

# DEVELOPMENT PERMIT SUBMISSION

## BURNSIDE PHASE 2

### LANDSCAPE DRAWING INDEX

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### GENERAL NOTES

1. A SURVEY HAS BEEN PROVIDED BY THE CLIENT FOR THIS PROJECT. IT HAS BEEN REFORMATTED FOR USE IN AND FOR PREPARING THESE DOCUMENTS. CONTRACTOR SHALL OBTAIN AN OFFICIALLY SIGNED COPYFROM THE CLIENT AND BECOME FAMILIAR WITH IT, THE EXISTING CONDITIONS AND SITE CONTEXT PRIOR TO CONSTRUCTION. ALL DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION IMMEDIATELY. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS ASSOCIATED WITH PREPARATION OR DOCUMENTATION OF SURVEY.
- 2.THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
- 3.THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR ADHERENCE TO ORDINANCES, REGULATIONS, LAWS AND CODES HAVING JURISDICTION OVER THE PROPERTY PRIOR TO COMMENCING WORK.
- 4.CONTRACTOR IS RESPONSIBLE FOR DETERMINING MEANS AND METHODS FOR CONSTRUCTION. THESE DRAWINGS MAY INDICATE A LIMIT OF PROPOSED IMPROVEMENTS, LIMITS OF SITE DEMOLITION, ETC. FOR DELINEATION OF EXPECTED EXTENTS OF DISTURBANCE. HOWEVER, FINAL IMPACT SHALL BE DETERMINED IN THE FIELD. SHOULD LIMITS OF DISTURBANCE EXCEED BOUNDARIES DEFINED IN DRAWINGS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION.
5. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS; ADDITIONAL UTILITIES NOT SHOWN ON THE DRAWINGS MAY EXIST. VERIFY IN THE FIELD THE DATA SHOWN, AND CALL ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BEFORE STARTING WORK.
- 6.CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL WORK DISTURBED BY CONSTRUCTION OUTSIDE OF LIMIT LINES DEFINED ON DRAWINGS OR THROUGH HIS/HER MEANS AND METHODS TO A CONDITION BETTER THAN OR EQUAL TO THE EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 7.CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A COMPLETE UP-TO-DATE SET OF DRAWINGS AND SPECIFICATIONS AT THE CONSTRUCTION SITE AND ENSURING THE DOCUMENTS ARE READILY AVAILABLE FOR REVIEW BY THE LANDSCAPE ARCHITECT AND GOVERNING AGENCY.
- 8.THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO ONE ANOTHER AND IMPLIED TO CORRESPOND WITH ONE ANOTHER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION IMMEDIATELY.
- 9.LANDSCAPE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND ENGINEERING DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR REVIEW AND RESPONSE.
10. ALL OFF-SITE WORKS TO CONFORM TO CITY OF VICTORIA DESIGN STANDARDS, INCLUDING: HARDSCAPE PAVING, FURNIHSINGS, TREES, PLANTING AND GROWING MEDIA.

### KEYPLAN



### SEAL

6	ISSUED FOR DP	25-08-20
5	ISSUED FOR DP	24-11-28
4	ISSUED FOR REZONING	22-10-28
3	ISSUED FOR REVIEW	22-09-15
2	ISSUED FOR REVIEW	22-07-19
1	ISSUED FOR REVIEW	22-07-11

### REVISIONS

## INTRACORP GORGE PH2

Scale:	
Drawn:	YL
Reviewed:	OM
Project No.	06-793

### COVER PAGE



# DESIGN VISION AND PRINCIPLES

The landscape design will seek to inspire by providing connections to nature and fostering community, accessibility and placemaking.



## PLACEMAKING

### CONTEXT & REFERENCE TO PLACE

Acknowledge the site's natural and cultural character, capture imagination and identify a recognizable design expression grounded in this place.



## COMMUNITY BUILDING

### MEANINGFUL PUBLIC SPACE

Provide meaningful routes, places of destination, delight and overlook for people to gather, play and explore.



## NEIGHBOURHOOD CONNECTIVITY

### MAKE THE SITE ACCESSIBLE

Routes and connections between public spaces and built edges should be clear, inviting, seamless and effortless for all users.



## WATERFRONT CONNECTIVITY

### ACCESS TO NATURE

Connections between the local community and the Gorge should be direct, welcoming and accessible for all users.

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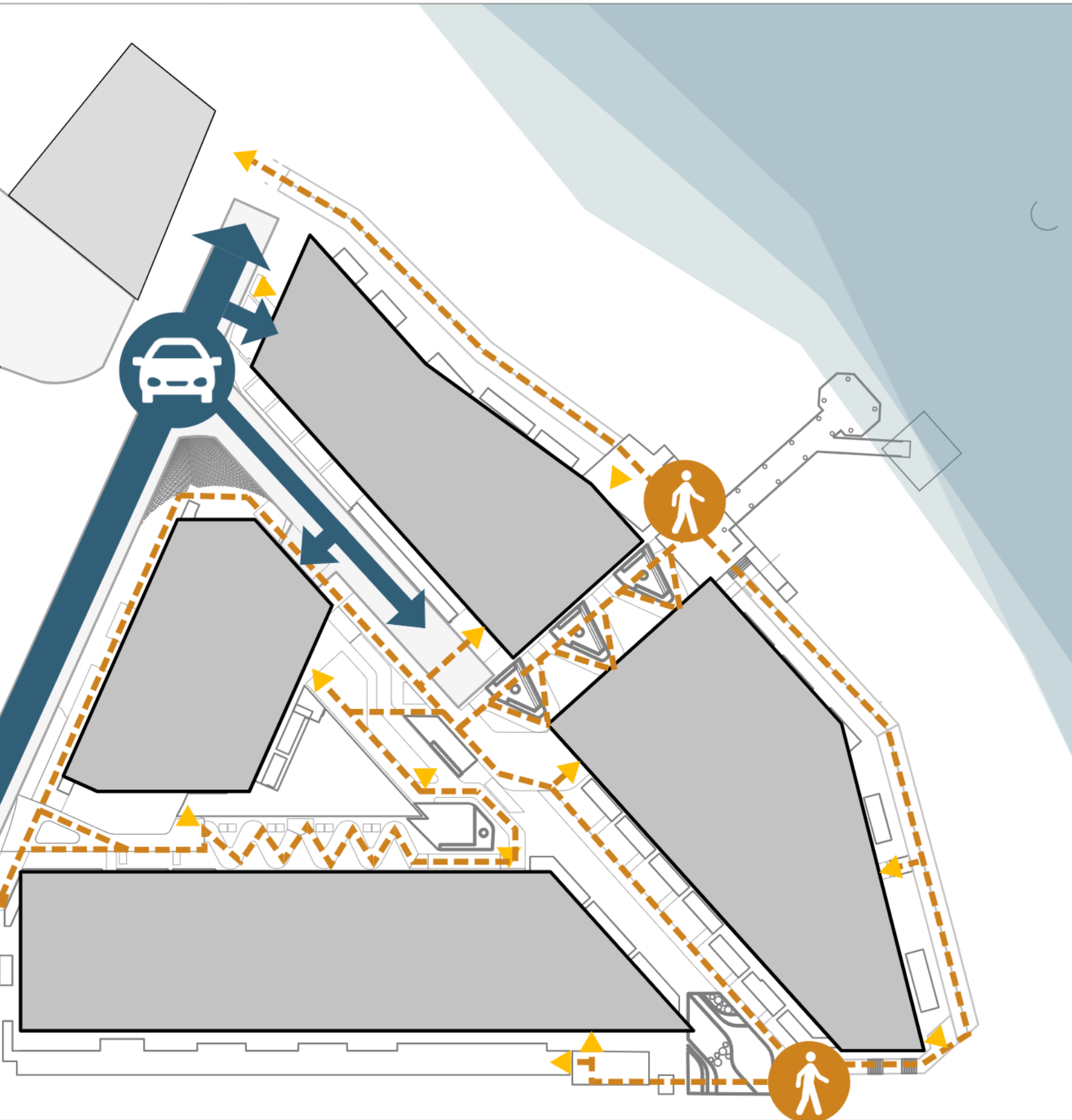
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## INSPIRATION & PRINCIPLES

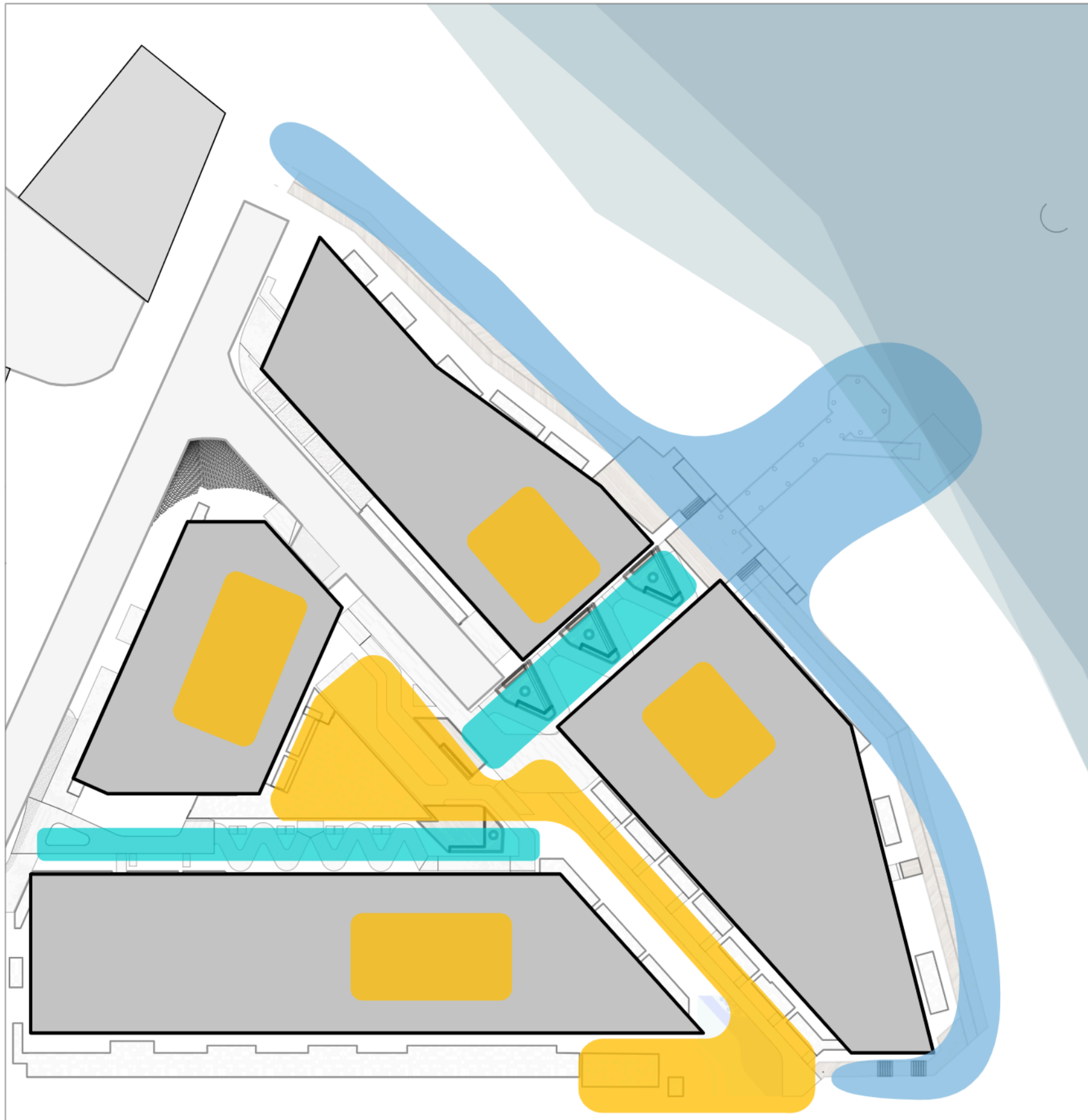


DIAGRAMS



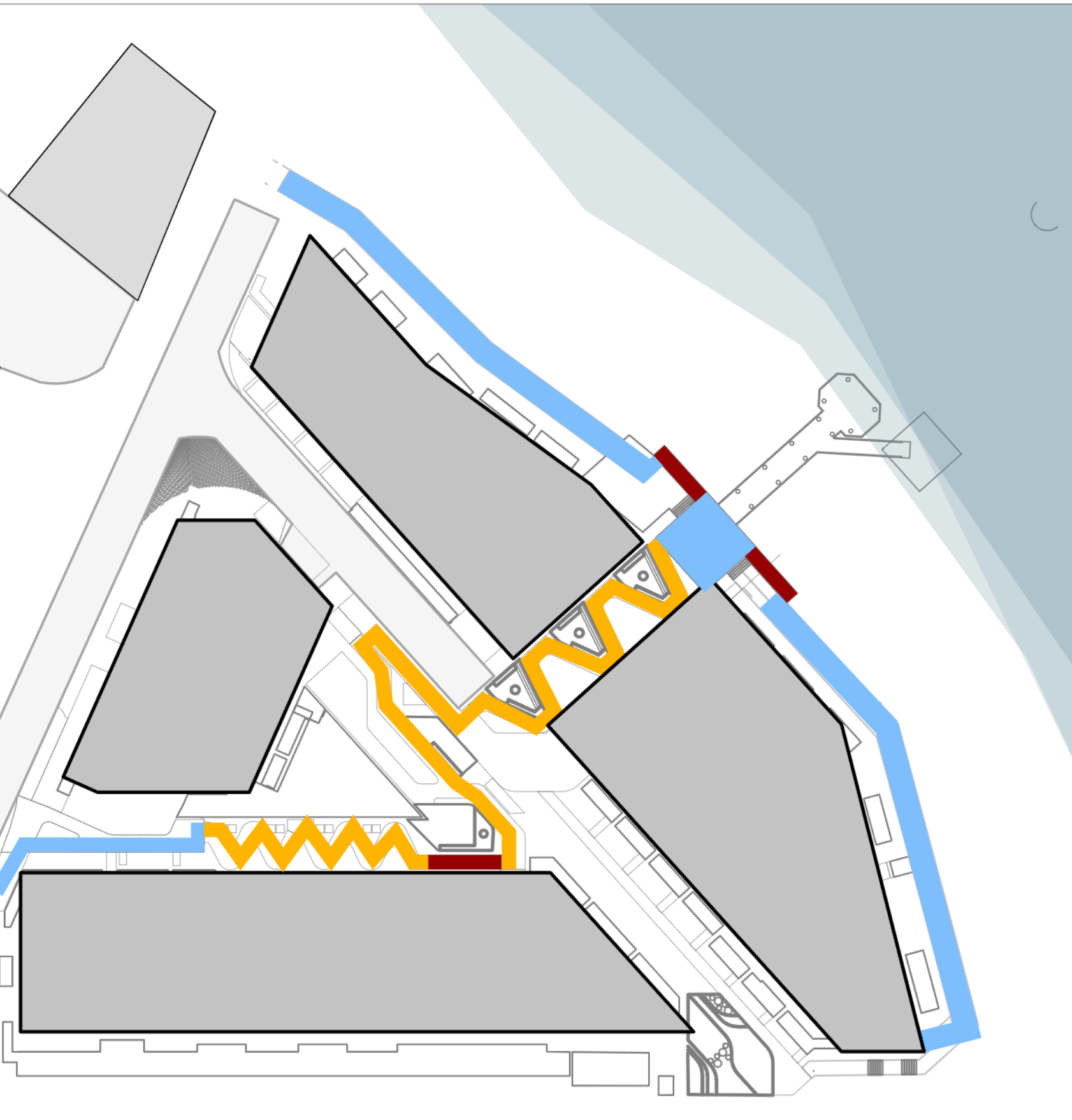
SITE CIRCULATION

- VEHICULAR
- PEDESTRIAN
- BLDG ENTRY



SITE PROGRAM

- AMENITY NODE
- PUBLIC NODE
- RETAIL NODE
- WATERFRONT NODE



ACCESSIBLE ROUTE

- 5% - 8.3% WALKWAY
- 5% WALKWAY
- < 5% WALKWAY



WAYFINDING

- ACCESSIBLE WALKWAY
- SIGNAGE
- ILLUMINATION

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REVISIONS

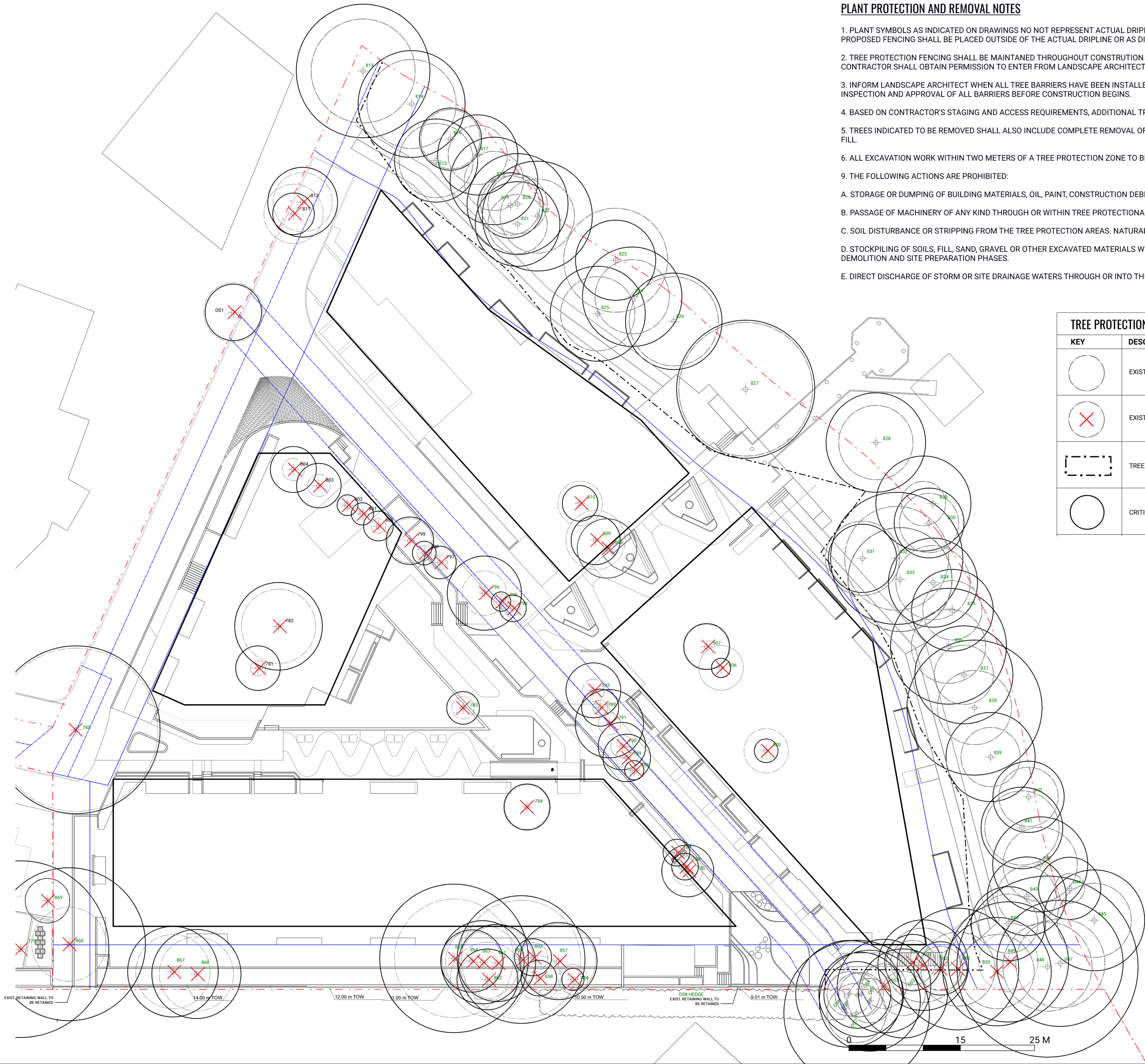
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DIAGRAMS





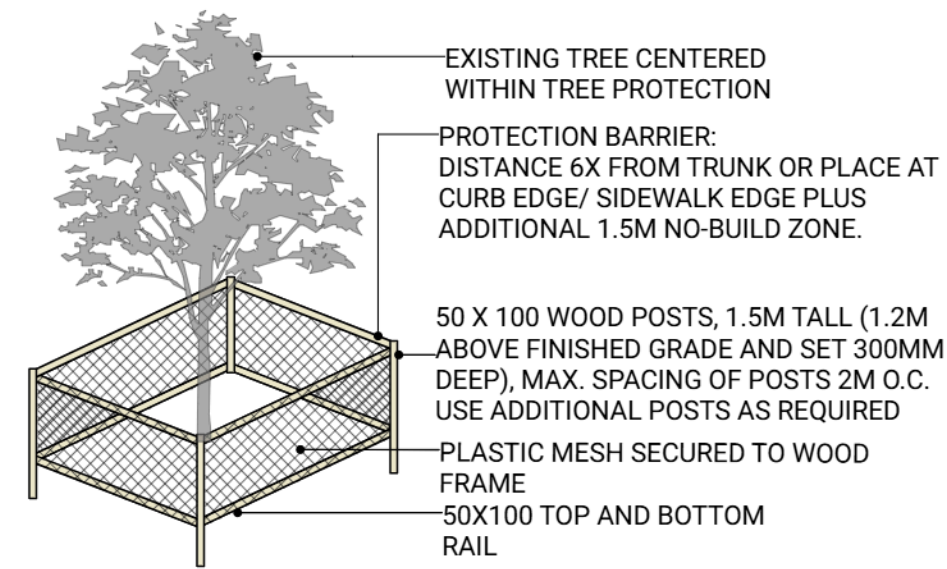


PLANT PROTECTION AND REMOVAL NOTES

- 1. PLANT SYMBOLS AS INDICATED ON DRAWINGS NO NOT REPRESENT ACTUAL DRIPLINES. CONTRACTOR SHALL VERIFY IN FIELD PRIOR TO CONSRUCTION. PROPOSED FENCING SHALL BE PLACED OUTSIDE OF THE ACTUAL DRIPLINE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- 2. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL OBTAIN PERMISSION TO ENTER FROM LANDSCAPE ARCHITECT PRIOR TO CONDUCTING WORK WITHIN THE PLANT PROTECTION ZONES.
- 3. INFORM LANDSCAPE ARCHITECT WHEN ALL TREE BARRIERS HAVE BEEN INSTALLED AND PRIOR TO CONSTRUCTION. ARBORIST TO PROVIDE WRITTEN INSPECTION AND APPROVAL OF ALL BARRIERS BEFORE CONSTRUCTION BEGINS.
- 4. BASED ON CONTRACTOR'S STAGING AND ACCESS REQUIREMENTS, ADDITIONAL TREE PROTECTION FENCING MAY BE REQUIRED.
- 5. TREES INDICATED TO BE REMOVED SHALL ALSO INCLUDE COMPLETE REMOVAL OF STUMP AND ROOTS AND FILLING IN DEPRESSION WITH SUITABLE SOIL FILL.
- 6. ALL EXCAVATION WORK WITHIN TWO METERS OF A TREE PROTECTION ZONE TO BE CONDUCTED UNDER ARBORIST SUPERVISION.
- 9. THE FOLLOWING ACTIONS ARE PROHIBITED:
  - A. STORAGE OR DUMPING OF BUILDING MATERIALS, OIL, PAINT, CONSTRUCTION DEBRIS, BUILDINGS OR EQUIPMENT WITHIN THE TREE PROTECTION AREAS.
  - B. PASSAGE OF MACHINERY OF ANY KIND THROUGH OR WITHIN TREE PROTECTIONAREAS AT ANY TIME.
  - C. SOIL DISTURBANCE OR STRIPPING FROM THE TREE PROTECTION AREAS. NATURAL GRADE MUST BE MAINTAINED.
  - D. STOCKPILING OF SOILS, FILL, SAND, GRAVEL OR OTHER EXCAVATED MATERIALS WITHIN THE TREE PROTECTION AREAS AT ANY TIME, INCLUDING THE DEMOLITION AND SITE PREPARATION PHASES.
  - E. DIRECT DISCHARGE OF STORM OR SITE DRAINAGE WATERS THROUGH OR INTO THE TREE PROTECTION AREAS.

TREE PROTECTION LEGEND	
KEY	DESCRIPTION
	EXISTING TREE TO BE RETAINED AND PROTECTED
	EXISTING TREE TO BE REMOVED
	TREE PROTECTION FENCE
	CRITICAL ROOT ZONE

TREE PROTECTION DETAIL



NOTE:  
ANCHORED MODULAR CONSTRUCTION FENCING IS AN ACCEPTABLE ALTERNATE TO TIMBER-MESH FENCE TREE PROTECTION DETAIL

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Reviewed: OM

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TREE MANAGEMENT PLAN





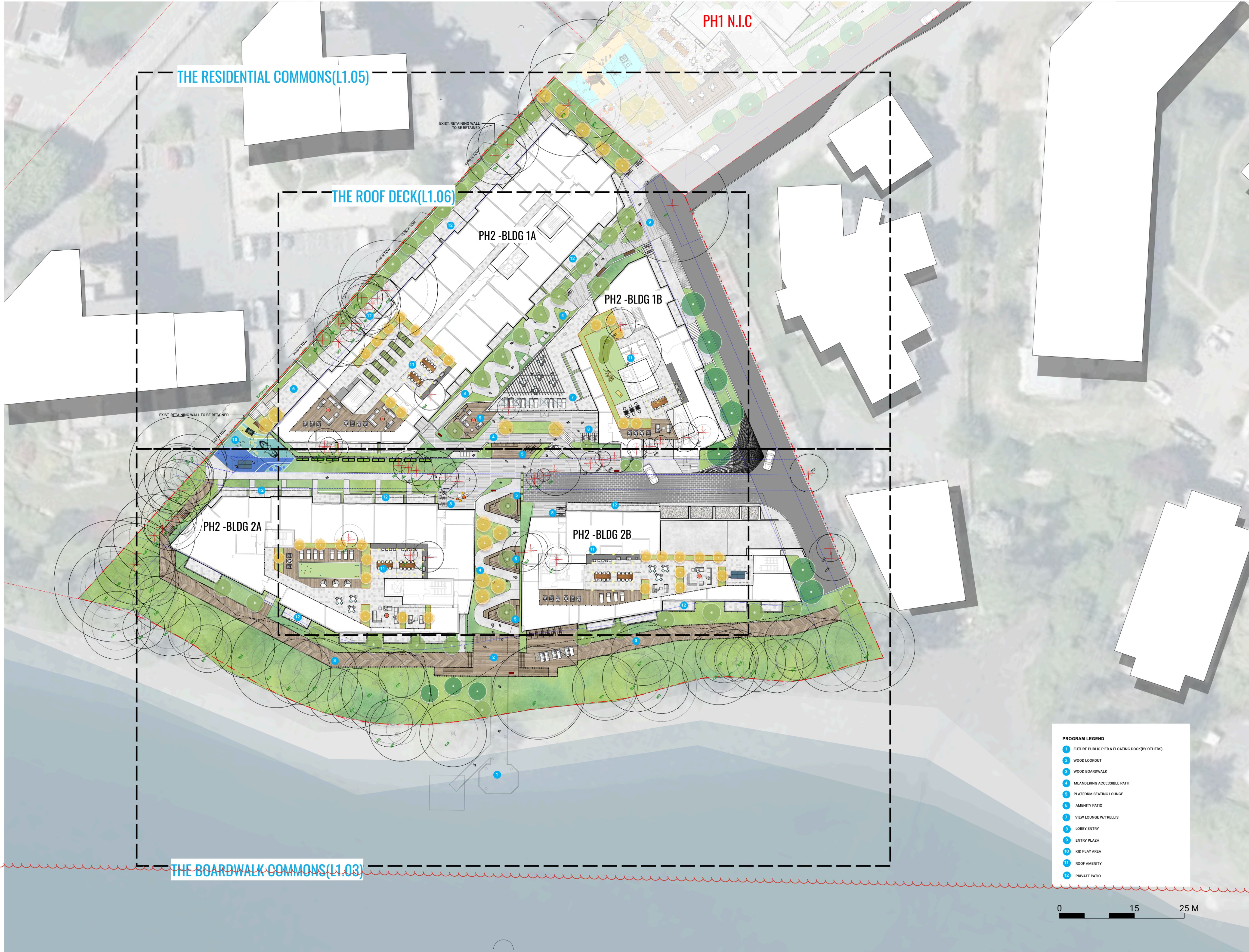


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## INTRACORP GORGE PH2

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Drawn:	YL
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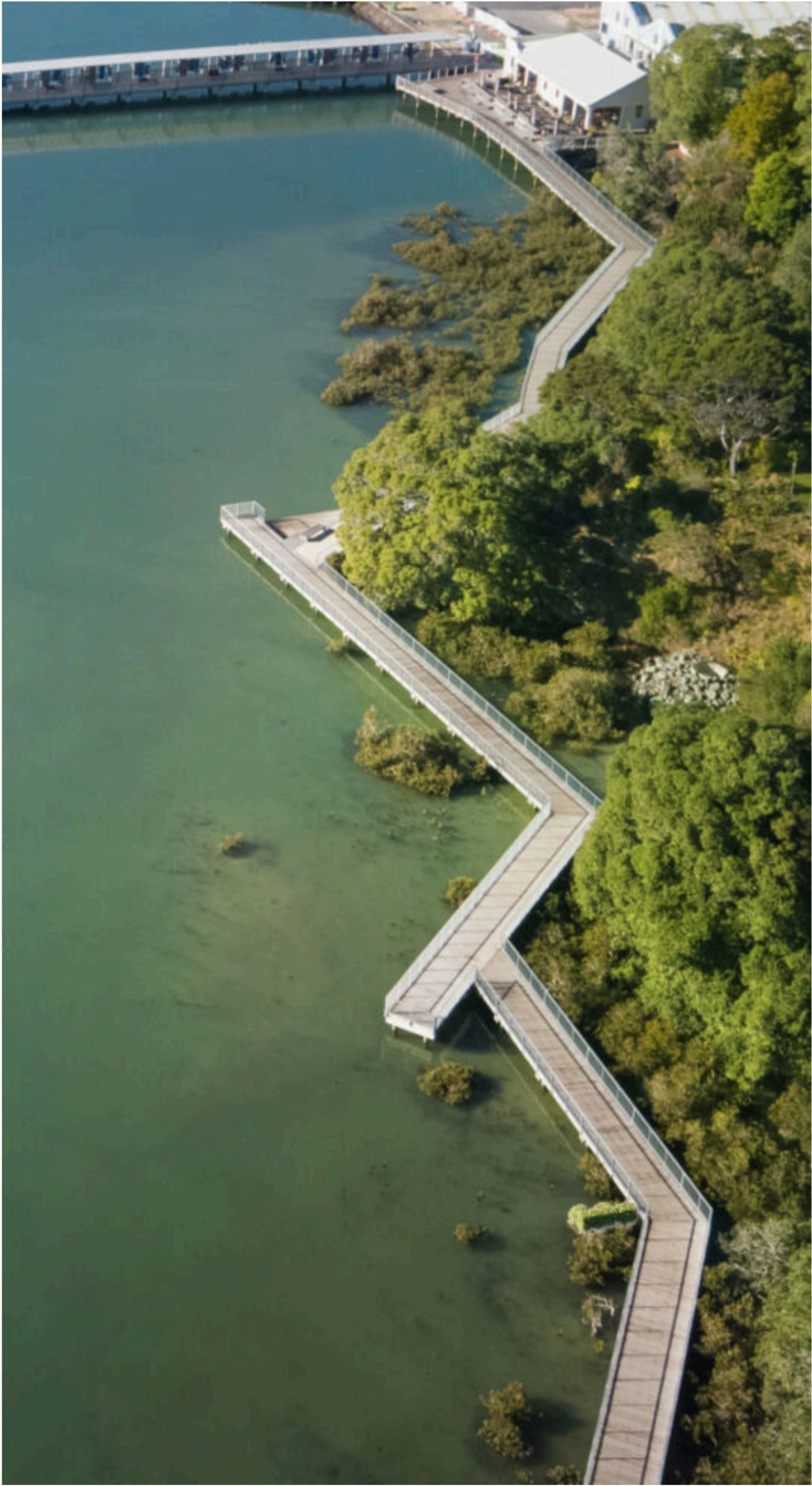
## OVERALL SITE PLAN





THE BOARDWALK COMMONS

Offers the surrounding community access to the shoreline for recreational, social and wellness use, and also an embrace of coastal living



A PLACE TO GATHER

The boardwalk will be a destination for both residents and the community as a whole, offering scenic views and opportunities for an active lifestyle. It will serve as a gathering spot for individuals, families and friends to come together and connect.

AN ACCESSIBLE WATERFRONT

The boardwalk is connected to the community through an adjacent feature curvi-linear walkway, providing a direct accessible pathway to the waterfront. The main boardwalk platform will be included in the development, allowing everyone to enjoy the waterfront views.

PRESERVATION OF NATURAL ELEMENTS

Restoring shoreline habitat is a key aspect of enhancing the overall experience, with a strong emphasis on preserving existing trees. This prioritization not only enriches the landscape but also helps to raise public environmental awareness. Along with the maintenance of natural elements along the gorge, the boardwalk will contribute to fostering a deeper appreciation for the ecosystem, encouraging community members to engage with and protect their local environment.

NATURAL MATERIALS

The elevated boardwalk will be installed on a minimally invasive foundation to limit impacts to existing vegetation and will feature herringbone-patterned wood decking, matching with both natural landscape and light wood elements on architectural facade. The combination of thin metal railings and natural look of boardwalk will blend well into the coastal forest setting.



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THE BOARDWALK COMMONS PRECEDENTS



THE BOARDWALK COMMONS

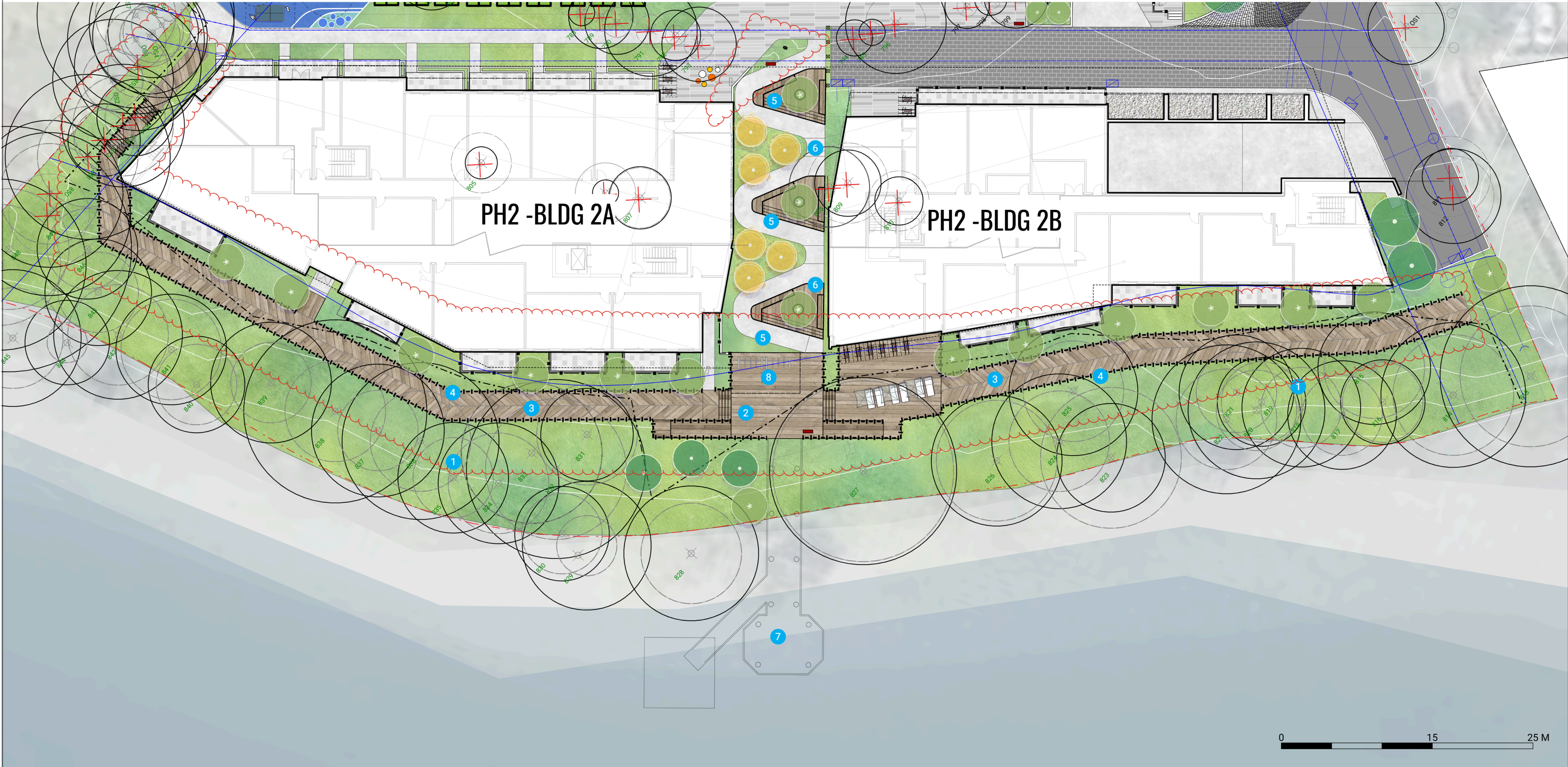
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PROGRAM LEGEND

- 1 RETAINED MATURE TREES
- 2 WOOD LOOKOUT
- 3 WOOD BOARDWALK
- 4 METAL RAIL
- 5 PLATFORM SEATING LOUNGE
- 6 MEANDERING ACCESSIBLE PATH
- 7 FUTURE PUBLIC PIER & FLOATING DOCK(BY OTHERS)
- 8 FUTURE KAYAK STORAGE/RACK TBD

HARDSCAPE LEGEND		
KEY	DESCRIPTION	
	CIP CONCRETE COLOUR: NATURAL	1-2 15.00
	PATIO SLAB PAVERS COLOUR: CHARCOAL	5 15.00
	CONCRETE UNIT PAVERS COLOUR: NATURAL/BONY/DESERT	5 15.00
	WOOD BOARDWALK HERRINGBONE PATTERN	8 15.00
	RUBBER PLAY SURFACE	3 15.00
	VEHICULAR UNIT PAVERS COLOUR: CHARCOAL	7 15.00
	CIP CONCRETE WALL	
	PRECAST CONCRETE BLOCK WALL	
SOFTSCAPE LEGEND		
KEY	DESCRIPTION	
	PLANTING	5 15.03

FURNISHING LEGEND		
KEY	DESCRIPTION	
	BENCH	2 15.01
	WOOD PLATFORM WITH SEATING	2 15.00
	WAYFINDING SIGNAGE	
	BIKE RACK	1 15.01
	PATIO FURNITURE TBD BY OWNER	
	OUTDOOR TABLE AND CHAIRS	
	TABLE TENNIS	
	REMOVABLE PLAZA SEATING	3 15.01
	GUARDRAIL PER ARCH	
	LEAN RAIL ALONG BOARDWALK	6 15.00



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ENLARGEMENT PLAN  
THE BOARDWALK COMMONS





THE RESIDENTIAL COMMONS

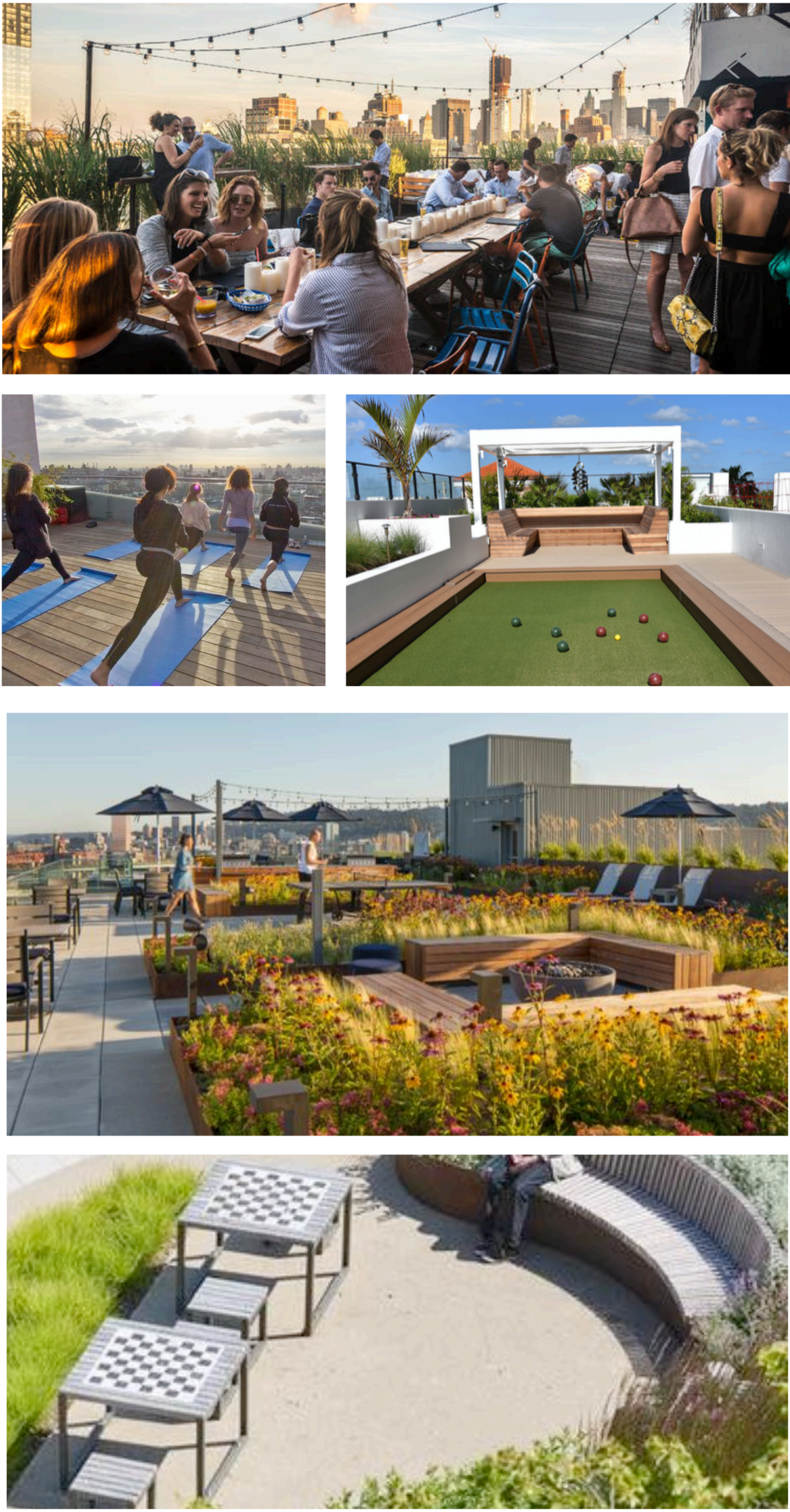
Provides opportunities for large or small gatherings, and includes nature play, outdoor dining, flexible green space and tree canopy. The residential commons maintains a direct link to the public boardwalk and promotes indoor to outdoor connectivity.



THE ROOF DECK

Provides an outdoor living environment for the purpose of bringing residents together as a community. It features the following uses:

- an outdoor dining area and kitchen with catenary lighting;
- a multi-purpose deck that can serve as a lounge, yoga space and movie screening space;
- a common green with bocce court, putting green, cornhole and sun lounge;
- semi-private fire lounges with gas firebowls.



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AMENITY PRECEDENTS



THE RESIDENTIAL COMMONS

Provides opportunities for large or small gatherings, and includes nature play, outdoor dining, flexible green space and tree canopy. The residential commons maintains a direct link to the public boardwalk and promotes indoor to outdoor connectivity.

PROGRAM LEGEND

- 1 MEANDERING ACCESSIBLE PATH
- 2 PLATFORM SEATING LOUNGE
- 3 VIEW LOUNGE W/TRELLIS
- 4 LOBBY ENTRY
- 5 ENTRY PLAZA
- 6 KID PLAY AREA
- 7 AMENITY PATIO
- 8 INFILTRATION RAIN GARDEN

HARDSCAPE LEGEND		
KEY	DESCRIPTION	
	CIP CONCRETE COLOUR: NATURAL	1-2 L5.00
	PATIO SLAB PAVERS COLOUR: CHARCOAL	5 L5.00
	CONCRETE UNIT PAVERS COLOUR: NATURALBONY/DESERT	5 L5.00
	WOOD BOARDWALK HERRINGBONE PATTERN	8 L5.00
	RUBBER PLAY SURFACE	3 L5.00
	VEHICULAR UNIT PAVERS COLOUR: CHARCOAL	7 L5.00
	CIP CONCRETE WALL	
	PRECAST CONCRETE BLOCK WALL	

SOFTSCAPE LEGEND		
KEY	DESCRIPTION	
	PLANTING	5 L5.03

FURNISHING LEGEND		
KEY	DESCRIPTION	
	BENCH	2 L5.01
	WOOD PLATFORM WITH SEATING	2 L5.00
	WAYFINDING SIGNAGE	
	BIKE RACK	1 L5.01
	PATIO FURNITURE TBD BY OWNER	
	OUTDOOR TABLE AND CHAIRS	
	TABLE TENNIS	
	REMOVABLE PLAZA SEATING	3 L5.01
	GUARDRAIL PER ARCH	
	LEAN RAIL ALONG BOARDWALK	6 L5.00



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ENLARGEMENT PLAN  
THE RESIDENTIAL COMMONS





THE ROOF DECK

Provides an outdoor living environment for the purpose of bringing residents together as a community. It features the following uses:

- an outdoor dining area and kitchen with catenary lighting;
- a multi-purpose deck that can serve as a lounge, yoga space and movie screening space;
- a common green with bocce court, putting green, cornhole and sun lounge;
- semi-private fire lounges with gas firebowls..

PROGRAM LEGEND

- 1

OUTDOOR KITCHEN W/CATENARY LIGHTING
- 2

OUTDOOR BAR & DINING
- 3

FIRE LOUNGE
- 4

MULTI-PURPOSE DECK
- 5

TABLE TENIS
- 6

BOCCE BALL

7

GAME ZONE(JENGA/CORNHOLE)

8

CHESS TABLE

9

AGRICULTURE GARDEN W/ STORAGE SHED

10

OUTDOOR WORKSTATION

11

MINI GOLF

HARDSCAPE LEGEND		
KEY	DESCRIPTION	
	ROOF SLAB PAVERS COLOUR: NORTHERN SHADOW	<div>6</div> <div>L5.00</div>
	WOOD DECK	<div>6</div> <div>L5.00</div>
	ARTIFICIAL TURF	<div>4</div> <div>L5.00</div>

SOFTSCAPE LEGEND		
KEY	DESCRIPTION	
	PLANTING	<div>5</div> <div>L5.03</div>

FURNISHING LEGEND		
KEY	DESCRIPTION	
	BENCH	<div>2</div> <div>L5.01</div>
	WOOD PLATFORM WITH SEATING	<div>2</div> <div>L5.00</div>
	WAYFINDING SIGNAGE	
	BIKE RACK	<div>1</div> <div>L5.01</div>
	PATIO FURNITURE TBD BY OWNER	
	OUTDOOR TABLE AND CHAIRS	
	TABLE TENNIS	
	REMOVABLE PLAZA SEATING	<div>3</div> <div>L5.01</div>
	ROOF PLANTER	<div>6</div> <div>L5.03</div>
	OUTDOOR DINING TABLE	<div>5</div> <div>L5.01</div>
	OUTDOOR BAR TABLE & STOOLS	<div>4</div> <div>L5.01</div>
	CHESS TABLE	<div>1</div> <div>L5.02</div>
	COMMUNITY HERB GRADEN	<div>2</div> <div>L5.02</div>
	GUARDRAIL PER ARCH	
	OUTDOOR KITCHEN	



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ENLARGEMENT PLAN  
THE ROOF DECK







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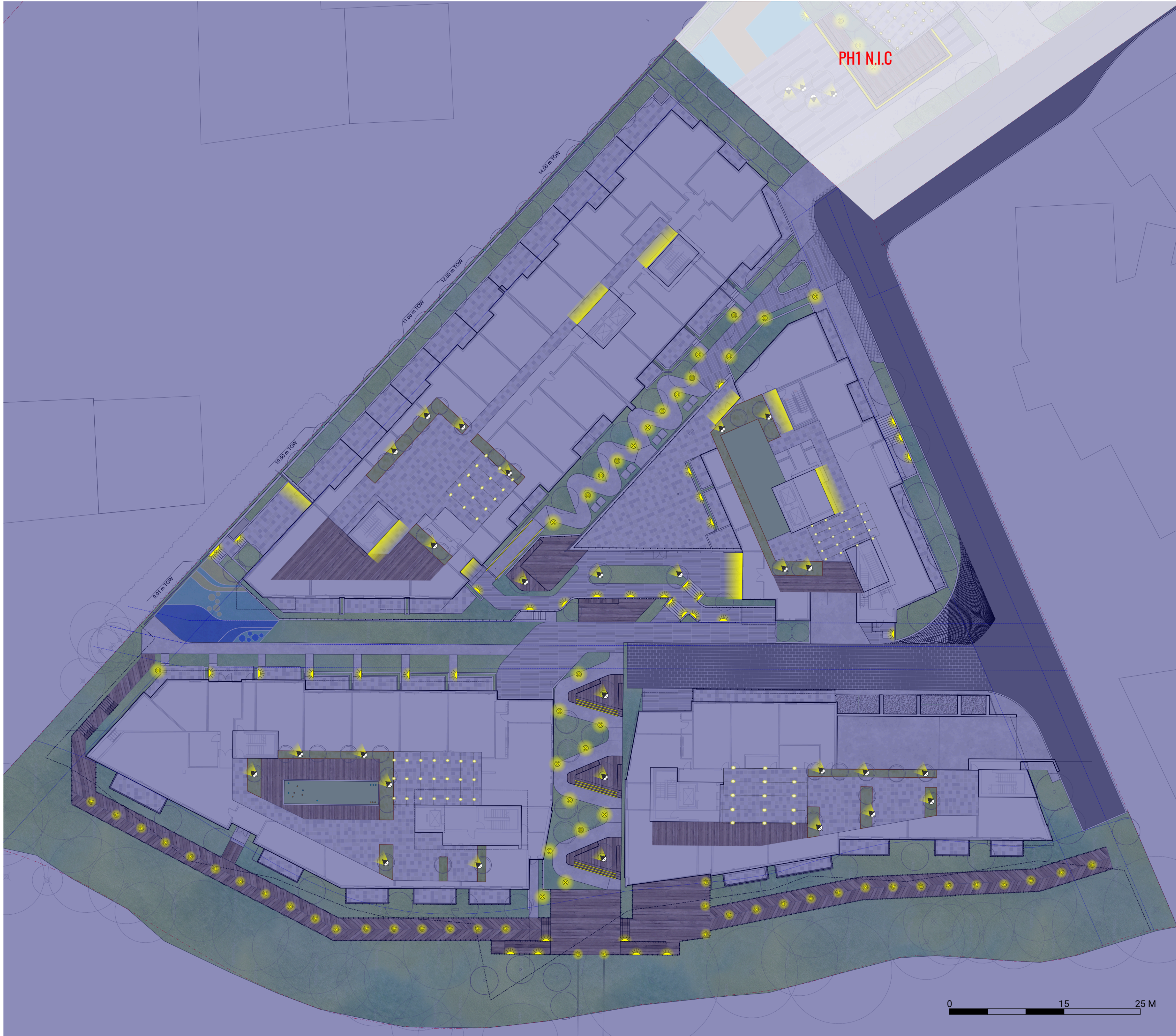
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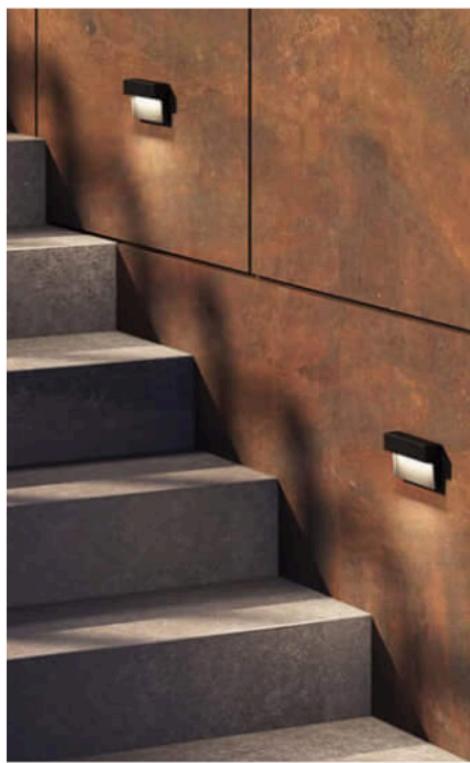
### LIGHTING PLAN



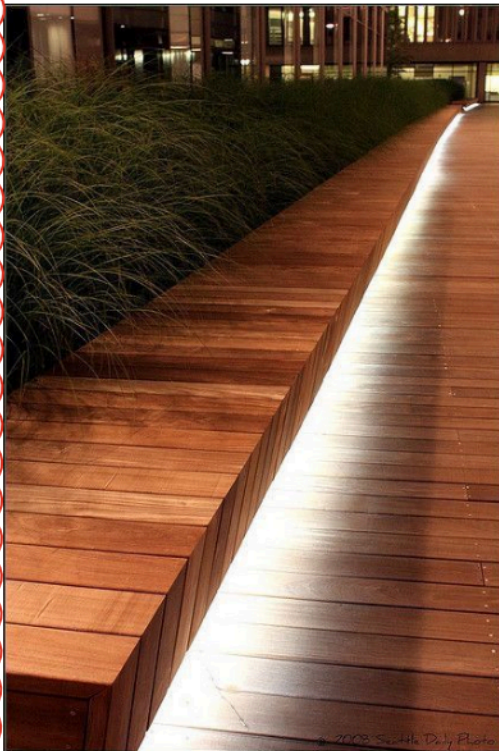
L2.00



BOLLARD



WALL/STEP LIGHT



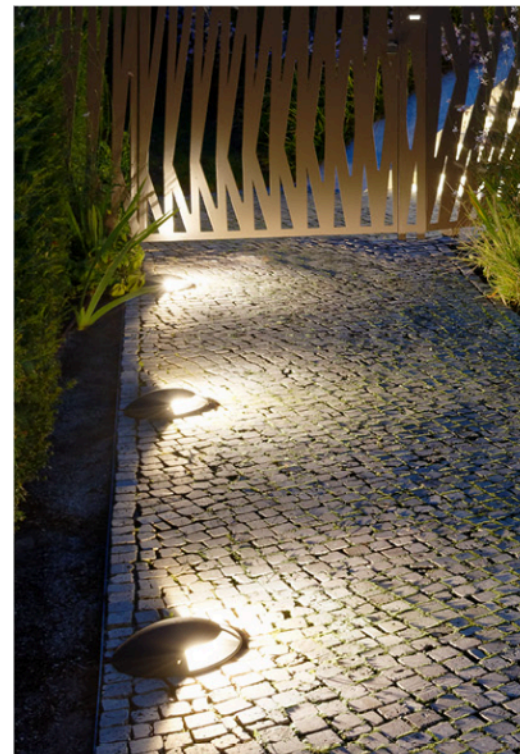
LED STRIP LIGHT



UP LIGHT



CATENARY LIGHT



INGROUND LIGHT

LIGHTING LEGEND	
KEY	DESCRIPTION
	WALL / STEP LIGHT
	LIGHT BOLLARD
	UP LIGHT
	CATENARY LIGHT
	INGROUND LIGHT
	LED STRIP LIGHT
	ARCH. LIGHT PER ARCH.

NOTE:  
LIGHTS AS PER ELECTRICAL. SHOWN FOR REFERENCE ONLY.

#### SITE LIGHTING NOTES

1. LIGHTING SYMBOLS ON PLANS ARE DIAGRAMMATIC. REFER TO ELECTRICAL DRAWINGS, DETAILS AND SPECIFICATIONS FOR ACTUAL DIMENSIONS, PRODUCT INFORMATION, AND WIRING.

2. LAYOUT DIMENSIONS ARE FOR GENERAL REFERENCE ONLY. STAKE LOCATION OF LIGHTS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

3. COORDINATE WITH EXISTING AND PROPOSED UTILITIES. ALL FOOTINGS TO BE MINIMUM 1.0m AWAY FROM UTILITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOR DIRECTION ON FIXTURE PLACEMENT.





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## GRADING PLAN



## PLANT LIST

ID	QTY	BOTANICAL NAME	COMMON NAME	SCHEDULED SIZE	SPACING
DECIDUOUS TREES					
ACi	8	Acer circinatum	Vine Maple	#15 pot	AS SHOWN
APs	3	Acer palmatum 'Sango Kaku'	Coral Bark Maple	3m Ht., multistem	AS SHOWN
BNj	7	Betula nigra 'Dura Heat'	Dura Heat Birch	6cm, cal.	AS SHOWN
CK	10	Cornus kousa	Kousa Dogwood	5cm, cal.	AS SHOWN
FS	5	Fagus sylvatica	European Beach	6cm cal.	AS SHOWN
KP	2	Koelreuteria paniculata	Goldenraintree	5cm, cal.	AS SHOWN
MY	5	Magnolia x brooklynensis 'Yellow Bird'	Yellowbird Magnolia	6cm, cal.	AS SHOWN
PA	3	Prunus yedoensis 'Akebono'	Yoshino Cherry	7cm, cal.	AS SHOWN
Qfr	3	Quercus frainetto	Hungarian Oak	6cm Cal.	AS SHOWN
SP	19	Stewartia pseudocamellia	Japanese Stewartia	5cm, cal.	AS SHOWN
SJ	30	Styrax japonicus	Snowbell Tree	6cm, cal.	AS SHOWN
CONIFEROUS TREES					
PC	9	Pinus contorta ssp. contorta	Shore Pine	3m Ht.	AS SHOWN
AF	4	Abies fraseri	Fraser Fir	3-4m Ht.	AS SHOWN
SHRUBS					
Cos	72	Cornus stolonifera	Red-Osier Dogwood	#3 pot	900 o.c.
Hpl	32	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	#5 pot	900 o.c.
Lop	84	Lonicera pileata	Privet Honeysuckle	#2 pot	600 o.c.
Pll	121	Prunus lusitanica 'Lolita'	Portuguese Laurel	#3 pot	1200 o.c.
Rhm	21	Rhododendron macrophyllum	Pacific rhododednron	#3 pot	1200 o.c.
Rpw	59	Rhododendron yakushimanum 'Percy Wiseman'	Percy Wisemen Rhododendron	#5 pot	900 o.c.
Ris	53	Ribes sanguineum	Red Flowering Currant	#3 pot	900 o.c.
Ron	35	Rosa nutkana	Nootka Rose	#3 pot	900 o.c.
Spn	32	Salix purpurea 'Nana'	Dwarf Arctic Willow	#5 pot	900 o.c.
Shh	79	Sarcococca hookeriana var. humilis	Sweetbox	#2 pot	600 o.c.
Spb	75	Spiraea x bumalda 'Goldflame'	Goldflame Spirea	#2 pot	600 o.c.
Sya	28	Symphoricarpos albus	Common Snowberry	#5 pot	1200 o.c.
Tmc	222	Taxus x media 'Hicksii'	Hick's Yew	1.5m Ht.	600 o.c.
Vao	132	Vaccinium ovatum	Evergreen Huckleberry	#3 pot	900 o.c.
PERENNIALS					
anm	67	Anaphalis margaritacea	Pearly Everlasting	#1 pot	450 o.c.
asl	73	Aster laevis	Smooth Aster	#1 pot	450 o.c.
epl	80	Echinacea pallida	Pale Purple Coneflower	#1 pot	450 o.c.
hoj	26	Hosta 'June'	Plantain Lily	#1 pot	750 o.c.
hss	26	Hosta 'Sum & Substance'	Plantain Lily	#2 pot	900 o.c.
lhb	142	Lavandula angustifolia 'Hidcote Blue'	Lavender	#2 pot	450 o.c.
LIM	247	Liriope Muscari	Lilyturf	#1 pot	300 o.c.
rfg	43	Rudbeckia fulgida 'Goldsturm'	Black-Eyed Susan	#1 pot	600 o.c.
GROUNDCOVERS					
Coc	903	Cornus canadensis	Bunchberry	#1 pot	300 o.c.
Gas	191	Gaultheria shallon	Salal	#1 pot	600 o.c.
Mar	702	Mahonia repens	Creeping Oregon Grape	#1 pot	450 o.c.
pat	399	Pachysandra terminalis	Japanese Spruge	#1 pot	450 o.c.
FERNS					
bis	238	Blechnum spicant	Deer Fern	#1 pot	450 o.c.
pom	89	Polystichum munitum	Sword Fern	#2 pot	800 o.c.
GRASSES					
cad	76	Carex densa	Dense Sedge	plug	300 o.c.
cas	35	Carex stipata	Owlfruite Sedge	plug	300 o.c.
feb	114	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	#2 pot	600 o.c.
kog	128	Koeleria glauca	Blue Hairgrass	10cm pot	300 o.c.
ste	160	Stipa tenuissima	Mexican Feather Grass	#2 pot	450 o.c.

900 mm SOIL DEPTH	1210 SQM
450 mm SOIL DEPTH	520 SQM

## SOIL DEPTH PLAN



- PLANTS SUPPORT POLLINATORS
- NATIVE PLANTS

### PLANTING NOTES

- ALL PLANTING SHALL BE IN ACCORDANCE WITH THE CANADIAN LANDSCAPE STANDARD LATEST EDITION.
- SEE SPECIFICATIONS AND DETAILS FOR PLANTING METHODS, REQUIREMENTS, SOIL TESTING, MATERIALS AND PLAN PROTECTION.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF THE PLANT MATERIAL, ALLOWING FOR ANY AND ALL REQUIRED APPROVALS. PLANT SUBSTITUTIONS NOT CONFIRMED AND APPROVED BY THE LANDSCAPE ARCHITECT WILL BE REJECTED.
- PLANT NAMES MAY BE ABBREVIATED ON DRAWINGS. REFER TO PLANT LIST AND LEGENDS FOR SYMBOLS, ABBREVIATIONS, BOTANICAL AND COMMON NAMES, SIZES, ESTIMATED QUANTITIES AND OTHER REMARKS.
- WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN PLANT LIST ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKEOFFS FOR ALL PLANT MATERIAL AND SIZES SHOWN ON THE DRAWINGS. BRING DESREPARNCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICAITON.
- PRIOR TO INSTALLATION OF PLANT MATERIAL: PLANTS MUST BE PLACED AND LANDSCAPE ARCHITECT CALLED TO SITE TO REVIEW AND APPROVE LAYOUT. CONSULTANT MAY PROVIDE DIRECTIONS FOR LAYOUT MODIFICATIONS UPON REVIEW.
- CONTRACTOR IS RESPONSIBLE TO 'RESTORE' ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED THAT MEETS OF EXCEEDS THE CONDITIONS PRIOR TO DISTURBANCE.
- ALL PLANTING AREAS SHALL BE WATERED WITH AN IN-GROUND AUTOMATIC IRRIGATION SYSTEM.
- TREE PLANTING SETBACKS FROM UTILITIES ARE TO FOLLOW THE REQUIRMENTS OF THE AUTHORITY HAVING JURISDICTION.
- STREET TREES MUST HAVE ONE DOMINANT CENTRAL LEADER OR SINGLE STRAIGHT TRUNK, 6-8 CM DIAMETER CALIPER MEASURED 15 CM ABOVE GROUND, AND A WELL-BALANCED CROWN WITH BRANCHING STARTING AT 1.8 M - 2.5 M ABOVE GROUND. TREES MUST BE PLANTED PER THE CITY OF VICTORIA SUPPLEMENTAL DRAWING SD P4 (TREE PLANTING IN BOULEVARD) THE CANADIAN LANDSCAPE STANDARD.
- REQUIRED PARKS INSPECTIONS FOR STREET TREE PLANTING:
  - INSPECTION OF SOIL AND PLANTING AREA PRIOR TO PLANTING.
  - INSPECTION OF TREE STOCK PRIOR TO PLANTING.
  - INSPECTION OF INSTALLED TREE. TREES MUST BE IN GOOD HEALTH AND CONDITION WITH NO VISIBLE SIGNS OF DISEASE, INSECT PESTS, OR DAMAGE, AND COMPLY WITH THE LATEST VERSION OF THE CANADIAN LANDSCAPE STANDARD.
- REQUIRED PARKS INSPECTIONS FOR SEED AND SOD BOULEVARD:
  - INSPECTION OF EXCAVATED AND SCARIFIED SUBGRADE PRIOR TO BACKFILL.
  - INSPECTION OF INSTALLED, ROLLED AND PREPARED GROWING MEDIA PRIOR TO SODDING.
  - INSPECTION WHEN THE INSTALLED TURFGRASS MEETS THE CONDITIONS FOR TOTAL PERFORMANCE AS REQUIRED IN THE CURRENT EDITION OF THE CANADIAN LANDSCAPE STANDARD.
- A SOIL TEST FOR THE GROWING MEDIA, FOR EACH LANDSCAPE APPLICATION ON CITY PROPERTY MUST BE SUBMITTED TO THE CITY PARKS TREEPERMITS@VICTORIA.CA FOR REVIEW AT LEAST ONE WEEK PRIOR TO SOIL PLACEMENT. GROWING MEDIA MUST MEET THE STANDARDS FOR EACH SPECIFIC LANDSCAPE APPLICATION AS REQUIRED IN THE CURRENT EDITION OF THE CANADIAN LANDSCAPE STANDARD.
- THE VICTORIA SUBDIVISION AND DEVELOPMENT SERVICING BYLAW NO. 12-042 AND THE ASSOCIATED SCHEDULES CAN BE FOUND ON THE CITY OF VICTORIA BYLAWS WEBSITE.



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## INTRACORP GORGE PH2

Scale:	1:350
Drawn:	YL
Reviewed:	OM
Project No.	06-793

## PLANTING PALETTE & SOIL DEPTH





KEYPLAN



SEAL

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REVISIONS

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TREE PLAN



KEYPLAN



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PLANTING PLAN







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## TREE REPLACEMENT PLAN







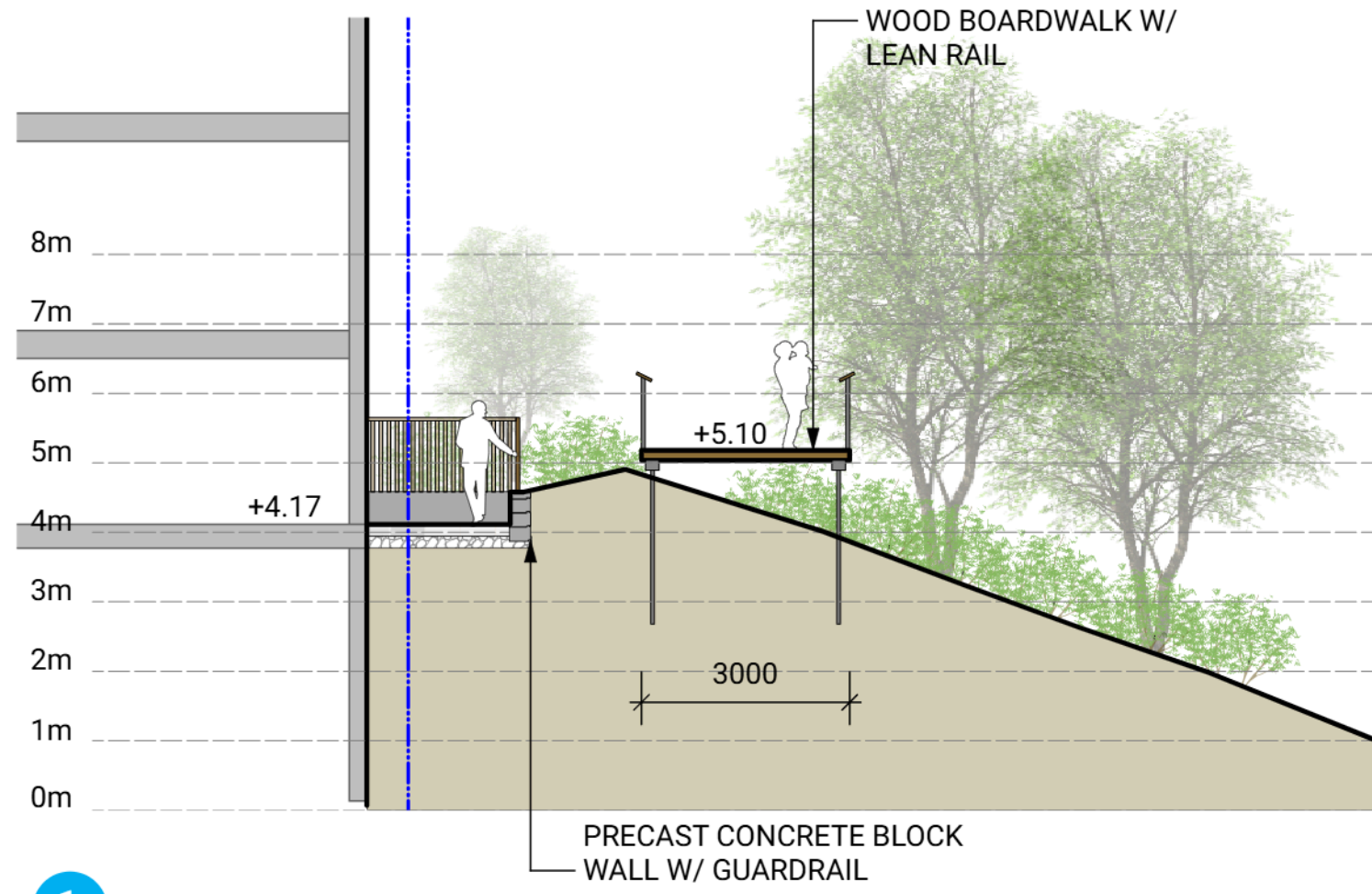
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INTRACORP GORGE PH2

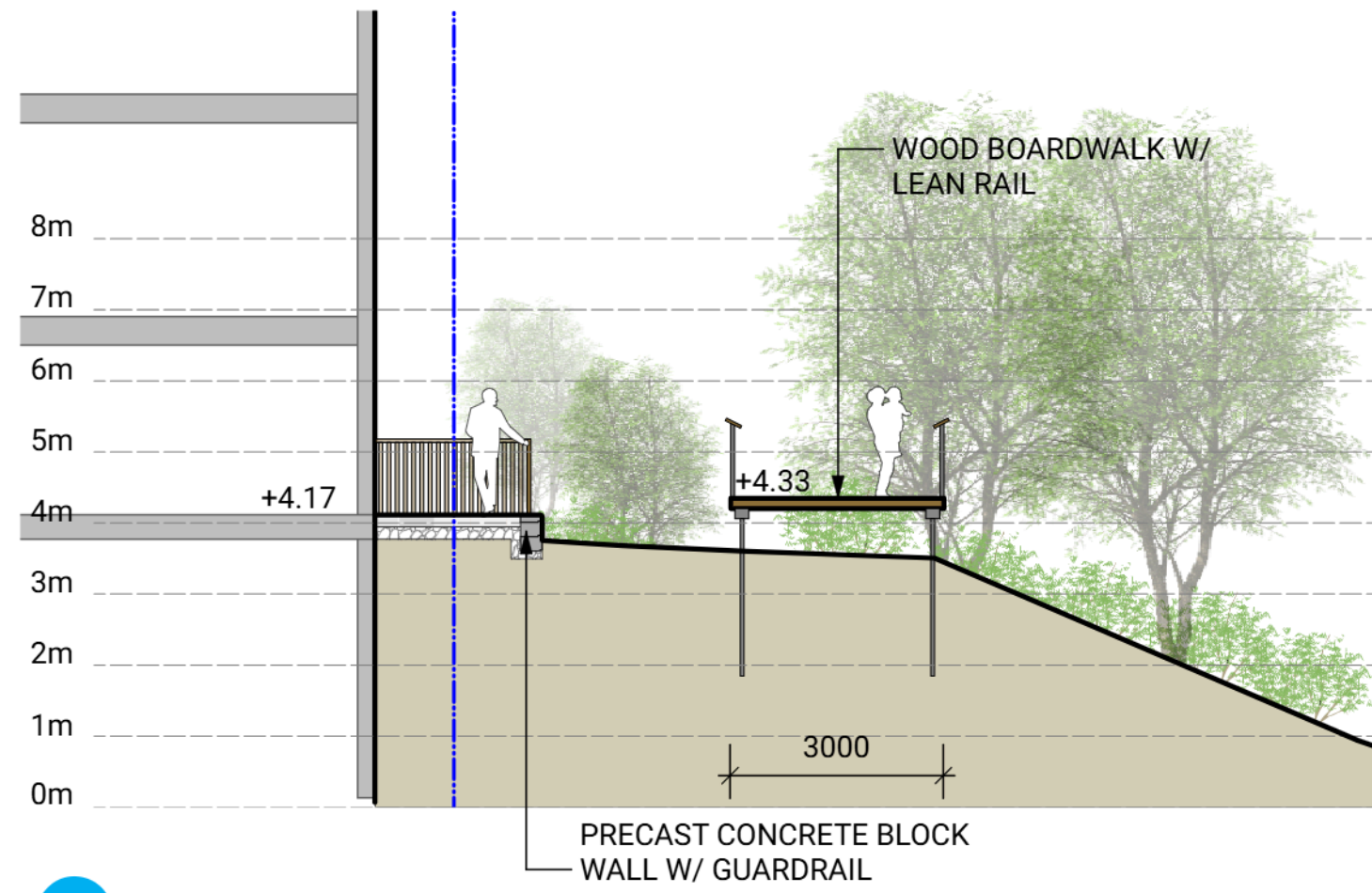
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Reviewed:	OM
Project No.	06-793

SECTIONS & VIEWS  
WATERFRONT

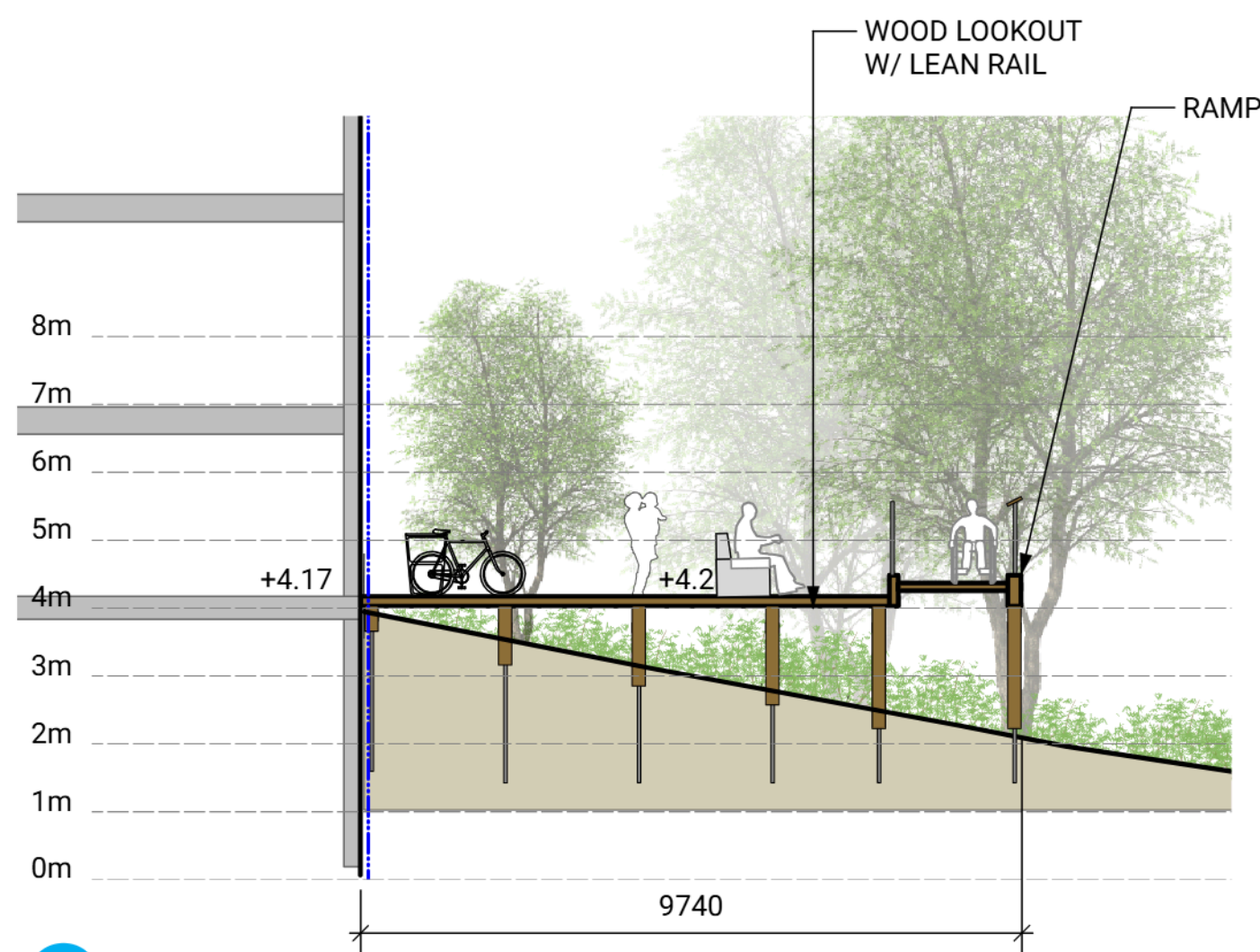
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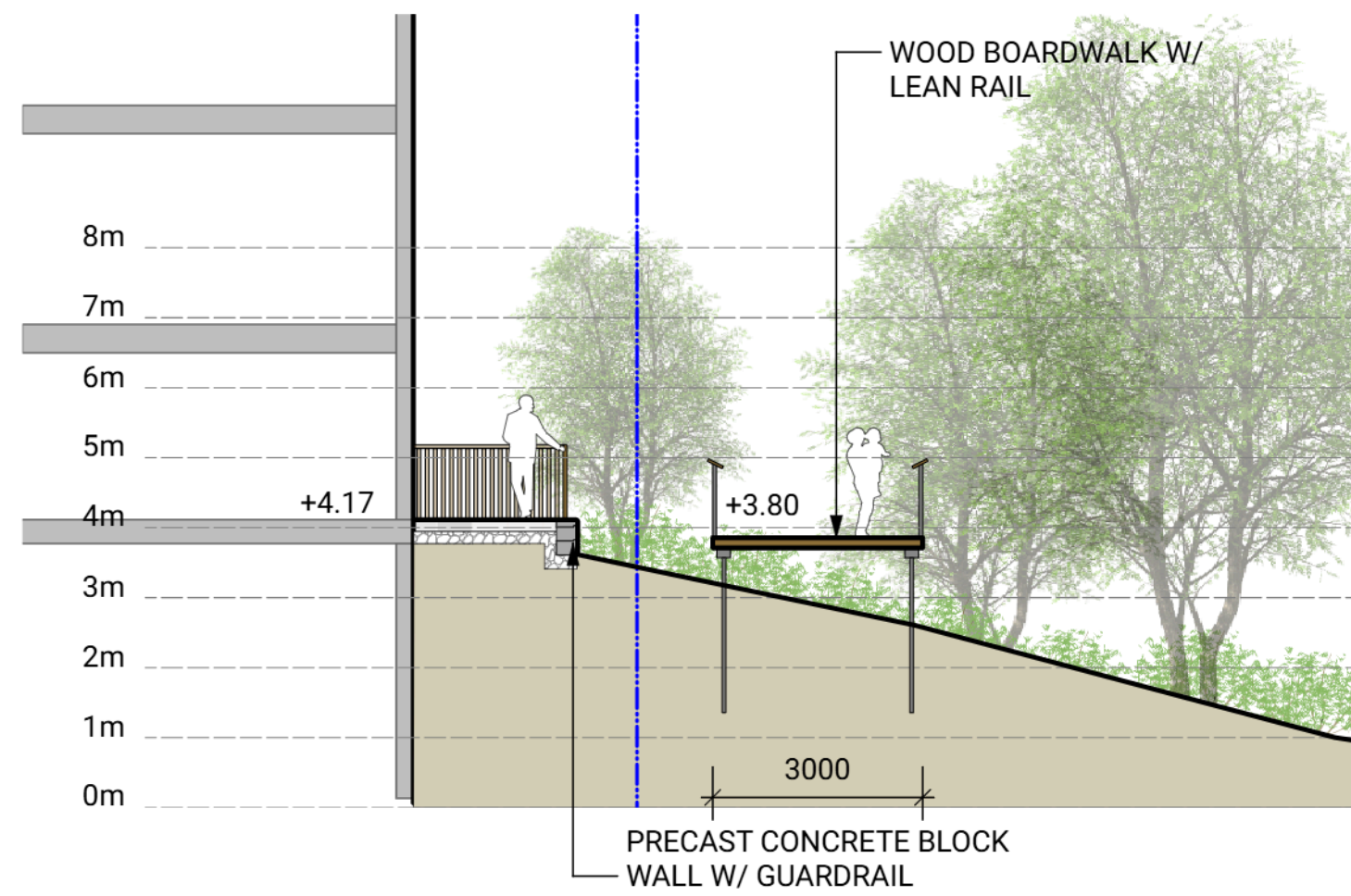
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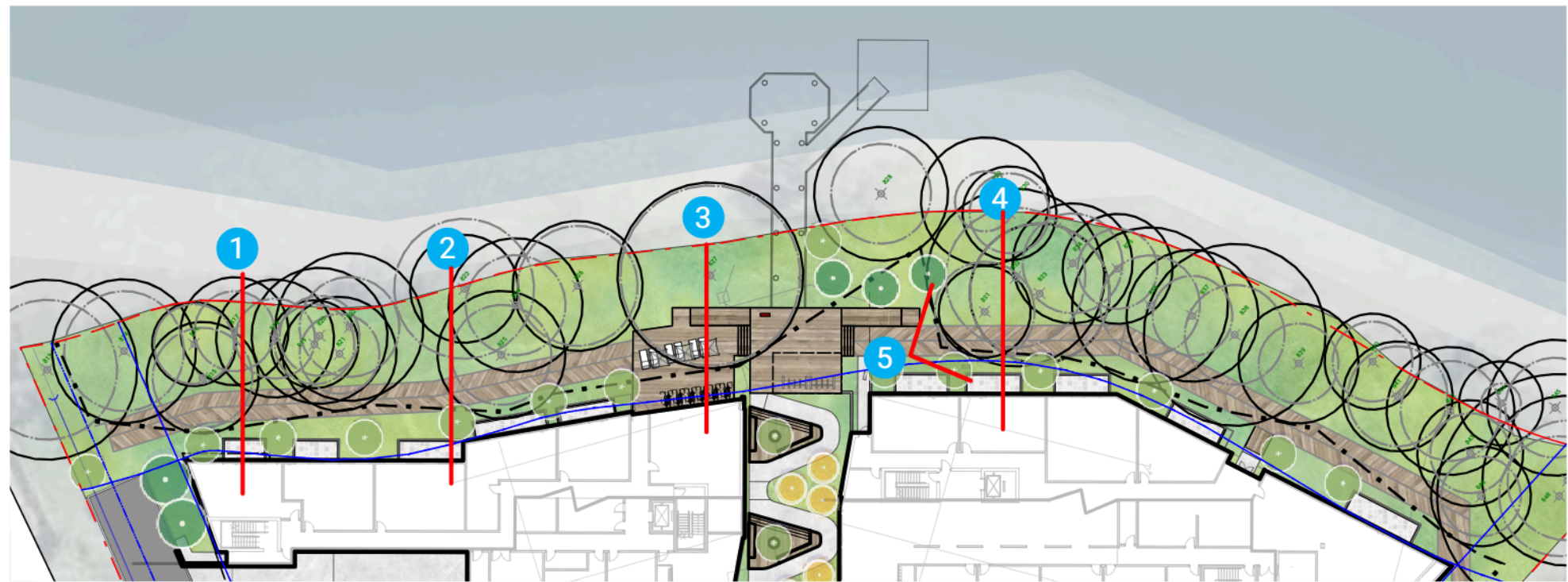
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4

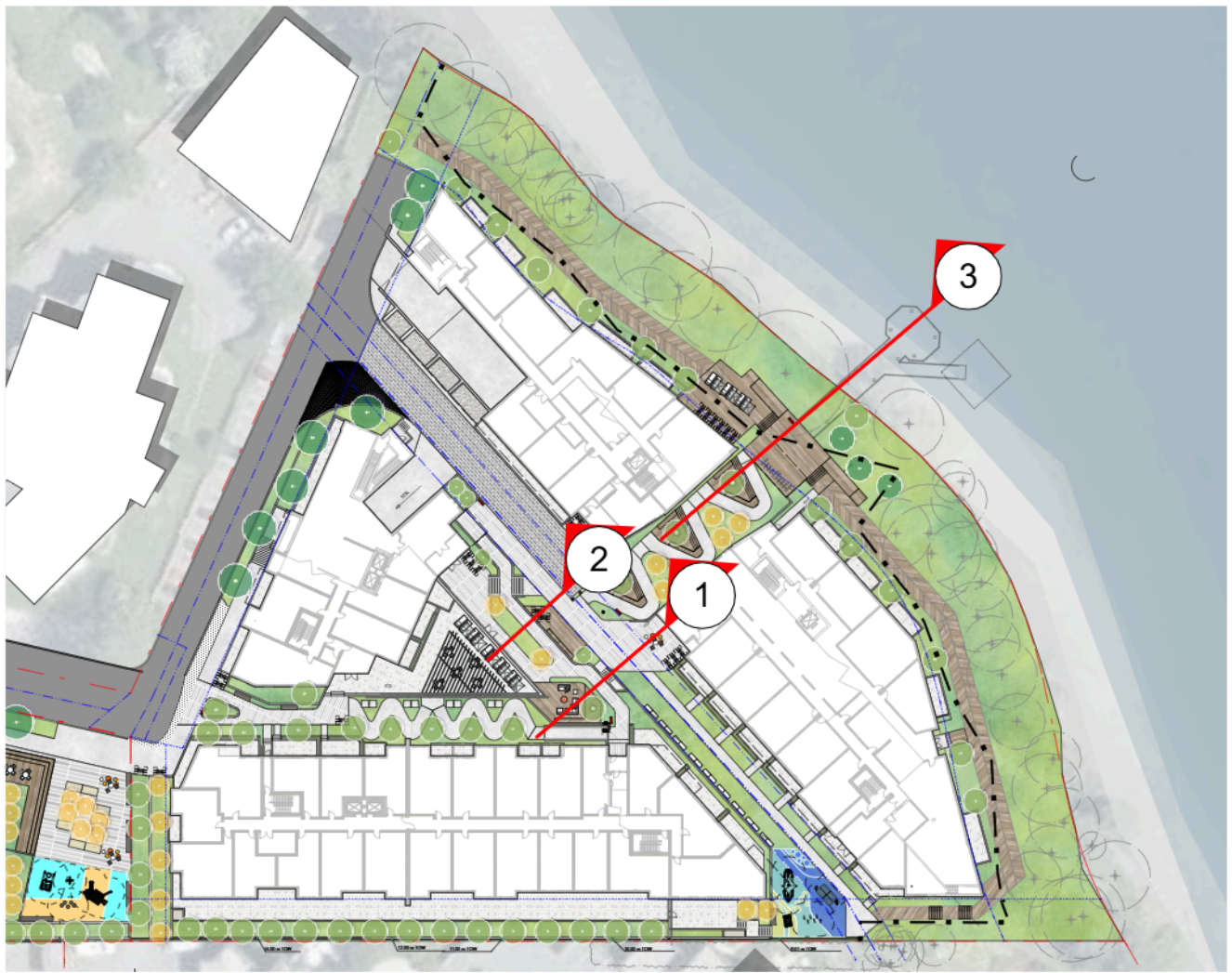
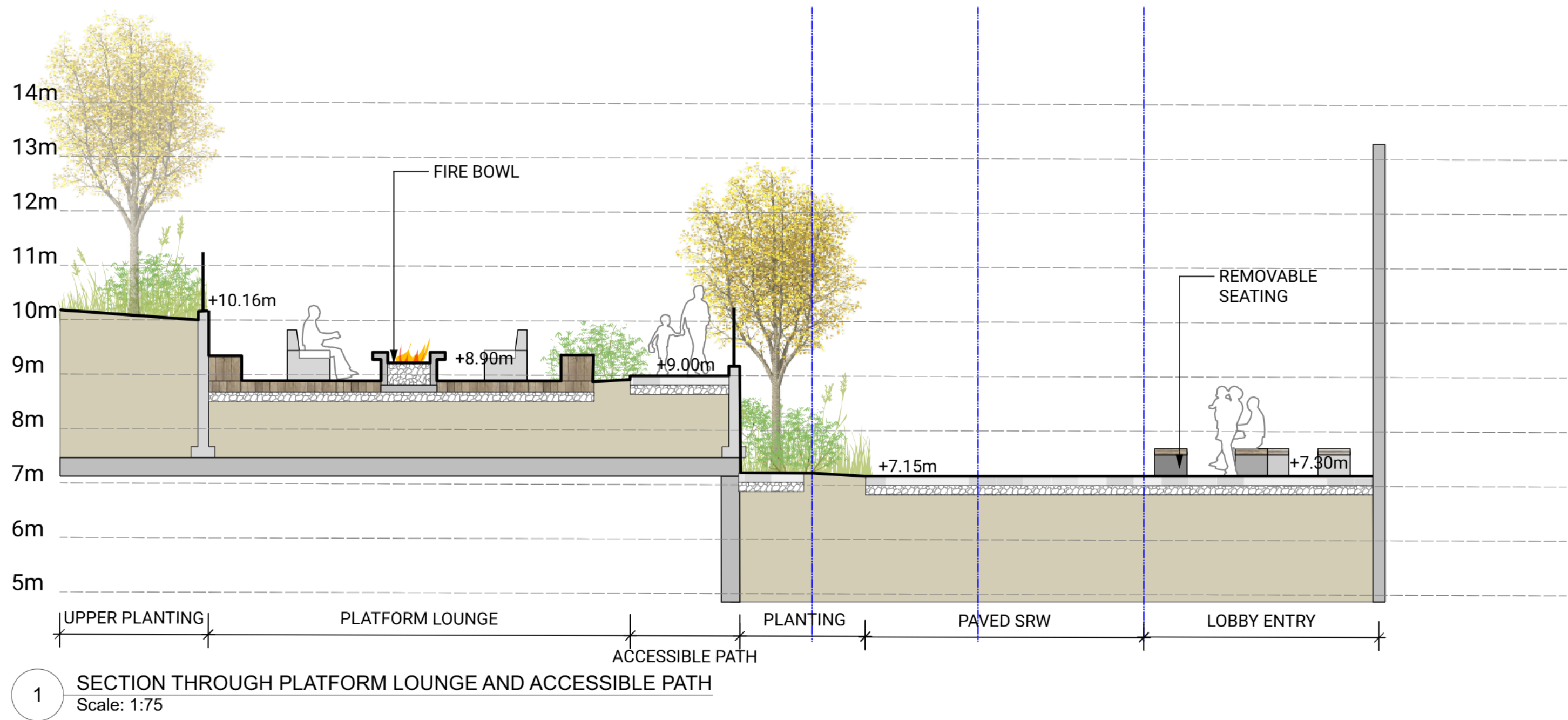


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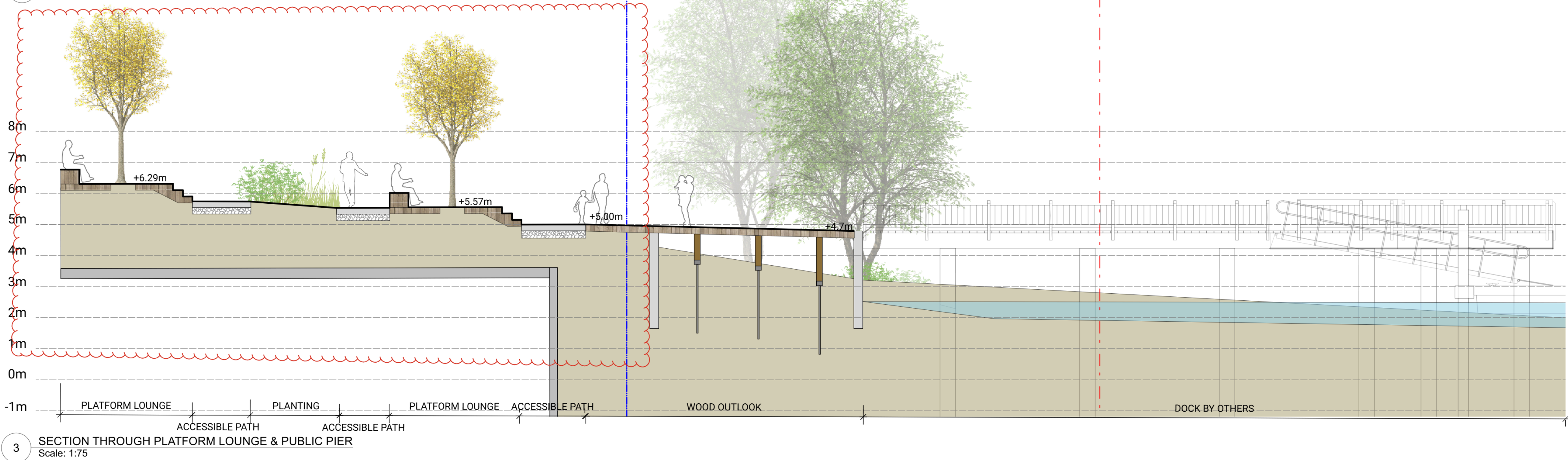
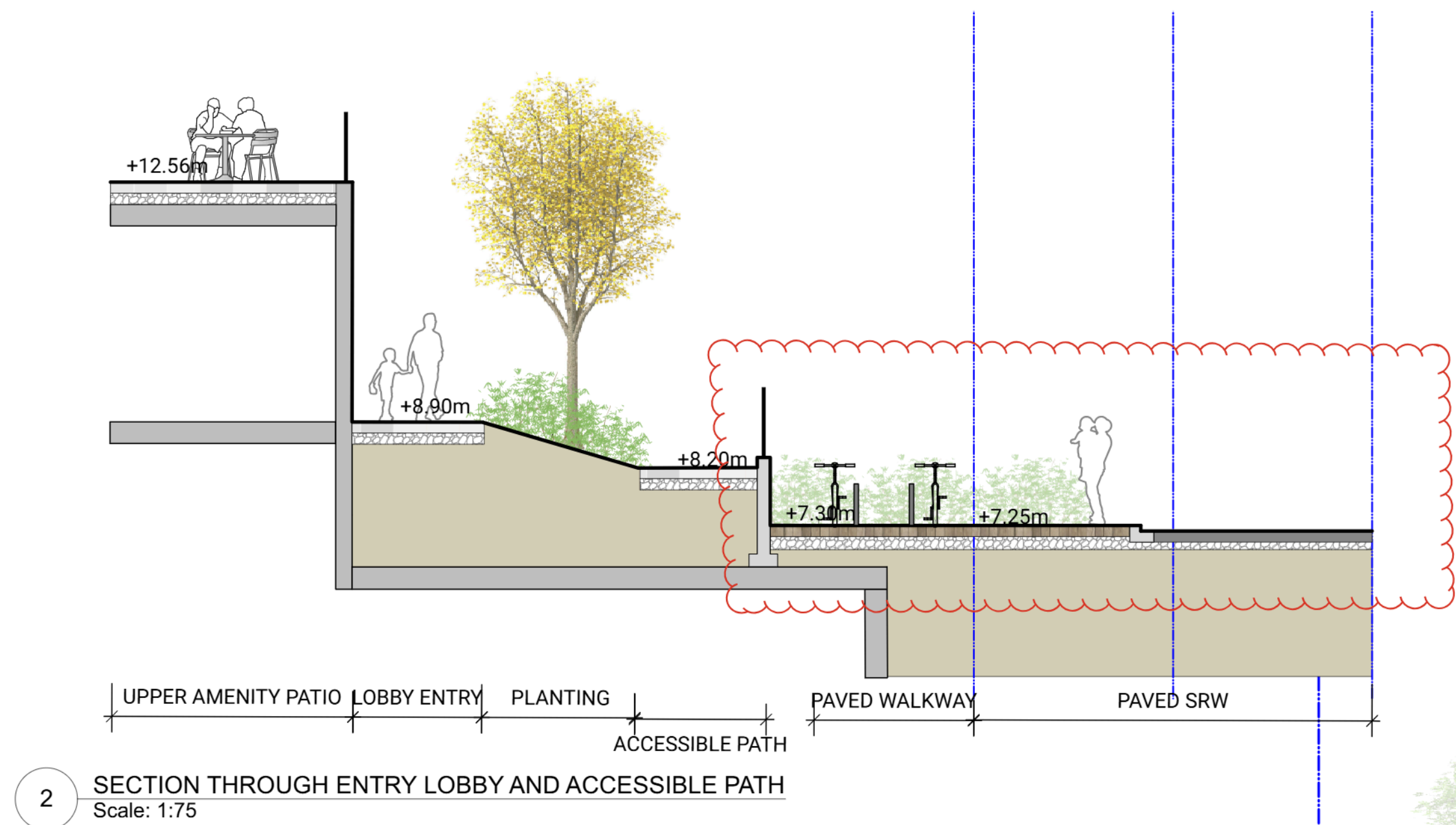


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KEYPLAN



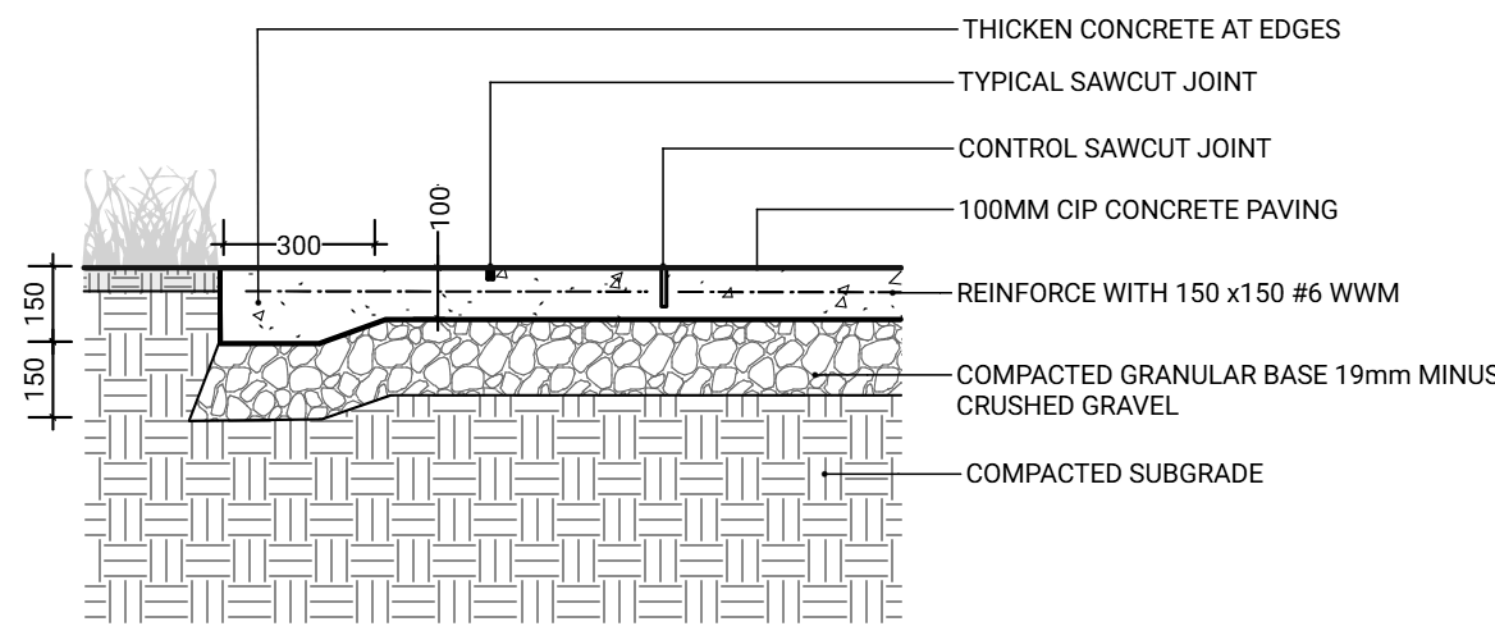
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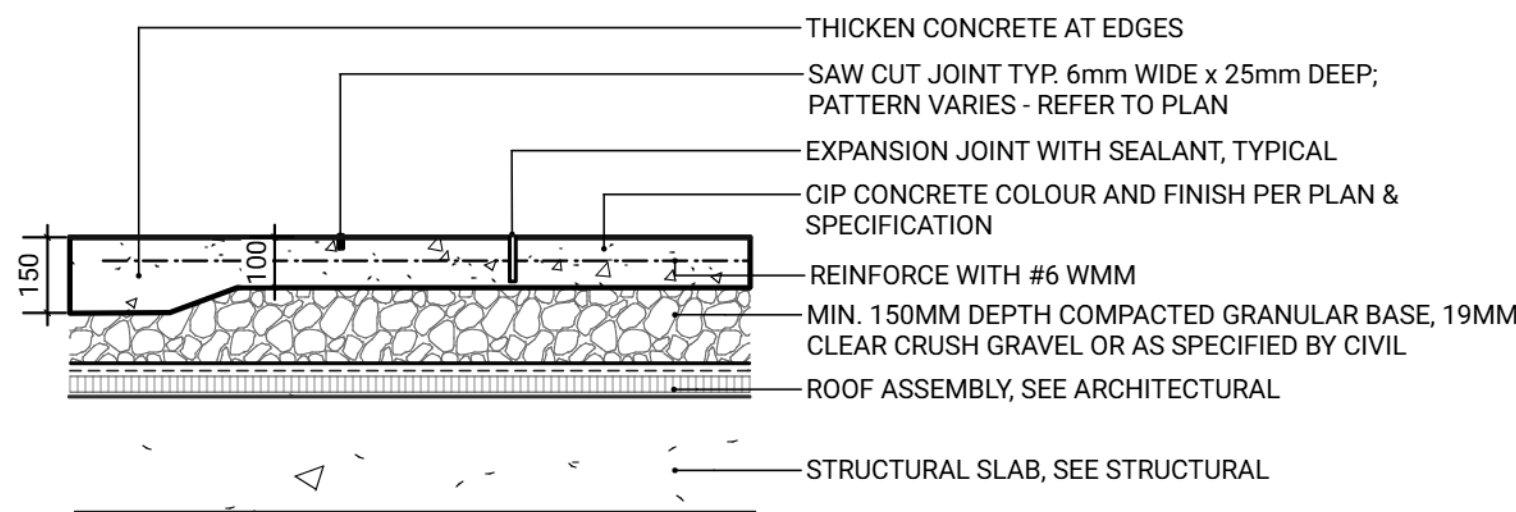
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Drawn:	YL
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## SECTIONS AMENITY





1 CIP CONCRETE PAVING ON GRADE  
Scale: 1:15



NOTES:  
1. EXPANSION JOINTS 6m O.C. MAX. CONTROL JOINTS @ 1.5m O.C. ADJUST TO SUIT SITE LAYOUT PLAN.  
2. ALL SCORELINES TO BE APPROVED BY LANDSCAPE ARCHITECT ON-SITE PRIOR TO INSTALLATION.

2 CIP CONCRETE PAVING ON SLAB  
Scale: 1:15



MANUFACTURER: MARATHON SURFACES  
MATERIAL: COLOR TBD

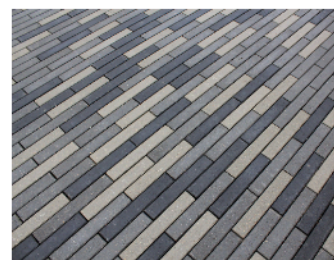
3 RUBBER PLAY SURFACE  
Scale: Actual Size



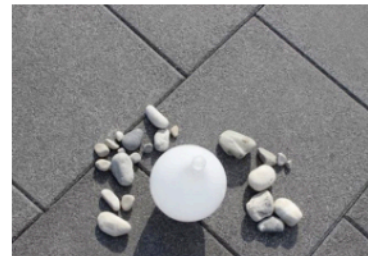
MANUFACTURER: RYMAR GRASS  
MODEL: RYMAR PRO PUTT

4 ARTIFICIAL TURF  
Scale: Actual Size

CONCRETE UNIT PAVER  
MODEL: BROADWAY PLANK 100  
SIZE: 600mm x 150mm x 100mm  
COLOUR: NATURAL, CHARCOAL, STERLING  
PATTERN: RUNNING BOND  
BY: BARKMAN CONCRETE



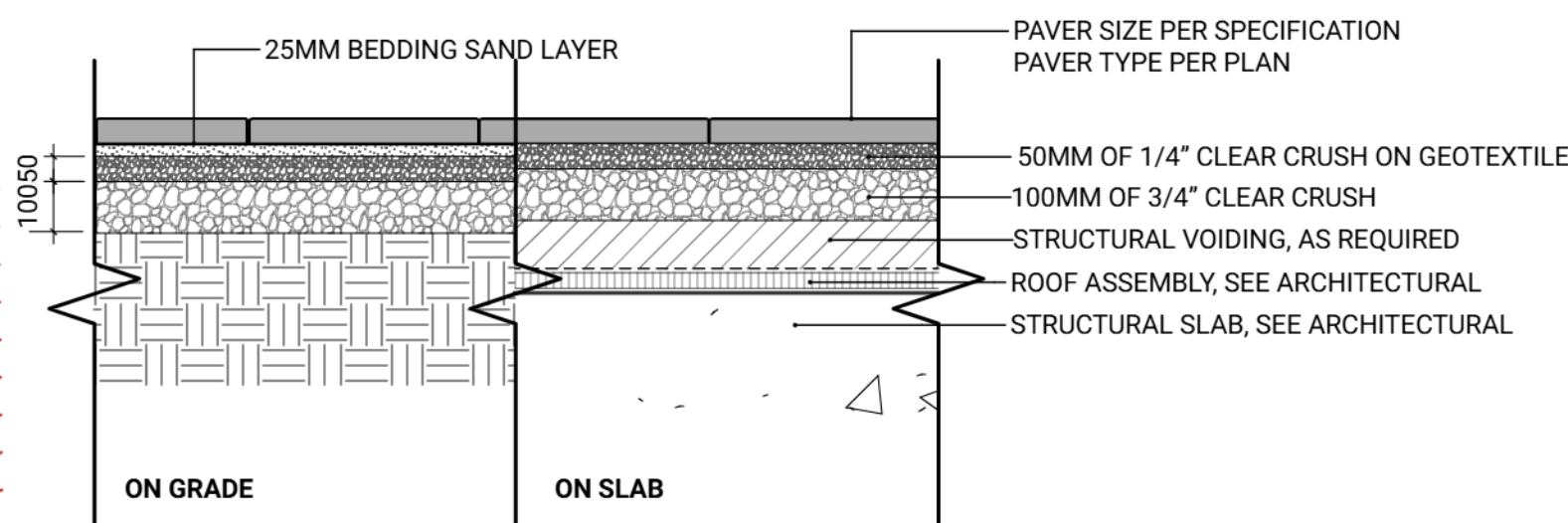
PATIO SLAB PAVER  
MODEL: MANHATTAN VIBROPRESSED SLABS  
SIZE: 454mm x 454mm x 50.8mm  
COLOUR: CHARCOAL  
PATTERN: GRID  
BY: NEWSTONE



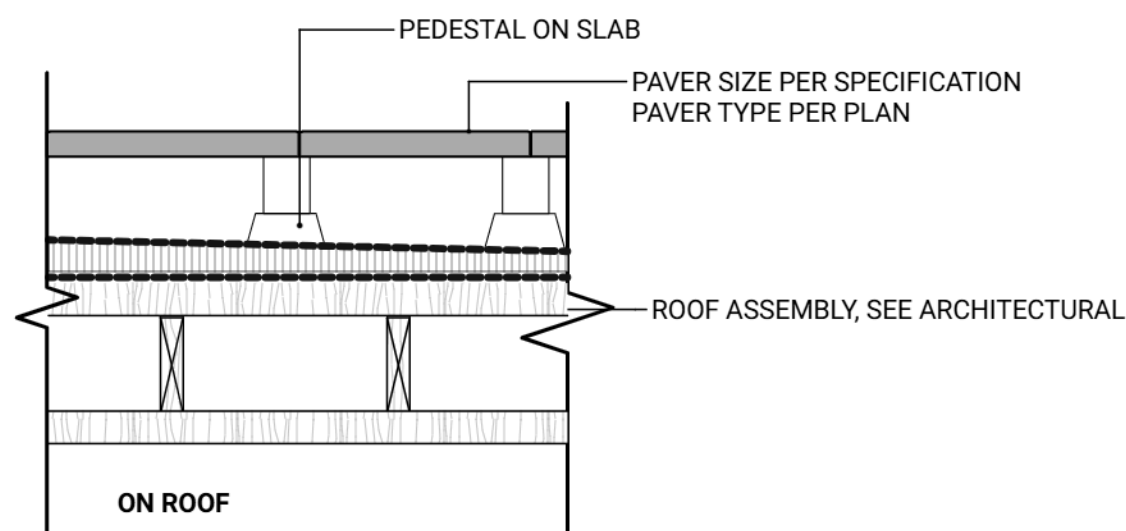
WOOD DECKING  
TYPE: IPE WOOD TILE  
SIZE: 1218 x 606 x 43 mm  
COLOUR: BROWN  
FINISH: SMOOTH  
BY: BISONIP



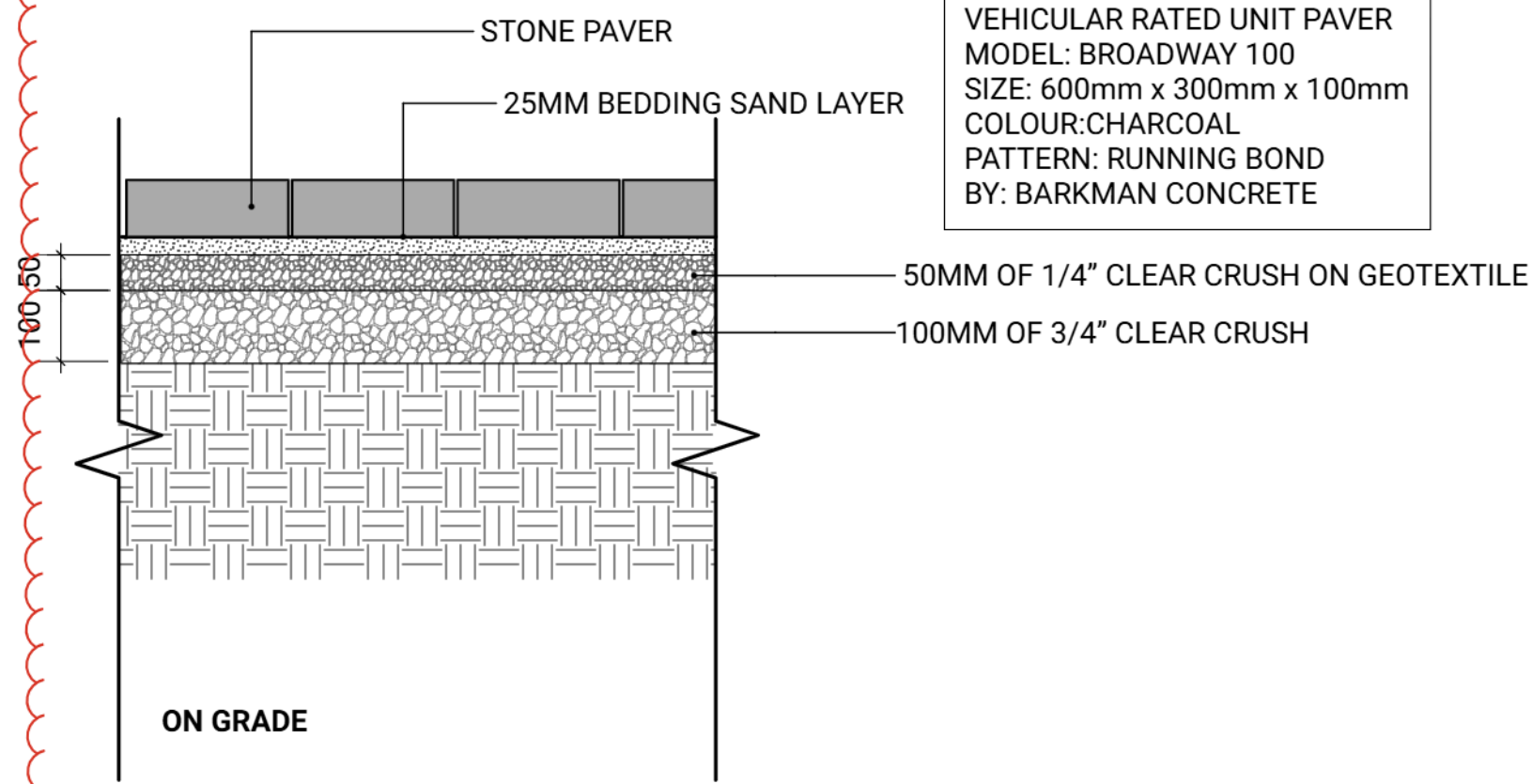
ROOF SLAB PAVER  
MODEL: MANHATTAN VIBROPRESSED SLABS  
SIZE: 301mm x 606mm x 50.8mm  
COLOUR: NORTH SHADOW  
PATTERN: GRID  
BY: NEWSTONE



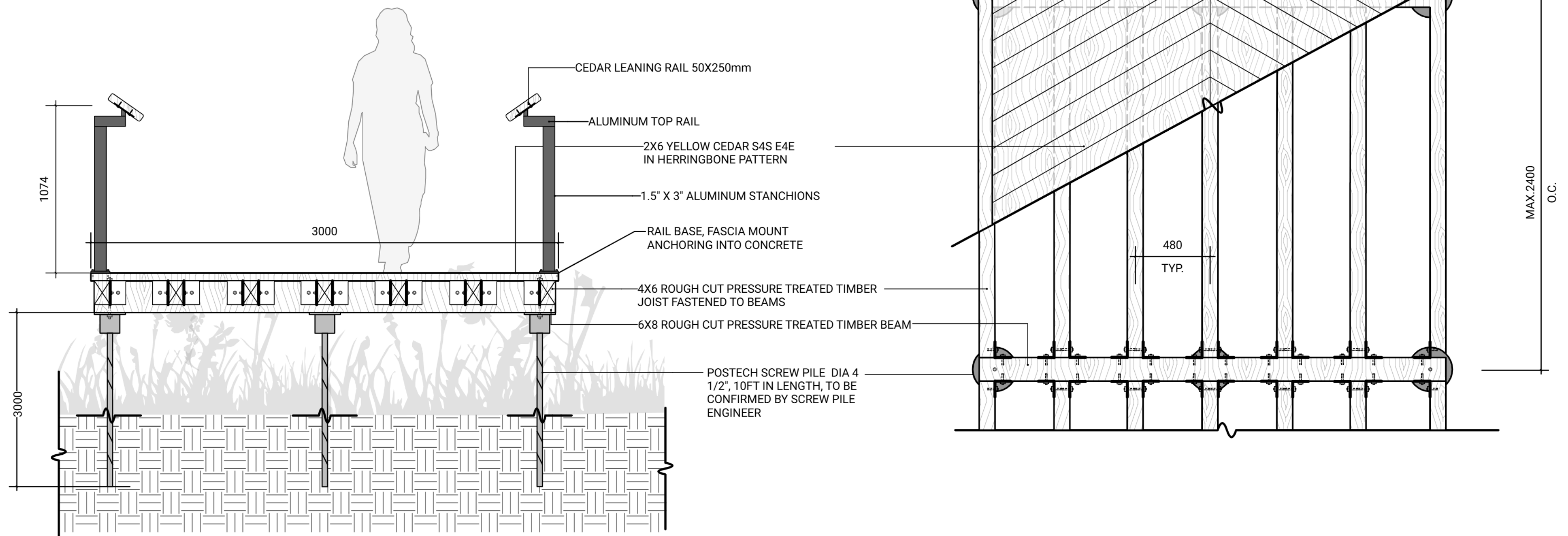
5 PAVER ON GRADE/ ON SLAB  
Scale: 1:15



6 PAVER ON ROOF  
Scale: 1:15



7 VEHICULAR STONE PAVER  
Scale: 1:10



8 HERRINGBONE BOARDWALK W/METAL RAIL  
Scale: 1:20

KEYPLAN



SEAL

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REVISIONS

INTRACORP GORGE PH2

Scale:	AS SHOWN
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HARDSCAPE DETAILS

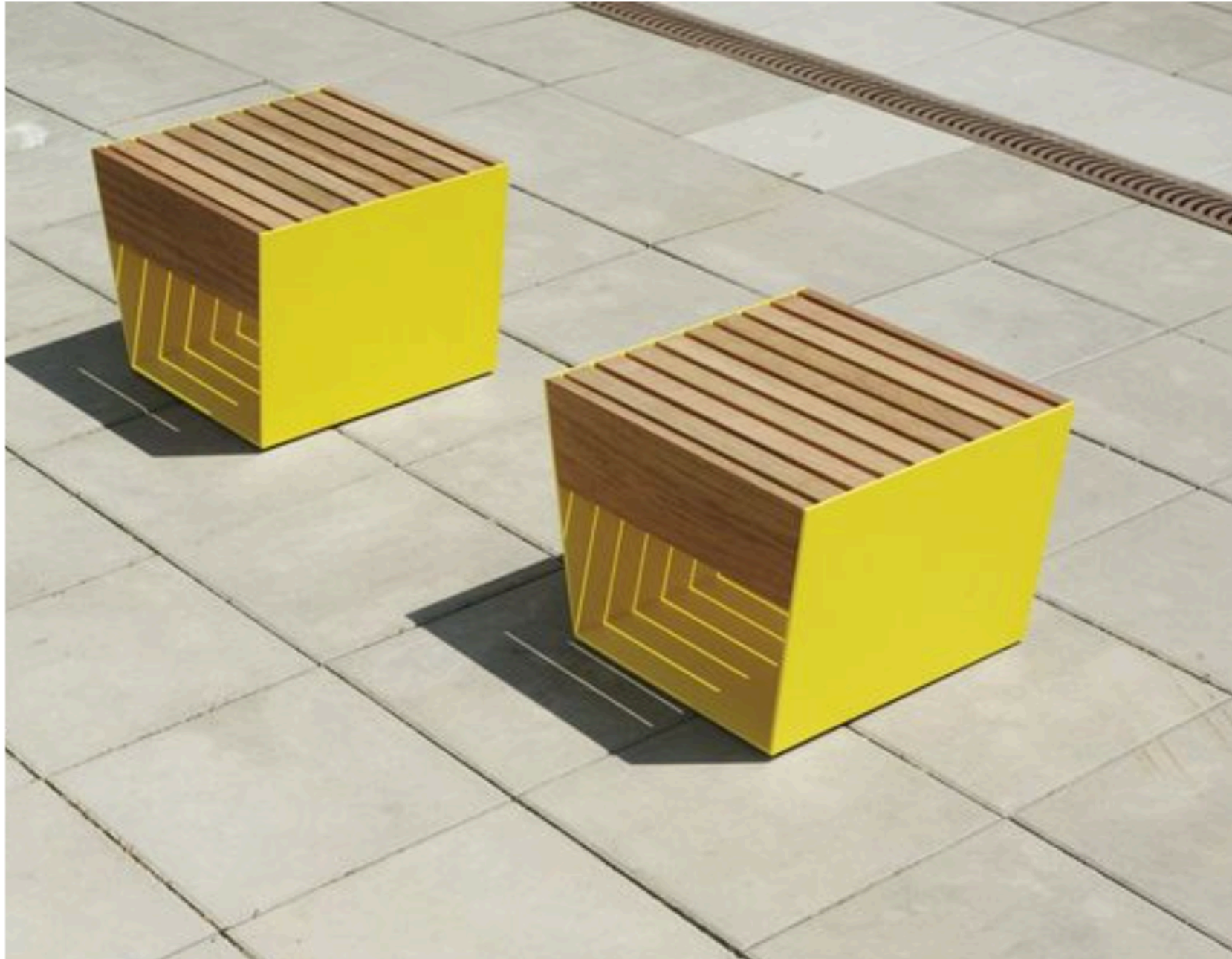




1 BIKE RACK  
Scale: Actual Size



2 BENCH  
Scale: Actual Size



3 REMOVABLE SEATING  
Scale: Actual Size



4 OUTDOOR WORKSTATION  
Scale: Actual Size



5 PICNIC TABLE  
Scale: Actual Size



6 METAL PLANTER  
Scale: Actual Size



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1 CHESS TABLE  
Scale: Actual Size



2 COMMUNITY HERB GARDEN  
Scale: Actual Size



3 KIDS PLAY  
Scale: Actual Size



4 KIDS PLAY  
Scale: Actual Size



5 KIDS PLAY  
Scale: Actual Size



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FURNISHING DETAILS 02





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REVISIONS

INTRACORP GORGE PH2

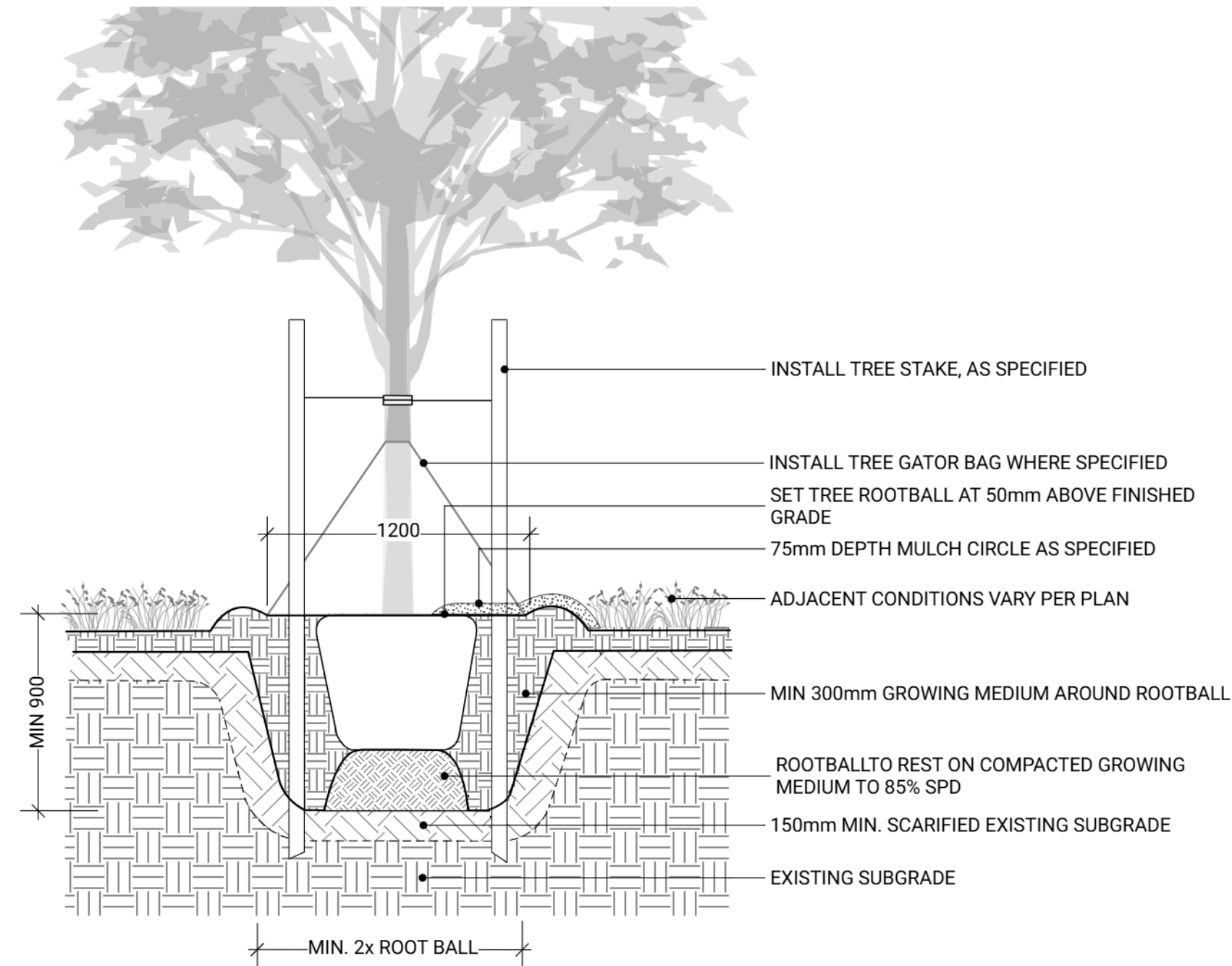
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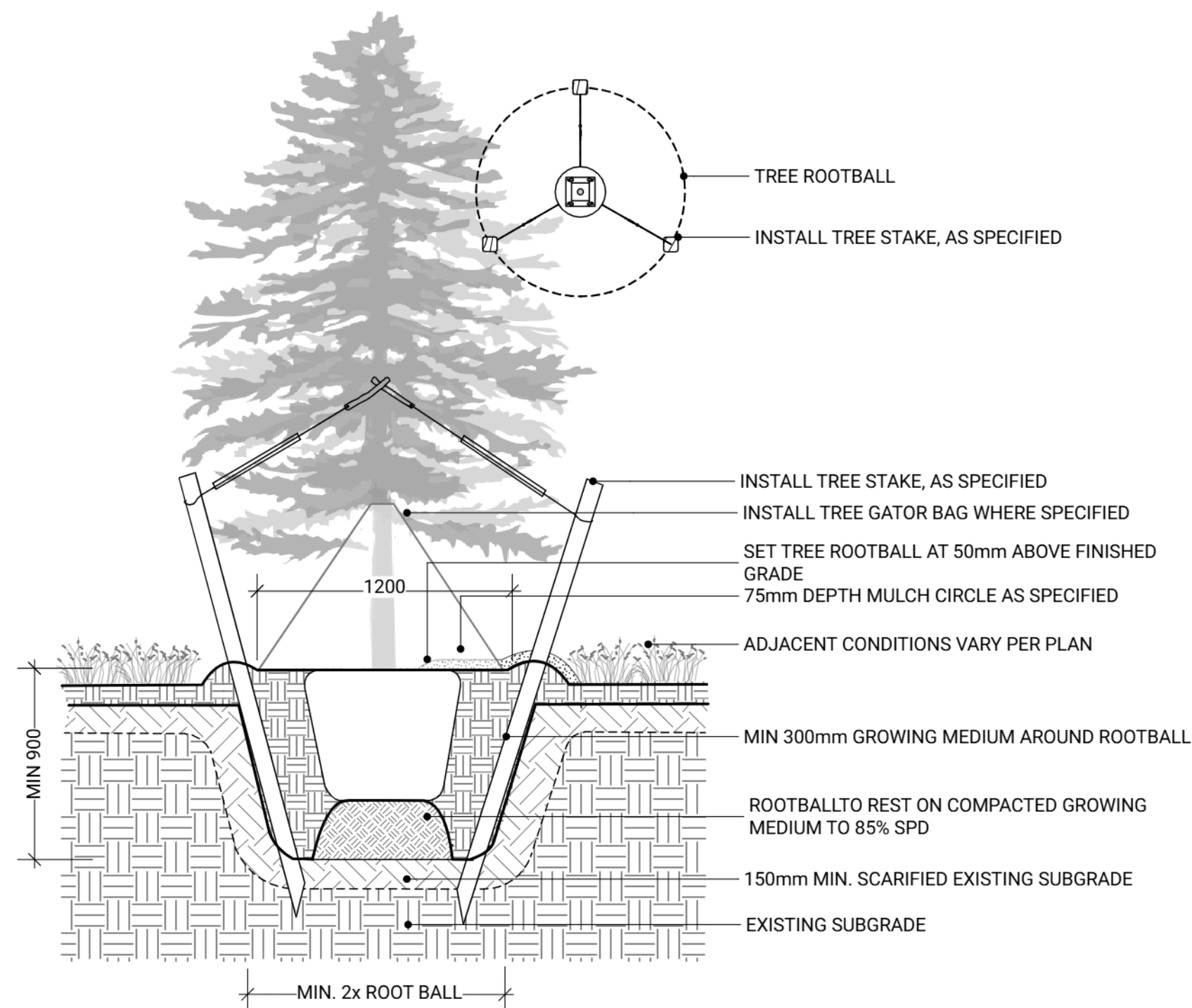
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Project No. 06-793

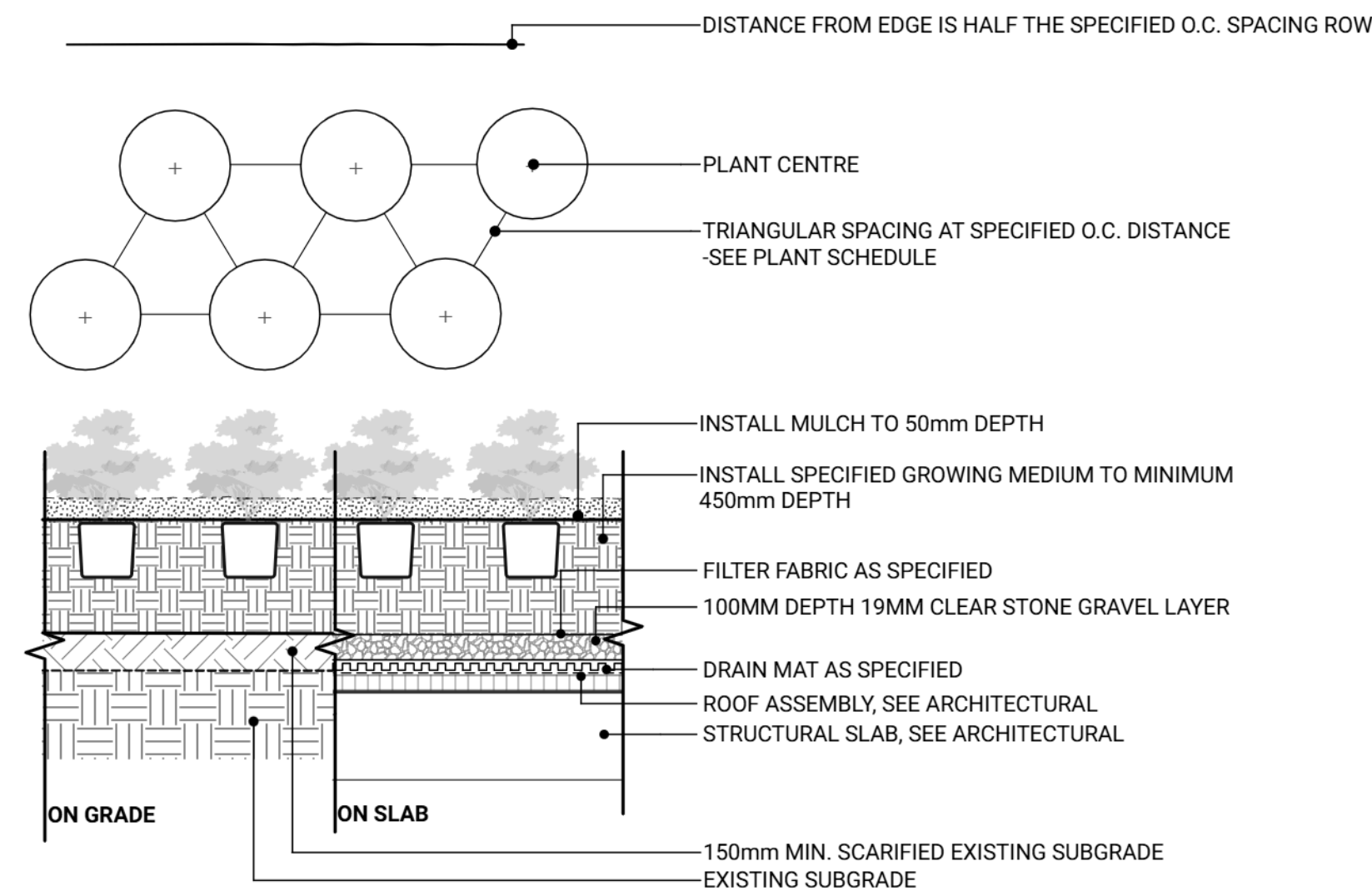
SOFTSCAPE DETAILS



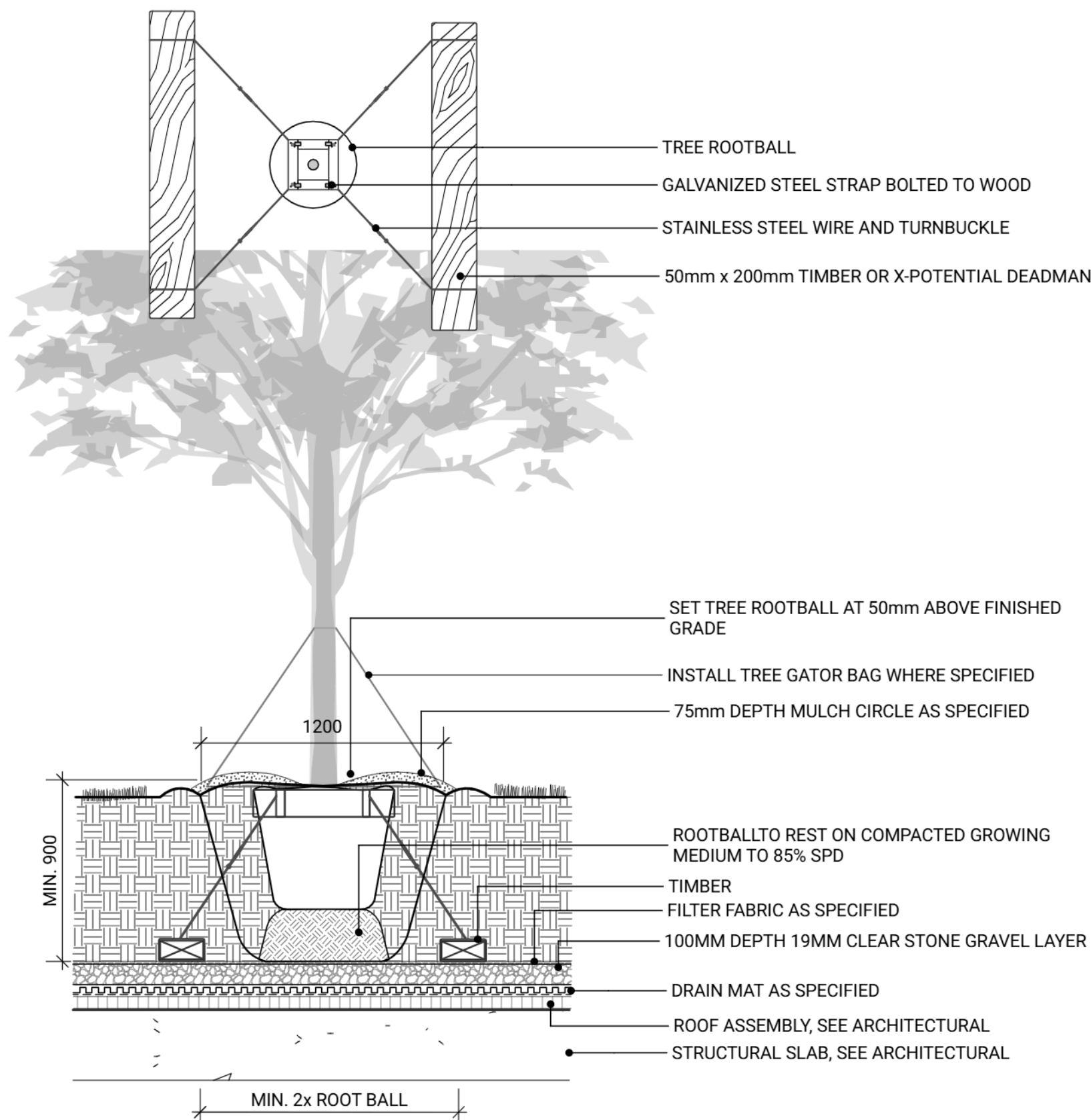
1 DECIDUOUS TREE PLANTING (TYPICAL)  
Scale: 1:25



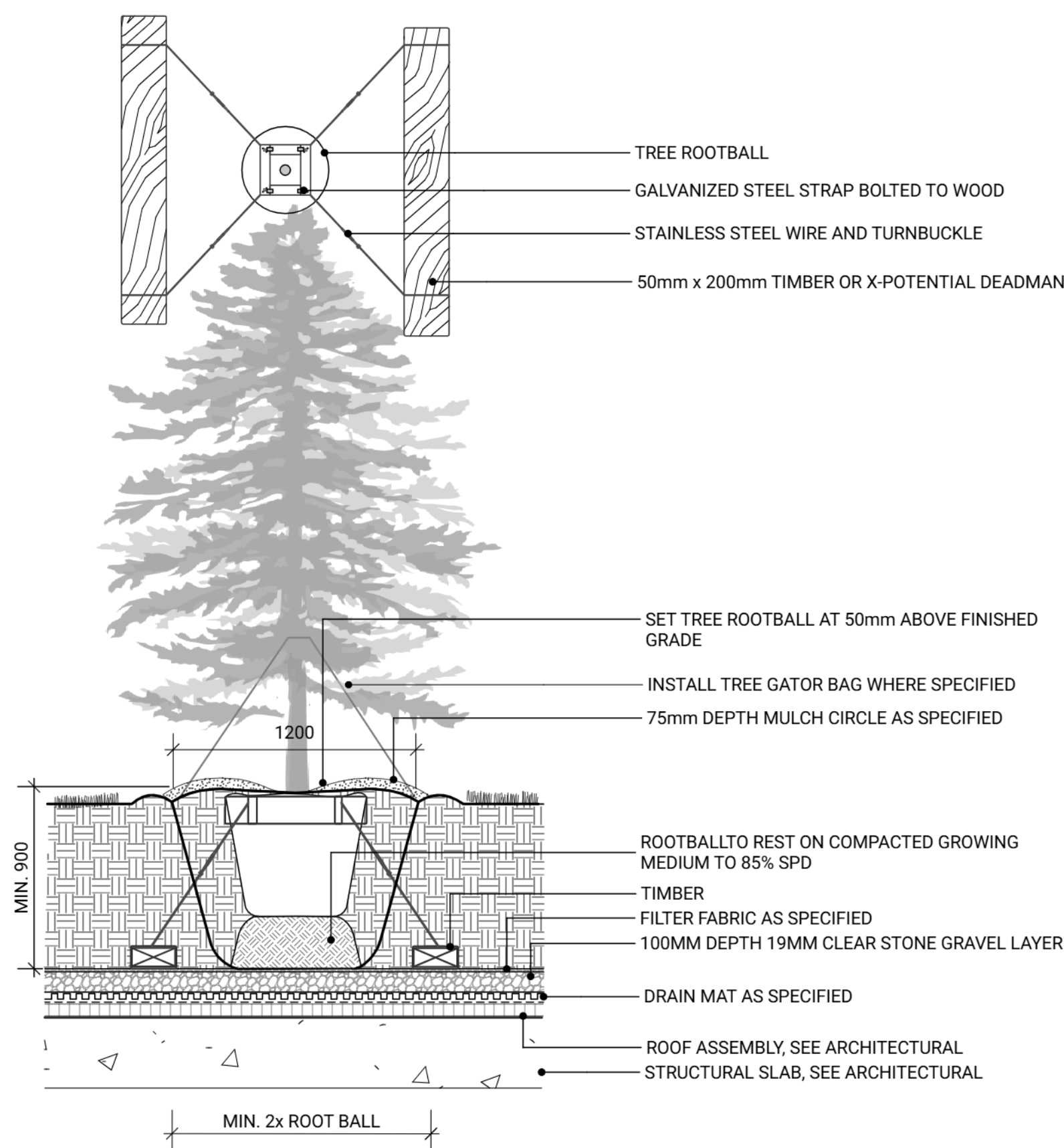
2 CONIFEROUS TREE PLANTING (TYPICAL)  
Scale: 1:25



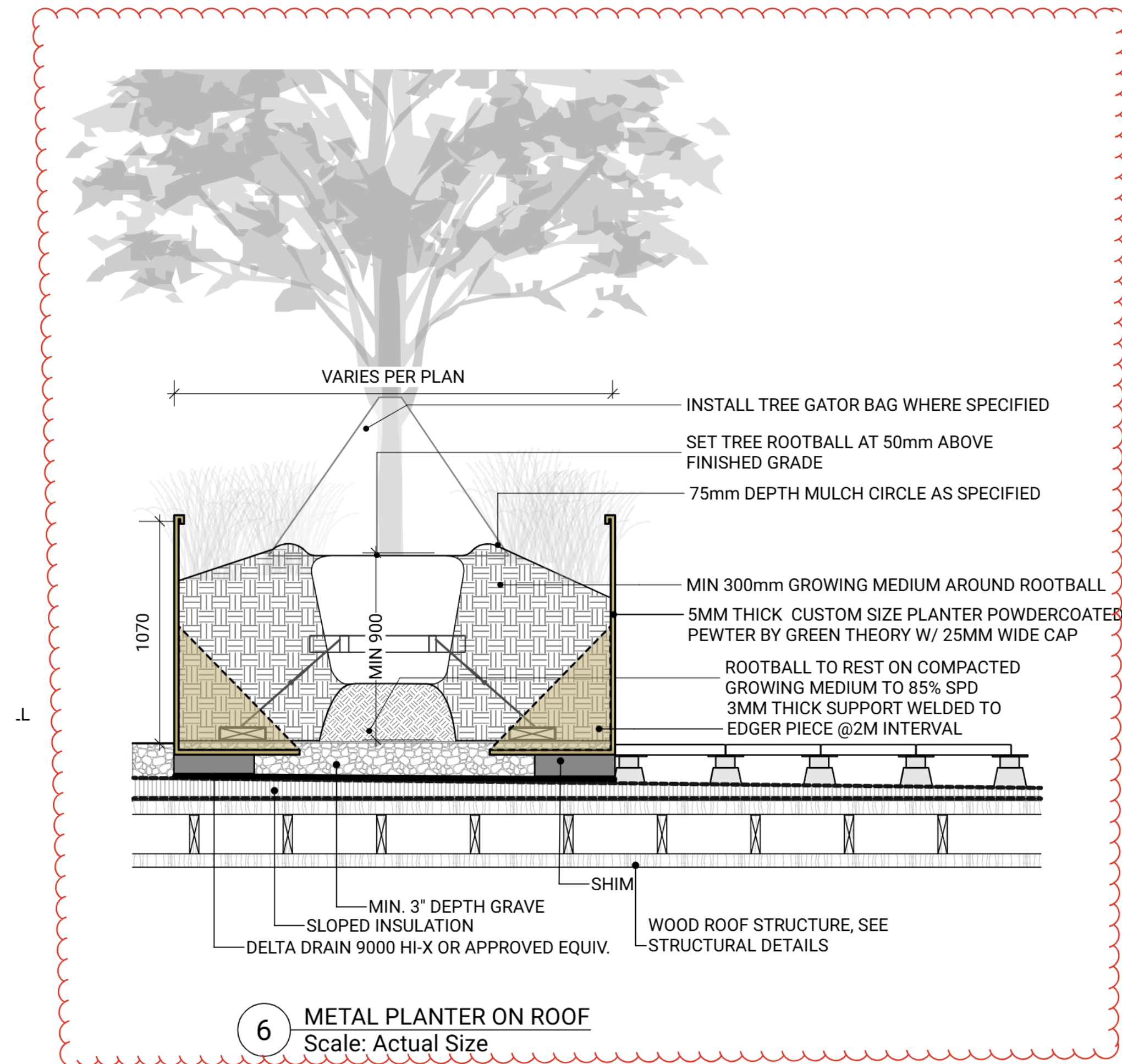
5 PLANTING (TYPICAL)  
Scale: 1:25



3 DECIDUOUS TREE PLANTING ON SLAB (TYPICAL)  
Scale: 1:25



4 CONIFEROUS TREE PLANTING ON SLAB (TYPICAL)  
Scale: 1:25



6 METAL PLANTER ON ROOF  
Scale: Actual Size

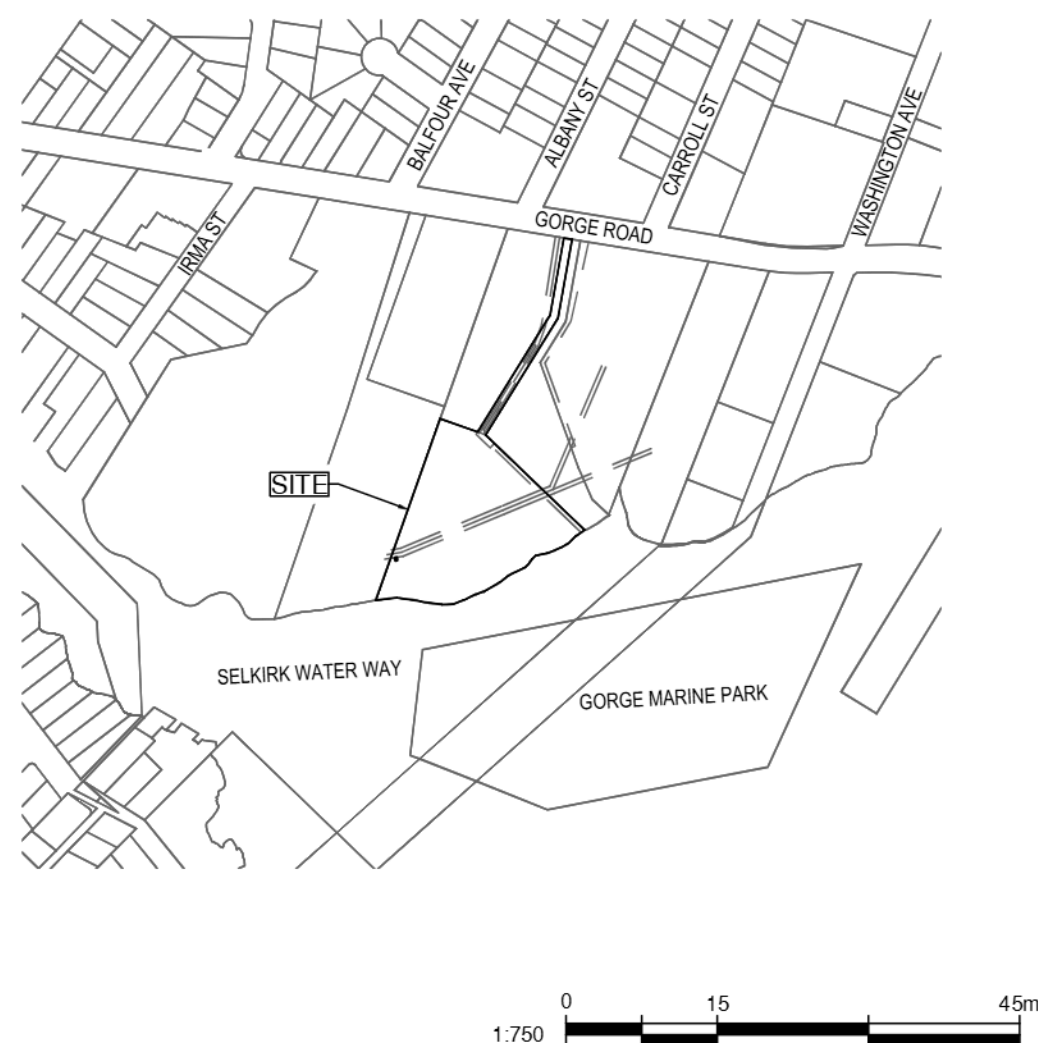
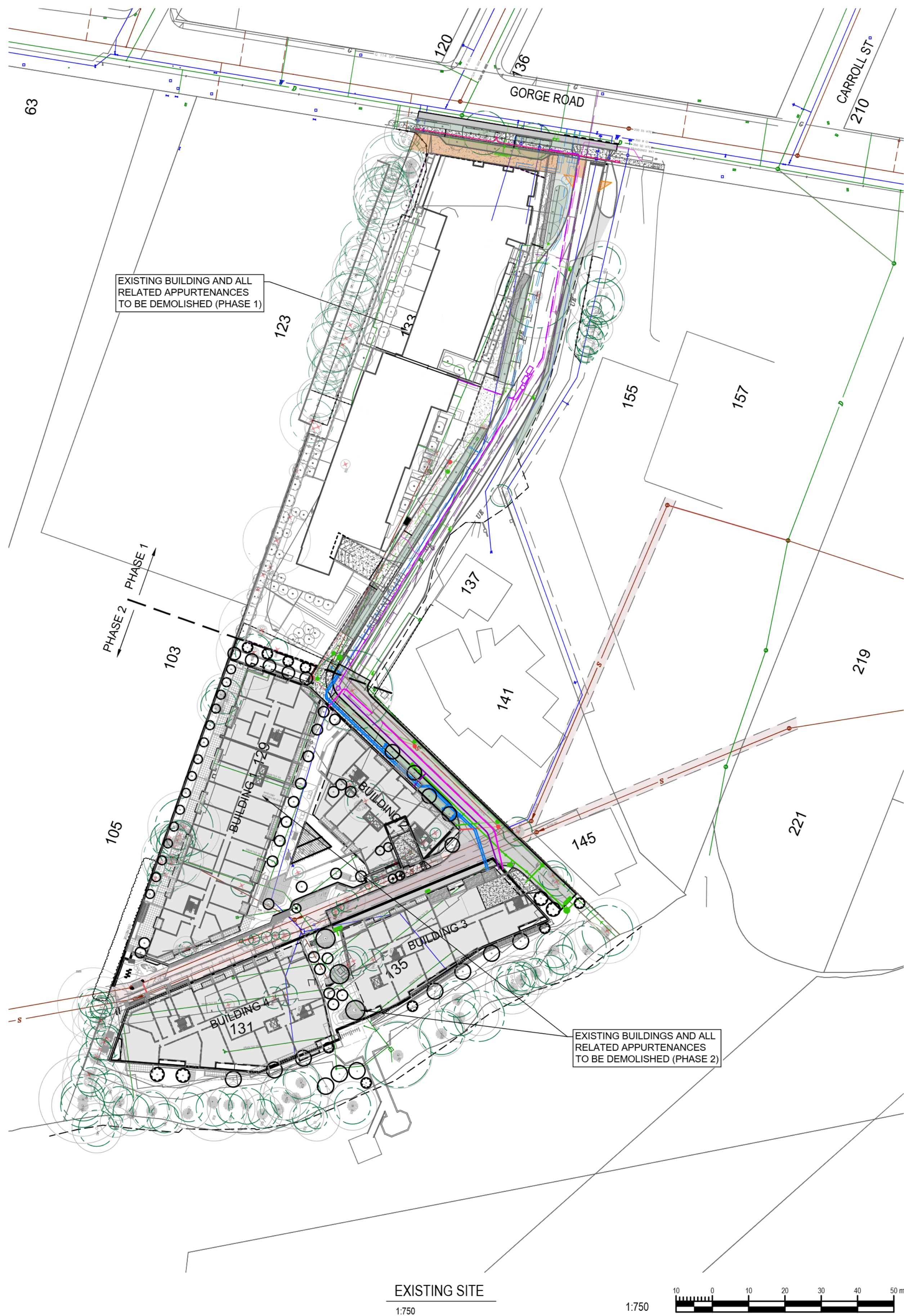


SAN/DRN/WAT/IRD NOTES:

- CONSTRUCTION TO BE UNDERTAKEN USING BEST MANAGEMENT PRACTICES FOR STORMWATER TREATMENT. CONTRACTOR IS RESPONSIBLE TO PREPARE AND FOLLOW A SILT ABATEMENT PLAN WHICH WILL PREVENT CONTAMINATED WATER FROM ENTERING THE STORM SYSTEM, OVERLAND DRAINAGES, CREEKS AND WETLAND AREAS.
- SEWER/WATER/DRAIN CONSTRUCTION WITHIN PRIVATE EASEMENTS TO BE IN ACCORDANCE WITH BC PLUMBING CODE.
- ALL WATERMAIN FITTINGS MUST BE PIPE RESTRAINED OR THRUST BLOCKED.
- REINSTATE ALL EXISTING WATER SERVICES AND ABANDON MAINS ONLY AFTER NEW WATERMAIN HAS BEEN APPROVED FOR USE.
- CONTRACTOR TO CONDUCT PRESSURE TEST, FLUSH AND DISINFECT WATERMAINS IN ACCORDANCE WITH MMCD AND AWWA STANDARDS IN THE PRESENCE OF ENGINEER OR REPRESENTATIVE. WATER SAMPLES FOR HEALTH TESTS TO BE COLLECTED AND PROCESSED BY CONTRACTOR.
- NEUTRALIZE CHLORINE SOLUTIONS IN ACCORDANCE WITH MINISTRY OF THE ENVIRONMENT AND FISHERIES AND OCEANS PRIOR TO DISCHARGE TO ANY DRAINAGE COURSE.
- CONNECTIONS TO EXISTING WATERMAINS AND METERS TO BE BY CITY OF VICTORIA CREWS AT APPLICANTS EXPENSE.
- CATCHBASINS AND MANHOLE COVERS TO HAVE GEOTEXTILE PLACED BETWEEN FRAME AND GRATES TO REDUCE INFLOW OF SEDIMENT UNTIL SITE IS PAVED AND LANDSCAPED. CONTRACTOR TO CLEAN/REPLACE GEOTEXTILE AS REQUIRED TO ACHIEVE FLOW INTO CATCHBASINS.
- ALL MANHOLES 1050mm DIAMETER, UNLESS OTHERWISE NOTED. MANHOLE CASTINGS TO BE C44A.
- SANITARY AND DRAIN MAINS TO BE FLUSHED AND VIDEO INSPECTED BY CONTRACTOR.
- CONNECTION TO EXISTING SAN AND DRAIN MAINS TO BE UNDER CITY OF VICTORIA SUPERVISION.
- EXISTING SERVICES MUST BE EXPOSED AT CROSSING AND TIE-IN POINTS PRIOR TO CONSTRUCTION FOR GRADE CHECK.
- PIPES THAT ARE TO BE ABANDONED SHALL BE SAW-CUT A MINIMUM OF 1.5m FROM EXISTING CONNECTION WITH ENDS CAPPED AND ENCASED IN CONCRETE. REMOVE/FILL ALL REDUNDANT CASTINGS ONCE TURNOVER IS COMPLETE.
- ALL RESIDENTS TO BE NOTIFIED IN WRITING A MINIMUM OF 48 HOURS PRIOR TO ANY SCHEDULED WATER SERVICE OR ACCESS DISRUPTIONS. MAXIMUM SHUTDOWN 4 HOURS.
- ANY UNSCHEDULED UTILITY SERVICE DISRUPTIONS TO BE RECTIFIED IN A TIMELY MANNER. CONTRACTOR TO KEEP STANDARD REPAIR COMPONENTS ON SITE AT ALL TIMES. CONTRACTOR TO IMMEDIATELY NOTIFY CITY OF VICTORIA AND/OR CRD REPRESENTATIVE OF ANY UNSCHEDULED UTILITY SERVICE DISRUPTION.
- ALL ROADS ARE KEPT CLEAN OF DEBRIS ON A REGULAR BASIS.
- ALL EXISTING ASPHALT TO BE CUT SQUARE WITH ASPHALT SAW.
- CONTRACTOR TO CO-ORDINATE CONCRETE, ASPHALT AND AGGREGATE TESTS AS REQUIRED BY ENGINEER.
- UNDERGROUND WIRING AND GAS TO BE CONSTRUCTED IN ACCORDANCE WITH BC HYDRO/TEL/CABLE/GAS DRAWINGS AND SPECIFICATIONS.

TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL TO CONFORM TO MOST CURRENT WORKSAFE BC, MMCD, AND MINISTRY OF TRANSPORTATION SPECIFICATIONS (TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS), AND THESE DRAWINGS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO PREPARE AND SUBMIT TO CITY OF VICTORIA A TRAFFIC CONTROL PLAN FOR ACCEPTANCE. DOCUMENT TO INCLUDE DETAILS OF ALL WORK SITES AND LANE CLOSURE REQUIREMENTS.
- PROVIDE TRAFFIC CONTROL, SIGNAGE, BARRICADES AND ILLUMINATION, AND DETOUR ROUTING AS REQUIRED TO MAINTAIN TRAFFIC FLOW AND EMERGENCY VEHICLE ACCESS.
- ALL FLAG PERSONS TO HAVE PROOF OF CERTIFICATION. FLAG PERSONS STRICTLY REQUIRED WHEN ONLY ONE OPEN LANE OF TRAFFIC.
- AT THE END OF EVERY DAY, EXCAVATIONS SHALL BE COVERED WITH STEEL TRAFFIC PLATES SUITABLE FOR VEHICULAR TRAFFIC (MINIMUM H20 LOADING) WHEREVER POSSIBLE.
- 24 HOUR EMERGENCY CONTACT INFORMATION FOR CONTRACTOR REPRESENTATIVE TO BE PROVIDED TO CITY OF VICTORIA.
- CITY OF VICTORIA TO BE ADVISED OF ROUTING FOR DETOURS, IF REQUIRED, PRIOR TO ACCEPTANCE.
- CONTRACTOR TO CONFORM TO CITY OF VICTORIA NOISE BY-LAW.



REVISION					
REV	DATE	DESCRIPTION	DES	DRW	CHK
1	2025-08-20	RE-ISSUED FOR DEVELOPMENT PERMIT	VKQ	VKQ	JCS
0	2024-11-28	ISSUED FOR DEVELOPMENT PERMIT	VKQ	VKQ	JCS

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DESIGNED BY: VKQ  
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DRAWN BY: ---  
APPROVED BY: ---  
DISCIPLINE: CIVIL

DATE: ---  
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PROJECT NUMBER: CA56052 8480

CLIENT: INTRACORP HOMES

CLIENT REF: # --

TITLE: GENERAL NOTES & SITE PLAN

PROJECT: BELLWETHER PHASE 2

DRAWING NUMBER: C001

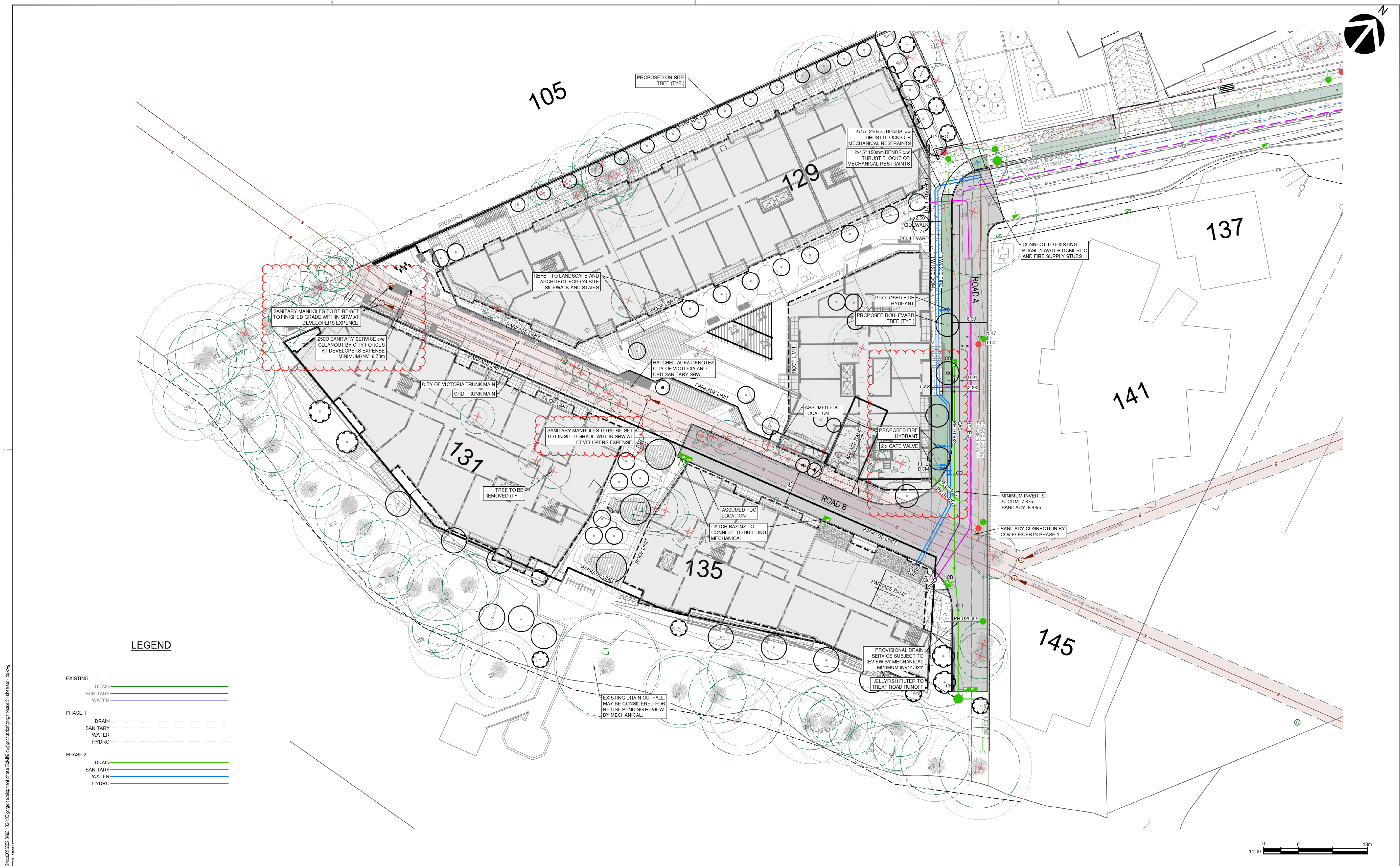
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CTB: 2025-08-21 7:25 AM  
FILE: v:\projects\2025\08\21\25-08-21-725-AM\production\phase 2\civil.dwg  
PLOT: 2025-08-21 7:25 AM



REVISION				
1	2025-08-20	RE-ISSUED FOR DEVELOPMENT PERMIT	VKQ	VKQ
0	2024-11-28	ISSUED FOR DEVELOPMENT PERMIT	VKQ	VKQ
REV	DATE	DESCRIPTION	DES	DRW

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2025-09-23

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CLIENT:

INTRACORP HOMES

CLIENT REF: # --

TITLE:

PROPOSED SITE SERVICING

PROJECT:

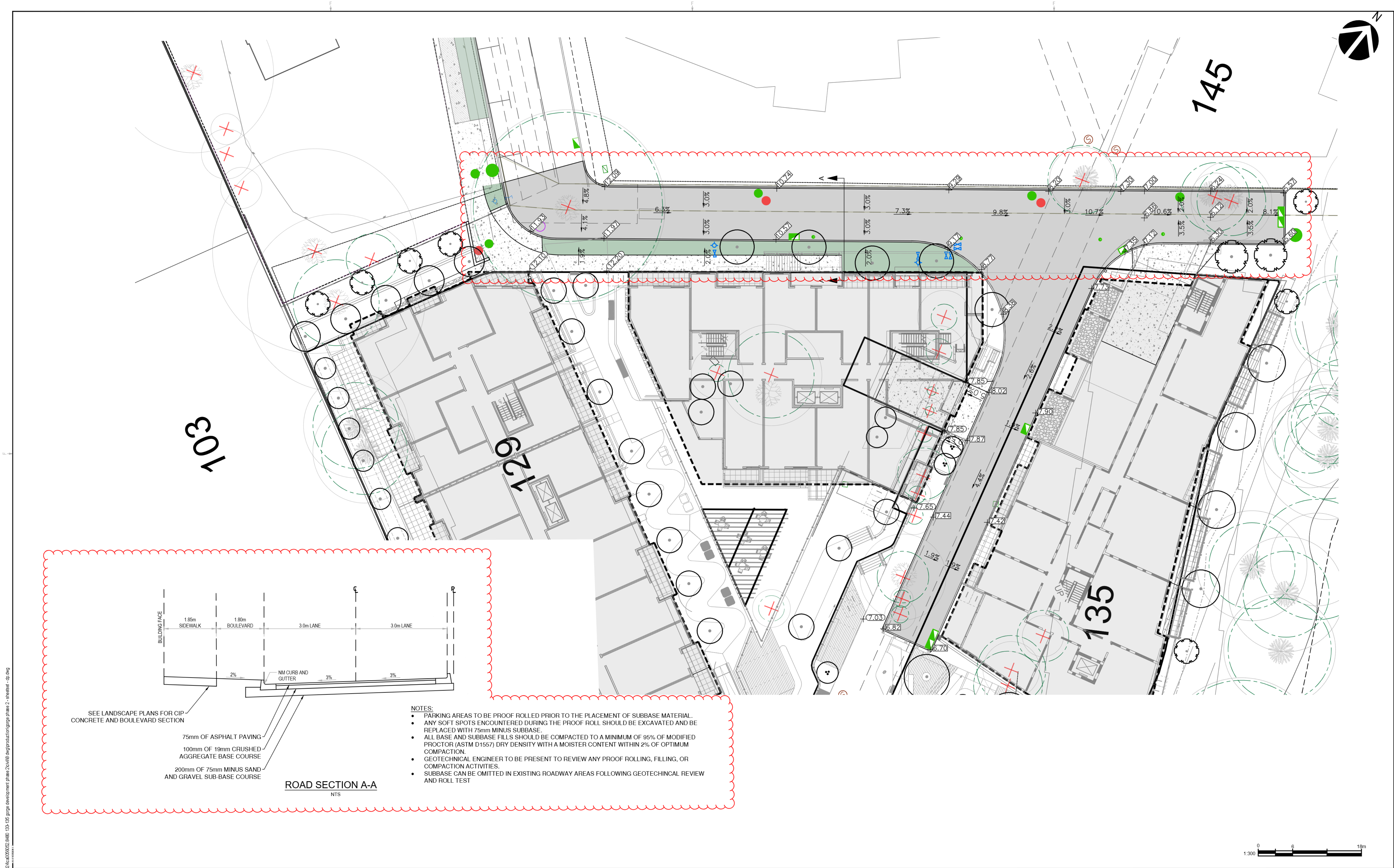
BELLWETHER PHASE 2

DRAWING NUMBER: C102

REV: 1



CTB: 11/25/2024 11:25:24 AM  
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PLOT: 11/25/2024 11:25:24 AM  
PLOT: 11/25/2024 11:25:24 AM

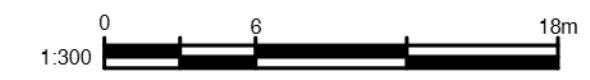


SEE LANDSCAPE PLANS FOR CIP-  
CONCRETE AND BOULEVARD SECTION

75mm OF ASPHALT PAVING  
100mm OF 19mm CRUSHED  
AGGREGATE BASE COURSE  
200mm OF 75mm MINUS SAND  
AND GRAVEL SUB-BASE COURSE

ROAD SECTION A-A  
NTS

- NOTES:
- PARKING AREAS TO BE PROOF ROLLED PRIOR TO THE PLACEMENT OF SUBBASE MATERIAL.
  - ANY SOFT SPOTS ENCOUNTERED DURING THE PROOF ROLL SHOULD BE EXCAVATED AND BE REPLACED WITH 75mm MINUS SUBBASE.
  - ALL BASE AND SUBBASE FILLS SHOULD BE COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR (ASTM D1557) DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF OPTIMUM COMPACTION.
  - GEOTECHNICAL ENGINEER TO BE PRESENT TO REVIEW ANY PROOF ROLLING, FILLING, OR COMPACTION ACTIVITIES.
  - SUBBASE CAN BE OMITTED IN EXISTING ROADWAY AREAS FOLLOWING GEOTECHNICAL REVIEW AND ROLL TEST



REVISION:				
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0	2024-11-28	ISSUED FOR DEVELOPMENT PERMIT	VKQ	VKQ
REV	DATE	DESCRIPTION	DES	DRW

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CLIENT:  
INTRACORP HOMES

CLIENT REF: # --

TITLE: PROPOSED SITE GRADING		PROJECT: BELLWETHER PHASE 2	
DRAWING NUMBER: C201		REV. 1	



$L$ = LENGTH OF RESTRAINED PIPE (in metres)															
PIPE SIZE (mm)	SILT/SAND				VALVE TEE END	WET CLAY				VALVE TEE END	HARD PAN				VALVE TEE END
	ELBOWS	22'	45'	90'		ELBOWS	22'	45'	90'		ELBOWS	22'	45'	90'	
100	0.3	0.3	1.8	4.3	12.8	0.3	0.9	1.8	4.6	12.5	0.3	0.6	1.5	3.4	10.4
150	0.6	1.2	2.4	5.8	17.7	0.6	1.2	2.7	6.4	18.9	0.6	0.9	1.8	4.6	14.6
200	0.6	1.5	3.0	7.6	23.5	0.9	1.8	3.7	8.5	24.7	0.6	1.2	2.4	6.1	19.2
250	0.9	1.8	3.7	9.1	28.0	0.9	2.1	4.3	10.4	29.6	0.9	1.5	3.1	7.0	22.9
300	0.9	2.1	4.3	10.7	32.9	1.2	2.4	4.9	12.2	34.7	0.9	1.5	3.7	8.2	26.8

L = RESTRAINED LENGTH FOR BRANCH OUTLET OF DROP IN TEES (in metres)

NOMINAL TEE SIZE	SOIL (SILT/SAND)				S = LENGTH OF PIPE ON EACH SIDE OF TEE (in metres)			
	S = 6.1	S = 3.0	S = 1.5	S = 0.3				
100x100	FIRST JOINT	FIRST JOINT			0.3	6.4		
150x150	FIRST JOINT	FIRST JOINT			3.4	9.8		
200x200	FIRST JOINT	FIRST JOINT			7.0	13.4		
250x250	FIRST JOINT				1.5	9.8	16.2	
300x300	FIRST JOINT				4.6	12.8	19.5	

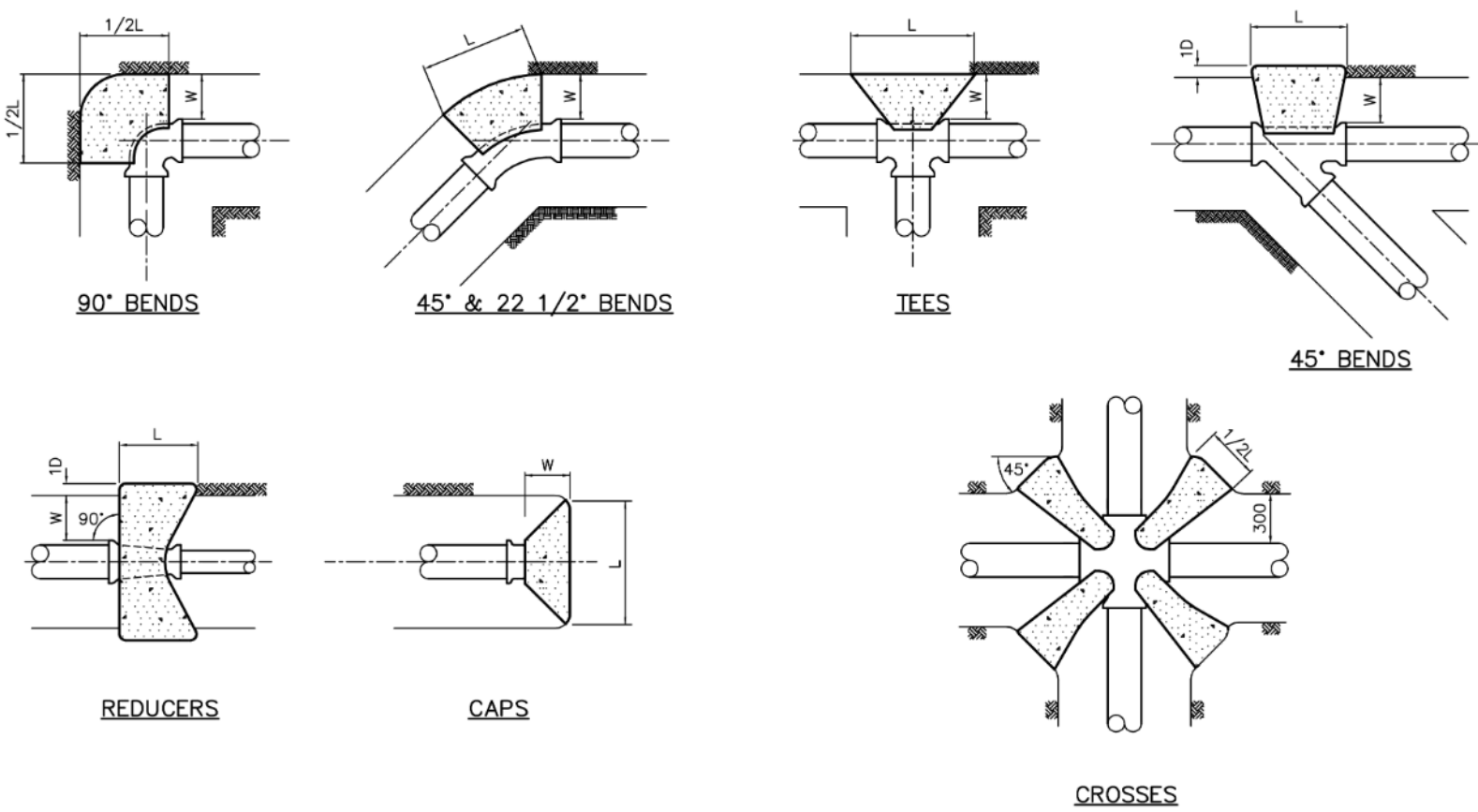
### THRUST RESTRAINT LENGTHS

#### NOTES:

1. WHEN DEPTH OF SOIL COVER IS LESS THAN 0.6M VALUES FOR "L" MUST BE INCREASED BY 30%.
2. WHEN DEPTH OF SOIL COVER IS LESS THAN HALF PIPE O.D. VALUES FOR "L" MUST BE INCREASED BY 100%.
3. WHEN PIPE IS PARTIALLY OR FULLY EXPOSED, ALL JOINTS MUST BE RESTRAINED.
4. WHEN IN DOUBT AS TO SOIL TYPE, DEPTH OR CONFIGURATION USE NEXT LONGEST VALUE OF L..



### SUPPLEMENTARY STANDARD DETAIL DRAWINGS



#### NOTES:

1. TO FIND DIMENSIONS OF THRUST BLOCKS IN SOFT CLAY (BEARING STRENGTH 95-150kPa) MULTIPLY DEPTH SHOWN ON TABLE BY TWO (i.e. 100-90° BEND USE 0.85x0.30 THRUST BLOCKS).
2. FOR PEAT, SILT, UNCONSOLIDATED MATERIAL (i.e. FILL), WITH BEARING STRENGTH LESS THAN 95kPa OR WHERE GROUND CANNOT BE EXCAVATED TO FREE STANDING UNDISTURBED SOIL A THRUST BLOCKS SHALL BE DESIGNED BY AN ENGINEER. CONCRETE THRUST BLOCKS SHALL EXTEND INTO THE VERTICAL FACE OF UNDISTURBED SOIL. THRUST IN SOFT UNSTABLE SOILS WITH BEARING STRENGTH LESS THAN 95kPa WILL REQUIRE REMOVAL OF SOIL AND REPLACEMENT WITH COMPACTABLE FILL OF SUFFICIENT STABILITY TO RESIST THRUST OR SPECIAL ANCHOR BLOCK AS DIRECTED BY THE ENGINEER.
3. FOR MAINS LARGER THAN 250 DIA THRUST BLOCKS SHALL BE DESIGNED BY AN ENGINEER.
4. AT VERTICAL BENDS, BLOCKING SHALL BE DESIGNED BY AN ENGINEER.
5. BLOCKING WILL BE REQUIRED FOR ALL BENDS, TEES, PLUGS, CAPS, PIPE DEFLECTIONS AND OTHER FITTINGS ON LIVE MAINS WHERE ANCHOR RODS ARE NOT PRACTICAL.
6. BLOCKING SHALL BE KEPT CLEAR OF BELLS.
7. THRUST BLOCKS SHALL BE OF AT LEAST 15mPa 28 DAY CONCRETE OR HIGH EARLY STRENGTH CONCRETE IF REQUIRED.
8. MINIMUM CURING TIME OF CONCRETE THRUST BLOCKS SHALL BE 48 HOURS BEFORE WATERMANS ARE CHARGED.
9. PLACE 6 ml POLYETHYLENE ON INTERFACE BETWEEN CONCRETE AND FITTING.

#### CONCRETE THRUST BLOCKING

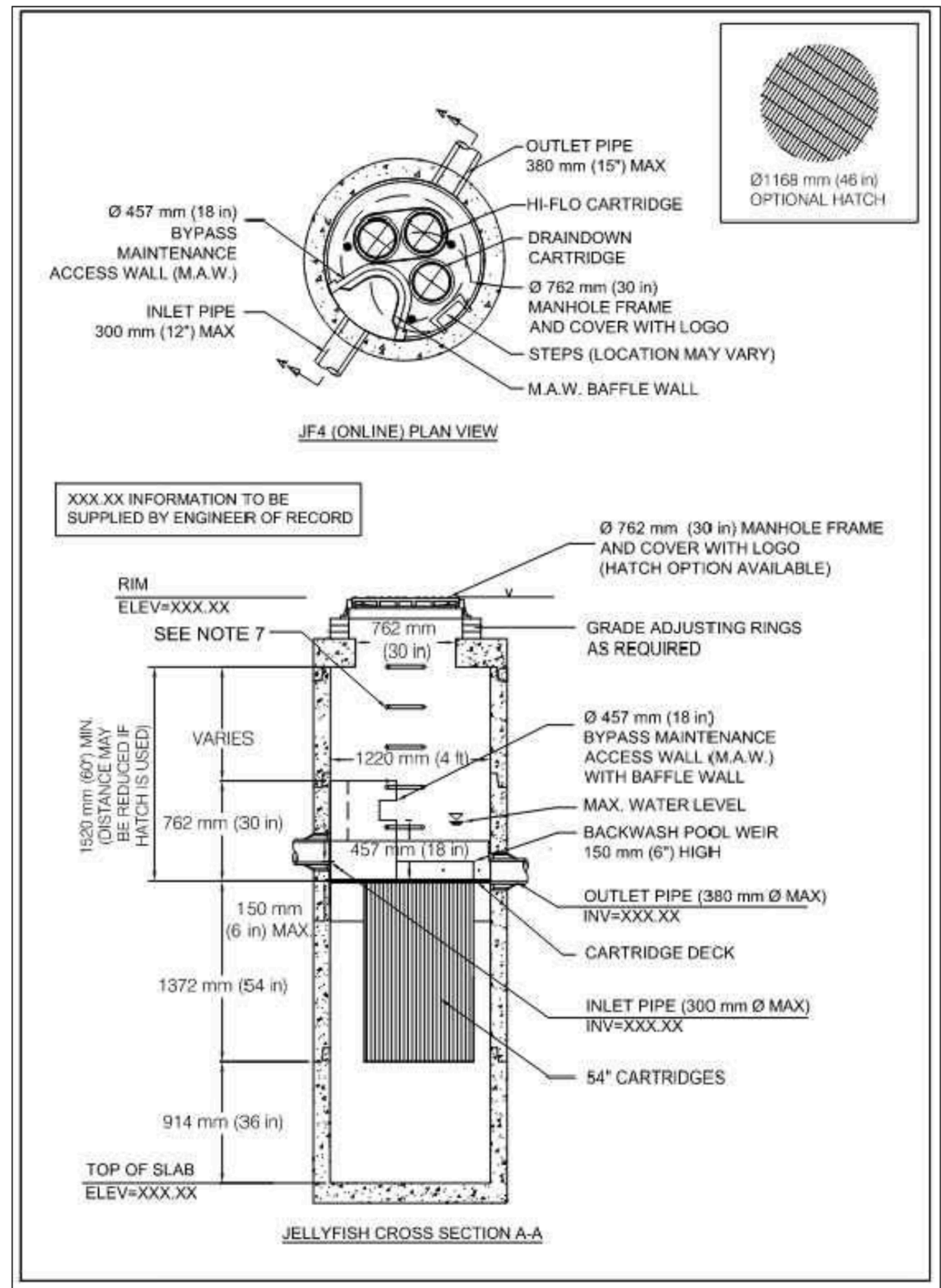
MINIMUM THRUST AREAS BASED ON 1380kPa

BEARING STRENGTH MORE THAN 190kPa FOR HARD CLAY & COMPACTED SAND OR GRAVEL SEE NOTES FOR OTHER MATERIALS									
TYPE OF FITTING	DIA OF FITTING	DIST TO BEARING FACE	AREA -m <sup>2</sup>	LENGTH & DEPTH	HEIGHT				
	Ø	W		FACE -m	H				
90° BEND	100	0.30	0.13	0.85 x 0.15	0.30				
	150	0.30	0.26	1.25 x 0.20	0.45				
	200	0.30	0.45	1.25 x 0.36	0.60				
	250	0.37	0.72	1.25 x 0.58	0.75				
45° BEND 45° WYE	100	0.30	0.07	0.47 x 0.15	0.30				
	150	0.30	0.14	0.70 x 0.20	0.45				
	200	0.30	0.24	1.25 x 0.19	0.60				
	250	0.37	0.39	1.25 x 0.31	0.75				
TEES, CAPS PLUGS & PLUGGED CROSSES	100	0.30	0.09	0.63 x 0.15	0.45				
	150	0.30	0.18	0.91 x 0.20	0.45				
	200	0.30	0.31	1.00 x 0.32	0.75				
	250	0.37	0.51	1.25 x 0.41	0.75				
22 1/2° BEND	100	0.30	0.04	0.25 x 0.15	0.23				
	150	0.30	0.07	0.25 x 0.20	0.45				
	200	0.30	0.15	0.63 x 0.20	0.30				
	250	0.35	0.20	0.80 x 0.25	0.45				
REDUCER LARGE DIA	100	0.30	0.05	0.50 x 0.10	0.30				
	150	0.30	0.08	0.50 x 0.15	0.45				
	200	0.30	0.13	0.65 x 0.20	0.60				
	250	0.35	0.20	0.80 x 0.25	0.75				

### TYPICAL THRUST BLOCK ARRANGEMENTS

#### REVISIONS

DRAWING NUMBER:  
**SD W1**



IMBRUIM JELLYFISH FLITER - JF4  
N/S



CTB: --  
FILE: v:\09\09\02\04\03\0502 8480\_135-135 pipe development phase 2\civil\img\production\phase 2 - shelter - 03.dwg  
PLOTTED: 2025-08-21 - 7:57 AM

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1	2025-08-20	RE-ISSUED FOR DEVELOPMENT PERMIT	VKQ	VKQ	JCS	
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REV	DATE	DESCRIPTION	DES	DRW	CHK	

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