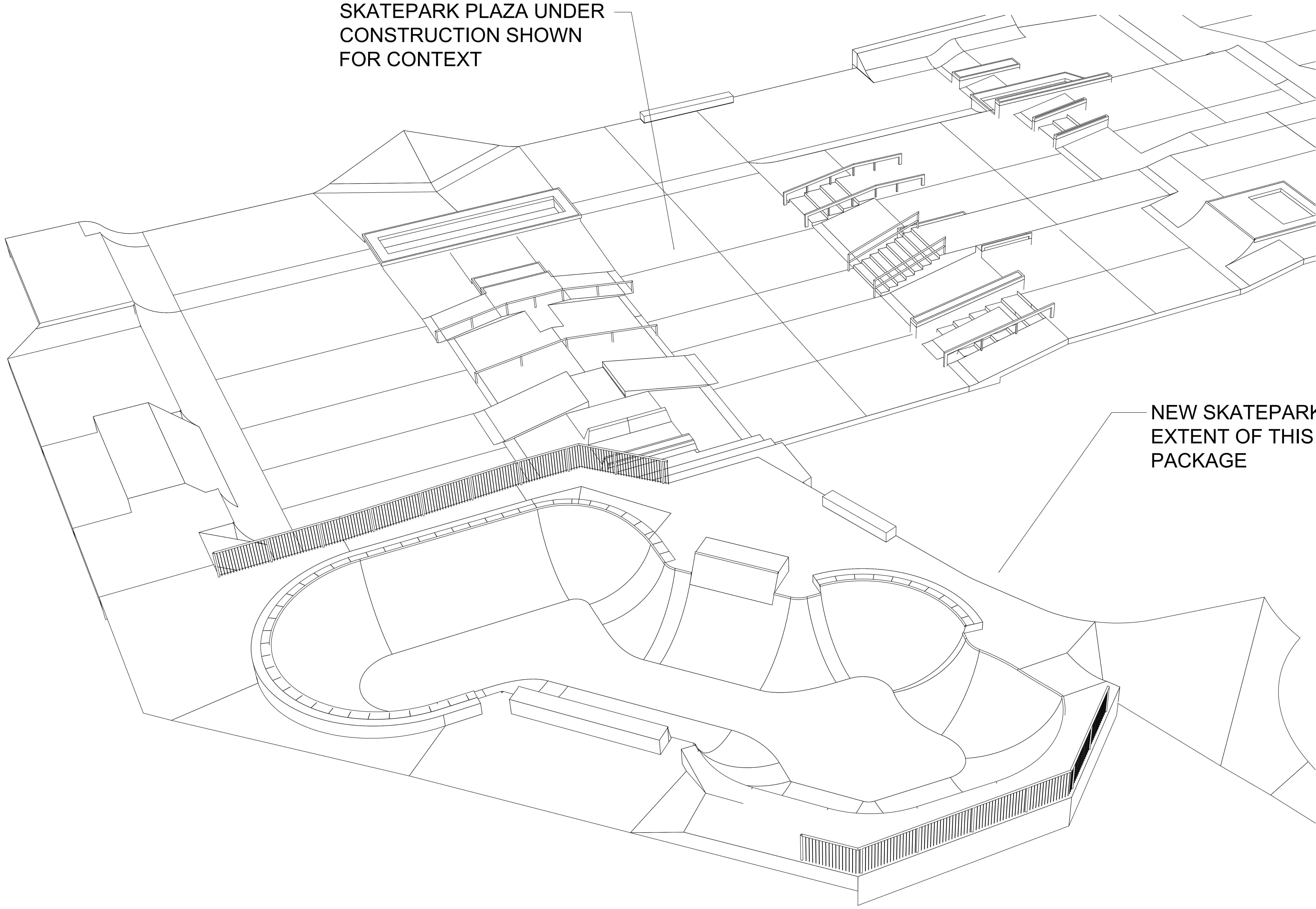
MCCALLUM PARK - SKATEPARK WORKS (BOWL 2 COMPONENT)

ISSUE FOR: IFC

CLIENT: TOWN OF VICTORIA PARK

DRAWING INDEX



LOCATION PLAN

NTS

S240565

SEVRIN CLEMENTS

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STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	20.01.2025	COORDINATION
B	30.01.2025	COORDINATION
C	13.02.2025	PRE IFC REVIEW
D	05.03.2025	IFC
E	12.03.2025	SLABS SHOWN AT 100mm T

SIGNATURE OF AUTHORITY

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PROJECT
McCALLUM PARK (BOWL 2 COMPONENT) SKATEPARK
PROJECT NUMBER

CLIENT / LGA
TOWN OF VICTORIA PARK

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SCALE @ A1:
NA

SKATEPARK COVER PAGE

DRAWING NUMBER:
MP2-SP-CVR

REV
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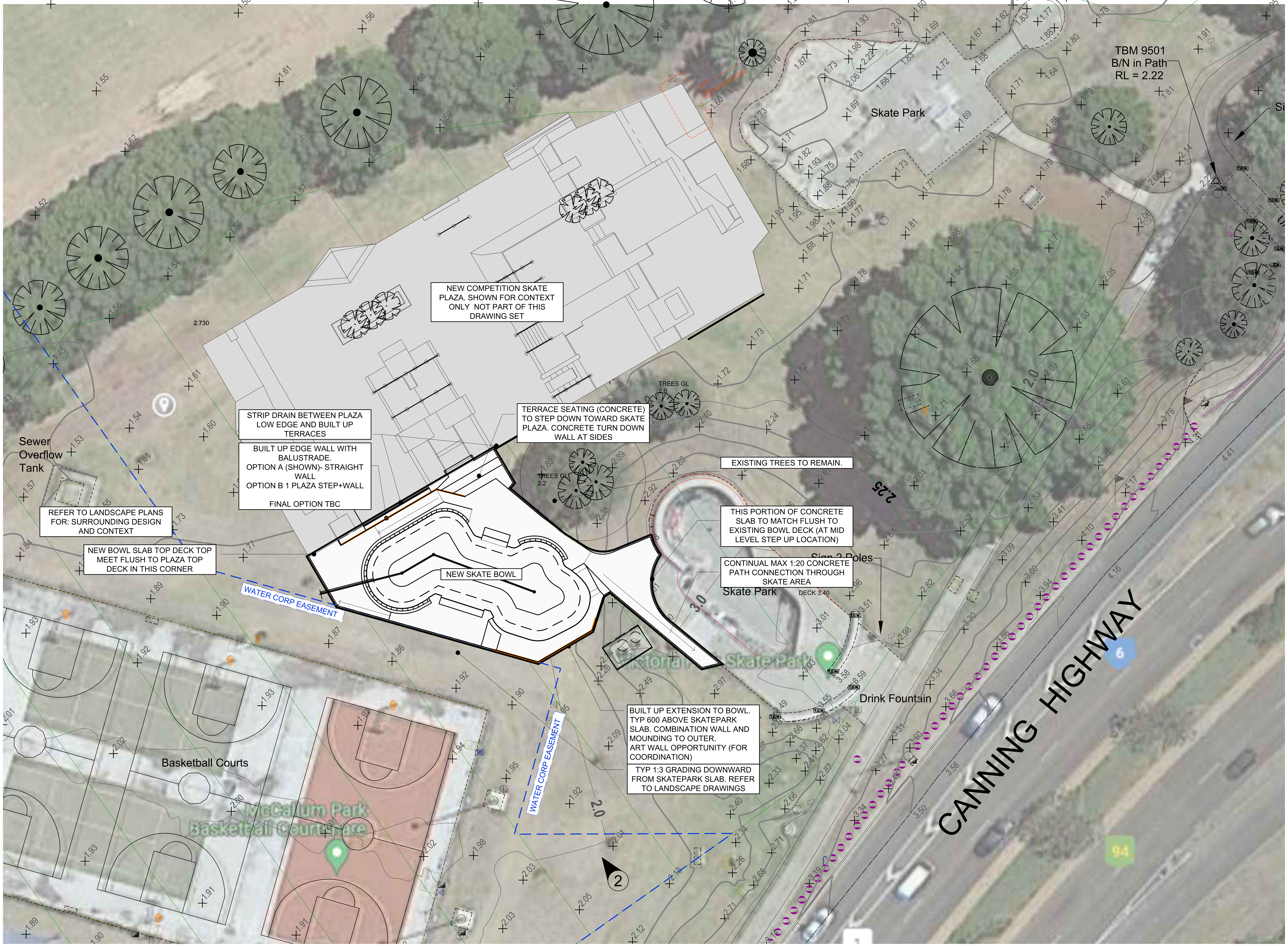

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SCALE @ A1:
1:250
0 2 4 6 8 10 m

SITE CONTEXT PLAN

DRAWING NUMBER:
MP2-SP-L00

REV
E

STRUCTURAL NOTES:

GENERAL:

G1. DRAWINGS TO READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND ALL OTHER RELEVANT CONSULTANT'S DRAWINGS AND THE SPECIFICATION.
G2. THE BUILDER AND/OR CONTRACTORS AND THEIR SUB-CONTRACTORS SHALL ENSURE ALL WORK COMPLIES WITH THE LATEST B.LA. AND AS/NZS CODES (AND AMENDMENTS) AND B.LA. REQUIREMENTS.
G3. ALL CODES REFERRED TO IN THESE NOTES AND THESE DRAWINGS SHALL BE THE CURRENT PUBLICATIONS INCLUDING THEIR LATEST REVISIONS.
G4. DETAILS SHOWN SHALL BE TYPICAL ONLY.
G5. THE BUILDER IS TO ALLOW FOR COSTS OF ALL SITE INSPECTIONS BY THE STRUCTURAL ENGINEER REQUIRED THROUGH THE COURSE OF CONSTRUCTION. NOTIFY PROJECT LEAD CONSULTANT AT LEAST 2 WORKING DAYS PRIOR TO ANY REQUIRED INSPECTIONS. ANY CERTIFICATES REQUIRED TO SATISFY LOCAL AUTHORITY REQUIREMENTS WILL NOT BE ISSUED WITHOUT INSPECTIONS TAKING PLACE.
G6. ANY DISCREPANCIES BETWEEN THIS STRUCTURAL DOCUMENTATION AND ARCHITECTURAL DOCUMENTATION WITH STRUCTURAL IMPLICATIONS ARE TO BE CLARIFIED WITH PROJECT LEAD CONSULTANT PRIOR TO PRICING/DETAILING/CONSTRUCTION. ALL OTHER DISCREPANCIES TO BE CLARIFIED WITH ARCHITECT.
G7. DO NOT SCALE OFF DRAWINGS OR SKETCHES. ALL DIMENSIONS TO BE TAKEN DIRECTLY FROM THE CURRENT ARCHITECTURAL DRAWINGS.
G8. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFFSITE WORKS TO BE CONFIRMED WITH ARCHITECTURAL DRAWINGS BY BUILDER PRIOR TO COMMENCING CONSTRUCTION.ALL SITE LEVELS TO BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK. REFER TO PROJECT LEAD CONSULTANT'S ENGINEER FOR DIRECTION IF ANY DETAILS REQUIRE REVIEW.
G9. DIMENSIONS SHOWN ON ENGINEERING DRAWINGS ARE STRICTLY MINIMUM REQUIREMENTS AND ARE EXCLUSIVE OF ALL FALLS, RECESSES, GROOVES, TOPPINGS, SCREEDS, RENDERS, FINISHES, AND THE LIKE.
G10. MAKE DUE ALLOWANCES IN FINISHES FOR DIFFERENTIAL MOVEMENT OF ALL MATERIALS OF CONSTRUCTION AND WHERE DIFFERING CONSTRUCTION MATERIALS OF CONSTRUCTION ARE IN CONTACT.
G11. ALL TOPPINGS, SCREEDS, RENDERS, COVERINGS, COATINGS, MEMBRANES, CLADDINGS, FINISHES AND THE LIKE SHALL MAKE ALLOWANCE FOR MATERIAL CREEP, SHRINKAGE, THERMAL EXPANSION, DEFLECTION MOVEMENTS AND THE LIKE FOR THE LIFETIME OF THE STRUCTURE.
G12. ALL THIRD PARTY /PROPRIETARY PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH SUPPLIER'S/MANUFACTURER'S SPECIFICATIONS AND DETAILS.
G13. WHERE SPECIFIC PROPRIETARY PRODUCTS ARE NOMINATED, THE BUILDER MAY USE EQUIVALENT PRODUCTS ONLY WITH WRITTEN APPROVAL FROM PROJECT LEAD CONSULTANT. ALL SUBSTITUTED PROPRIETARY PRODUCTS TO BE OF EQUAL OR GREATER PERFORMANCE.

SITE & CONSTRUCTION SAFETY:

S1. SITE AND CONSTRUCTION SAFETY IS THE RESPONSIBILITY OF THE BUILDER.
S2. THE BUILDER SHALL IDENTIFY ANY HAZARDS RELATING TO THE CONSTRUCTION OF THE STRUCTURE AND PUT SUFFICIENT MEASURES IN PLACE TO CONTROL THESE RISKS, INCLUDING COMPLETING ALL NECESSARY JOB SAFETY ANALYSIS SAFETY SHEETS.
S3. THE BUILDER SHALL ENSURE ALL METHODS OF CONSTRUCTION MEET THE REQUIREMENTS OF WORKSAFE AND ALL RELEVANT OCCUPATIONAL HEALTH AND SAFETY REGULATIONS AND LEGISLATION THROUGH OUT ALL STAGES OF CONSTRUCTION.

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DESIGN CRITERIA:

01. SOIL CLASSIFICATION : CLASS 'S' WITH: MIN 150KPa ALLOWABLE BEARING CAR BBR 12%

EARTHWORKS:

E1 ALL EARTHWORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFIC GEOTECHNICAL REPORT, RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B.C.A. REQUIREMENTS.
E2. REMOVE ANY TREE STUMPS, RUBBISH, ETC AND REPLACE WITH CLEAN COMPACTED SAND FILL. ENSURE NO VEGETATION OR ORGANIC MATTER EXISTS IN THE SOIL STRATA FOR A DEPTH OF AT LEAST 1000mm BELOW FOOTINGS AND 2000mm WIDER THAN THE BUILDING FOOTPRINT.
E3. THE BUILDER IS TO STRICTLY FOLLOW ALL SITE PREPARATIONS REQUIREMENTS STATED IN THE GEOTECHNICAL ENGINEER'S REPORT. REFER PROJECT GEOTECHNICAL ENGINEER FOR CLARIFICATION
E4. ALL GRANULAR SOIL (SAND) COMPACTION TESTS TO BE CARRIED OUT USING A STANDARD FALLING WEIGHT (PERTH) PENETROMETER.
E5. ALL SAND UNDER THE STRUCTURE SHALL COMPACTED TO A MINIMUM OF NUMBER OF PENETROMETER BLOWS PER 300mm (TESTED TO SPECIFIED LEVEL BELOW BASE OF NEW FOOTING IN UNDISTURBED IN-SITU SOIL AND THE FULL DEPTH OF ALL FILL MATERIAL) AS FOLLOWS:
FOOTING TYPE BLOWS PER 300mm TESTING DEPTH
SLABS & STRIP FOOTINGS 8 BLOWS (PER 300mm), 750mm TESTING DEPTH OR AS PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEERING REPORT.
E6. THE BUILDER IS RESPONSIBLE FOR SELECTING AND PERFORMING AN APPROPRIATE COMPACTION METHOD TO ACHIEVE THE ABOVE STATED COMPACTION REQUIREMENTS. DO NOT USE COMPACTION METHODS THAT MAY CAUSE DAMAGE TO NEIGHBOURING STRUCTURES.
E7. RE-COMPACT ANY LOOSE SAND PLACED UNDER AREA OF GROUND SLAB DUE TO EXCAVATION OF FOOTINGS OR LEVELING OF SAND PAD.
E8. IT IS THE BUILDER'S RESPONSIBILITY TO ARRANGE FOR COMPACTION TESTING AND ARRANGE CERTIFICATION AS REQUIRED BY THE RELEVANT LOCAL BUILDING AUTHORITY.
E9. COMPACTION CERTIFICATES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE POURING OF ANY CONCRETE.
EI0. THE BUILDER IS TO ENSURE ALL STORM WATER AND SITE DRAINAGE IS LOCATED/INSTALLED IN A MANNER THAT WILL HAVE NO IMPACT ON ANY NEW OR EXISTING STRUCTURES DURING CONSTRUCTION/INSTALLATION/USAGE.
E11. THE BUILDER IS RESPONSIBLE FOR SELECTING APPROPRIATE SHEET PILING/SHORING METHODS ON ANY BOUNDARIES OR WITHIN THE WORKS. ALL PILING IS TO BE DESIGNED AND CERTIFIED BY SPECIALIST SUB-CONTRACTOR'S PRACTICING ENGINEER.
REFER TO SPECIFIC PILING NOTES (ON THIS PAGE - INCLUDED AS APPLICABLE).
E12. BUILDER IS TO ALLOW FOR SITE VISIT BY PROJECT LEAD CONSULTANT'S ENGINEER FOR DIRECTION AS REQUIRED TO DISCUSS SUITABILITY OF SELECTED SHORING/PILING METHOD PRIOR TO COMMENCING WORKS OR AS REQUIRED.

FOUNDATIONS AND GROUND SLABS:

F1. FOOTINGS/GROUND SLABS HAVE BEEN DESIGNED BY SKATE SCULPTURE'S APPOINTED STRUCTURAL ENGINEER TO SUIT A CLASS "S" SITE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S REPORT.
F2. ALL EARTHWORKS/SITE PREPARATION TO BE PERFORMED AS PER GEOTECHNICAL ENGINEER'S REPORT/RECOMMENDATIONS. PROVIDE FULLY COMPACTED SUB-BASE ON SUB-GRADE TO ARCH'L SPECIFICATIONS.
F3. LOCATE FOOTINGS CENTRALLY UNDER WALLS AND COLUMNS UNLESS INDICATED OTHERWISE ON TYPICAL SECTIONS.
F4. THE LEVEL DIFFERENCE BETWEEN ADJOINING FOOTINGS SHALL NOT EXCEED ONE HALF OF THE CLEAR DISTANCE BETWEEN THEM.
F5. THE BUILDER IS TO CONFIRM POSITION AND DEPTH OF ALL FOOTING STEPS (WHETHER SHOWN ON THESE DRAWINGS OR NOT) ON SITE TO COMPLY WITH FINISHED GROUND AND FLOOR LEVELS).
F6. PROVIDE AN APPROVED MOISTURE PROOF MEMBRANE UNDER ALL GROUND SLABS OR AS SHOWN ON THESE DRAWINGS.
F7. ALL TRENCH MESH AND GROUND SLAB MESH TOP BE LAPPED FOR A MINIMUM LENGTH OF 2 BARS + 25mm. EG: SL62 MESH LAPPED 225mm (MINIMUM).
F8. ALL CONSTRUCTION JOINTS IN GROUND SLABS TO BE IN THE LOCATIONS SHOWN IN THESE DRAWINGS OR AS APPROVED BY THE ENGINEER.

CONCRETE:

C1. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B,LA. REQUIREMENTS.
C2. ALL CEMENT TO BE TYPE 'A' PORTLAND CEMENT (U.N.O.), PROVIDED BY AN APPROVED PREMIXING COMPANY.
C3. DO NOT USE BLENDED CEMENTS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM
PROJECT LEAD CONSULTANT.
C4. CONCRETE SHALL BE SUPPLIED BY AN APPROVED READY-MIX COMPANY AND CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS (UNLESS NOTED OTHERWISE):

COMPONENT	GRADE	SLUMP	MAX AGG. SIZE
FOOTINGS:	N32	80MM	30MM
GROUND SLABS	N32	80MM	20MM
WALLS / SKATE FEATURES	N32	80MM	10MM

C5. ALL CONCRETE TO BE PLACED WITH A MECHANICAL VIBRATOR.
C6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) DAYS AFTER POURING BY PONDING OR OTHER APPROVED MEANS.
C7. ALL FORMWORK TO COMPLY WITH AS 1509.
C8. MINIMUM FORMWORK STRIPPING TIMES UNLESS NOTED OTHERWISE:
WALLS: 3 DAYS,
SLABS: 1 DAYS
C9. WHERE CONCRETE IS DAMAGED AND/OR HONEY COMBED, NOTIFY PROJECT LEAD CONSULTANT FOR REPAIR REQUIREMENTS OR REMOVAL.
CI0. ALL EXPOSED CONCRETE EDGES WITHOUT CAST-IN SHS's ARE TO HAVE A 20mm CHAMFER EXCEPT UPPER EDGES WHICH ARE TO HAVE A 20mm BULLNOSE RADIUS.

REINFORCEMENT:

R1. ALL REINFORCEMENT IS TO BE SUPPLIED AND PLACED ACCORDANCE WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B,LA, REQUIREMENTS,
R2, BUILDER IS TO NOTIFY PROJECT LEAD CONSULTANT 2 DAYS IN ADVANCE OF POURING CONCRETE IF STEEL REINFORCING INSPECTION IS REQUIRED TO MEET LOCAL BUILDING AUTHORITY REQUIREMENTS, NO CERTIFICATION WILL BE ISSUED WITHOUT INSPECTION,
R3, ALL REINFORCEMENT BARS TO BE FREE OF SCALE, RUST AND OTHER MATTER,
R4, BAR NOTATIONS ON DRAWINGS DENOTE THE FOLLOWING:
N - DENOTES GRADE D5OON HOT ROLLED RIBBED REBARS
S - DENOTES GRADE D250N HOT ROLLED RIBBED REBARS
R - DENOTES GRADE R250N HOT ROLLED PLAIN ROUND BARS
W - DENOTES GRADE R5OOL COLD DRAWN ROUND WIRE
DW - DENOTES GRADE D5OOL COLD ROLLED RIBBED WIRE
SL - DENOTES SQUARE MESH
RL - DENOTES RECTANGULAR
TM - DENOTES TRENCH MESH
R5, PROVIDE 1-N16 REINFORCING BAR x 1500 LONG TOP & BOTTOM OF SLAB AT ALL RE-ENTRANT CORNERS (UNLESS NOTED OTHERWISE) WHETHER SHOWN ON PLAN OR NOT,
R6, SUPPORT AND TIE ALL REINFORCEMENT TO MAINTAIN SPECIFIED COVER ON APPROVED PLASTIC OR PLASTIC TIPPED STEEL CHAIRS AT 1000mm MAXIMUM CENTERS,
R7, ALL BAR SPLICE LENGTHS OF DEFORMED BARS TO BE 40 x BAR DIAMETERS AND SHEETS OF MESH TO OVERLAP BY A MINIMUM OF TWO WIRES + 25mm (UNLESS NOTED OTHERWISE),
R8, SLOPES OF CRANKED BARS SHALL NOT EXCEED ONE IN SIX,
R9, MINIMUM CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS (UNLESS NOTED OTHERWISE):

COMPONENT	INTERNAL COVER	EXTERNAL COVER (EXPOSED)
GROUND SLABS:	-	40MM
WALLS:	-	40MM
FOOTINGS:	75MM	75MM

R10, THE BUILDER IS TO ENSURE THAT ALL BARS SHALL AT ALL TIMES BE PLACED IN THE EXTREME CORNERS OF LIGATURES TO BEAMS AND COLUMNS,

STEELWORK:

S1. ALL STEELWORK TO BE SUPPLIED/FABRICATED/WELDED/TRANSPORTED/ERECTED CORROSION PROTECTED IN ACCORDANCE WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B.LA. REQUIREMENTS.
S2. ALL COLD FORMED STEEL MEMBERS, CONNECTIONS, BRACING, ETC, SHALL CONFORM WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
S3. MINIMUM WELDED REQUIREMENTS ARE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE ON THESE DRAWINGS. WELDS TO DEVELOP FULL STRENGTH OF THE MEMBERS TO BE JOINED.
S4. VERIFY ALL SETOUT DIMENSIONS WITH ARCHITECTURAL DRAWINGS. DO NOT SCALE FROM STRUCTURAL DRAWINGS.
S5. PROVIDE ALL CLEATS, BRACKETS, WELDING AND HOLING, ETC NECESSARY FOR THE COMPLETION OF THE BUILDING AND AS SHOWN AND REQUIRED TO SUIT ARCHITECTURAL DETAILS. SHOP DETAILER TO PROVIDE HOLES TO STEEL MEMBERS TO ALLOW FOR FIXING OF NON STRUCTURAL COMPONENTS IN ACCORDANCE WITH ARCHITECTURAL DETAILS.
S6. FULLY SEAL ALL HOLLOW SECTIONS USING 5mm PLATES UNLESS NOTED OTHERWISE.
S7. ALL STEELWORK TO BE FREE FROM DISTORTIONS WITH ALL NATURAL CAMBERS IN STEELWORK TO BE UPWARDS.
S8. MEMBERS SHALL BE IN ONE LENGTH, UNLESS OTHERWISE APPROVED.
S9. ALL BOLTS, NUTS AND WASHERS TO BE CADMIUM PLATED. ALL EXTERNAL BOLTING AND HOLDING DOWN BOLTS, NUTS AND WASHERS TO BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
S10. MINIMUM STEELWORK FINISHES SHALL BE:
i) ALL SUPPLIED CHS/SHS SECTIONS TO BE DURAGAL.
ii) SITE TREAT ANY DAMAGED CORROSION PROTECTION (DUE TO WELDING/CUTTING/ GRINDING, ETC) WITH 'GALMET' SILVER PAINT (APPLICATION TO BE NEAT & CONSISTENT).
iii) TREAT STEELWORK BELOW GROUND LEVEL WITH 2 COATS OF TAUBMANS INTERZONE 954 EPOXY (TO ACHIEVE A MINIMUM OF 150 MICRONS COVER) OR APPROVED EQUIVALENT.

CAST-IN SHS/CHS STEEL SECTIONS:

S1. ALL SHS/CHS CAST-IN STEEL SECTIONS TO BE SUPPLIED GALVANIZED (HDG).
S2. CAST-IN SECTIONS TO BE CUT & WELDED ONSITE (INCLUDING WELDED LUGS) AS PER BUILDER'S PREFERENCE. PROVIDE 6mm THICK END CAPS TO ALL CHS/SHS EXPOSED ENDS, WELDED & THEN GRIND EXPOSED CORNERS & EDGES GROUND TO A ROUNDED FINISH - NO SHARP EDGES. PROVIDE ADDITIONAL GALV. TREATMENT TO ALL CUT/WELDED/SITE DAMAGED STEELWORK & LUGS IN ACCORDANCE WITH GENERAL STEELWORK NOTES (ABOVE). ALTERNATIVLEY; SHOP MITRE/WELD SECTIONS & SHOP WELD LUGS/CLOSING PLATES. HOT DIP GALVANIZE WITH BREATHER HOLES (BE SEALED WITH SIKAFLEX OR EQUIVALENT).
S3. ALL CAST-IN CHS SECTIONS TO BE SET OUT 8mm FROM EXPOSED CONCRETE EDGES, REFER TO ARCHITECTURAL/CONCEPT DRAWINGS.
S4. ENSURE ALL LUGS AND REINFORCEMENT CONNECTIONS TO CAST IN STEEL CHS/SHS SECTIONS ARE LOCATED SO AS TO ALLOW A MINIMUM 40mm COVERAGE BELOW CONCRETE SURFACE.

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GENERAL NOTES

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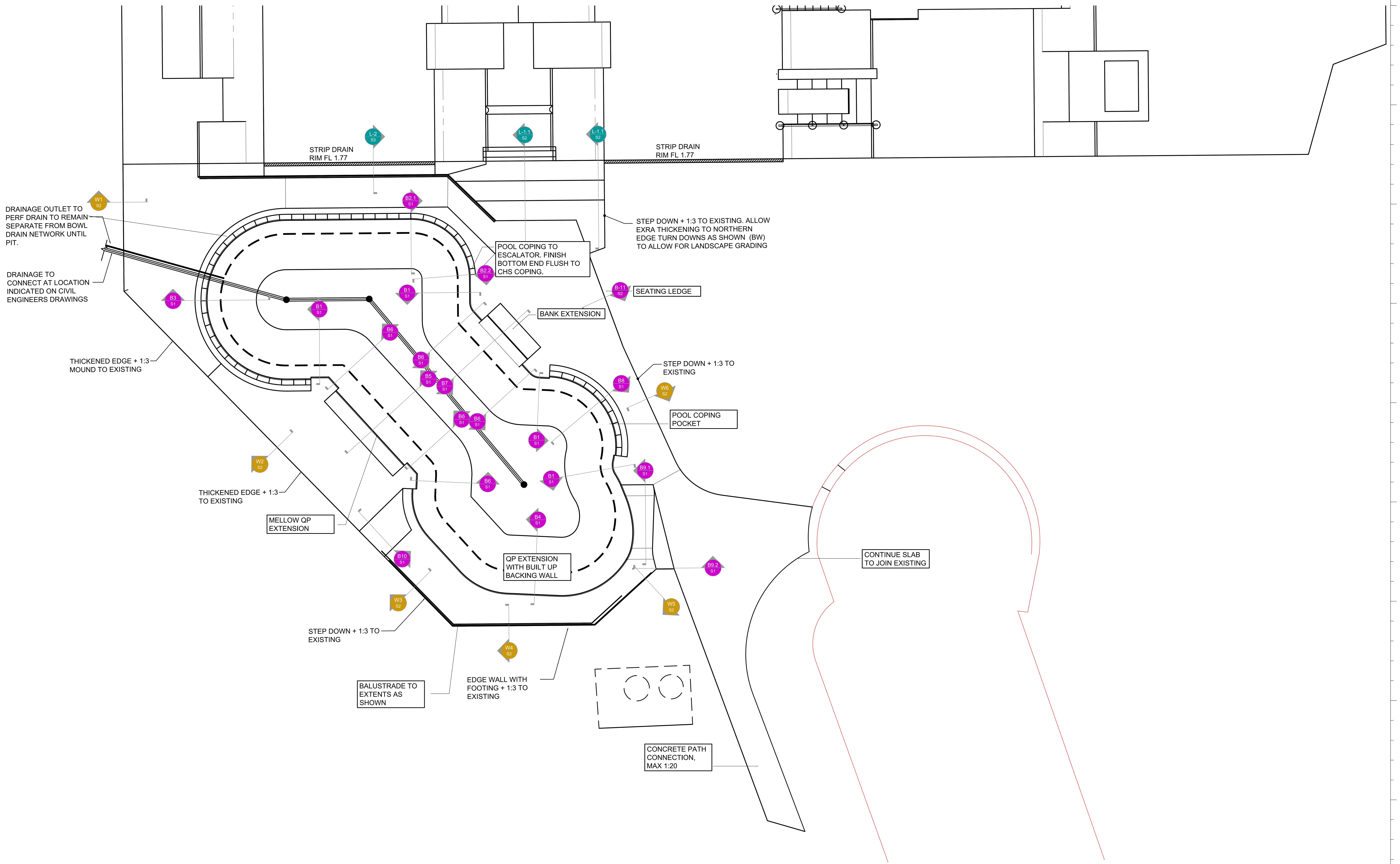

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SCALE @ A1:
1:100

0 1 2 3 4 5 m

SKATEPARK PLAN

DRAWING NUMBER:
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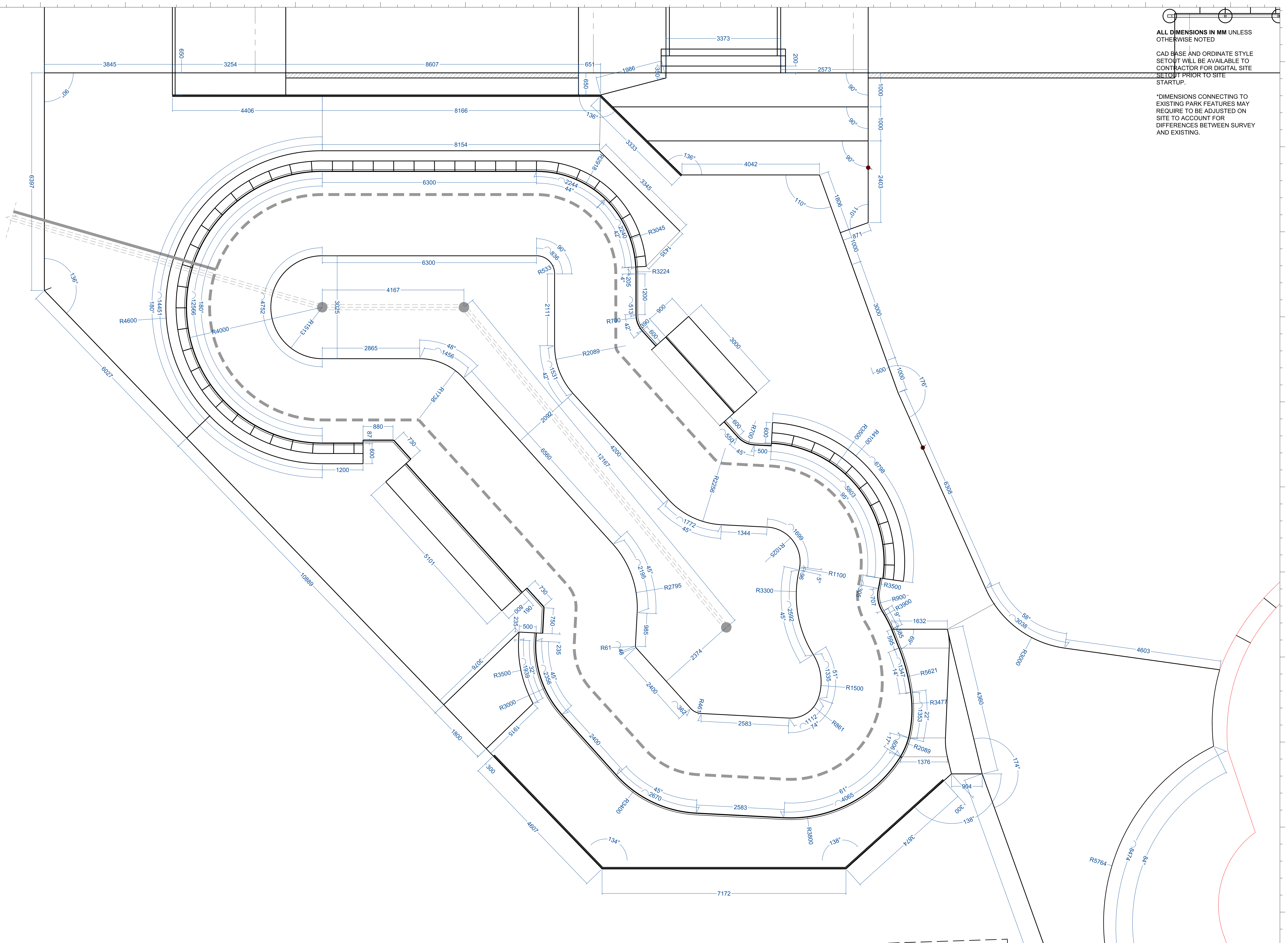

ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED

CAD BASE AND ORDINATE STYLE SETOUT WILL BE AVAILABLE TO CONTRACTOR FOR DIGITAL SITE SETOUT PRIOR TO SITE STARTUP.

*DIMENSIONS CONNECTING TO EXISTING PARK FEATURES MAY REQUIRE TO BE ADJUSTED ON SITE TO ACCOUNT FOR DIFFERENCES BETWEEN SURVEY AND EXISTING.

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SCALE @ A1:
1:50

0 0.5 1 1.5 2 m

DIMENSIONS PLAN

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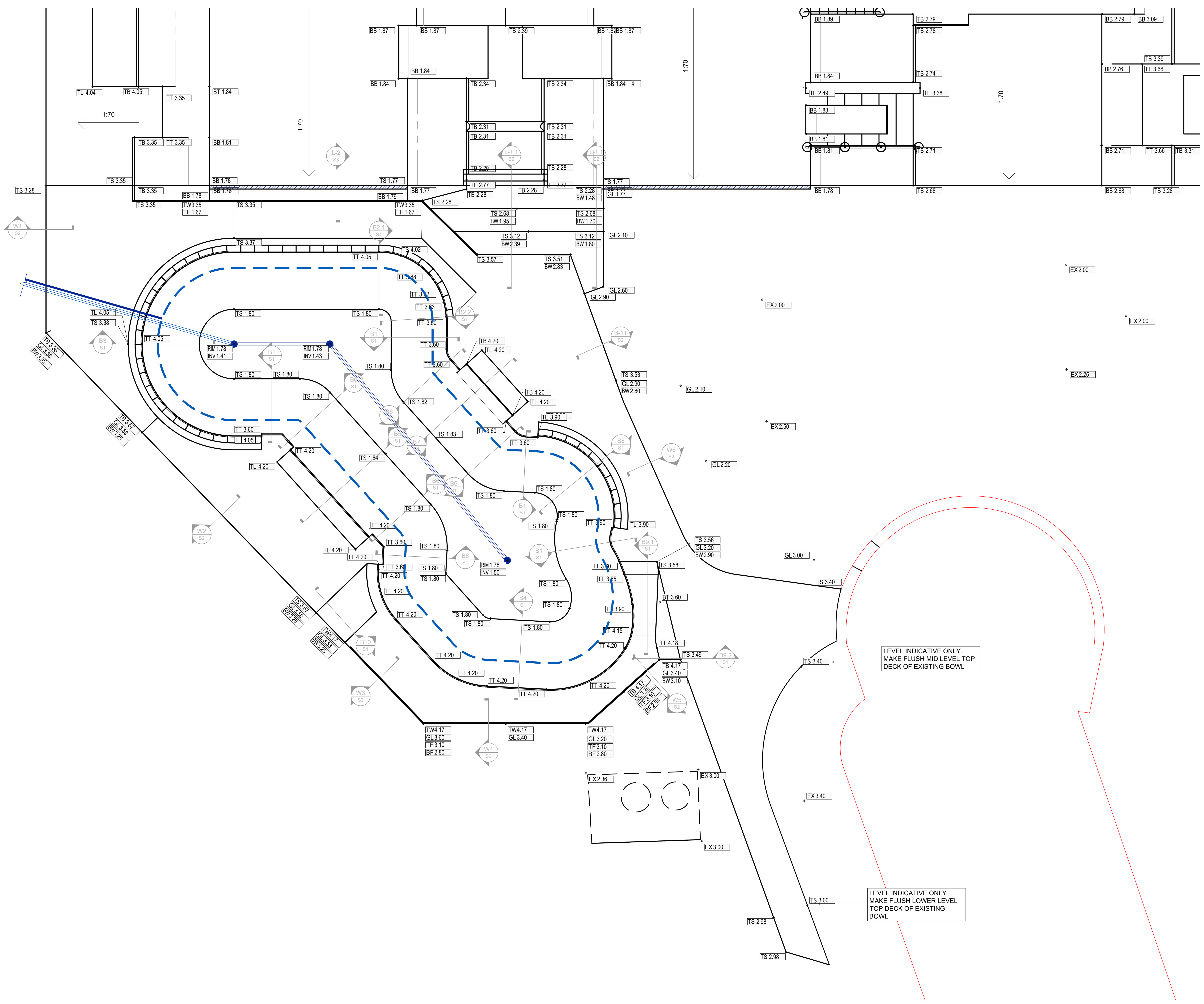

LEGEND

TS 0.00	ELEVATION TAG RELATIVE TO GEODETIC HEIGHT AS PER SURVEY
TS	TOP OF FINISHED SLAB
TB	TOP OF BANK
BB	BOTTOM OF BANK
TT	TOP OF TRANSITION
BT	BOTTOM OF TRANSITION
TR	TOP OF RAMP (LOW ANGLE)
BR	BOTTOM OF RAMP
ST	TOP OF STEP
TL	TOP OF LEDGE
TW	TOP OF WALL
BW	BOTTOM OF WALL
RIM	RIM OF AREA DRAIN
INV	DRAIN SYSTEM INVERT

150Ø PVC DRAIN PIPE @ 0.5%

PERFORATED
NON PERFORATED
100Ø PERF DRAIN PIPE IN GEOFABRIC TO SURROUND TOE OF BOWL AND BEHIND RETAINING WALLS. CONNECTIONS TO LOCATIONS AS PER CIVIL DRAWINGS

Notes
1 Elevations relative to as shown on site survey / Landscape Plans.
2. Elevation to be confirmed on site during construction startup. 3. Refer to TYPICAL DETAILS for further piping information 4. Max slope on flat slab =4%

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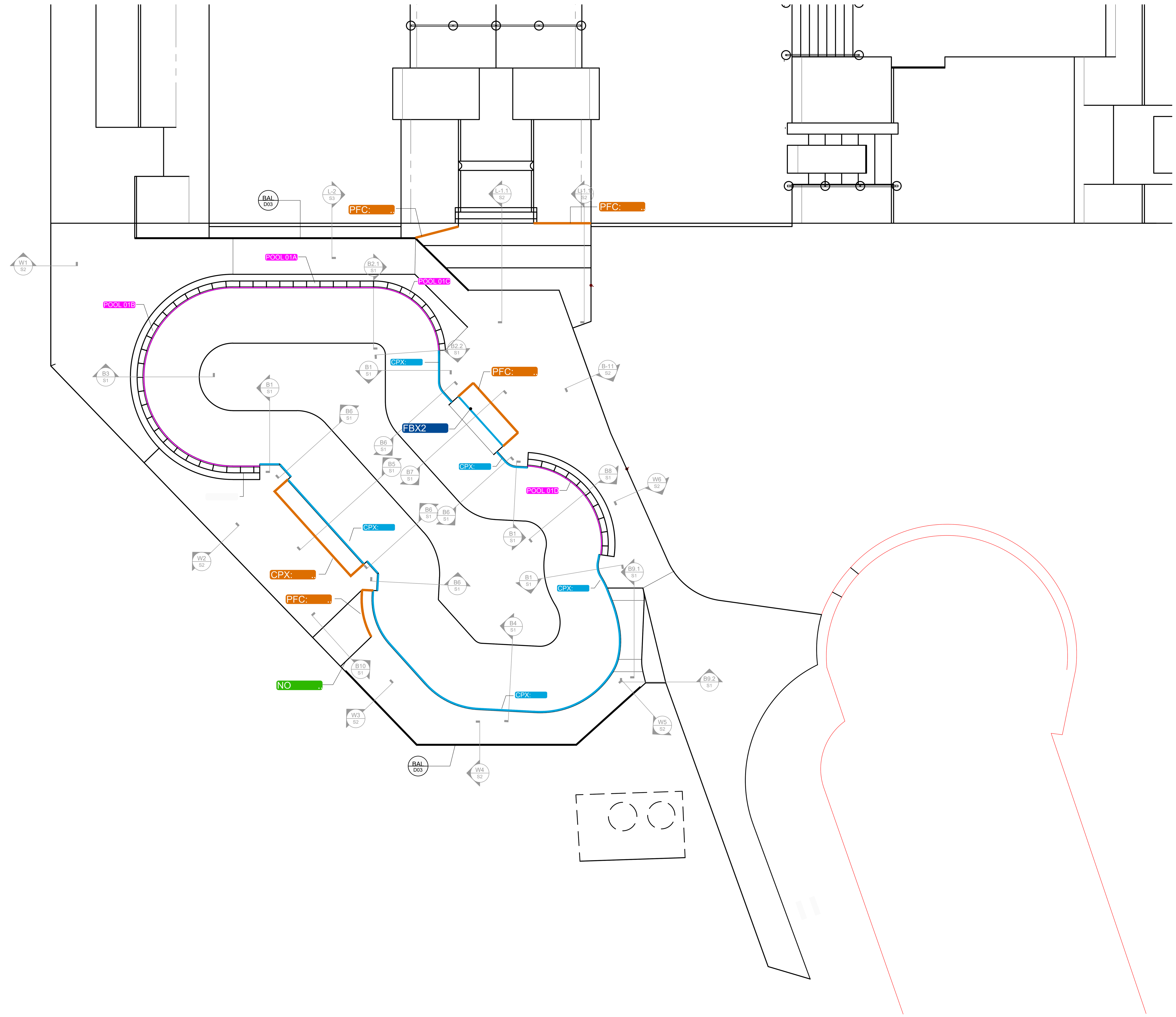
SCALE @ A1:
1:100

0 1 2 3 4 5 m

GRADING PLAN

DRAWING NUMBER:
MP2-SP-P03A

REV
E



CPX:	CHS COPING	CPX D01
PFC:	PFC COPING	PFC D03
FBX2	DOUBLE FLAT STEEL BAR ANGLE	FSB D03
NO	NOPING	NO D03
POOL	POOL	POOL D03

REFER TO DETAILS FOR DIMENSIONS WHERE STEEL ITEM IS NOT ALIGNED TO PLAN VIEW (TYP)

S240565

SEVRIN CLEMENTS
(B. Eng.) Structural Engineer
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DESIGN BY (SKATEPARK)
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0450405510
ABN. 82 309 521 292
timyuen@skatesculpture.com.au

Skate Sculpture

31°57 S - 115°52 E

STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

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B	30.01.2025	COORDINATION
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E	12.03.2025	SLABS SHOWN AT 100mm T

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PROJECT
McCALLUM PARK (BOWL 2 COMPONENT) SKATEPARK
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

N

SCALE @ A1:
1:100

0 1 2 3 4 5 m

STEEL EDGING PLAN

DRAWING NUMBER:
MP2-SP-P04A

REV
E

LEGEND

SJ	SAW CUT	SJ TD02
EJV	EXPANSION JOINT	EJV TD02
CJ	COLD JOINT	CJ TD02
PJ	PROPOSED SLAB SECTION POUR / FORM LOCATION TRIMMER BAR REINFORCEMENT	

***PROVIDE SEPARABLE COSTS FOR ADDITION OF COLOUR INTEGRAL COLOUR TO SHOTCRETE AND LEDGES.**

ALL CONCRETE / SHOTCRETE TO BE FINISHED WITH 'ASHFORD FORMULA' HARDENER

CONCRETE AND SHOTCRETE FINISHING MUST BE COMPLETED BY QUALIFIED SKATE PARK BUILD CONTRACTOR WITH MINIMUM EXPERIENCE QUALIFICATIONS AS OUTLINED IN TENDER DOCUMENT

BLEND AREAS

IN MANY INSTANCES THROUGHOUT THE SKATEPARK - ELEVATION, AND DEGREE OF SLOPE BETWEEN BANKS, TRANSITION SLOPES, AND VERTICAL ELEMENTS CAN VARY. WHERE INDICATED ON PLAN PROVIDE CUSTOM CONCRETE BLENDING FOR SMOOTH TRANSITIONS. THESE AREAS TYPICALLY REQUIRE GREATER HAND WORK AND QUALITY CONTROL TO ENSURE THAT BLENDS DO NOT RESULT IN IRREGULAR CONCRETE SURFACE CONDITIONS.

COLOUR SCHEDULE

M-1	CONCRETE FLAT SLAB NATURAL GREY
M-2	BANK / TRANSITION/LEDGE COLOUR: CCS ECHIDNA
M-3	SHOTCRETE BANK / TRANSITION COLOUR: CCS ONYX
M-4	COLOUR TO BE AS PER LANDSCAPE SEATING TERRACE
M-5	CONCRETE FEATURE COLOUR CCS ECHIDNA
M-6	FEATURE COLOUR TO BLADE WALL OR KERB. COLOUR INDICATIVE ONLY. COORDINATE WITH CLIENT REPRESENTATIVE AND ARTIST
M-7	FEATURE COLOUR TO FLAT SLAB AND BANKS / TRANSITIONS WHERE SHOWN. CCS ONYX

CONCRETE NOTES:
CONCRETE APPLICATION
All transition and bank elements to be poured via shotcrete application

CONCRETE FINISHING
All HORIZONTAL elements to have a power troweled shop floor finish.
All TRANSITIONAL elements and features to have a hand trowel shop floor finish.
All VERTICAL wall faces to be produced using paper-faced forms.

CONCRETE PROPERTIES AND REINFORCEMENT
For concrete properties; strength, thickness, reinforcement gauge and spacing, refer to specifications and details

CONCRETE COLOUR SELECTION
All concrete colours are selected from (REFER TO TENDER SPECIFICATIONS)

Contractor to use selected colours or approved alternative in areas noted on documents.
Contractor to follow manufacturer's specifications

BLEND AREAS:
In many instances throughout the skatepark - elevation, and degree of slope between banks, transition slopes, and vertical elements can vary. Where indicated on plan, provide custom concrete blending for smooth transitions. These areas typically require greater hand work and quality control to ensure that blends do not result in irregular concrete surface conditions.

CONSTRUCTION SEQUENCE:
1. Construction of all concrete elements within the skatepark are best completed in the following order:
A. Footings and walls with footings
B. Bank slab sections, Steps and Transitions
C. Floor Slab
D. Wall, Ledges and Boxes built on slab.

2. Cast in place concrete slab sections shall be constructed in an alternating arrangement so that every other slab section is completed prior to the pouring of the infill slab section. This system provides edge forming for every alternate slab section and helps ensure quality control. **No slab sections shall exceed 4.0m (linear)** in size without control jointing. - see concrete specs.

3. Cold Joints are provided between each slab section. Place tie bars and dowels through all slab sections and floor slab.

4. Expansion Joints: Shall be placed at the base of all vertical concrete elements such as ledges, stairs and walls. Utilize joint compound no greater than 6.25mm in width to help eliminate tripping or irregularities in skating surface.

5. Saw cut pattern is shown to provide direction only. Contractor shall cut slab as needed to prevent cracking. Saw cuts must be made before any signs of thermal cracking. Thermal cracking as a result of insufficient crack control may result in un-skateable surfaces and may need to be replaced.

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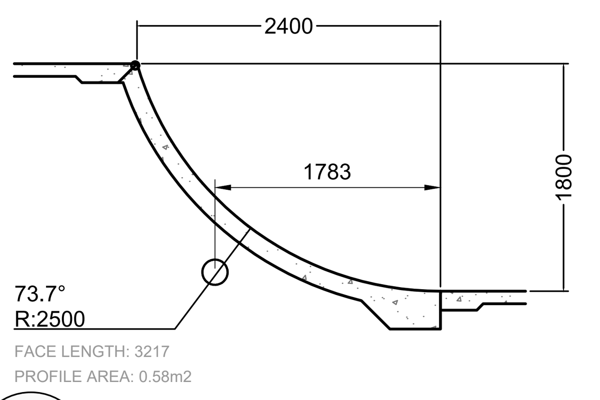
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

N

SCALE @ A1:
1:100
0 1 2 3 4 5 m

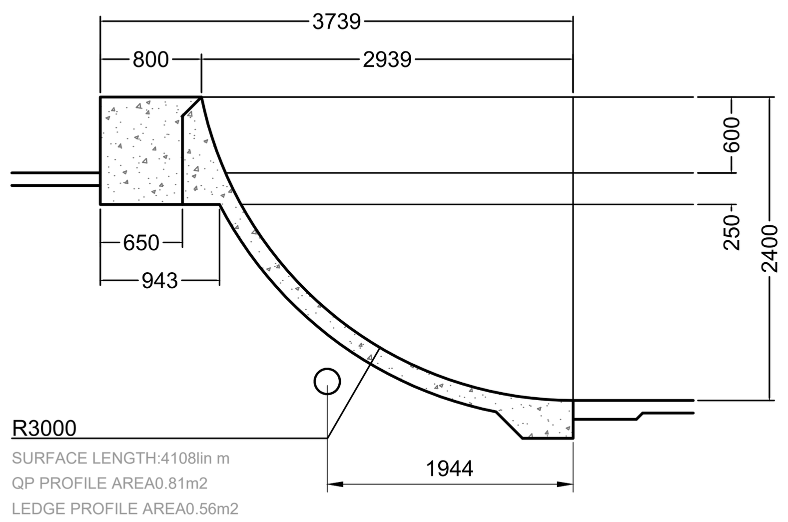
CONCRETE SURFACES PLAN

DRAWING NUMBER:
MP2-SP-P05-A
REV
E



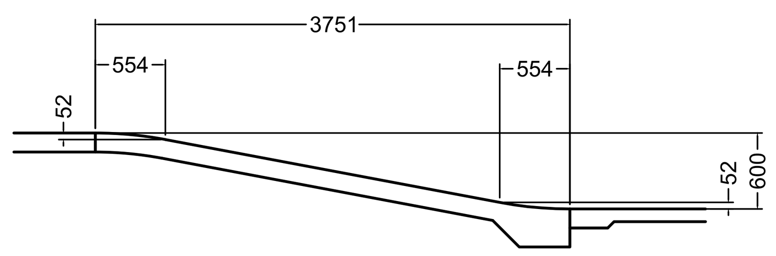
TT D01 CPX D01

B-1 QP
S01 SCALE: 1:50

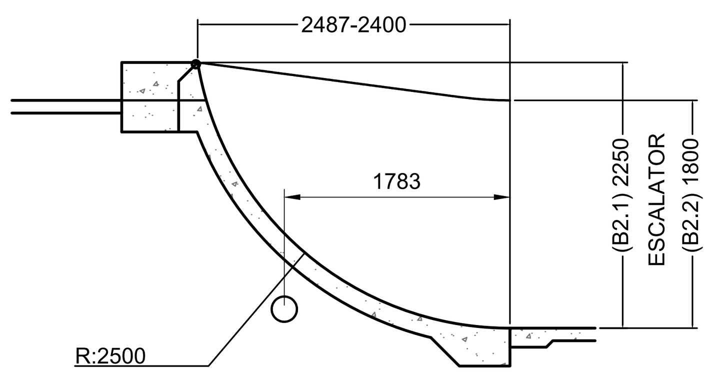


TT D01 TEX D01 CPX D01

B-5 QP EXTENSION
S01 SCALE: 1:50



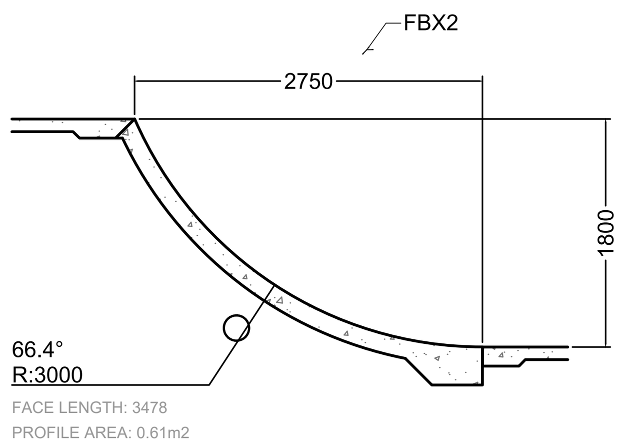
B-9.1 ESCALATOR BANK PROFILE
S01 SCALE: 1:50



TT D01 TEX D01 POOL D03

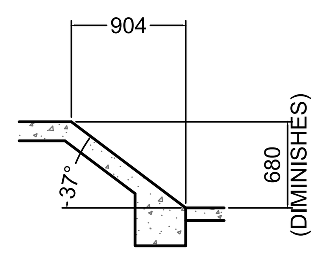
B-2.1 QP EXTENSION
S01 SCALE: 1:50

B-2.2 QP EXTENSION
S01 SCALE: 1:50

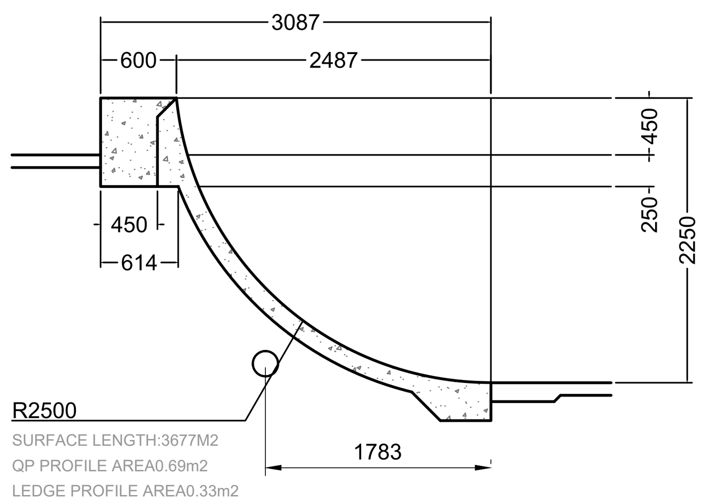


TT D01 CPX D01

B-6 QP
S01 SCALE: 1:50

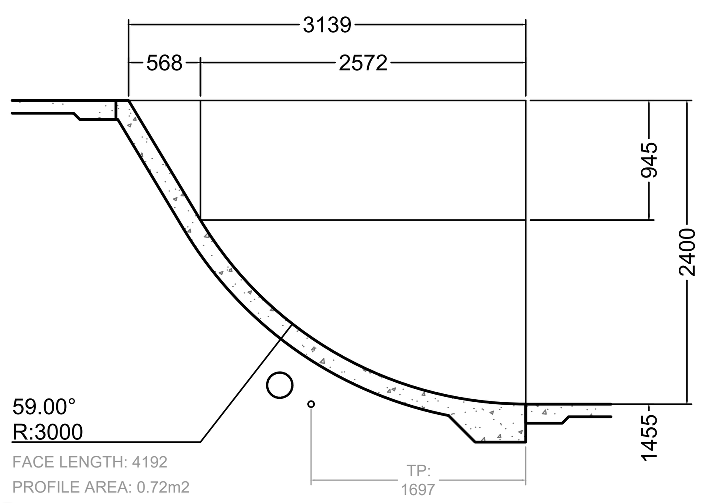


B-9.2 ESCALATOR - SLAPPY EDGE
S01 SCALE: 1:50



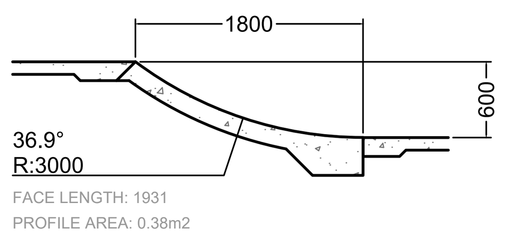
TT D01 TEX D01 POOL D01

B-3 QP EXTENSION
S01 SCALE: 1:50

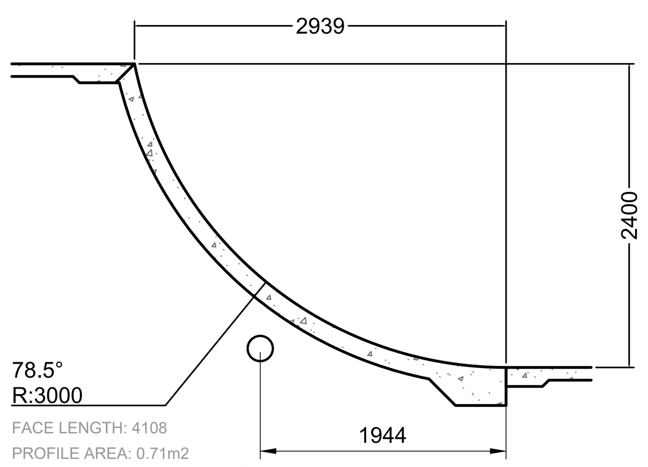


TB D02 CPX D01 TEX D01

B-7 BANK EXTENSION
S01 SCALE: 1:50

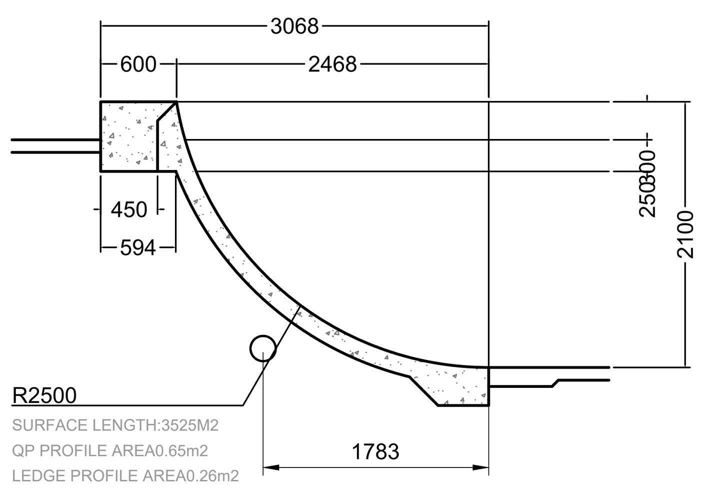


B-10 LEVEL CHANGE TRANSITION
S01 SCALE: 1:50



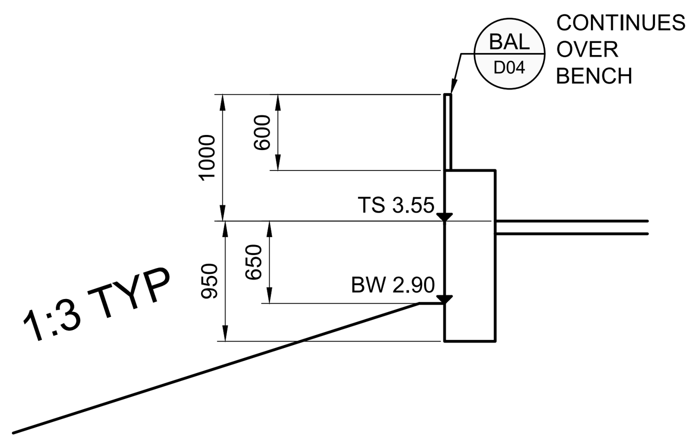
TT D01 TEX D01 CPX D01

B-4 QP EXTENSION
S01 SCALE: 1:50



TT D01 TEX D01 POOL D01

B-8 BANK EXTENSION
S01 SCALE: 1:50



B-11 LEVEL CHANGE TRANSITION
S01 SCALE: 1:50

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CPX: CP: NB50 X 4.5 CHS. CPX TD01

SST: 50mm x 50mm x 4mm SQUARE HSS SST TD03

FB50: 50mm x 6mm FLAT STEEL BAR FSB TD03

FBX2: 2X 100mmX6mm FLAT BAR WELDED TO ANGLE MATCHING TOP OF BANK FBX2 TD03

PFC: PFC CHANEL COPING 150X75X9.5 PFC TD03

POOL: POOL BLOCK COPING TILE. SEE MP-SP-D07 POOL TD01

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

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TOWN OF VICTORIA PARK

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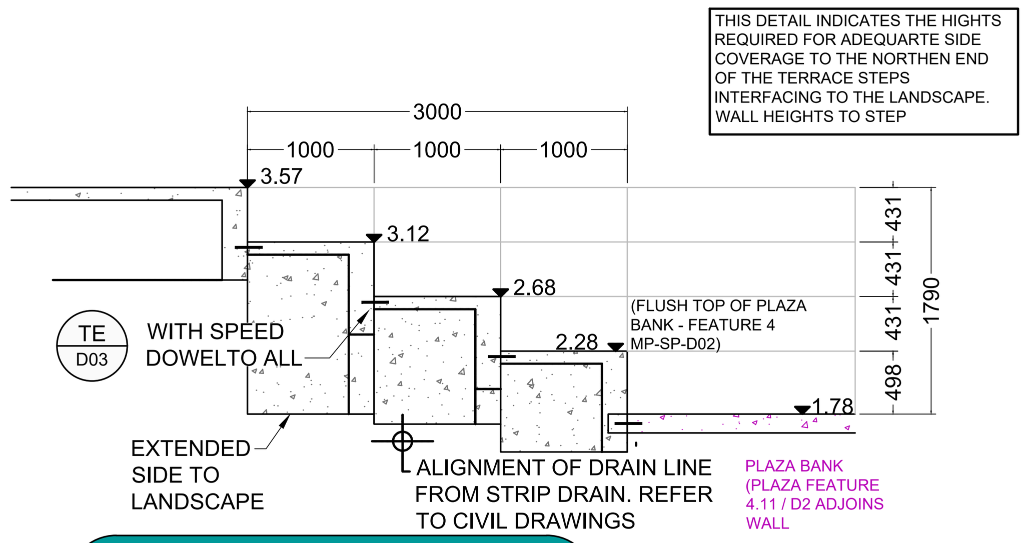
SCALE @ A1:
NA

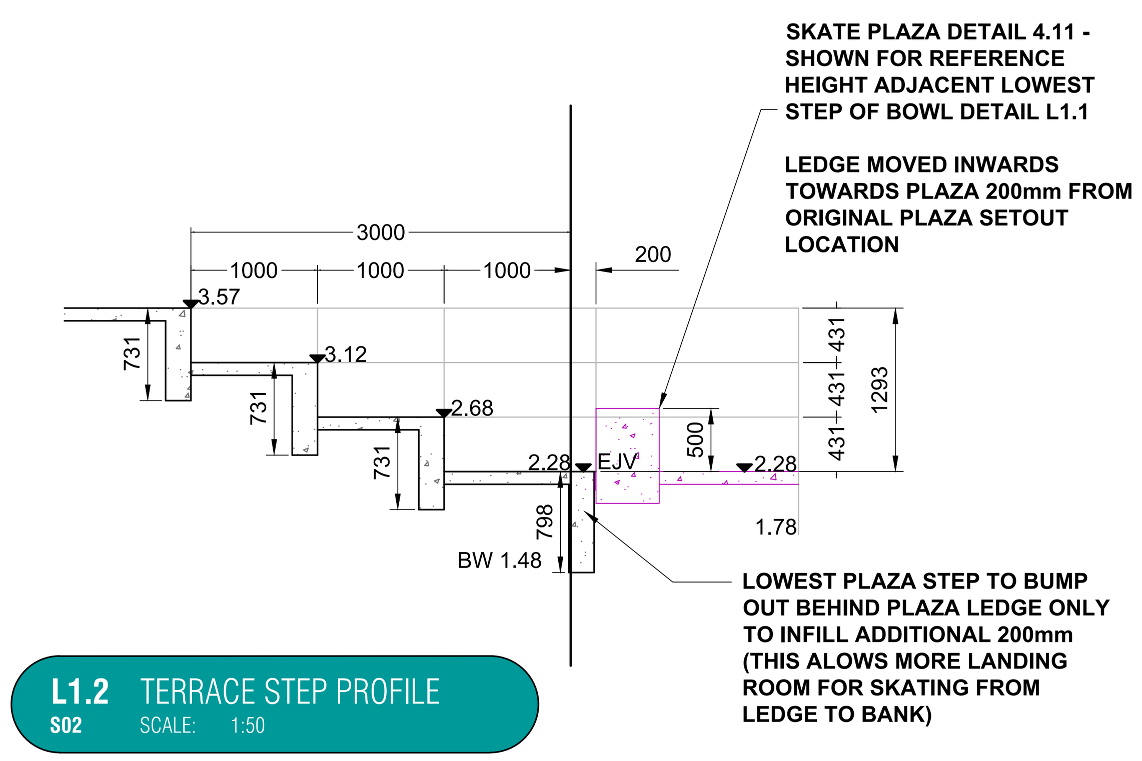
DETAILS SHEET 1

DRAWING NUMBER:
MP2-SP-S1

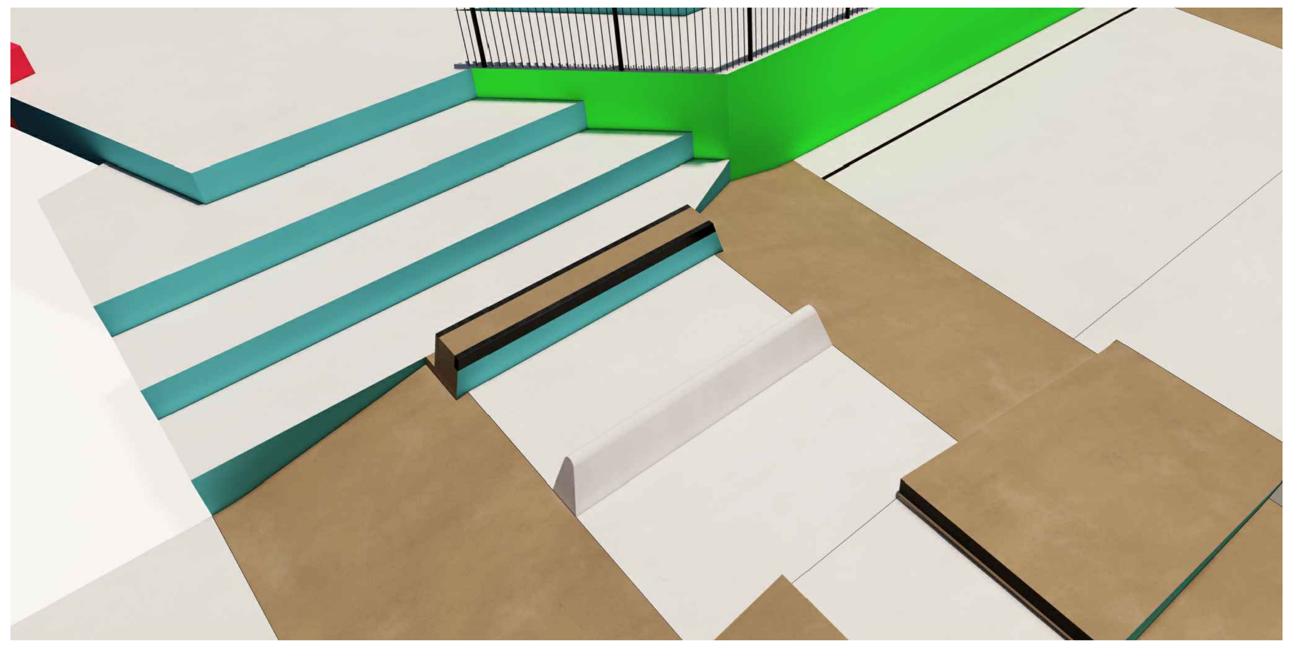
REV
E



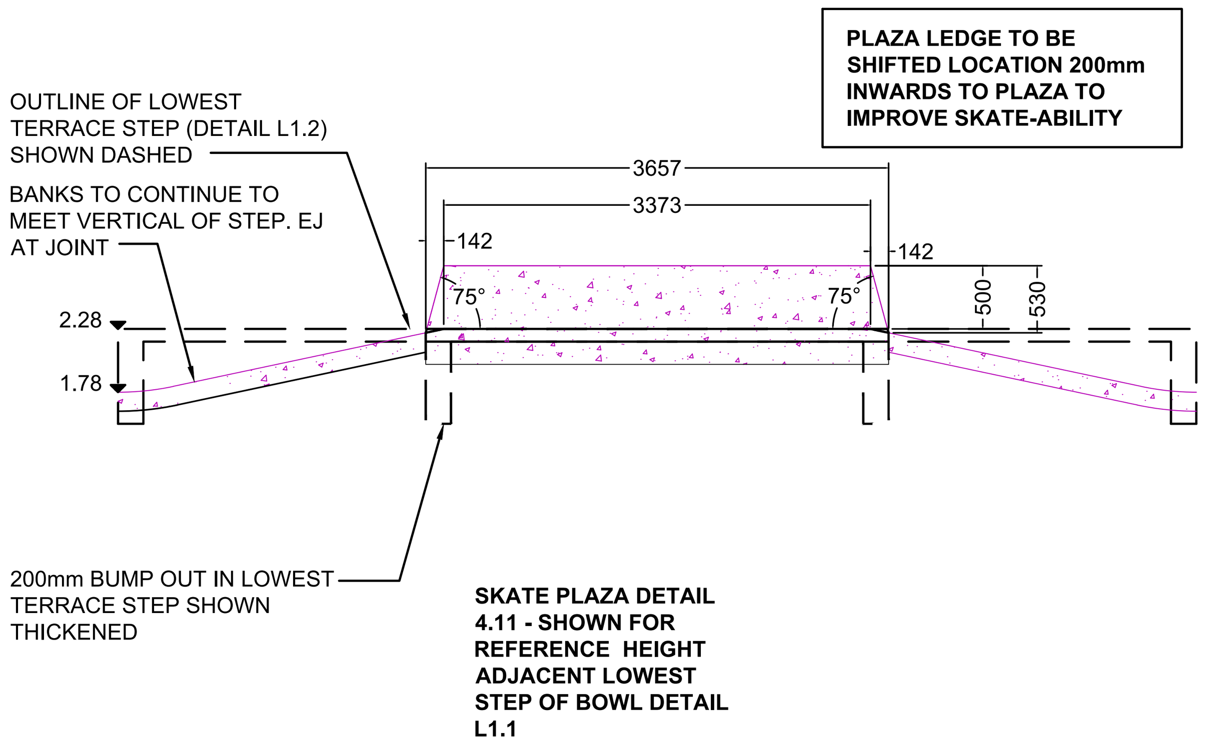
L1.1 TERRACE STEP PROFILE
S02 SCALE: 1:50



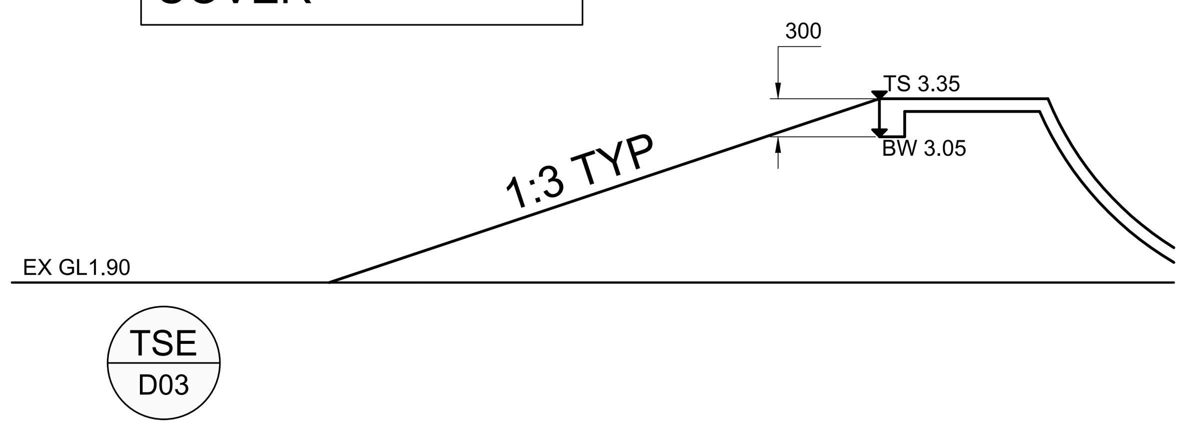
L1.2 TERRACE STEP PROFILE
S02 SCALE: 1:50



3D VIEW - TERRACE STEPS INTERFACE TO PLAZA FEATURE 4

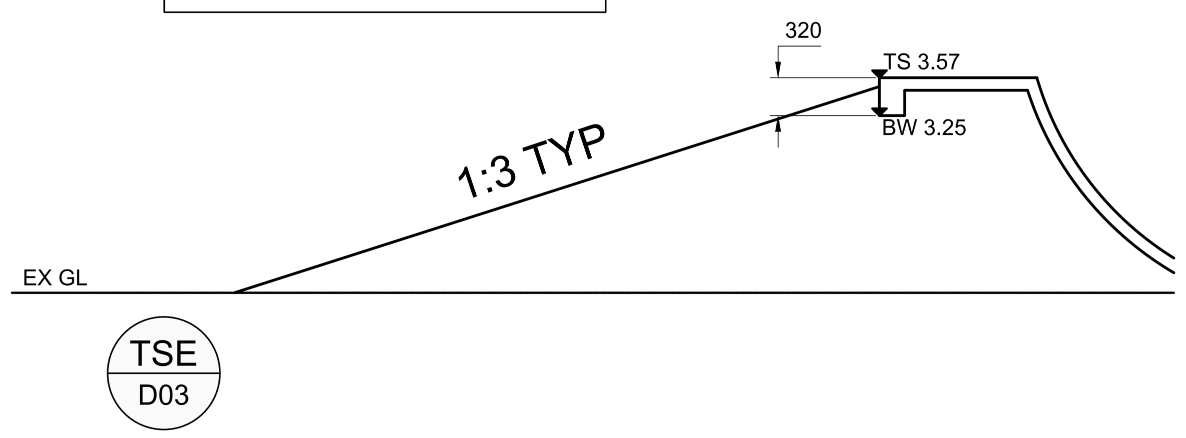


300H THICKENED EDGE 280 BOTTOM COVER



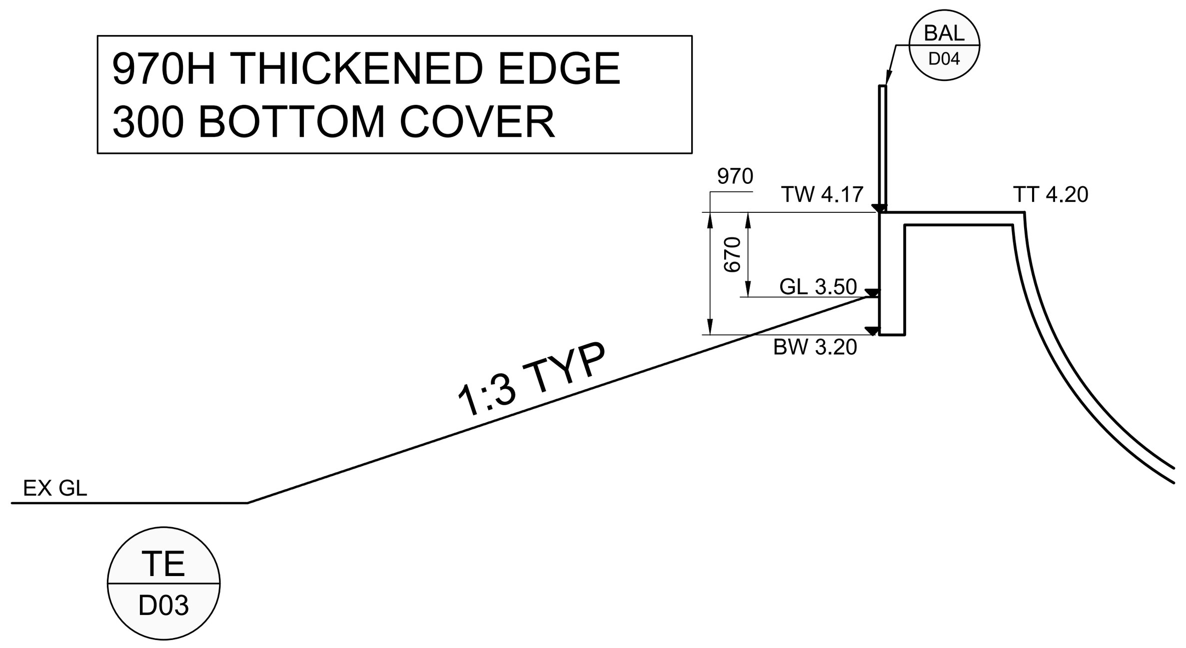
W-1 EDGE WALL PROFILE
S02 SCALE: 1:50

320H THICKENED EDGE 250 BOTTOM COVER



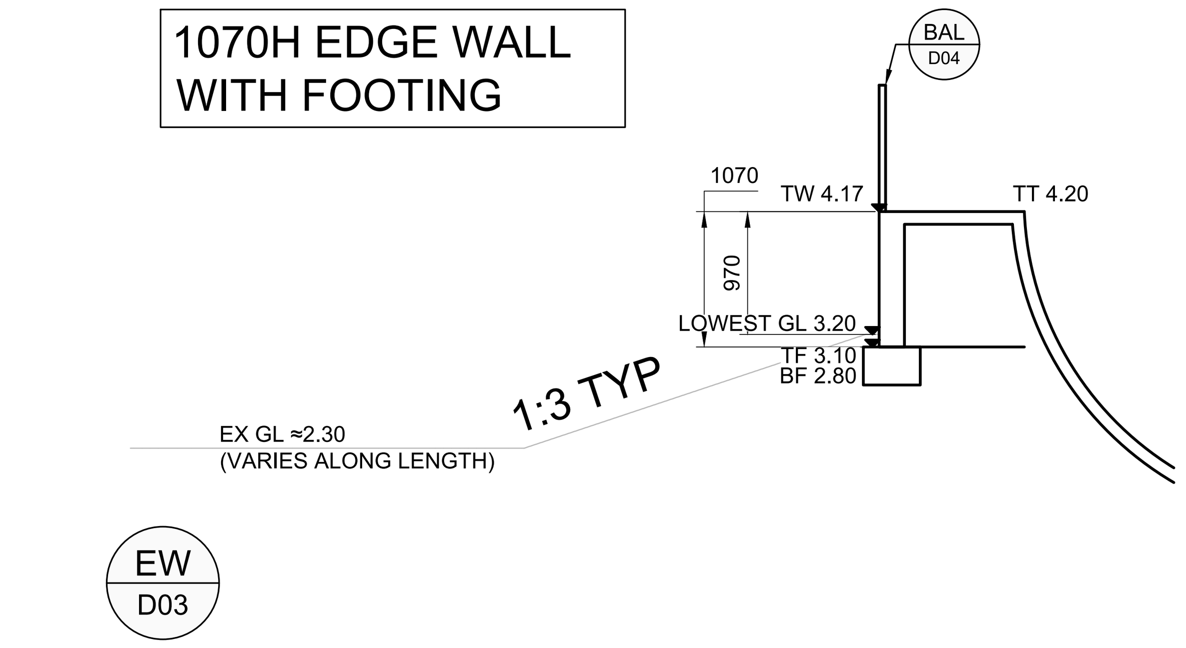
W-2 EDGE WALL PROFILE
S02 SCALE: 1:50

970H THICKENED EDGE 300 BOTTOM COVER



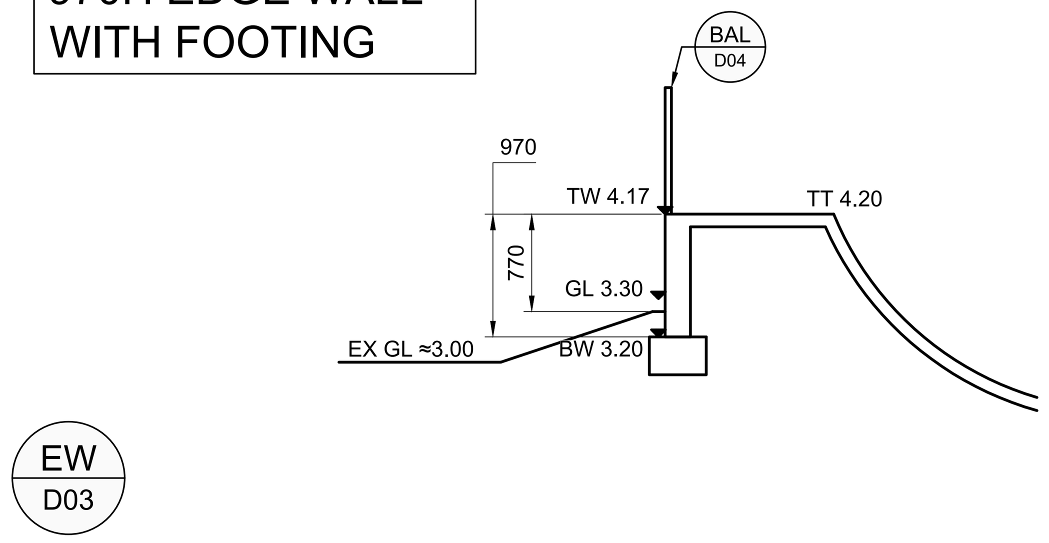
W-3 EDGE WALL PROFILE
S02 SCALE: 1:50

1070H EDGE WALL WITH FOOTING



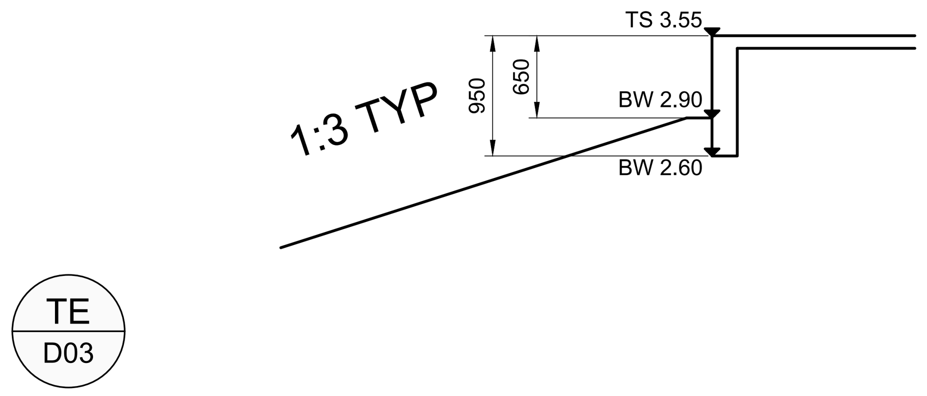
W-4 EDGE WALL PROFILE
S02 SCALE: 1:50

970H EDGE WALL WITH FOOTING



W-5 EDGE WALL PROFILE
S02 SCALE: 1:50

950H THICKENED EDGE 300 BOTTOM COVER



W-5 EDGE WALL PROFILE
S02 SCALE: 1:50

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PFC: PFC CHANEL COPING 150X75X9.5 PFC TD03

POOL: POOL BLOCK COPING TILE. SEE MP-SP-D07 POOL TD01

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

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TOWN OF VICTORIA PARK

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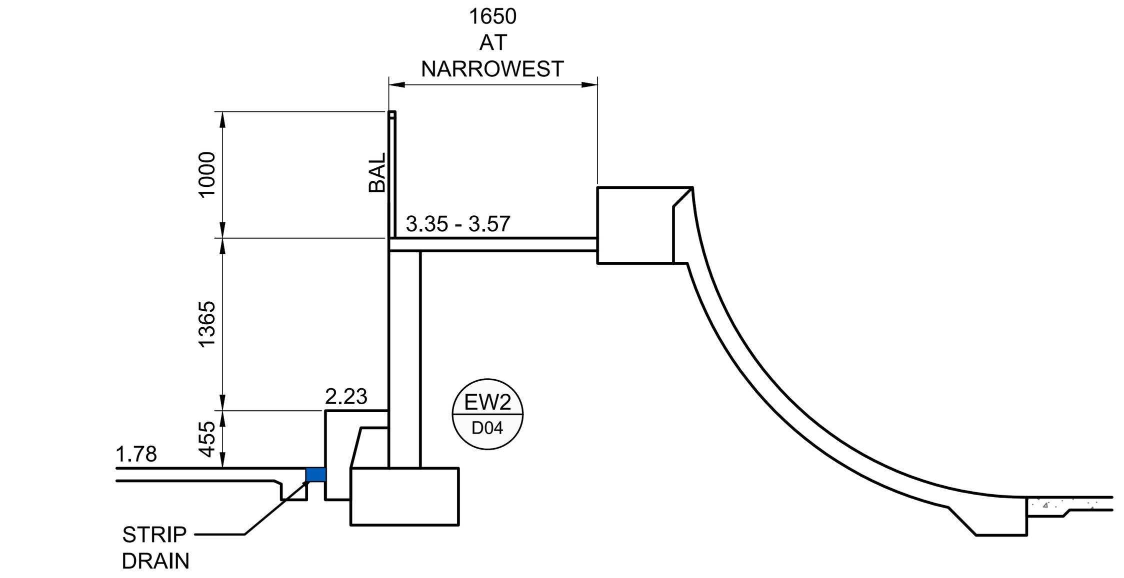
SCALE @ A1:
NA

DETAILS SHEET 2

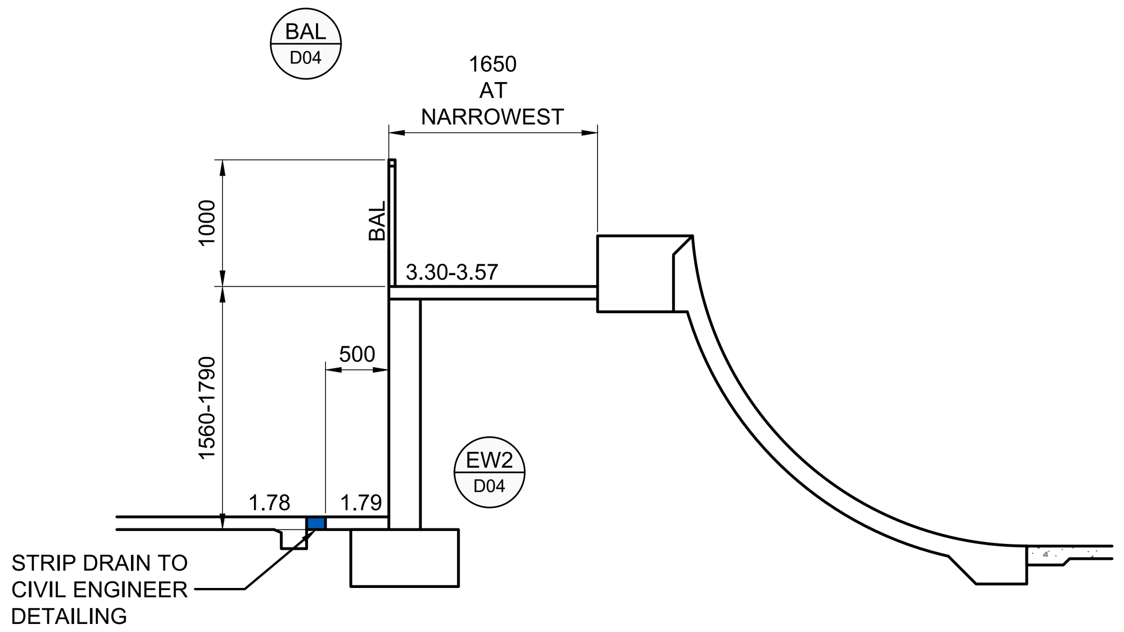
DRAWING NUMBER:
MP2-SP-S2

REV
E



L-2 EDGE WALL AND TERRACE TO PLAZA EDGE
S03 SCALE: 1:50

OPTION B
(wall to terrace step)



L-2 EDGE WALL AND TERRACE TO PLAZA EDGE
S03 SCALE: 1:50

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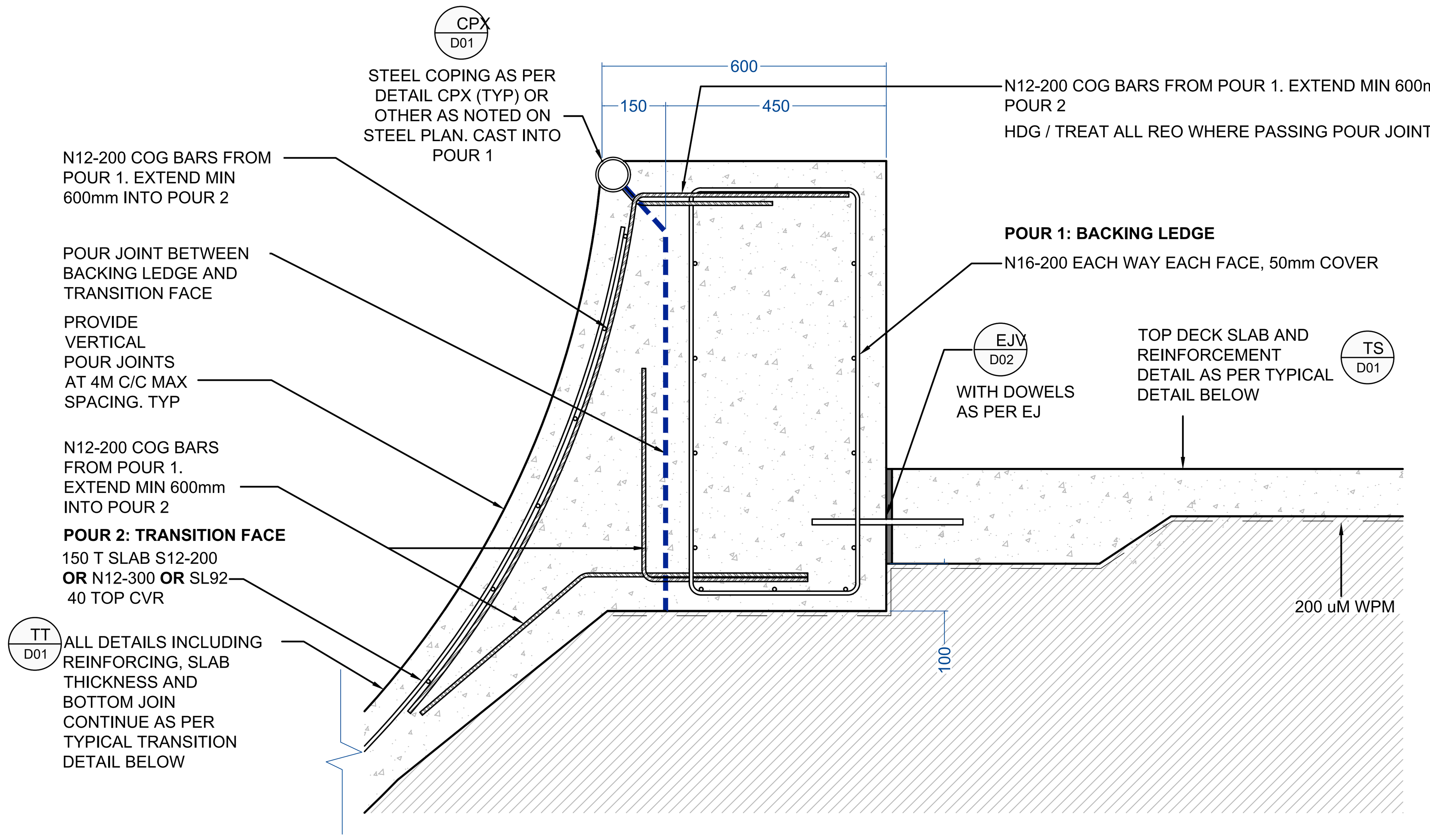
SCALE @ A1:
NA

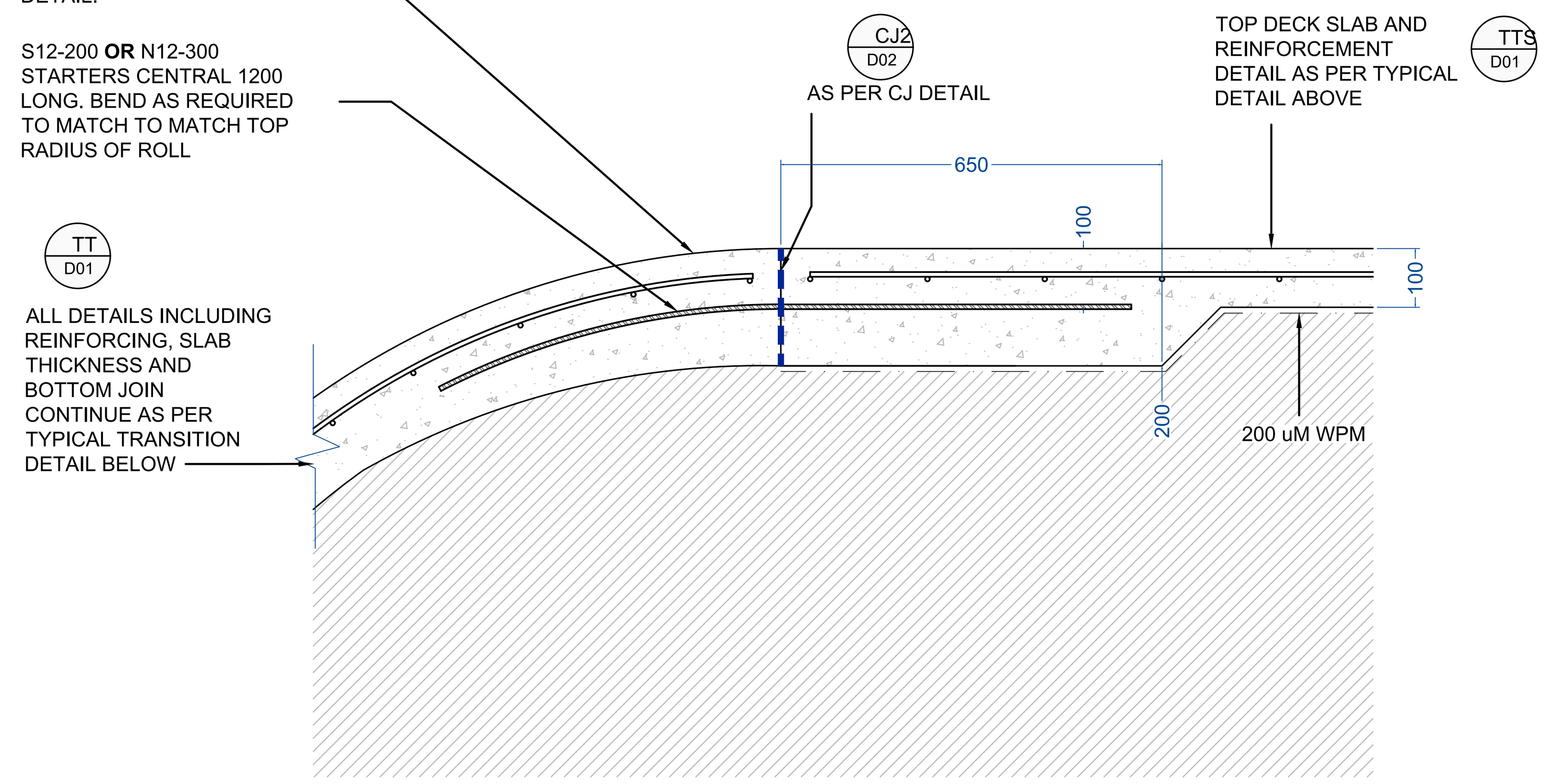
DETAILS SHEET 3

DRAWING NUMBER:
MP-SP-D03

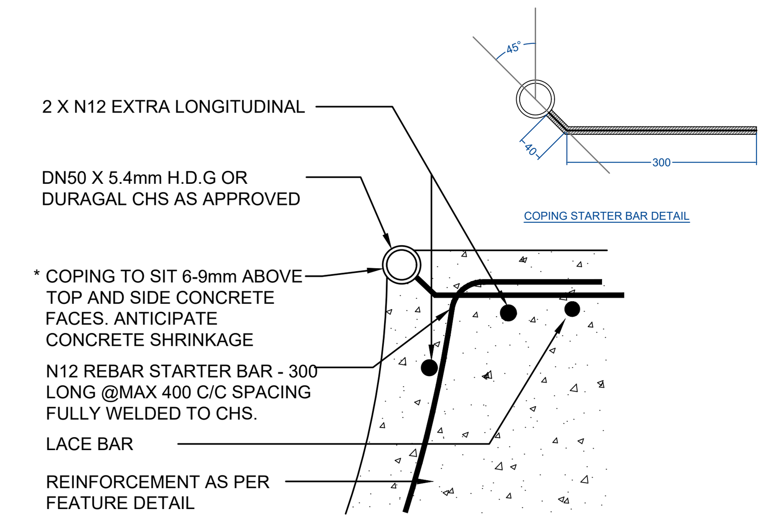
REV
E



TEX | **TYPICAL TRANSITION EXTENSION (VERTICAL)**
- | 1:10

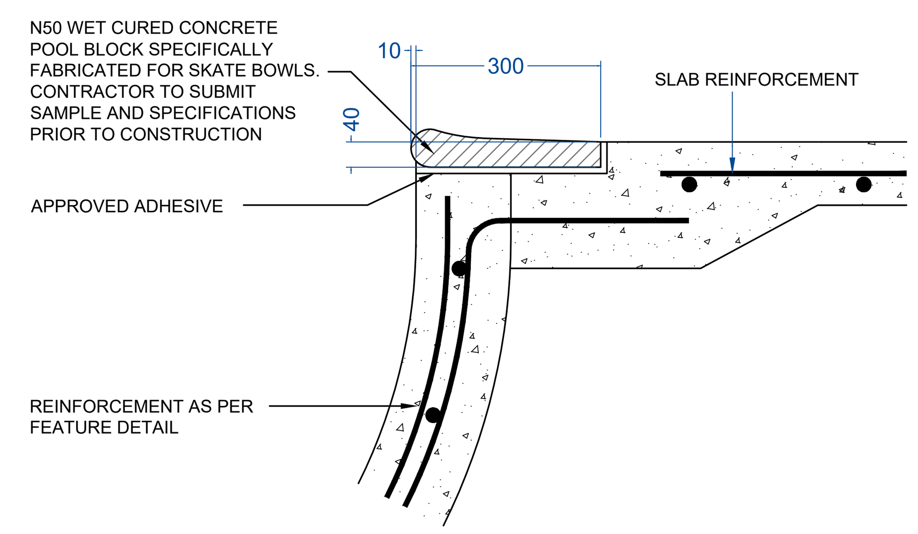


TRI | **TYPICAL JOIN - TOP OF ROLL IN**
- | 1:10



* NOTE: CPX COPING OFFSET IS A CRITICAL DIMENSION FOR FUNCTION OF SKATEPARK. 6-9mm IS TO BE TARGETED WHEN FINISHING CONCRETE. MEASURE AND NOTIFY SUPERINTENDENT FOLLOWING COMPLETION FOR REVIEW. THE ADOPTED SKATEPARK STANDARD (EN 14974:2019), REQUIRES THIS DIMENSION TO COMPLY WITHIN A RANGE OF 5mm-20mm. DEVIATION OF OFFSET OF COPING OUTSIDE OF TOLERANCE DIMENSIONS WILL REMOVAL AND RE-BUILD AT CONTRACTORS EXPENSE.

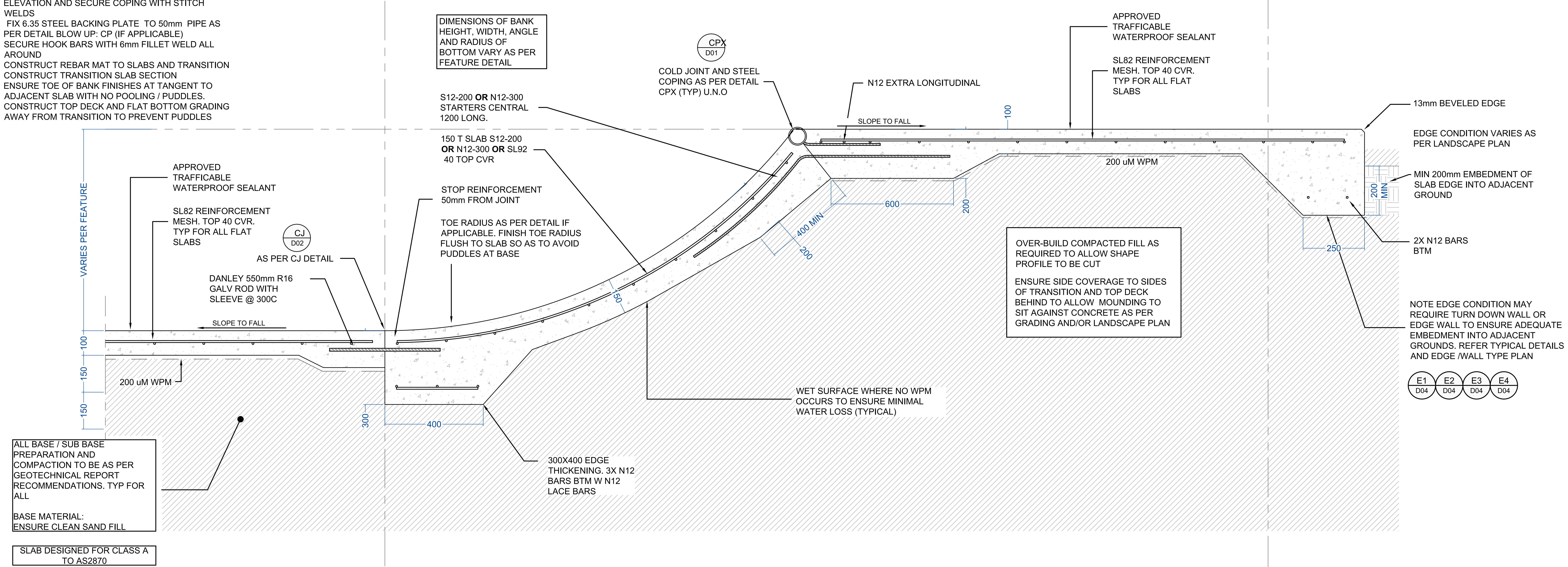
CPX | **CHS COPING**
- | 1:10



POOL | **POOL COPING**
- | 1:10

TYPICAL CONSTRUCTION SEQUENCE: TRANSITIONS

1. CONSTRUCT SLOPE STABILIZATION SLAB WITH EXPOSED REBAR BENDS PROTRUDING WILD
2. PREPARE SUB GRADE MATERIAL
3. CUT EXPOSED REBAR BENDS TO CORRECT ELEVATION AND SECURE COPING WITH STITCH WELDS
4. FIX 6.35 STEEL BACKING PLATE TO 50mm PIPE AS PER DETAIL BLOW UP: CP (IF APPLICABLE)
5. SECURE HOOK BARS WITH 6mm FILLET WELD ALL AROUND
6. CONSTRUCT REBAR MAT TO SLABS AND TRANSITION
7. CONSTRUCT TRANSITION SLAB SECTION
8. ENSURE TOE OF BANK FINISHES AT TANGENT TO ADJACENT SLAB WITH NO POOLING / PUDDLES.
9. CONSTRUCT TOP DECK AND FLAT BOTTOM GRADING AWAY FROM TRANSITION TO PREVENT PUDDLES



TS | **TYPICAL FLAT SLAB DETAIL**
- | 1:10

TT | **TYPICAL TRANSITION DETAIL**
- | 1:10

TSE | **TYPICAL SLAB EDGE DETAIL**
- | 1:10

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STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	20.01.2025	COORDINATION
B	30.01.2025	COORDINATION
C	13.02.2025	PRE IFC REVIEW
D	05.03.2025	IFC
E	12.03.2025	SLABS SHOWN AT 100mm T

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PROJECT
McCALLUM PARK (BOWL 2 COMPONENT) SKATEPARK
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

N

SCALE @ A1:
NA

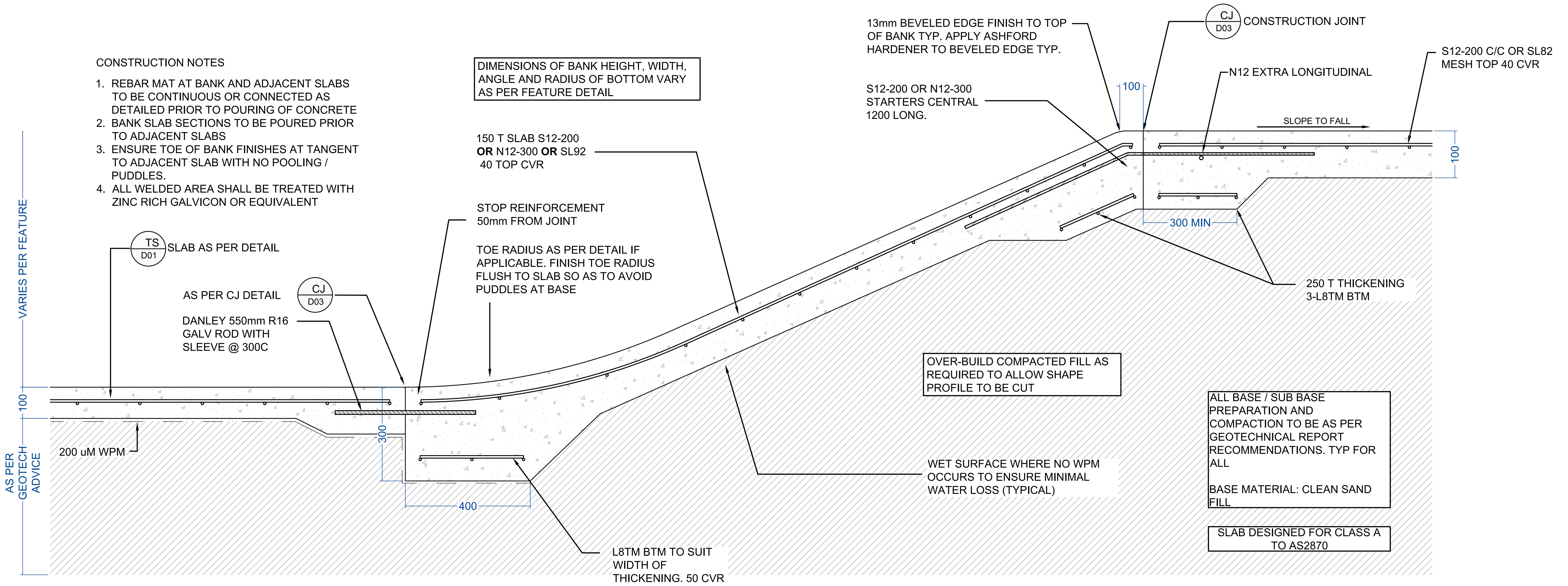
TYPICAL DETAILS SHEET 1

DRAWING NUMBER:
MP2-SP-TD01

REV
E

CONSTRUCTION NOTES

1. REBAR MAT AT BANK AND ADJACENT SLABS TO BE CONTINUOUS OR CONNECTED AS DETAILED PRIOR TO POURING OF CONCRETE
2. BANK SLAB SECTIONS TO BE POURED PRIOR TO ADJACENT SLABS
3. ENSURE TOE OF BANK FINISHES AT TANGENT TO ADJACENT SLAB WITH NO POOLING / PUDDLES.
4. ALL WELDED AREA SHALL BE TREATED WITH ZINC RICH GALVICON OR EQUIVALENT



TB | **TYPICAL BANK DETAIL**
- | 1:10

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SCALE @ A1:
NA

TYPICAL DETAILS SHEET 2

DRAWING NUMBER:
MP2-SP-TD02

REV
E

NOTES:

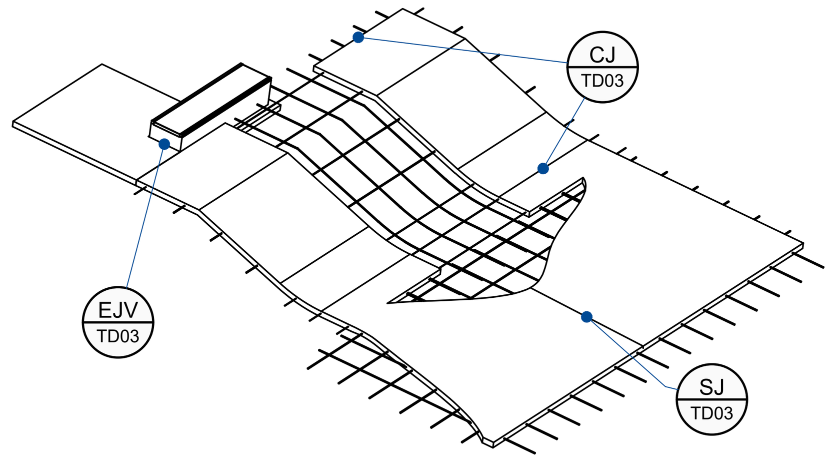
1. CONSTRUCTION OF ALL CONCRETE ELEMENTS WITHIN THE SKATEPARK ARE BEST COMPLETED IN THE FOLLOWING ORDER:
   A. FOOTINGS AND WALLS WITH FOOTINGS
   B. BANK SLAB SECTIONS, STEPS AND TRANSITIONS
   C. FLOOR SLAB
   D. WALL, LEDGES AND BOXES BUILT ON SLAB.

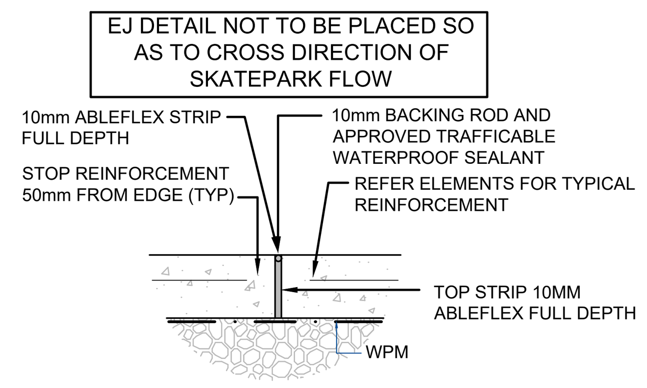
2. CAST IN PLACE CONCRETE SLAB SECTIONS SHALL BE CONSTRUCTED IN AN ALTERNATING ARRANGEMENT SO THAT EVERY OTHER SLAB SECTION IS COMPLETED PRIOR TO THE POURING OF THE INFILL SLAB SECTION. THIS SYSTEM PROVIDES EDGE FORMING FOR EVERY ALTERNATE SLAB SECTION AND HELPS ENSURE QUALITY CONTROL. NO SLAB SECTIONS SHALL EXCEED 4.0M (LINEAR) IN SIZE WITHOUT CONTROL JOINTING. -SEE CONCRETE SPECS.

3. COLD JOINTS ARE PROVIDED BETWEEN EACH SLAB SECTION. PLACE TIE BARS AND DOWELS OR CONTINUOUS REBAR (ROUND DEFORMED REINFORCING STEEL) THROUGH ALL SLAB SECTIONS AND FLOOR SLAB.

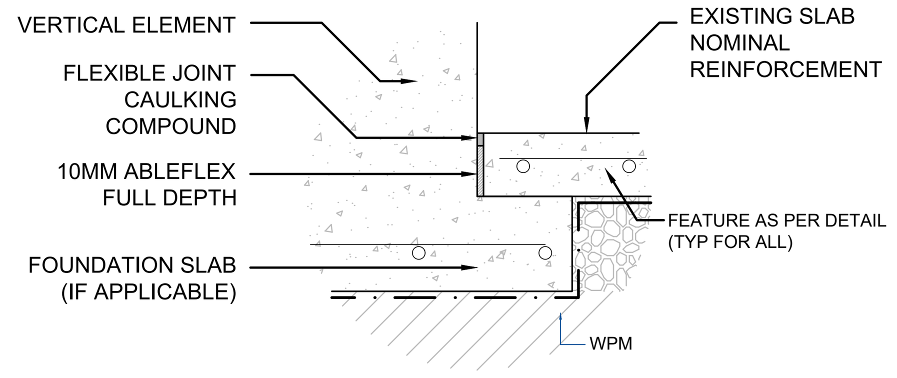
4. EXPANSION JOINTS: SHALL BE PLACED AT THE BASE OF ALL VERTICAL CONCRETE ELEMENTS SUCH AS LEDGES, STAIRS AND WALLS. UTILIZE JOINT COMPOUND NO GREATER THAN 6.25MM IN WIDTH TO HELP ELIMINATE TRIPPING OR IRREGULARITIES IN SKATING SURFACE.

5. SAW CUT PATTERN IS SHOWN TO PROVIDE DIRECTION. CONTRACTOR SHALL CUT SLAB AS NEEDED TO PREVENT CRACKING. SAW CUTS MUST BE MADE BEFORE ANY SIGNS OF THERMAL CRACKING. THERMAL CRACKING AS A RESULT OF INSUFFICIENT CRACK CONTROL MAY RESULT IN UN-SKATEABLE SURFACES AND MAY NEED TO BE REPLACED.

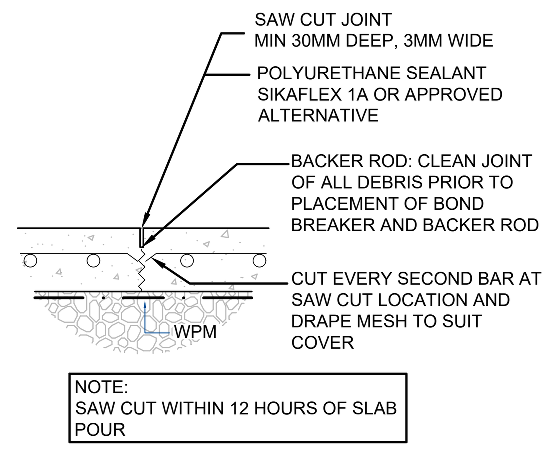




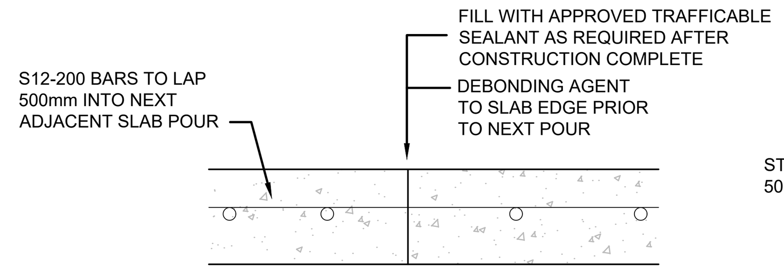
EJ **TYPICAL EXPANSION JOINT DETAIL**
1:10



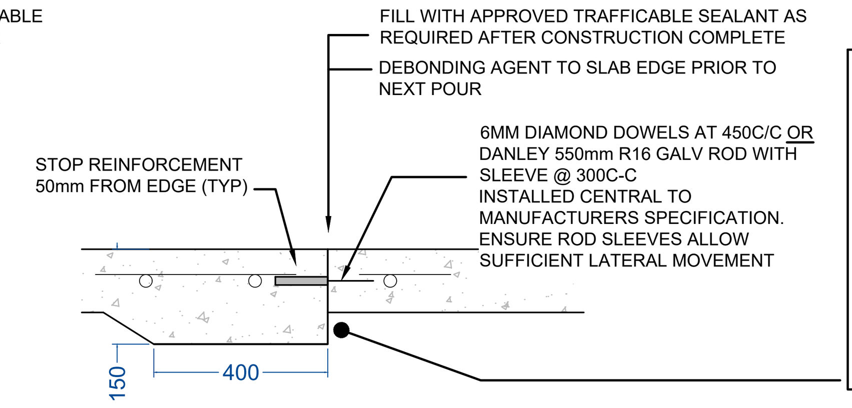
EJV **TYPICAL EXPANSION JOINT AT VERTICAL**
1 : 10



SJ **TYPICAL SAW CUT**
1 : 10



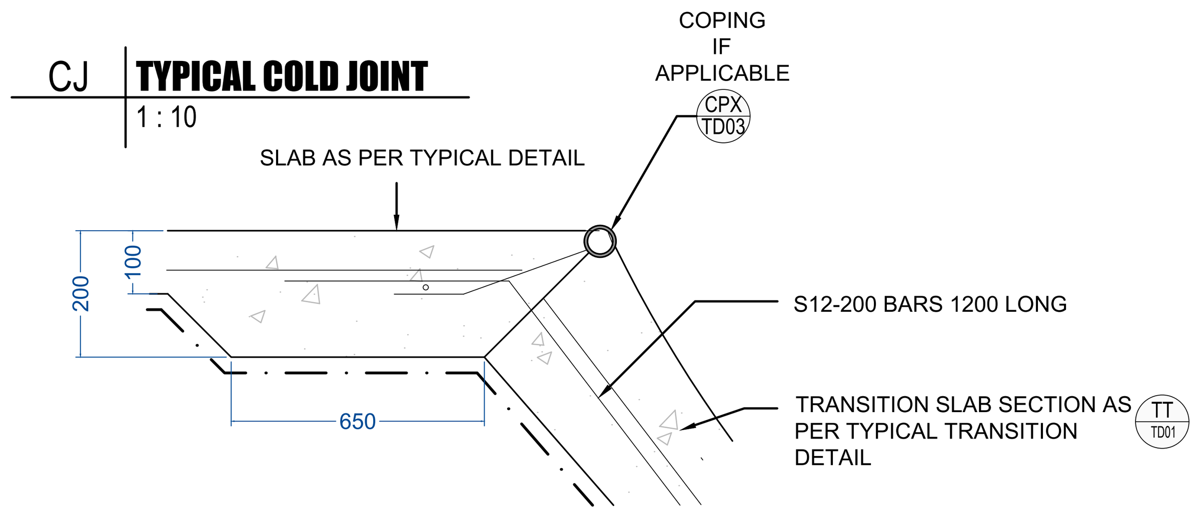
PJ **CHANGE IN POUR**
1 : 10



TYPICAL COLD JOINT AS SHOWN TO BE LOCATED IN THE FOLLOWING INSTANCES:
-BANK TOE TO FLAT SLAB
-BANK TOP TO FLAT SLAB
-TRANSITION TOE TO FLAT SLAB
-TRANSITION TOP TO FLAT SLAB WHERE NO STEEL COPING INCLUDED
-FLAT SLAB TO FLAT SLAB

THICKENED SLAB IS NOT REQUIRED BETWEEN ALTERNATING SLAB SECTION POURS FOR BANKS AND TRANSITIONS AS OUTLINED IN **CONSTRUCTION SEQUENCE NOTES ON CONCRETE AND JOINT PLAN**

CJ **TYPICAL COLD JOINT**
1 : 10



CJ2 **TYPICAL COLD JOINT (TOP OF TRANSITION)**
1 : 10

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
ALL STEEL GRINDING EDGES AND STEEL COPING SHALL BE: DURAGAL OR EQUAL APPROVED

ALL METAL WORK SHALL STRICTLY ADHERE TO THE SPECIFIED WALL THICKNESS. ALL METAL WORK SHALL BE GROUND IN SHOP AND JOINED PIECES HOT DIP GALVANIZED PRIOR TO DELIVERY TO SITE. NO MILL SCALE ON METAL SHALL BE TOLERATED. ALL SITE WELDING SHALL BE PRIMED, RETOUCHED AND PAINTED WITH A ZINC RICH SILVER GALVANIZING PAINT (U.N.O) PRIOR TO COMPLETION.

RSP: NB50 X 4.5 CHS. (RM TD03)

CPX: CP: NB50 X 4.5 CHS. (CPX TD01)

SST: 50mm x 50mm x 4mm SQUARE HSS (SST TD03)

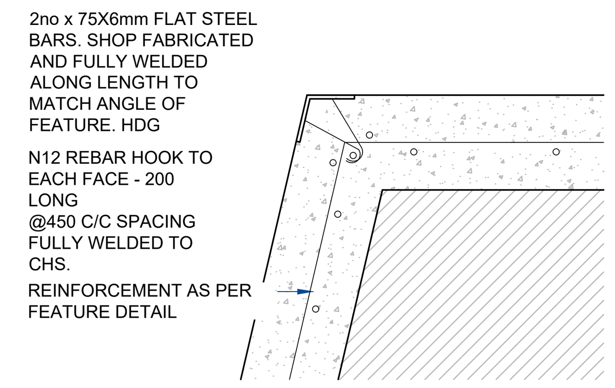
FB50: 50mm x 6mm FLAT STEEL BAR (FSB TD03)

FBX2: 2X 100mmX6mm FLAT BAR WELDED TO ANGLE MATCHING TOP OF BANK (FBX2 TD03)

PFC: PFC CHANEL COPING 150X75X9.5 (PFC TD03)

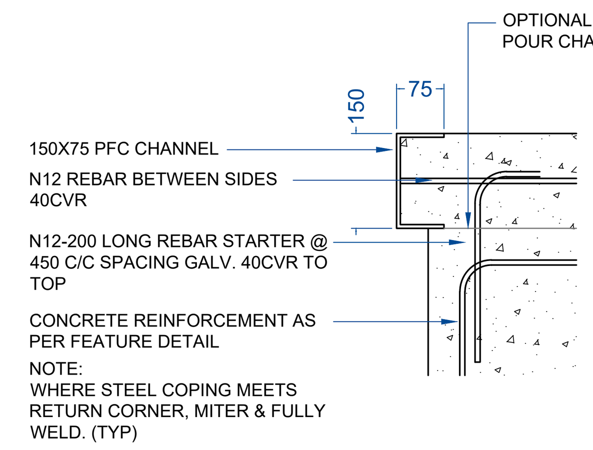
POOL: POOL BLOCK COPING TILE. SEE MP-SP-D07 (POOL TD01)

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

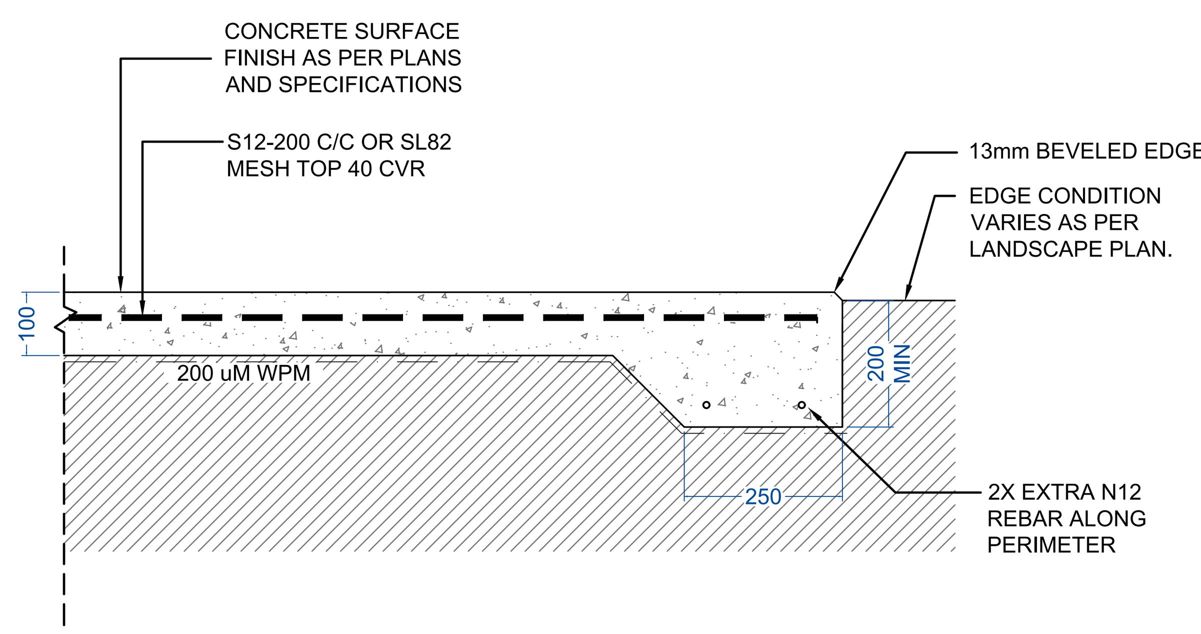


FB X 2 ANGLED FLAT STEEL BAR COPING
SCALE: 1:10

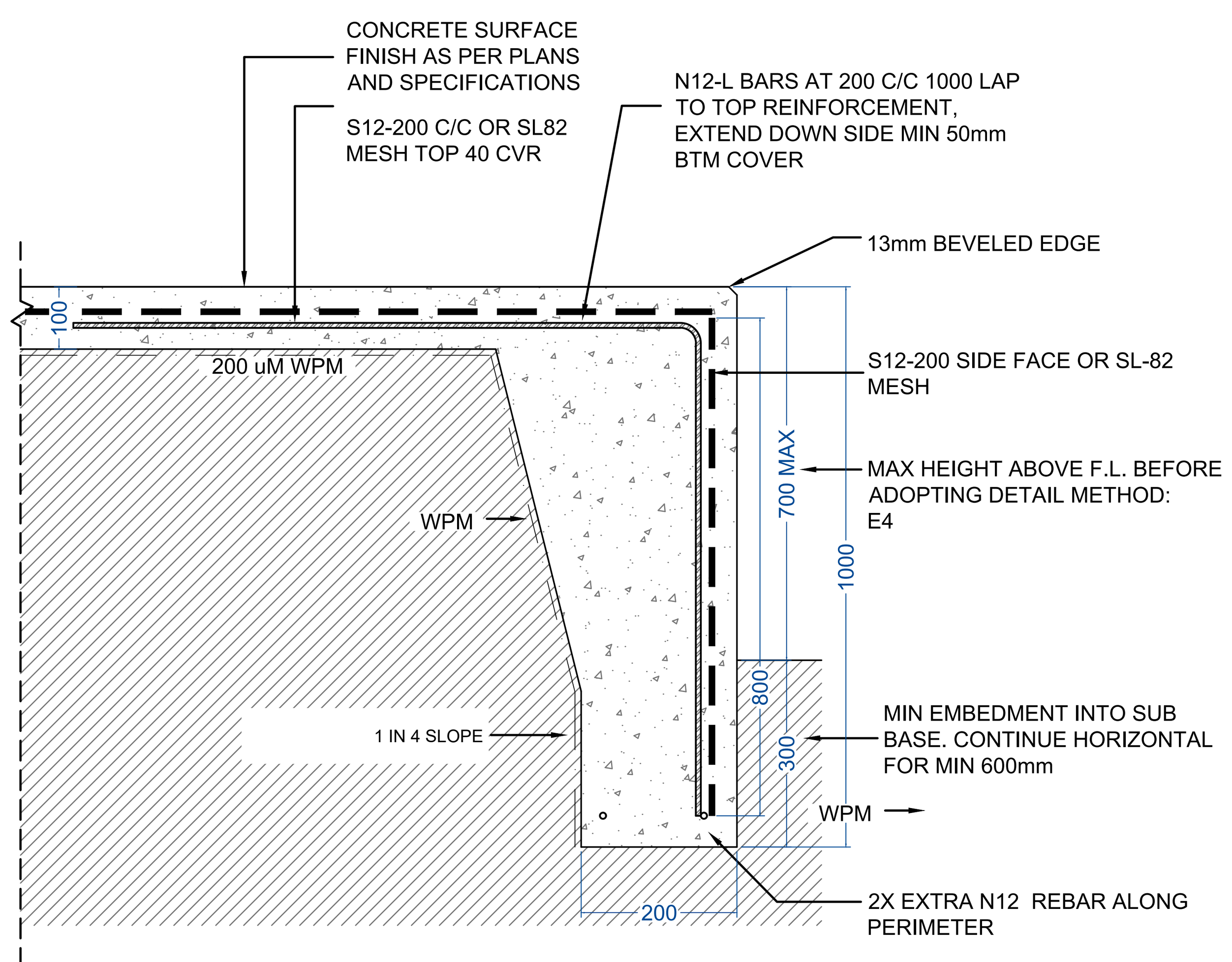
ALL CAST IN BAR / CHS / SHS ELEMENTS AND HOOK RODS TO BE PRE WELDED AND H.D.G TYP.



PFC PFC COPING
SCALE: 1:10

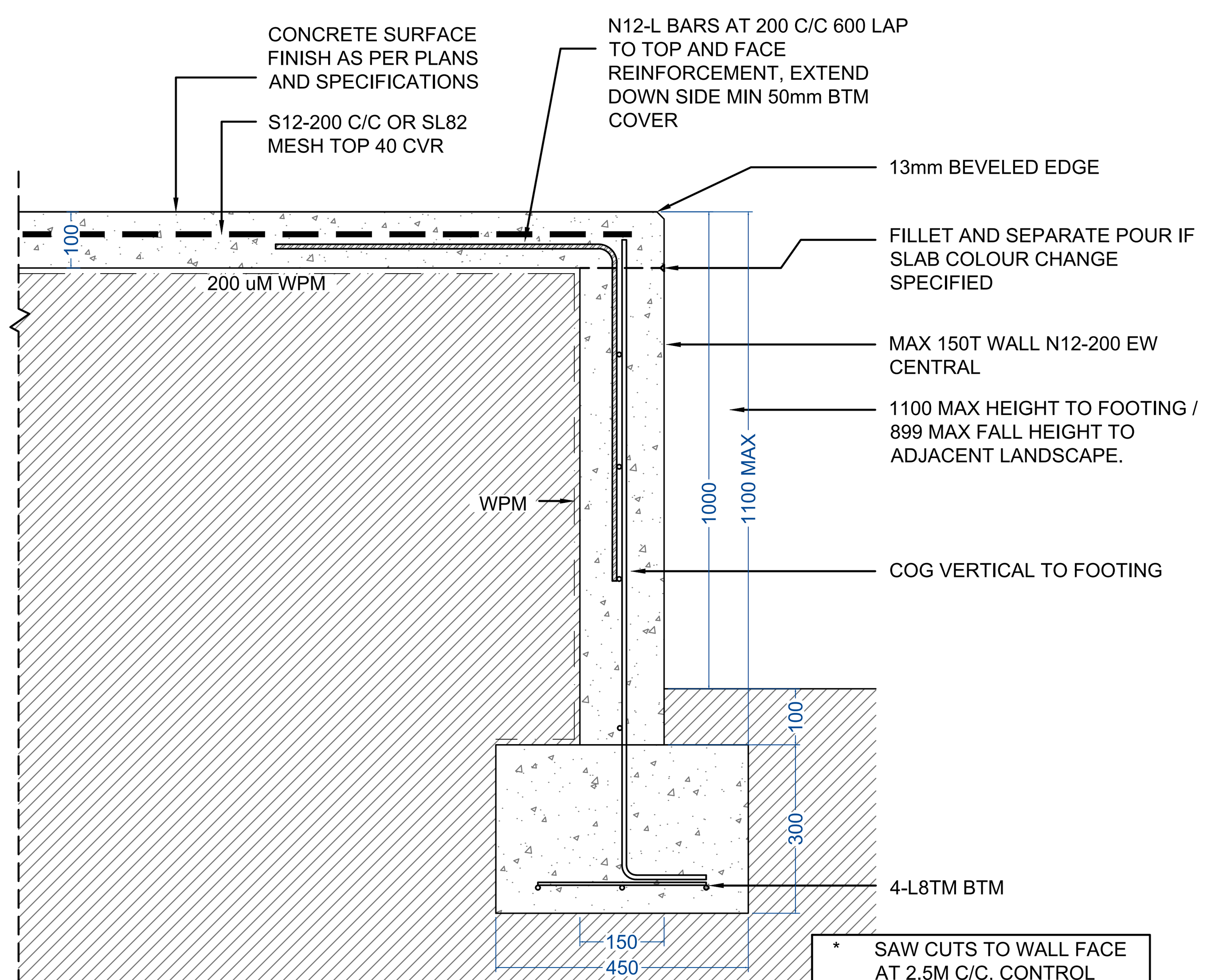


TSE **TYPICAL EDGE OF SLAB - REGULAR**
- 1:10



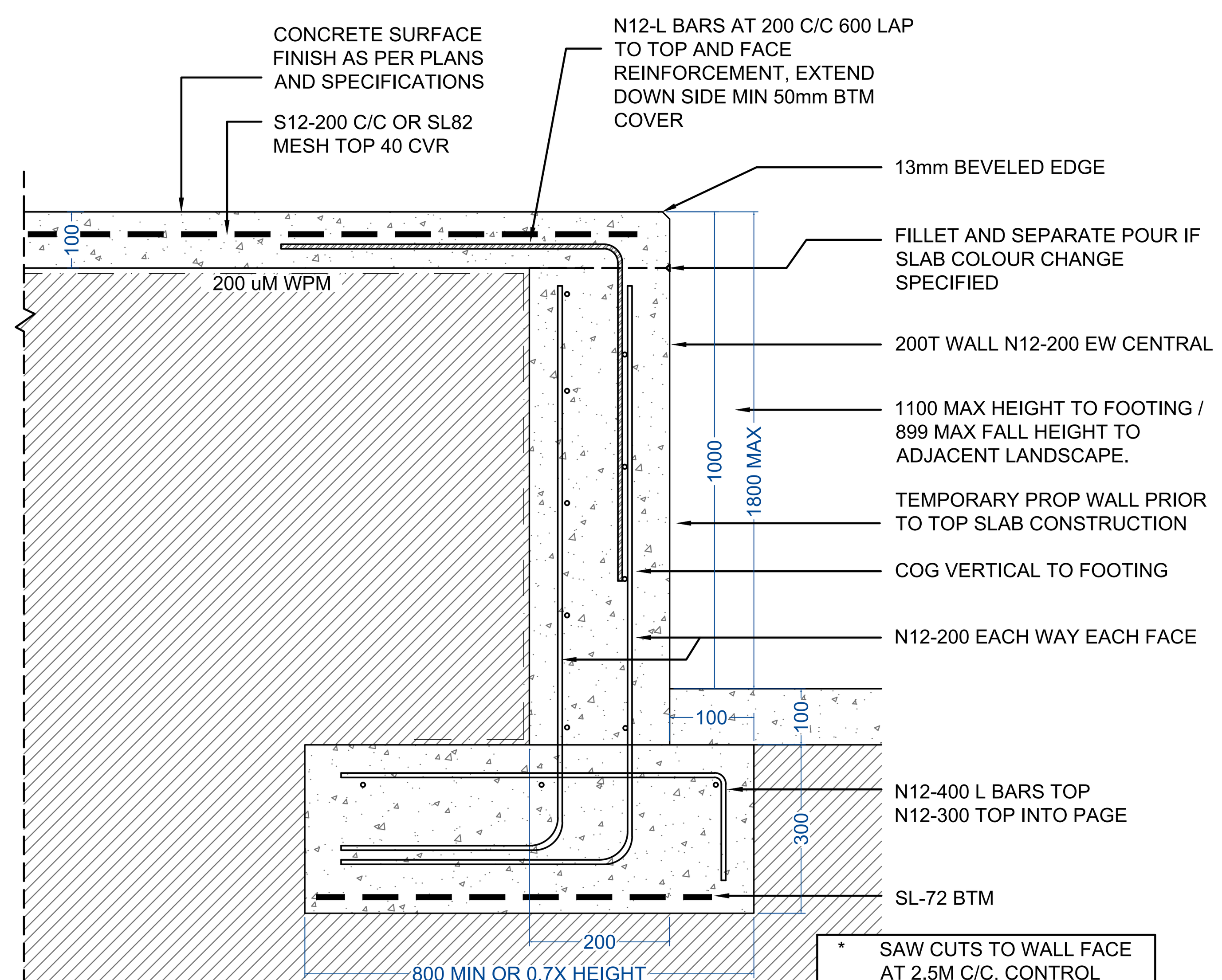
* SAW CUTS TO WALL FACE AT 2.5M C/C,

TE **THICKENED EDGE/TURN DOWN WALL**
- 1:10



* SAW CUTS TO WALL FACE AT 2.5M C/C, CONTROL JOINTS AT 10M C/C

EW **TYPICAL EDGE WALL TO MAX 1100H ABOVE FL**
- 1:10



* SAW CUTS TO WALL FACE AT 2.5M C/C, CONTROL JOINTS AT 10M C/C

EW2 **TYPICAL EDGE WALL TO MAX 1800H ABOVE FL**
- 1:10

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SCALE @ A1:
NA

TYPICAL DETAILS SHEET 3

DRAWING NUMBER:
MP2-SP-TD03

REV
E

TL | TYPICAL LEDGE / SEAT WALL
- | 1:10

REINFORCEMENT:
WHERE LEDGE < 2M LONG AND <500mm W: N12-200 EACH WAY, TOP, BTM AND SIDES. LAP 600MM TYP. COG ENDS AT CORNERS TYP.
WHERE LEDGE > 2M LONG: N16-200 EACH WAY, TOP, BTM AND SIDES. LAP 600MM TYP. COG ENDS AT CORNERS TYP.

ALTERNATIVELY, USE S12-100C/C EACH WAY TOP/BTM AND SIDES. LAP 400MM TYP, COG ENDS AT CORNERS.

JOINTS:
WHERE LEDGE < 4.5m NO JOINT REQUIRED
WHERE LEDGE > 4.5m <6m SAW JOINT AT 2m C/C
WHERE LEDGE > 6m, SAW JOINT AT 2m C/C WITH EXPANSION JOINT AT 6m C/C

FSB SST SST (TD03)
FSB,SST OR LCT TYPICAL DETAIL AS NOTED ON DETAIL. REFER STEEL PLAN

EJV (TD03)
WHERE WALL SITS ADJACENT TO SLAB

TS (TD01)
SLAB AS PER TYPICAL DETAIL

VARIES
VARIES
VARIES
150
250

TL-SC | TYPICAL LEDGE / WALL SAW CUT
- | 1:10

6mm W X 30mm D SAWN JOINT WITHIN 6 HOURS OF POUR. SEAL WITH SEALANT
REINFORCEMENT AS PER TYP DETAIL
SC

TL-EJ | TYPICAL LEDGE / WALL EXPANSION JOINT
- | 1:10

NOTE: EXPANSION JOINT IN LEDGE IS NOT TO BE USED IN 'SKATEABLE' LEDGES THAT CONTAIN EDGE COPING AND IS INCLUDED ONLY FOR NON-SKATE WALLS OR CONCRETE LEDGES / WALLS WITH NO STEEL COPING. NOTIFY SUPERINTENDENT OR DESIGN REPRESENTATIVE FOR CONFIRMATION BEFORE PREPARING ANY EXPANSION JOINTS TO SKATEPARK LEDGE FEATURES THAT INCLUDE STEEL COPING

10mm ABLEFLEX BACKING ROD AND SEALANT
REINFORCEMENT AS PER TYP DETAIL
EJ
R10-400 LONG DOWELS AT 400C/C EACH FACE DENSO WRAP ONE END

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
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CPX: CP: NB50 X 4.5 CHS. (CPX TD01)
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FB50: 50mm x 6mm FLAT STEEL BAR (FSB TD03)
FBX2: 2X 100mmX6mm FLAT BAR WELDED TO ANGLE MATCHING TOP OF BANK (FBX2 TD03)
PFC: PFC CHANEL COPING 150X75X9.5 (PFC TD03)
POOL: POOL BLOCK COPING TILE. SEE MP-SP-D07 (POOL TD01)
NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

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TST | TYPICAL STAIR DETAIL
- | 1:20

INCREASE EDGE THICKENING TO SUIT SHOWN DIMENSIONS AT STAIR LOCATION.

MIN 150T STAIRS
RISER GOING TO SUIT PLAN
S12-150 EACH WAY 40mm COVER TYP

100X50X6 ANGLE IRON TO ALL RISERS. CONNECT TO STAIR REINFORCEMENT WITH N12-200 LONG REBAR HOOK @ 450 C/C SPACING FULLY WELDED TO SHS. GALV PROVIDE ADDITIONAL 100mm GALV STUD.
COVER EXPOSED SIDES OF STAIRS WITH 100X6 GALV AND PAINTED FLAT STEEL BAR

TS (TD01)
EJV (TD03)
150
150 MIN
MIN 150 THROAT
150 MIN
400
100
50CVR
MIN 200
100
50

TMP | TYPICAL MANUAL PAD
- | 1:10

FSB SST PFC (TD03)
FSB, SST OR PFC AS PER TYPICAL DETAIL
REFER STEEL PLAN

EJV (TD03)
WHERE WALL SITS ADJACENT TO SLAB

TS (TD01)
SLAB AS PER TYPICAL DETAIL

WHERE LEDGE < 2M LONG AND <500mm W: N12-200 EACH WAY, TOP, BTM AND SIDES. LAP 600MM TYP. COG ENDS AT CORNERS TYP.
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ALTERNATIVELY, USE S12-100C/C EACH WAY TOP/BTM AND SIDES. LAP 400MM TYP, COG ENDS AT CORNERS.

VARIES TYP 900-1500
VARIES TYP 180-300
WPM
150 MIN150

BAL | TYPICAL BALUSTRADE DETAIL
- | 1:25

EXPOSED END TOP CORNERS OF BALUSTRADE TO HAVE 50mm OR GREATER CHAMFER. OR R50 FILLET (APPLY CONSISTENT TO ALL ENDS)

DIMENSION SCHEDULE AS PER AS 14974:2021

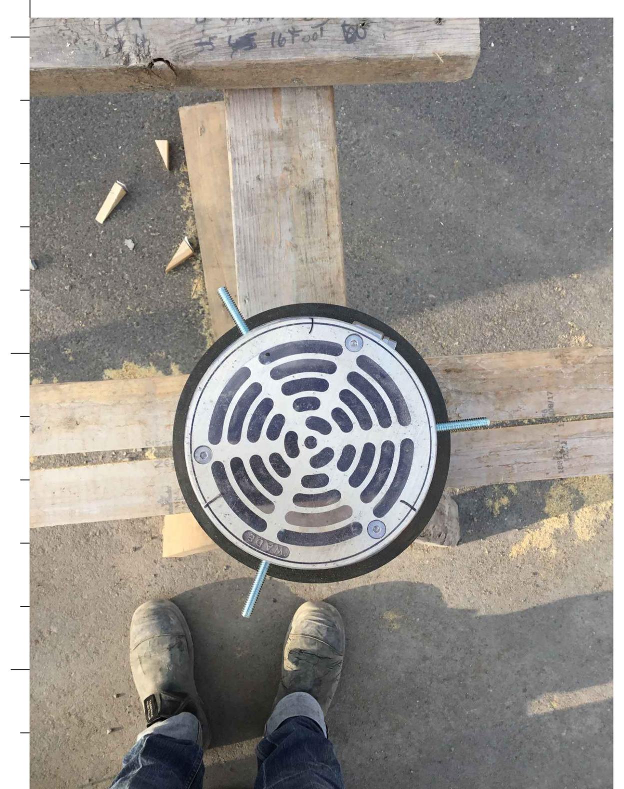
A: MAX BOTTOM GAP: 60mm
B: HORIZONTAL GAP: 89mm ±2mm
C: MIN HEIGHT 1200mm

NOTE MAX HEIGHT MUST BE ATTAINED AT LEAST 300mm FROM EDGE OF BARRIER (TOP OF TRANSITION)

MODDEX 'CONECTABAL' CB10 HANDRAIL SYSTEM. DESIGN DETAIL AND STRUCTURAL CERTIFICATION BY SUPPLIER
GALV FINISH

BALUSTERS AT 89mm CRS MAX.
BALUSTRADE SURFACE MOUNTED AS PER SUPPLIERS DESIGN
A
B
C

EXAMPLE OF MODIFIED AREA DRAIN SURROUND SO AS TO PREVENT SINKING BELOW FLUSH



FD | TYPICAL FLOOR DRAIN
- | 1:10

GALVIN HEEL DRAIN 100mm DIA OUTLET WITH 150mm DIA SS GRATE OR EQUAL APPROVED

REINFORCED CONCRETE SLAB. SEE TYPICAL DETAILS
2% SLOPE
2% SLOPE
13mm GAP MAX.

DRAIN SURROUND AND CLAMPING AS PER MANUFACTURER INSTRUCTIONS.

ENSURE ADEQUATE CONNECTION TO CONCRETE SLAB / TO PREVENT SINKING OF DRAIN RIM. SEE PIC

COMPACTED BASE / SUB BASE AS PER TYPICAL SLAB / FLAT BOTTOM DETAIL

100mmØ HDPE PIPE

PDP | PERFORATE DRAINAGE PIPE
- | 1:10

TYPICAL SLAB AND BASE (SEE TYPICAL SLAB DETAIL)
900mm min. WIDE FILTER FABRIC OVER THE TRENCH
900
DEPTH WILL VARY 450mm min.
7-12MM DIA. FILTER GRAVEL
100MM PERFORATED LATERAL DRAIN LINE, HOLES UP
200 min.
25MM DIA. DRAIN ROCKS BELOW PIPE, TYP.

HLDP | HARD LINE DRAINAGE PIPE
- | 1:10

TYPICAL SLAB AND BASE (SEE TYPICAL SLAB DETAIL)
900mm min. WIDE FILTER FABRIC OVER THE TRENCH
900
DEPTH WILL VARY 450mm min.
BACKFILL WITH IMPORTED GRANULAR MATERIAL OR APPROVED NATIVE MATERIAL AS SPECIFIED.
ALL HARD LINE DRAINAGE PIPE SECTIONS SHALL BE 150mm Ø PVC UNLESS OTHERWISE SPECIFIED
200 min.
50mm min. DEPTH BEDDING SAND AS SPECIFIED

KB | TYPICAL KERB DETAIL
- | 1:10

SST TO ALL TOP EDGES (SST TD03)
HSG N12 LIGS - 250 WELDED TO SHS, CRANK EXTEND AND DRILL/EPOXY MIN 150mm INTO BASE SLAB
SAW CUT OR TOOL JOINT AT 1.5M CC
EJ AT 6M CC
3 x N12 LONGITUDINAL
EDGE WALL, BANK, THICKENED SLAB OR THICKENED EDGE AS PER FEATURE CONTEXT
150
150

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TYPICAL DETAILS SHEET 4

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