

UBC RESEARCH PARK
UBC SOUTH CAMPUS, VANCOUVER B.C.

DEVELOPMENT PERMIT BOARD SUBMISSION

P+A
Landscape Architecture
Site Planning

Design Rationale

Conformity to Neighbourhood Plan

The design for the park adheres to the guidelines established in 2005 by UBC in the South Campus Northeast Sub-Area Neighbourhood Plan and the design guidelines articulated in the 2016 Wesbrook Place Design Vision Supplement. The design intent for the park is to "encourage a flexible, adaptable, functional design that prioritizes community use and growth and maintains the overall Wesbrook Place design excellence." *

Context

The new park is located in the UBC South Campus Neighbourhood of Wesbrook Village, east of Wesbrook Boulevard and south of Grey Avenue. The park is bounded by future development parcels on all sides and connected to the adjoining streets and larger south campus parks by greenway links.

Size

The park and connected greenstreet links are $\pm 10,000\text{m}^2$ in overall area. The main body of the park is 110 meters in length and $\pm 42\text{ m}$ in average width in the east west direction. The greenstreet connections are linear parks with a constant 15m overall width and vary in length from 53m to 83m. The park has an overall 7-meter grade change between Grey Avenue to the north and the new road to the south. The main body of the park has been design graded to achieve a $\pm 2\%$ slope from north to south. The green street segments are graded to a maximum of 5% slope for the two north-south segments.

Design Features

The proposed park design will provide for both active and passive recreational experiences including: large open and relatively flat lawn areas for both passive and active enjoyment, play areas for children, seating and gathering areas for social engagement, a recirculating water course and pond for storm water management, streams and pond bubblers for sound mitigation and visual enjoyment, and a community garden. Walkways are provided through the park linking adjacent development parcels to the park and the neighbourhood pedestrian circulation network.

The children's play area is proposed to be located at the north end of the park and takes advantage of a more open and elevated location within the park. This location provides opportunities for play to extend out onto the large open lawn area and to interact with the adjacent waterway. A covered seating area for parents overlooks the play area providing opportunities for social engagement and all season use.

A Community garden for neighbourhood use is proposed on the west side of the park adjacent the plaza and pond overlook. This location provides easy access from Wesbrook, is centrally located within the park and maintains a sunny aspect through the growing season. The community garden will include raised gardening plots, a storage shed, composting and seating.

A plaza area with covered pavilion is proposed to be centrally located within the park adjacent the community garden and overlooking the pond. It has been situated such that it can be viewed from Wesbrook to the west and Grey Avenue to the North. The plaza is intended to serve as the social heart for the neighbourhood and can be used for yoga, tai chi, or for gathering to celebrate special events. The overhead covered structure is intended to provide an all season area for outdoor enjoyment and programming. The plaza and pond have been integrated to take advantage of the flatter grade conditions in this area and to provide a visual focus and to mitigate sounds generated by programming in the plaza.

The pond will function as a storm water detention facility for clean storm water run off delivered to the channel system from adjacent development roof areas. Water will be circulated through the stream network by pumps. Through the summer months the streams will be designed to be visually appealing in the event of reduced water volumes.

The park design will incorporate the materials and site furnishings already established throughout the neighbourhood. A variety of seating areas will be provided to take advantage of the many different views of the park and greenways.

Site Lighting

Appropriate levels of lighting will be provided throughout the park and along the greenstreets utilizing light fixtures already established in the neighbourhood. Pedestrian level post top lights will be utilized along the main walkways, bollard lighting will be provided along secondary walkways. LED strip lighting will be provided at bridges and CIP wall lights at trellis's and seating nodes.

Sustainability

The parks and greenstreets provide accessible pedestrian and cyclist access to all areas of the South Campus Neighbourhood and beyond to other UBC housing areas, the academic campus, Pacific Spirit Park and transit for access to Greater Vancouver. Spaces for social interaction and quiet reflection allow interaction among residents thus contributing to social sustainability. A community gardening area has been integrated into the design adjacent the social hub of the park to encourage residents to garden. Additional strategies include: 300mm top soil depths for lawn areas and 450mm depth for planted areas to encourage storm water detention, a plant palette incorporating the use of native and adaptive plantings and plantings to encourage birds, creative re-use and integration of excavated boulders traditionally trucked from site and a recirculating water feature utilizing storm water harvested from the adjacent development parcels roof tops. A play area will be incorporated with a diversity of play experiences to engage children and their families in an outdoor setting.

Source

*2016 Wesbrook Place Neighbourhood Plan Design Vision Supplement, Page 11, Open Space and Landscape



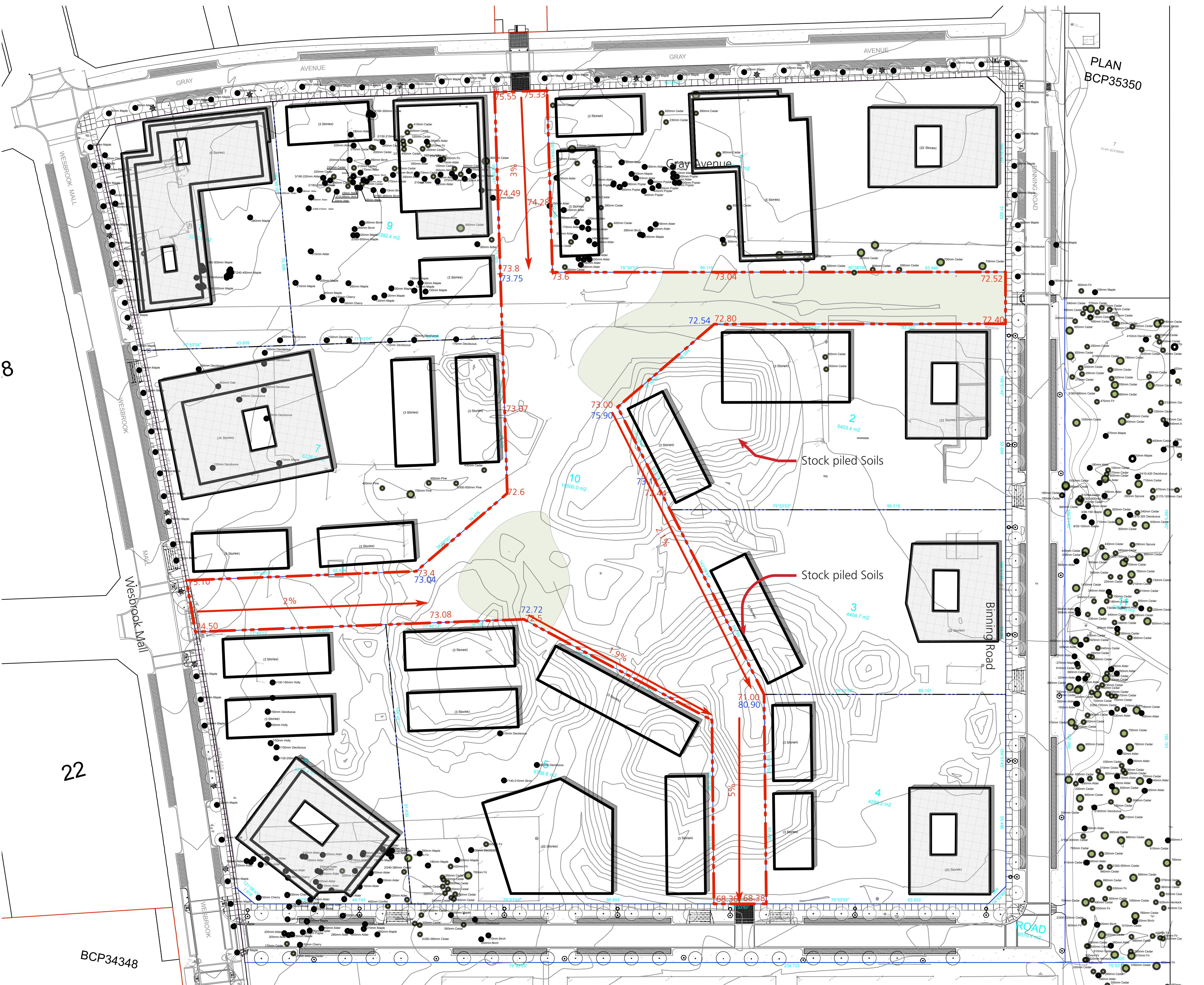


- ③ Maximum Number of Storeys
- Internal Site Height Transitions
- Street Wall Massing
- 5 Storeys or less
- Mixed-Use Commercial Centre
- Schools
- Green Edge
- Usable Neighbourhood Open Space (UNOS)
- Greenway
-
- Maximum 3.5 FSR
High Rise with Low Rise/Townhouses
- Maximum 2.8 FSR
High Rise with Townhouses
- Maximum 2.8 FSR
- Maximum 2.0 FSR
- Maximum 1.2 FSR

Neighbourhood Circulation







Legend

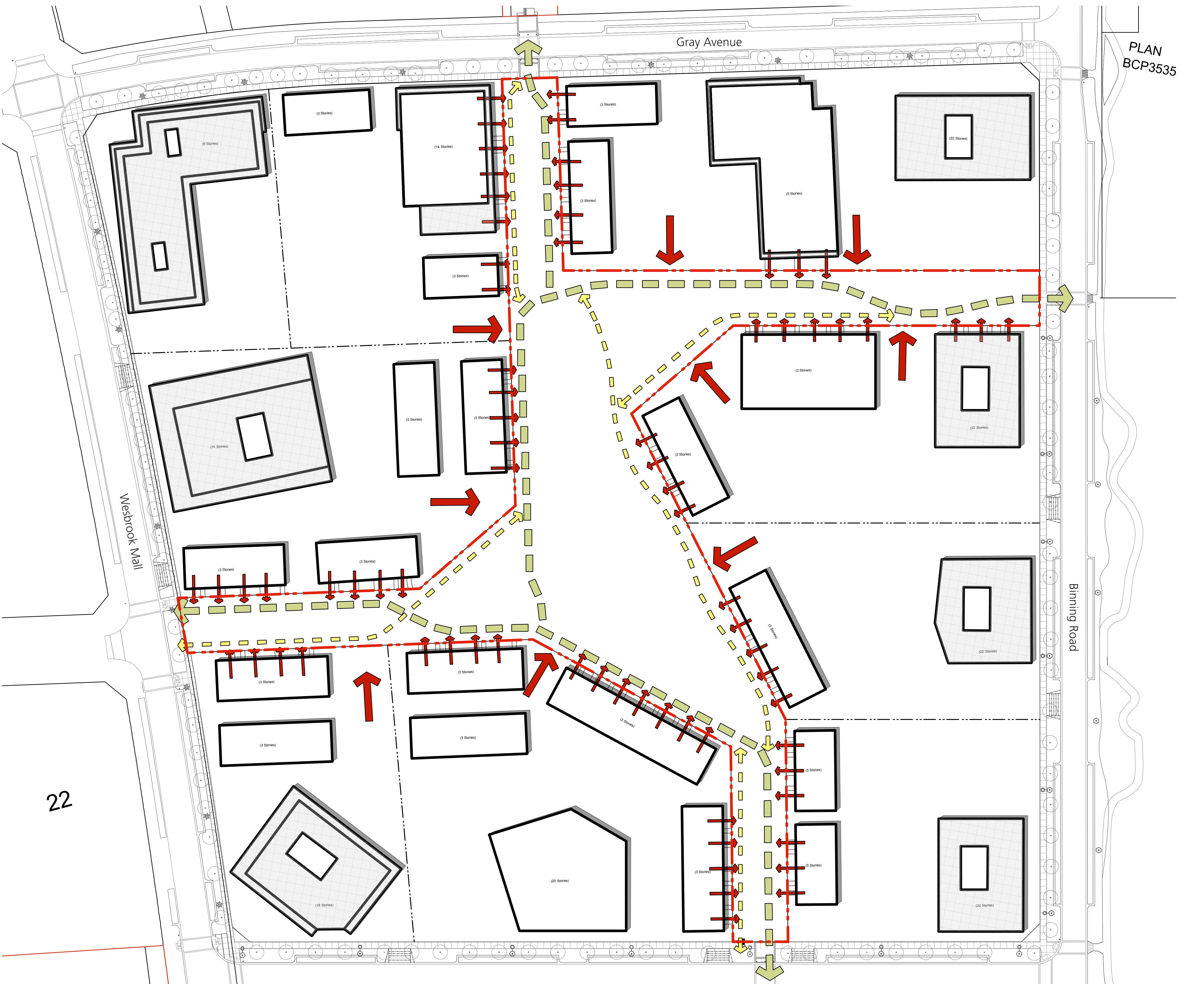
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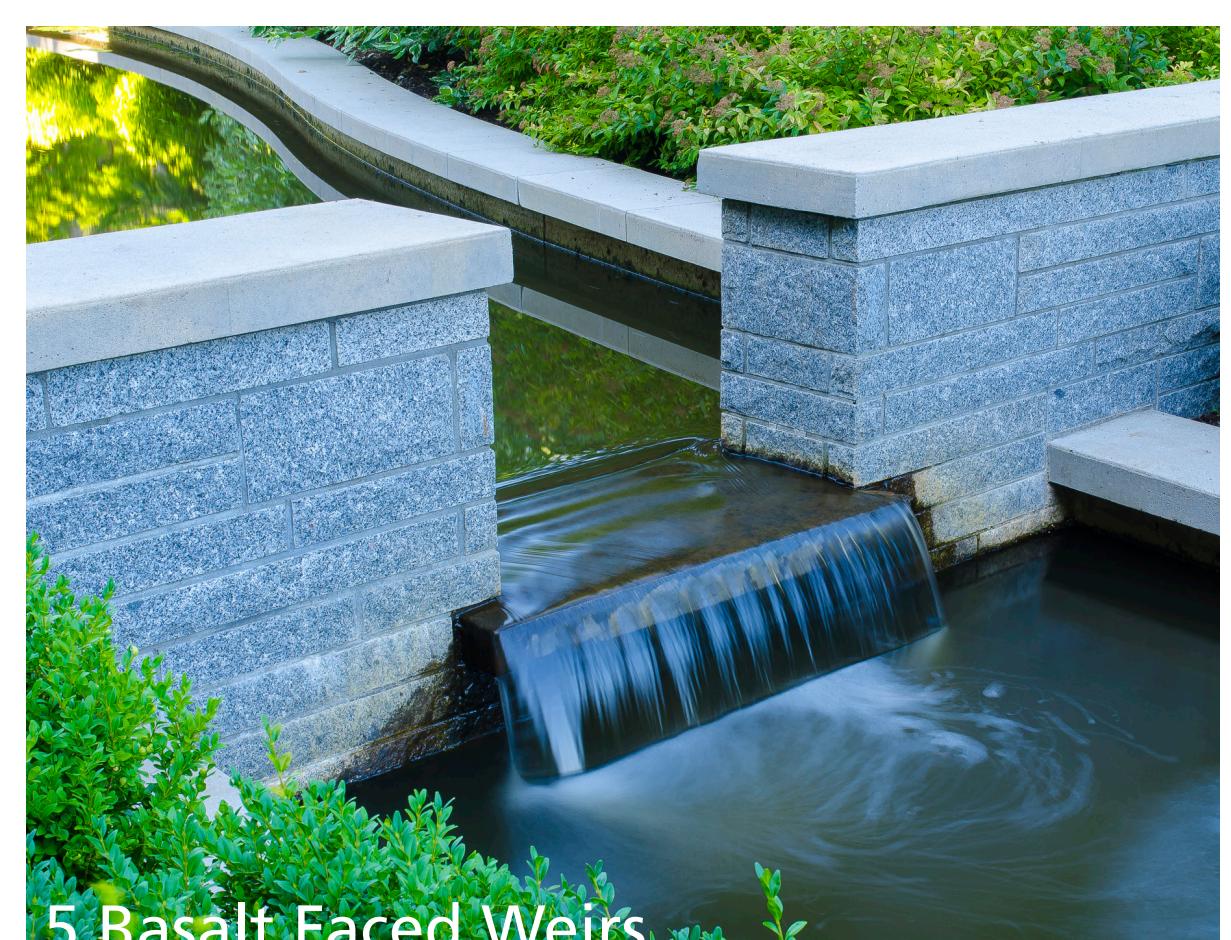
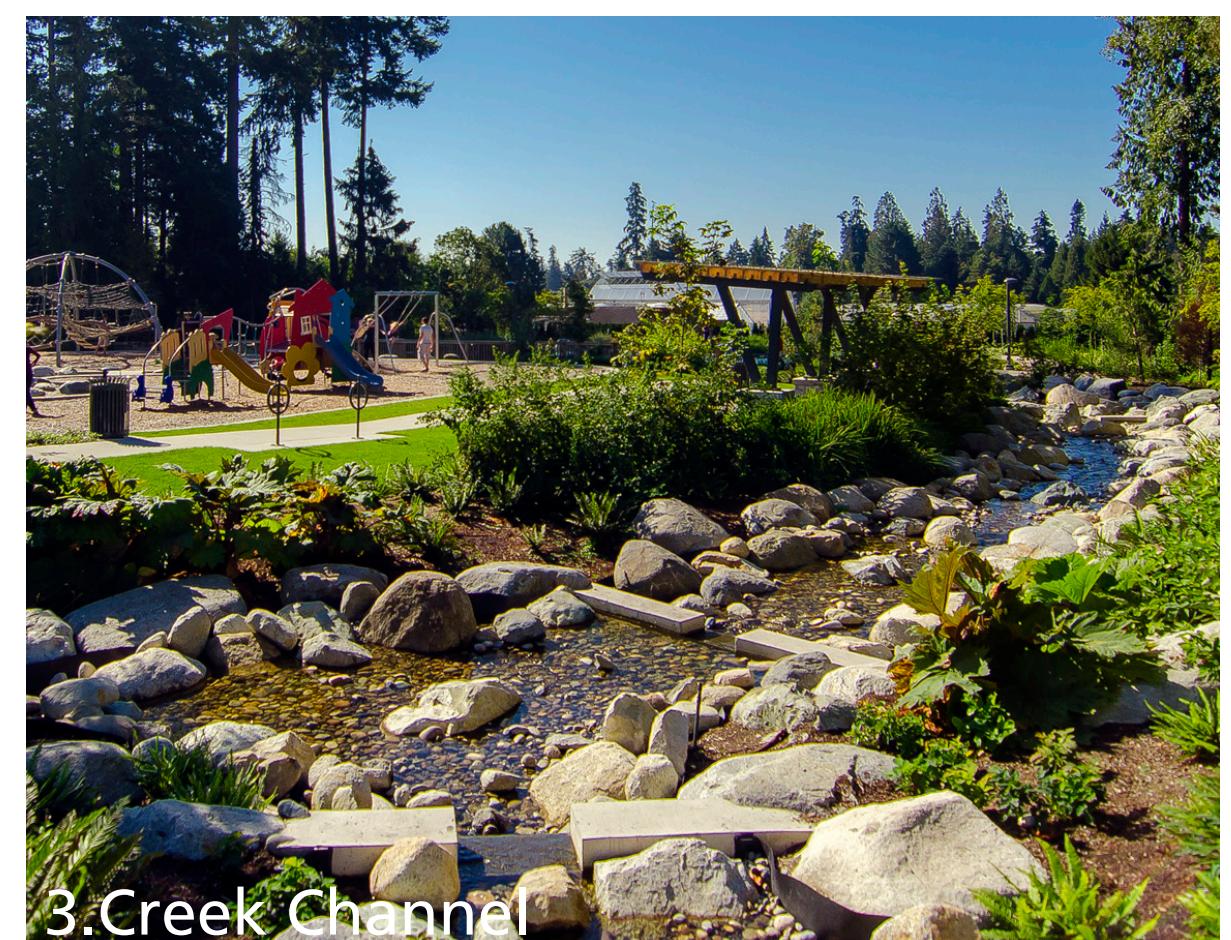
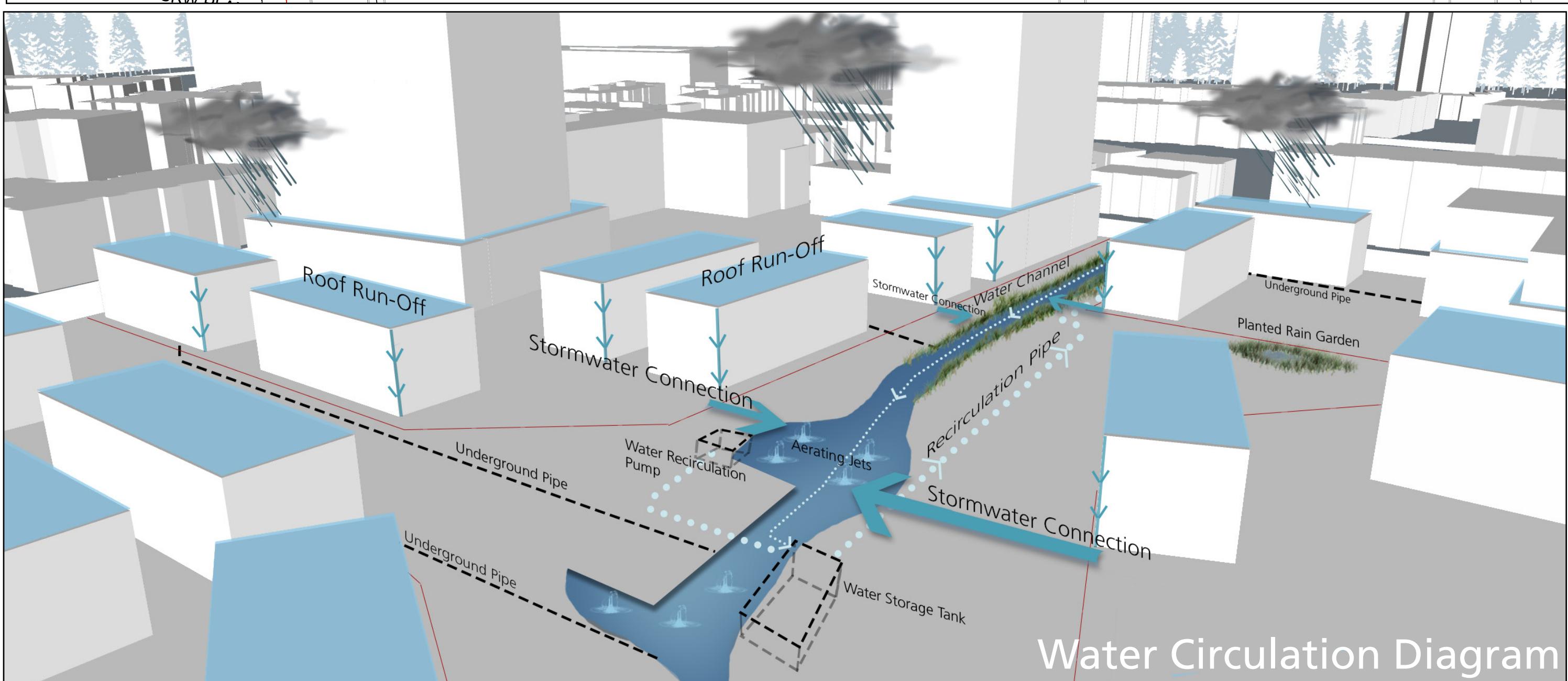
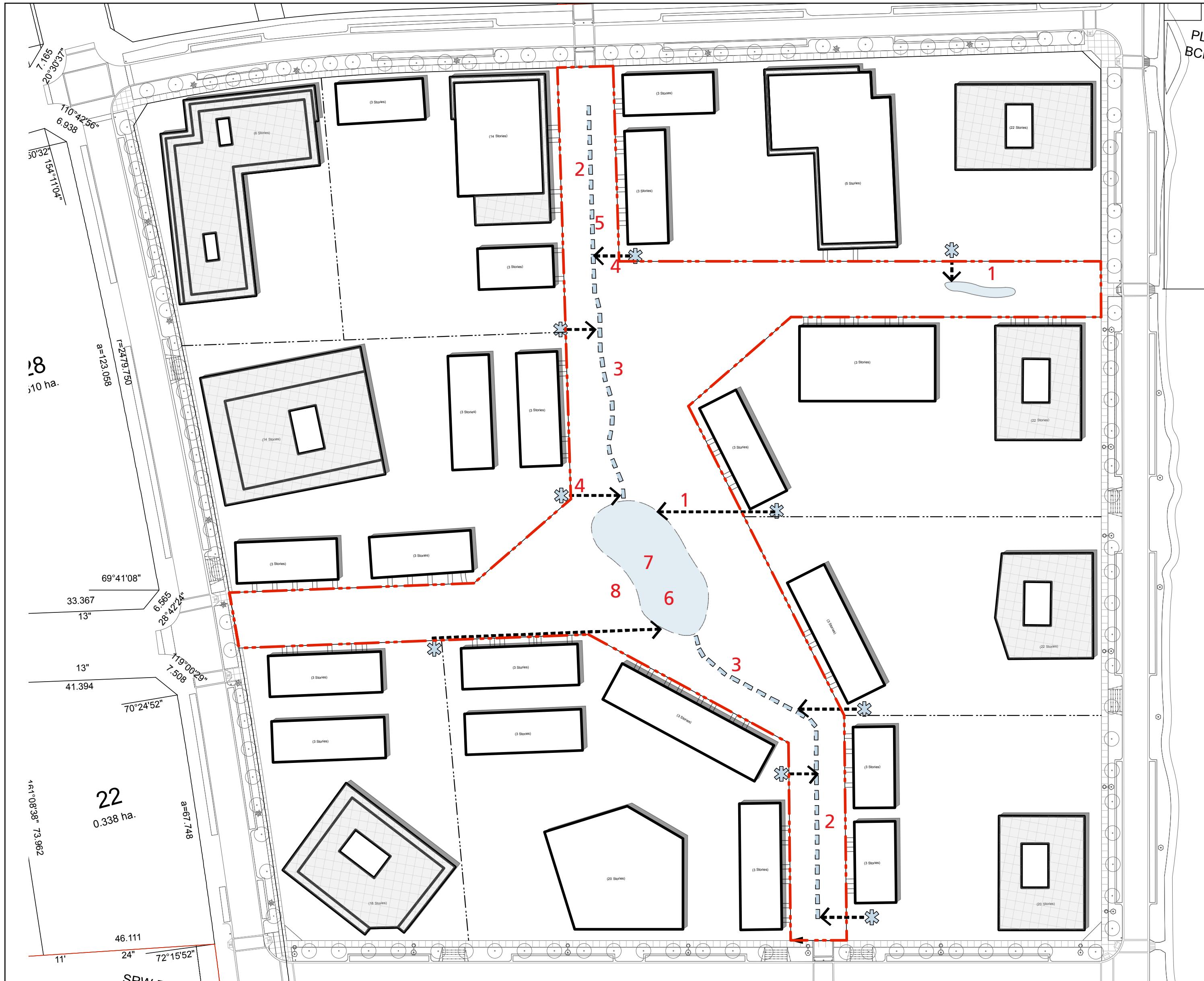
+73.02

EXISTING GRADE

PROPOSED GRADE

SLOPE LESS THAN 1%





Role of Water

Research Park





P+A
landscape Architecture
Site Planning

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IBC Properties Trust

• 100 •

UBC SC Research Park

— Title

Preliminary Concept Plan

Project North: Drawn By

Drawn By: JG

Checked By:

MP

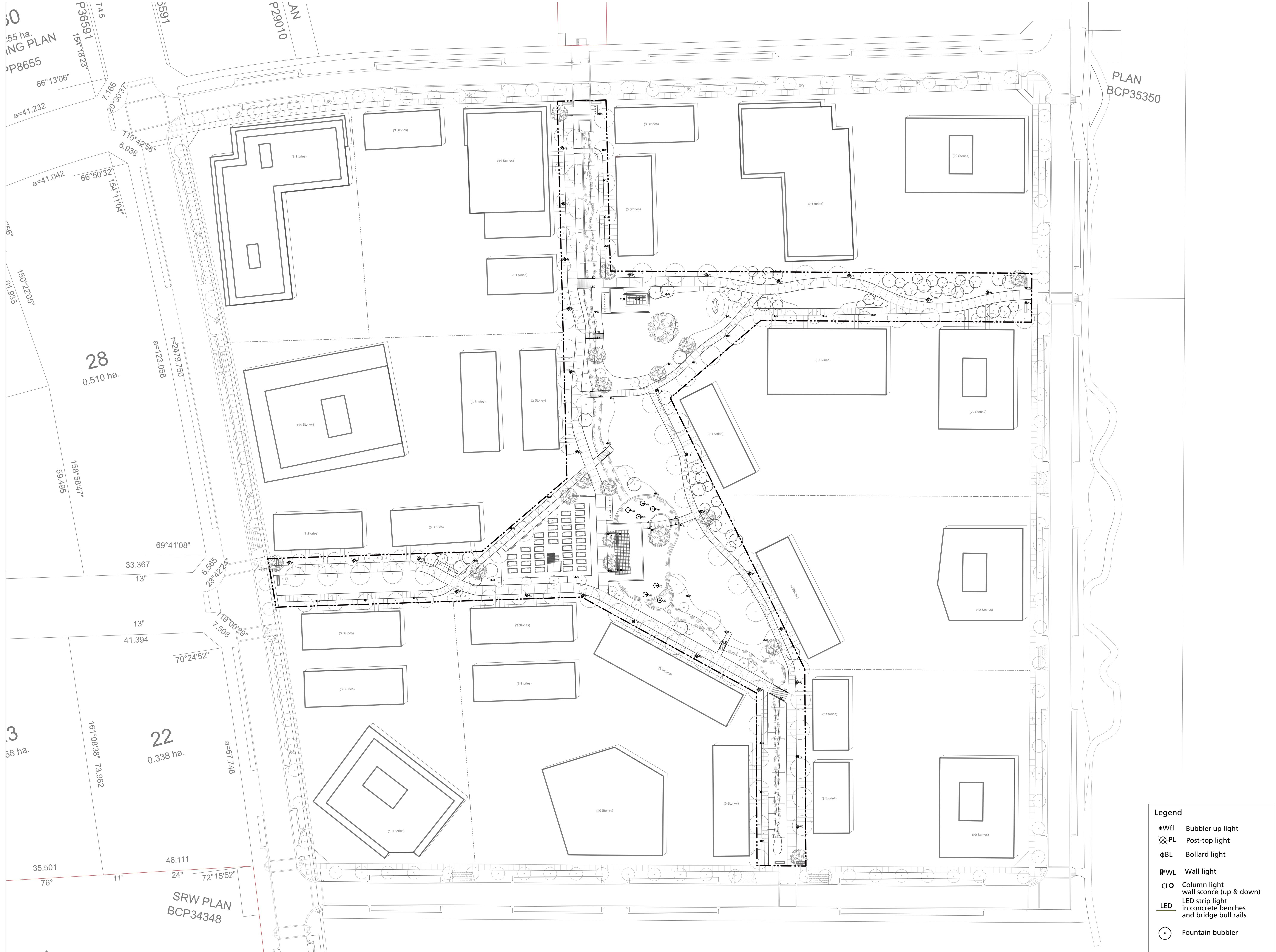
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1.500

110

21.0

L1.0



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Client:

UBC Properties Trust

Project Title:

UBC SC Research Park

Drawing Title:

Lighting Plan

Project North:

Drawn By:

JG

Checked By:

MP

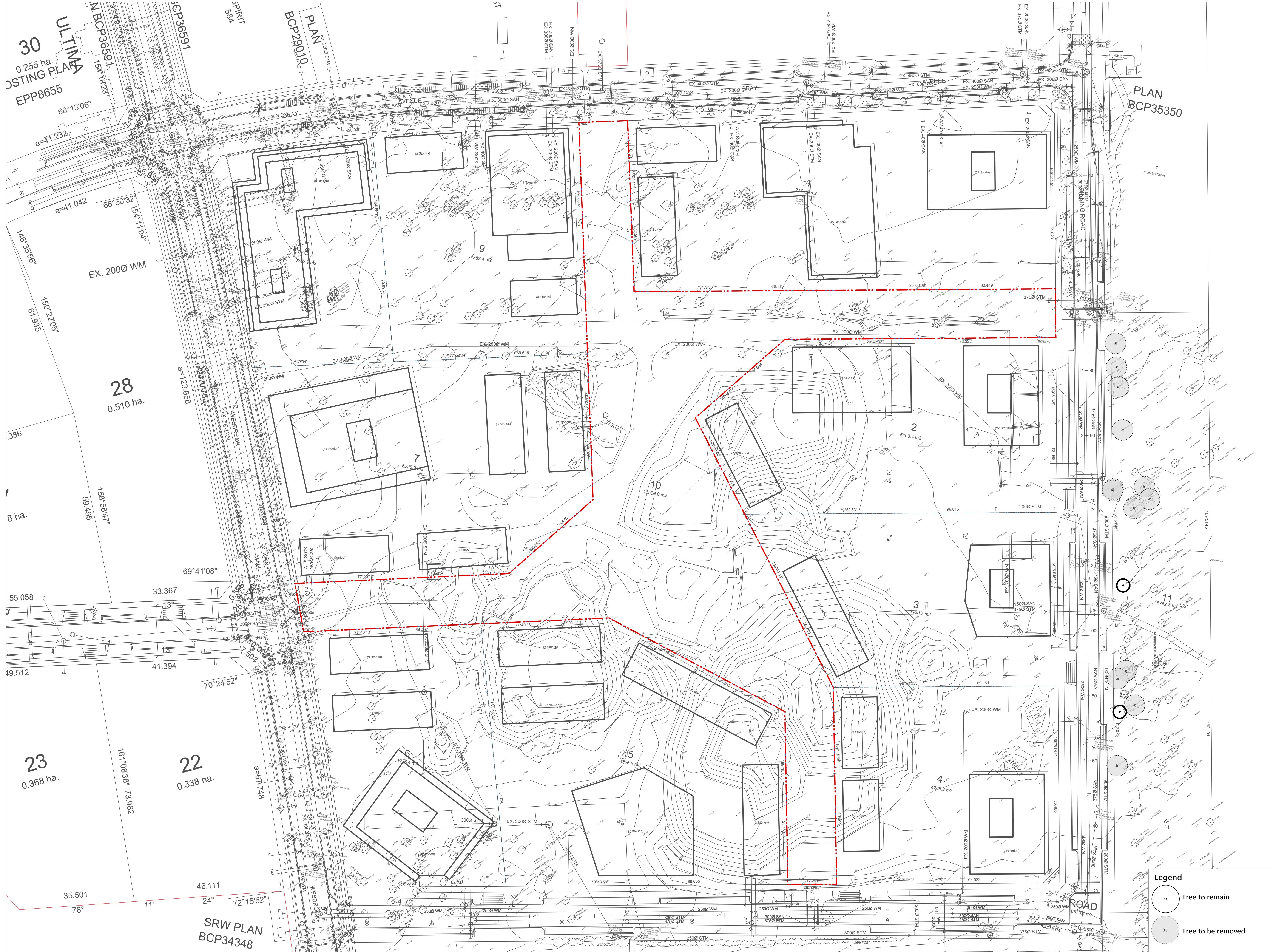
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Client:

UBC Properties Trust

Project Title:

UBC SC Research Park

Drawing Title:

Tree Removal Plan

Project North:

Drawn By:

JG

Checked By:

MP

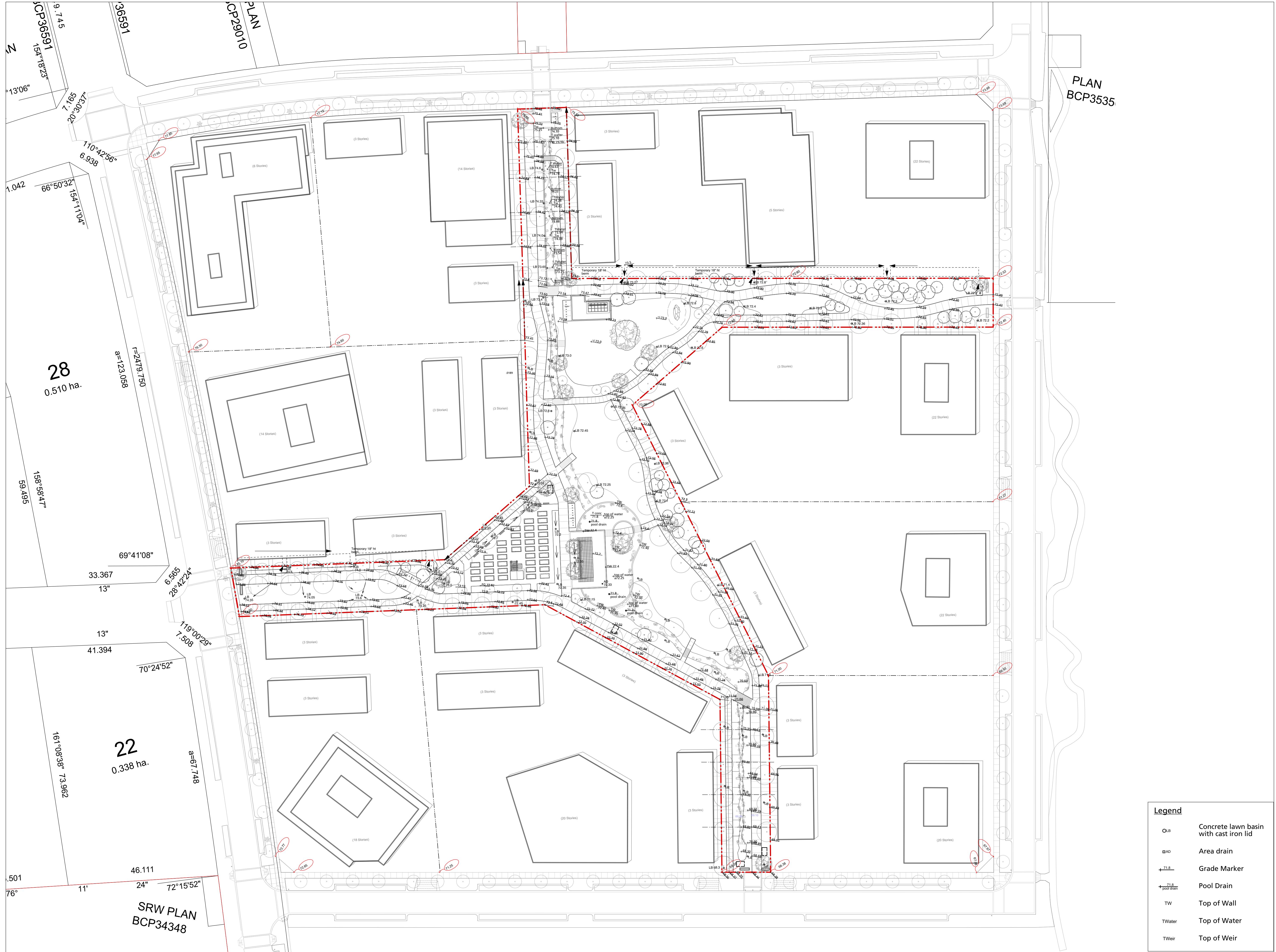
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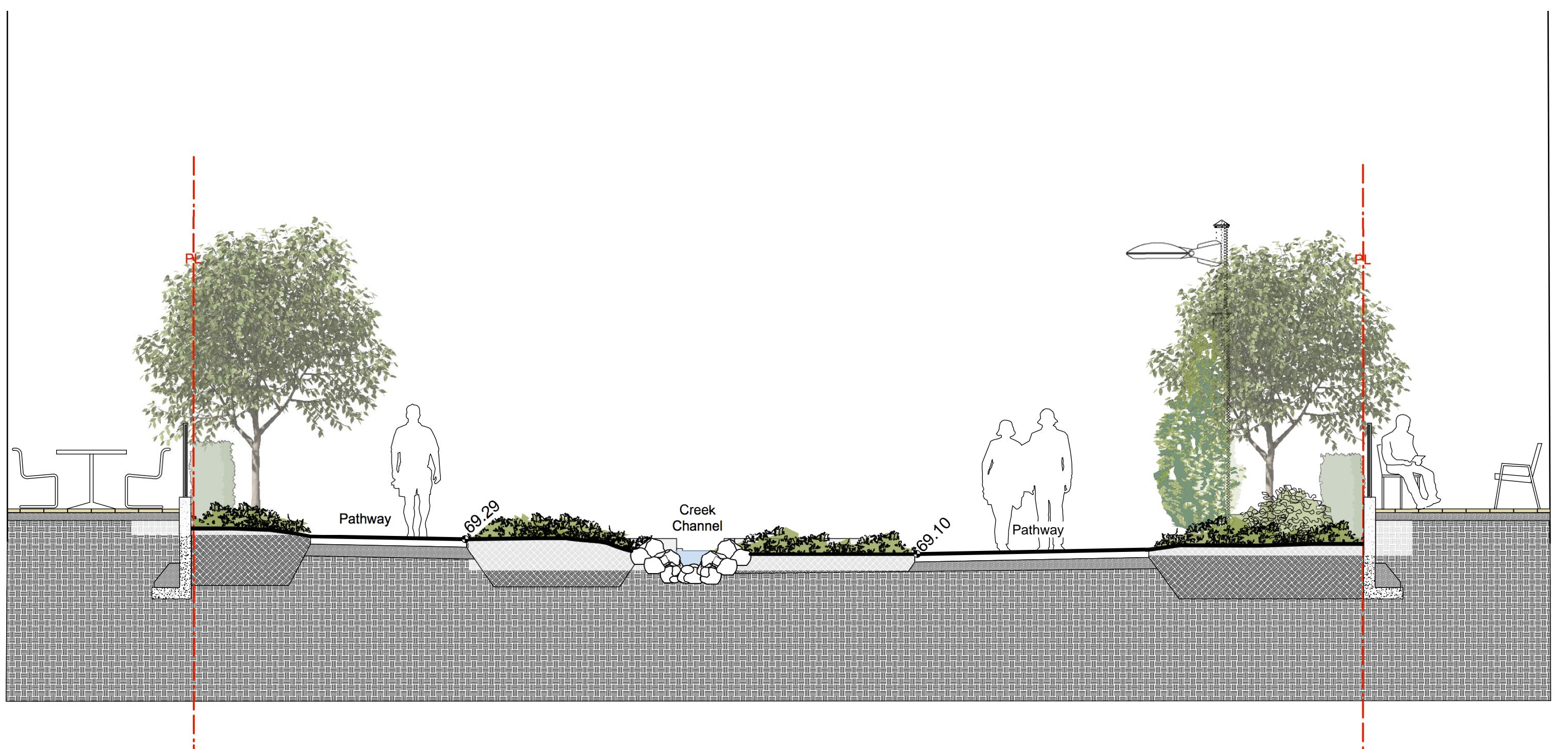
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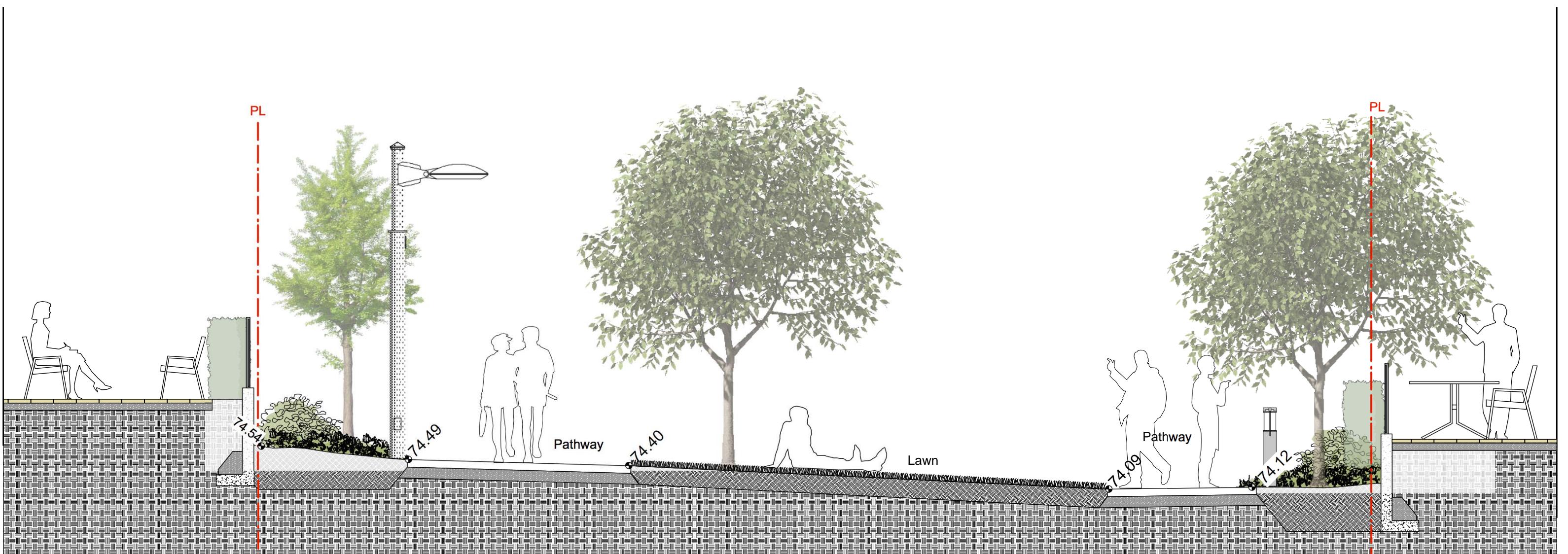
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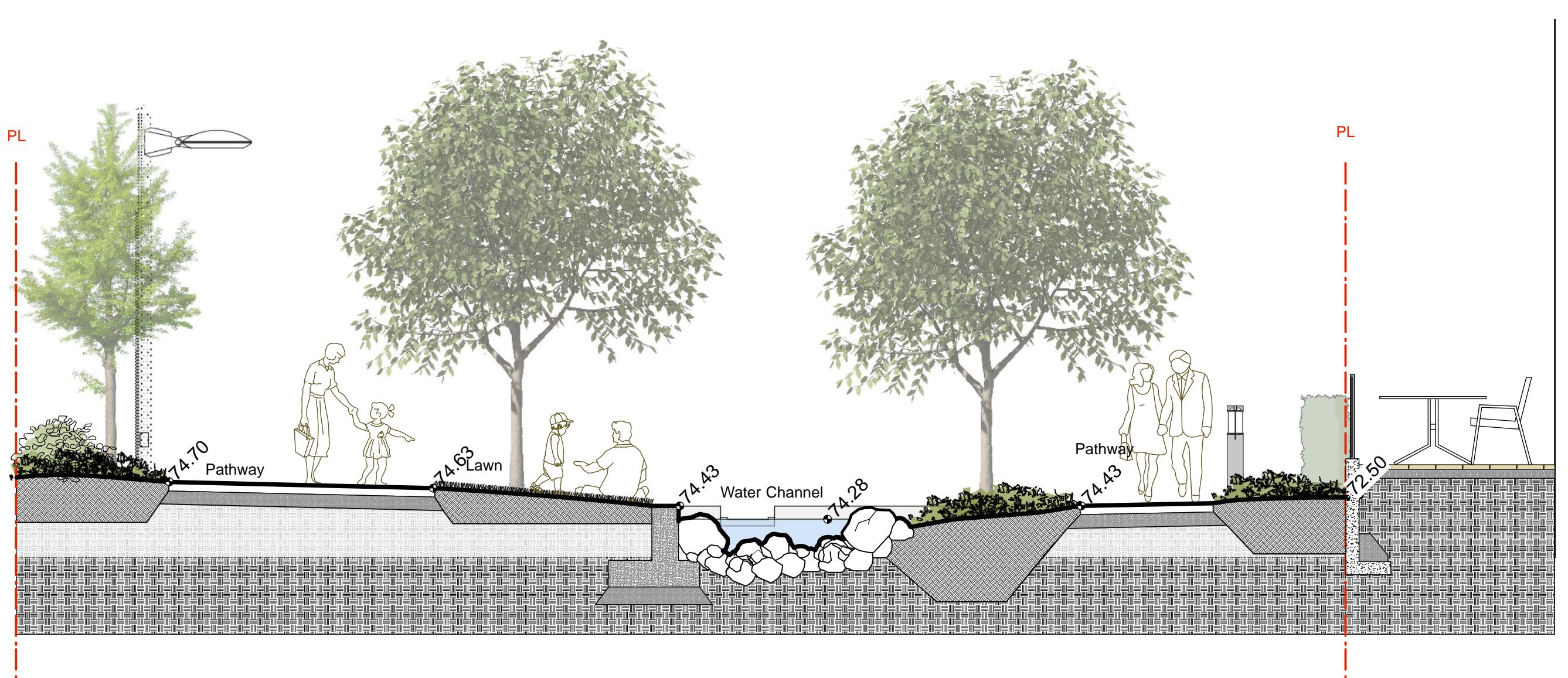




1 SECTION THROUGH SOUTHERN ARM



2 SECTION THROUGH WESTERN ARM



3 SECTION THROUGH NORTHERN ARM

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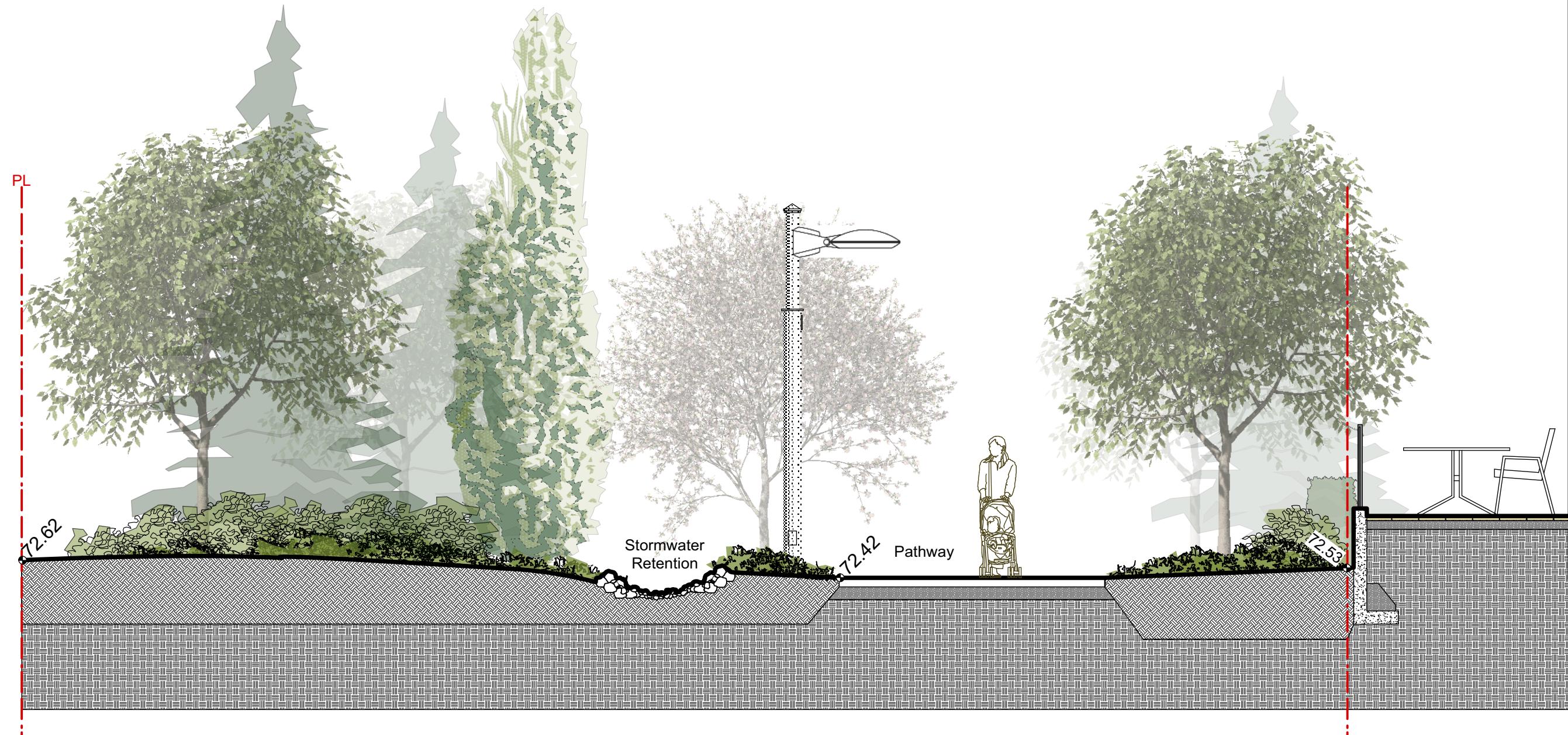
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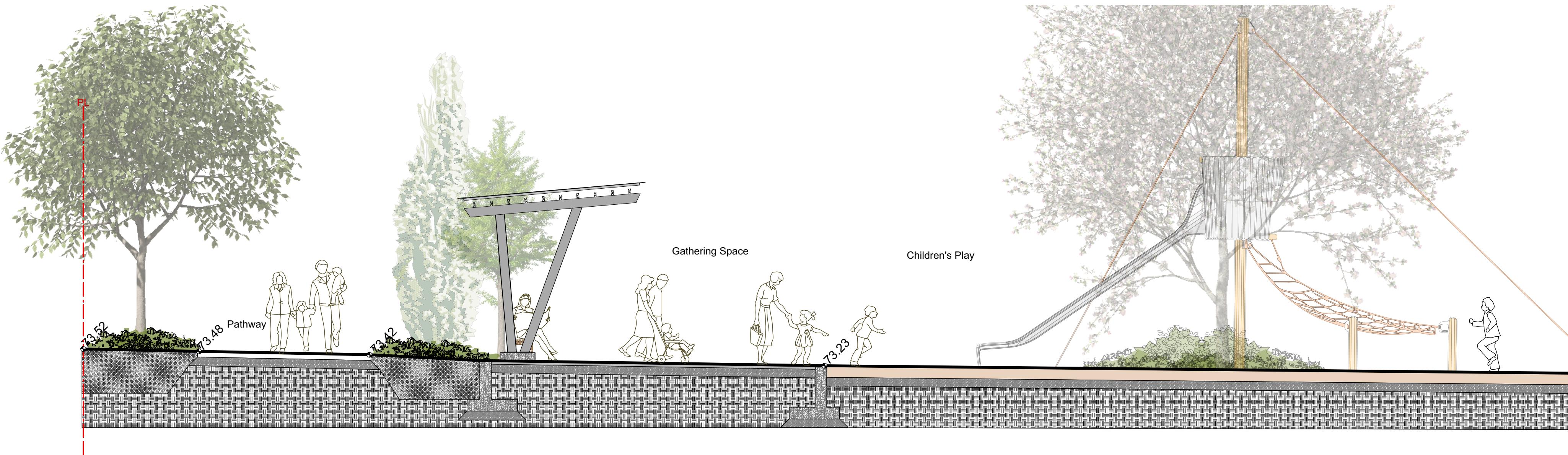
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UBC SC Research Park

Drawing Title:
Illustrative Sections

Project North: Drawn By: KS
Checked By: MP
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Sheet No.: As shown



4 SECTION THROUGH EASTERN ARM

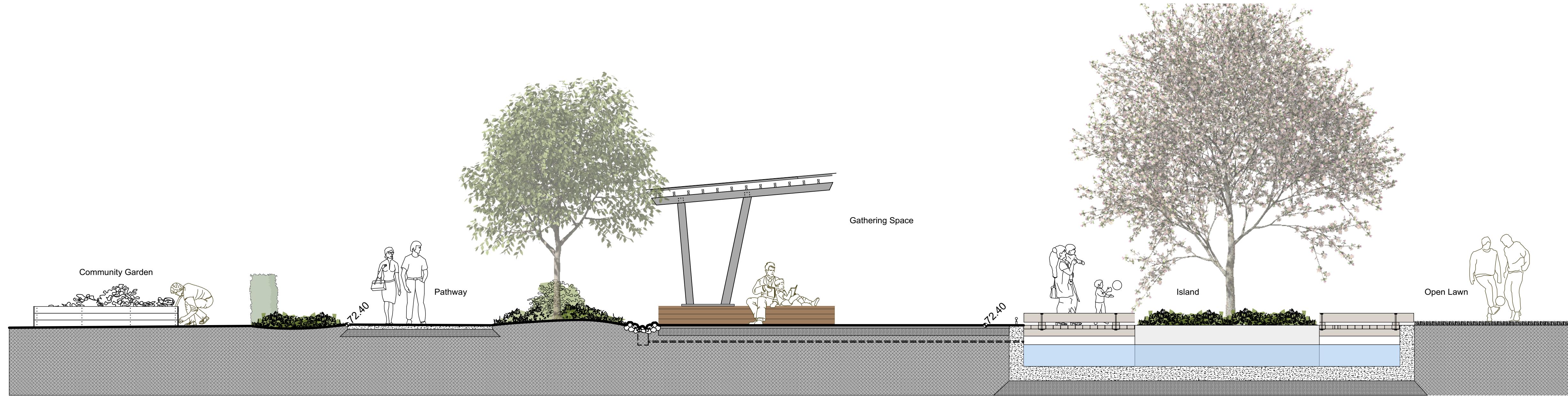


5 SECTION THROUGH PLAY AREA

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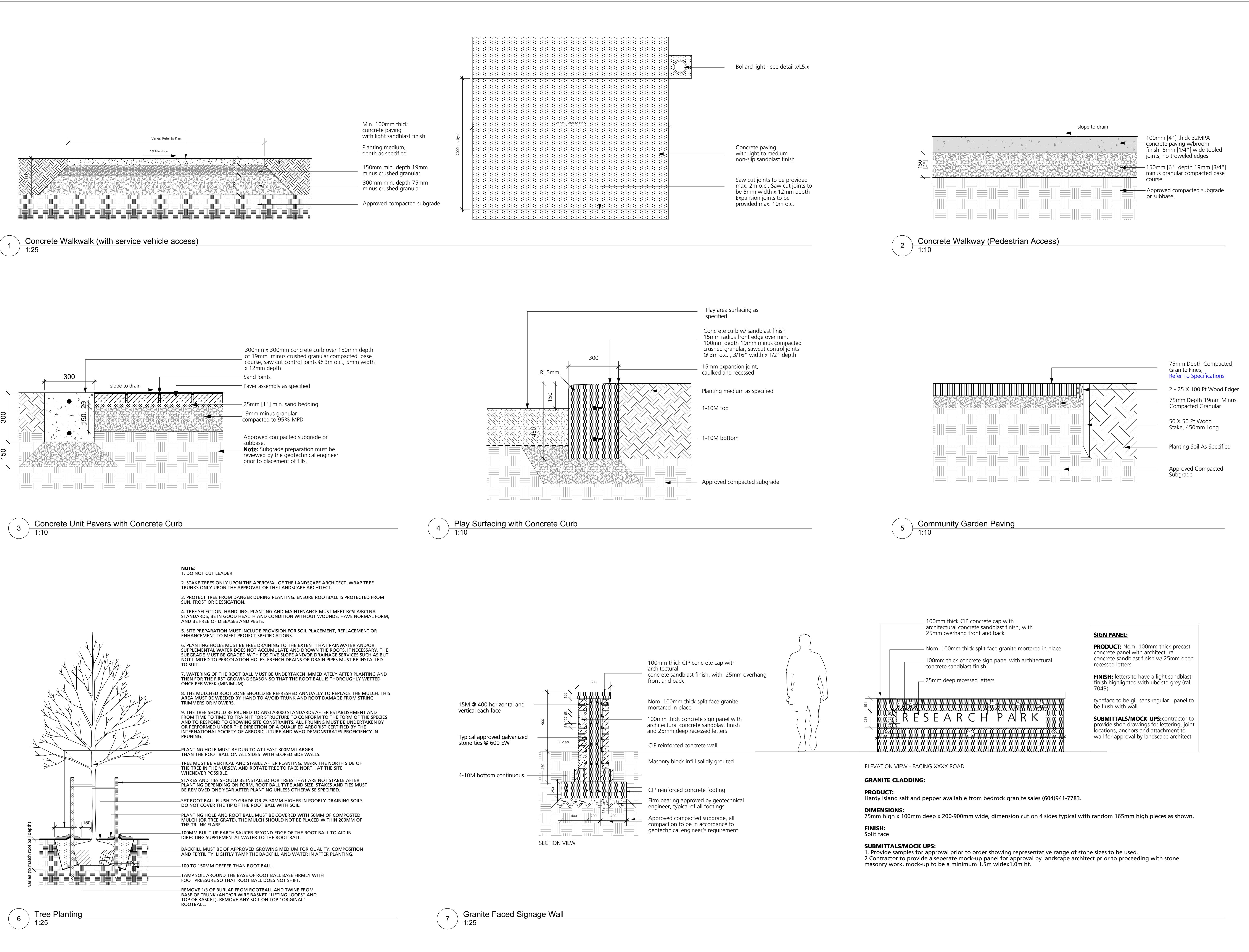
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Project Title:
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Drawing Title:
Illustrative Sections

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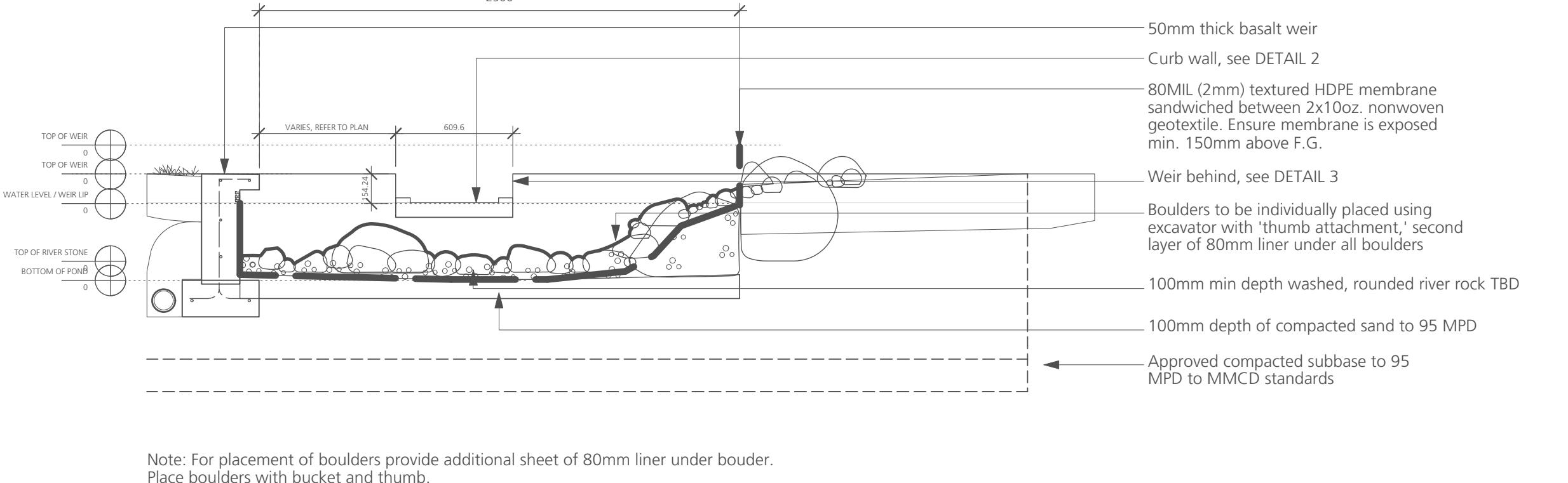
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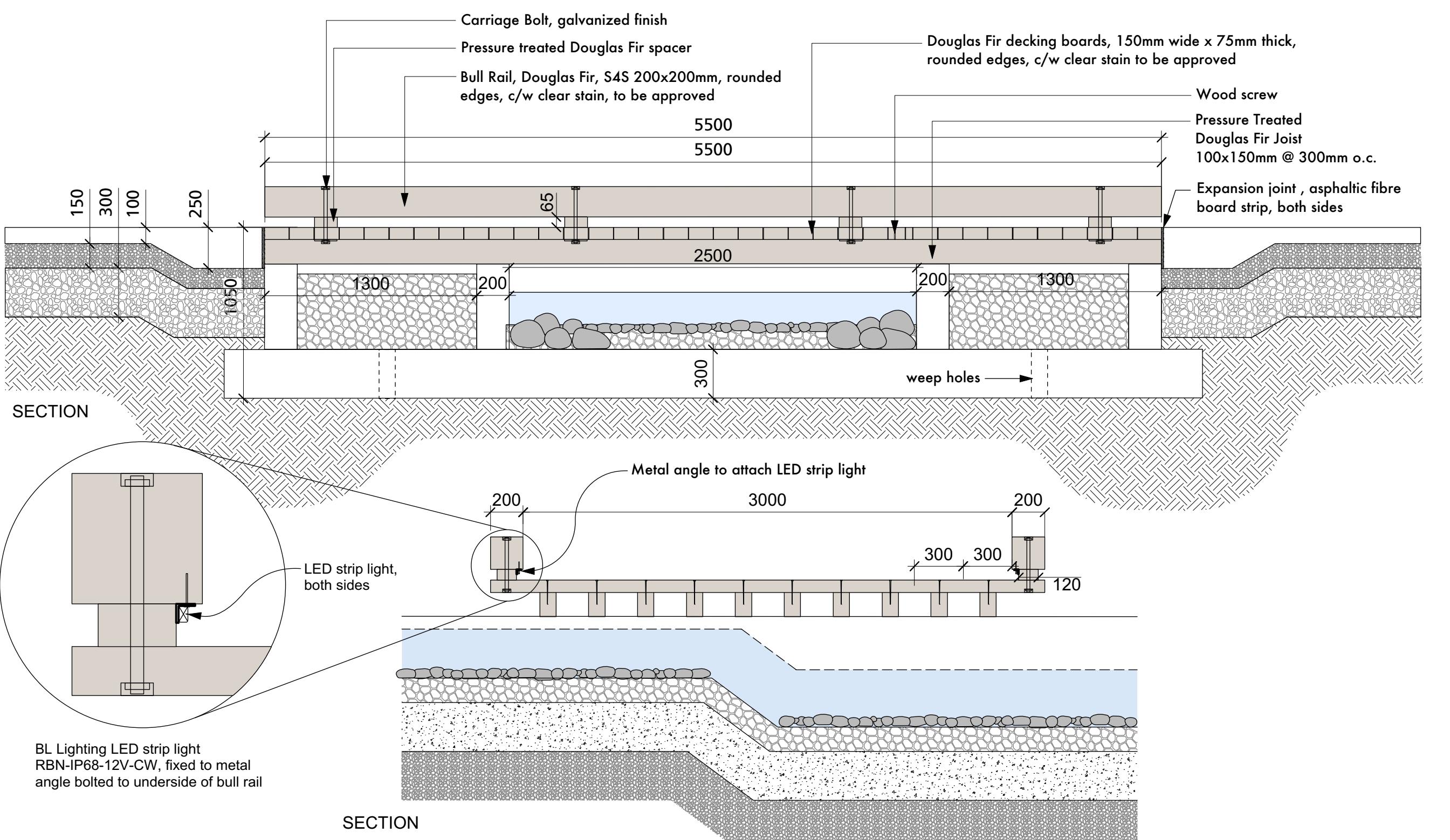
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Drawing Title:
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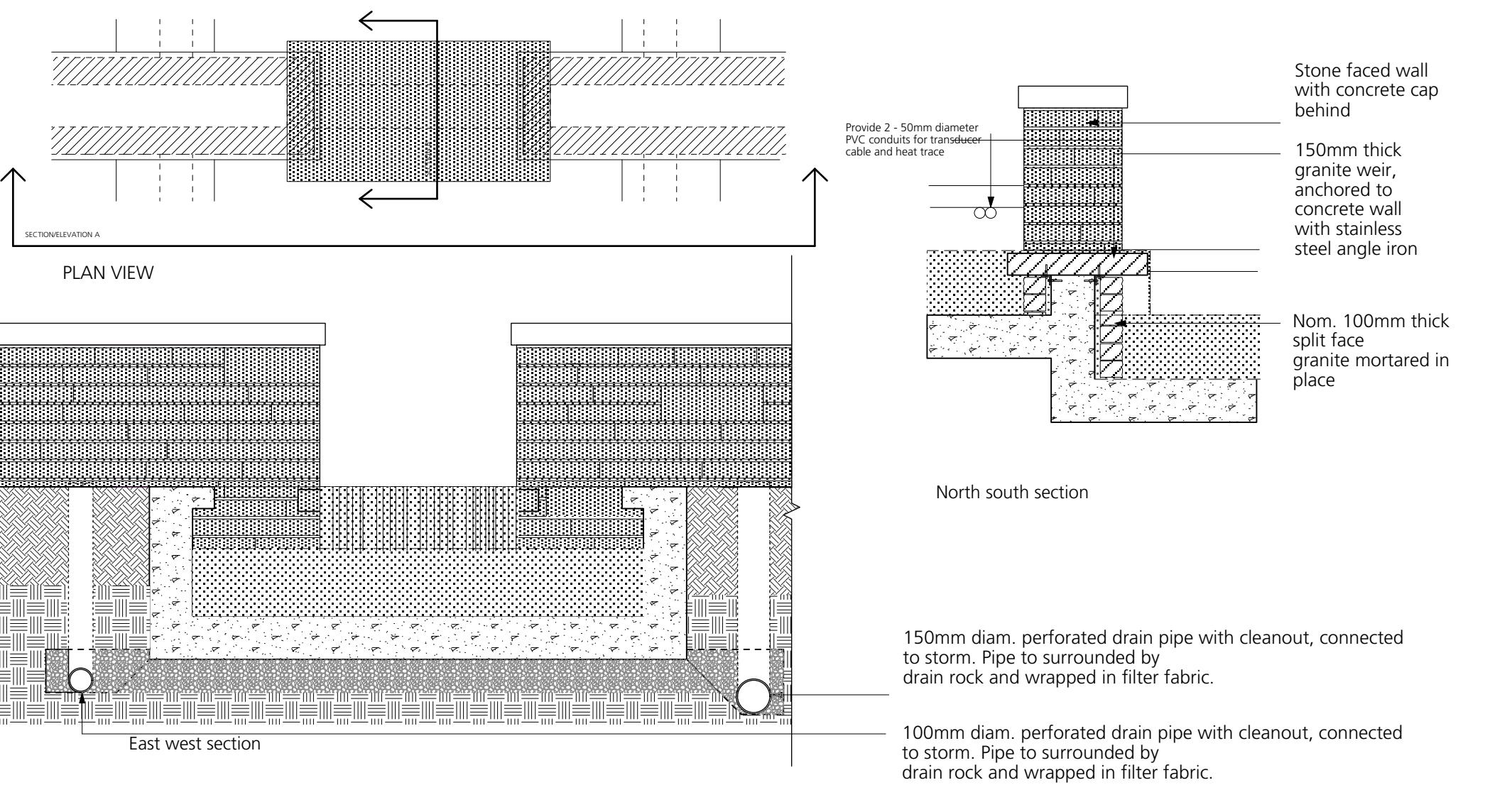
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8 Concrete Water Channel
1:25

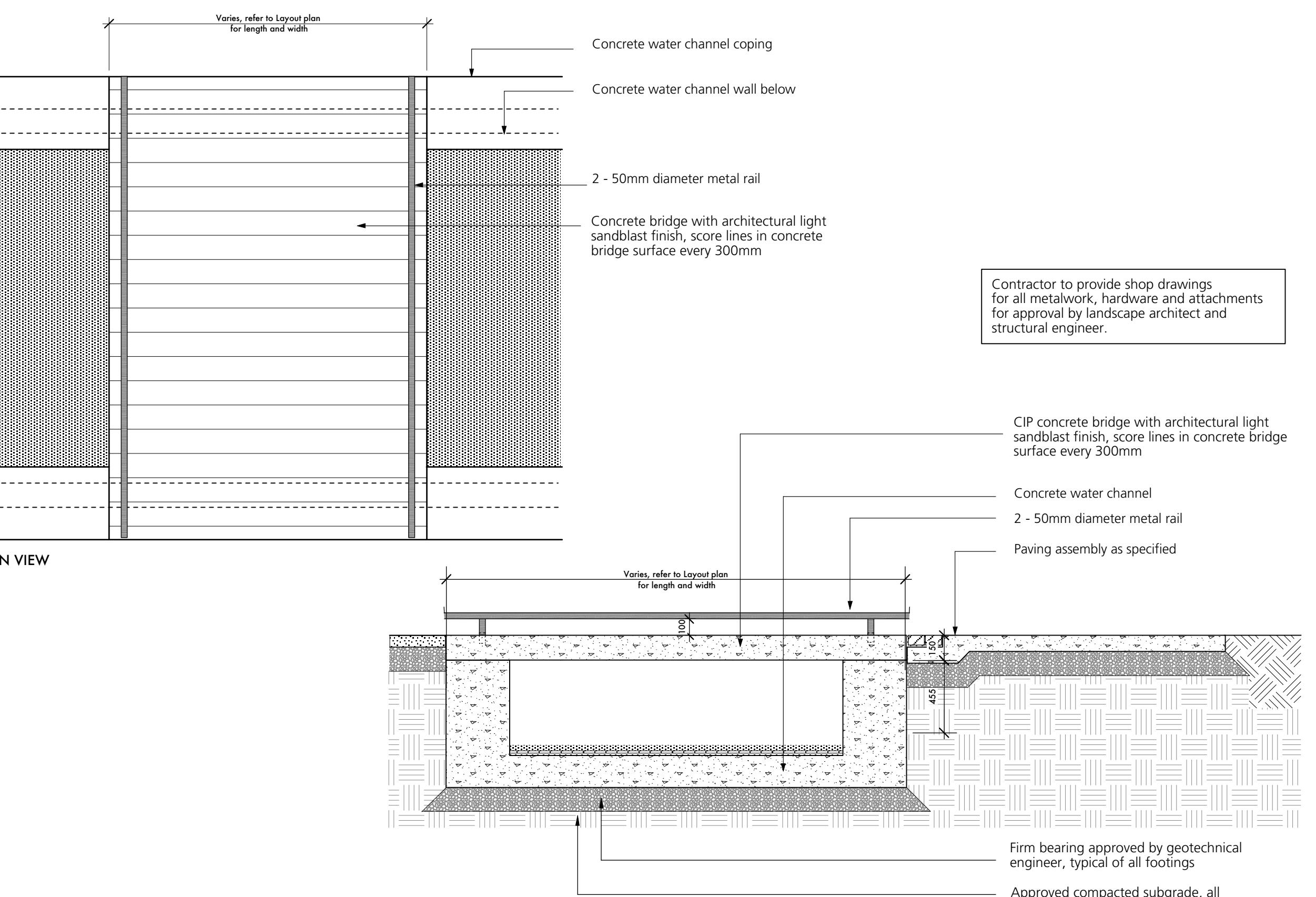


9 Wood Pedestrian Bridge
1:25



150mm diam. perforated drain pipe with cleanout, connected to storm. Pipe to be surrounded by drain rock and wrapped in filter fabric.

100mm diam. perforated drain pipe with cleanout, connected to storm. Pipe to be surrounded by drain rock and wrapped in filter fabric.



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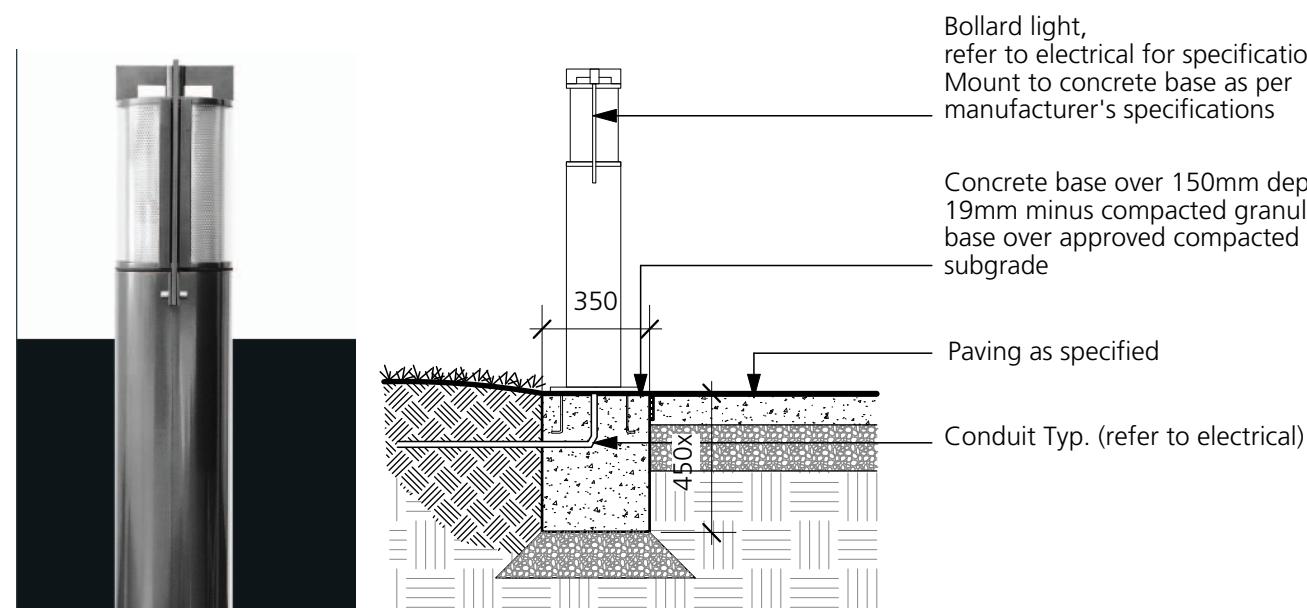
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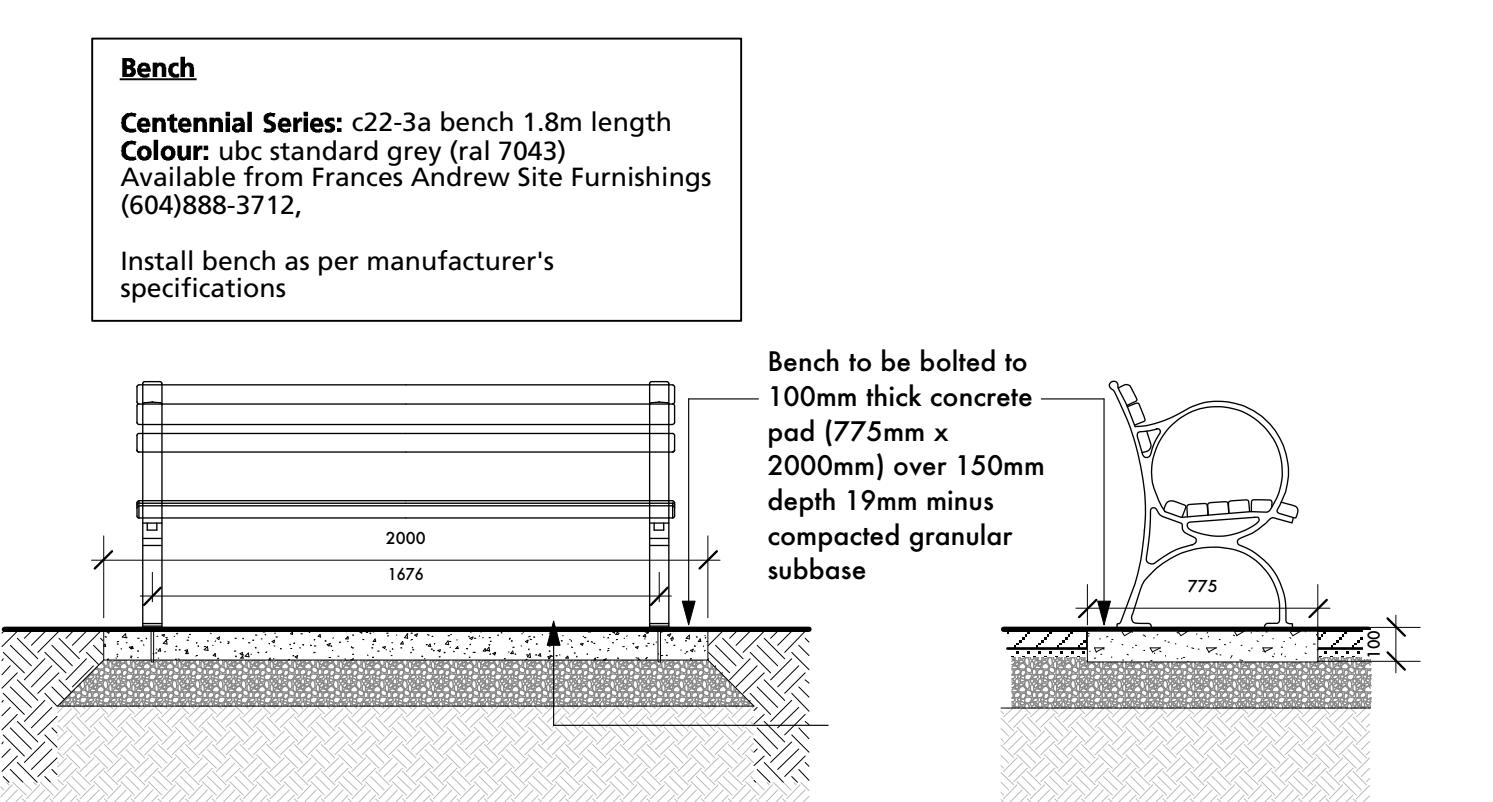
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Drawing Title: Landscape Details

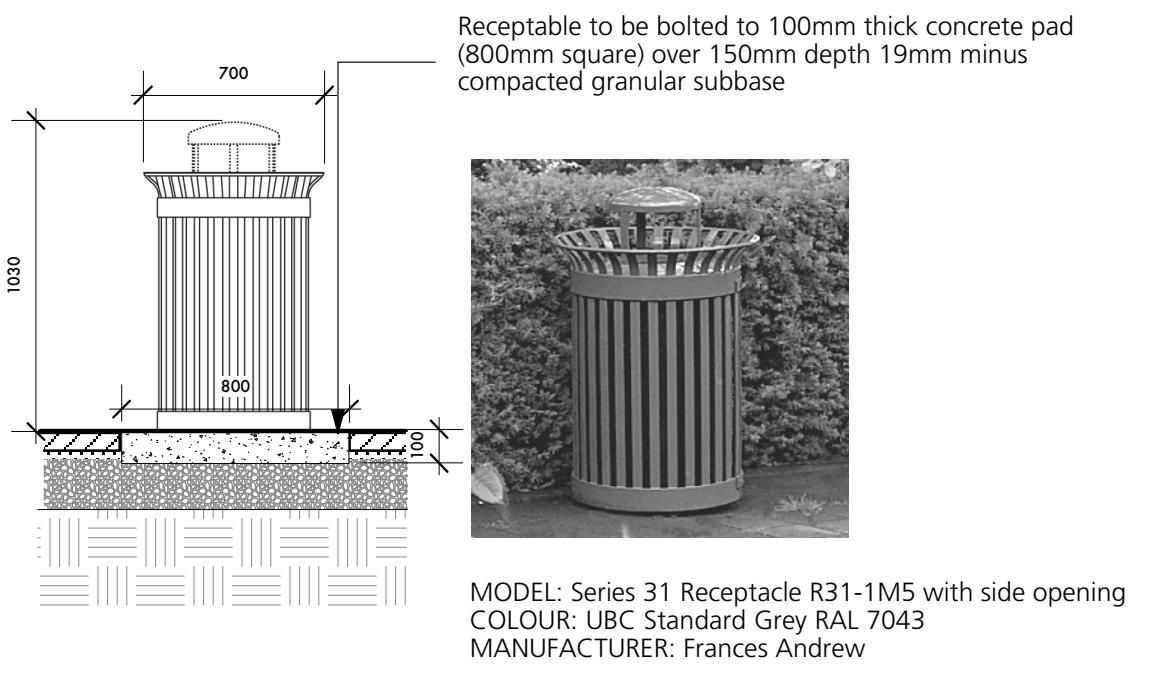
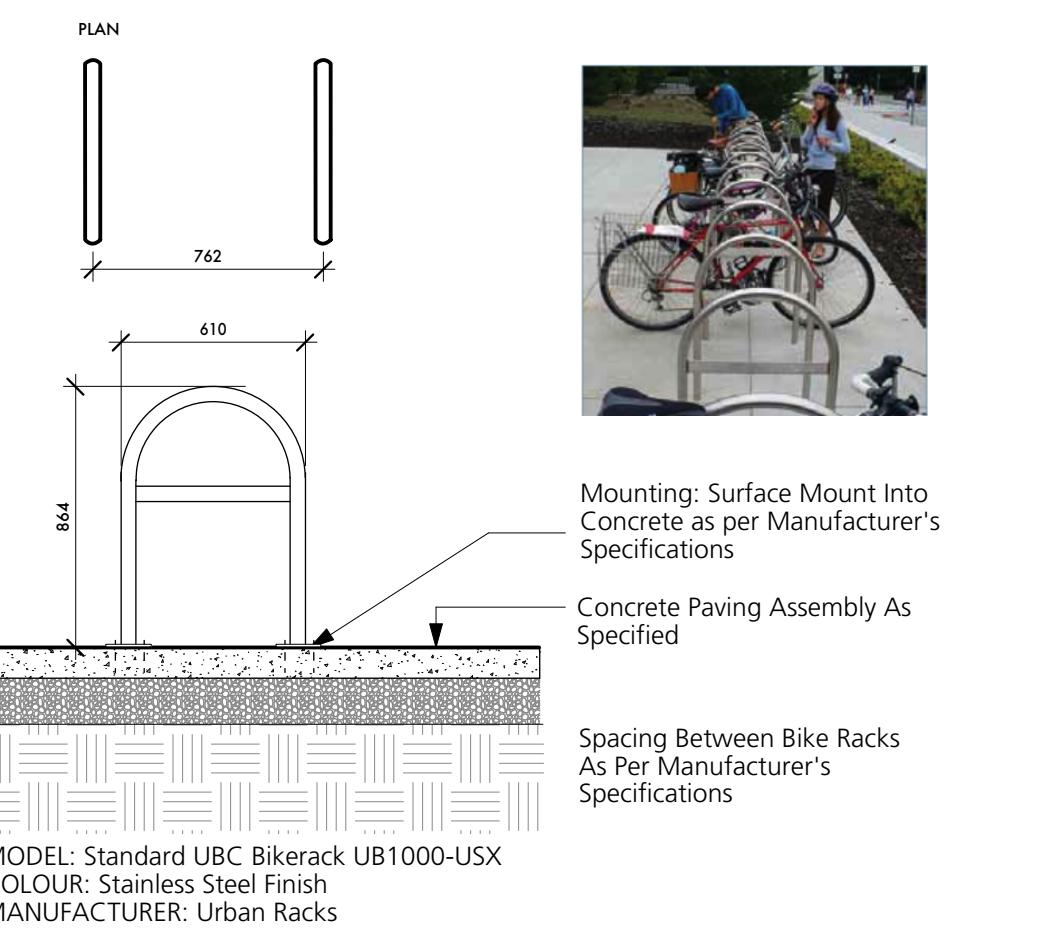
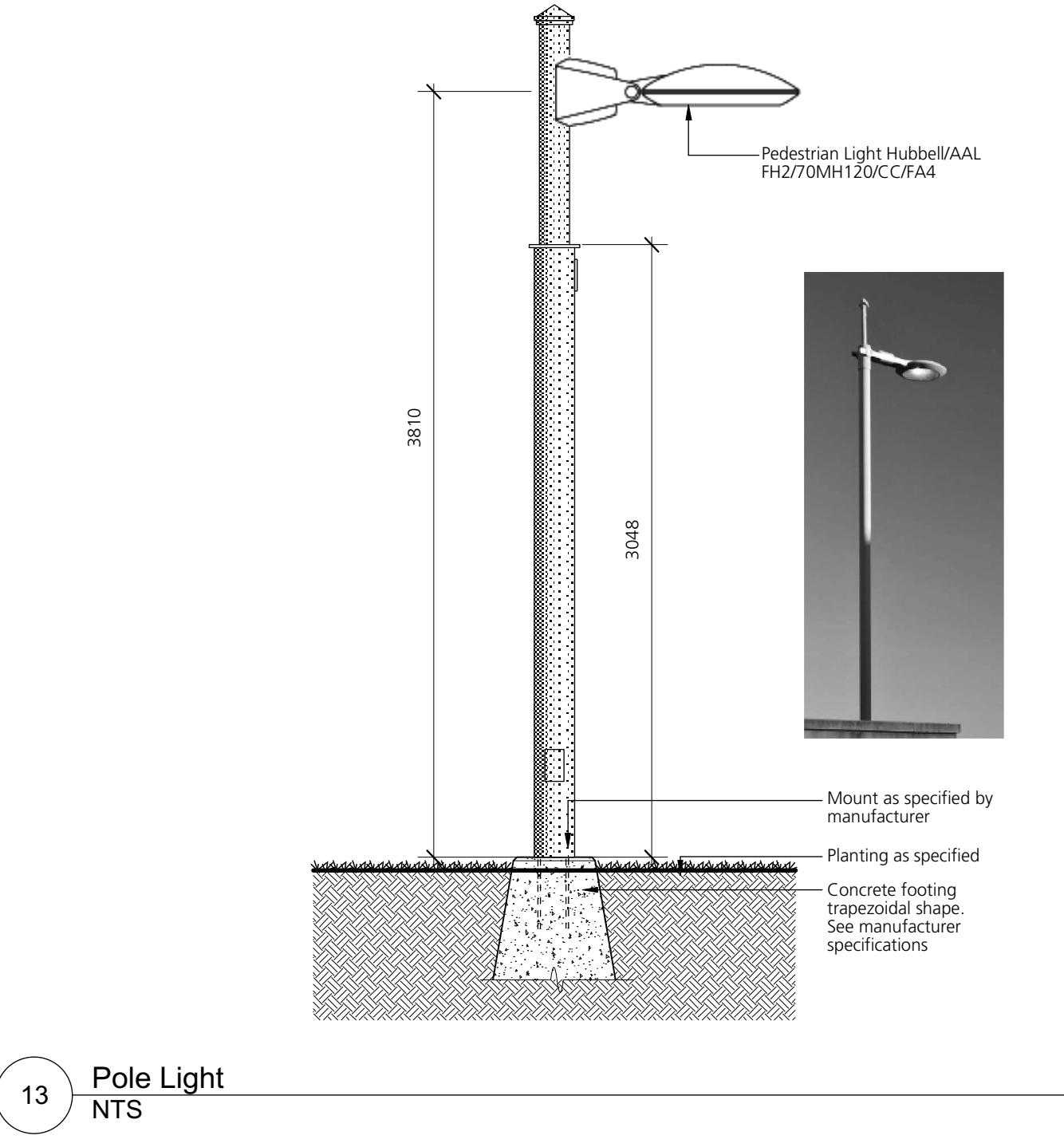
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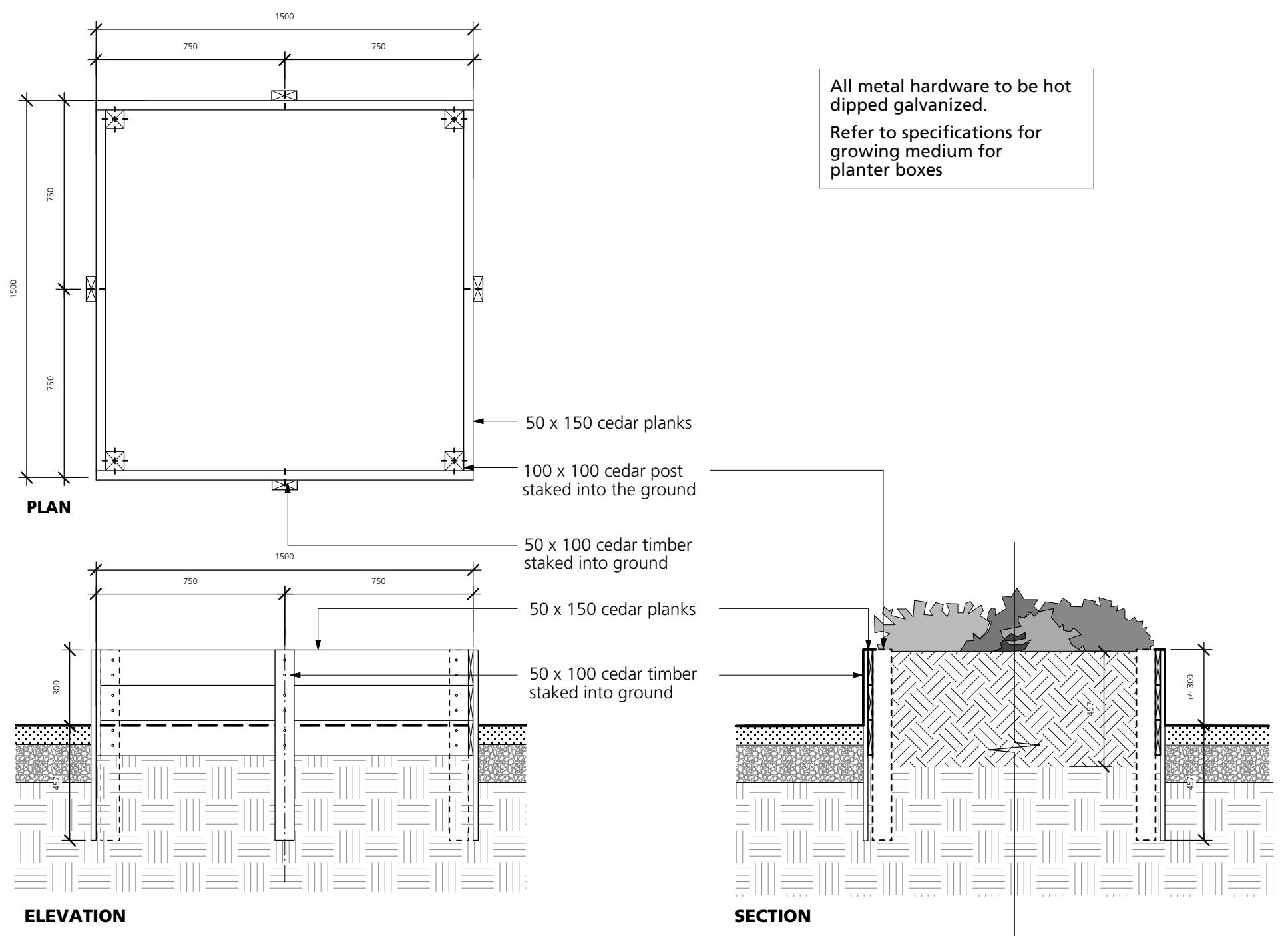
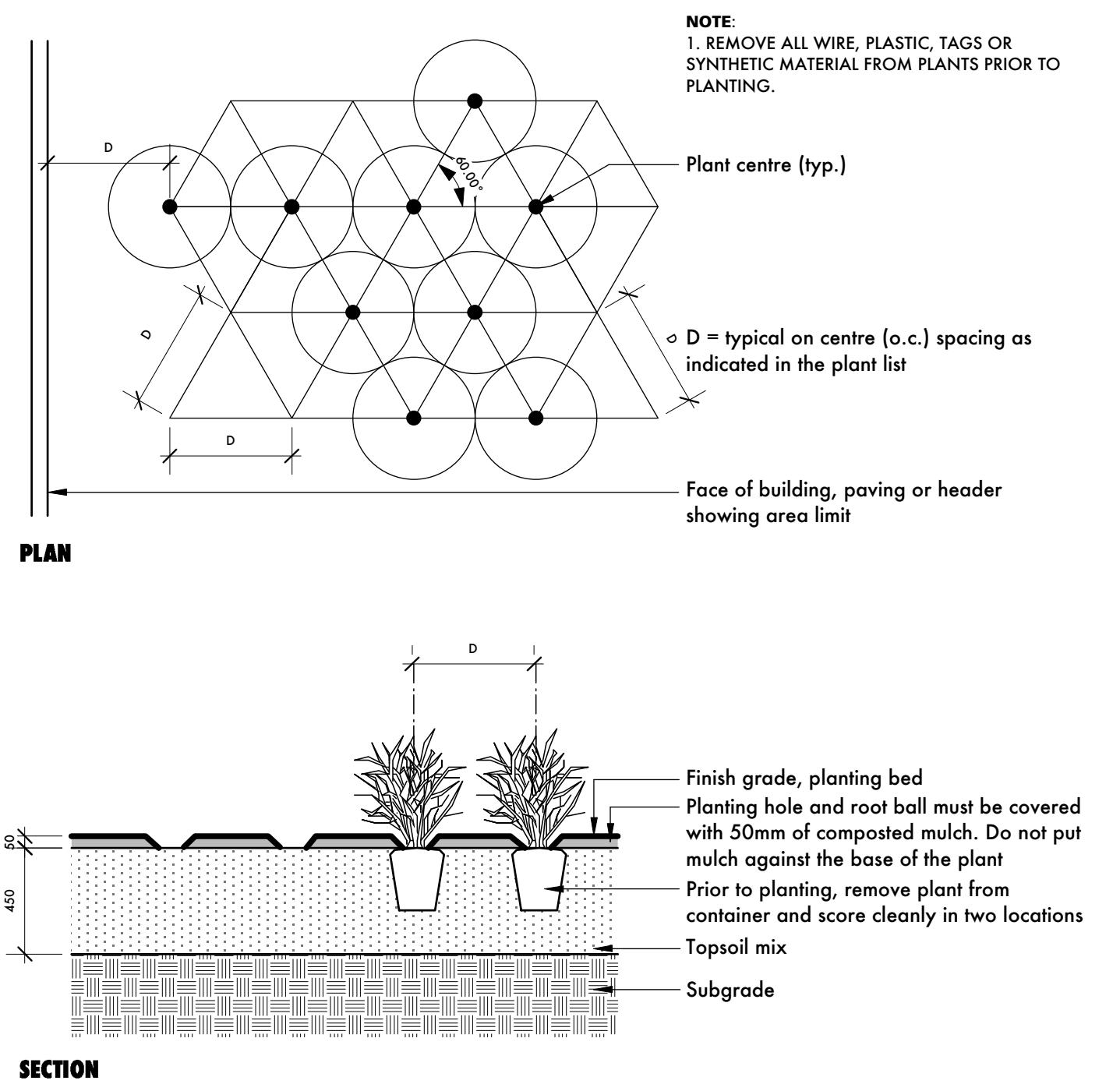
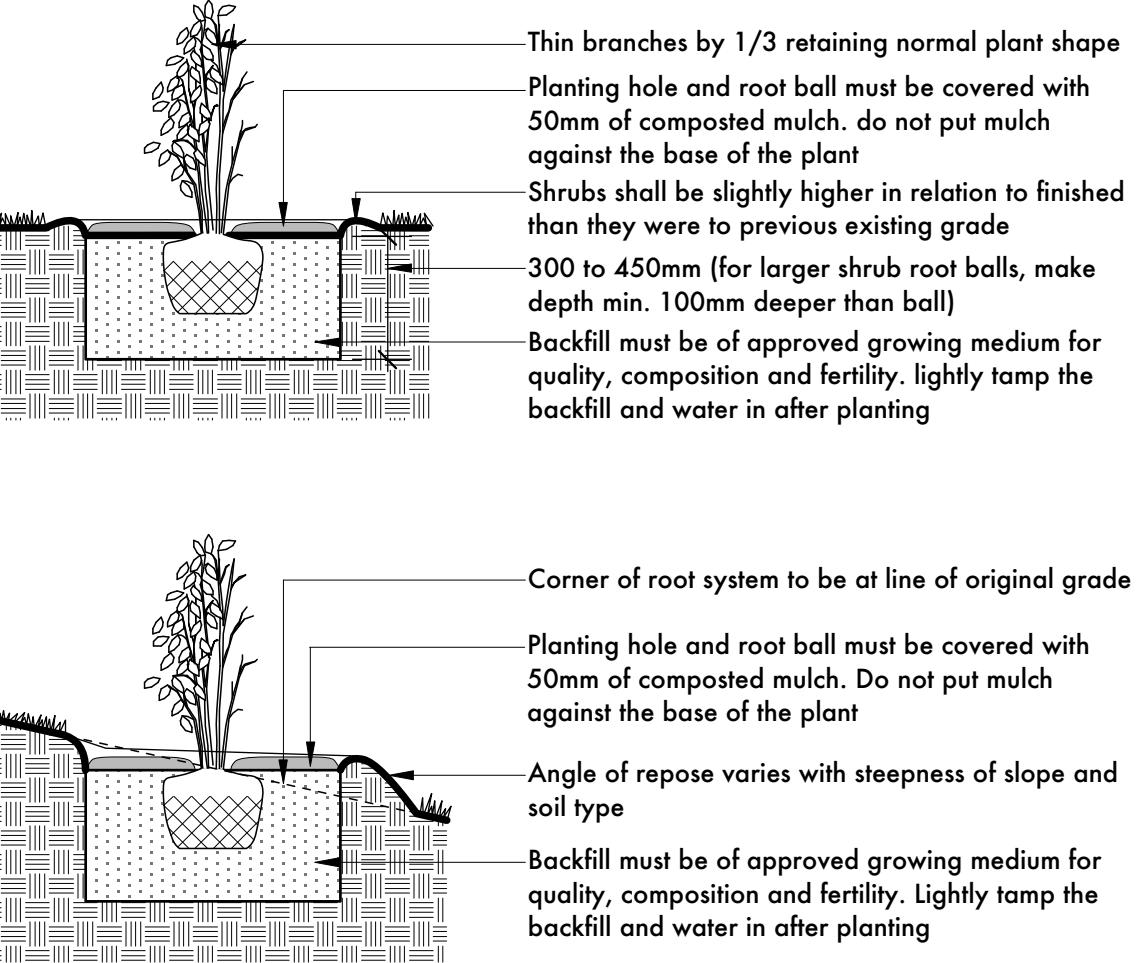
11 Bollard Light
NTS



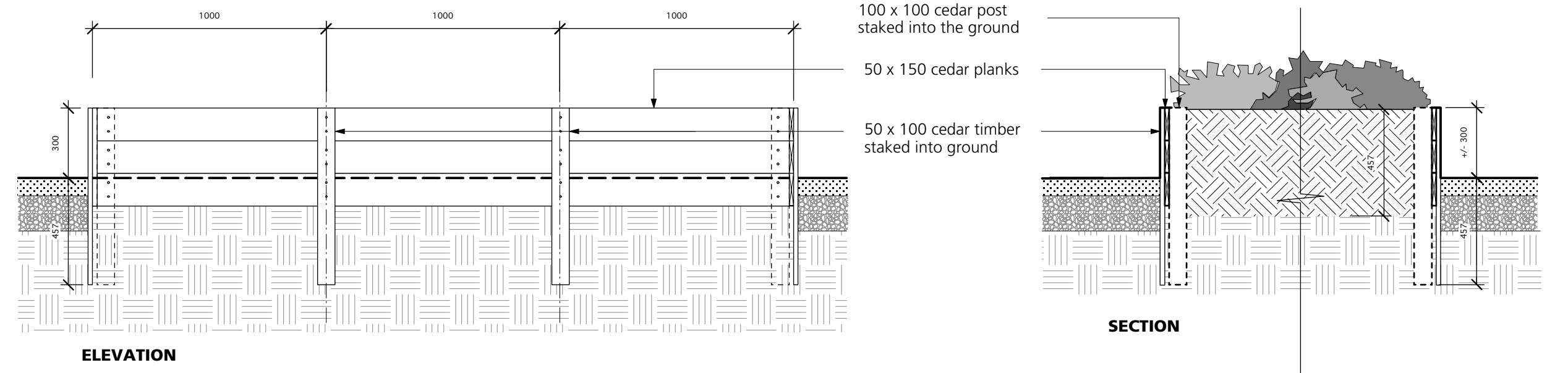
12 Frances Andrew Bench
1:25



NOTE:
1. MIN. ROOT SPREAD TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK."
2. FOR CONTAINER-GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS THAT CIRCLE THE PERIMETER OF THE CONTAINER. PRUNE ALL DAMAGED, DISEASED, OR WEAK LIMBS AND ROOTS.
3. CLEANLY PRUNE ALL DAMAGED ROOT ENDS.
4. FOLD BURLAP FROM TOP OF ROOT BALL DOWN INTO GROUND SET TOP OF BALL FLUSH WITH FINISH GRADE.
5. DO NOT ALLOW ROOTS TO DRY OUT DURING INSTALLATION PROCESS.
6. SOAK ROOTS IN WATER OVERNIGHT BEFORE PLANTING.



Community Garden Planter Box Type 1
1:20



Community Garden Planter Box Type 2
1:20



11 cubic feet recycled plastic 'garden gourmet' compost bin or approved equal
Available from www.gardengourmet.com
Colour: black
Assemble as per manufacturer's specifications.

Community Garden Compost Bin
NTS

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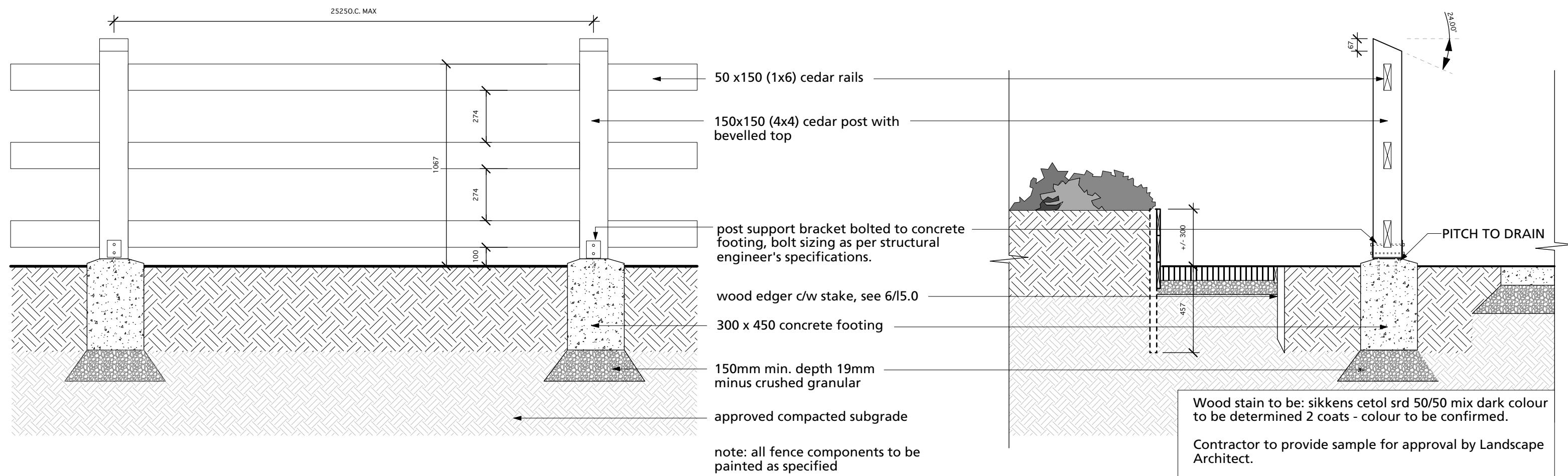
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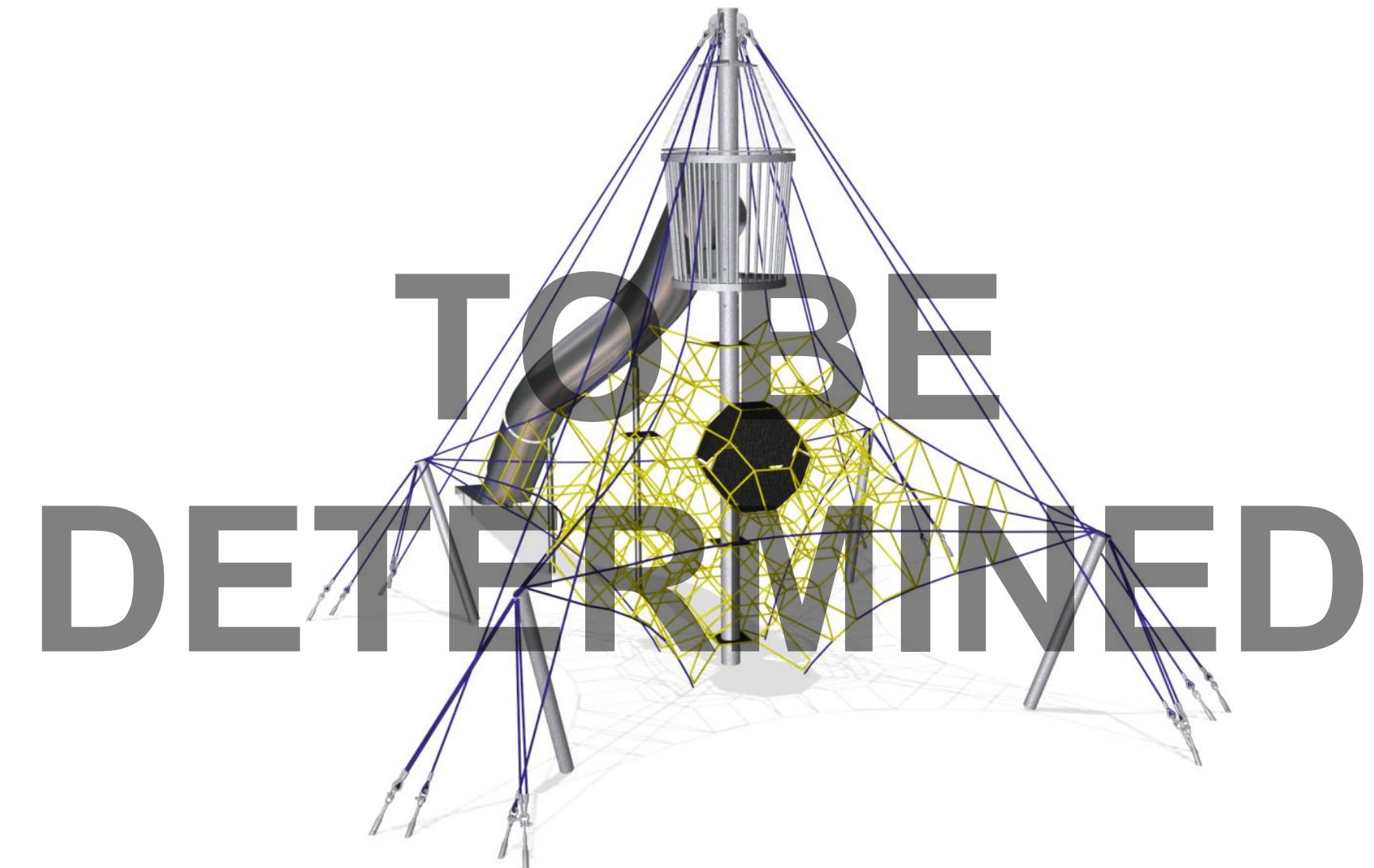
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Drawing Title: **Landscape Details**

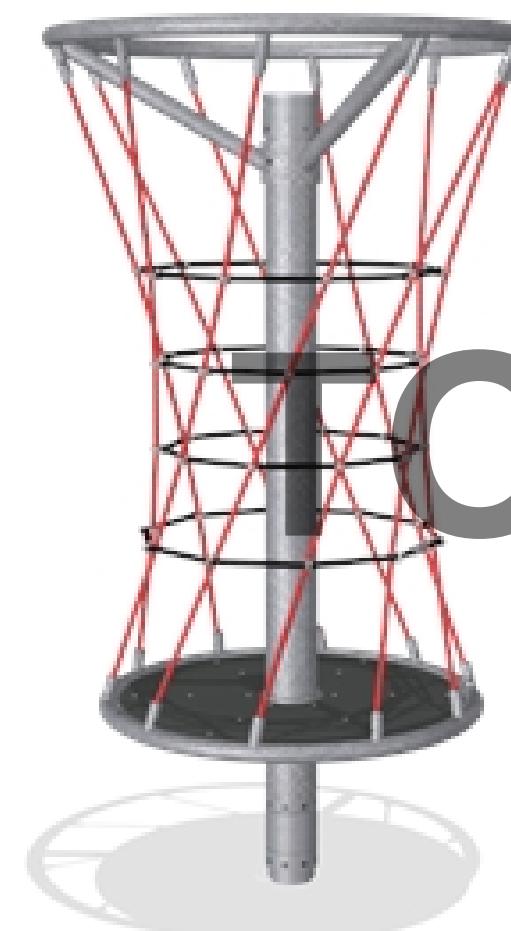
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21 Community Garden Fence
1:20



22 Playground Climber
NTS



23 Playground Spinner
NTS

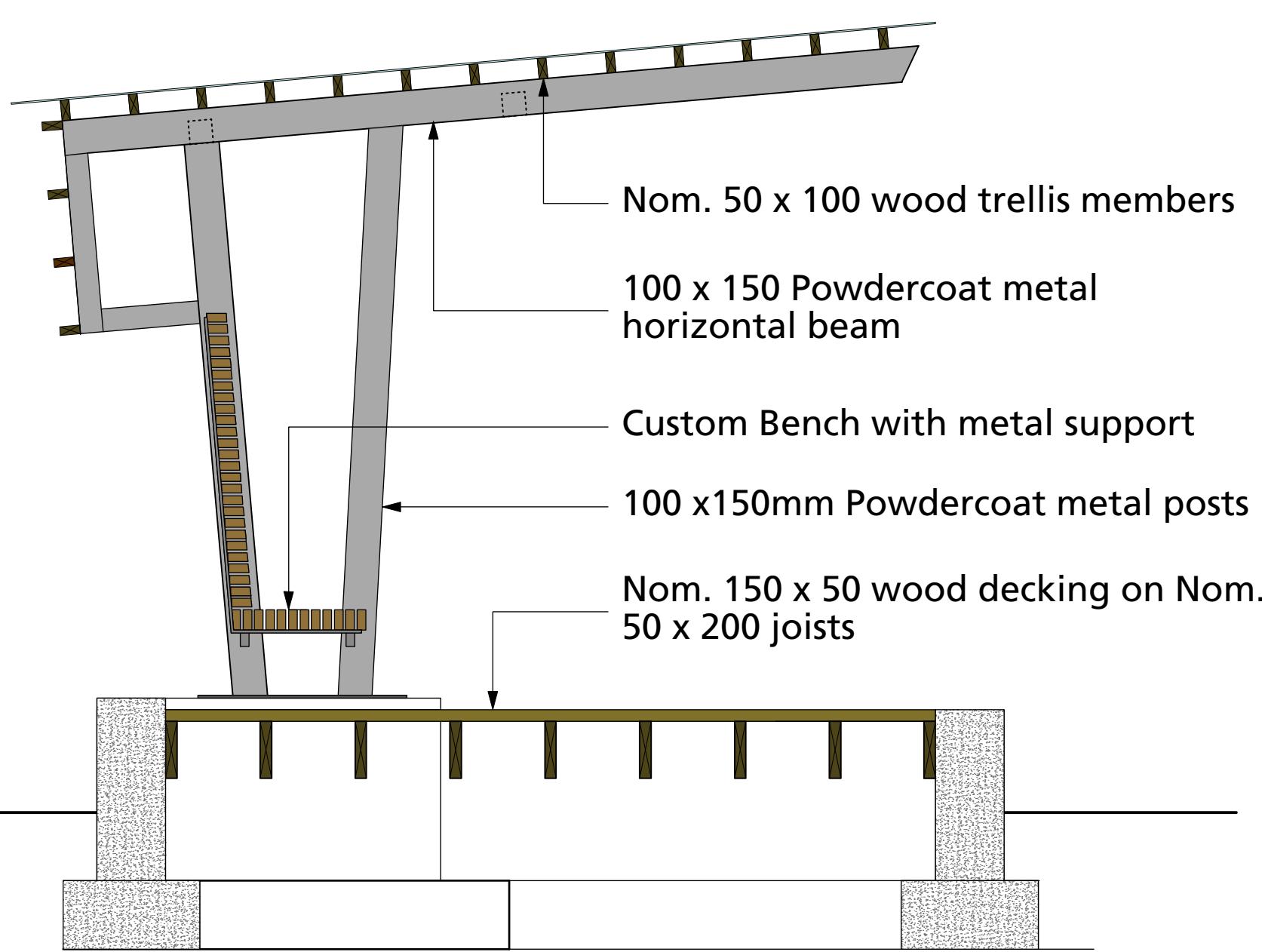


24 Playground Swings
NTS

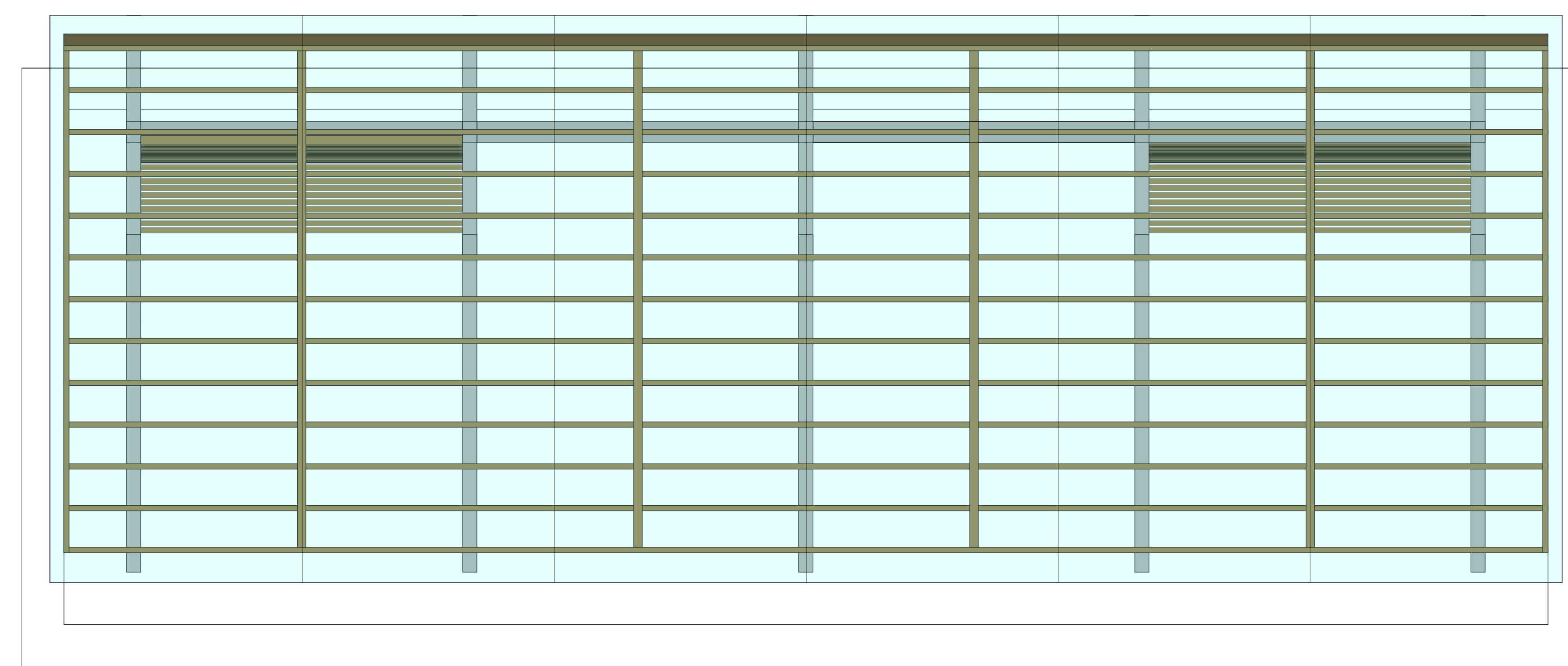


MEDIUM SIZED
 - 10' average height
 - 13' average length
 - Approx 350 sf
 - \$25,000 +
 shipping / craning

Boulder by Eldorado Wall Company



26 Trellis Detail
1:50



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L5.3