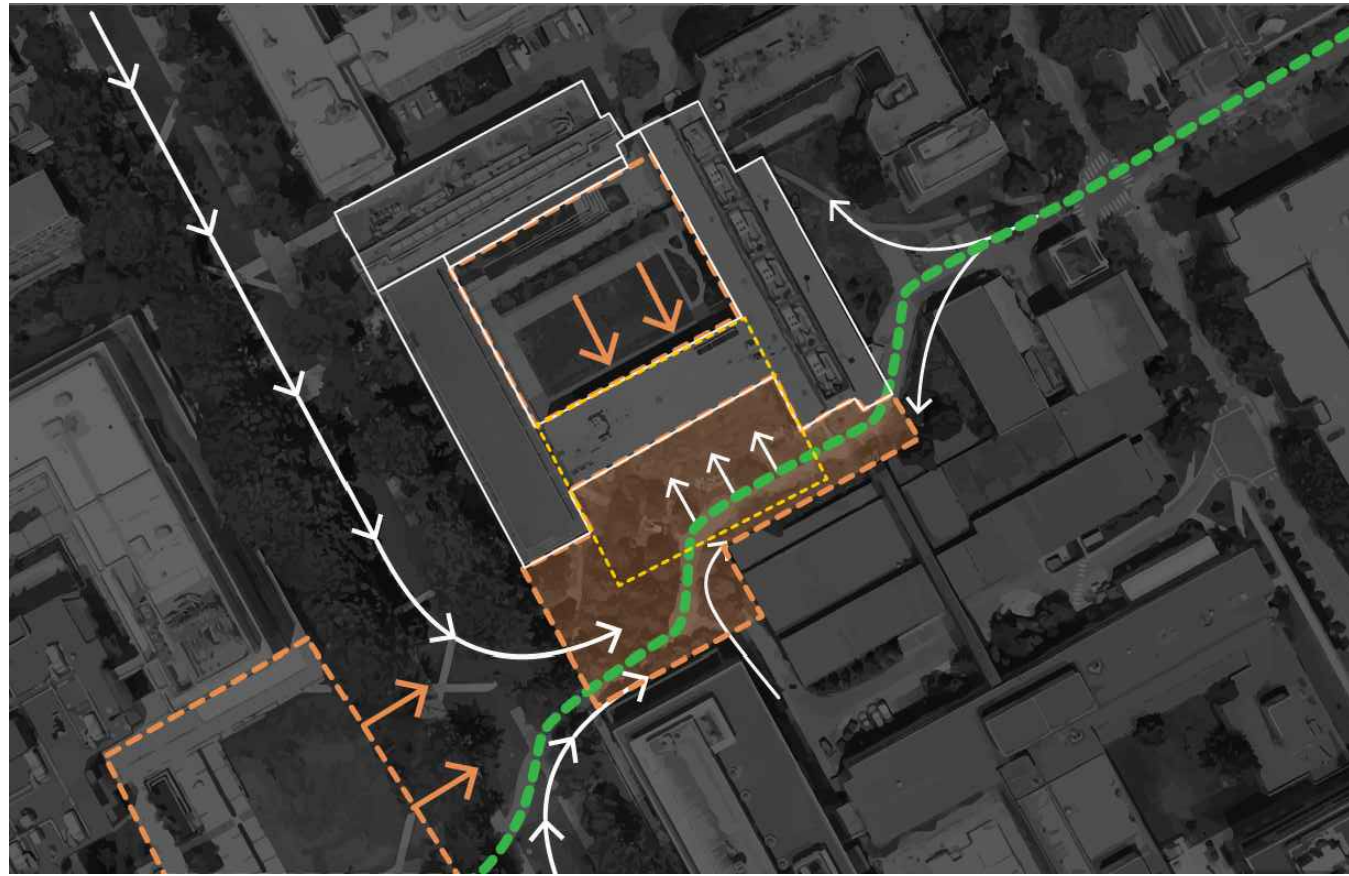
Landscape Rationale

SHEET
L0.01



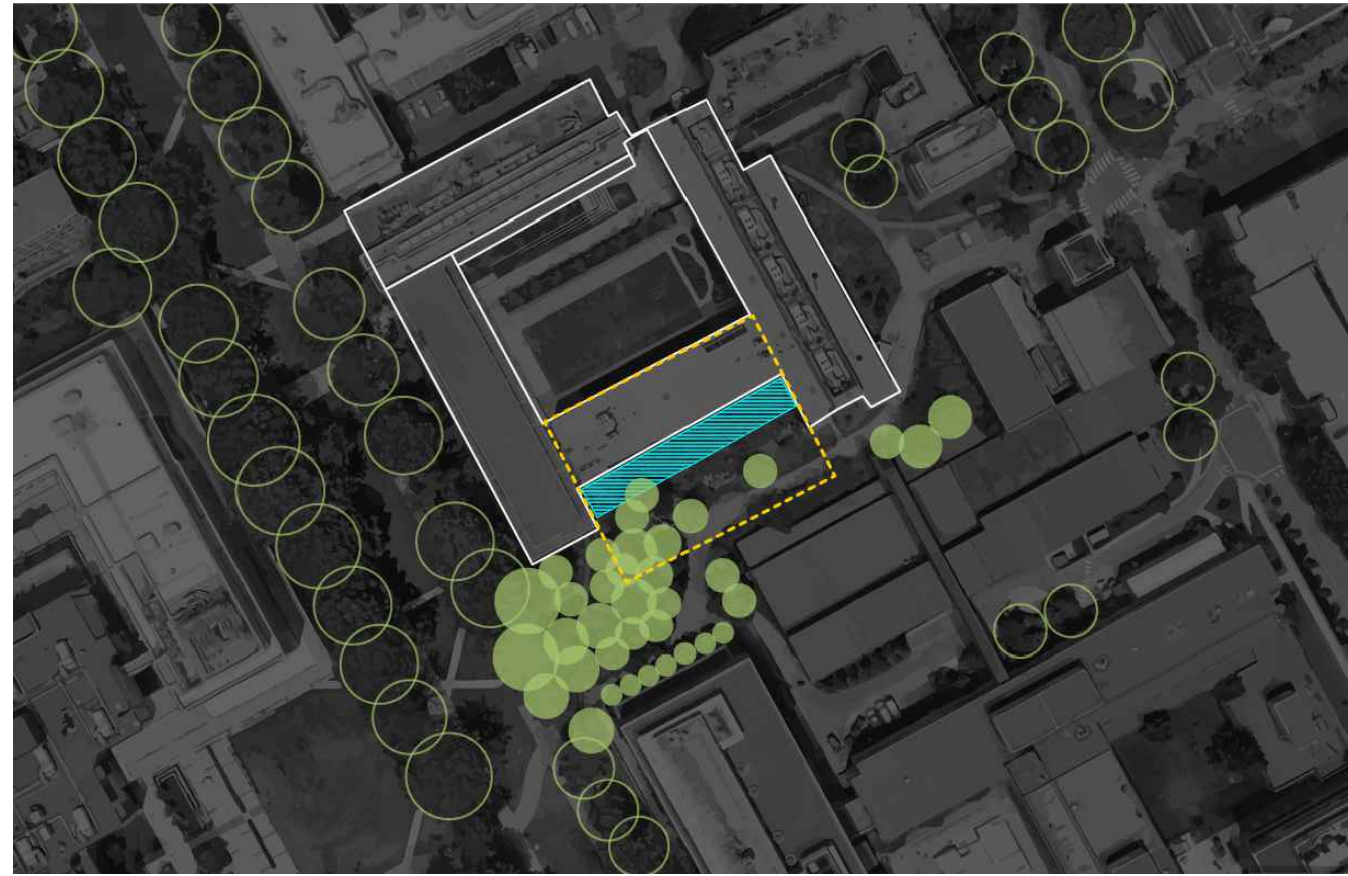
PUBLICNESS - WAYFINDING

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.



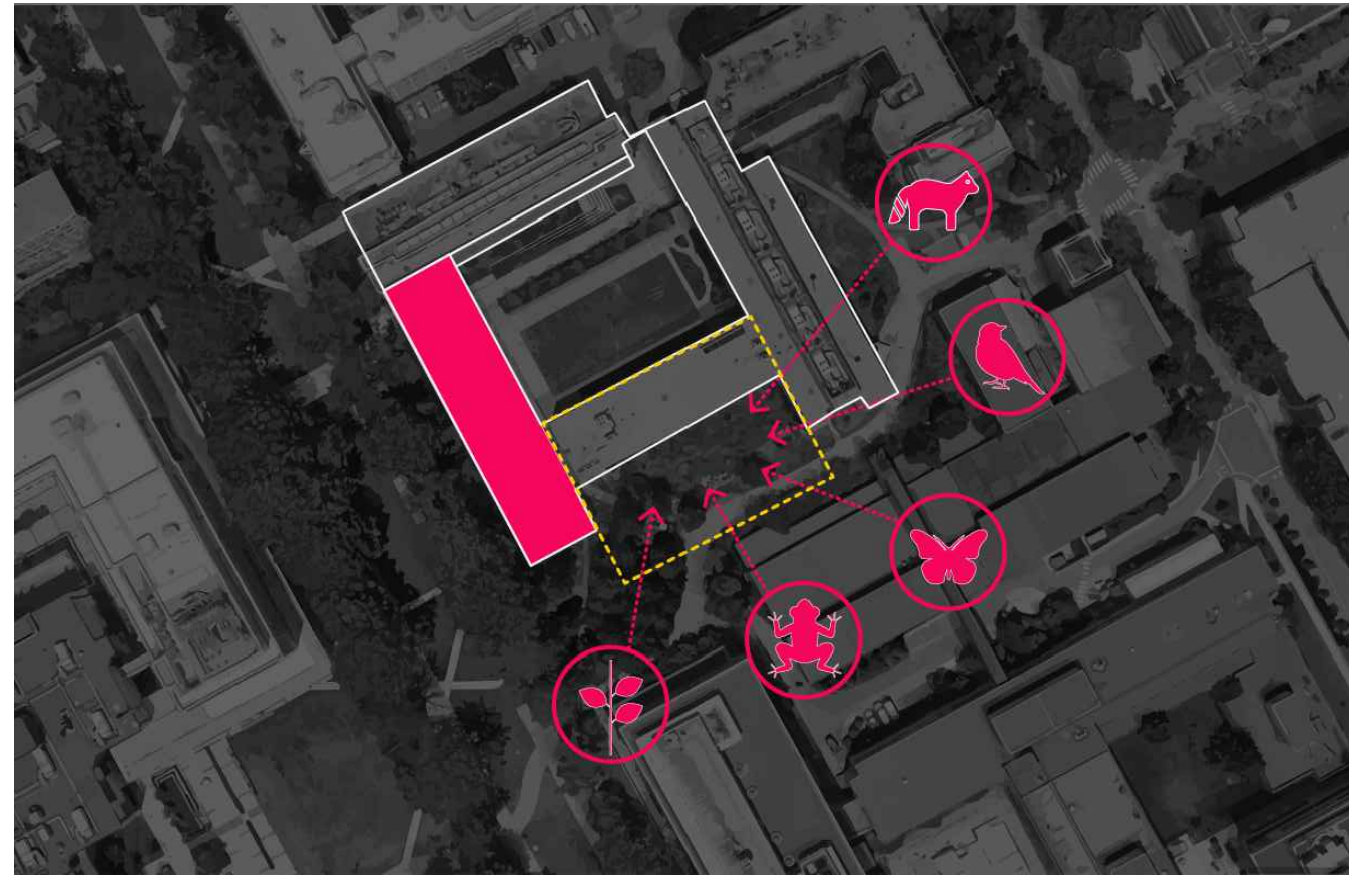
CULTURAL COMPLEX - CONNECTIVITY

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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NO	DATE
A.	MARCH 29, 2022
B.	JUNE 10, 2022
C.	JUNE 17, 2022
D.	SEPT 07, 2022
E.	SEPT 15, 2022
F.	SEPT 22, 2022

DESCRIPTION	
ISSUED FOR DP	
ISSUED FOR 100% DD	
ISSUED DP R1	
ISSUED DP R2	
ISSUED FOR 40% CD COSTING	
ISSUED DP R3	

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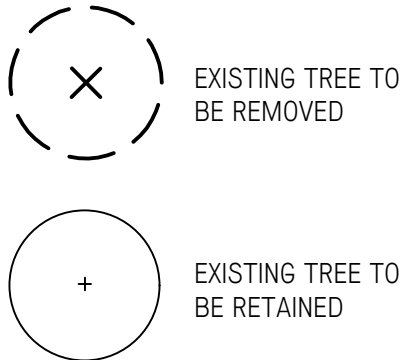
PROJECT CODE
2122
SCALE

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
7810	Cherry (P. serrulata)	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. serrulata)	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. serrulata)	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. serrulata)	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. serrulata)	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. serrulata)	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. serrulata)	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. serrulata)	61	35	3	Poor		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. sitchensis)	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

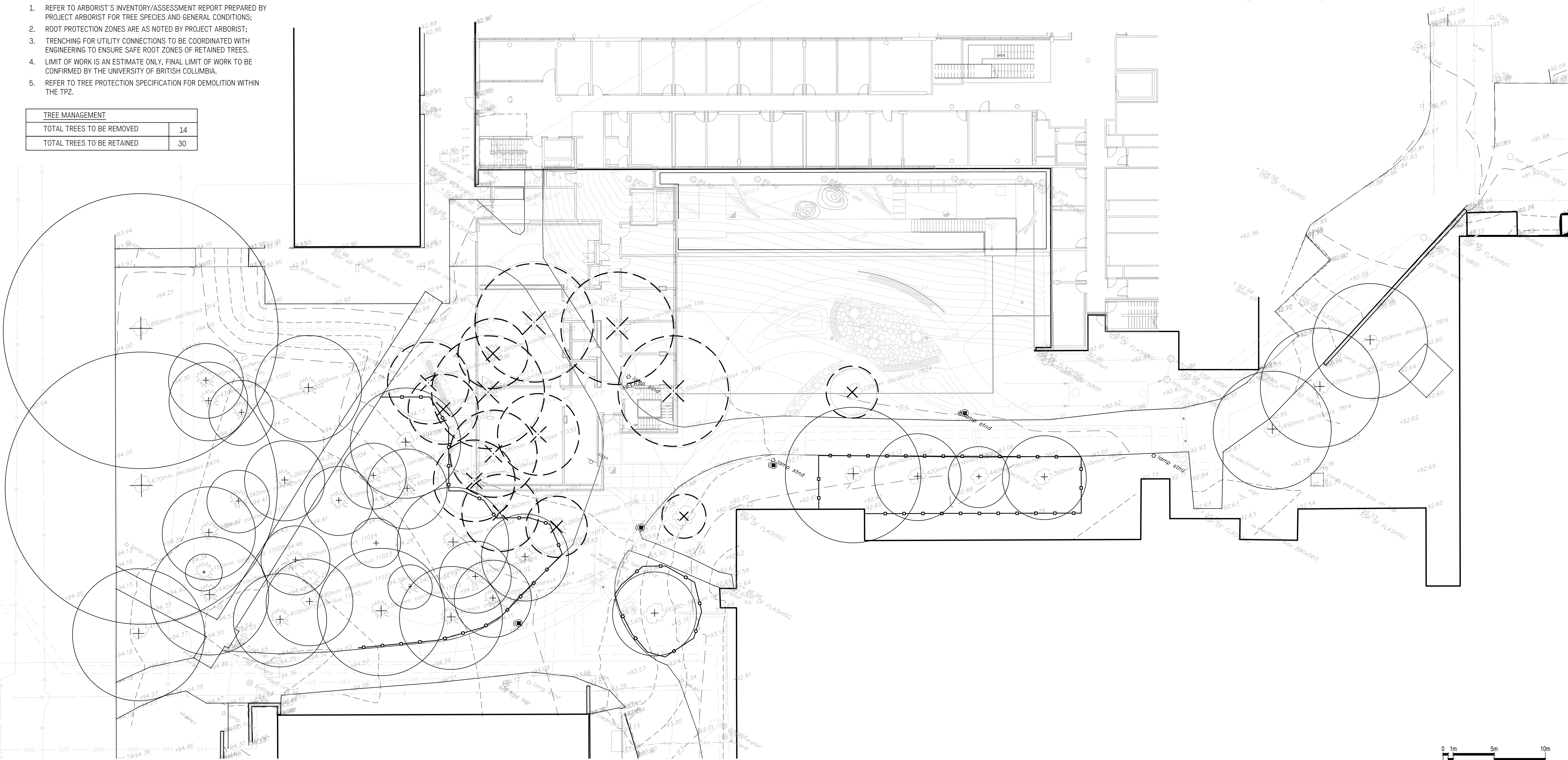
Tag #	Species	DBH (cm)	Height (m)	Drip-line Radius	Health and Structure Rating	Comments	Retention Value Rating	Retain/Remove	Retention/TPZ Comments	*TPZ
11025	Spruce (P. sitchensis)	35	23	4	Moderate	Asymmetric crown, tight spacing. Poor taper, one of taller trees in grove. Should not be retained alone.	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 (A. 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	18	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 retention 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)	32	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. sitchensis)	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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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
D.	SEPT 07, 2022	ISSUED DP R2
E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTING
F.	SEPT 22, 2022	ISSUED DP R3



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Beaty Biodiversity Centre Addition

2212 MAIN MALL, VANCOUVER BC



PROJECT CODE
2122
SCALE
1:200 m.

Tree Management Plan

SHEET

L0.03



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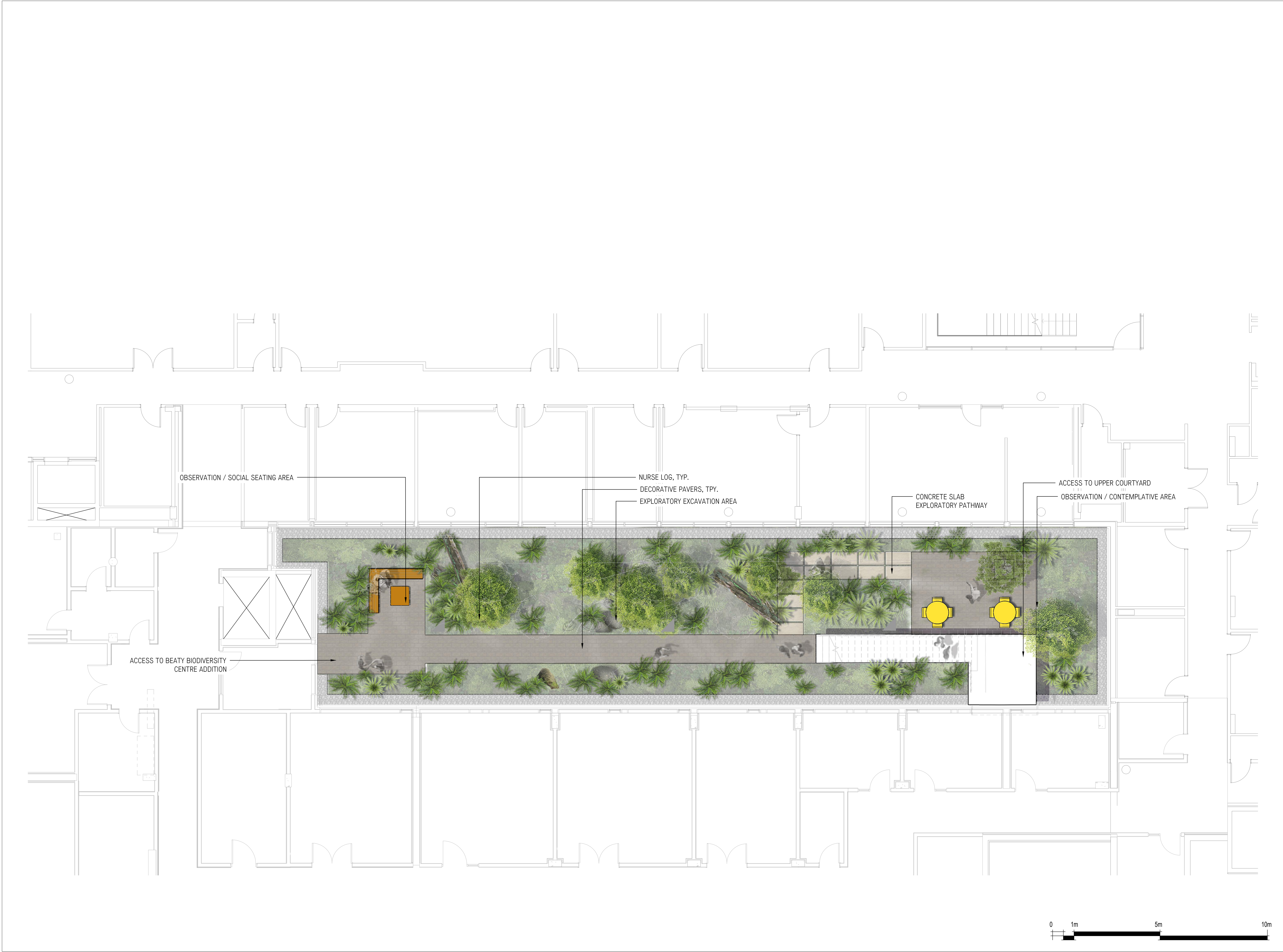
2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

Concept Plan
Level 1

SHEET
L1.01



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Beaty
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2212 MAIN MALL, VANCOUVER BC
PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:75 m.

Concept Plan
Basement Level

SHEET
L1.02

1. EXISTING SURVEY INFORMATION IS BASED ON THE FOLLOWING DRAWINGS: 8613JY-01 2021 08 19 ACAD2007;
2. 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;
3. 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;
4. 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;
5. THE CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON DRAWINGS AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO CONSTRUCTION;
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE LIMIT OF WORK LINE;
7. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES AND TAKING THE NECESSARY PRECAUTIONS PRIOR TO AND DURING CONSTRUCTION. REFER TO CIVIL;
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF EXCESS FILL OFF-SITE;
9. ARCHITECTURAL AND CIVIL DESIGN SHOWN FOR INFORMATION ONLY;
10. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DISCIPLINE SPECIFIC REMOVALS.

EXISTING TREE
 PROPOSED TREE
 CIP CONCRETE PAVING
 CRUSHED GRANITE
 ASPHALT, REFER TO CIVIL
 WOOD BENCH



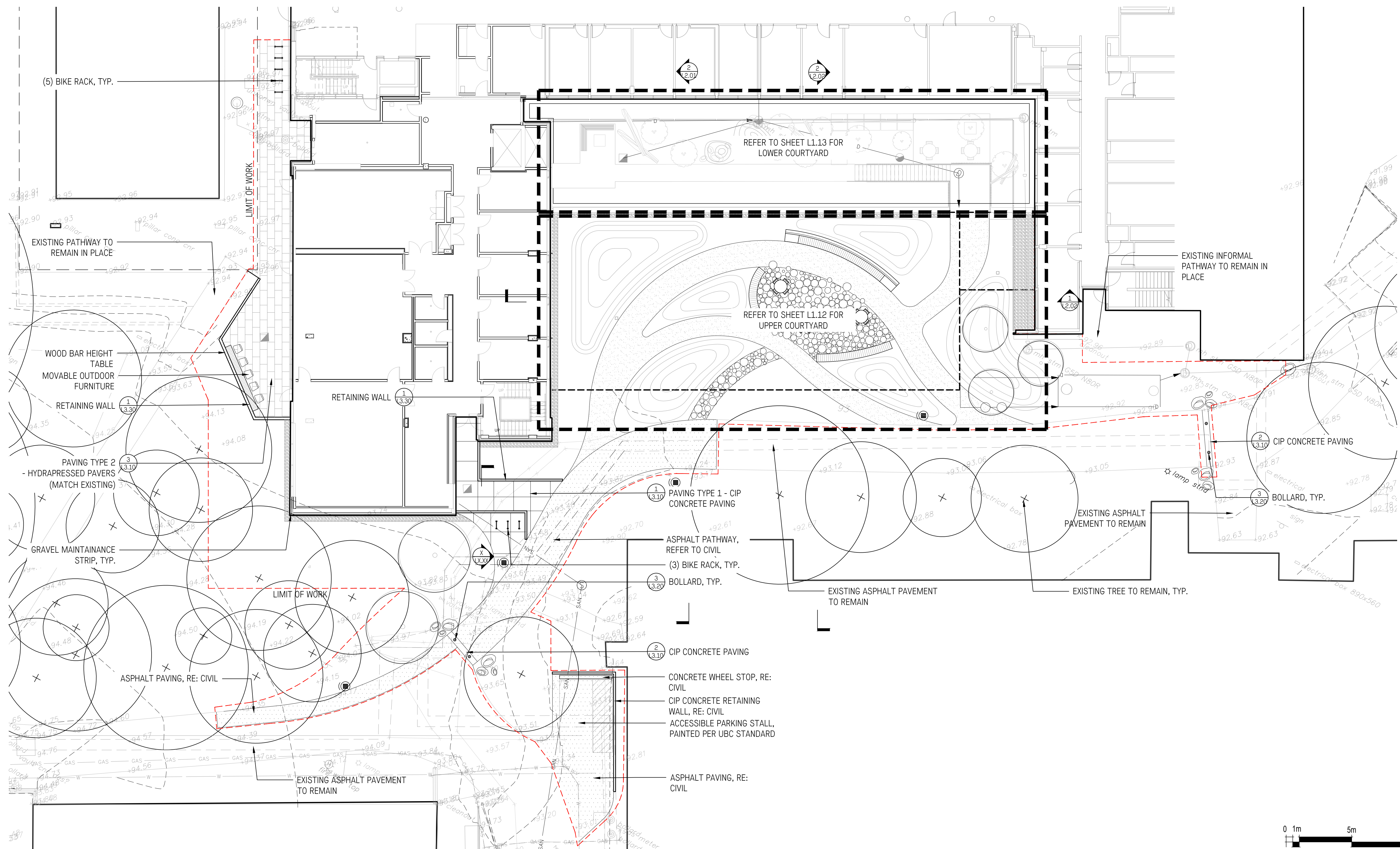
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E.	SEPT 15, 2022	ISSUED FOR 40% CD COST
F.	SEPT 22, 2022	ISSUED DP R3

Not for
construction

Overall Site Plan

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.

X EXISTING TREE
 + PROPOSED TREE
 CIP CONCRETE PAVING
 CRUSHED GRANITE
 ASPHALT, REFER TO CIVIL
 WOOD BENCH



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A.	MARCH 29, 2022	ISSUED FOR DP
B.	JUNE 10, 2022	ISSUED FOR 100% DD
C.	JUNE 17, 2022	ISSUED DP R1
D.	SEPT 07, 2022	ISSUED DP R2
E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTS
F.	SEPT 22, 2022	ISSUED DP R3

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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

Materials Plan Level 1





SHEET

1.11





MATERIALS PLAN NOTES

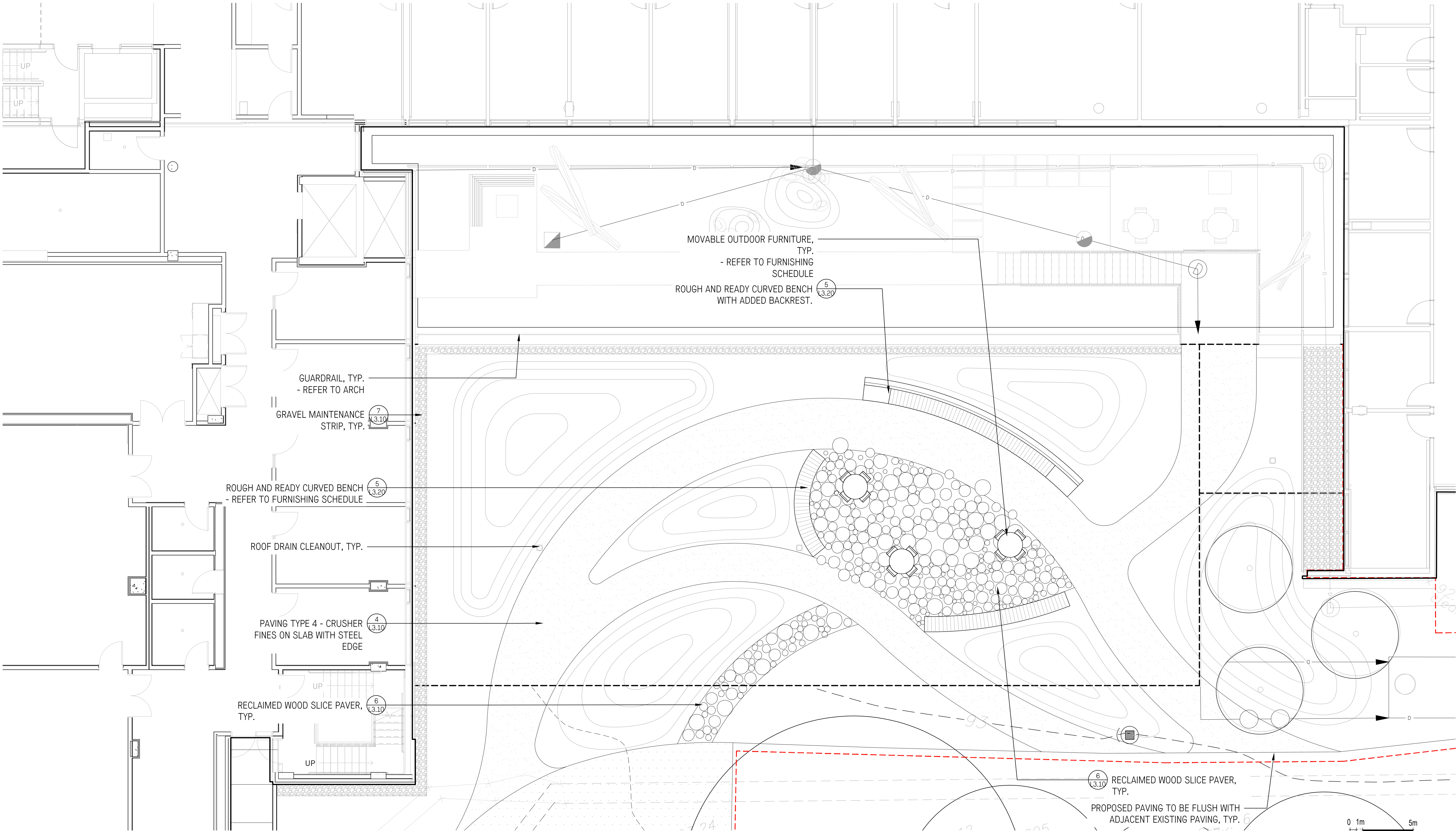
1. REFER TO DETAILS AND SECTIONS FOR ALL LANDSCAPE IMPROVEMENTS;
2. REFER TO ELECTRICAL FOR SITE LIGHTING INFORMATION;
3. REFER TO UNIVERSITY OF BRITISH COLUMBIA STANDARDS FOR WORK ON TYPICAL SIDEWALKS;
4. TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH UNIVERSITY OF BRITISH COLUMBIA TO ENSURE 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.

PAVING / MATERIAL LEGEND

-  CONCRETE PAVERS
-  ASPHALT PAVING
-  WOOD SLICE PAVING
-  CRUSHED STONE PAVING

SITE FURNISHING LEGEND

- | SYMBOL | QTY | DESCRIPTION |
|---|-----------------|--|
|  | 3 (T)
12 (C) | PARC CENTRE 30" ROUND TABLE AND PARC CENTRE CHAIRS WITH ARMS, AS SUPPLIED BY LANDSCAPE FORMS - POWDER COAT, COLOUR TBD |
|  | 6 | CHIPMAN STOOL, AS SUPPLIED BY LANDSCAPE FORMS - POWDER COAT FINISH, COLOUR TBD |
|  | 8 | BIKE RACK, UBC STANDARD - SURFACE MOUNT, POWDER COAT FINISH, COLOUR TBD |
|  | 2 | ROUGH AND READY CURVED BENCH, AS SUPPLIED BY STREETLIFE - 600mm SEAT DEPTH, OUTER RADIUS AS PER PLAN, SURFACE MOUNT |



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E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTIN
F.	SEPT 22, 2022	ISSUED DP R3

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Beaty
Biodiversity
Centre Addition

2212 MAIN MALL, VANCOUVER BC
PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:75 m.

Materials Plan
Enlargement

SHEET
L1.12

COURTYARD PAVING / MATERIAL LEGEND

- CONCRETE PAVERS
- NATURAL STONE SLABS

SITE FURNISHING LEGEND

- 2 (T)
8 (C)

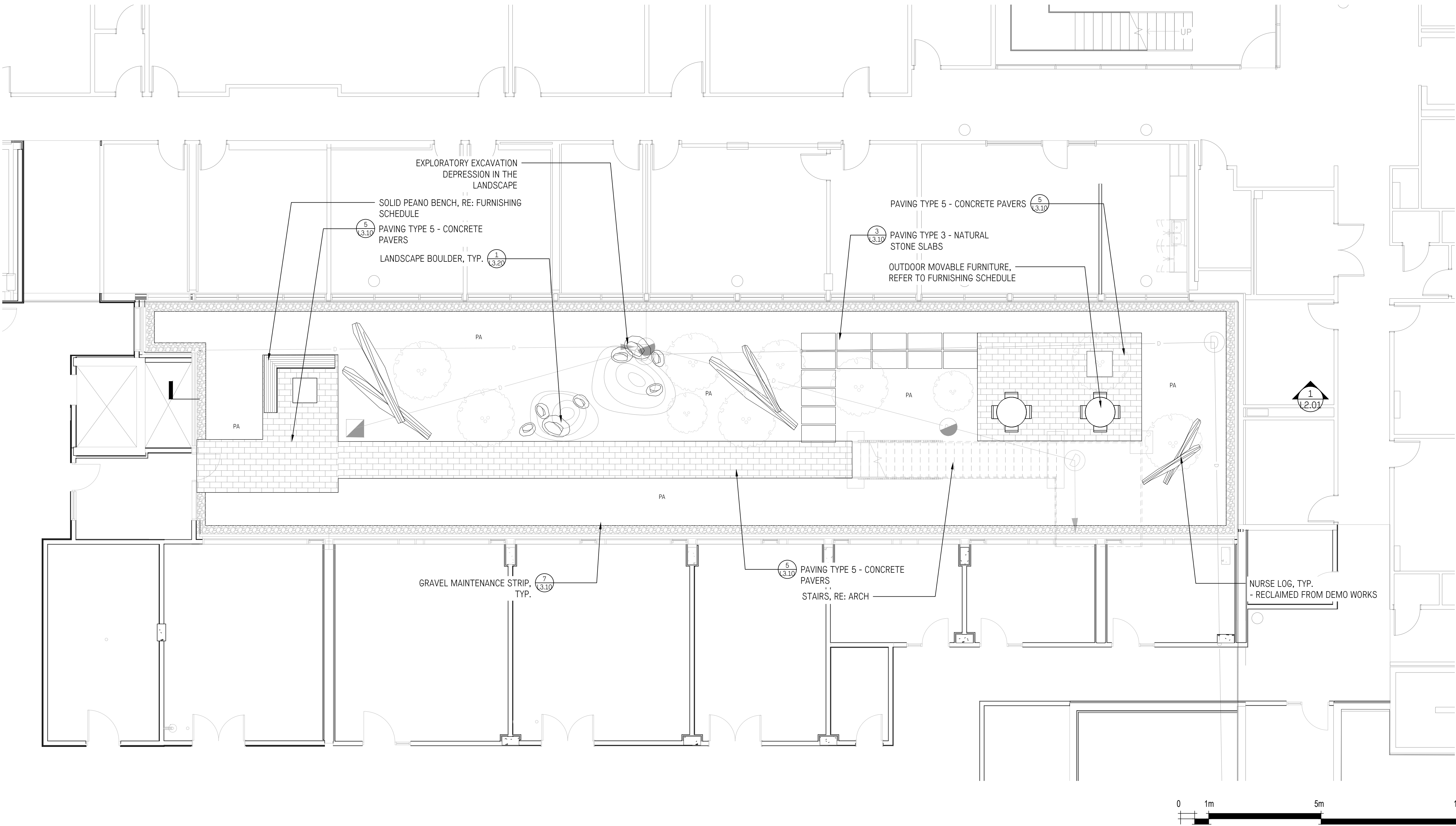
PARC CENTRE 30" ROUND TABLE
AND PARC CENTRE CHAIRS WITH
ARMS, AS SUPPLIED BY LANDSCAPE
FORMS - POWDER COAT, COLOUR
TBD
- 2

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

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5. BOULDER PLACEMENT: COORDINATE REVIEW, SELECTION, AND PLACEMENT WITH LANDSCAPE ARCHITECT.



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D.	SEPT 07, 2022	ISSUED DP R2
E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTING
F.	SEPT 22, 2022	ISSUED DP R3

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Beaty
Biodiversity
Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:150 m.

Material Plan
Basement Level

SHEET

L1.13

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 TO INSTALLATION;
4. CONFIRM SAWCUT PATTERN ONSITE WITH LANDSCAPE ARCHITECT.

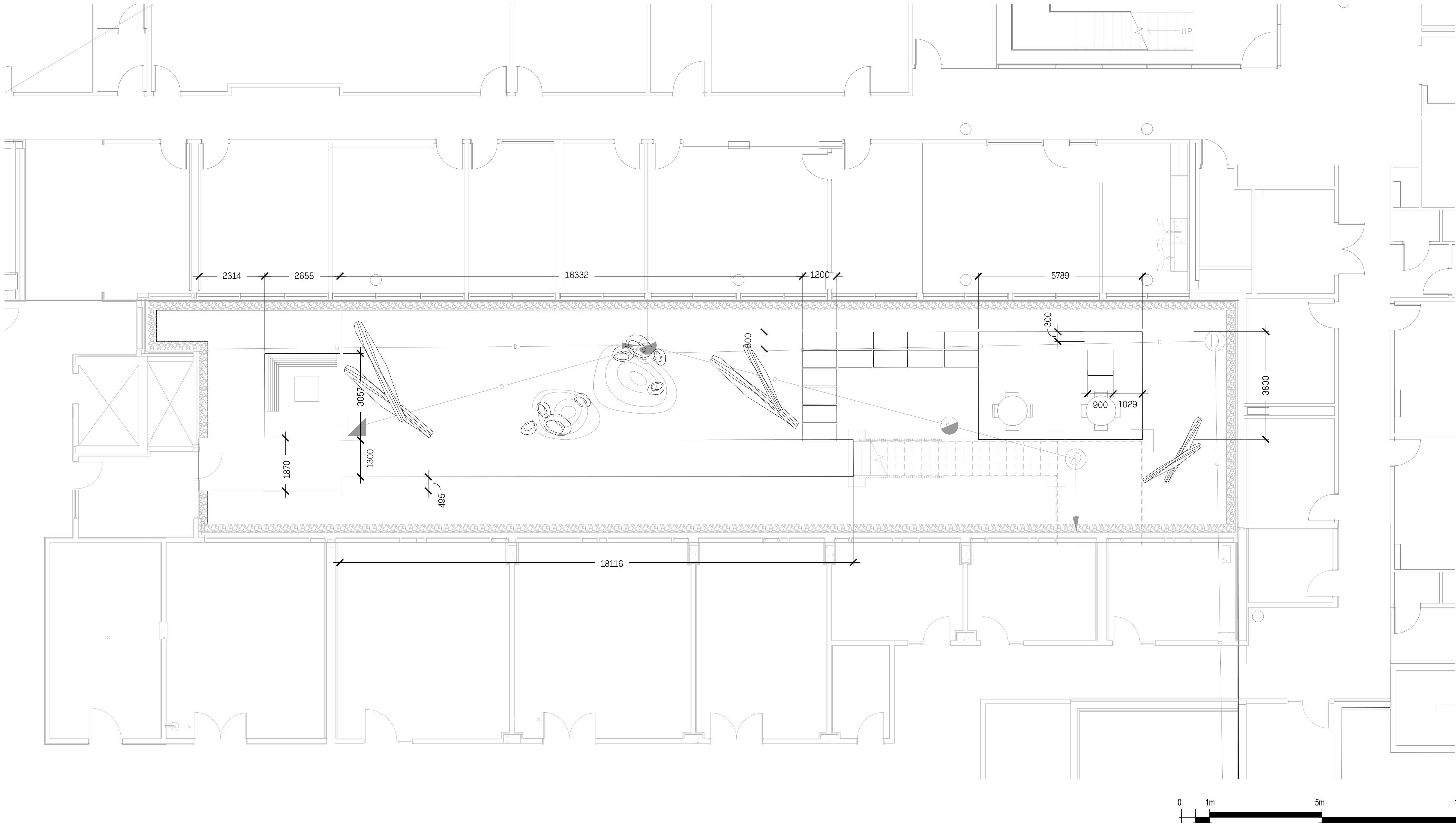
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E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTING
F.	SEPT 22, 2022	ISSUED DP R3



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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Beaty Biodiversity Centre Addition

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PROJECT NORTH TRUE NORTH

PROJECT CODE
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SCALE
1:150 m.

Layout Plan Basement Level

SHEET

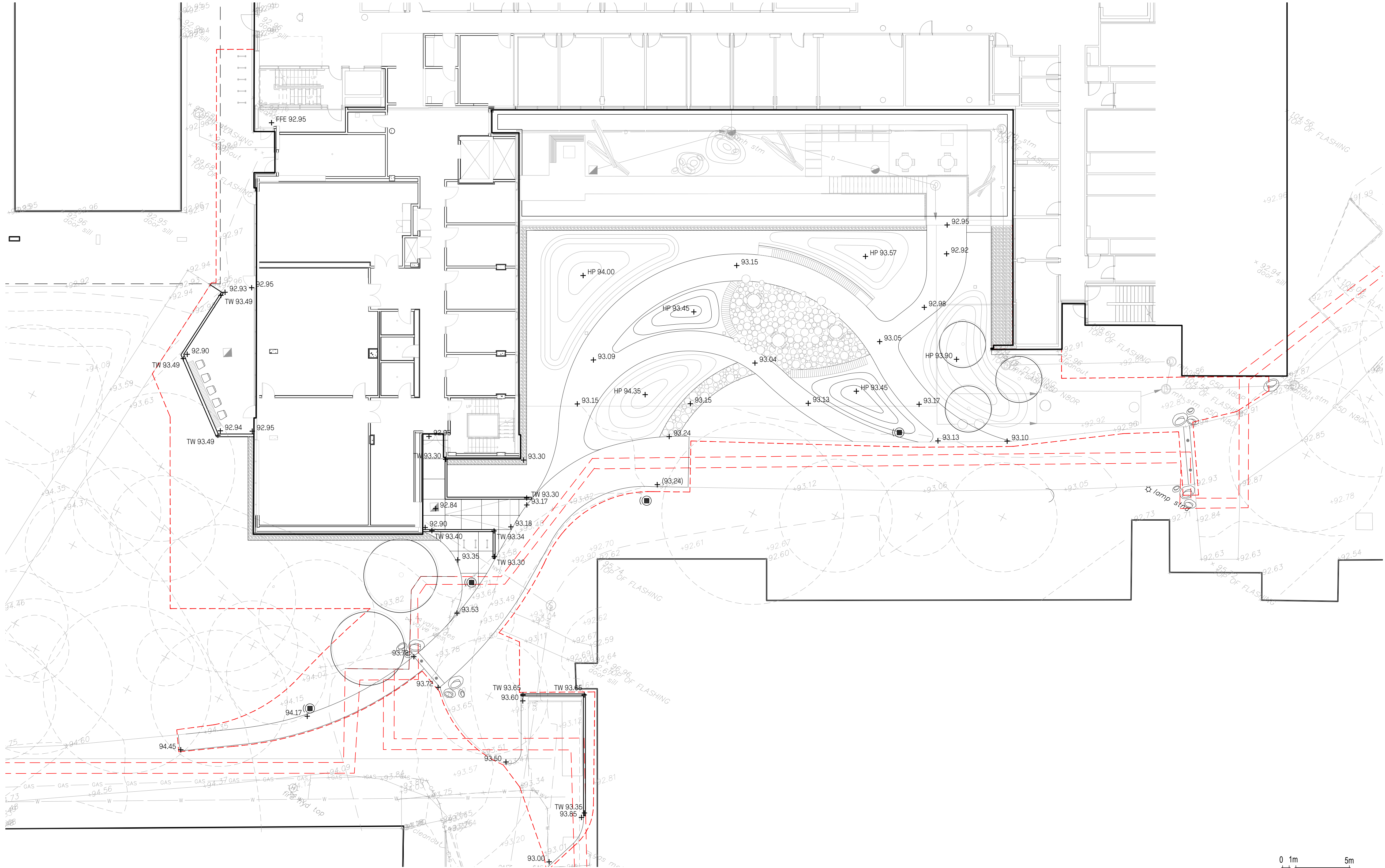
L1.22

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. CONTOUR SHOWN ARE DIAGRAMMATIC AND FINAL FINE GRADING TO BE CONFIRMED IN THE FIELD.

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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Beaty Biodiversity Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

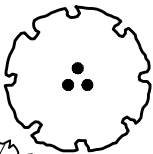
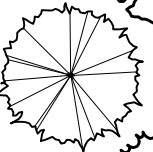
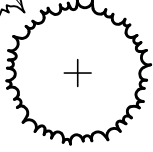






















PROJECT CODE
2122
SCALE
1:150 m.

Grading Plan Site Plan

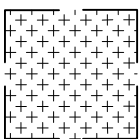
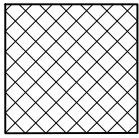
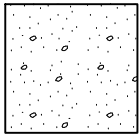
SHEET

L1.31

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS
	AC	2	Acer circinatum / Vine Maple	2.4m ht	As Shown	B&B, Multi-Stemmed, Dense Tree
	PE	4	Prunus emarginata / Bitter Cherry	2.4m ht	As Shown	B&B, Well Branched, Dense Tree
	PD2	2	Pseudotsuga menziesii / Douglas Fir	3.0m ht.	As Shown	B&B, Uniform Branching, Dense Tree
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS
	Ba	5	Berberis aquifolium / Oregon Grape	#3 Pot	90cm	Well Established
	Cr2	4	Cornus sericea / Red Twig Dogwood	#2 Pot	90cm	Well Established
	Lc2	6	Lonicera ciliosa / Orange Honeysuckle	#3 Pot	60cm	Well Established
	Pw	4	Philadelphus lewisii / Wild Mockorange	#3 Pot	90cm	Well Established
	Rs	9	Ribes sanguineum / Red Flowering Currant	#2 Pot	100cm	Well Established
	Rn	4	Rosa nutkana / Nootka Rose	#2 Pot	90cm	Well Established
	Rs2	4	Rubus spectabilis / Salmonberry	#2 Pot	100cm	Well Established
	Sa	7	Symphoricarpos albus / Common White Snowberry	#2 Pot	75cm	Well Established
	Vc	11	Vaccinium caespitosum / Dwarf Blueberry	#2 Pot	45cm	Well Established
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS
	Am2	26	Achillea millefolium / Common Yarrow	Plug	25cm	
	Au	26	Agastache urticifolia / Nettleleaf Giant Hyssop	Plug	60cm	
	Au2	38	Arctostaphylos uva-ursi / Kinnikinnick	#1 Pot	As Shown	
	Aa3	9	Astilbe x arendsii / Astilbe	Plug	35 cm	
	Cq	38	Camassia quamash / Small Camas	Plug	30cm	
	Cr	15	Campanula rotundifolia / Harebell	Plug	25cm	
	Da	14	Digitalis purpurea 'Alba' / White Foxglove	Plug	35 cm	
	Ea	16	Epilobium angustifolium / Fireweed	Plug	30cm	
	Fc	12	Fragaria chiloensis / Beach Strawberry	Plug	30cm	
	Lc	18	Lilium columbianum / Tiger Lily	Plug	30cm	
	Lp	34	Lupinus polyphyllus / Large-leaved Lupine	Plug	35 cm	
	Pd	13	Penstemon davidsonii / Davidson's Penstemon	Plug	30cm	
	Tt	14	Tiarella trifoliata / Threeleaf Foamflower	Plug	35 cm	

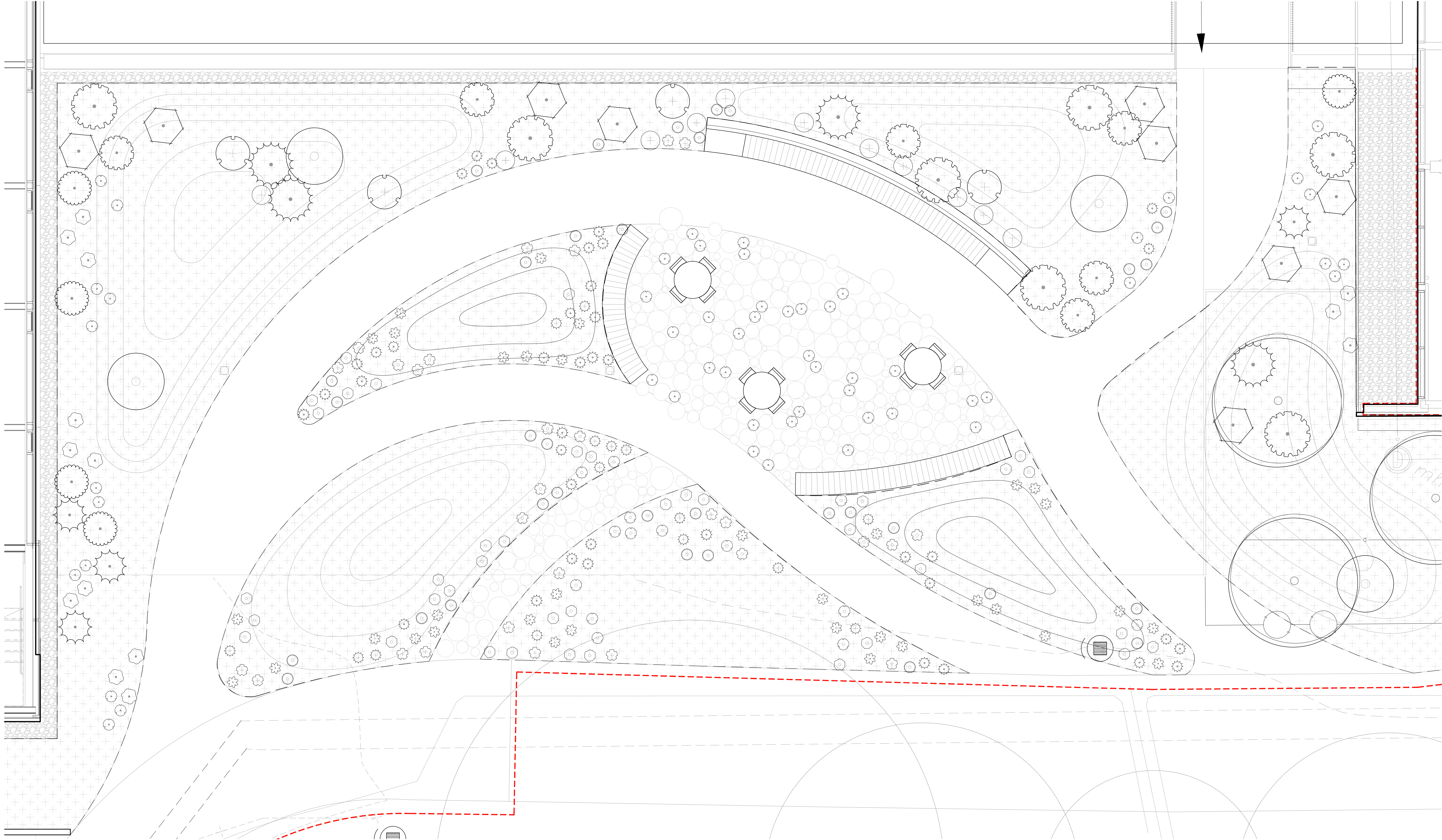
CONCEPT PLANT SCHEDULE

	<u>POLLINATOR MEADOW SEED BLEND</u>	430.6 m²		
	Allium cernuum / Nodding Onion			0.38%
	Anaphalis margaritacea / Pearly Everlasting			1.69%
	Calamagrostis canadensis / Bluejoint Grass			10.43%
	Clarkia amoena / Farewell to Spring			19.23%
	Coreopsis lanceolata / Lanceleaf Tickseed			2.5%
	Danthonia californica / California Oatgrass			6.58%
	Deschampsia cespitosa / Tufted Hair Grass			13.27%
	Festuca rubra / Red Fescue			6.32%
	Gaillardia aristata / Blanket Flower			1.65%
	Hedysarum boreale / Utah Sweetvetch			1.47%
	Linum lewisii / Lewis Flax			4.21%
	Lupinus polyphyllus / Large-leaved Lupine			0.24%
	Rudbeckia hirta / Black-eyed Susan			14.33%
	Solidago multiradiata / Rocky Mountain Goldenrod			17.7%
	<u>SHADE TOLERANT MIX</u>	92 m²		
	Adiantum aleuticum / Western Maidenhair Fern		#1 Pot, 40cm	20% @ 0.4m oc
	Blechnum spicant / Deer Fern		#1 Pot, 40cm	20% @ 0.4m oc
	Gaultheria shallon / Salal		#1 Pot, 40cm	20% @ 0.4m oc
	Polystichum munitum / Western Sword Fern		#1 Pot, 45cm	20% @ 0.45m oc
	Rubus spectabilis / Salmonberry		#2 Pot, 900mm	20% @ 0.9m oc
	<u>UBC BIODIVERSITY LAWN MIX</u>	140 m²		
	-			

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L1.42



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E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTIN
F.	SEPT 22, 2022	ISSUED DP R3

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Beaty Biodiversity Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE
1:50 m.

Enlarged Planting Plan Level 1

SHEET
L1.43

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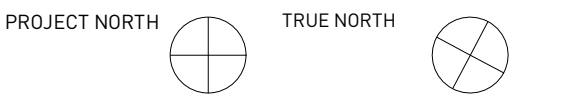
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Beaty
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Centre Addition

2212 MAIN MALL, VANCOUVER BC



PROJECT CODE
2122
SCALE

Planting Schedule
Basement Level

PLANT SCHEDULE

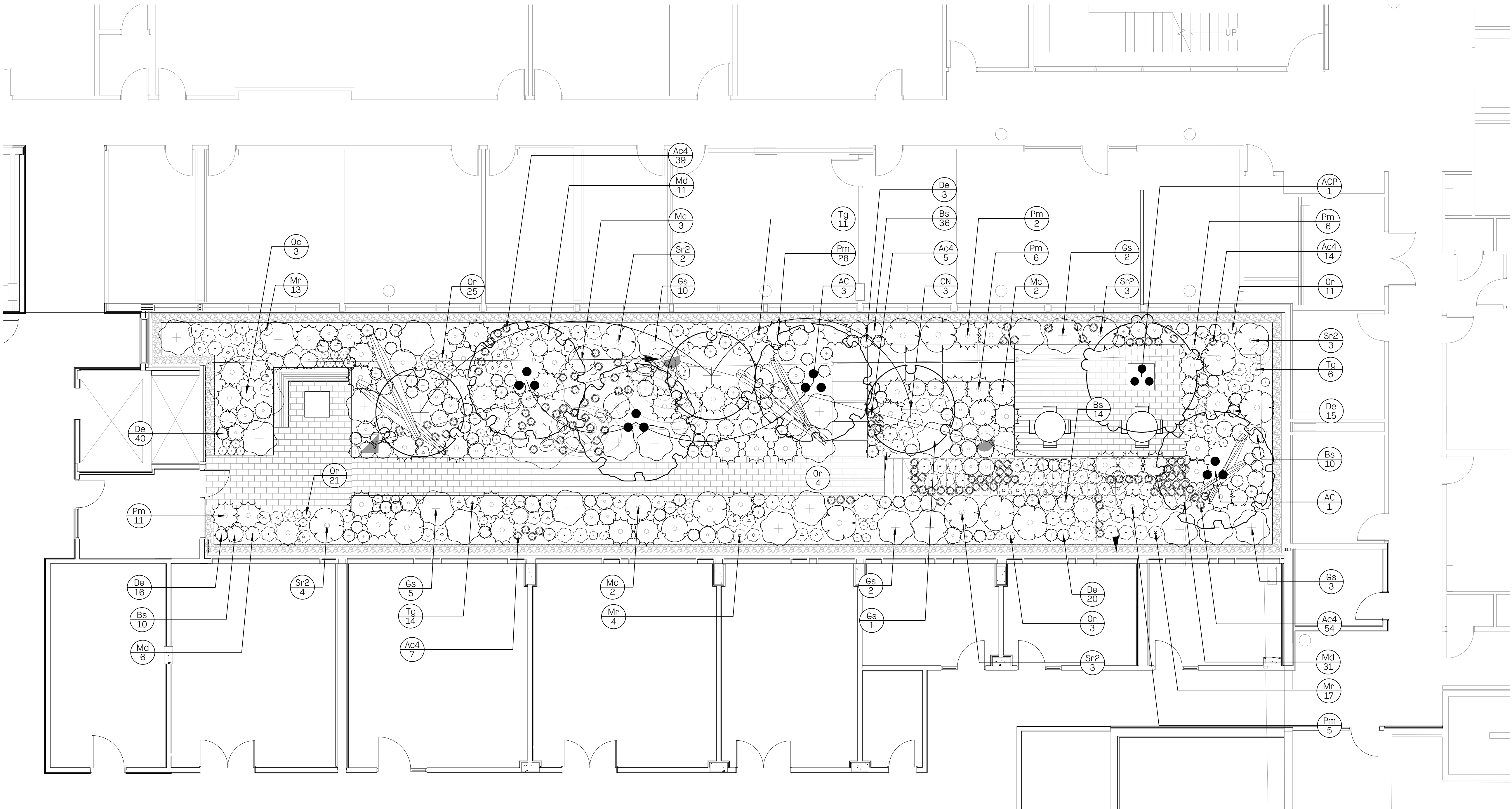
TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	AC	4	Acer circinatum / Vine Maple	2.4m ht	As Shown	B&B, Multi-Stemmed, Dense Tree	
	ACP	1	Acer circinatum 'Pacific Fire' / Pacific Fire Vine Maple	8cm cal.	As Shown	B&B, Specimen, Densely Branched	
	CN	3	Cornus nuttallii / Pacific Dogwood	6cm cal.	As Shown	B&B, Well Branched, Dense Tree	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	Gs	23	Gaultheria shallon / Salal	#2 Pot	45cm	Well Established	
	Mc	7	Mahonia aquifolium 'Compacta' / Compact Oregon Grape	#3 Pot	90cm	Full, Well Established	
	Oc	3	Oemleria cerasiformis / Osoberry	#3 Pot	1500mm	Well Established	
	Sr2	15	Sarcococca ruscifolia / Fragrant Sweetbox	#2 Pot	60cm	Well Established	
FERNS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	Bs	70	Blechnum spicant / Deer Fern	#1 Pot	35 cm	Well Established	
	De	94	Dryopteris erythrosora / Autumn Fern	#1 Pot	45cm	Well Established	
	Pm	58	Polystichum munitum / Western Sword Fern	#1 Pot	45cm	Well Established	
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	Ac4	119	Asarum caudatum / Wild Ginger	#1 Pot	30cm	10cm (4") ht. Dense plant, nursery grown	
	Md	48	Maianthemum dilatatum / False Lily-of-the-Valley	#1 Pot	60cm	Well Established	
	Mr	34	Maianthemum racemosum / False Solomon's Seal	#1 Pot	40 cm.	Well Established	
	Or	64	Oxalis oregana / Redwood Sorrel	#1 Pot	40 cm.	Well Established	
	Tg	31	Tellima grandiflora / Fringecup	#1 Pot	30cm	Well Established	

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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D.	SEPT 07, 2022	ISSUED DP R2
E.	SEPT 15, 2022	ISSUED FOR 40% CD COSTING
F.	SEPT 22, 2022	ISSUED DP R3



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Beaty Biodiversity Centre Addition

2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

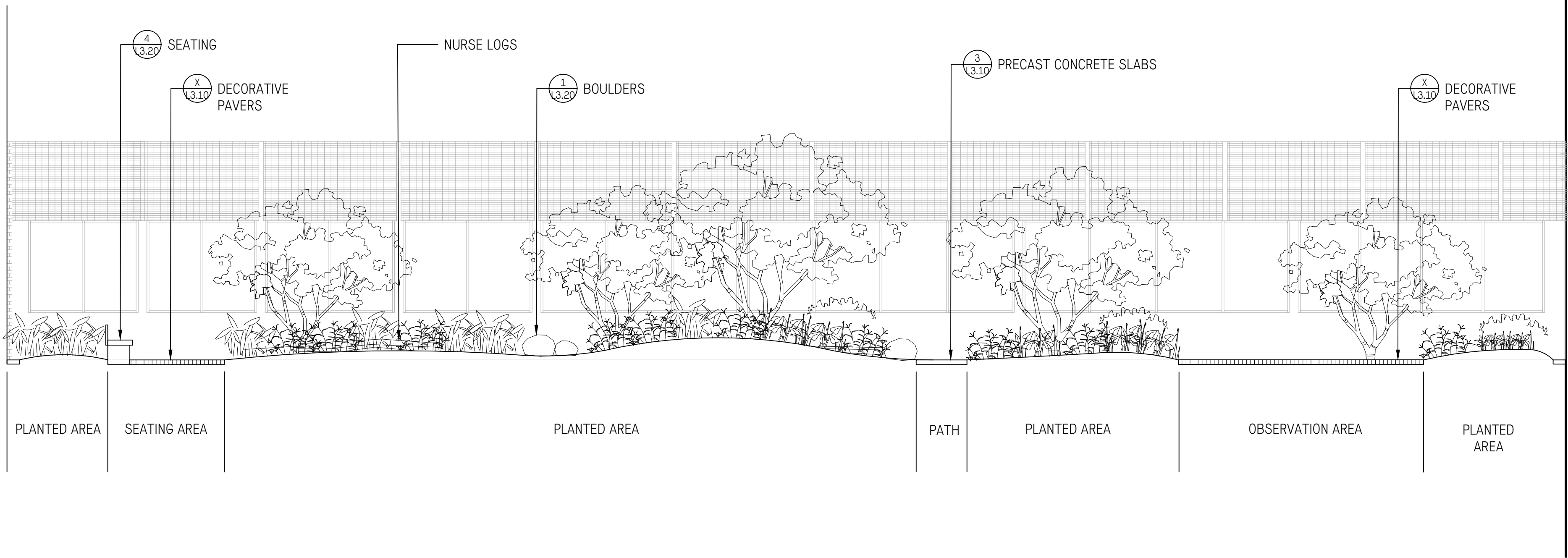
PROJECT CODE
2122
SCALE
1:75 m.

Planting Plan Basement Level

0 1m 5m 10m

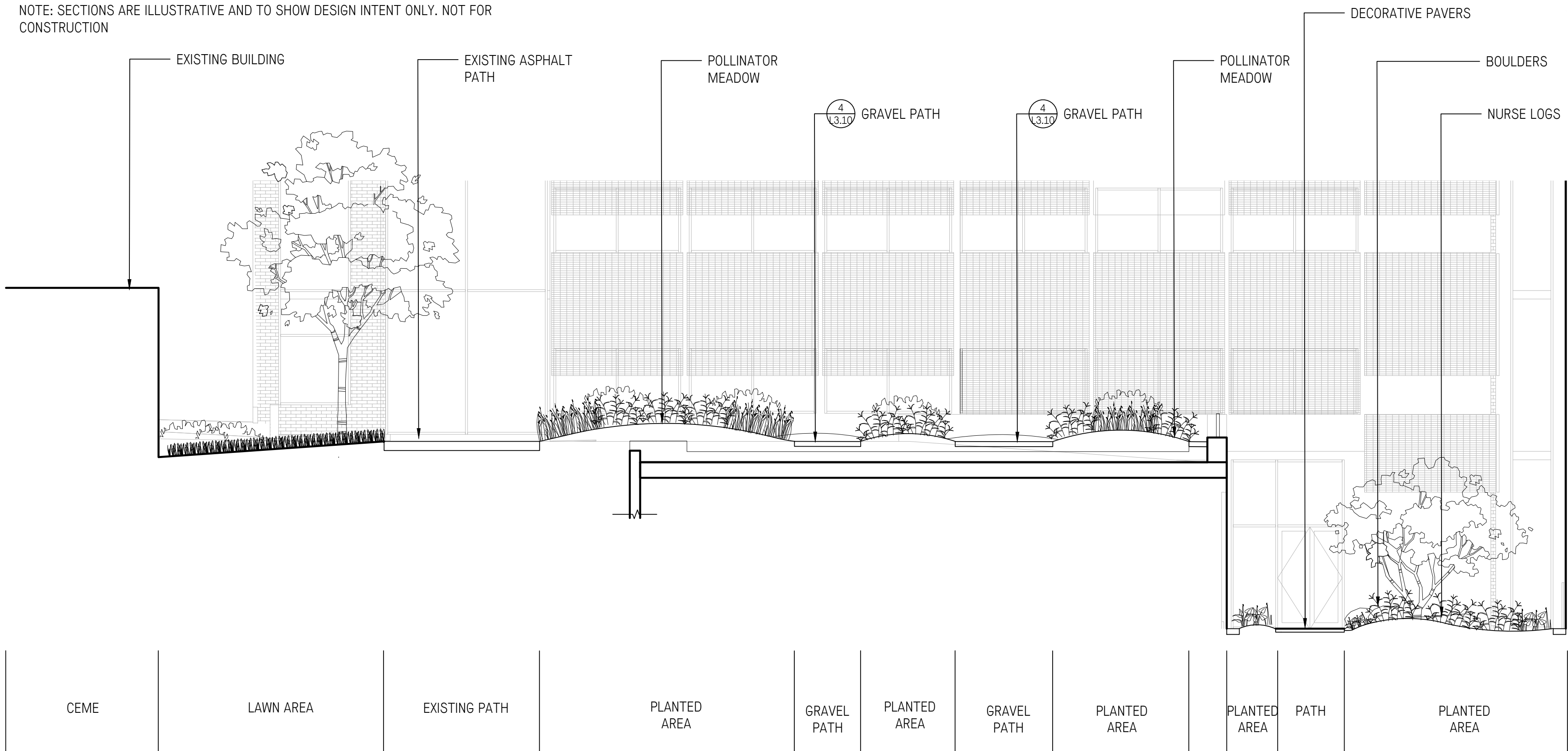
SHEET
L1.45

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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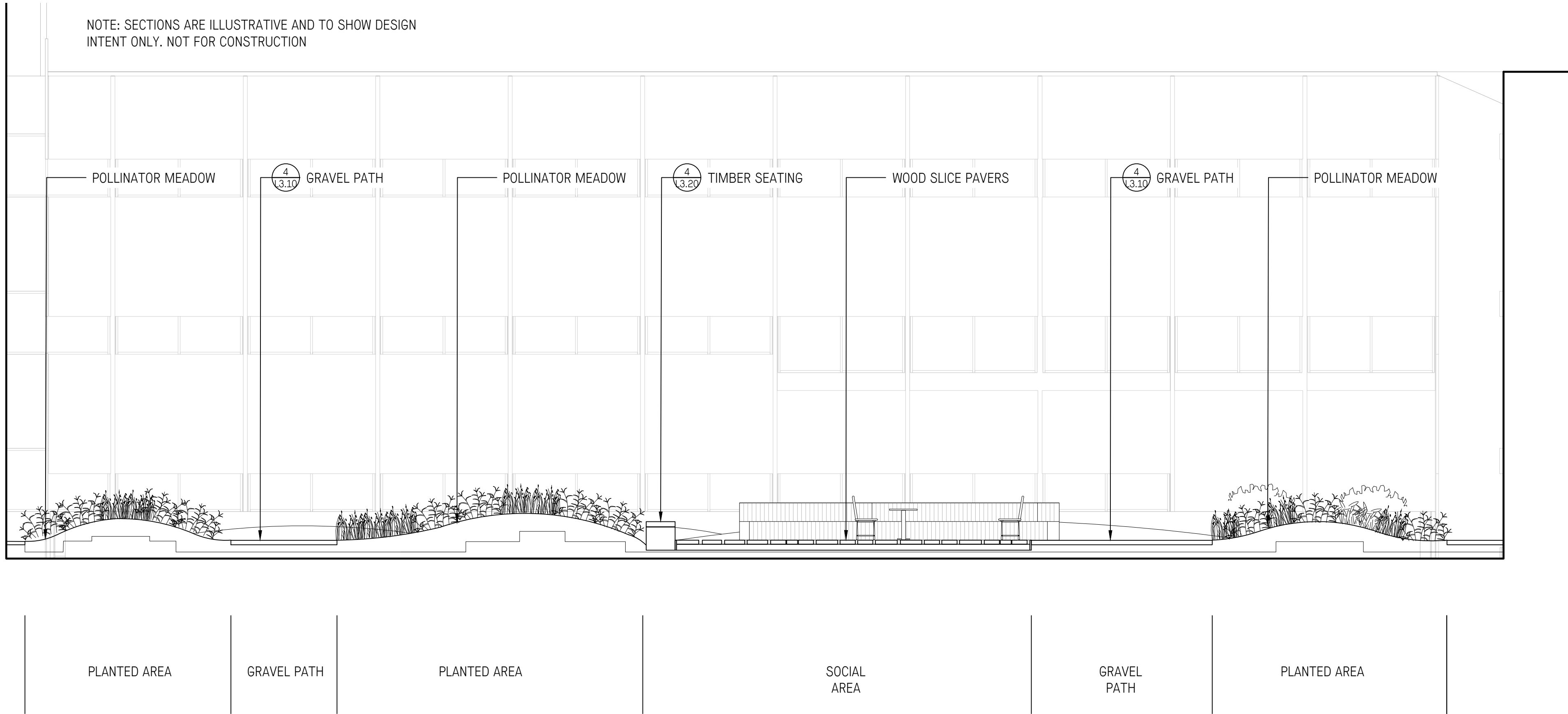
2212 MAIN MALL, VANCOUVER BC

PROJECT NORTH TRUE NORTH

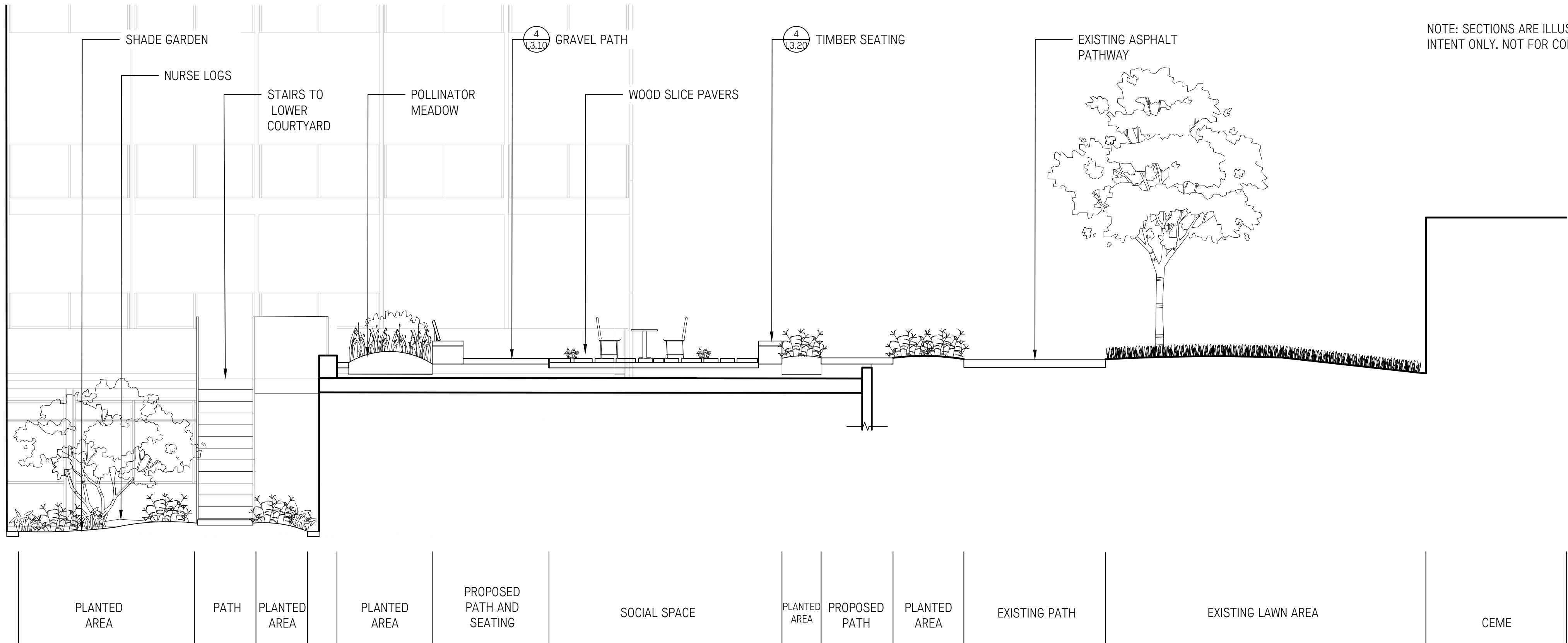
PROJECT CODE
2122
SCALE

1:75 m.

Sections



1 SECTION C-C'
1:75



2 SECTION D-D'
1:75

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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE

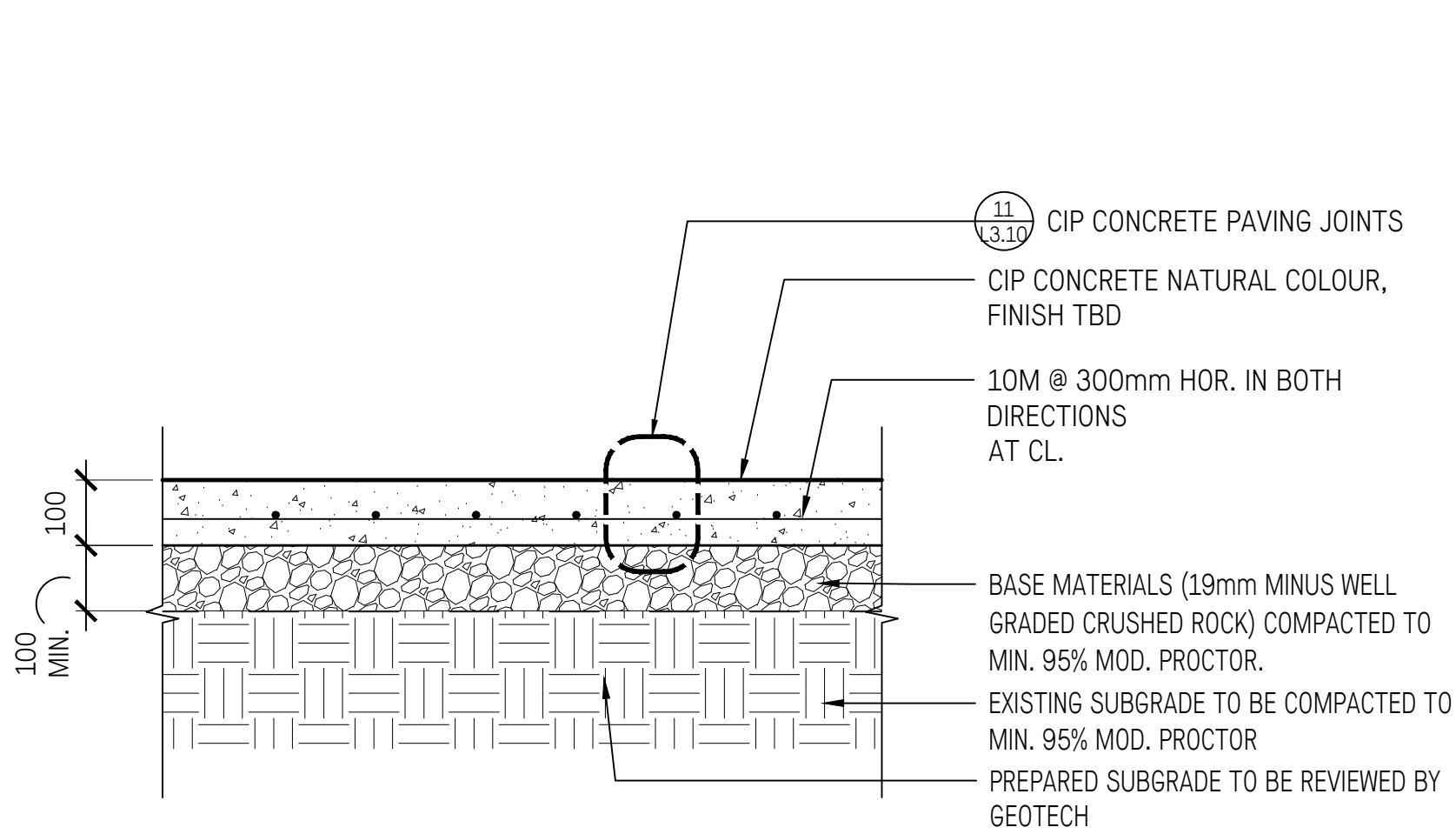
1:75 m.

Sections

SHEET

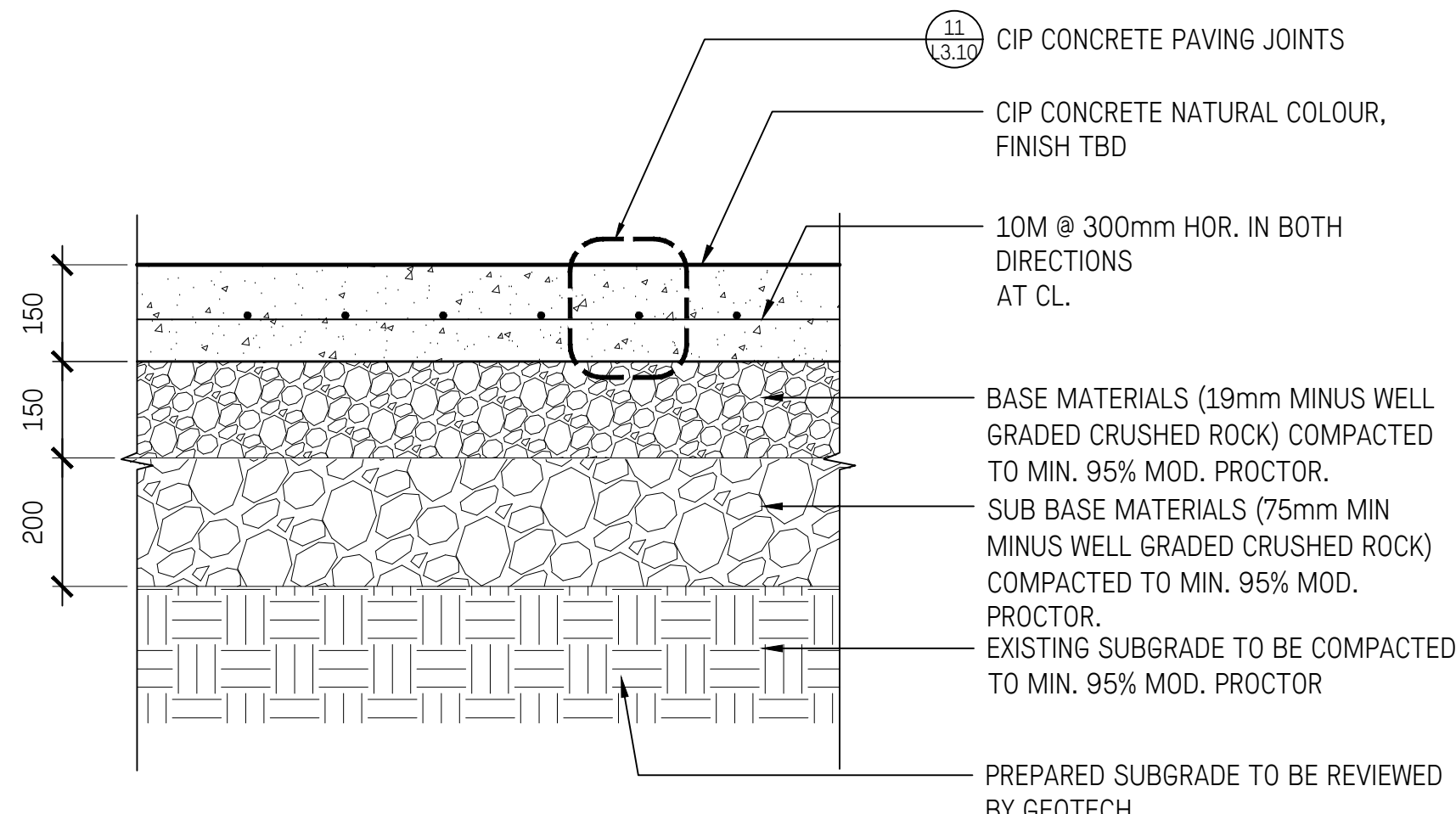
L2.02

ISSUES + REVISIONS		DESCRIPTION
A.	MARCH 29, 2022	ISSUED FOR DP
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F.	SEPT 22, 2022	ISSUED DP R3



ON GRADE - PEDESTRIAN USE

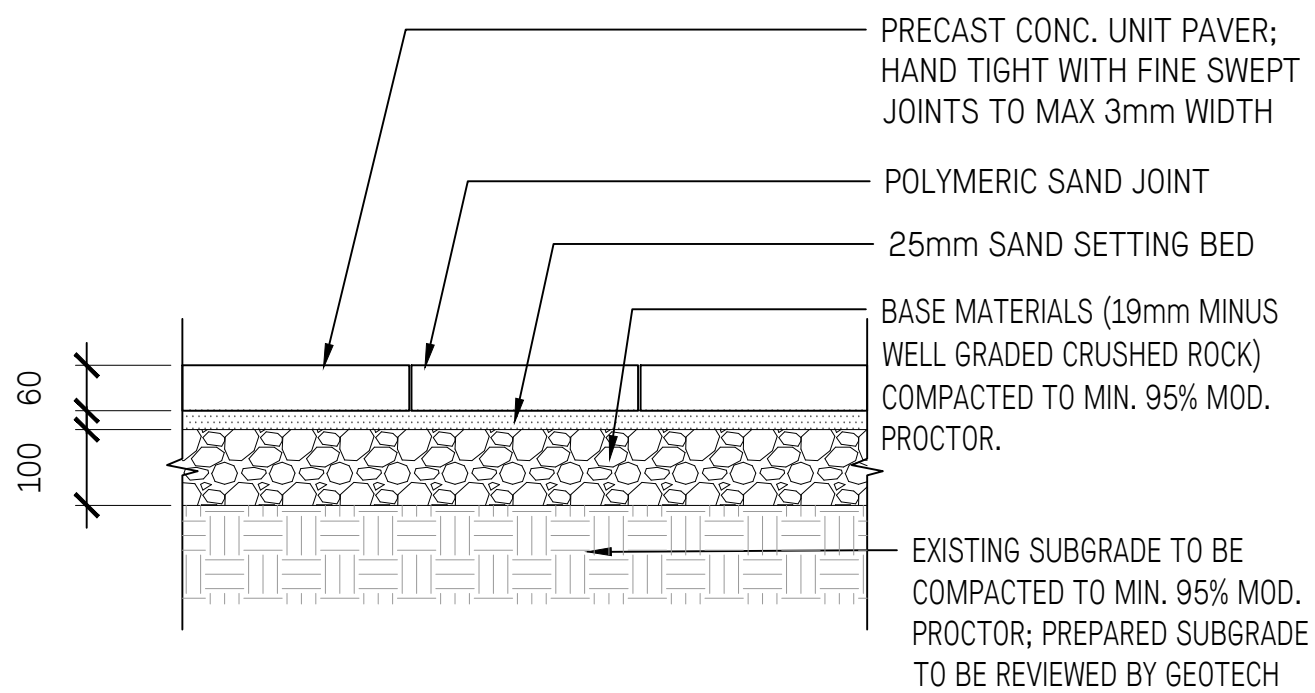
1
-
PAVING TYPE 1 - CIP CONCRETE ON GRADE
1:10



ON GRADE - VEHICULAR USE

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

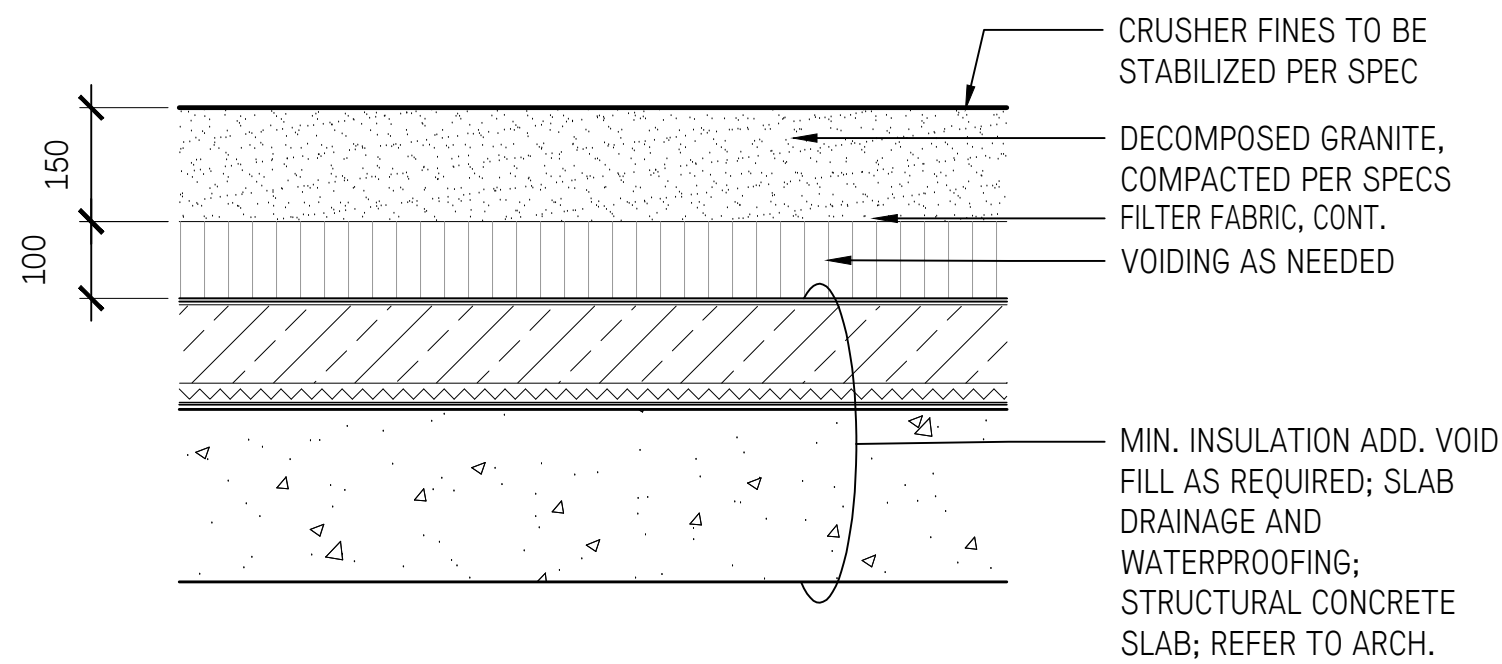
- NOTES:
1. ORIGIN OF PAVING PATTERN TO BE CAREFULLY CONSIDERED, CONFIRM WITH LANDSCAPE ARCHITECT BEFORE CONSTRUCTION;
 2. PAVERS WILL NOT BE CUT SMALLER THAN 1/3 OF A UNIT.
 3. PAVER TYPE 3 TO MATCH EXISTING - 12"x24" 'TEXADA' PAVER BY ABBOTSFORD CONCRETE PRODUCTS. PAVER TYPE 5 - TBD
 4. STOCKPILED PAVERS IN GOOD CONDITION MAY BE REUSED.



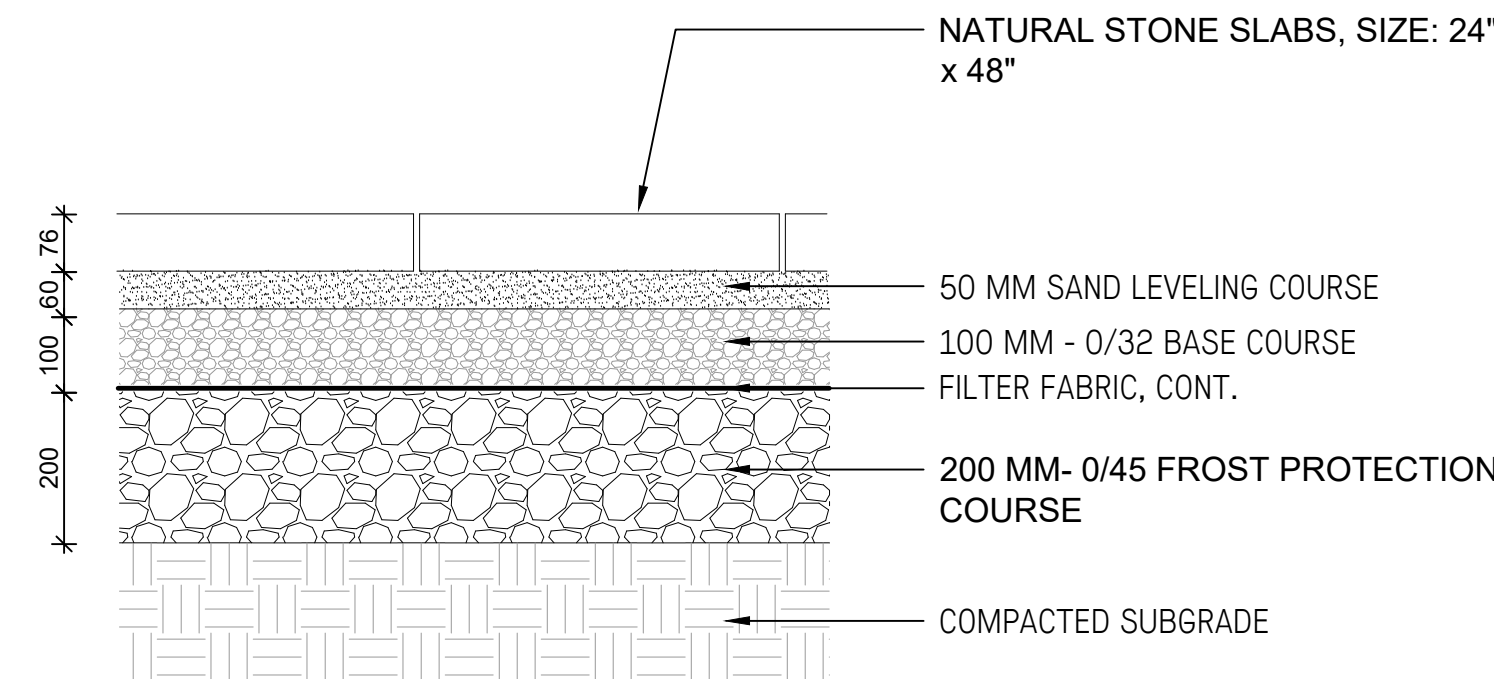
ON GRADE - PEDESTRIAN

3
-
PAVING - PAVERS ON GRADE
1:10

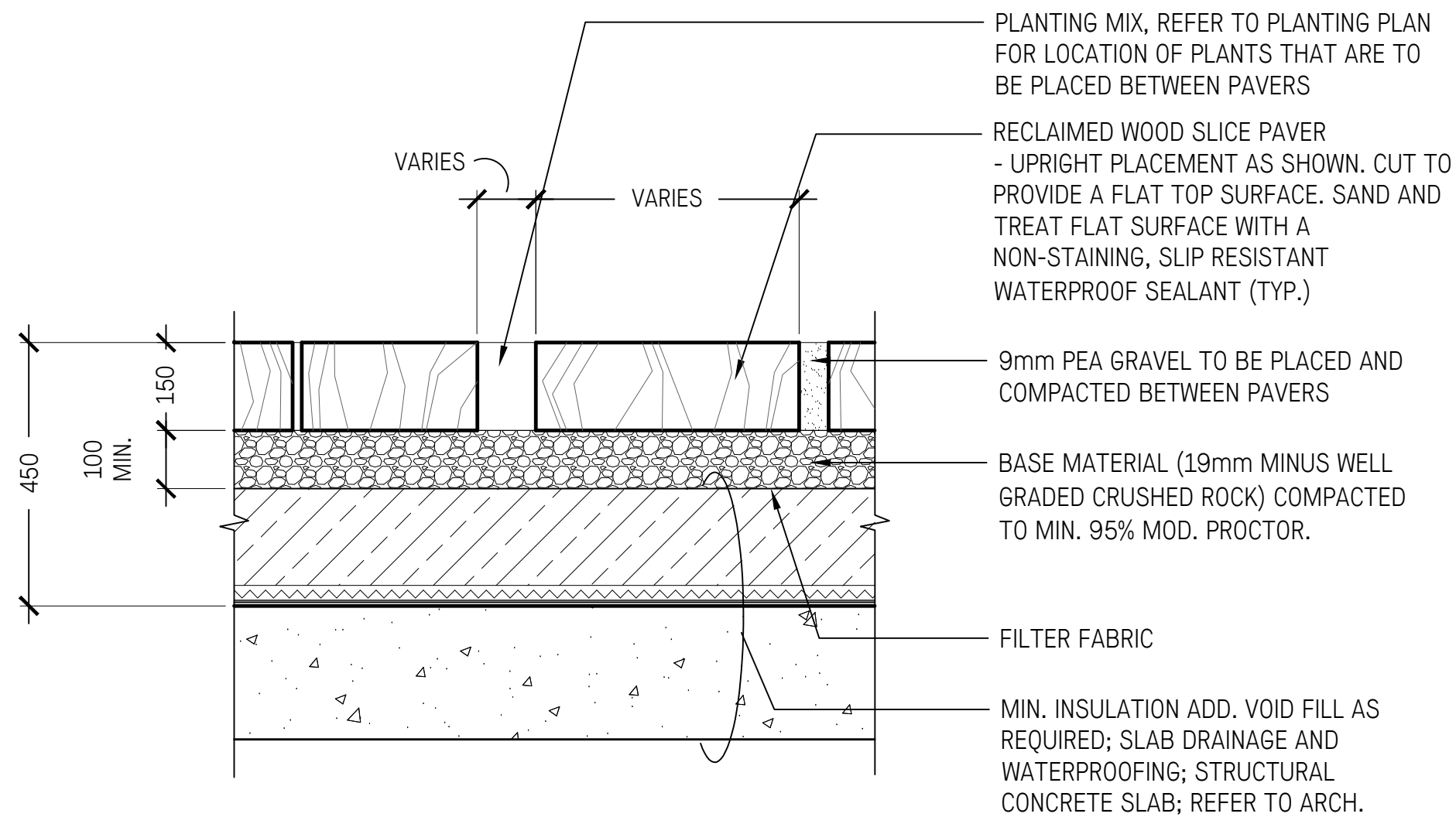
- NOTES:
1. RECLAIMED WOOD SLICE PAVERS TO BE COORDINATED WITH UBC AND THE PROJECT ARBORIST. INTENT IS FOR PAVERS TO BE FROM TREE THAT ARE TO BE REMOVED AS PART OF THE PROJECT WORKS.
 2. LOCATE WOOD SLICE PAVERS AS PER PLANS, MOCK-UP TO BE CONFIRMED ON-SITE WITH LANDSCAPE ARCHITECT.
 3. MAX 25mm GAP 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



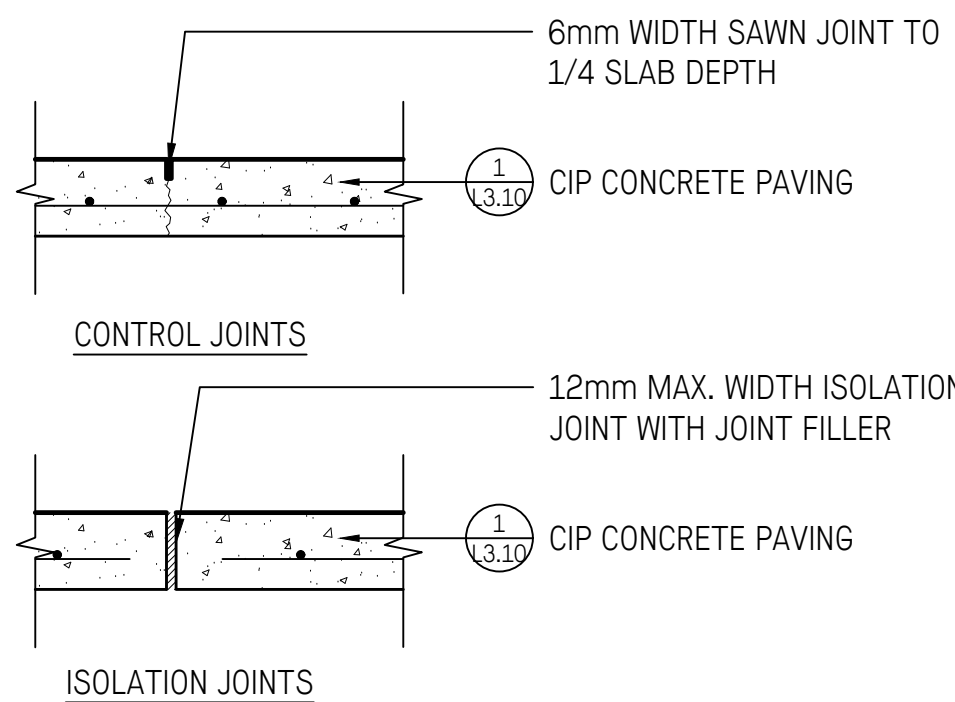
5
-
PAVING TYPE 3 - PAVERS ON GRADE
1:10



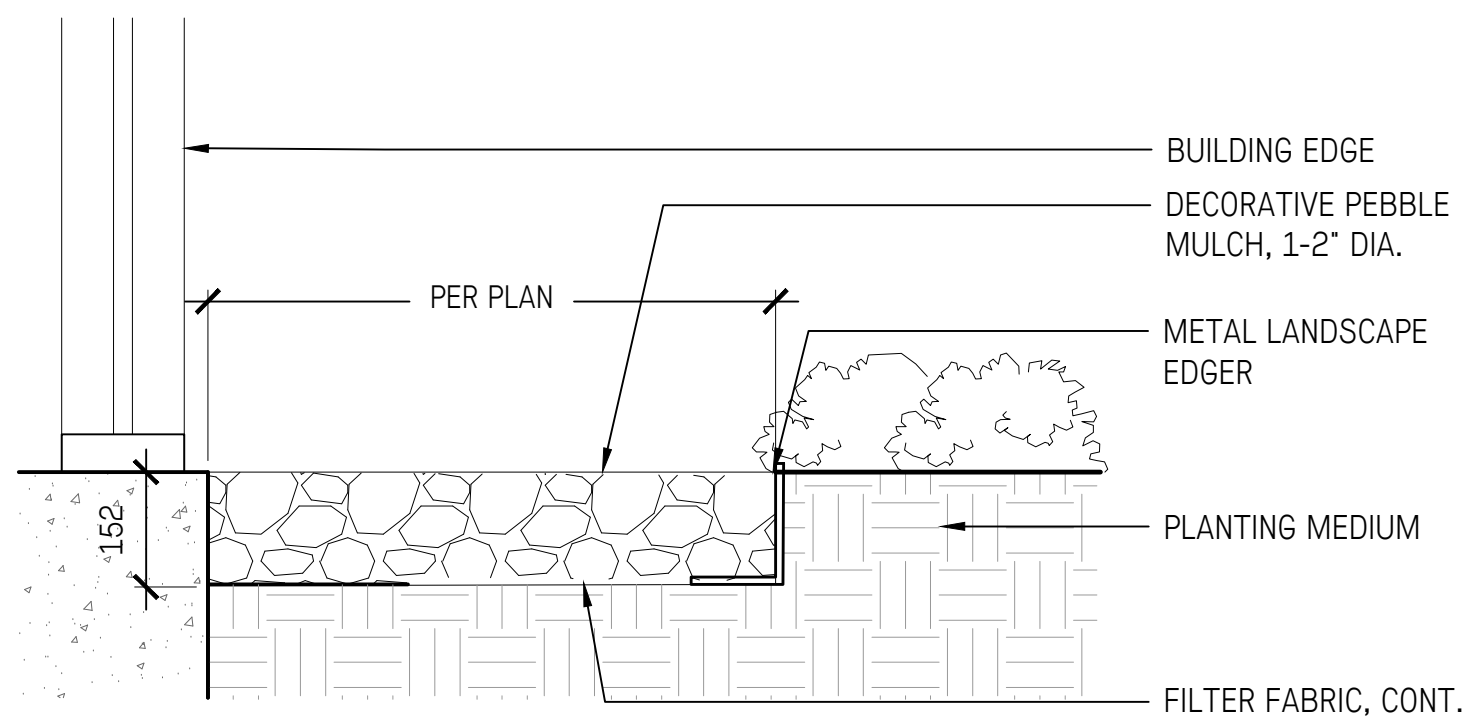
ON SLAB

6
-
WOOD SLICE PAVER
1:10

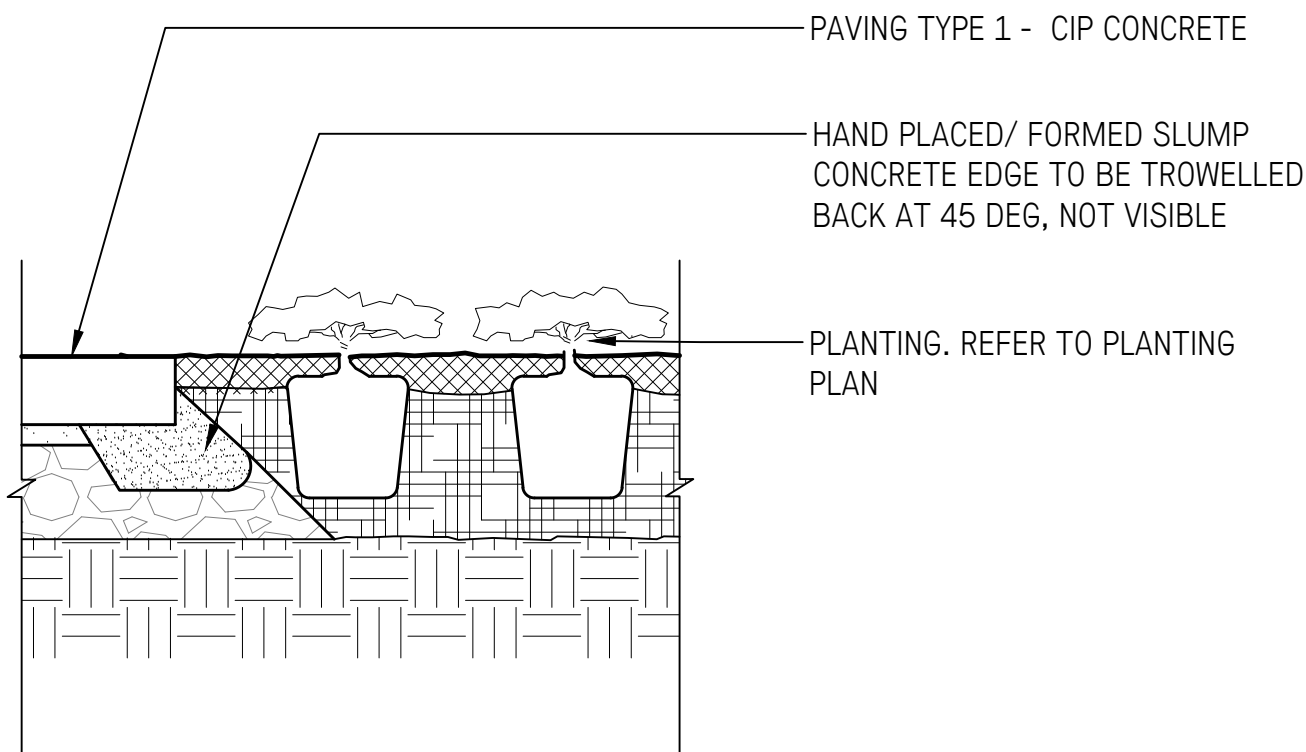
- NOTES:
1. CONSTRUCT ALL CONTROL JOINTS AT CONSISTENT WIDTH;
 2. CUT JOINTS BEFORE RANDOM CRACKING OCCURS;
 3. C-2 SAWCUT CONTROL JOINTS WITHIN 18 HOURS OF FINISHING SLABS REFER TO LAYOUT PLAN.



9
-
CIP CONCRETE PAVING JOINTS
1:10



7
-
MAINTAINANCE GRAVEL STRIP
1:10



8
-
CONCRETE HIDDEN EDGE RESTRAINT AT PLANTING EDGE
1:10

- 1

LANDSCAPE BOULDER

1:10
- 2

BIKE RACK

1:10
- 3

CUSTOM TIMBER BENCH

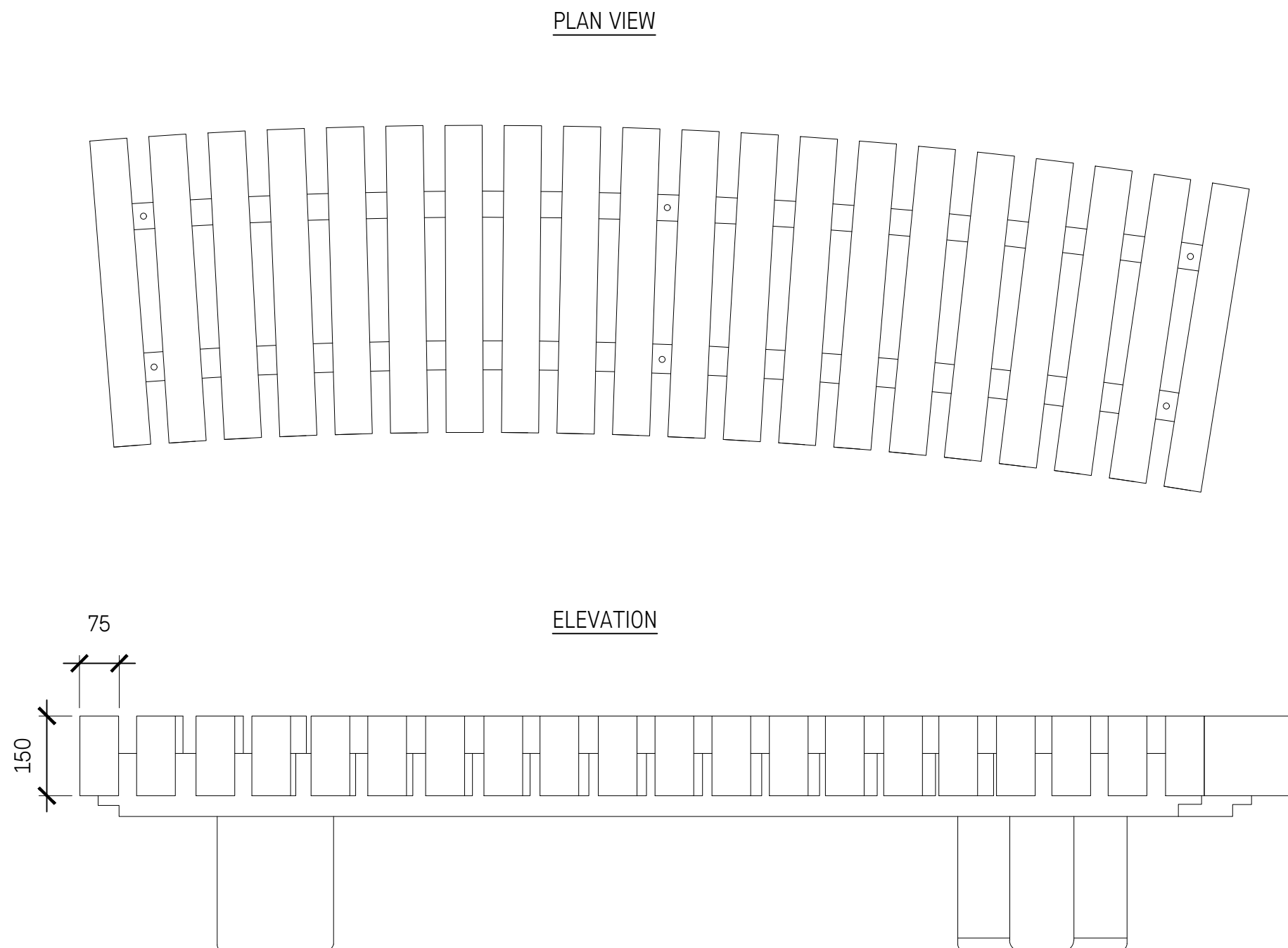
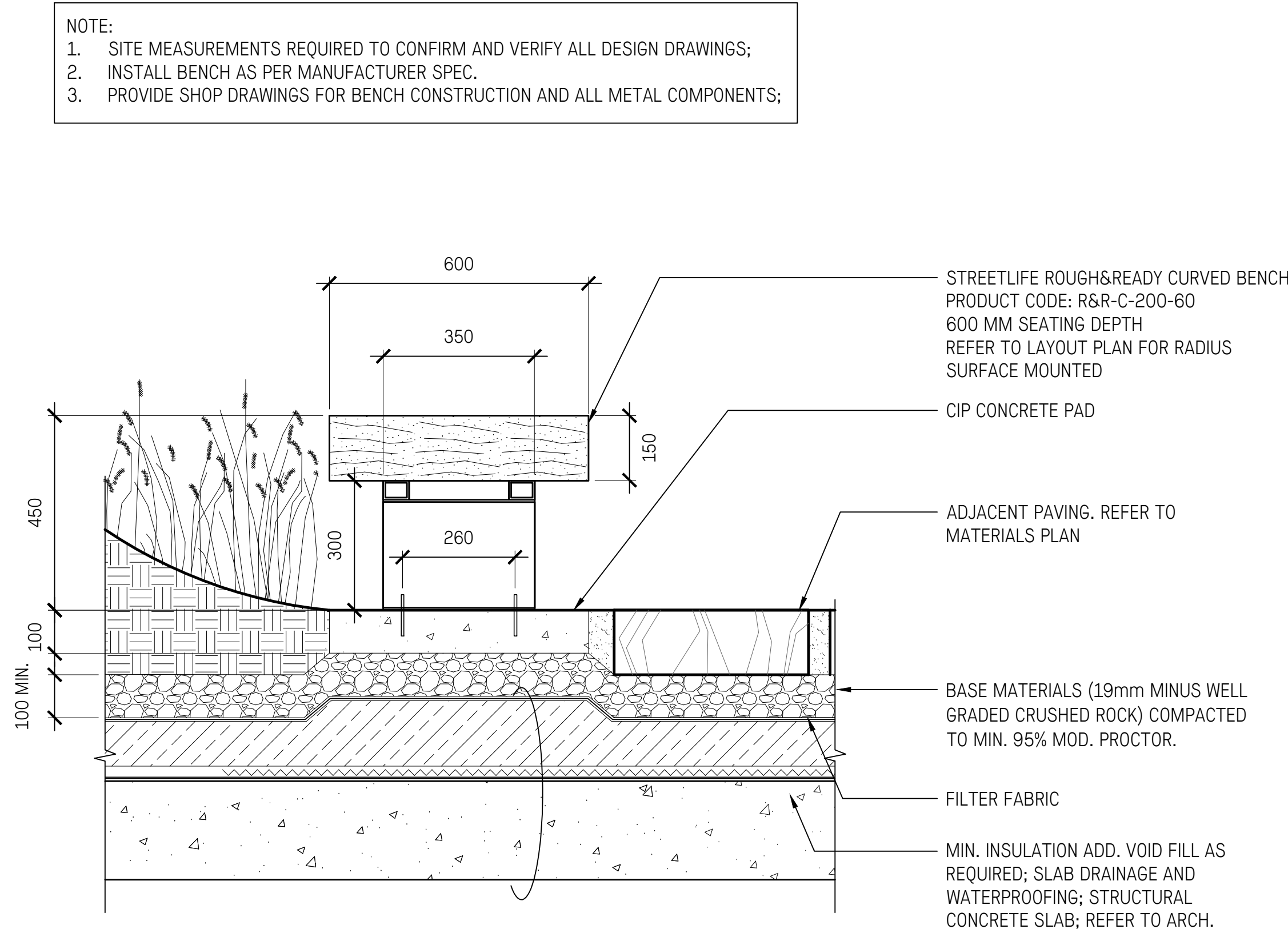
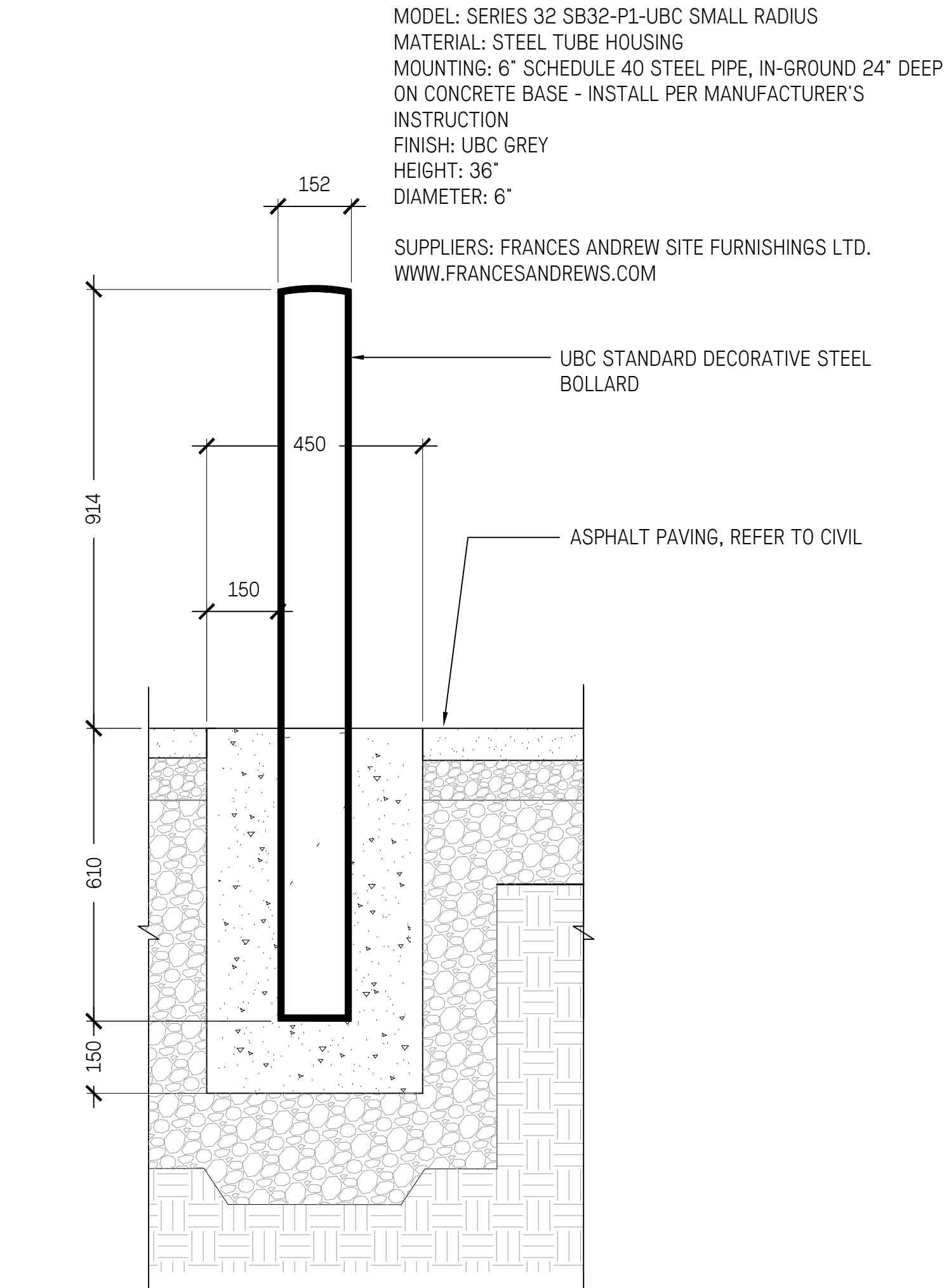
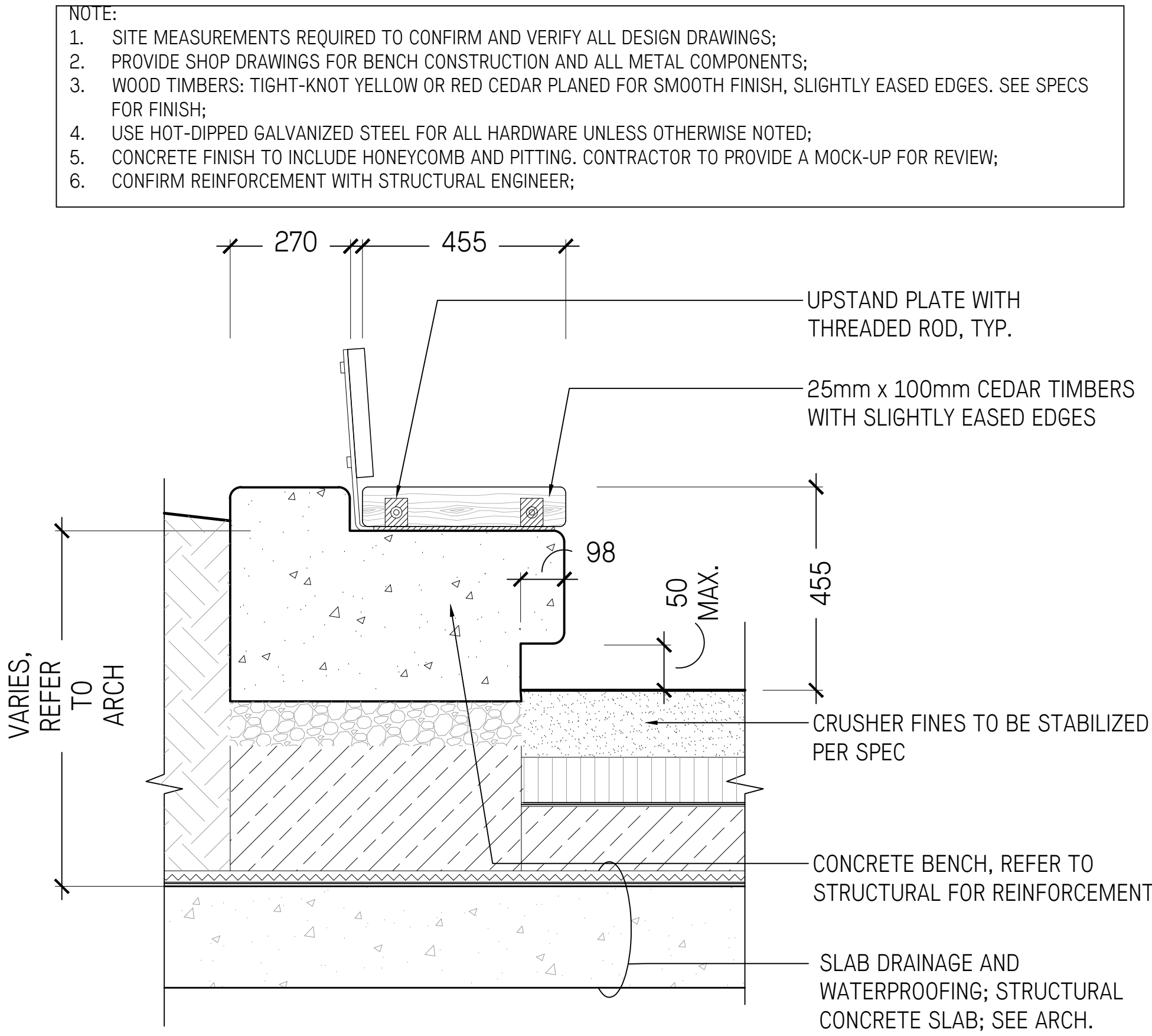
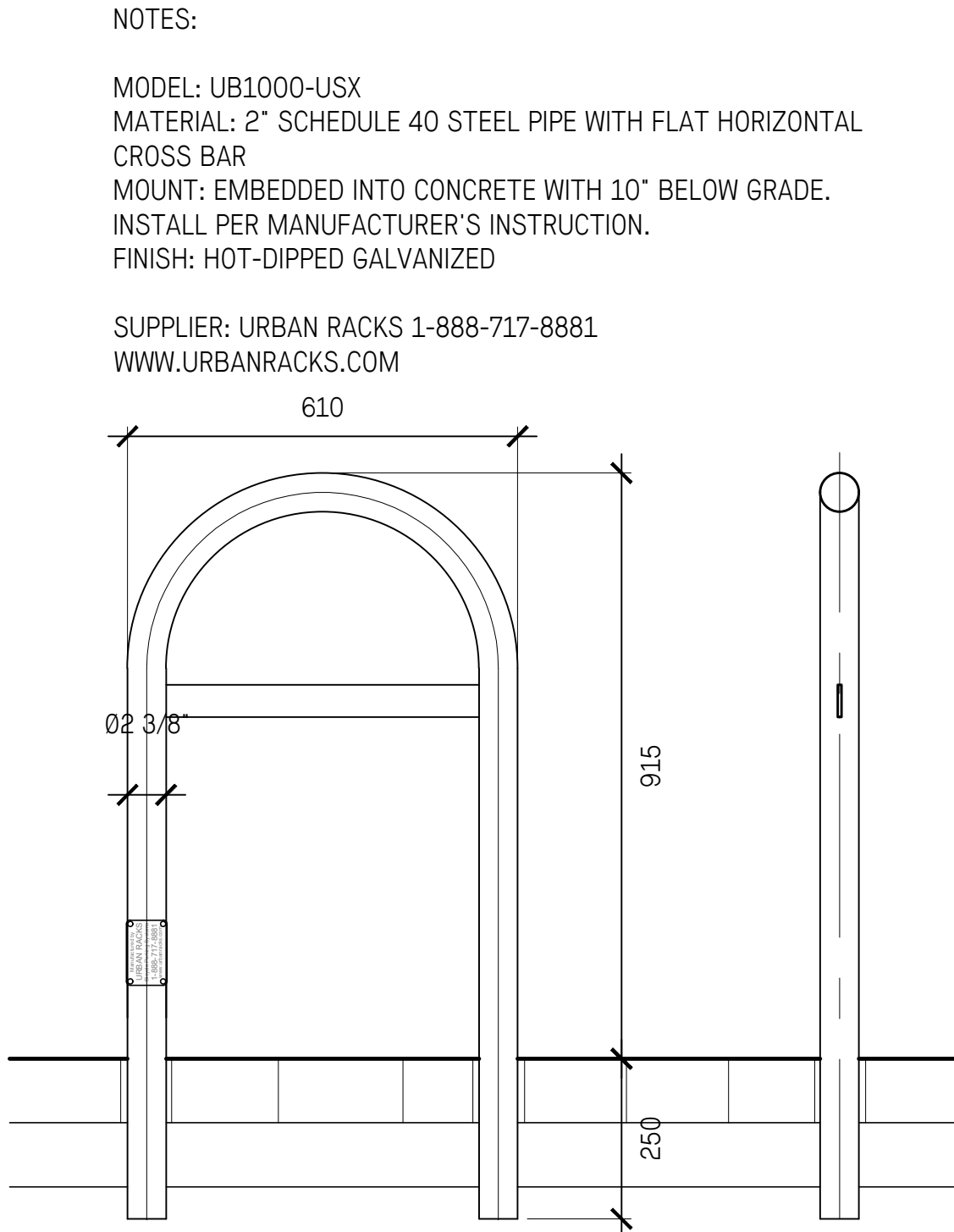
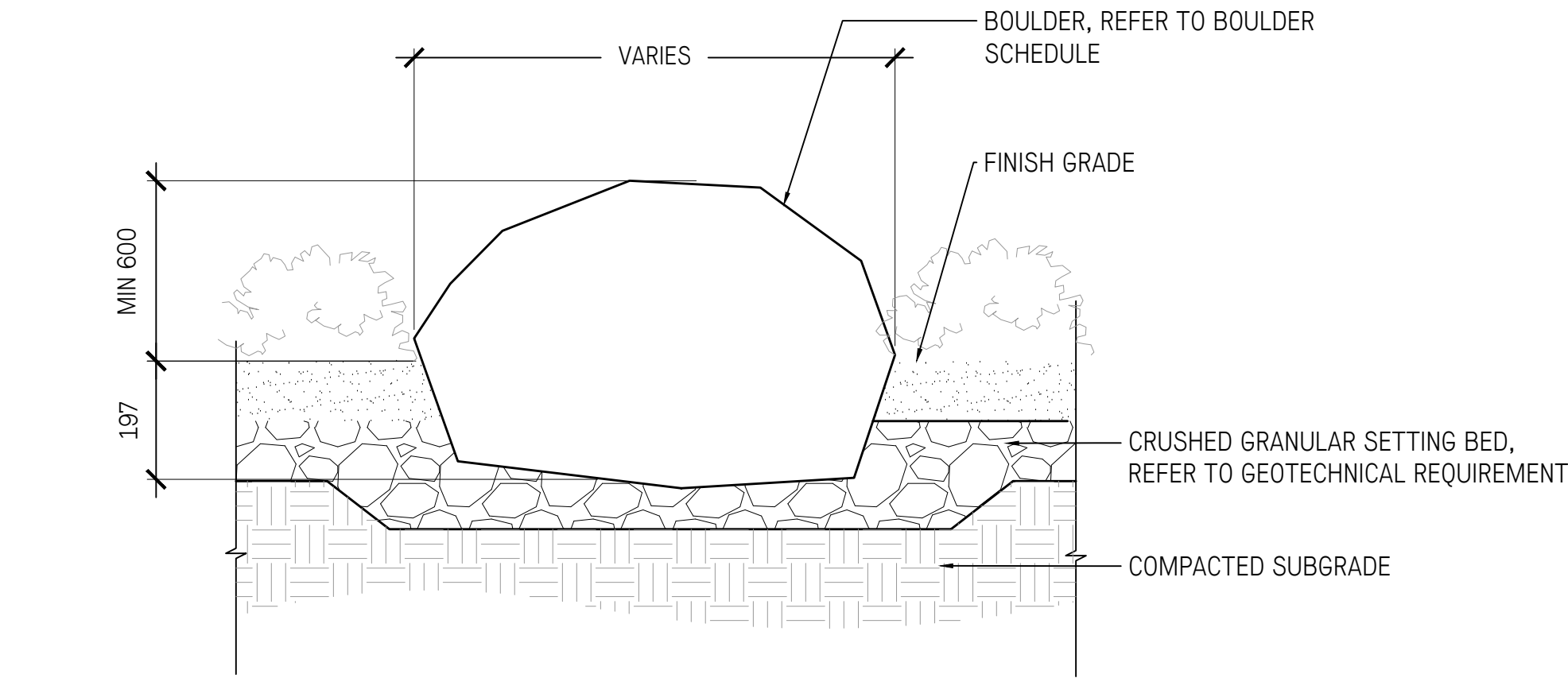
1:10
- 4

BOLLARDS

1:20
- 5

ROUGH&READY CURVED BENCH

1:10



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F.	SEPT 22, 2022	ISSUED DP R3

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PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE

Site Furnishing Details

SHEET
L3.20

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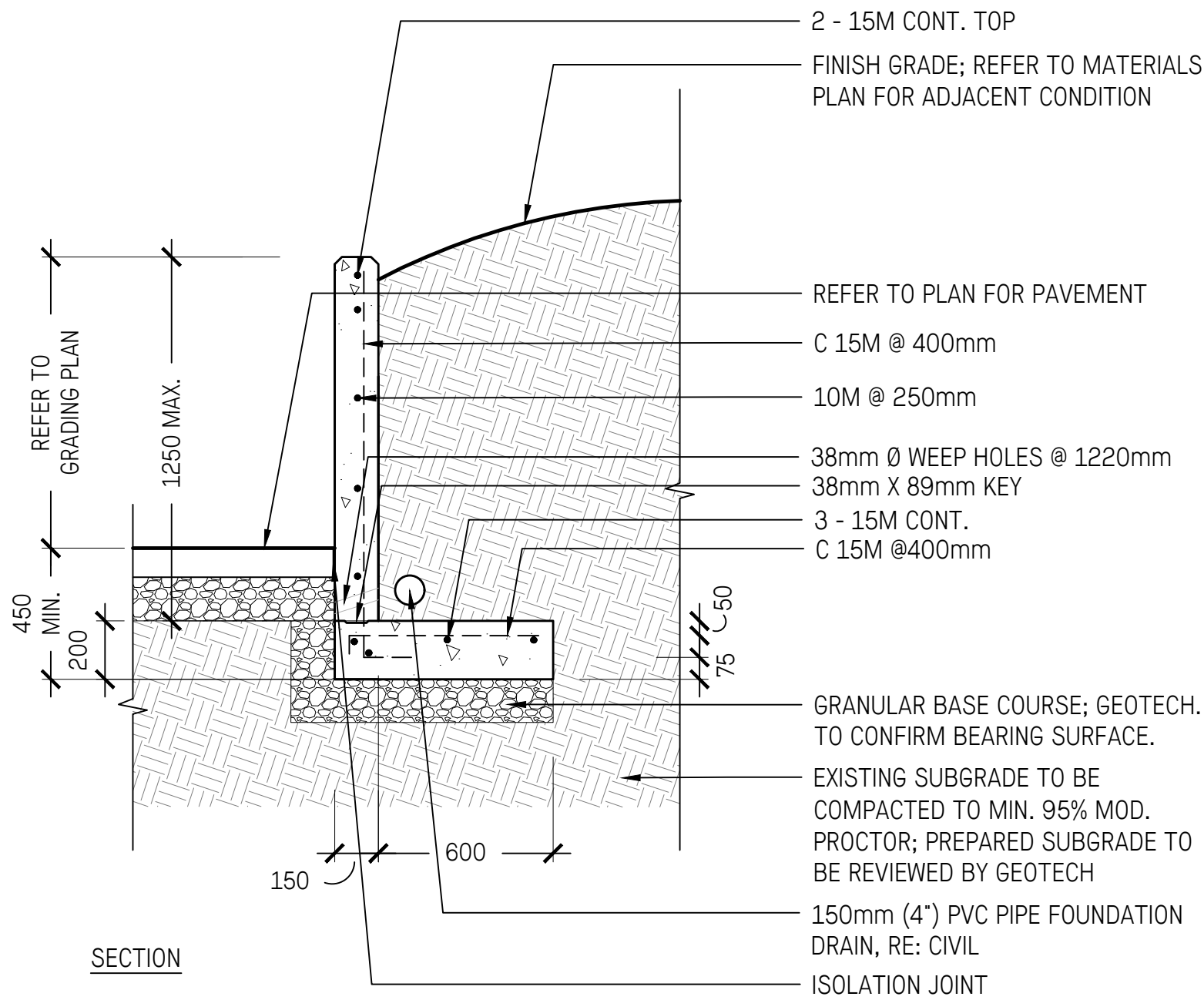
PROJECT NORTH TRUE NORTH

PROJECT CODE
2122
SCALE

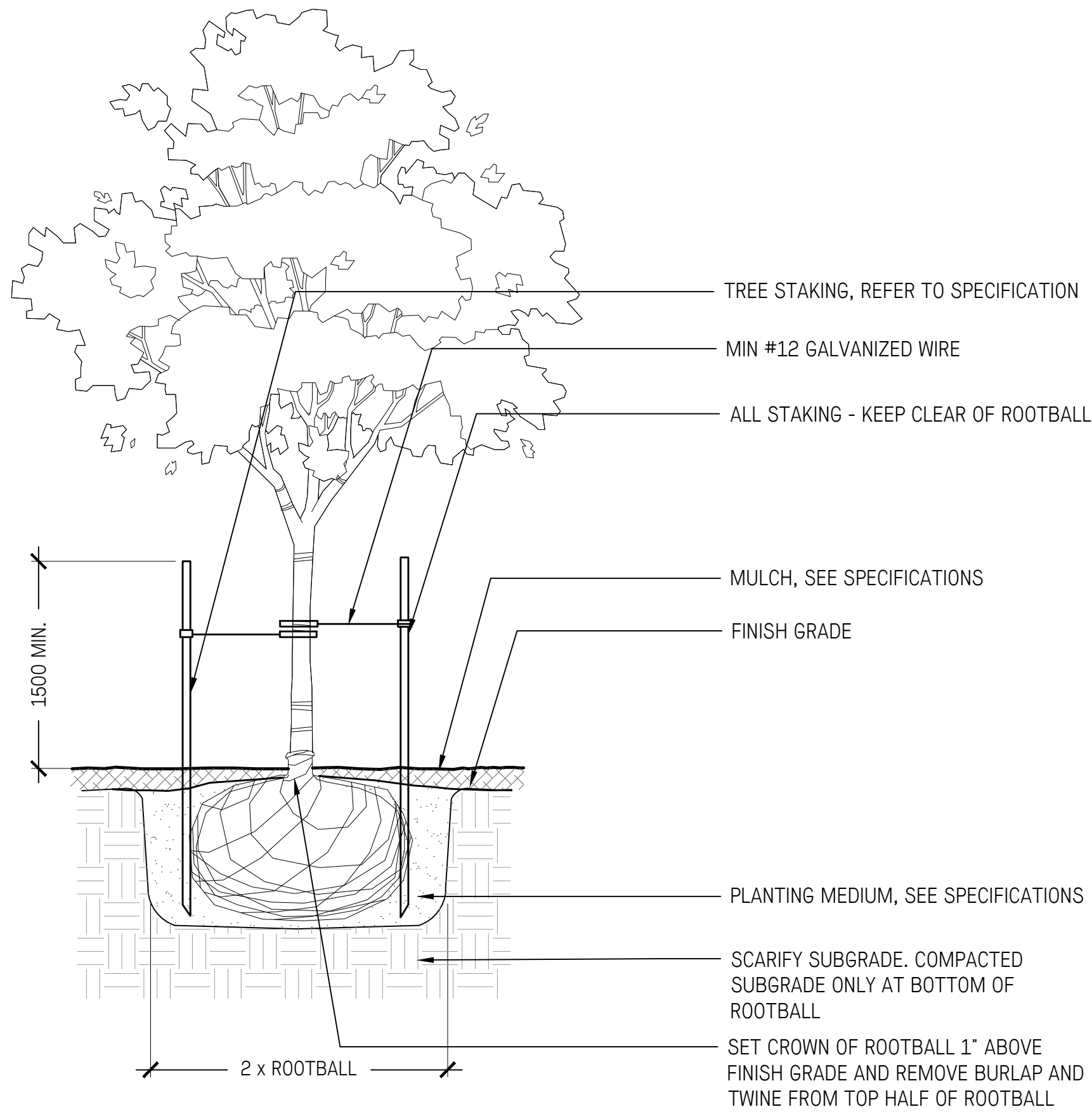
Walls and Stairs
Details

SHEET
L3.30

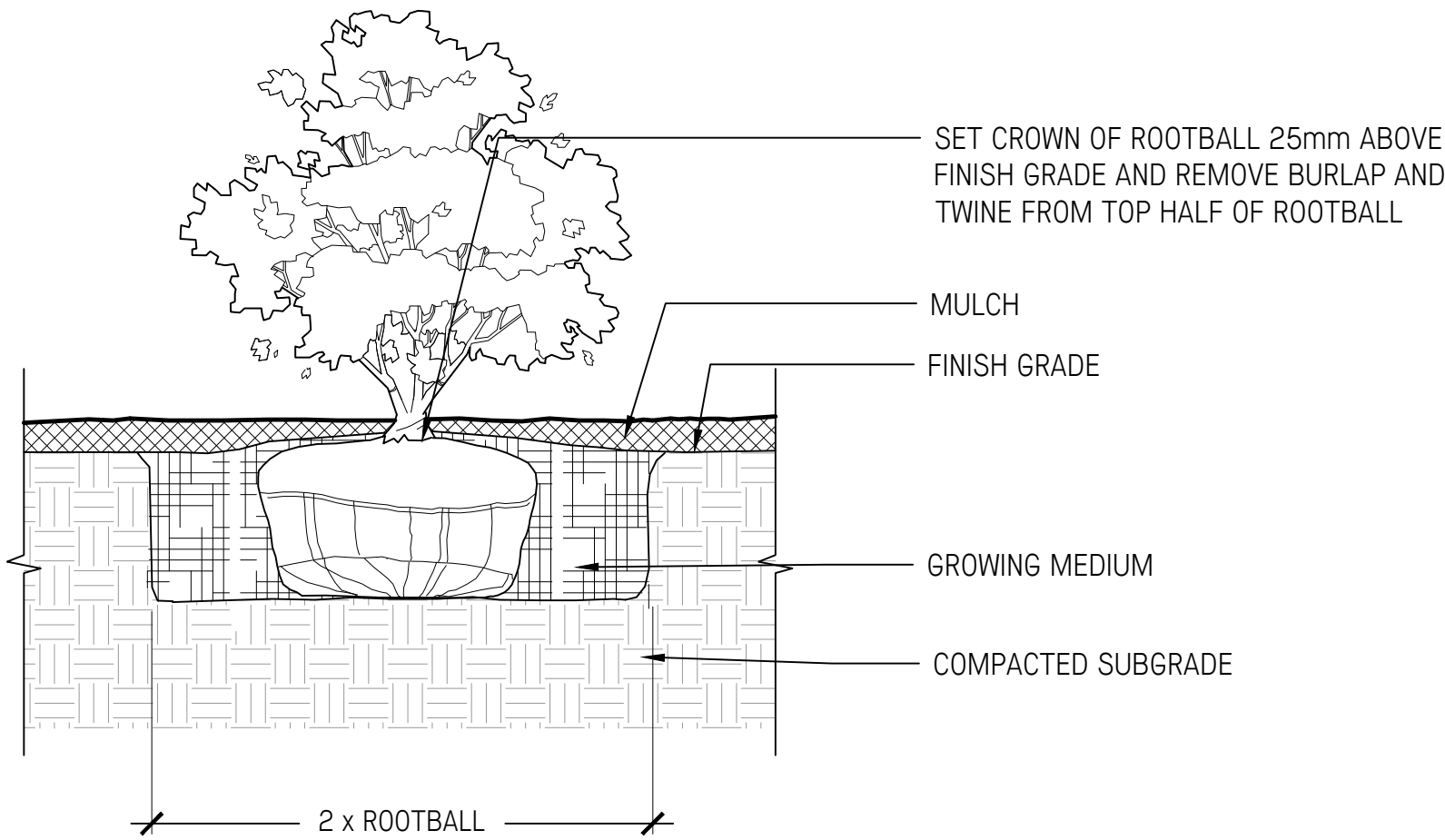
- NOTES:
1. GEOTECH TO CONFIRM STABILITY OF SLOPE;
 2. CONFIRM WALL HEIGHT WITH GRADING PLAN;
 3. F'C MIN 25 MPA @28 DAYS;
 4. DO NOT BACKFILL UNTIL CONCRETE HAS REACHED 28 DAY STRENGTH.



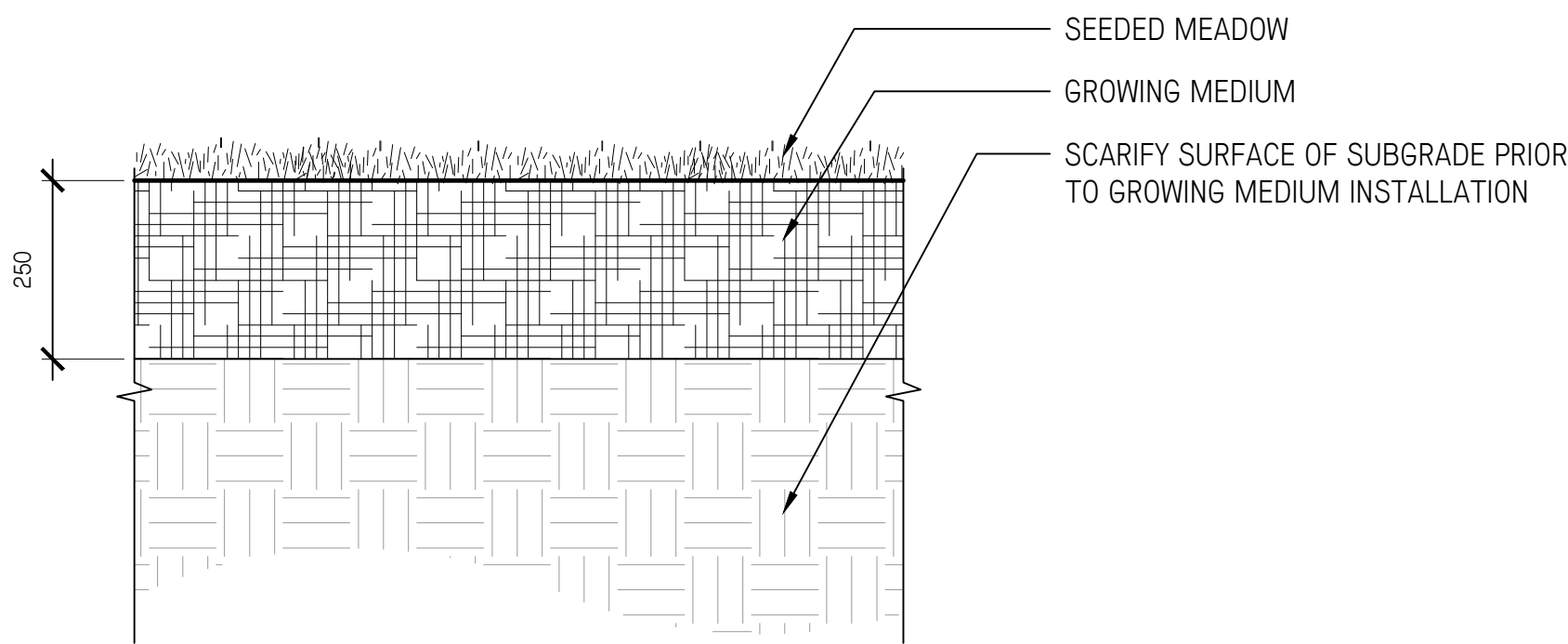
1
-
RETAINING WALL
1:20



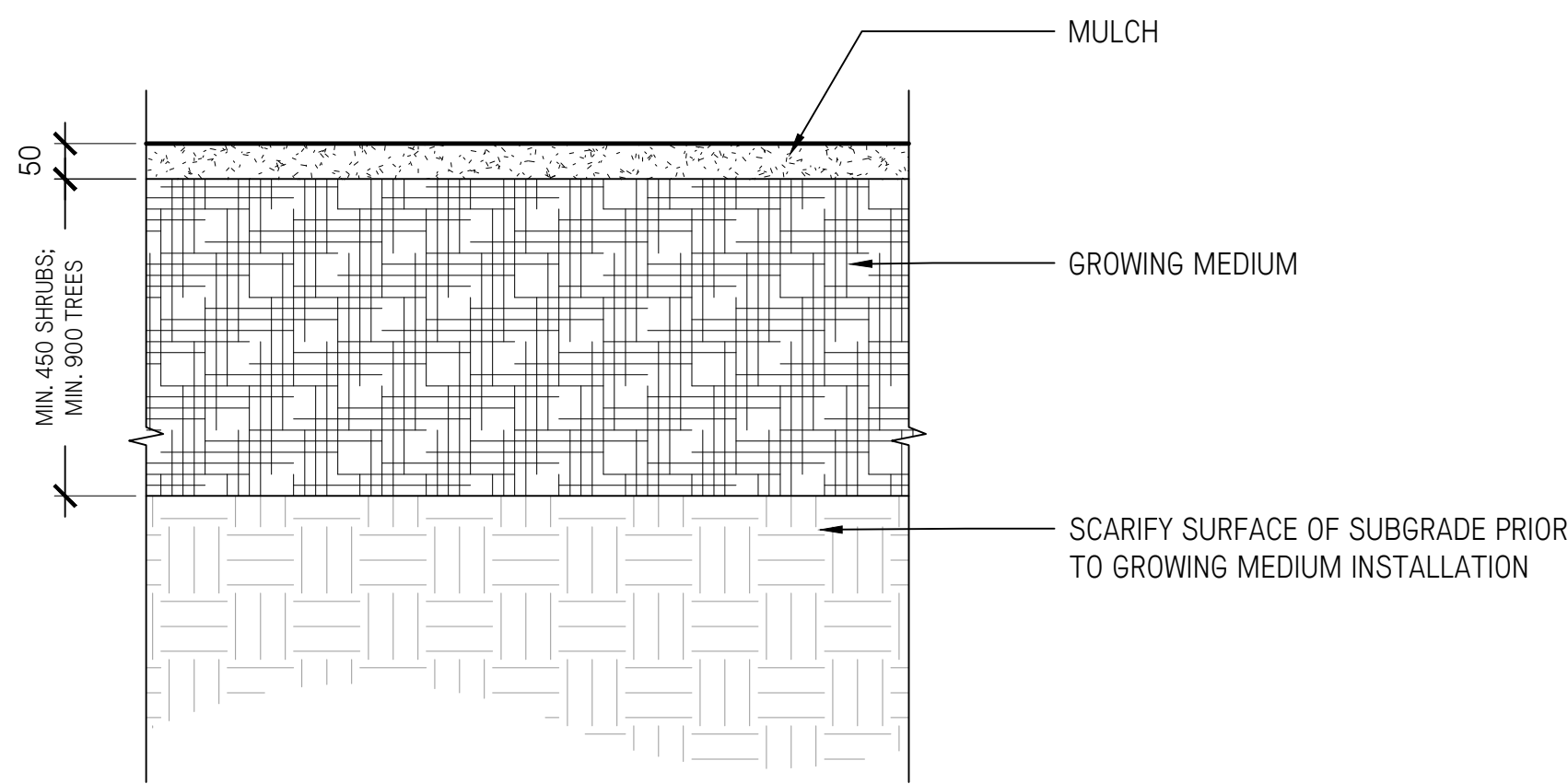
1 TREE PLANTING - ON GRADE
1:10



2 SHRUB PLANTING
1:10

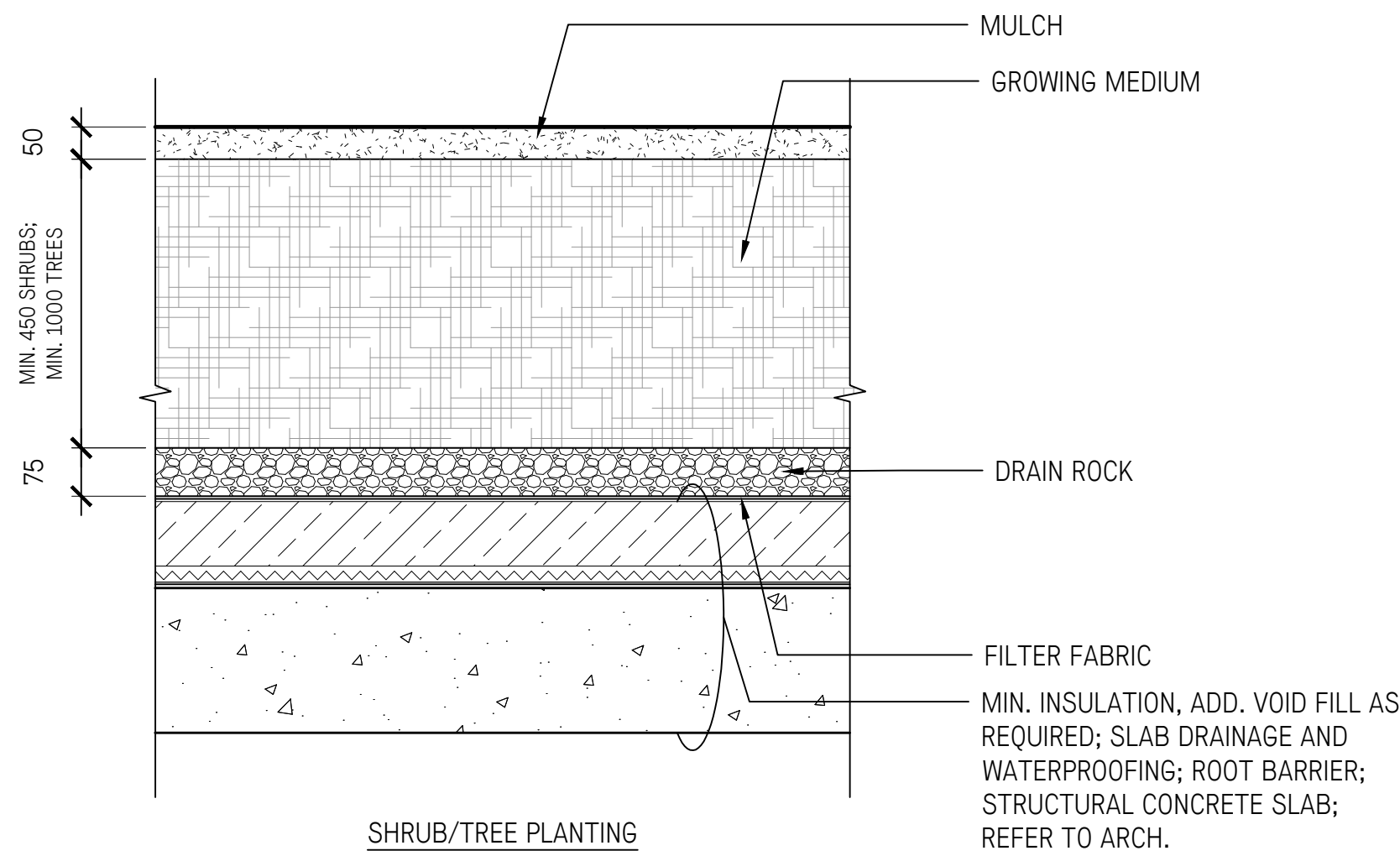


LAWN PLANTING



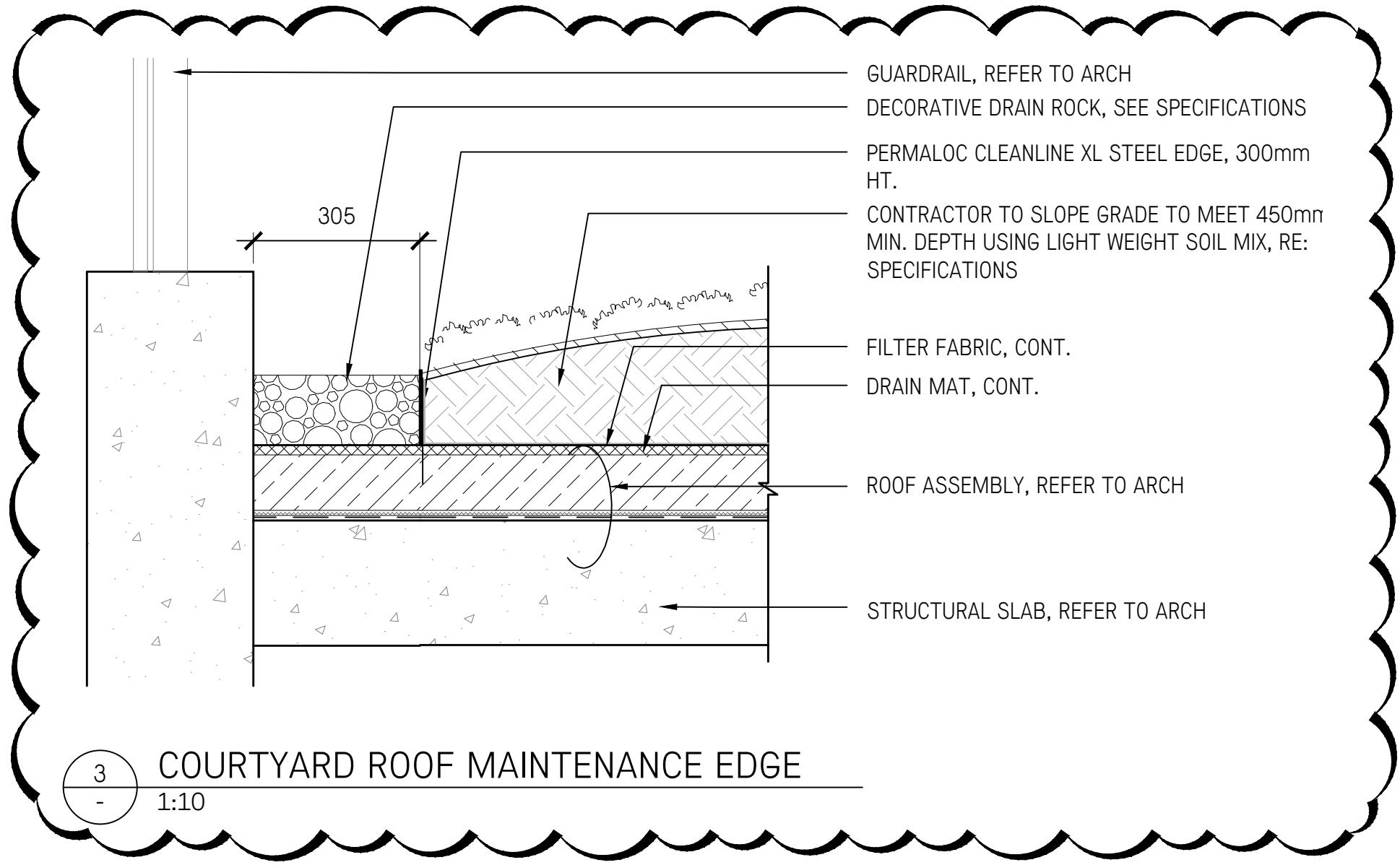
SHRUB/TREE PLANTING

5 SOIL PROFILES ON GRADE
1:10

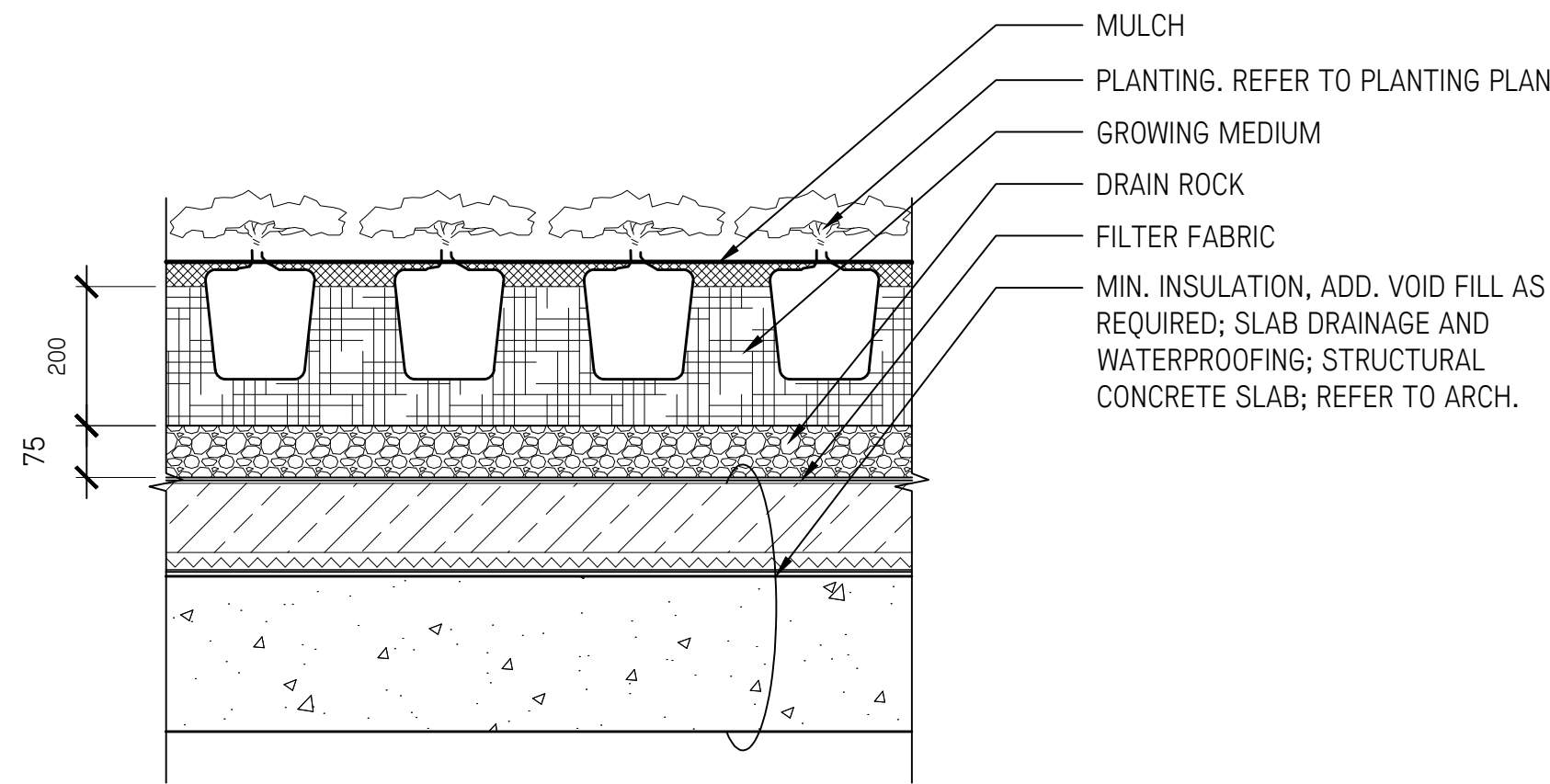


SHRUB/TREE PLANTING

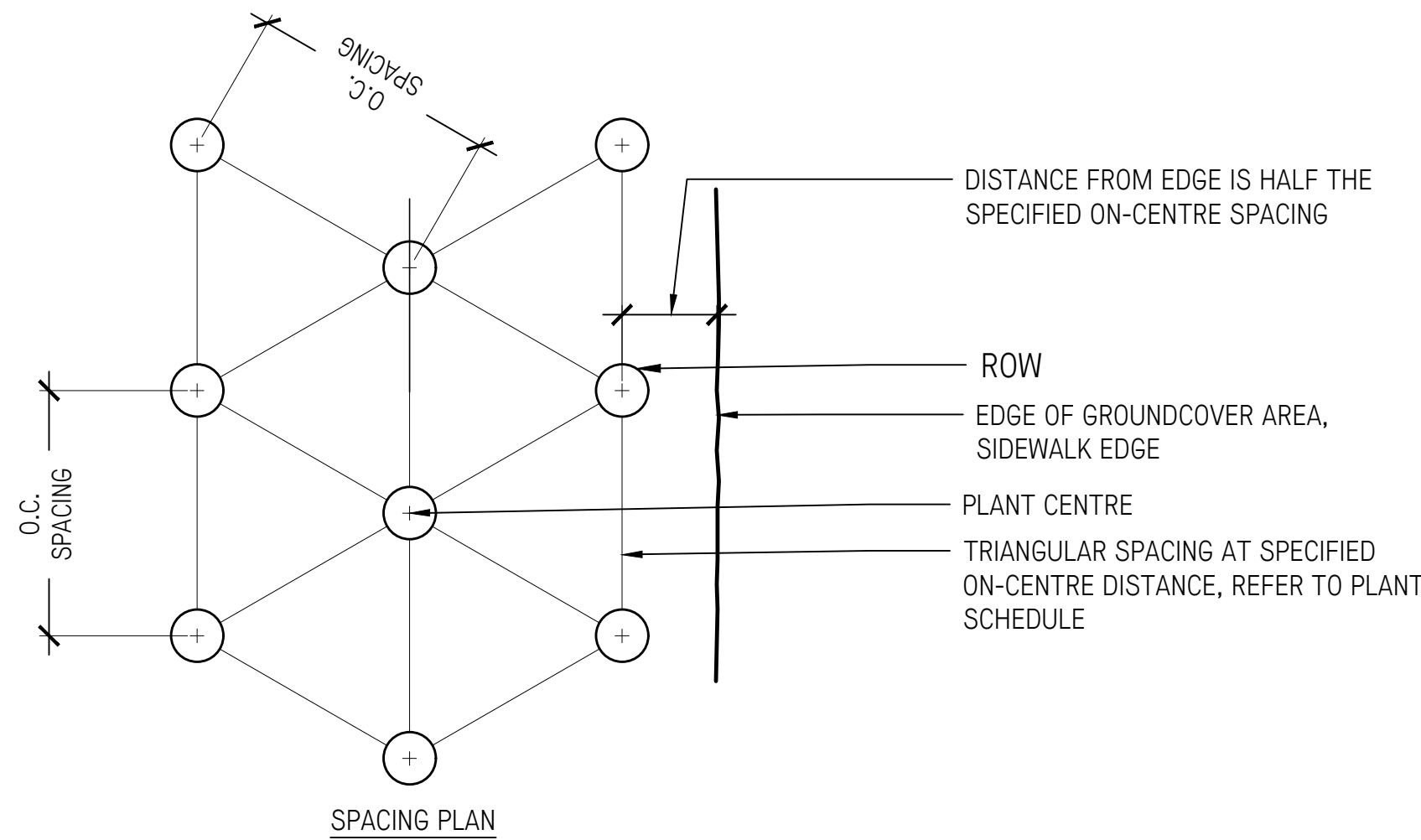
6 SOIL PROFILES ON SLAB
1:10



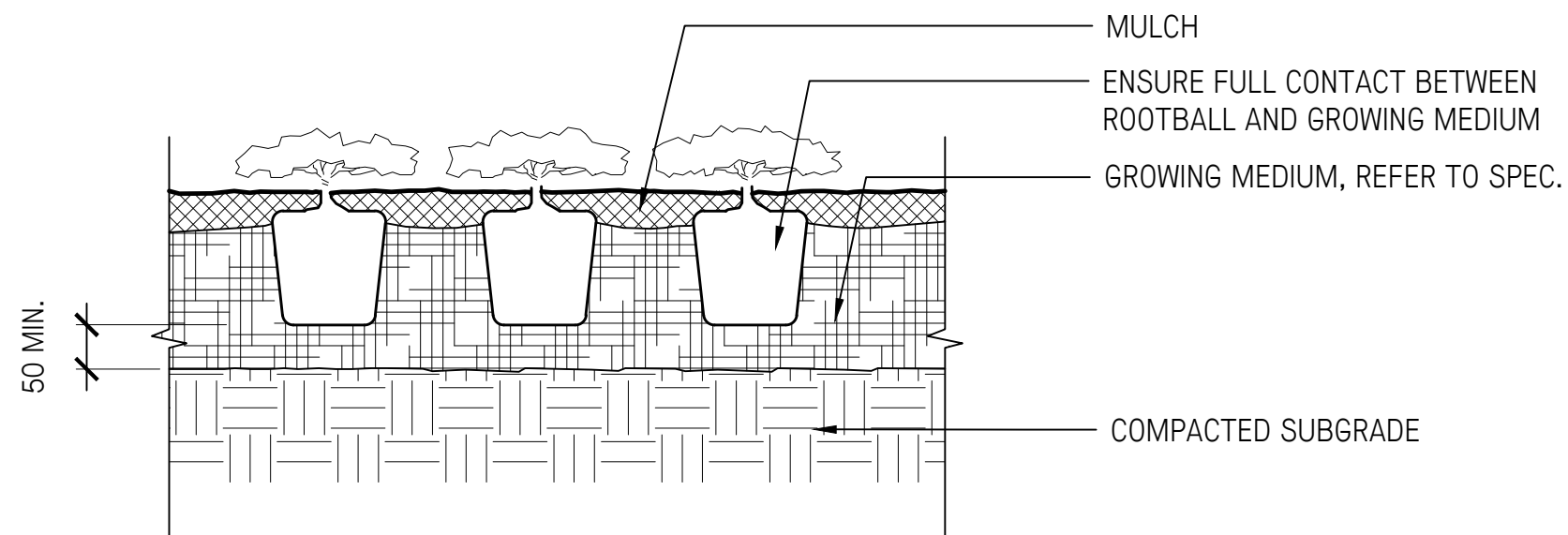
3 COURTYARD ROOF MAINTENANCE EDGE
1:10



4
1:10



SPACING PLAN



7 GROUND COVER PLANTING
1:10

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L3.40