Beaty Biodiversity Centre Addition Landscape Drawings

Issued for Development Permit R3 - September 22, 2022

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Opportunities and Constraints

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.
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 Centre 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 recreational 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.
TREE MANAGEMENT PLAN

1. REFER TO ARBORIST'S INVENTORY/ASSESSMENT REPORT PREPARED BY PROJECT ARBORIST FOR TREE SPECIES AND GENERAL CONDITIONS;

2. ROOT PROTECTION ZONES ARE AS NOTED BY PROJECT ARBORIST;

3. TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH ENGINEERING TO ENSURE SAFE ROOT ZONES OF RETAINED TREES.

4. LIMIT OF WORK IS AN ESTIMATE ONLY, FINAL LIMIT OF WORK TO BE CONFIRMED BY THE UNIVERSITY OF BRITISH COLUMBIA.

5. REFER TO TREE PROTECTION SPECIFICATION FOR DEMOLITION WITHIN THE TPZ.
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;
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 SHALL CLEAN AND REINSTATE ALL AREAS DAMAGED OR AFFECTED BY WORKS OUTSIDE THE LIMIT OF WORK 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 ASPHALT PAVEMENT TO REMAIN

EXISTING BIKE RACKS, TYP.

EXISTING MARBLE TABLE

EXISTING INFORMAL PATHWAY TO REMAIN IN PLACE

EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PAVEMENT TO REMAIN

EXISTING CONCRETE PAVEMENT

EXISTING TOILET STALL

EXISTING ASPHALT PATHWAY

EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PATHWAY

EXISTING ASPHALT PAVEMENT

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EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PAVEMENT

EXISTING ASPHALT PAVEMENT
ROUGH AND READY CURVED BENCH
- REFER TO FURNISHING SCHEDULE
L3.20
5

MOVABLE OUTDOOR FURNITURE, TYP.
- REFER TO FURNISHING SCHEDULE

RECLAIMED WOOD SLICE PAVER, TYP.
PAVING TYPE 4 - CRUSHER FINES ON SLAB WITH STEEL EDGE

GUARDRAIL, TYP.
- REFER TO ARCH

PROPOSED PAVING TO BE FLUSH WITH ADJACENT EXISTING PAVING, TYP.

GUARDRAIL, TYP.
- REFER TO ARCH

CONCRETE PAVERS

ASPHALT PAVING

WOOD SLICE PAVING

CRUSHED STONE PAVING

Not for construction
COURTYARD PAVING / MATERIAL LEGEND

- CONCRETE PAVERS
- NATURAL STONE SLABS

SITE FURNISHING LEGEND

SYMBOL   -   QTY   -   DESCRIPTION
01   2 (T)   PARC CENTRE 30" ROUND TABLE
AND PARC CENTRE CHAIRS WITH ARMS, AS SUPPLIED BY LANDSCAPE FORMS - POWDER COAT, COLOUR TBD
02   8 (C)   SOLID PEANO BENCH, AS SUPPLIED BY STREETLIFE - POWDER COAT, COLOUR TBD
03   2   SOLID PEANO TABLE, AS SUPPLIED BY STREETLIFE - POWDER COAT BASE, COLOUR TBD
04   1   LANDSCAPE BOLLARD

MATERIAL 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.
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 ON SITE WITH LANDSCAPE ARCHITECT.
1. All dimensions are nominal, desirable and 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.
1. All elevations are nominal and are based on survey. All elevations provided by Civil.
2. Contractor to verify all spot elevations prior to starting construction.
3. Contractor to refer to Civil for all site-related grading and drainage.
4. All proposed elevations are to be adjusted to final grade.
5. Contact Civil to start pumping with landscape architect to confirm grading.
6. Contour shown is diagrammatic and final fine grading to be confirmed in the field.

**Grading Plan Notes**

1. All elevations are nominal and are based on survey. All elevations provided by Civil.
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3. Contractor to refer to Civil for all site-related grading and drainage.
4. All proposed elevations are to be adjusted to final grade.
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**Proposed Elevation**

- Bottom of Wall
- Top of Wall
- Direction of Slope
- Finish Floor Elevation
- Top of Stairs
- Bottom of Stairs
- Top of Bench
- TW
- BW
- FFE
- TB
- TS
- BS
- TC
- BC
- (00.00)

**Grading Legend**

- Perforated Drain Pipe
- Drain Pipe
- Trench Drain

**Not for construction**

- Landscape Architecture
- Urban Design

**ISSUES + REVISIONS**

1. 1495 Frances Street
   - Vancouver BC V5L 1Z1
   - Tel 604 738 4323
   - www.publicdesign.ca

2. Beaty Biodiversity Centre Addition
   - 2212 Main Mall, Vancouver BC

3. PROJECT CODE
   - 2122

4. SHEET
   - 1:150

5. Project North: True North

6. Sheet

7. Scale

8. Project North: True North

9. L1.31

10. 1:150 m.

11. Grading Plan

12. Site Plan

13. 0

14. 1m

15. 5m

16. 10m

17. 22/12/2009 2:22:22 PM

18. File Path

19. Copyright reserved. This design and drawing is the exclusive property of WMW Public Architecture and Communication Inc. and cannot be used for any purpose without the written consent of the Architect.

20. This drawing is not to be used for construction until issued for that purpose by the Architect. Prior to commencement of the Work the Contractor shall verify all dimensions, datums and levels to identify any errors and omissions; ascertain any discrepancies between this drawing and the full Contract Documents; and, bring these items to the attention of the Architect for clarification.

21. Not for construction

22. Landscape Architecture

23. Urban Design

24. 403 - 375 West Fifth Avenue
   - Vancouver BC, V5Y 1J6

25. 604 909 4150

26. hapacobo.com

27. A. March 29, 2022

28. B. June 10, 2022

29. C. June 17, 2022

30. D. Sept 07, 2022

31. E. Sept 15, 2022

32. F. Sept 22, 2022

33. L1.31
### Plant Schedule

<table>
<thead>
<tr>
<th>Plant Code</th>
<th>Botanical / Common Name</th>
<th>Size</th>
<th>Spacing</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>Acer circinatum / Vine Maple</td>
<td>2.4m Ht</td>
<td>As Shown</td>
<td>B&amp;B, Multi-Stemmed, Dense Tree</td>
</tr>
<tr>
<td>RG</td>
<td>Prunus emarginata / Bitter Cherry</td>
<td>2.4m Ht</td>
<td>As Shown</td>
<td>B&amp;B, Well Branched, Dense Tree</td>
</tr>
<tr>
<td>RG2</td>
<td>Pseudotsuga menziesii / Douglas Fir</td>
<td>3.0m Th</td>
<td>As Shown</td>
<td>B&amp;B, Uniform Branching, Dense Tree</td>
</tr>
<tr>
<td>Ba</td>
<td>Berberis aquifolium / Oregon Grape</td>
<td>#3 Pot</td>
<td>90cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Cr2</td>
<td>Cornus sericea / Red Twig Dogwood</td>
<td>#3 Pot</td>
<td>90cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Li2</td>
<td>Lonicera cissoides / Orange Honeysuckle</td>
<td>#3 Pot</td>
<td>90cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Pu</td>
<td>Philadelphus lewisii / Wild Mockorange</td>
<td>#3 Pot</td>
<td>90cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Ba</td>
<td>Ribes sanguineum / Red Flowering Current</td>
<td>#3 Pot</td>
<td>100cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Ba</td>
<td>Rosa rubrifolia / Notha Rose</td>
<td>#3 Pot</td>
<td>90cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Rw2</td>
<td>Rubus spectabilis / Salmonberry</td>
<td>#3 Pot</td>
<td>100cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Sa</td>
<td>Symphoricarpos albus / Common White Snowberry</td>
<td>#3 Pot</td>
<td>75cm</td>
<td>Well Established</td>
</tr>
<tr>
<td>Vi</td>
<td>Vaccinium corymbosum / Dwarf Blueberry</td>
<td>#3 Pot</td>
<td>45cm</td>
<td>Well Established</td>
</tr>
</tbody>
</table>

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<tr>
<th>Plant Code</th>
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<th>Spacing</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>An2</td>
<td>Allium cernuum / Nodding Onion</td>
<td>Plug</td>
<td>25cm</td>
<td></td>
</tr>
<tr>
<td>Au</td>
<td>Agastache urticifolia / Nettleleaf Giant Hyssop</td>
<td>Plug</td>
<td>60cm</td>
<td></td>
</tr>
<tr>
<td>Au2</td>
<td>Aniscophyllum caesius / Fireweed</td>
<td>Plug</td>
<td>35 cm</td>
<td></td>
</tr>
<tr>
<td>Ba</td>
<td>Aster x amellus / Aster</td>
<td>Plug</td>
<td>35 cm</td>
<td></td>
</tr>
<tr>
<td>Cr</td>
<td>Carex quinqueflora / Small Canna</td>
<td>Plug</td>
<td>35 cm</td>
<td></td>
</tr>
<tr>
<td>Da</td>
<td>Digitalis purpurea / Fox / White Foxglove</td>
<td>Plug</td>
<td>35 cm</td>
<td></td>
</tr>
<tr>
<td>Ea</td>
<td>Epilobium angustifolium / Fireweed</td>
<td>Plug</td>
<td>35 cm</td>
<td></td>
</tr>
<tr>
<td>Ec</td>
<td>Filipendula chamaedryoides / Beach Strawberry</td>
<td>Plug</td>
<td>30cm</td>
<td></td>
</tr>
<tr>
<td>Li</td>
<td>Lilium columbianum / Tiger Lily</td>
<td>Plug</td>
<td>30cm</td>
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<tr>
<td>Lp</td>
<td>Lupinus polyphyllus / Large-leaved Lupine</td>
<td>Plug</td>
<td>35 cm</td>
<td></td>
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<tr>
<td>Rd</td>
<td>Penstemon davidsonii / Davidson’s Penstemon</td>
<td>Plug</td>
<td>30cm</td>
<td></td>
</tr>
<tr>
<td>Ti</td>
<td>Tantilla trifoliata / Threaded Foamflower</td>
<td>Plug</td>
<td>35 cm</td>
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</tbody>
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### Concept Plant Schedule

<table>
<thead>
<tr>
<th>Category</th>
<th>Size</th>
<th>Spacing</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Grasses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#2 Pot</td>
<td>6.3 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#1 Pot</td>
<td>4.21%</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.45m oc</td>
<td>#2 Pot</td>
<td>6.58%</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.9m oc</td>
<td>#2 Pot</td>
<td>7.1 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#1 Pot</td>
<td>82.8 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.45m oc</td>
<td>#2 Pot</td>
<td>61.7 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.9m oc</td>
<td>#2 Pot</td>
<td>95 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#1 Pot</td>
<td>1.0 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.45m oc</td>
<td>#2 Pot</td>
<td>92 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.9m oc</td>
<td>#2 Pot</td>
<td>18.1 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#1 Pot</td>
<td>1.69%</td>
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<tr>
<td>Festuca rubra / Red Fescue</td>
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<td>#2 Pot</td>
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<td>6.32%</td>
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<td>6.58%</td>
<td>#2 Pot</td>
<td>2.5%</td>
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<td>#2 Pot</td>
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<td>19.23%</td>
<td>#2 Pot</td>
<td>12.1 m²</td>
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<tr>
<td>Festuca rubra / Red Fescue</td>
<td>17.7%</td>
<td>#2 Pot</td>
<td>28.3 m²</td>
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<tr>
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<td>4.21%</td>
<td>#2 Pot</td>
<td>1.0 m²</td>
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<tr>
<td>Festuca rubra / Red Fescue</td>
<td>14.33%</td>
<td>#2 Pot</td>
<td>76.2 m²</td>
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<tr>
<td>Festuca rubra / Red Fescue</td>
<td>95%</td>
<td>#2 Pot</td>
<td>1.6 m²</td>
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<tr>
<td>Festuca rubra / Red Fescue</td>
<td>95%</td>
<td>#2 Pot</td>
<td>1.6 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>6.58%</td>
<td>#2 Pot</td>
<td>92 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>17.7%</td>
<td>#2 Pot</td>
<td>28.3 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#1 Pot</td>
<td>6.3 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.45m oc</td>
<td>#2 Pot</td>
<td>61.7 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.9m oc</td>
<td>#2 Pot</td>
<td>95 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.4m oc</td>
<td>#1 Pot</td>
<td>1.0 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.45m oc</td>
<td>#2 Pot</td>
<td>92 m²</td>
</tr>
<tr>
<td>Festuca rubra / Red Fescue</td>
<td>20% @ 0.9m oc</td>
<td>#2 Pot</td>
<td>18.1 m²</td>
</tr>
</tbody>
</table>

### Notes
- This drawing is not to be used for construction until issued for that purpose by the Architect. Prior to commencement of the Work the Project Team must present the Architect with the full Contract Documents; and, bring these items to the attention of the Architect for clarification.
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- Copyright reserved. This design and drawing is the exclusive property of WMW Public Architecture and Communication Inc. and cannot be used for any purpose without the written consent of the Architect.
REFER TO SHEET L1.45 FOR LOWER COURTYARD

SHADE TOLERANT MIX (18.2 m²)
(38) Adiantum aleuticum
(38) Blechnum spicant
(40) Gaultheria shallon
(24) Polystichum munitum
(24) Rubus spectabilis

SHADE MEDIAN MIX (92.2 m²)
(120) Adiantum aleuticum
(120) Blechnum spicant
(120) Gaultheria shallon
(95) Polystichum munitum
(24) Rubus spectabilis

UBC BIODIVERSITY LAWN MIX
(140 m²)

POLINATOR MEADOW SEED MIX, TYP.
- REFER TO PANT SCHEDULE

ISSUES + REVISIONS

A. MARCH 29, 2022
B. JUNE 10, 2022
C. JUNE 17, 2022
D. SEPT 07, 2022
E. SEPT 15, 2022
F. SEPT 22, 2022

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

**PLANT SCHEDULE**

L1.44 Planting Schedule

Basement Level
1. ALL PLANT MATERIAL TO BCSCA AND BCSLA STANDARDS. REFER TO THE BCSLA LANDSCAPE STANDARDS AND 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 MATERIAL;
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 LANDSCAPE ARCHITECT FOR INSPECTION AFTER TREE PLANTING COMPLETION;
8. REFER TO CIVIL AND MEP FOR DRAINS.
NOTES: SECTIONS ARE ILLUSTRATIVE AND TO SHOW DESIGN INTENT ONLY. NOT FOR CONSTRUCTION.

SECTION A-A'

 SECTION B-B'

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

EXISTING BUILDING

EXISTING ASPHALT PATH

POLLINATOR MEADOW

GRASS PATH

POLLINATOR MEADOW

GRASS PATH

POLLINATOR MEADOW

GRASS PATH

NURSE LOGS

Boulders

DECORATIVE PAVERS

SEATING AREA

PLANTED AREA

SECTION A-A'

SECTION B-B'

EXISTING BUILDING

EXISTING ASPHALT PATH

POLLINATOR MEADOW

GRASS PATH

POLLINATOR MEADOW

GRASS PATH

POLLINATOR MEADOW

GRASS PATH

NURSE LOGS

Boulders

DECORATIVE PAVERS

PLANTED AREA

SEATING AREA

PLANTED AREA
NOTE: SECTIONS ARE ILLUSTRATIVE AND TO SHOW DESIGN INTENT ONLY, NOT FOR CONSTRUCTION.
UBC STANDARD DECORATIVE STEEL BOLLARD

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"

SUPPLIED BY URBAN RACKS 1-888-717-8881 www.urbanracks.com

250
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 GRADE
4. CONCRETE FINISH TO INCLUDE HONEYCOMB AND PITTING. CONTRACTOR TO PROVIDE A MOCK-UP FOR REVIEW;
5. CONFIRM REINFORCEMENT WITH STRUCTURAL ENGINEER;
6. CRUSHED GRANULAR SETTING BED, REFER TO GEOTECHNICAL REQUIREMENT
7. FILTER FABRIC
8. BASE MATERIALS (19mm MINUS WELL GRADED CRUSHED ROCK) COMPACTED TO MINIMUM VALUE PER SPEC
9. SLAB DRAINAGE AND WATERPROOFING; STRUCTURAL CONCRETE SLAB; REFER TO ARCH.

25mm x 100mm CEDAR TIMBERS WITH SLIGHTLY EASED EDGES
CRUSHER FINES TO BE STABILIZED PER SPEC
CONCRETE BENCH, REFER TO STRUCTURAL FOR REINFORCEMENT

NOTE:
1. SITE MEASUREMENTS REQUIRED TO CONFIRM AND VERIFY ALL DESIGN DRAWINGS;
2. INSTALL BENCH AS PER MANUFACTURER SPEC.
3. PROVIDE SHOP DRAWINGS FOR BENCH CONSTRUCTION AND ALL METAL COMPONENTS;
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;
7. SLAB DRAINAGE AND WATERPROOFING; STRUCTURAL CONCRETE SLAB; REFER TO ARCH.
8. BASE MATERIALS (19mm MINUS WELL GRADED CRUSHED ROCK) COMPACTED TO MINIMUM VALUE PER SPEC
9. SLAB DRAINAGE AND WATERPROOFING; STRUCTURAL CONCRETE SLAB; REFER TO ARCH.
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. 

Refer to grading plan 1250 max.

2 - 15m cont. top finish grade; Refer to materials plan for adjacent condition

C 15m @ 400mm 10m @ 250mm 38mm Ø weep holes @ 1220mm 150mm (4") PVC pipe foundation, re: civil

38mm x 89mm key c 15m @ 400mm granular base course; Geotech to confirm bearing surface.

Existing subgrade to be compacted to min. 95% mod. proctor; prepared subgrade to be reviewed by geotech.

3 - 15m cont. isolation joint

Refer to plan for pavement