

PRELIMINARY
NOT FOR CONSTRUCTION
INFORMATION ONLY

TAYLOR MCCALLUM RESERVE

VICTORIA PARK WA

ACTIVE AREA

LANDSCAPE CONTRACT: TOVP12
LANDSCAPE & IRRIGATION WORKS

CLIENT: TOWN OF VICTORIA PARK
ISSUE FOR: **50% DA PACK**
DATE: **FEBRUARY 2024**



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LEGEND

- EXTENT OF WORKS
- SKATEPARK EXTENTS. REFER TO SKATEPARK DRAWINGS
- PUMP TRACK EXTENTS. REFER TO PUMP TRACK DRAWINGS
- WATERCORP EASEMENT
- UNDERGROUND WATERCORP EMERGENCY SEWERAGE TANK
- UNDERGROUND IRRIGATION STORAGE TANK
- CAUSEWAY PEDESTRIAN BRIDGE NOT PART OF THIS WORKS
- PROPERTY BOUNDARY
- EXISTING TREE TO BE RETAINED AND PROTECTED
- EXISTING PATH

REFER TO DWG 301, 401, 501

REFER TO SKATE PARK DRAWINGS

REFER TO PUMP TRACK DRAWINGS

CAUSEWAY PEDESTRIAN BRIDGE - BY OTHERS

UNDERGROUND IRRIGATION STORAGE TANK

REFER TO DWG 302, 402, 502

- STANDARD NOTES**
1. **SET OUT & DIMENSIONS.** THE CONTRACTOR SHALL SET OUT ALL PATHS, WALLS, SURFACES AND ELEMENTS EITHER ON OR OFF SITE PRIOR TO CONSTRUCTION AND SHALL OBTAIN THE SUPERINTENDENT'S SET OUT APPROVAL PRIOR TO WORKS COMMENCING. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. CHECK ALL DRAWING SCALES IN CONJUNCTION WITH DRAWING SIZE.
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 4. **DISCREPANCIES.** NOTIFY SUPERINTENDENT OF ANY SUSPECTED OR KNOWN DISCREPANCIES OR ERRORS PRIOR TO THE ORDERING OF AFFECTED MATERIALS AND/OR CONSTRUCTION OF AFFECTED WORKS.
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B	16.02.24	OW	ISSUE FOR APPROVAL
A	04.12.23	OW	ISSUE FOR APPROVAL

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PROJECT
 TAYLOR MCCALLUM RESERVE
 VICTORIA PARK WA
 STAGE OR PHASE
 ACTIVE AREA

DRAWING TITLE
 OVERALL PLAN

CLIENT
 TOWN OF VICTORIA PARK

DESIGNED BY **ZF** PRELIM DESIGN REVIEWED BY **ZF**
 DRAWN BY **BM** PRELIM DWG REVIEWED BY **ZF**
 DATE INITIALLY DRAWN **24.11.23**

SCALE **1: 500 @ A1** METRES

DRAWING NUMBER **TOVP12-100** REV **A**



- LEGEND**
- EXTENT OF WORKS
 - EXISTING SITE ELEMENTS TO BE REMOVED
 - EXISTING TURF TO BE REMOVED
 - EXISTING SITE INFRASTRUCTURE TO BE RETAINED AND PROTECTED
 - EXISTING COURTS TO BE RETAINED AND RE-SURFACED
 - PROPERTY BOUNDARY
 - EXISTING TREE TO BE RETAINED AND PROTECTED
 - EXISTING TREES ON SITE TO BE REMOVED AND STORED ON SITE FOR RE-USE ON WORKS

- STANDARD NOTES**
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PROJECT
TAYLOR MCCALLUM RESERVE VICTORIA PARK WA
 STAGE OR PHASE
ACTIVE AREA

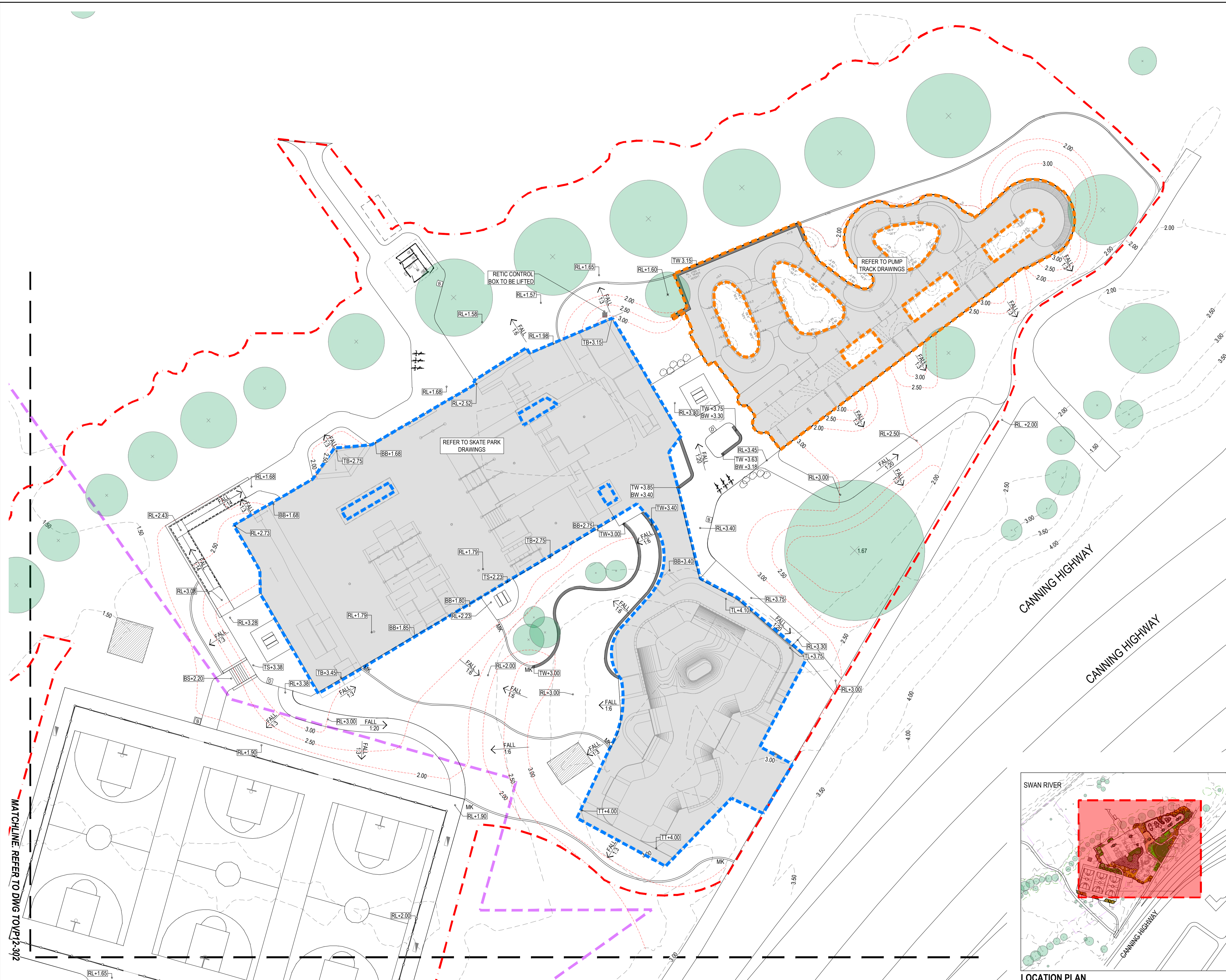
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CLIENT
TOWN OF VICTORIA PARK

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SCALE **1: 500 @ A1** METRES

DRAWING NUMBER **TOVP12-101** REV **A**



LEGEND

- EXTENT OF WORKS
- WATERCORP EASEMENT
- - - - - EXISTING CONTOURS
- - - - - PROPOSED CONTOURS
- RL 0.00 SPOT LEVELS
- TW 0.00 WALL SPOT HEIGHTS
- TS 0.00 LEVEL AT TOP OF STAIR
- BS 0.00 LEVEL AT BOTTOM OF STAIR
- EXISTING TREE TO BE RETAINED AND PROTECTED

- STANDARD NOTES**
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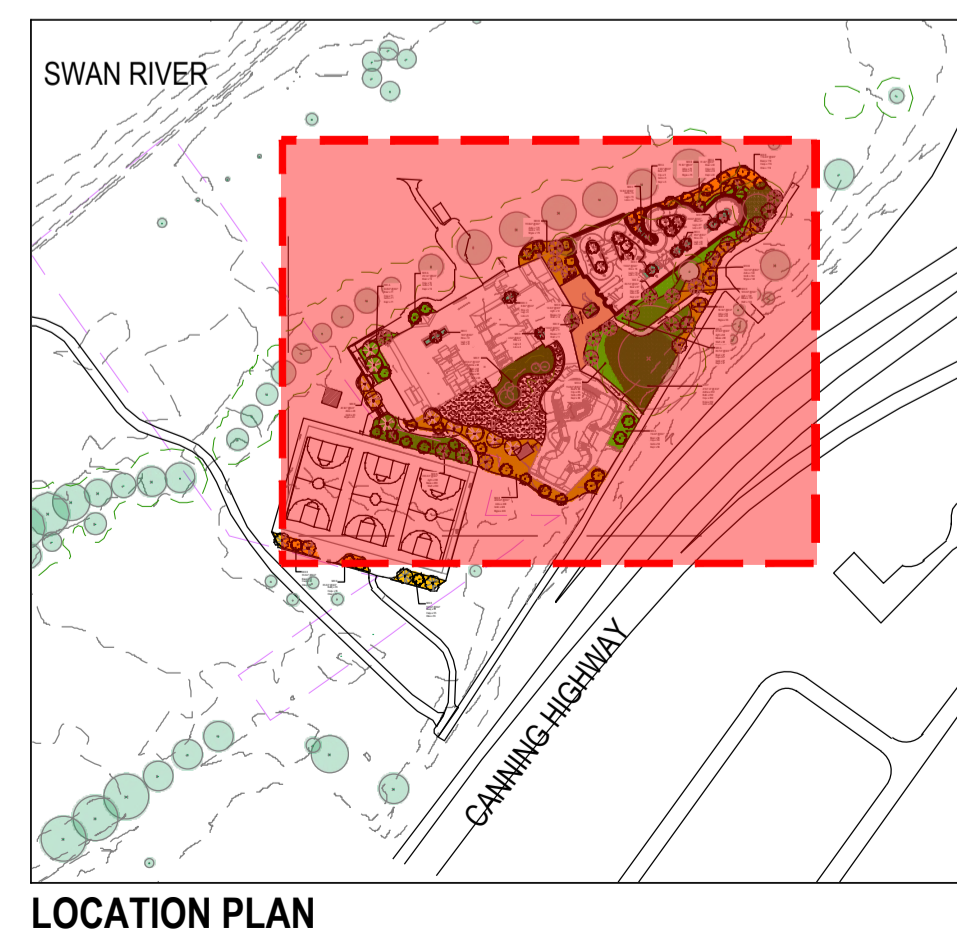
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MATCHLINE REFER TO DWG TOVP12-302



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DRAWING TITLE
 GRADING PLAN 1 OF 2

CLIENT
 TOWN OF VICTORIA PARK

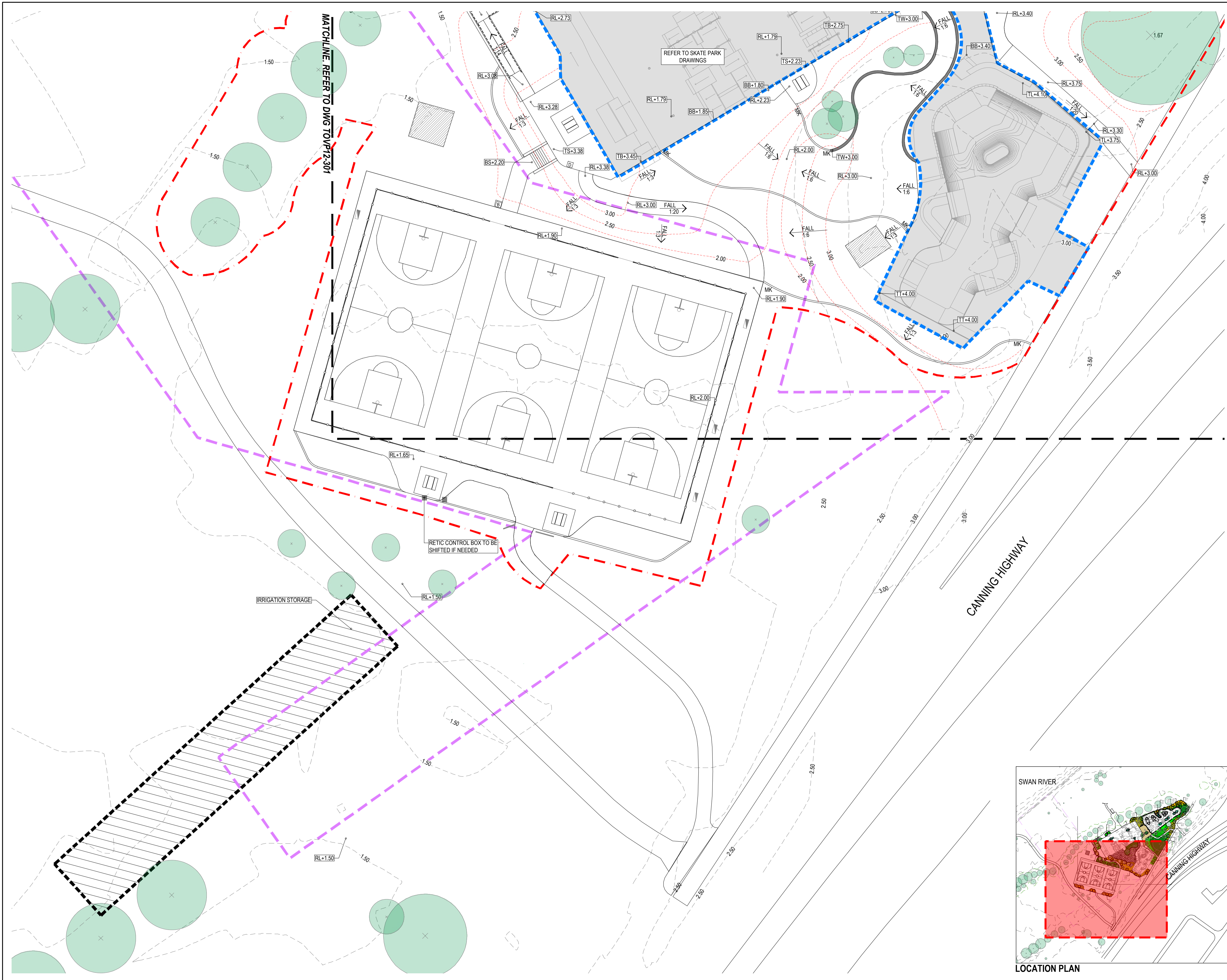
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 DATE INITIALLY DRAWN 24.11.23

SCALE 1: 250 @ A1 METRES

DRAWING NUMBER TOVP12-301

REV A



LEGEND

- - - EXTENT OF WORKS
- - - WATERCORP EASEMENT
- - - EXISTING CONTOURS
- - - PROPOSED CONTOURS
- RL 0.00 SPOT LEVELS
- TW 0.00 WALL SPOT HEIGHTS
- BW 0.00
- TS 0.00 LEVEL AT TOP OF STAIR
- BS 0.00 LEVEL AT BOTTOM OF STAIR
- EXISTING TREE TO BE RETAINED AND PROTECTED

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PROJECT
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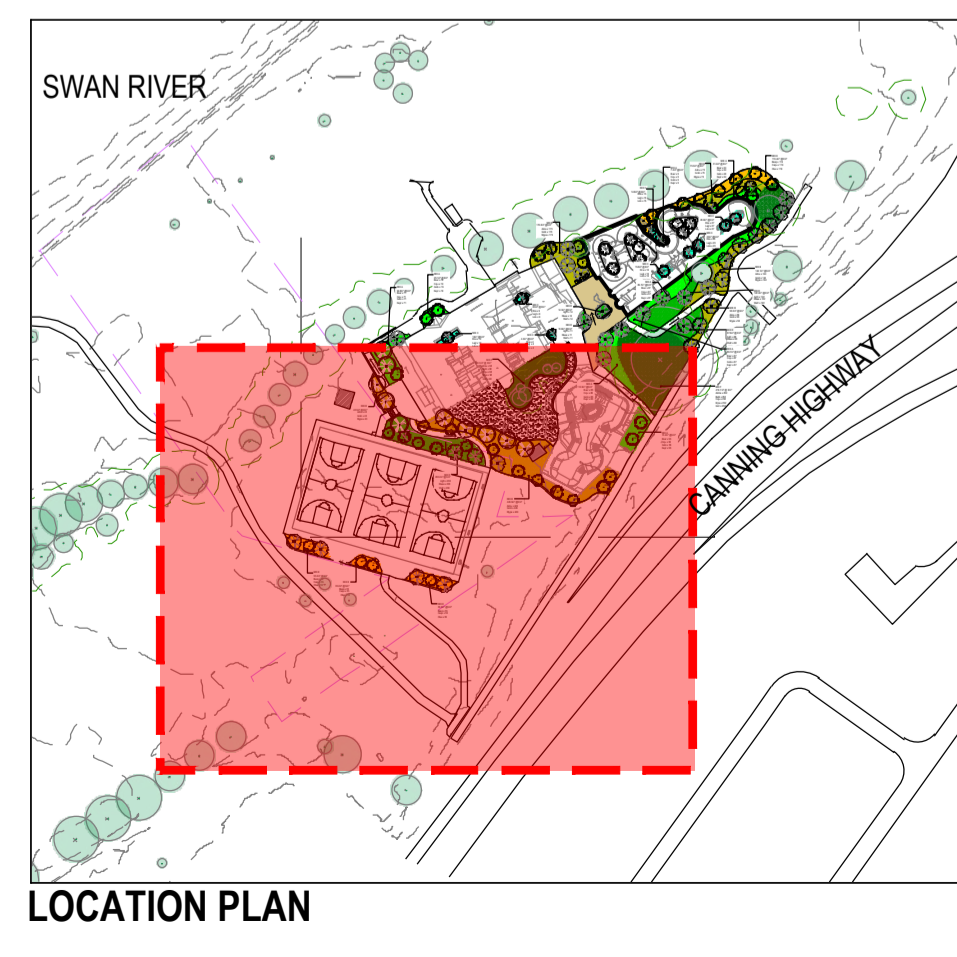
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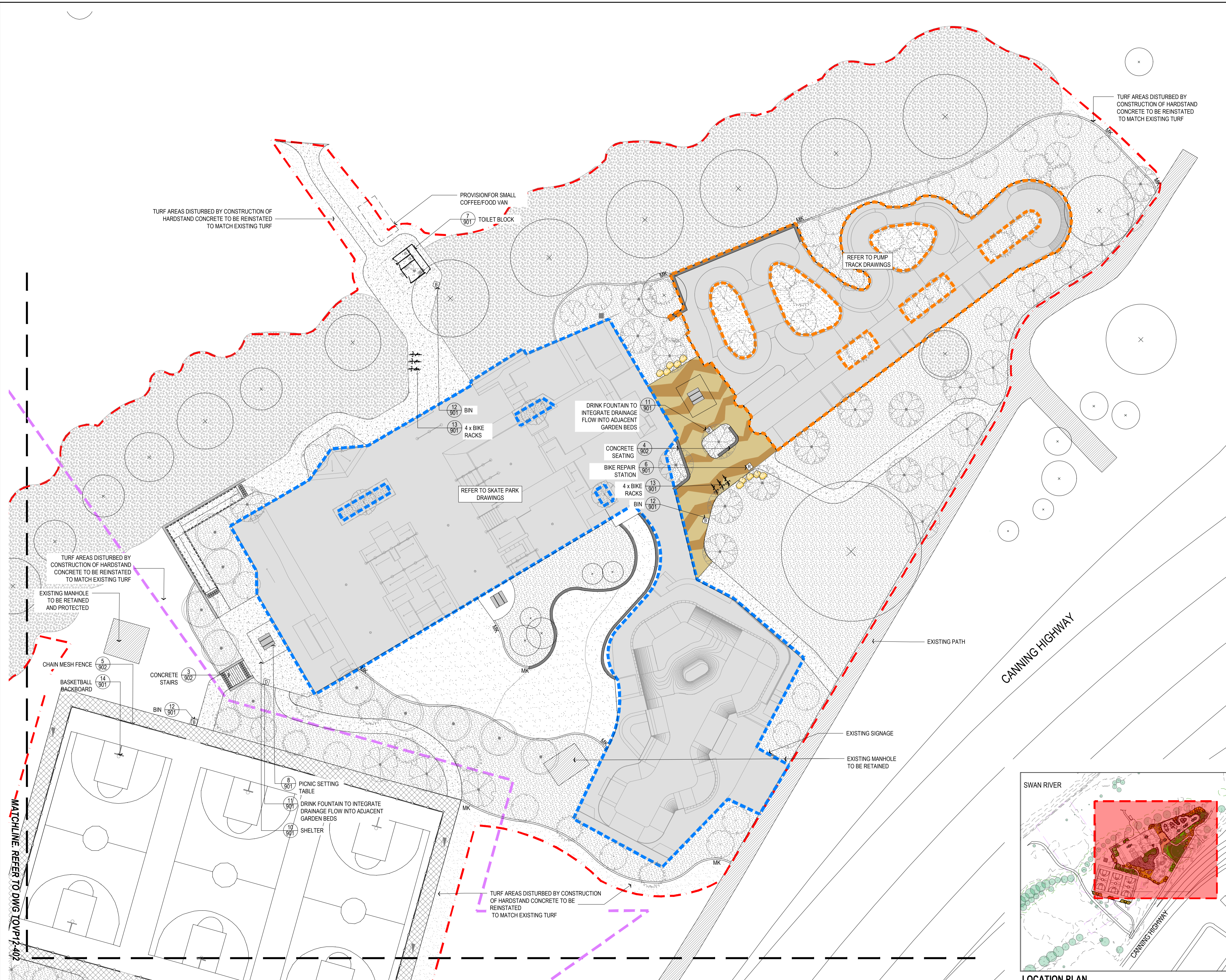
CLIENT
TOWN OF VICTORIA PARK

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SCALE **1: 250 @ A1** METRES

DRAWING NUMBER **TOVP12-302** REV **A**





LEGEND

- EXTENT OF WORKS
- SKATE PARK EXTENT OF WORKS
- PUMP TRACK EXTENT OF WORKS
- EXISTING FOOTPATH
- CONCRETE PATH
- PERMEABLE CONCRETE
- HARDSTAND TYPE 1 - CCS CANVAS
- HARDSTAND TYPE 2 - CCS ECHIDNA
- CONCRETE WALL
- RECONSTITUTED LIMESTONE WALL
- PROPOSED PLANTING
- MULCH ONLY
- TURF
- HANDRAIL
- BIKE REPAIR STATION
- DRINK FOUNTAIN
- BIN
- PICNIC SETTING
- TACTILES
- BIKE RACK
- FENCE
- ROCK BOULDERS
- PROPOSED TREES. REFER TO PLANTING PLAN
- EXISTING TREE TO BE RETAINED AND PROTECTED
- EXISTING RETIC CONTROL BOX
- EXISTING LIGHT POLE
- EXISTING MANHOLE
- WATERCORP EASEMENT

- STANDARD NOTES**
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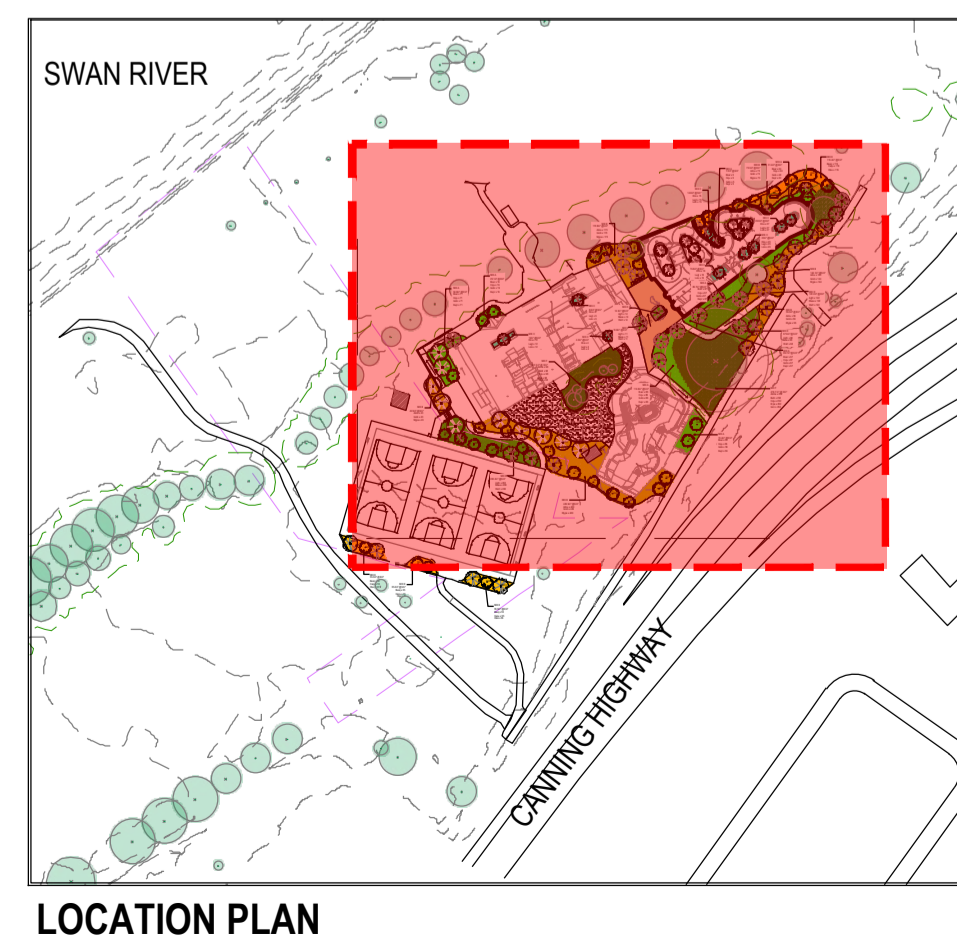
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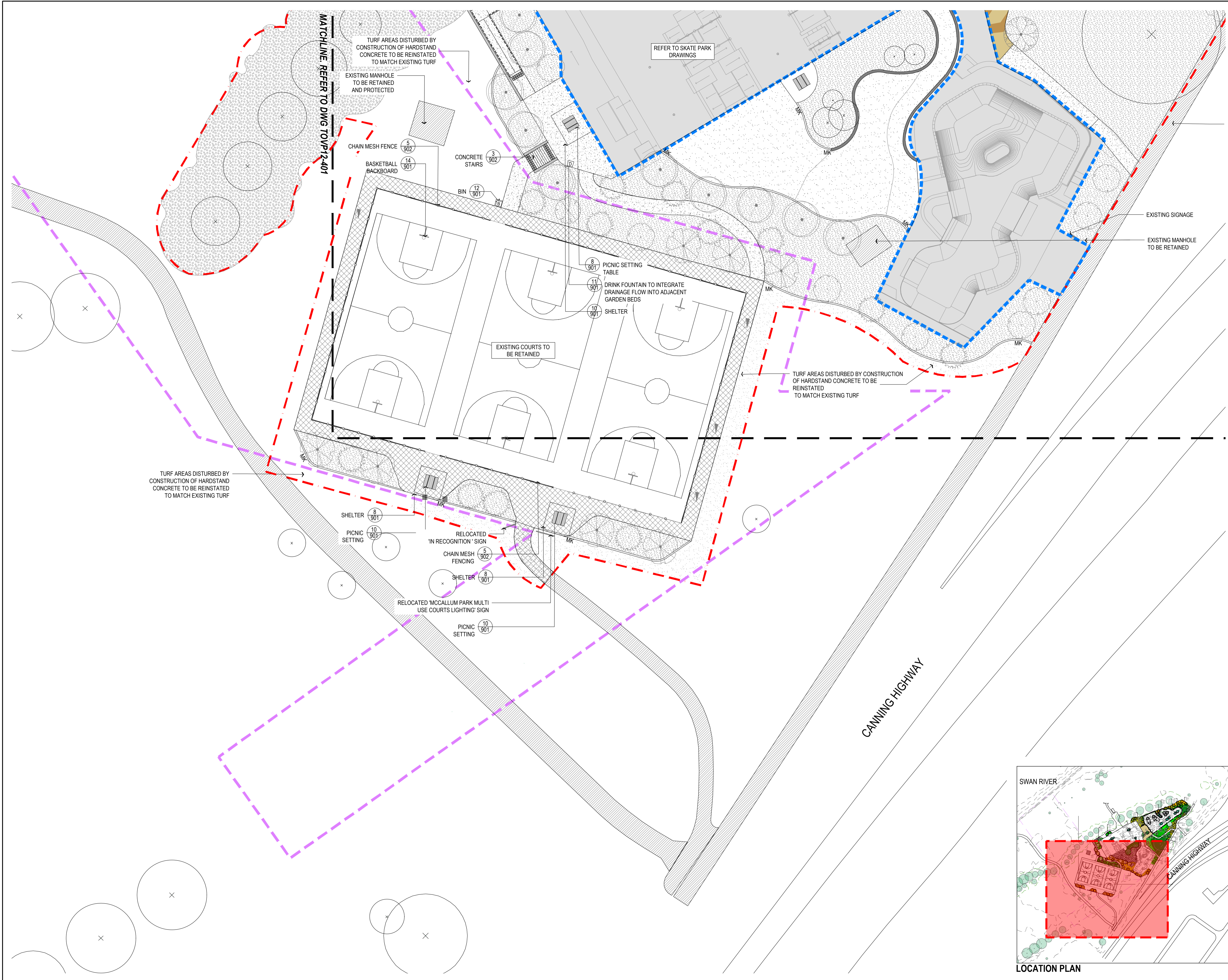
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PROJECT
TAYLOR MCCALLUM RESERVE VICTORIA PARK WA
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LANDSCAPE PLAN 1 OF 2
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 SCALE 1: 250 @ A1 METRES
 DRAWING NUMBER **TOVP12-401** REV **A**



MATCHLINE REFER TO DWG TOVP12-402



LEGEND

- EXTENT OF WORKS
- SKATE PARK EXTENT OF WORKS
- PUMP TRACK EXTENT OF WORKS
- EXISTING FOOTPATH
- CONCRETE PATH
- PERMEABLE CONCRETE
- HARDSTAND TYPE 1 - CCS CANVAS
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- FENCE
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- EXISTING MANHOLE
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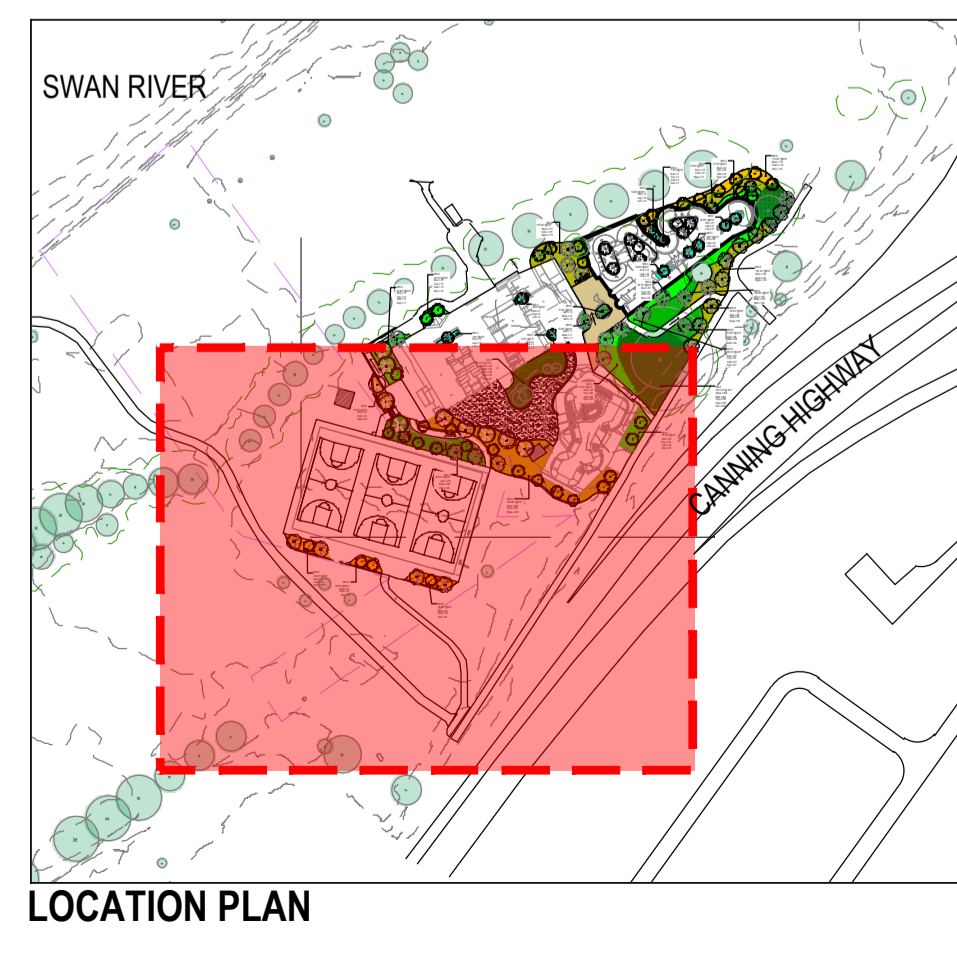
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LANDSCAPE PLAN 2 OF 2

CLIENT
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 DATE INITIALLY DRAWN **24.11.23**

SCALE **1:250 @ A1** METRES

DRAWING NUMBER **TOVP12-402** REV **A**





LEGEND

- EXTENT OF WORKS
- SKATE PARK EXTENT OF WORKS
- PUMP TRACK EXTENT OF WORKS
- PROPOSED PLANTING MIX A
- PROPOSED PLANTING MIX B
- PROPOSED PLANTING MIX C
- PROPOSED PLANTING MIX D
- PROPOSED PLANTING MIX E
- PROPOSED PLANTING MIX F
- PROPOSED TREES
- EXISTING TREE TO BE RETAINED AND PROTECTED
- EXISTING TREE CANOPY LINE

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PROJECT
 TAYLOR MCCALLUM RESERVE
 VICTORIA PARK WA
 STAGE OR PHASE
 ACTIVE AREA

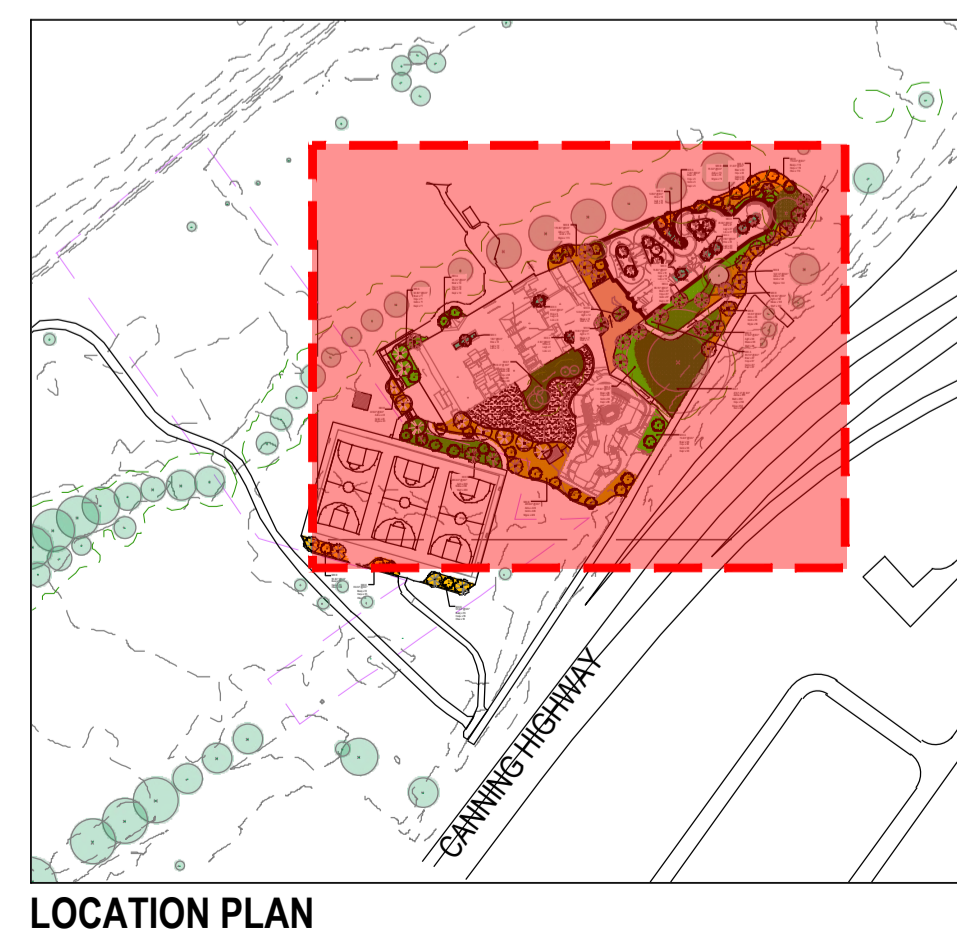
DRAWING TITLE
 PLANTING PLAN 1 OF 2

CLIENT
 TOWN OF VICTORIA PARK

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 DATE INITIALLY DRAWN 24.11.23

SCALE 1: 250 @ A1 METRES

DRAWING NUMBER TOVP12-501 REV A



MATCHLINE REFER TO DWG TOVP12-502

TREE SCHEDULE

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
AGFL	AGFL	Agonis flexuosa	WA Peppermint	100 Litre	18
BAGR	BAGR	Banksia grandis	Coastal Blackbutt	100 Litre	21
CAEQ	CAEQ	Casuarina equisetifolia	Australian pine tree	100 Litre	18
EUGO	EUGO	Eucalyptus gomphocephala	Marri	100 Litre	15
MEEEX	MEEEX	Metrosideros excelsa	New Zealand Christmas tree	100 Litre	16
JLPA	JLPA	Ulmus parvifolia	Chinese Elm	100 Litre	10

MIX A

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
Boer	Boer	Bossiaea eriocarpa	Common Brown Pea	140mm	395
Coju	Coju	Conostylis juncea	Cotton Head	140mm	395
Goto	Goto	Gompholobium tomentosum	Hairy Yellow Pea	140mm	395
Kepr	Kepr	Kennedia prostrata	Running Postman	140mm	395

MIX B

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
Adu	Adu	Adenanthos cuneatus	Jug Flower	140mm	947
Grob	Grob	Grevillea obtusifolia	Ging Gin Gem	140mm	947
Mypa	Mypa	Myoporum parvifolium	Creeping Boobialla	140mm	947

MIX C

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
Dire	Dire	Dianella revoluta	Blueberry Lily	140mm	106
Legl	Legl	Lepidosperma gladiatum	Coastal Sword-Sedge	140mm	106
Lolo	Lolo	Lomandra longifolia	Spiny-head Mat-rush	140mm	106

MIX D

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
Agfn	Agfn	Agonis flexuosa 'Nana'	Willow Peppermint	140mm	406
Mese	Mese	Melaleuca serriata	Melaleuca	140mm	406
Wefr	Wefr	Westringia fruticosa	Coastal Rosemary	140mm	406

MIX E

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
Besq	Besq	Beaufortia squarrosa	Sand Bottlebrush	140mm	264
Caqu	Caqu	Calothamnus quadrifidus	One-sided Bottlebrush	140mm	264
Olax	Olax	Oleandra axillaris	Coastal Daisybush	140mm	264

MIX F

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
Adme	Adme	Adenanthos meisneri	Prostrate Woollybush	14 cm	350
Babl	Babl	Banksia blechnifolia	Ground Cover Banksia	14 cm	350
Coju	Coju	Conostylis juncea	Cotton Heads	14 cm	350
Erpa	Erpa	Eremaea pauciflora	Eremaea pauciflora	14 cm	350
Grcr	Grcr	Grevillea crithmifolia	Grevillea	14 cm	350

PLANT AND TREE NUMBERS IN SCHEDULE ARE TO BE USED AS GUIDE ONLY. TENDERERS TO REFER LABELS ON PLANS FOR NUMBERS. PLANT NUMBERS AND SPECIES ARE SUBJECT TO AVAILABILITY.



LEGEND

- EXTENT OF WORKS (Red dashed line)
- SKATE PARK EXTENT OF WORKS (Blue dashed line)
- PUMP TRACK EXTENT OF WORKS (Orange dashed line)
- PROPOSED PLANTING MIX A (Green stippled)
- PROPOSED PLANTING MIX B (Yellow stippled)
- PROPOSED PLANTING MIX C (Light green stippled)
- PROPOSED PLANTING MIX D (Light yellow stippled)
- PROPOSED PLANTING MIX E (Orange stippled)
- PROPOSED PLANTING MIX F (Light green stippled)
- PROPOSED TREES (Circle with cross)
- EXISTING TREE TO BE RETAINED AND PROTECTED (Circle with dot)
- EXISTING TREE CANOPY LINE (Dashed green circle)

- STANDARD NOTES**
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DRAWING TITLE
PLANTING PLAN 2 OF 2

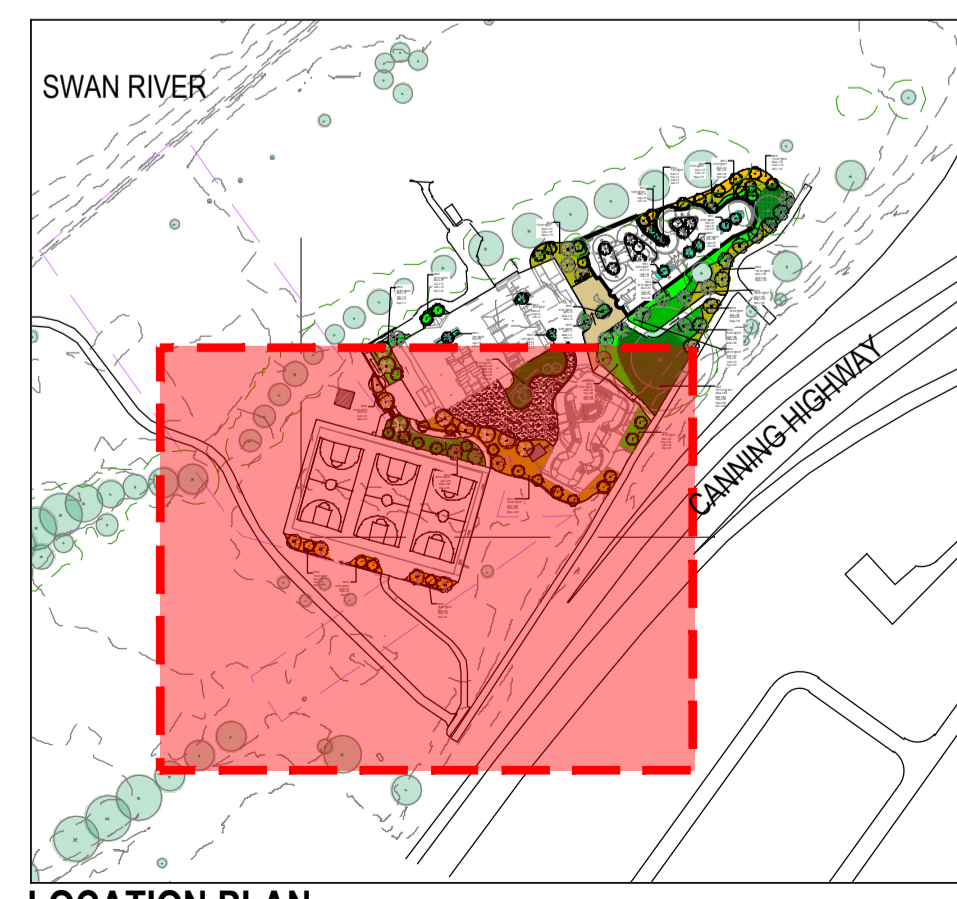
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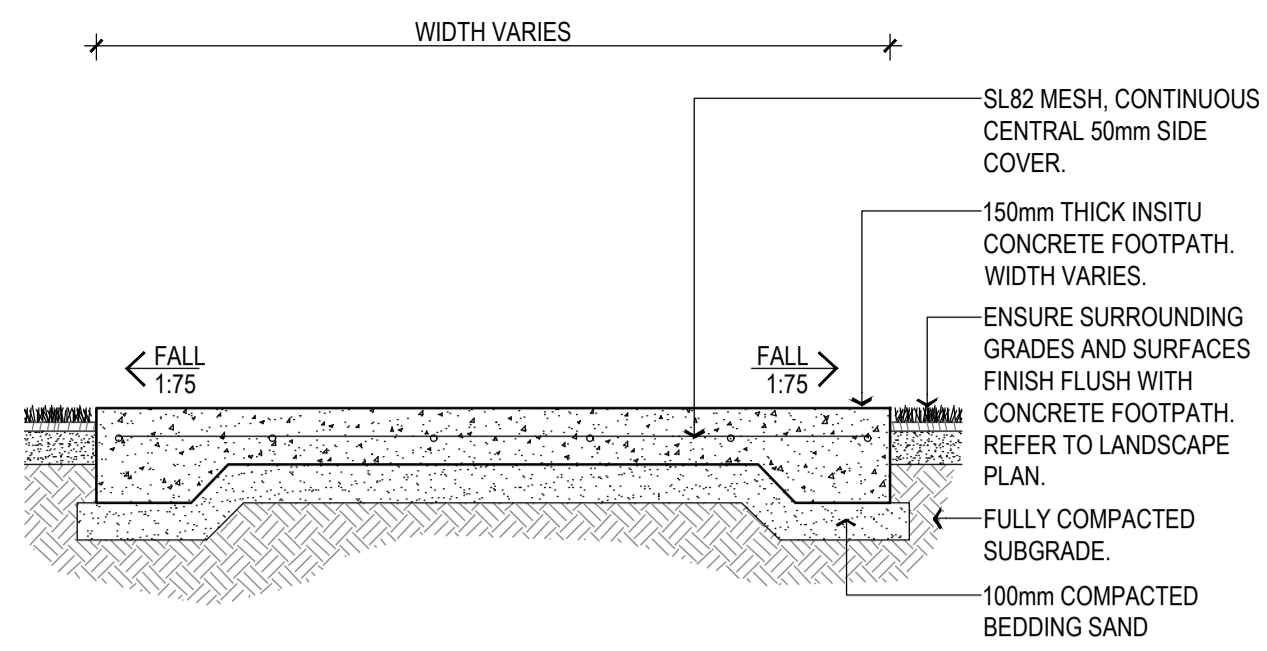
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TOVP12-502

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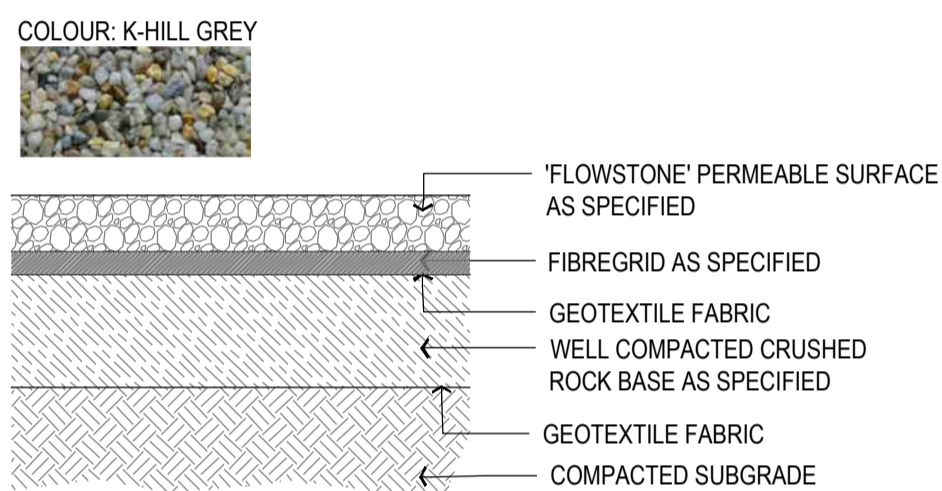


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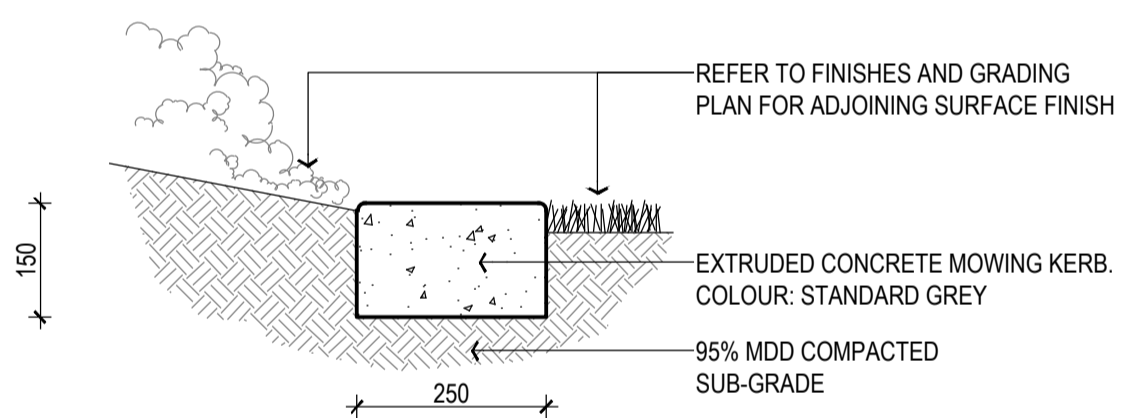
- NOTES**
- FOUNDATION TO BE COMPACTED TO 95% MDD.
 - ALL CONCRETE FOOTPATH CONSTRUCTION TO BE A MIN 25MPa, 20mm AGGREGATE AND MAX SLUMP OF 80-100mm.
 - BEDDING - SAND (100mm MINIMUM).
 - EXPANSION JOINT EVERY 5.0M. SEE DETAIL 4/900
 - CONTRACTION JOINT EVERY 2.5M. SEE DETAIL 5/900
 - SURFACE TO BE BROOM FINISH, NON-SLIP, WITH SMOOTH EDGE APPROX 75mm WIDE AT EDGES AND JOINTS.
 - LONGITUDINAL GRADE SHOULD NOT EXCEED 1 IN 20.
 - WHERE LONGITUDINAL GRADE IS GREATER THAN 1 IN 14, LANDINGS WILL BE PROVIDED EVERY 6m.
 - VERTICAL CLEARANCES ALONG PATHS SHOULD BE A MINIMUM OF 2m.
 - WHERE STREET FURNITURE (POLES, BENCHES, RUBBISH BINS, POSTS, ETC) ARE LOCATED IN PATH, A MIN UNOBSTRUCTED WIDTH OF 1.2m MUST BE MAINTAINED.

1 REINFORCED CONCRETE PATH FOR MAINTENANCE VEHICLE ACCESS
901 SECTION SCALE 1:20



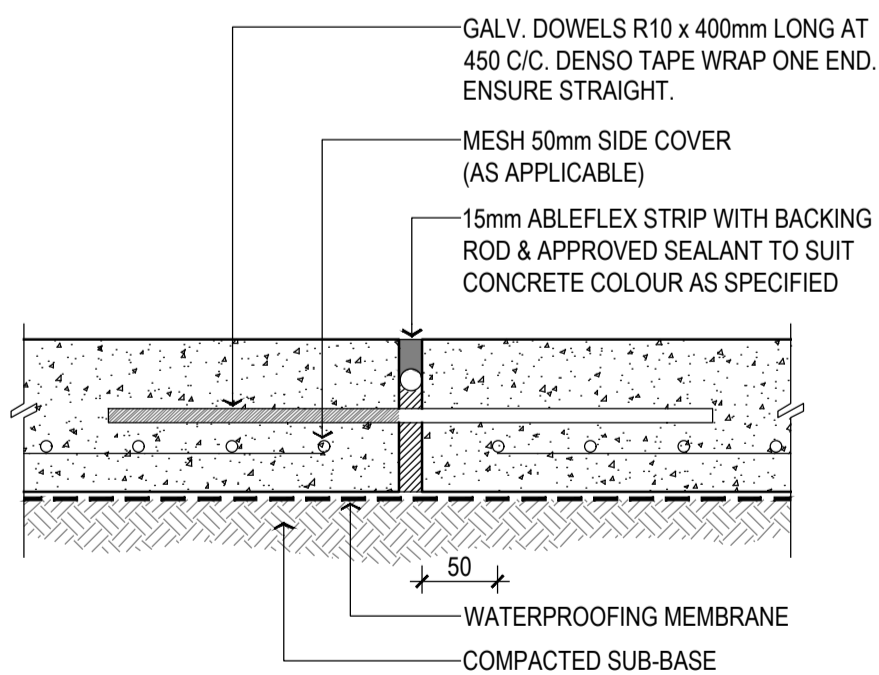
- NOTES:**
- INSTALLATION AS PER MANUFACTURER'S SPECIFICATIONS

2 PERMEABLE PAVING
901 SECTION SCALE 1:10

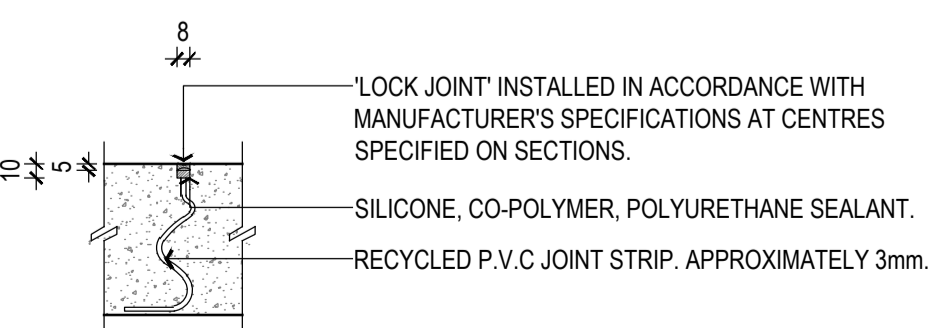


- NOTES:**
- ALL CONCRETE TO BE 32MPa @ 28 DAYS
 - CONTRACTION JOINTS: RULED / STAMPED AT 2.0M INTERVALS
 - EXPANSION JOINTS: 6.0M INTERVALS TO LINE UP WITH FOOTPATH JOINTS.

3 MOWING KERB
901 SECTION SCALE 1:10



4 TYPICAL EDGE DETAIL (NON-TRAFFICABLE)
901 SECTION SCALE 1:5



5 TYPICAL CONTRACTION JOINT
901 SECTION SCALE 1:5



PRODUCT NAME	LEDA BIKE REPAIR STATION
PRODUCT SUPPLIER	LEDA
PRODUCT CODE	BBRS01
PRODUCT FINISH	HDG
PRODUCT COLOUR	STAINLESS STEEL
PRODUCT FIXING	PER MANUFACTURER'S SPEC

6 BIKE REPAIR STATION
901 IMAGE NTS



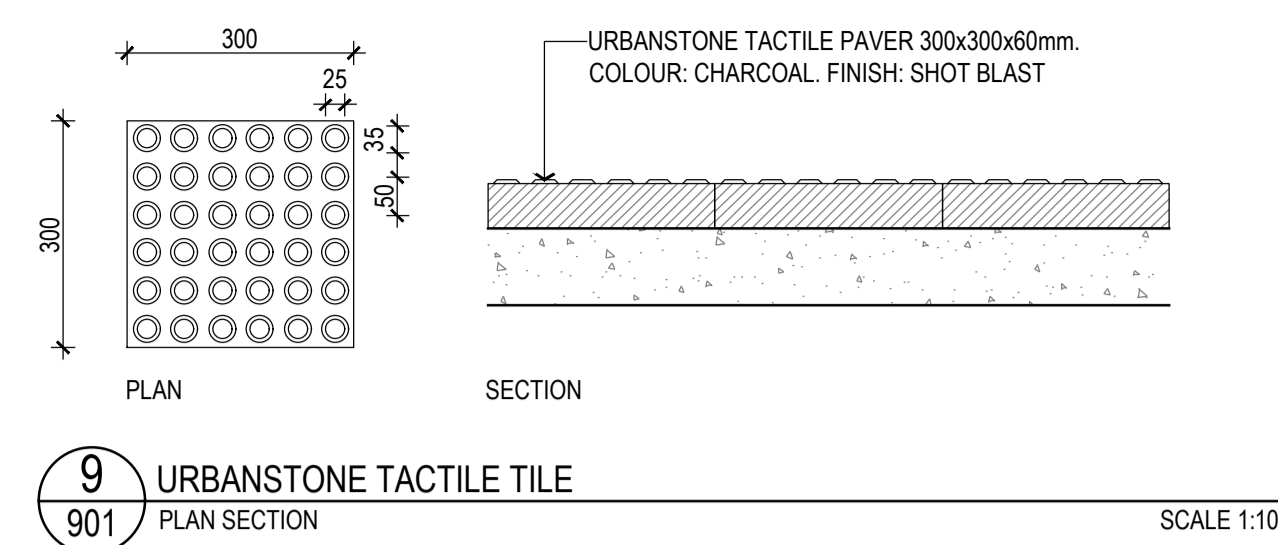
PRODUCT NAME	TOLIET BLOCK LANDMARK
PRODUCT SUPPLIER	LANDMARK
PRODUCT CODE	K9555
PRODUCT FINISH	AS PER MANUFACTURER'S SPECIFICATIONS
PRODUCT COLOUR	AS PER MANUFACTURER'S SPECIFICATIONS
PRODUCT FIXING	AS PER MANUFACTURER'S SPECIFICATIONS

7 TOILET BLOCK
901 IMAGE REFERENCE NTS



PRODUCT NAME	ILLAWARA SHELTER
PRODUCT SUPPLIER	IRONCLAD
PRODUCT CODE	1-4940-2
PRODUCT FINISH	AS PER MANUFACTURER'S SPECIFICATION
PRODUCT COLOUR	POWDER COATED IRONSTONE
PRODUCT FIXING	BELOW GROUND

8 SHELTER
901 IMAGE REFERENCE NTS



PRODUCT NAME	BOARDWALK TABLE STETTING
PRODUCT SUPPLIER	COX URBAN FURNITURE
PRODUCT CODE	TBS 602.A TABLE
PRODUCT FINISH	ALUMINIUM FRAME + RECYCLED PLASTIC BATTEN
PRODUCT COLOUR	MID GREY
PRODUCT FIXING	FIXED TO GROUND

10 SFA DDA TABLE
901 IMAGE REFERENCE NTS



PRODUCT NAME	LISBOA DRINKING FOUNTAIN
PRODUCT SUPPLIER	COMMERCIAL SYSTEMS AUSTRALIA
PRODUCT CODE	DF5200
PRODUCT FINISH	BODY: POWDERCOAT MS FULL 304 SS
PRODUCT COLOUR	TBC BY LA
PRODUCT FIXING	PER MANUFACTURER'S SPEC

11 DRINKING FOUNTAIN DETAIL
901 IMAGE NTS



PRODUCT NAME	240 LT WHEELED LITTERBIN
PRODUCT SUPPLIER	COX URBAN FURNITURE
PRODUCT CODE	URB:EWL 241
PRODUCT FINISH	ALUMINIUM POWDER COATED FRAME
PRODUCT COLOUR	TBC
PRODUCT FIXING	AS PER MANUFACTURER'S SPECIFICATION

12 BIN ENCLOSURE
901 IMAGE NTS



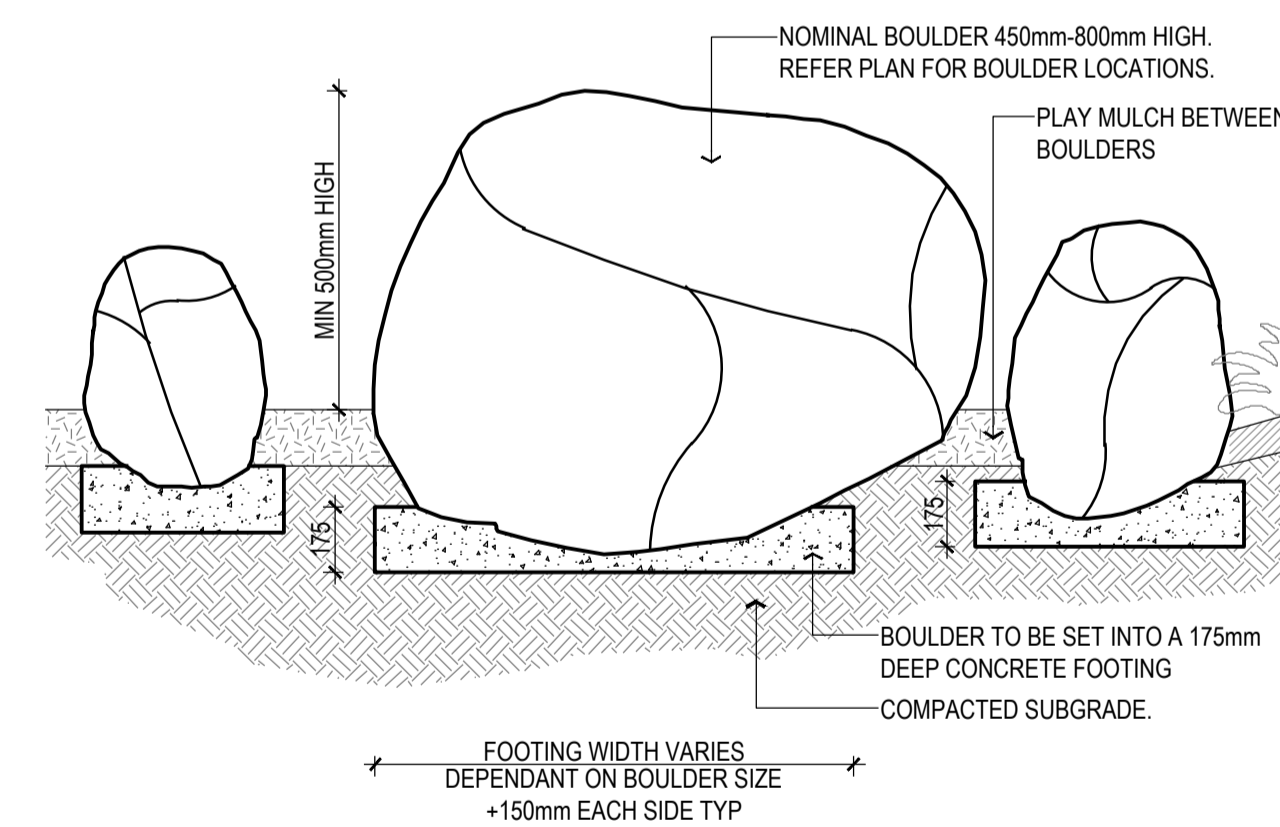
PRODUCT NAME	PLAY BIKE RAIL
PRODUCT SUPPLIER	EXTERIA STREET-PARK OUTFITTERS
PRODUCT CODE	PLAY BIKE RAIL
PRODUCT FINISH	STAINLESS STEEL
PRODUCT COLOUR	BRUSHED FINISHED
PRODUCT FIXING	PER MANUFACTURER'S SPEC

13 BIKE RACK
901 IMAGE NTS



PRODUCT NAME	POLYBOARD BACKBOARD
PRODUCT SUPPLIER	PLAY HARD SPORTS
PRODUCT CODE	B1810P
PRODUCT FINISH	AS PER MANUFACTURER'S SPECIFICATIONS
PRODUCT COLOUR	AS PER MANUFACTURER'S SPECIFICATIONS
PRODUCT FIXING	AS PER MANUFACTURER'S SPECIFICATIONS

14 BASKETBALL BACKBOARD
901 IMAGE NTS



- NOTES**
- LIMESTONE BOULDERS TO BE SOURCED AND INSTALLED. MIN HEIGHT SIZE 450mm - MAX SIZE 800mm.
 - GENERALLY BOULDERS TO BE BURIED APPROX. 1/3 OF EXPOSED HEIGHT AND INSTALLED WITH A MORTAR BED

15 FEATURE BOULDERS
901 SECTION SCALE 1:20

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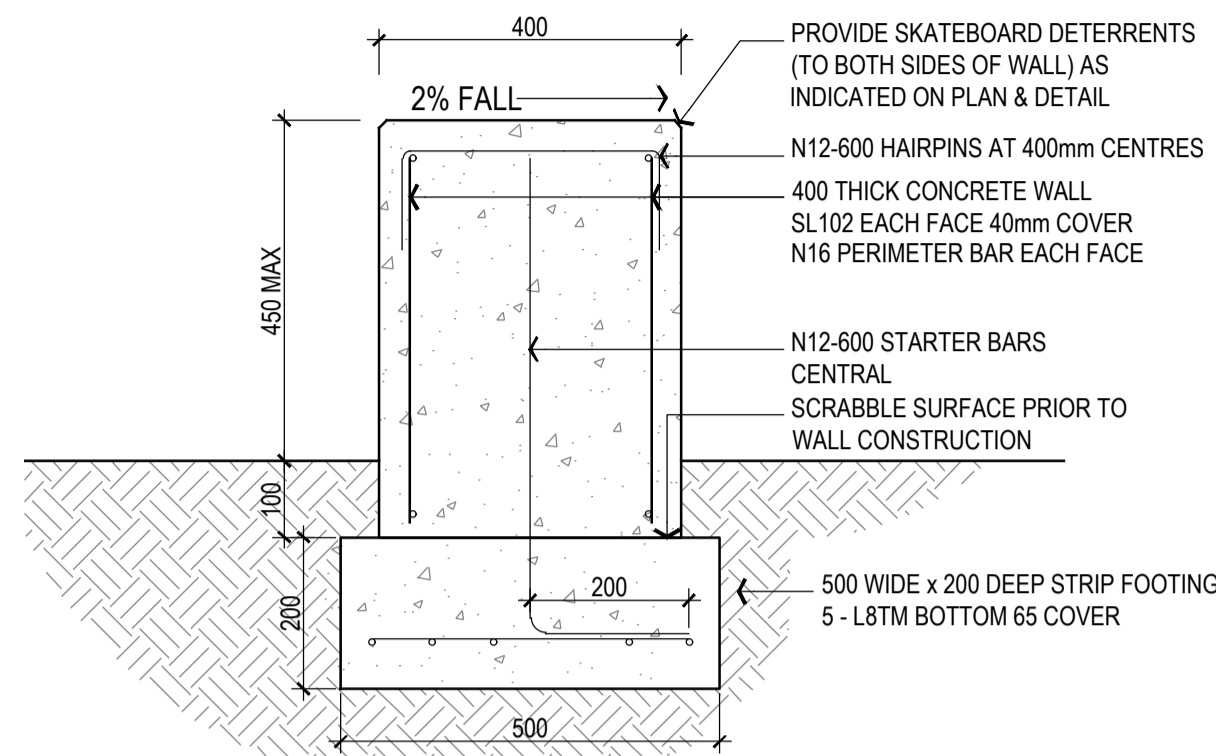
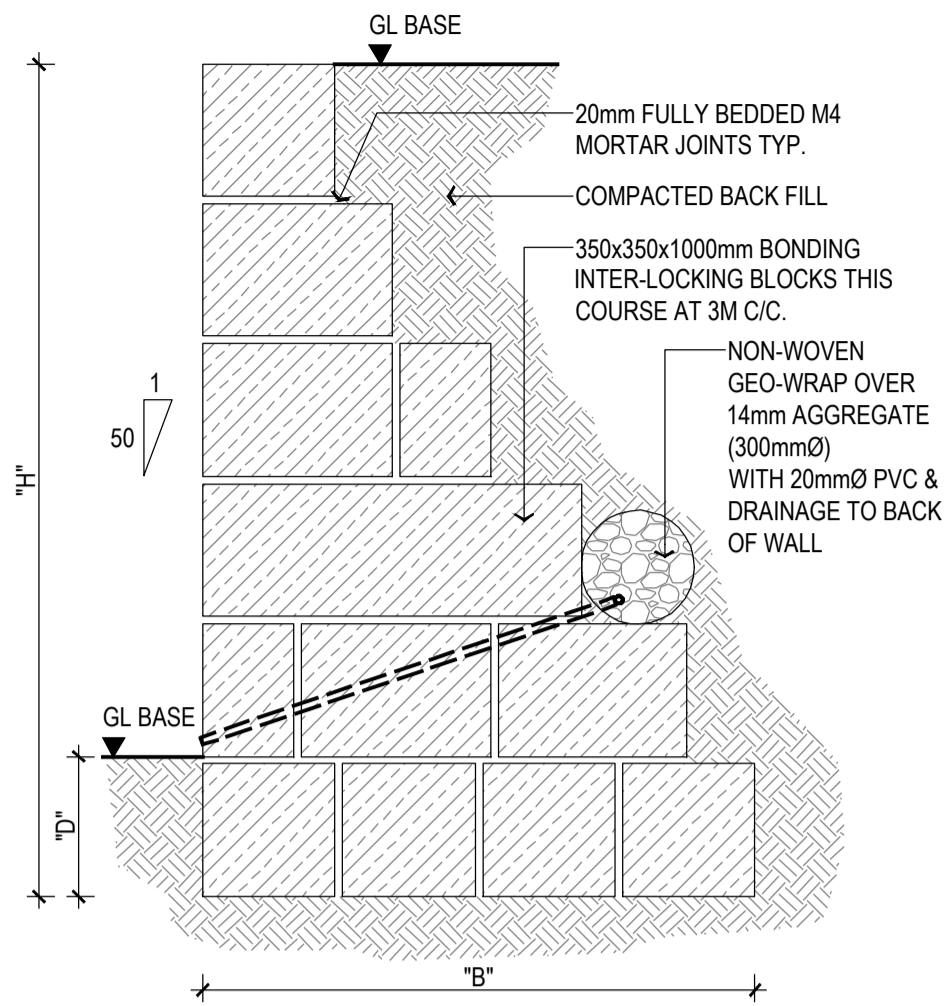
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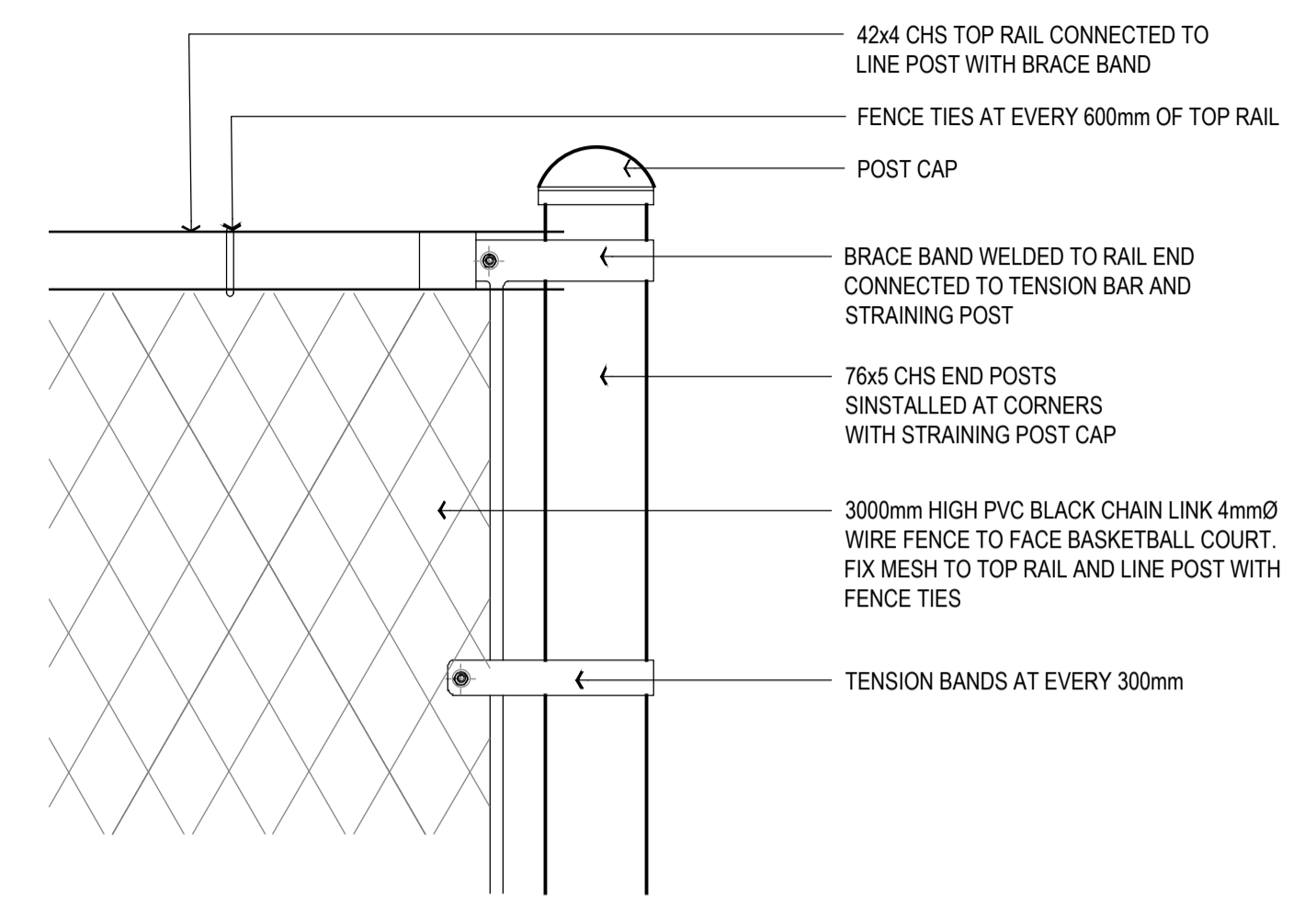
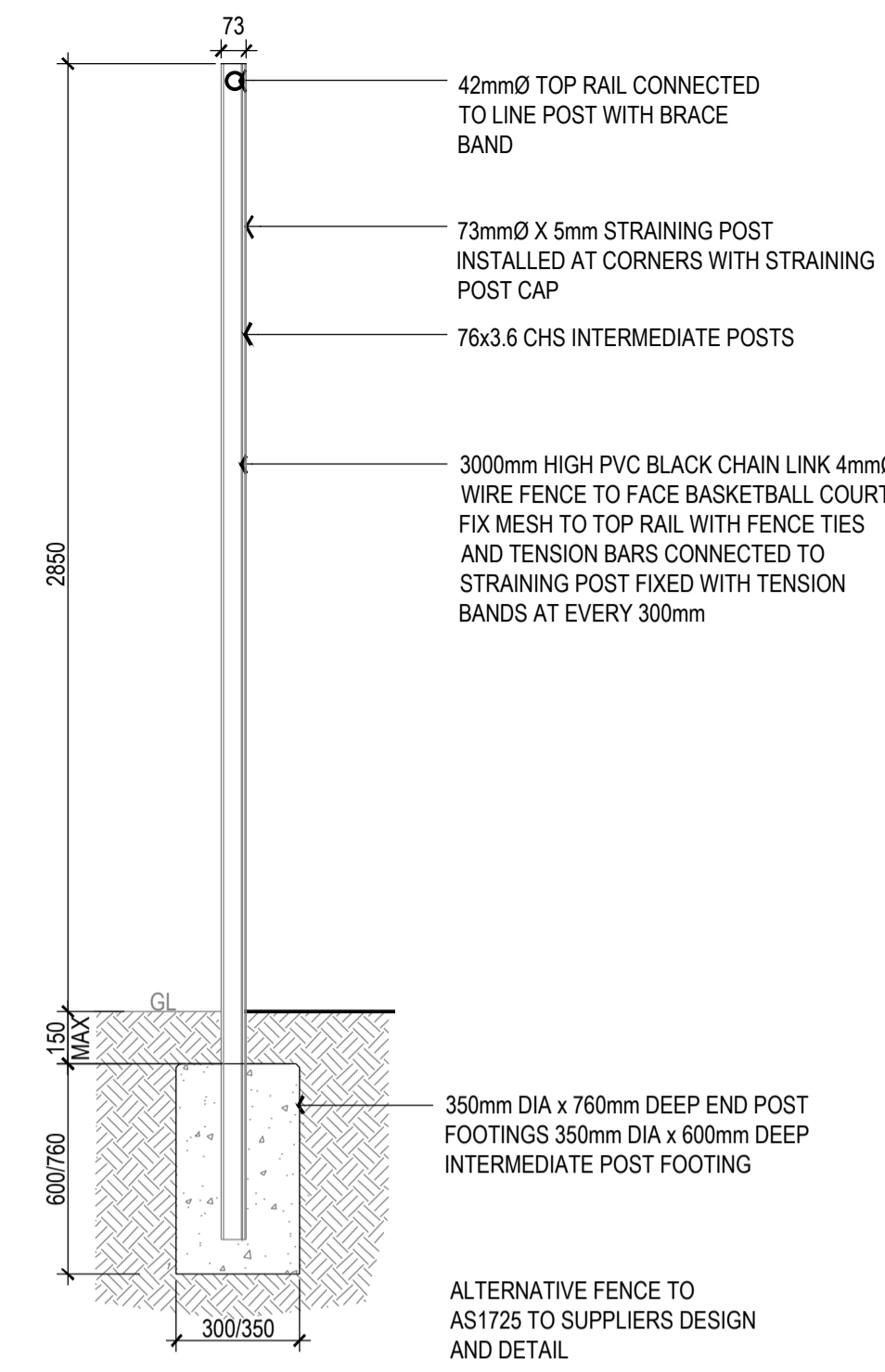
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MINIMUM REQUIREMENTS:			
'H'	'B'	'D'	
0 - 370	250	100	
350 - 700	500	200	
700 - 1050	700	250	
1050 - 1400	1050	300	
1400 - 1750	1050	300	
1750 - 2000	1400	400	
2000 - 2800	1750	500	

- NOTES:
1. COMPACT GROUND UNDER FOOTING TO RESIST 7 BLOWS PER 300mm OF A STANDARD 16mmØ PENETROMETER OVER A DEPTH OF 600mm.
 2. PROVIDE CONTROL JOINTS TO ALL RETAINING WALLS AT 10mm CTS MAX. REFER TO DETAIL 0000.
 3. NO BACKFILLING UNTIL 7 DAYS AFTER WALLS HAVE BEEN BUILT.
 4. THESE WALLS ARE APPLICABLE FOR SANDY SOIL CONDITIONS ONLY. CLAYEY SOILS TO BE REFERRED TO ENGINEER.
 5. HORIZONTAL BACKFILL ONLY TO REAR OF WALL USE RANDOM COURSED BONDED STONE IN 1:CEMENT, 2:LIME, 9:SAND MORTAR. NO RUBBLE FILL PERMITTED.
 6. 'D' TO CONSIST OF COMPACTED SUBGRADE NOT PLAY SAND OR MULCH / ETC.



- CONCRETE WALL NOTES:
1. PROVIDE CONTROL JOINTS IN ALL WALLS AT 8m CTS
 2. WALLS & TOP SLAB TO N32 CONCRETE WITH OFF-WHITE CEMENT
 3. OFF-FORM FINISH TO ALL EXPOSED FACES OF WALLS & SLABS TO BE CLASS 2
 4. 10 x 10mm CHAMFER TO ALL EXPOSED EDGES
 5. ENSURE ALL WALLS PROPPED DURING BACKFILLING & COMPACTION. USE ONLY LIGHT WEIGHT COMPACTION EQUIPMENT

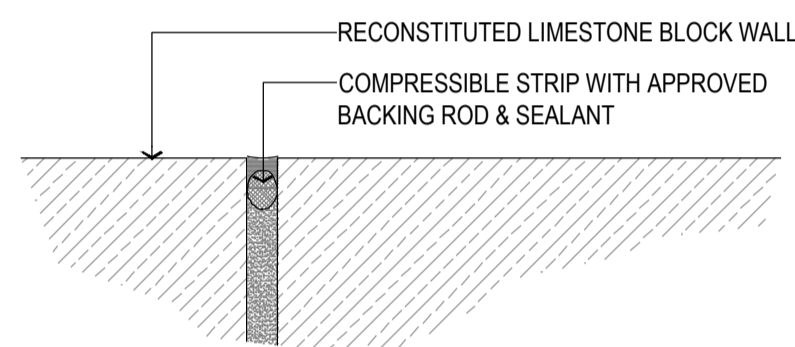


1 902 SECTION SCALE 1:20

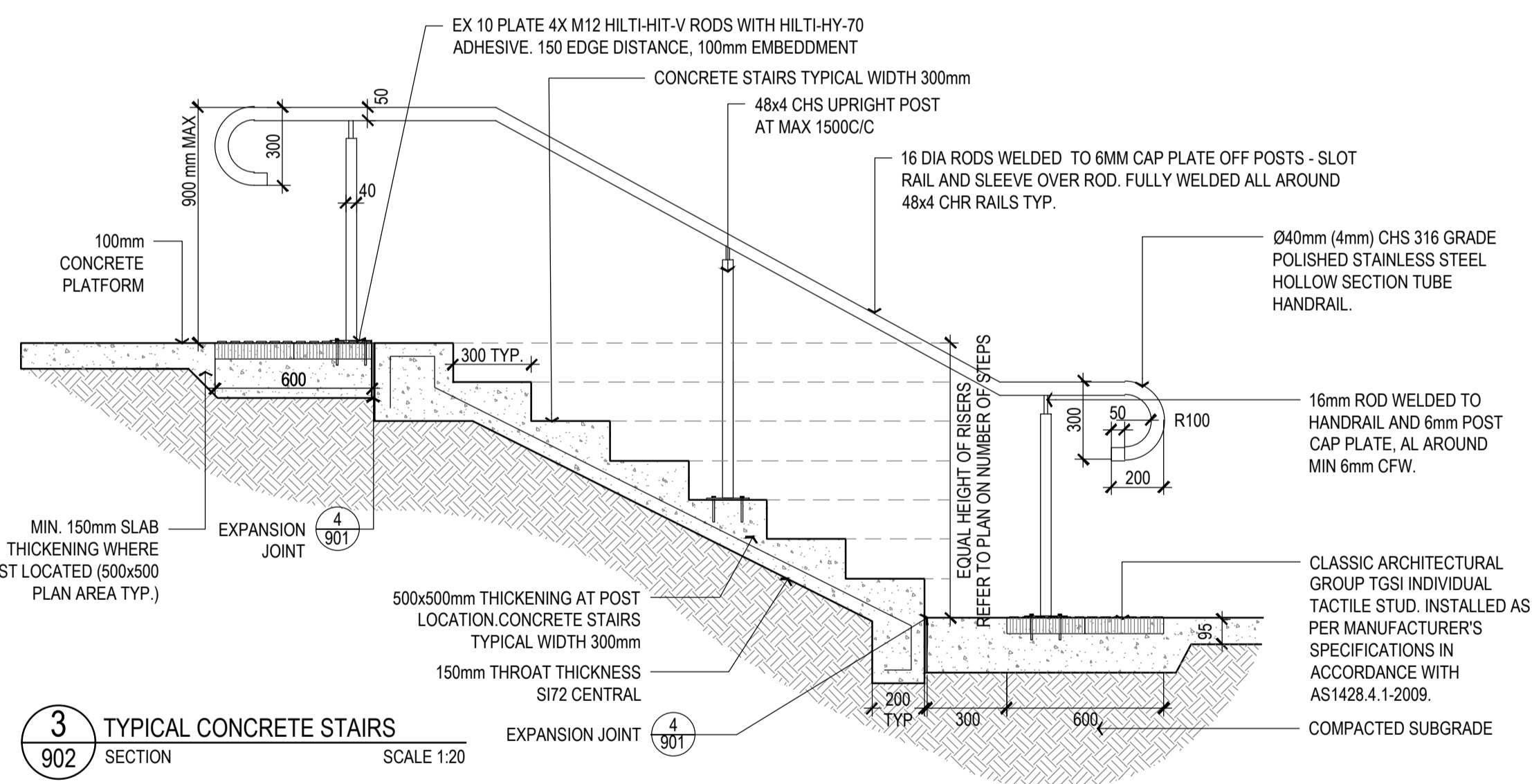
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6 902 SECTION SCALE 1:20

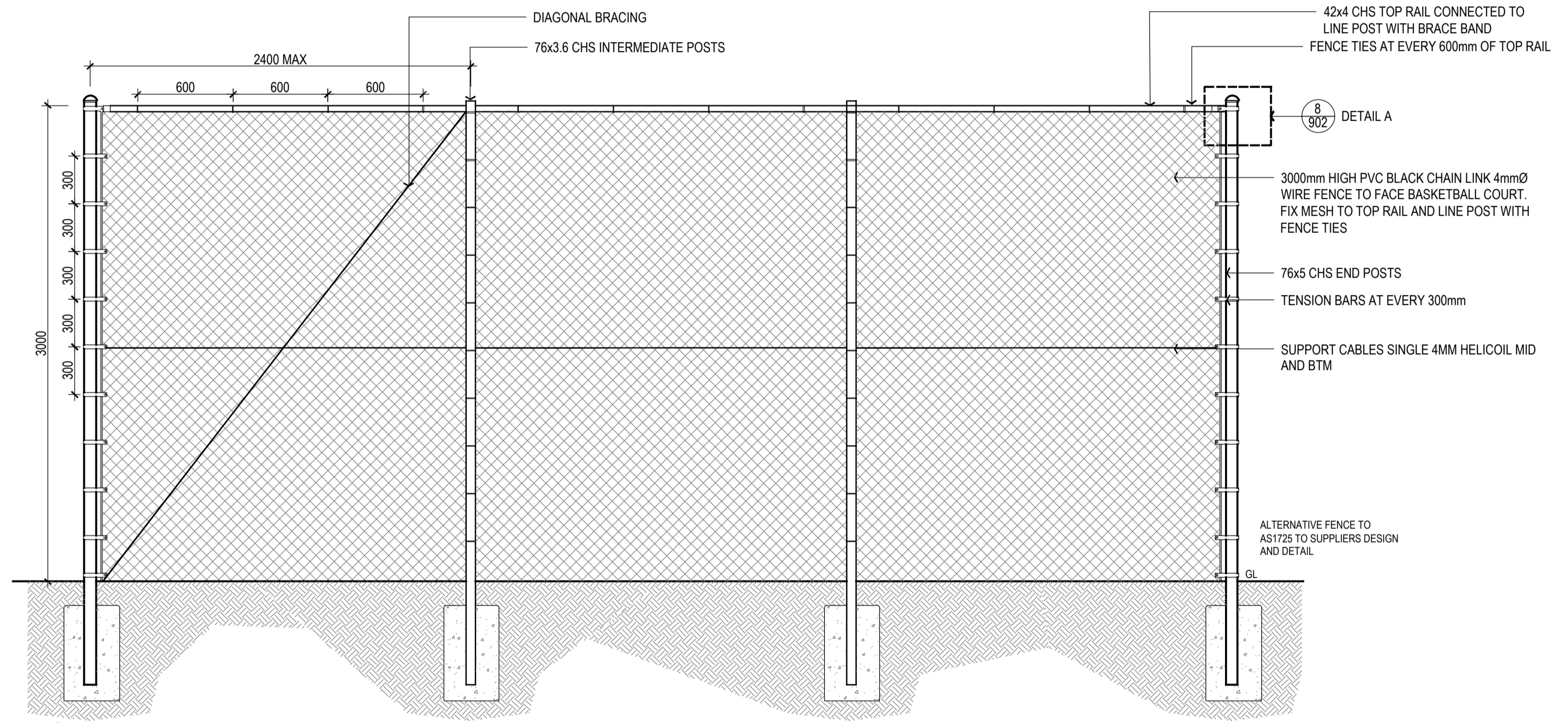
7 902 DETAIL SCALE 1:5



2 902 SECTION SCALE 1:5



3 902 SECTION SCALE 1:20



5 902 ELEVATION SCALE 1:25

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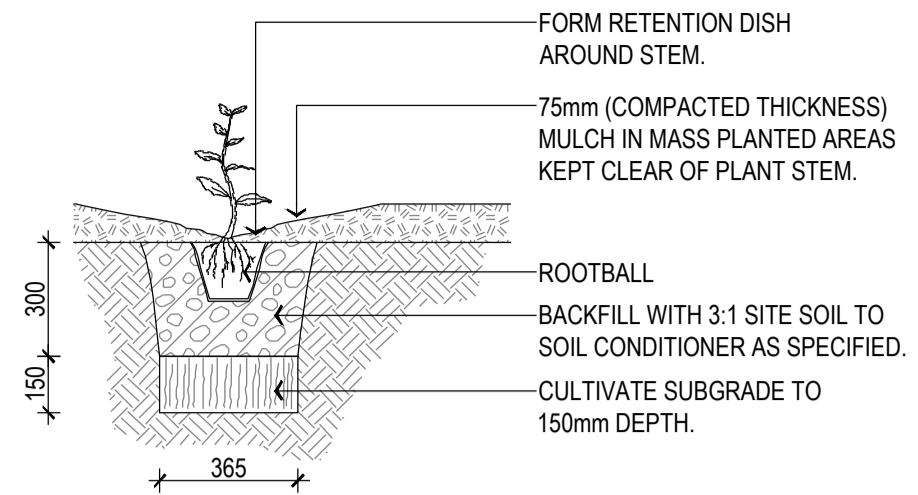
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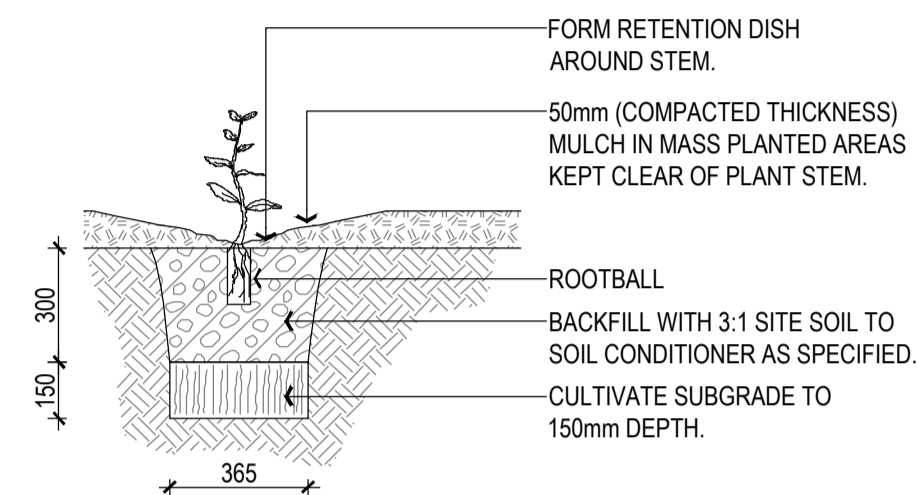
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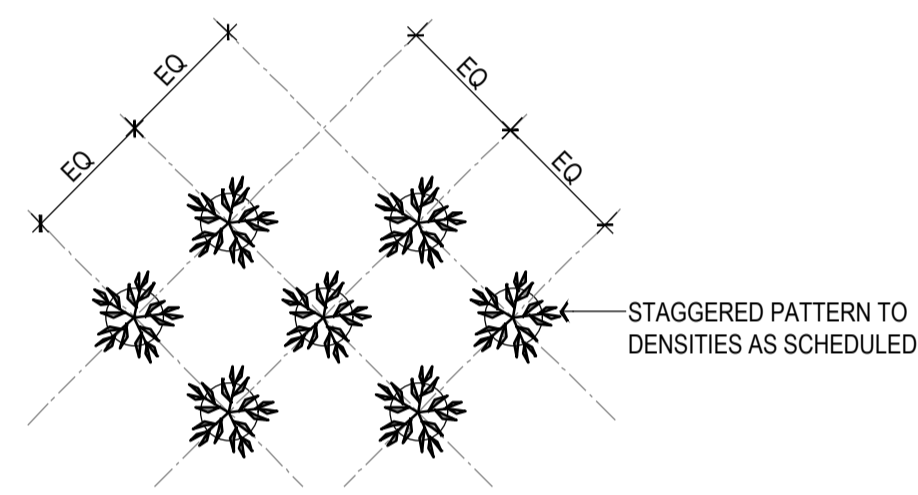
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SCALE AS SHOWN
DRAWING NUMBER TOVP12-902 REV A



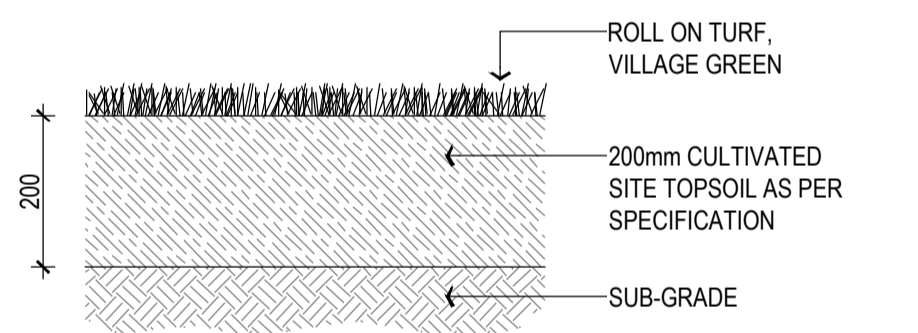
1 140mm - 200mm POT PLANTING SECTION SCALE 1:20



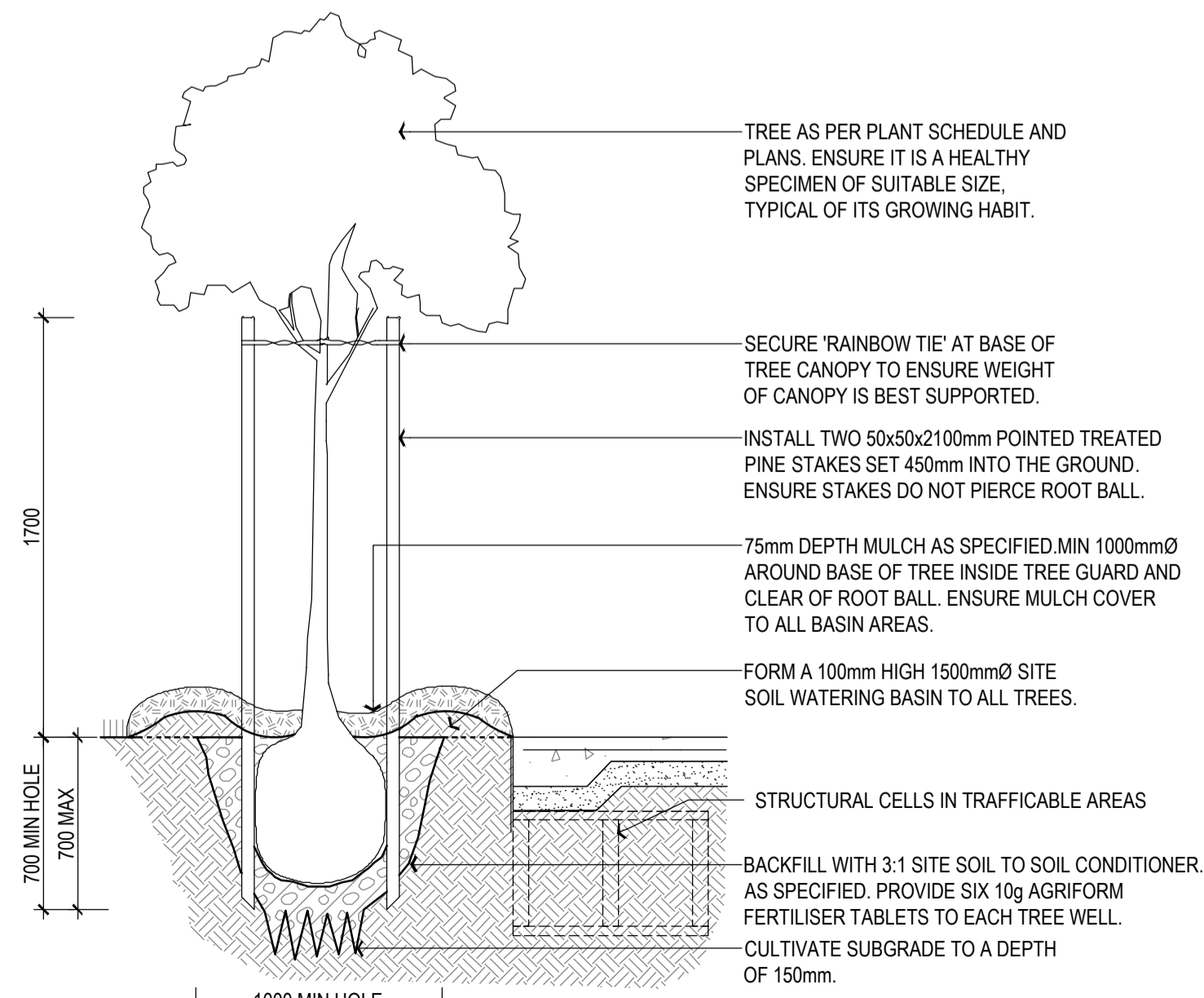
2 TYPICAL TUBESTOCK PLANTING SECTION SCALE 1:20



3 TYPICAL STAGGERED PLANTING PATTERN PLAN SCALE 1:20



4 ROLL-ON TURF AREAS SECTION SCALE 1:10



5 TYPICAL 100 & 200 LITRE TREE PLANTING SECTION SCALE 1:25

GENERAL NOTES

- These drawings are to be read in conjunction with all architectural and other consultants' drawings and specifications and with such other written instructions as may be issued. Any discrepancies shall be referred to the superintendent for clarification before proceeding with work.
- All dimensions are in millimetres and those relevant to setting out (excludes finishes) and offsite work shall be verified by the contractor before construction and fabrication are commenced. The engineer's drawings shall not be scaled.
- All levels and grid co-ordinates are in metres.
- During construction the contractor shall be responsible for maintaining the structure in a stable condition and no part shall be over stressed under construction activities.
- Workmanship and materials shall be in accordance with the current edition of the relevant SAA codes and the by-laws and ordinances of the relevant building authority, except where varied by the contract documents.

DESIGN CRITERIA

- Dead, live, wind and earthquake loads to AS1170.
- Design Wind Speed
Region A
Terrain Category 2.5
Regional Gust Wind Speed = 45m/sec (ULTIMATE LIMIT STATE)
Regional Gust Wind Speed = 37m/sec (SERVICE LIMIT STATE)
- Earthquake
kp = 1.0
Hazard Factor Z = 0.09 (Perth)
- Foundations
Site classification as per provided Golder Geotechnical Report 147643038-001-R-RevA with site earth works and site preparation undertaken as per Section 9.2.1.8 or Geotechnical Report. Maximum Allowable bearing pressure of 150kPa.
- Live Loads
Elevated walkways and play equipment: 4 kPa
Roof construction load: 0.25kPa
Balustrading: 1.5kPa infill (C1/C2 loading as per AS1170.1)

BUILDER NOTE - COMPLIANCE INSPECTIONS

- As part of the building licence for this project, the builder may be required to have the structural engineer certify the completed structure has been built in accordance with the approved drawings & /or with any subsequent written instructions.
- If WA Structural Consulting are to provide this certification, the builder must arrange for WA Structural Consulting to inspect each of the structural items at appropriate stages. These items and stages include, but are not limited to the following:
 - Concrete reinforcement, prior to pouring of concrete in:
 - Footing Excavations
 - Slabs on ground
 - Suspended slabs and beams
 - Concrete columns and walls
 - Retaining walls
 - Structural steelwork prior to any cladding being fixed.
 - Concrete wall panel connections.
- The builder must provide appropriate evidence that the specified concrete has been supplied for each concrete element.
- The builder must provide evidence that the required levels of foundation compaction have been achieved.
- Where a geotechnical engineer has made specific recommendations, evidence that these have been achieved must be provided.
- Unless fees for our inspections and certifications have been previously negotiated with WA Structural Consulting by others, these fees will be the builder's responsibility. It is required that the builder negotiate these fees with the engineer at a tender stage.
- If the builder requires the fabrication drawings to be checked & certified by the project engineer, the costs associated with this will be the builder's responsibility, unless these fees have been previously negotiated with WA Structural Consulting by others. This must be confirmed by the builder.

CONCRETE AND REINFORCEMENT

- All concrete works shall be in accordance with AS3600.
Concrete specification shall be U.N.O.:

Location	FC (MPa)	MAX.AGG SIZE (mm)	SLUMP (mm)
Footings	25	20	65
Pre-cast	32	20	80
Slab on Ground	25	20	65
In Situ Retaining Walls	32	20	60

Cover to Reinforcement shall be:			
Location	Bottom (mm)	Top (mm)	Sides (mm)
Footing	70	50	50
Pre-cast	50	50	50
Slab on Ground	50	40	50
In Situ Retaining Walls	32	20	60

- Reinforcement shall be supported on approved plastic or plastic tipped wire chairs and hold rigidly in position as follows:
 - Bars up to N12 and fabric - 800mm centres
 - Bars N16 and larger - 1200mm centres
 * Welding reinforcement is not permitted unless approved by engineer.
- Construction joints shall be scabbled, cleaned and coated with a cement/water slurry immediately prior to placing concrete.
- Concrete shall be compacted using mechanical vibrators.
- Concrete shall be cured for a minimum of 7 days by flooding, keeping continuously moist, the application of an approved curing compound or by other means approved by the engineer.
- No holes or chases other than those shown on the drawings shall be made unless approved by engineer. Pipework passing through footing beams shall be to the approval of the engineer and shall be wrapped with a compressible material of minimum 6mm thickness.
- Formwork and stripping times shall comply with AS3610. Remove formwork only when concrete has attained its design (f'c) strength unless otherwise instructed by the structural engineer.
- Control, expansion and contraction joints shall be constructed as detailed. Saw cut joints shall be made within 12 hours of concrete placement.
- All mesh to conform with AS1304.
- Reinforcement shall be in accordance with the following standards:

R	Indicates plain reinforcing bar R250N to AS/NZS4671
L	Indicates plain or deformed wire R500L to AS/NZS4671
RL	Indicates deformed rectangular mesh D500L to AS/NZS4671
SL	Indicates deformed square mesh D500L to AS/NZS4671
N	Indicates deformed bars D500N to AS/NZS4671
S	Indicates deformed bars D250N to AS/NZS4671
TM	Suffix indicates trench mesh using deformed bars D500L to AS/NZS4671
- All galvanized items which are cast into concrete are to be passivated in a 0.2% sodium dichromate solution or equivalent.
- All formwork shall be rigidly constructed of approved material. Formwork and supports shall be designed to withstand all possible load combinations during construction.

BAR DIAMETER (LARGEST)	LAP
12	450
16	800
20	1100
24	1500
28	1750
32	2400

NOTE: To be used U.N.O

- Chemset Anchors U.N.O to be M16 HCR 8.8 rods with HILTI-HIT-HY-200 Adhesive minimum 150mm embedment. Installed in accordance with Manufacturers Specification and Installation Procedure.

FOUNDATIONS

- Design is based on an allowable bearing pressure of 150kPa. It is the builder's responsibility to confirm the foundation type prior to commencing construction. Should the foundation type or bearing capacity not satisfy the above criteria the builder shall immediately contact engineer prior to construction proceeding.
- Builder to grub out and remove all organic material and debris from the building platform.
- Any soft areas shall be dug out and replaced with approved non-plastic fill.

- All site preparation works shall be in accordance with Golder Geotechnical Report number 147643038-001-R-RevA Section 9.2.1.8 - Site Preparation with regards to the relevant site.
- All site completion works shall comply with Section 9.2.2 of the above noted Geotechnical Report.
- Ensure a minimum of 8 blows per 300mm is achieved with a calibrated Perth Sand Penetrometer in accordance with AS1289 6.3.3
- The building platform is to be shaped to ensure it drains to its perimeter and that such drainage is taken away from the platform area.
- Footings at the lowest level must be the first footings constructed.
- Located plumbing lines over top of footings and step footings.

MASONRY

- All blockwork and brickwork shall be in accordance with AS3700
- Concrete blocks shall be in accordance with AS2733
- Reinforcement and concrete core filling shall comply with the notes on "concrete and reinforcement".
- Mortar shall be classification M3 or M4 in accordance with AS3700 2.2
- Masonry units shall have a minimum compressive strength of 15MPa.
- As follows:
 - Bond beam reinforcement shall be continuous at intersecting walls and bars anchored and lapped to develop full tensile stress.
 - Support reinforced brick lintels for 14 days minimum.
- Cleanout blocks shall be provided at the base of all cores to be concrete filled. Alternatively the builder shall open such cores for cleaning by an approved method.
- All cores to be concrete filled shall be cleaned out by hosing prior to final setting or mortar at all lifts or by rodding prior to concrete filling.
- Retaining walls shall be fully core filled. Backfill to retaining walls shall not be carried out until 14 days after core filling.
- Provide 10mm stack bonded control joints where shown. Control joint to consist of flexible masonry anchors every 3rd course. Brunswick type MFA 3/3. Apply flexible sealant over backing rod.
- Cross walls shall be fully bonded for the full height of intersecting wall.
- Horizontal chasing is not permitted without written approval from the engineer.
- Lap wires 500mm at splices and around corners and COG 500mm into intersecting walls. 20mm cover to all wires.
- All wires in external face of external leaf to be galvanised to AS/NZS4680.
- Masonry ties are to be provided at no more than 600mm spacing in each direction, and max 300mm from top of wall, side of control joint or perimeter of opening.
- Ties to be grade 316 stainless steel.
- Masonry abutting concrete footings to typically be isolated with 10mm Ableflex expansion foam or similar approved control UNO.

STRUCTURAL STEEL

- All steelwork shall be in accordance with:
 - AS4100 steel structures
 - AS4600 cold formed steel structures
- Fabricator to check all dimensions before cutting materials or manufacturing, fabrication to AS4100 UON. These drawing are to be read in conjunction with the project architectural and other consultants' drawings.
- Unless noted otherwise all steel shall be:
 - AS3678 grade 250 hot rolled plates
 - AS3679 1 grade 300 hot rolled UB, PFC, TFC, TFB, EA, UA and FLATS
 - AS3679 2 grade 300 WB and WC
 - AS1163 grade 250 for circular hollow sections Ø165mm and less
 - AS1163 grade 350 for circular hollow sections larger than Ø165mm and rectangular hollow sections.
 - AS1397 500MPa for 1.2mm thick purins and girts
 - 450MPa for 1.6mm thick purins and girts
 - 450MPa for 1.0 thick CF Channels
 - 450MPa for 1.6mm thick CF Channels
- Galvanising shall be hot dipped to AS/NZS 4680
- Bolts shall be galvanised and of sufficient length to exclude the thread from the shear plane. A suitable washer shall be used under all nuts, when tensioning is specified high strength bolts shall be fully tensioned with load indicating washers to the requirements of AS4100.
- Bolt legend 4.8/6 commercial grade 4.6 bolts snug tightened 8.8/8 high strength grade 8.8 bolts snug tightened 8.8/8 high strength grade 8.8 bolts tensioned bearing connection. 8.8/TF high strength grade 8.8 bolts tensioned friction connection.
 - Unless otherwise specified the following shall apply -
 - Cleats, brackets, stiffeners etc. to be 10mm thick, ex-standard square edge flats U.N.O.
 - Welding to be carried out in accordance with AS/NZS 1554. 1:1995 welding consumables to be E48XX or W50X U.N.O. all welds to be 6MM C/PW SP category U.N.O C/PW to be SP category U.N.O.
 - Inspection to be carried to AS/NZS 1554.1:1995. All G/P/SP welds to be 100% visually scanned. SP welds allow for 25% visual examination U.N.O.
 - 6mm end plates to all hollow sections (seal weld).
 - Bolts to be G 8.8/8
 - Bolt hole clearance 2mm
 - Hold down bolt clearance 4mm
 - Grout - a space for 40mm of 2:1 sand: cement mortar of damp earth consistency under all base plates.
 - Connections - minimum of 2M16 8.8/8 bolts
 - Bracing intersects on centrelines and centre of gravity for angles.
 - Fabricator shall allow for all cleats and other fixings required by the supervisor.
 - All column base plates shall be set on 20mm min. of 1:2 cement and sand grout.
 - Seal all open ends of pipes or RHS members. Grind off all visible welds and brand marks to neat appearance where specified.
 - See below:
 - The contractor shall remain responsible at all times for providing all necessary temporary bracing and other supports during erection, to stabilise the partially constructed building.
 - Particular attention must be paid to the buckling stability of beams and columns prior to the connection of purins, girts, fly braces and other bracing elements.
 - It is the responsibility of the builder to obtain proper technical advice wherever necessary to ensure the partially completed structure is safe from collapse.
 - Treatment:
 - All steel connection plate and bolts to be hot dip galvanize (600 g/sqm)
Holding down bolts - hot dip galvanize (600 g/sqm)
 - Bitumen paint all steelwork for 50mm above ground level / top of footing and 100mm into footing depth with Taubmans Interzone or equivalent

STRUCTURAL TIMBER

- Structural timber shall comply with AS1720 timber structure code.
- All timber to be seasoned F14, class 2, strength group SD5, joint group JD2 and treated to suit note 9 below.
- All timber work to be in accordance with:
 - AS1684 - SAA timber framing code.
 - AS1720 - SAA timber structures code.
- All timber and steel connections to be in accordance with AS1720.
- Ensure no knots or gum veins in timber used.
- Coat all timber in contact with ground with bitumen paint or similar approved.
- All structural details to be confirmed, checked and site measured by builder prior to construction. Report any discrepancies to structural engineer.
- Treatment:
 - H1 - Interior use, above ground.
 - H2 - Interior use, above ground, subject to termites.
 - H3 - Exterior use, above ground, subject to periodic wetting.
 - H4 - Exterior use, in ground, subject to severe wetting.
 - H5 - Exterior use, in ground, with or in fresh water.
 - H6 - Exposed to marine water.
- Required bending stress:
 - MGP10 fb = 16 MPa
 - MGP12 fb = 28 MPa
 - GL17 fb = 42 MPa
 - LVL14 fb = 60 MPa
 - LVL15 fb = 42 MPa
 - LVL16 fb = 99 MPa
- All bolted timber connections to be re-tightened at end of project prior to completion, ensure no splitting of timber occurs.
- All proprietary systems (floor/wall/roofing) to be installed in strict accordance with manufacturer's specifications and details.
- Bush Poles:

- All timber to AS1720.
 - Minimum F11 grade CCA / H4 treated seasoned softwood, S6 strength group.
 - Free from decay, shakes & fractures, resin pockets and surface damage.
 - Heartwood not to exceed 50% of the diameter at each end or be within 35mm from the surface.
- Bitumen paint all steelwork for 50mm above ground level / top of footing and 100mm into footing depth with Taubmans Interzone or equivalent

HDPE DECKING AND BOARDS

All HDPE battens and other HDPE members to be supplied and installed in strict accordance with manufacturers specification.

PRECAST CONCRETE

All precast units shown are for service conditions only. The contractor is responsible for all casting, lifting, transportation and propping requirements and must satisfy himself that they have been constructed to meet the design criteria noted. Any queries regarding precast concrete units shall be flagged during the tender process. If in doubt, ask.

ROPES AND ROPE CARGO NETS:

All ropes and rope cargo nets to be supplied by specialist rope supplier and be designed to support design loads noted. Supplier to provide proposed connection detail of all ropes and rope cargo elements to supporting structures for review and approval. If provided reactions/connections exceed original design intent, some supporting members may be adjusted to suit.

PRELIMINARY
NOT FOR CONSTRUCTION
INFORMATION ONLY

STANDARD NOTES

- SET OUT & DIMENSIONS:** THE CONTRACTOR SHALL SET OUT ALL PATHS, WALLS, MASS SURFACES AND ELEMENTS EITHER ON OR OFF SITE PRIOR TO CONSTRUCTION AND SHALL OBTAIN THE SUPERINTENDENT'S SET OUT APPROVAL PRIOR TO COMMENCING WORKS. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. CHECK ALL DRAWING SCALES IN CONJUNCTION WITH DRAWING SIZE.
- SERVICES & SITE ASSETS:** THE CONTRACTOR SHALL INVESTIGATE THE NATURE AND LOCATION OF ALL EXISTING SERVICES AND RETAINED SITE ASSETS AFFECTED BY THEIR WORKS. FAILURE TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTORS LIABILITIES.
- REFERENCE:** THE CONTRACTOR SHALL REFER TO ALL CONTRACT DOCUMENTS, THE SPECIFICATION AND DRAWINGS PRIOR TO AND DURING THE WORKS.
- DISCREPANCIES:** NOTIFY SUPERINTENDENT OF ANY SUSPECTED OR UNKNOWN DISCREPANCIES OR ERRORS PRIOR TO THE BEGINNING OF AFFECTED MATERIALS AND/OR CONSTRUCTION OF AFFECTED WORKS.
- RELEVANT STANDARDS:** THE CONTRACTOR SHALL UNDERTAKE ALL PRICING AND WORKS IN ACCORDANCE WITH CURRENT INDUSTRY BEST PRACTICE AND ALL RELEVANT AUSTRALIAN STANDARDS.
- SERVICE LOCATOR:** THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG PROCESS PRIOR TO COMMENCING WORKS ON SITE. THE CONTRACTOR SHALL ENGAGE A SERVICE LOCATOR TO MAP THE SPECIFIC LOCATIONS AND DEPTHS OF ALL SERVICES AND ADVISE ALL RELEVANT STAFF AND SUBCONTRACTORS IN WRITING PRIOR TO COMMENCING WORKS ON SITE.

REV	DATE	BY	ISSUE OR AMENDMENT
A	4.12.23	OW	ISSUE FOR APPROVAL

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA

DRAWING TITLE
SOFTWARES DETAILS & NOTES

CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY ZF PRELIM DESIGN REVIEWED BY ZF
DRAWN BY OW PRELIM DWG REVIEWED BY ZF
DATE INITIALLY DRAWN 24.11.23
SCALE AS SHOWN
DRAWING NUMBER TOVP12-903 REV A