WICKEPIN - SKATEPARK

ISSUE FOR: 90% TENDER

CLIENT: SHIRE OF WICKEPIN

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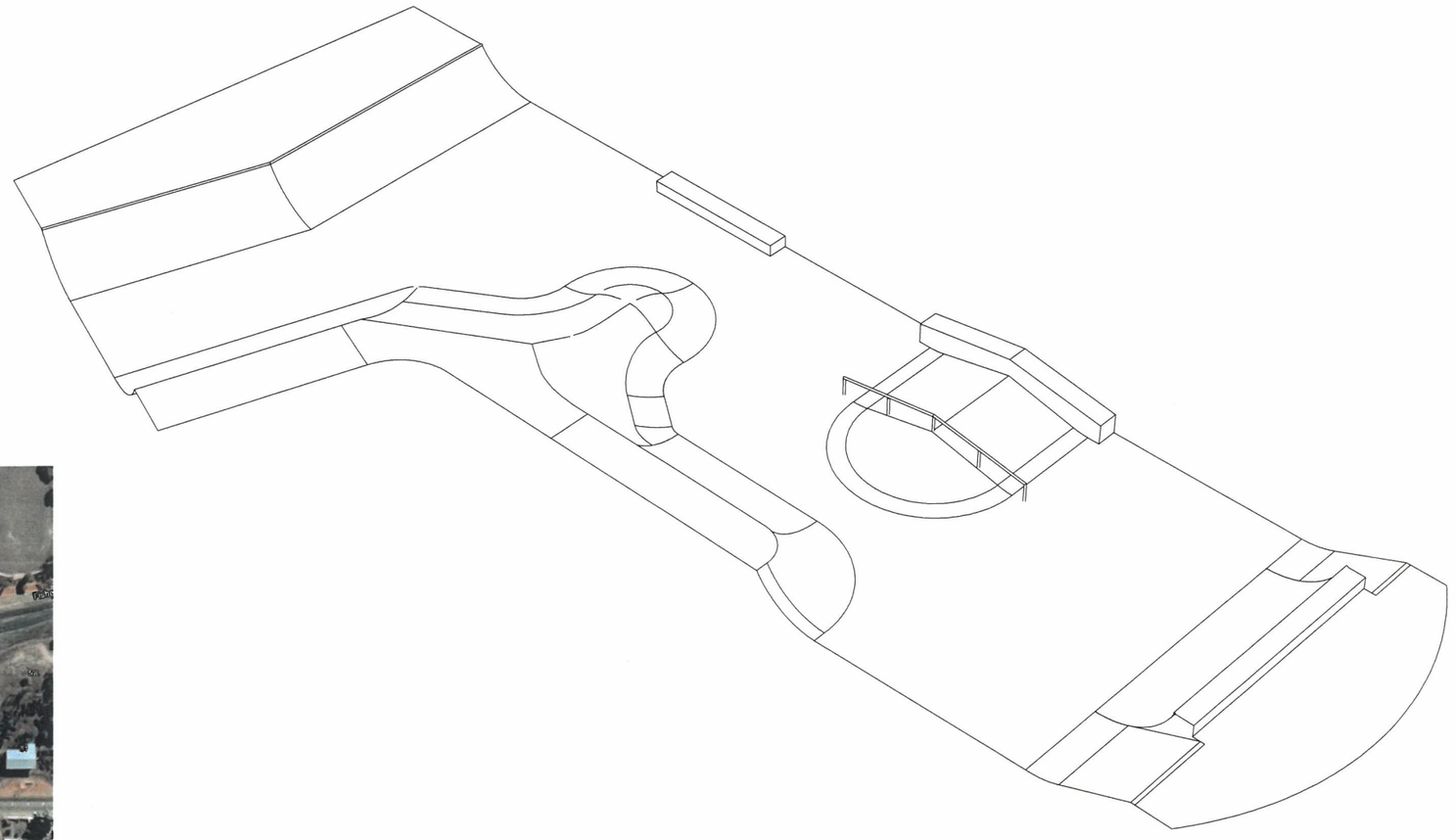
WK-SP-TD03	TYPICAL DETAILS SHEET 3
WK-SP-00N	GENERAL NOTES

DESIGN INTENT - PERSPECTIVE

*SHOWN FOR DESIGN INTENT ONLY.
IMAGE SHOWS GENERAL DESIGN INTENT AND GENERAL SCOPE OF WORKS.
PARK LAYOUT AS SHOWN IN THIS IMAGE IS SUPERSEDED BY PLANS AND DETAILS CONTAINED WITHIN THIS DRAWING SET



LOCATION PLAN

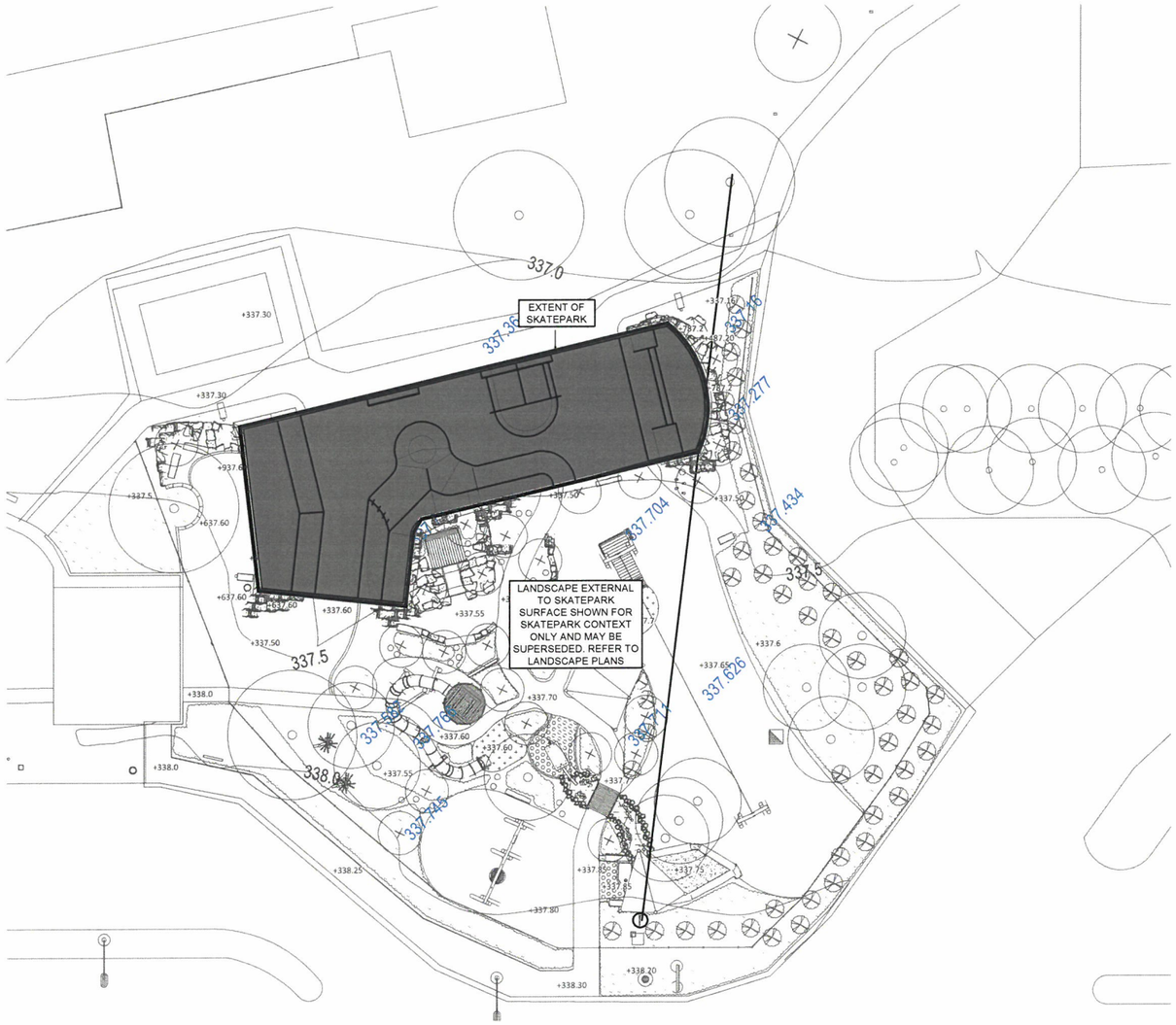
WOGOLIN ROAD, WICKEPIN WA

DESIGN BY (SKATEPARK) SKATE SCULPTURE 0450405510 ABN. 52 109 521 232 tim.vann@skatesculpture.com.au 1 Howlett st. North Perth 6006	STRUCTURAL ENGINEER STAMP WA STRUCTURAL	ISSUED FOR: A -- PRELIMINARY C 18.08.2020 90% TENDER	SIGNATURE OF AUTHORITY THIS DRAWING IS NOT TO BE USED FOR TENDER UNLESS SIGNED BY PRIMARY CONSULTANT HERE THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY PRIMARY CONSULTANT HERE	PROJECT WICKEPIN SKATEPARK PROJECT NUMBER CLIENT / LGA SHIRE OF WICKEPIN	SCALE @ A1: NA DRAWING NUMBER: WK-SP-CVR	SKATEPARK COVER PAGE REV C

LEGEND

EXTENT OF NEW SKATEPARK

+4685.30 SITE ELEVATION (IN METERS)



EXISTING SITE VIEW

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WICKEPIN SKATEPARK
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N

SCALE @ A1:
1:200
0 2 4 6 8 10 m

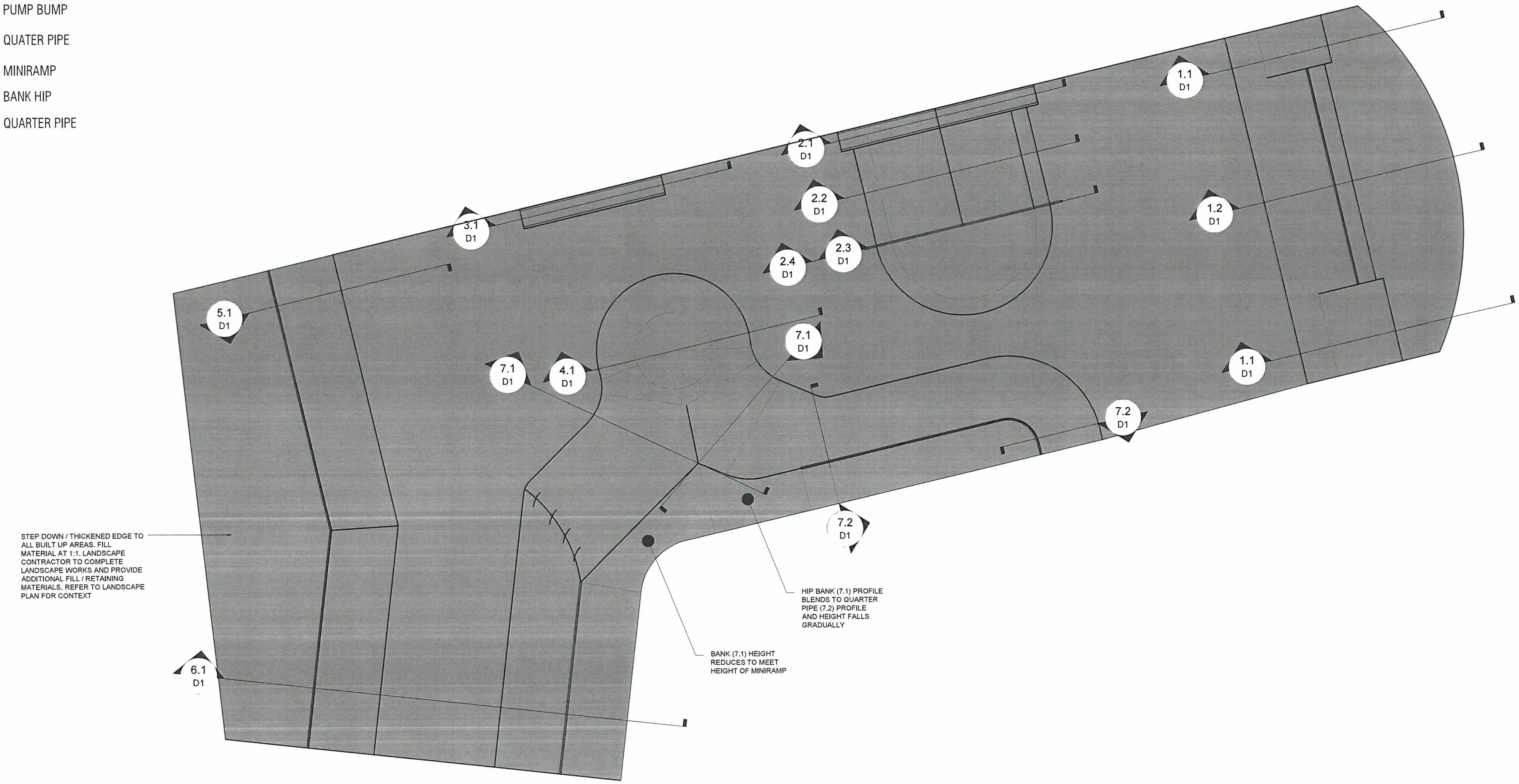
SITE CONTEXT PLAN

DRAWING NUMBER:
WK-SP-L00

REV
C

REFERENCE NOTES:

- 1.1 BANK / ROLL IN TO SIDES OF QP
- 1.2 QUARTER PIPE WITH EXTENSION
- 2.1 A FRAME LEDGE
- 2.2 A FRAME BANK
- 2.3 A FRAME RAIL
- 2.4 BANK VOLCANO
- 3.1 LEDGE
- 4.1 PUMP BUMP
- 5.1 QUATER PIPE
- 6.1 MINIRAMP
- 7.1 BANK HIP
- 7.2 QUARTER PIPE



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SCALE @ A1:
1:50

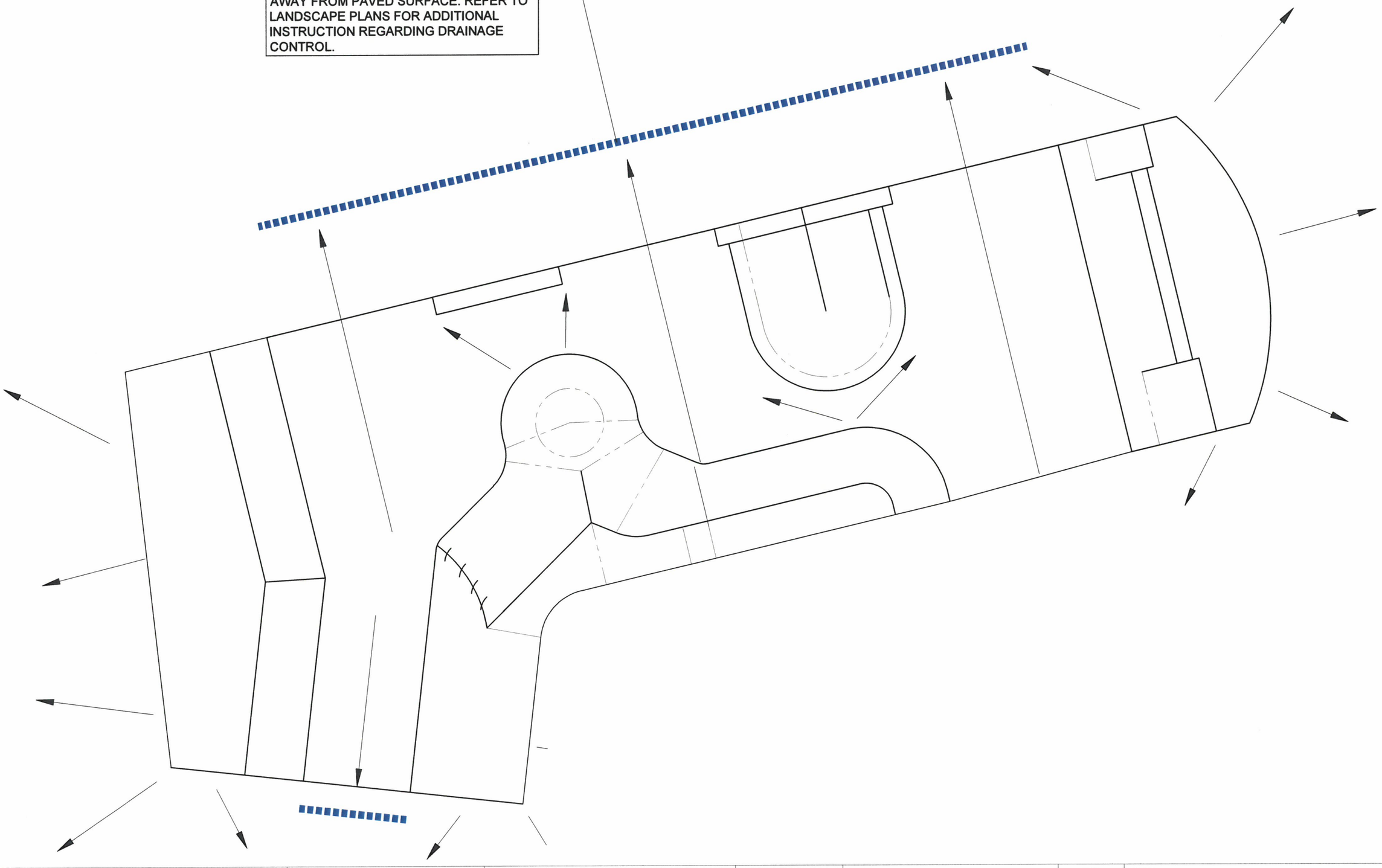
0 0.5 1 1.5 2 m

SKATEPARK PLAN

DRAWING NUMBER:
WK-SP-L01

REV
C

SLAB GRADES TO SHEET FLOW TO ADJACENT LANDSCAPE. ENSURE FALLS AWAY FROM PAVED SURFACE. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INSTRUCTION REGARDING DRAINAGE CONTROL.



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SCALE @ A1:
1:100

0 1 2 3 4 5 m

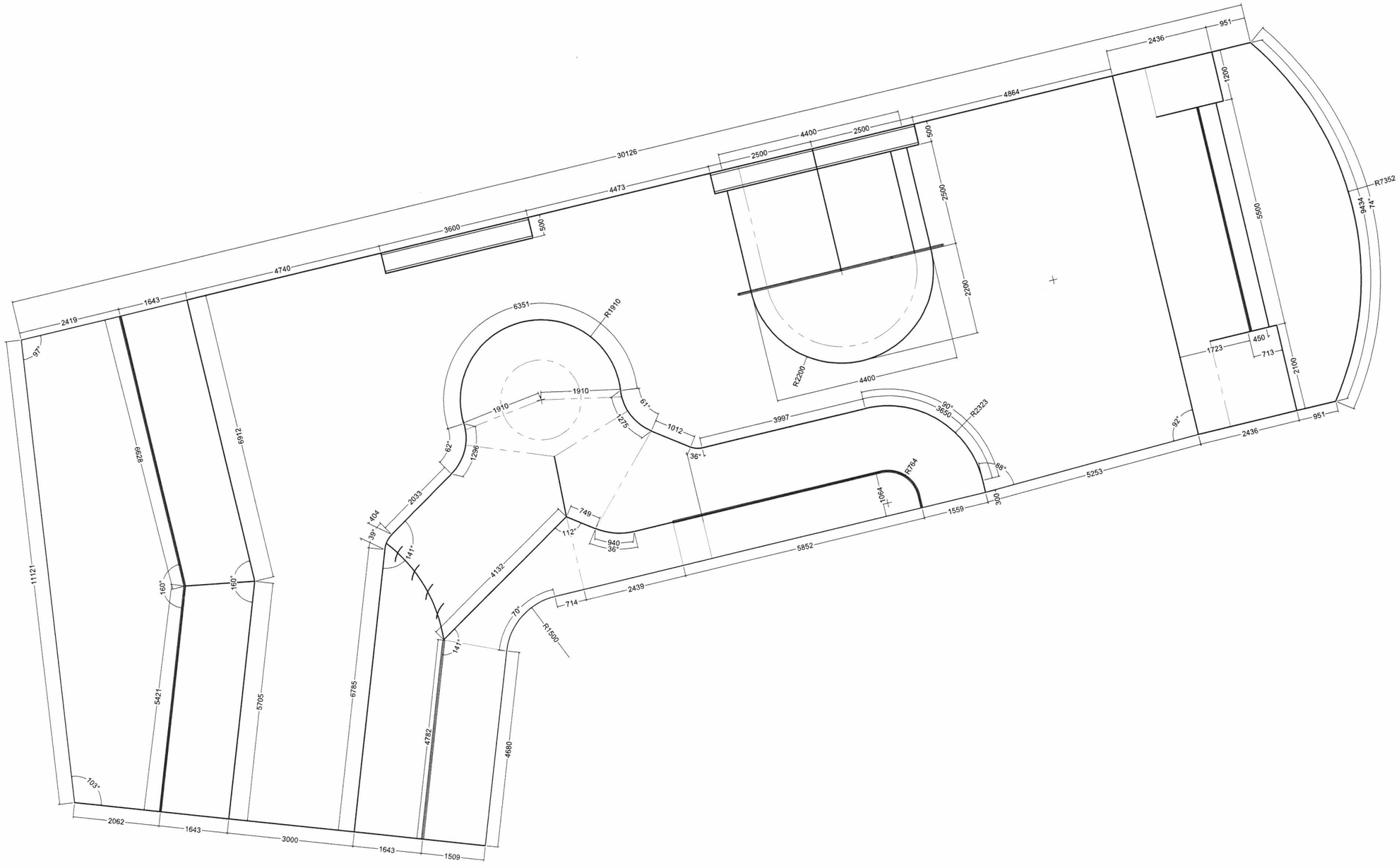
DRAWING NUMBER: WK-SP-L02

REV C

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

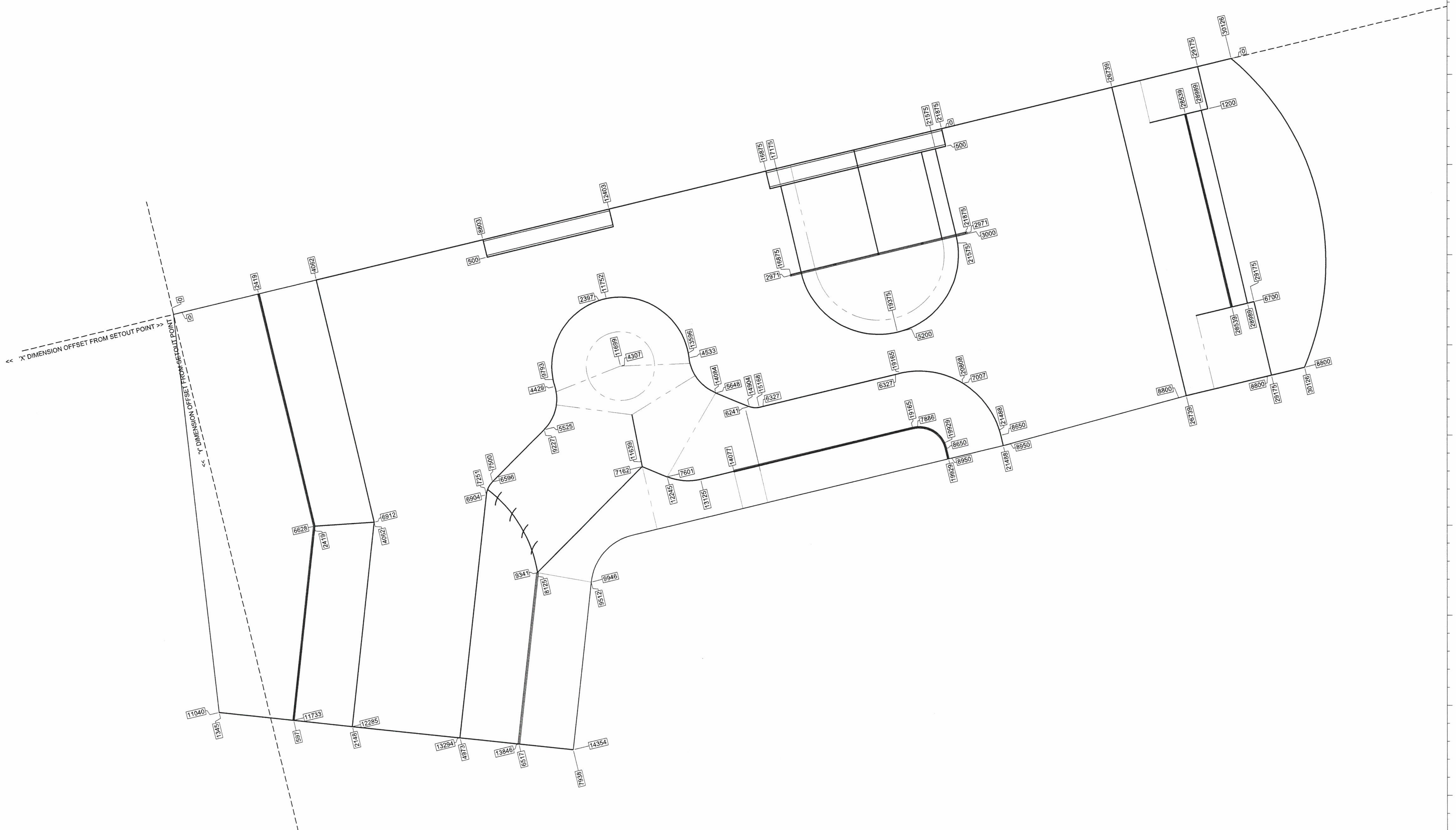
DRAWING NUMBER:
WK-SP-P01

REV:
C

LEGEND

ORDINATE SETOUT POINT IN X / Y DIRECTION RELATIVE TO SETOUT POINT #1
ALL DIMENSIONS IN METERS

ALL INFORMATION AVAILABLE IN CAD FORMAT INCLUDING 3D ELEVATION POINTS FOR DIGITAL SITE SETOUT (TOTAL STATION ETC)



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SCALE @ A1:
1:50

ORDINATE PLAN

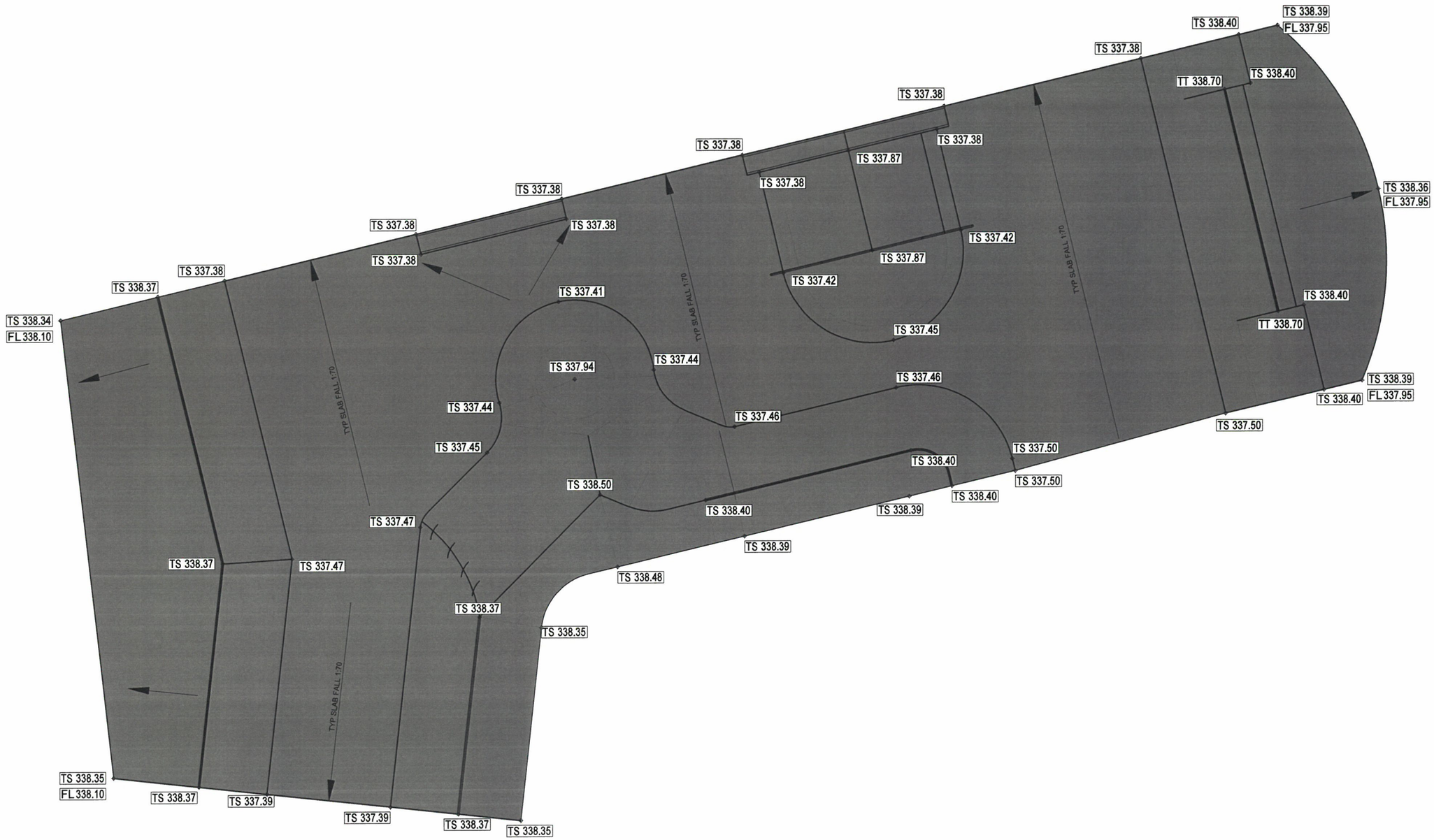
DRAWING NUMBER:
WK-SP-P01A

REV
C

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
	ALIGNMENT OF DRAINAGE SYSTEM. SEE DRAINAGE PLA SP-L02

Notes
1 Elevations relative to as shown on site servey / 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:
1:50
0 0.5 1 1.5 2 m

GRADING PLAN

DRAWING NUMBER:
WK-SP-P02

REV
C

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
ALL STEEL GRINDING EDGES AND STEEL COPING SHALL BE HOT DIP GALVANIZED.

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

RSP: 60 X 4.5 CHS. G350 (RM / TD01)

CPX: CP: 60 X 4.5 CHS. G350 PIPE (CPX / TD01)

CP-40: 42mm X 4 CHS G350 (CP40 / TD03)

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

SST-75: 75mm x 75mm x 4mm SQUARE HSS HDG (SST / TD03)

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

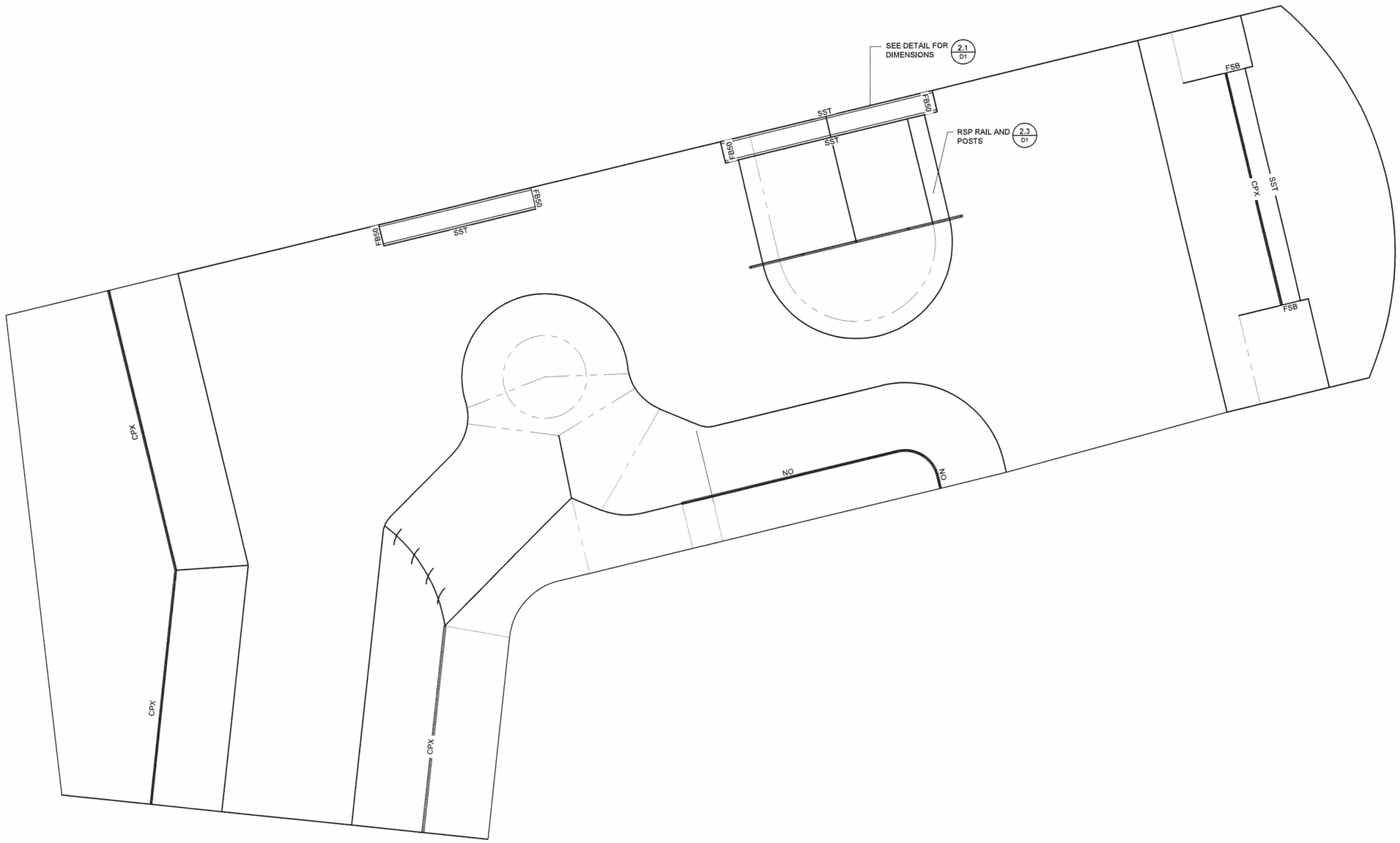
FB100: 100mm x 6mm FLAT STEEL BAR HDG
RHS : 50mm x 100mm RECTANGULAR STEEL TUBE WITH 6mm WALL HDG (DET (FSB / TD03)

LCT: 50mm x 100mm x 6mm RECTANGULAR HSS WITH 6mm WALL HDG, 18mm RECESS BELOW (LCT / TD03)

AI: 100X50X6mm ANGLE IRON TO STAIR FACE AND ANY EXPOSED SIDES (TST / TD04)

FB X 2: 2no X 75X6mm FLAT STEEL BARS FULLY WELDED ALONG LENGTH TO MATCH FEATURE ANGLE, HDG. (FB X 2 / TD03)

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



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SCALE @ A1:
1:50
0 0,5 1 1,5 2 m

STEEL EDGING PLAN

DRAWING NUMBER:
WK-SP-P03

REV:
C

LEGEND

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

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

M-1	CONCRETE SLAB CCS - CANVAS 2% (TBC) * PROVIDE OPTIONAL PRICE FOR COLOUR
M-2	SHOTCRETE BANK / TRANSITION CCS - KALGOORLIE 3% (TBC) * PROVIDE OPTIONAL PRICE FOR COLOUR
M-3	IN SITU CONCRETE LEDGE CCS LIZARD SKIN 6% (TBC) * PROVIDE OPTIONAL PRICE FOR COLOUR

ALL CONCRETE / SHOTCRETE TO BE FINISHED WITH 'ASHFORD FORMULA' HARDENER EXCEPT FOR AREAS SPECIFIED TO BE PAINTED.

QUALIFICATIONS AS PER TENDER

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.

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:

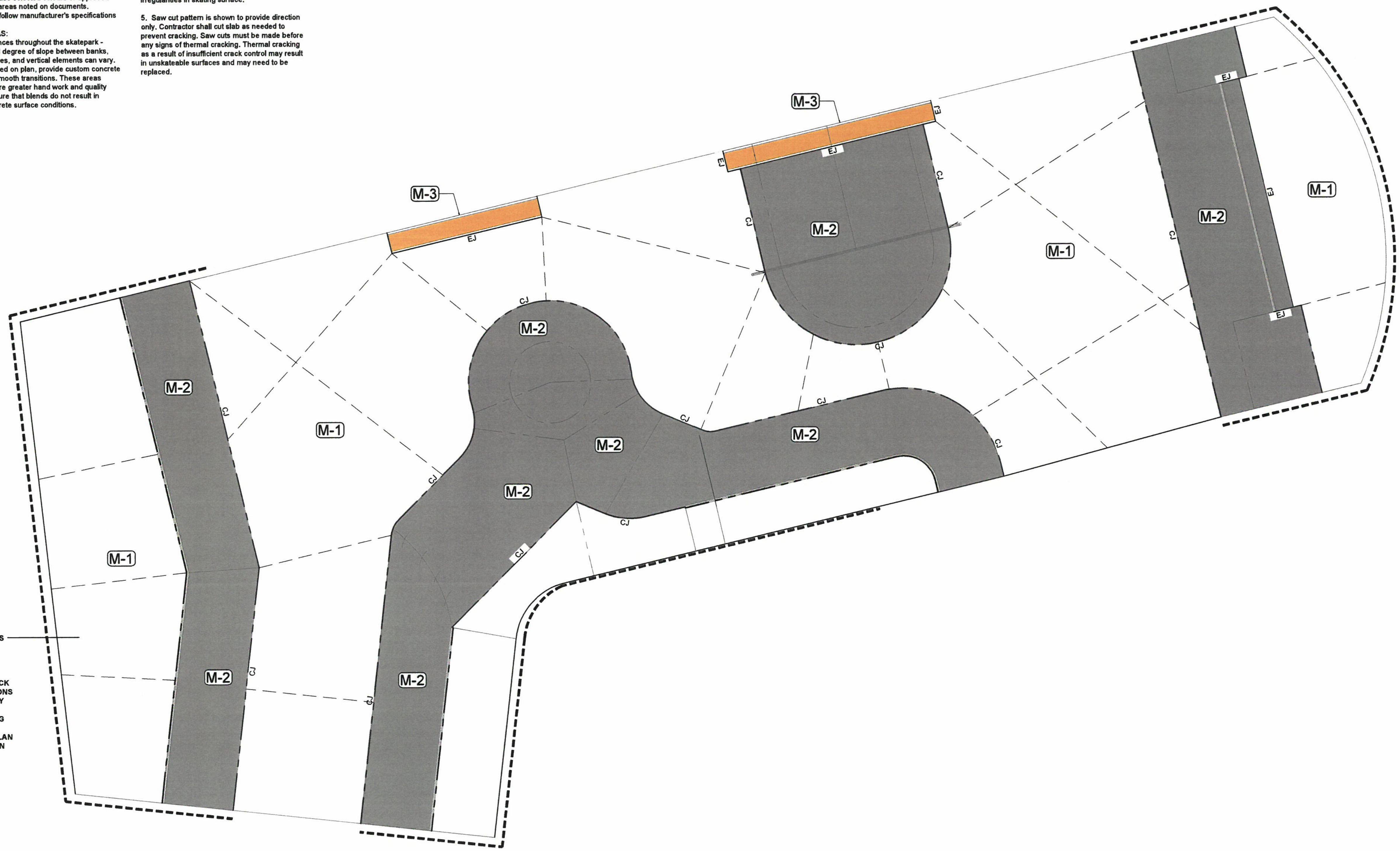
1. Construction of all concrete elements within the skatepark are best completed in the following order:
   A. Footings and walls with footings
   B. Bank slab sections, Steps and Transitions
   C. Floor Slab
   D. Wall, Ledges and Boxes built on slab.

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 unskateable surfaces and may need to be replaced.



NOTE TURN DOWN WALLS REQUIRED TO RAISED AREAS.

ENSURE ADEQUATE THICKENED EDGE AT BACK AND SIDES OF TRANSITIONS TO ALLOW COVERAGE BY ADJACENT LANDSCAPE BERMS. REVIEW GRADING PLAN, SECTIONS AND LANDSCAPE GRADING PLAN PRIOR TO CONSTRUCTION

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N

SCALE @ A1:
1:50
0 0.5 1 1.5 2 m

CONCRETE AND JOINT PLAN

DRAWING NUMBER:
WK-SP-P04

REV
C

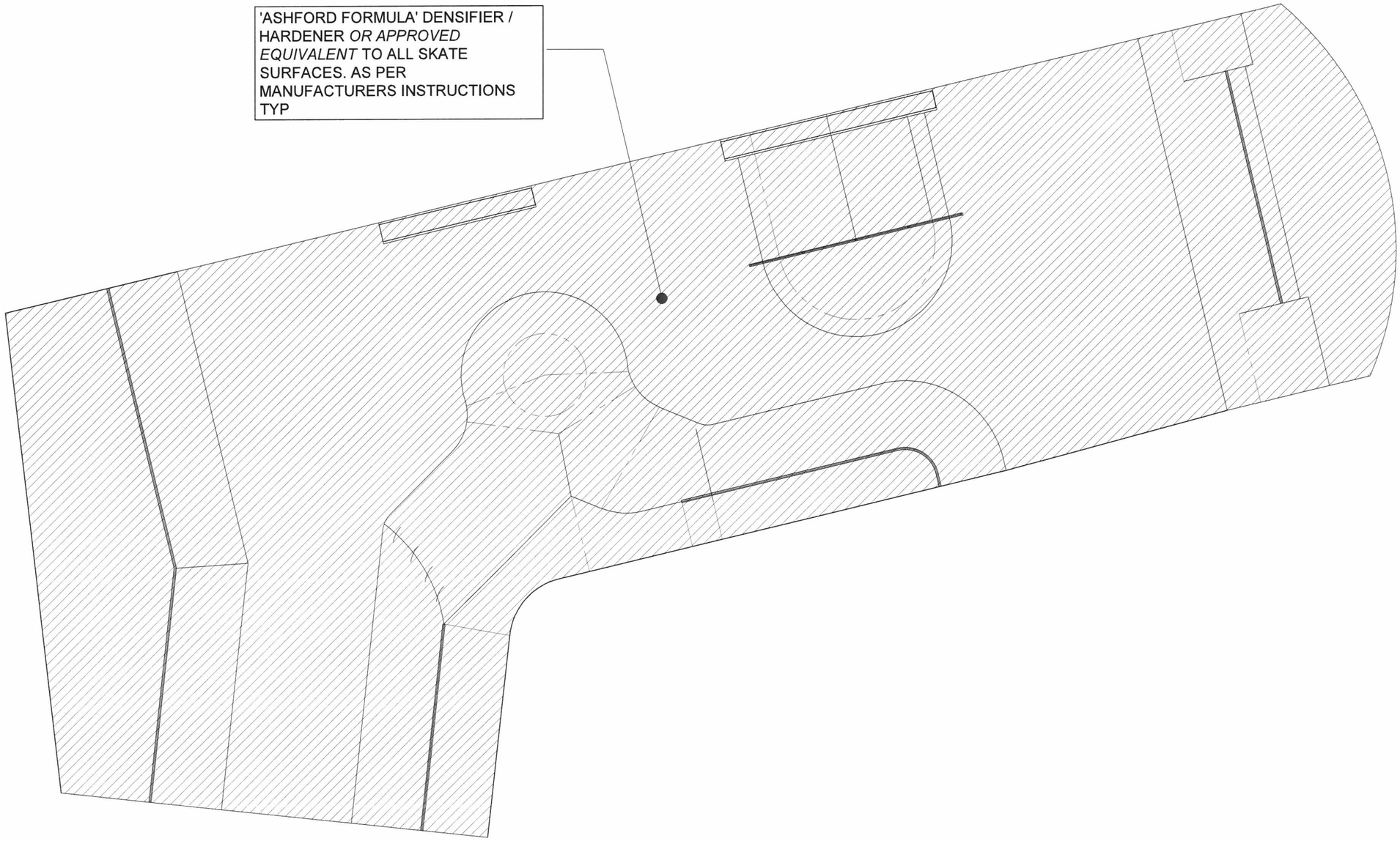
LEGEND

CONCRETE CURING BLANKET AND ASHFORD FORMULA HARDENER.* (ALL SKATE SURFACES)

EDGE WALLS PAINTED. COLOUR: ANTI GRAFFITI COATING

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

'ASHFORD FORMULA' DENSIFIER / HARDENER *OR APPROVED EQUIVALENT* TO ALL SKATE SURFACES. AS PER MANUFACTURERS INSTRUCTIONS TYP



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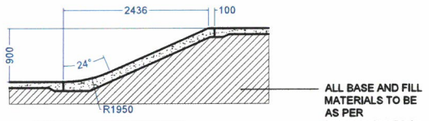
SCALE (A1/A3)
1:50

SURFACES AND PAINTING PLAN

0 0.5 1 1.5 2 m

DRAWING NUMBER:
WK-SP-P05

REV
C

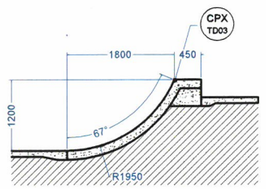


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BANK DETAIL (TB TD02)

ALL BASE AND FILL MATERIALS TO BE AS PER RECOMMENDED IN GEOTECHNICAL ENGINEER'S REPORT. TYP FOR ALL

1.1 D1 BANK

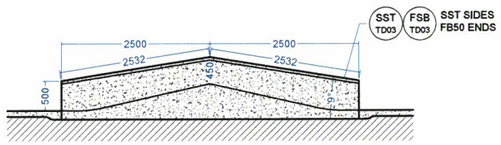
SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BUILT UP TRANSITION DETAIL (TT TD02)

1.2 D1 TRANSITION

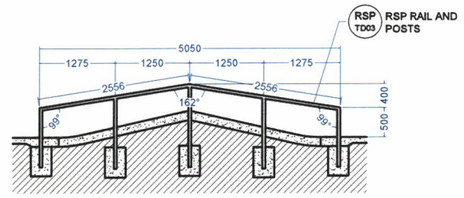
SCALE: 1:50



LEDGE AS PER TYPICAL LEDGE DETAIL (TL TD04)

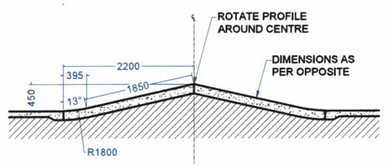
2.1 D1 A FRAME LEDGE

SCALE: 1:50



2.3 D1 A FRAME RAIL

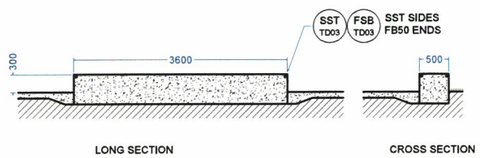
SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BANK DETAIL (TB TD02)

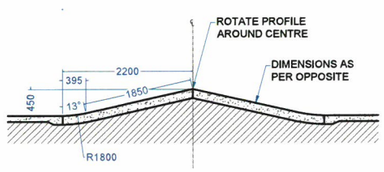
2.4 D1 BANK VOLCANO

SCALE: 1:50



3.1 D1 BANK VOLCANO

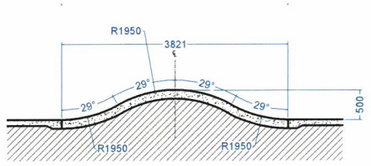
SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BANK DETAIL (TB TD02)

2.2 D1 A FRAME BANK

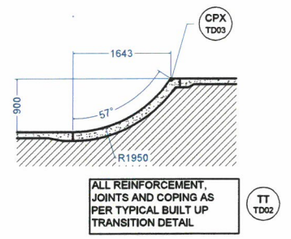
SCALE: 1:50



TT TD02 ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BUILT UP TRANSITION DETAIL

4.1 D1 PUMP BUMP

SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BUILT UP TRANSITION DETAIL (TT TD02)

5.1 D1 TRANSITION

SCALE: 1:50

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
ALL STEEL GRINDING EDGES AND STEEL COPING SHALL BE HOT DIP GALVANIZED.

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

RSP: 60 X 4.5 CHS. G350 (RM TD01)

CPX: CP: 60 X 4.5 CHS. G350 PIPE (CPX TD01)

CP-40: 42mm X 4 CHS G350 (CP40 TD01)

SST: 50mm x 50mm x 4mm SQUARE HSS HDG (SST TD01)

SST-75: 75mm x 75mm x 4mm SQUARE HSS HDG (SST TD01)

FB50: 50mm x 6mm FLAT STEEL BAR HDG (FSB TD01)

FB100: 100mm x 6mm FLAT STEEL BAR HDG (FSB TD01)

RHS : 50mm x 100mm RECTANGULAR STEEL TUBE WITH 6mm WALL HDG (DET

LCT: 50mm x 100mm x 6mm RECTANGULAR HSS WITH 6mm WALL HDG. 18mm RECESS BELOW (LCT TD01)

AI 100X50X6mm ANGLE IRON TO STAIR FACE AND ANY EXPOSED SIDES (TST TD04)

FB X 2: 2no X 75X6mm FLAT STEEL BARS FULLY WELDED ALONG LENGTH TO MATCH FEATURE ANGLE. HDG. (FB X 2 TD01)

DESIGN BY (SKATEPARK)
SKATE SCULPTURE
0450405510
ABN, 62 309 521 292
forwards@skate-sculpture.com.au
1 Howlett st, North Perth 6006

STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	–	PRELIMINARY	
C	18.08.2020	90% TENDER	

SIGNATURE OF AUTHORITY
THIS DRAWING IS NOT AUTHORISED FOR TENDER UNLESS SIGNED BY PARTIES STATED HERE

THIS DRAWING IS NOT AUTHORISED FOR CONSTRUCTION UNLESS SIGNED BY PARTIES STATED HERE

PROJECT
WICKEPIN SKATEPARK
PROJECT NUMBER

CLIENT / LGA
SHIRE OF WICKEPIN

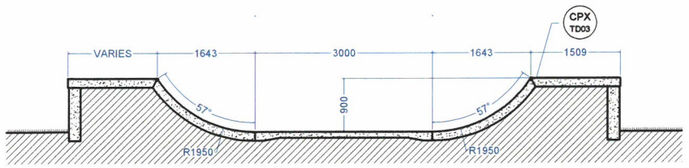
N

SCALE @ A1:
NA

DETAILS SHEET 1

DRAWING NUMBER:
WK-SP-D01

REV
C

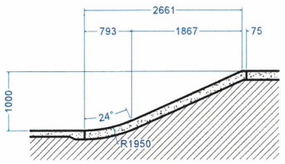


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BUILT UP TRANSITION DETAIL (TT TD02)

6.1 D1 MINIRAMP

SCALE: 1:50

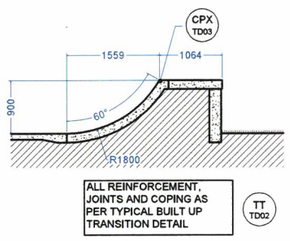
NOTE HEIGHT VARIES 900-1000. SEE GRADING PLAN



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BANK DETAIL (TB TD02)

7.1 D1 HIP BANK

SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BUILT UP TRANSITION DETAIL (TT TD02)

7.2 D1 QUARTER PIPE

SCALE: 1:50

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
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RSP: 60 X 4.5 CHS. G350 (RM TD01)

CPX: CP: 60 X 4.5 CHS. G350 PIPE (CPX TD01)

CP-40: 42mm X 4 CHS G350 (CP40 TD01)

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LCT: 50mm x 100mm x 6mm RECTANGULAR HSS WITH 6mm WALL HDG. 18mm RECESS BELOW (LCT TD01)

AI:100X50X6mm ANGLE IRON TO STAIR FACE AND ANY EXPOSED SIDES (TST TD04)

FB X 2: 2no X 75X6mm FLAT STEEL BARS FULLY WELDED ALONG LENGTH TO MATCH FEATURE ANGLE. HDG. (FB X 2 TD01)

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PROJECT
WICKEPIN SKATEPARK
PROJECT NUMBER
CLIENT / LGA
SHIRE OF WICKEPIN

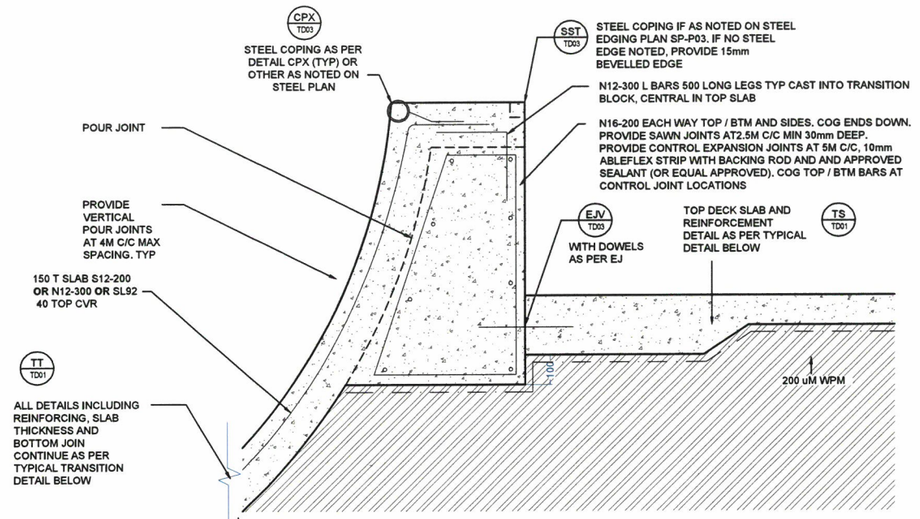
N

SCALE @ A1:
NA

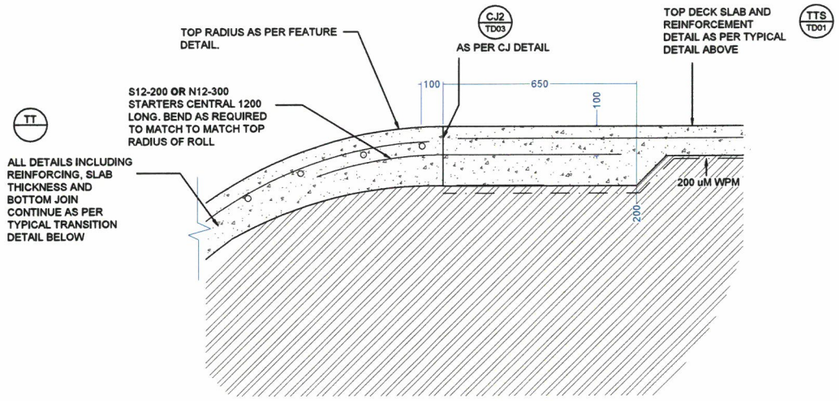
DETAILS SHEET 2

DRAWING NUMBER:
WK-SP-D02

REV
C



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

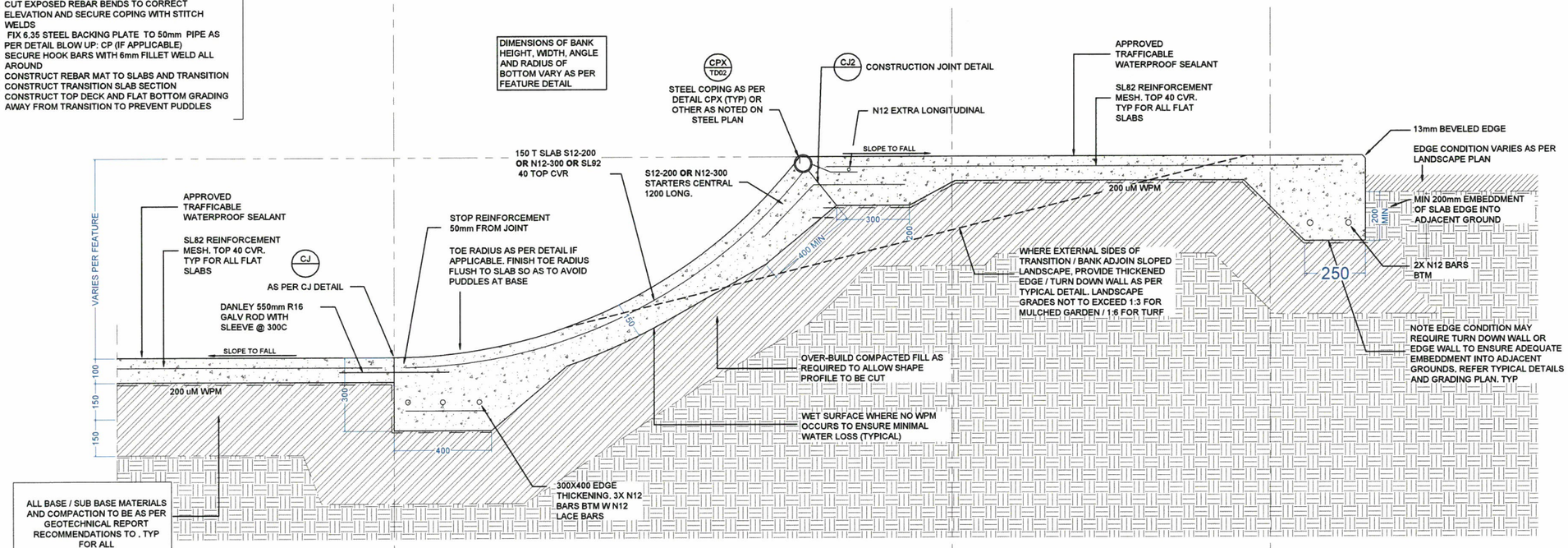


TRI | **TYPICAL JOIN - TOP OF ROLL IN**
- | 1:10

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. CONSTRUCT TOP DECK AND FLAT BOTTOM GRADING AWAY FROM TRANSITION TO PREVENT PUDDLES

DIMENSIONS OF BANK HEIGHT, WIDTH, ANGLE AND RADIUS OF BOTTOM VARY AS PER FEATURE DETAIL



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

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

TTS | **TYPICAL TOP DECK DETAIL**
- | 1:10

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

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PROJECT
WICKEPIN SKATEPARK
PROJECT NUMBER
CLIENT / LGA
SHIRE OF WICKEPIN

N

SCALE @ A1:
NA

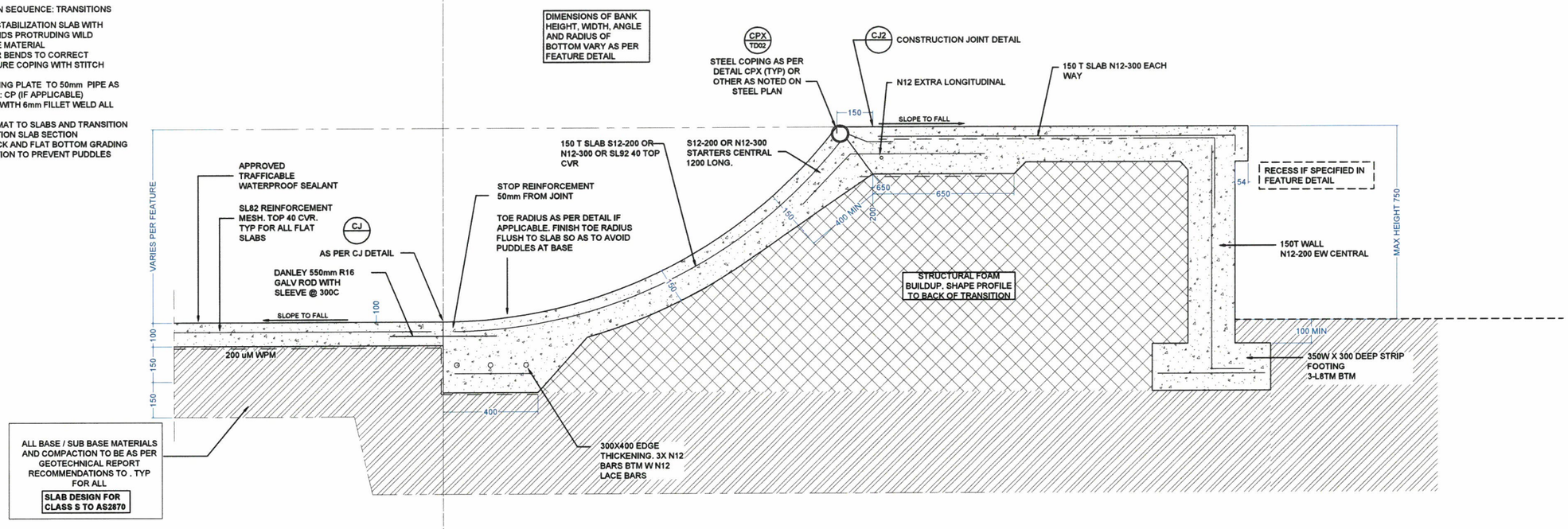
TYPICAL DETAILS SHEET 1

DRAWING NUMBER:
WK-SP-TD01

REV
C

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. CONSTRUCT TOP DECK AND FLAT BOTTOM GRADING AWAY FROM TRANSITION TO PREVENT PUDDLES



TS TYPICAL FLAT SLAB DETAIL

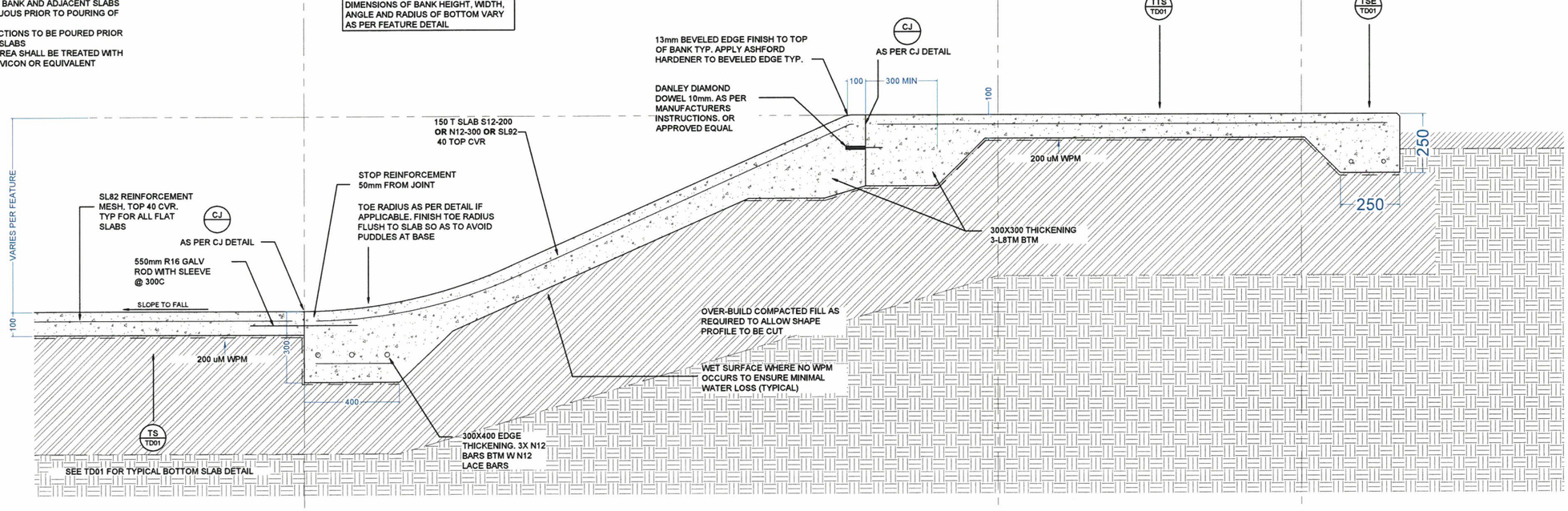
- 1:10

TTF TYPICAL TRANSITION WITH FOAM BUILDUP DETAIL

- 1:10

CONSTRUCTION NOTES

1. REBAR MAT AT BANK AND ADJACENT SLABS TO BE CONTINUOUS PRIOR TO POURING OF CONCRETE
2. BANK SLAB SECTIONS TO BE POURED PRIOR TO ADJACENT SLABS
3. ALL WELDED AREA SHALL BE TREATED WITH ZINC RICH GALVICON OR EQUIVALENT



TB TYPICAL BANK DETAIL

- 1:10

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PROJECT
WICKEPIN SKATEPARK
PROJECT NUMBER
CLIENT / LGA
SHIRE OF WICKEPIN

N

SCALE @ A1:
NA

TYPICAL DETAILS SHEET 2

DRAWING NUMBER:
WK-SP-TD02

REV
C

NOTES:

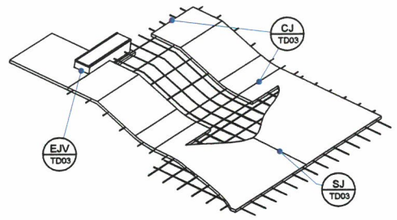
1. CONSTRUCTION OF ALL CONCRETE ELEMENTS WITHIN THE SKATEPARK ARE BEST COMPLETED IN THE FOLLOWING ORDER:
   A. FOOTINGS AND WALLS WITH FOOTINGS
   B. BANK SLAB SECTIONS, STEPS AND TRANSITIONS
   C. FLOOR SLAB
   D. WALL, LEDGES AND BOXES BUILT ON SLAB.

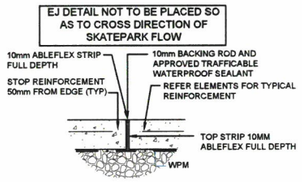
2. CAST IN PLACE CONCRETE SLAB SECTIONS SHALL BE CONSTRUCTED IN AN ALTERNATING ARRANGEMENT SO THAT EVERY OTHER SLAB SECTION IS COMPLETED PRIOR TO THE POURING OF THE INFILL SLAB SECTION. THIS SYSTEM PROVIDES EDGE FORMING FOR EVERY ALTERNATE SLAB SECTION AND HELPS ENSURE QUALITY CONTROL. NO SLAB SECTIONS 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.

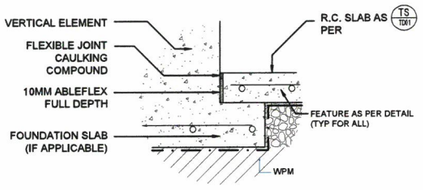
4. EXPANSION JOINTS: SHALL BE PLACED AT THE BASE OF ALL VERTICAL CONCRETE ELEMENTS SUCH AS LEDGES, STAIRS AND WALLS. UTILIZE JOINT COMPOUND NO GREATER THAN 6.25MM IN WIDTH TO HELP ELIMINATE TRIPPING OR IRREGULARITIES IN SKATING SURFACE.

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 UNSKATEABLE SURFACES AND MAY NEED TO BE REPLACED.

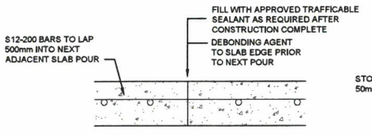




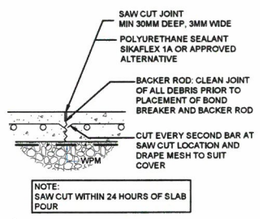
EJ **TYPICAL EXPANSION JOINT DETAIL**
1:10



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

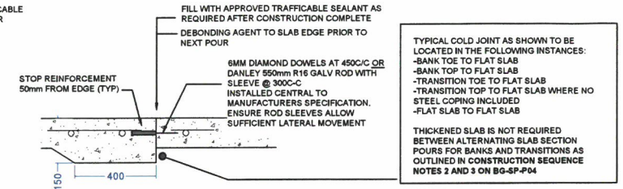


PJ **CHANGE IN POUR**
1 : 10



NOTE:
SAW CUT WITHIN 24 HOURS OF SLAB POUR

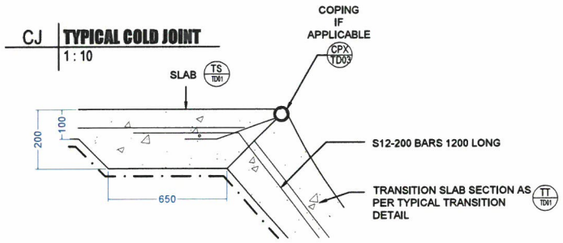
SJ **TYPICAL SAW CUT**
1 : 10



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 2 AND 3 ON BG-SP-P04

CJ **TYPICAL COLD JOINT**
1 : 10



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

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RSP: 60 X 4.5 CHS. G350 RM TD01

CPX: CP: 60 X 4.5 CHS. G350 PIPE CPX TD03

CP-40: 42mm X 4 CHS G350 CP40 TD01

SST: 50mm x 50mm x 4mm SQUARE HSS HDG SST TD01

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FB50: 50mm x 6mm FLAT STEEL BAR HDG FSB TD01

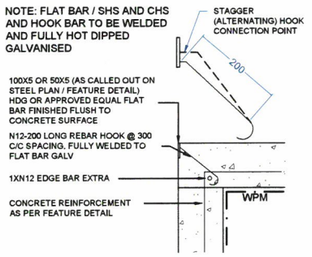
FB100: 100mm x 6mm FLAT STEEL BAR HDG
RHS : 50mm x 100mm RECTANGULAR STEEL TUBE WITH 6mm WALL HDG (DET FSB TD01

LCT: 50mm x 100mm x 6mm RECTANGULAR HSS WITH 6mm WALL HDG. 18mm RECESS BELOW LCT TD01

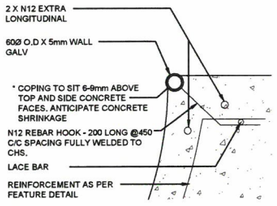
AI:100X50X6mm ANGLE IRON TO STAIR FACE AND ANY EXPOSED SIDES TST TD01

FB X 2: 2no X 75X6mm FLAT STEEL BARS FULLY WELDED ALONG LENGTH TO MATCH FEATURE ANGLE. HDG. FB X 2 TD01

NOTE: FLAT BAR / SHS AND CHS AND HOOK BAR TO BE WELDED AND FULLY HOT DIPPED GALVANISED

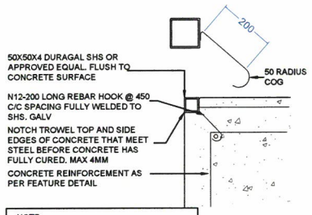


FSB **FLAT STEEL BAR COPING**
- 1:10



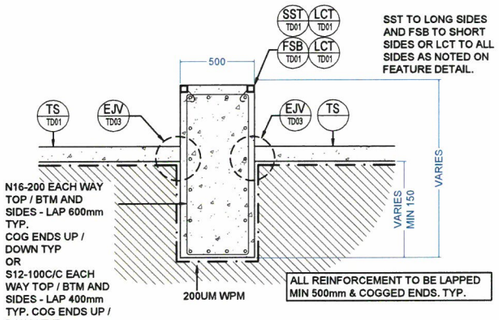
CPX **TRANSITION COPING DETAIL**
1:10

* NOTE: CPX COPING OFFSET 6-9mm IS A CRITICAL DIMENSION FOR FUNCTION OF SKATEPARK. NOTIFY SUPERINTENDENT FOLLOWING COMPLETION FOR REVIEW. DEVIATION OF OFFSET OF COPING OUTSIDE OF TOLERANCE DIMENSIONS WILL REMOVAL AND RE-BUILD AT CONTRACTORS EXPENSE.

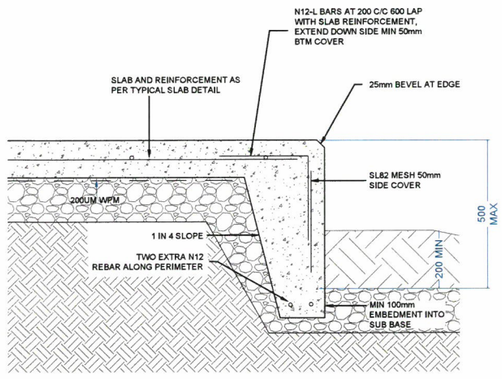


NOTE:
WHERE 50X50X4 SHS MEETS RETURN CORNER, MITER & FULLY WELD. (TYP)

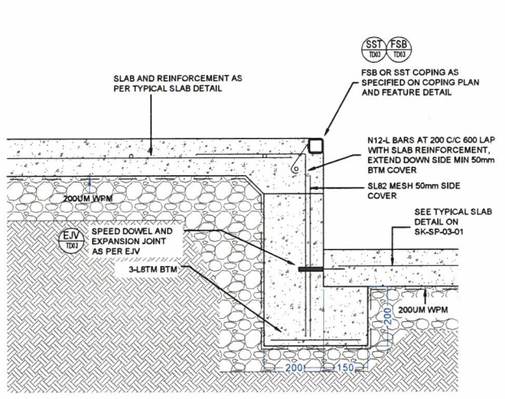
SST **SHS STEEL TUBE COPING**
- 1:10



THL **TYPICAL HUBBA LEDGE**
- 1:20

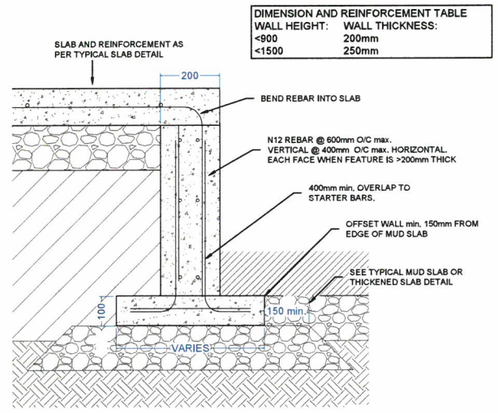


TE **TYPICAL THICKENED EDGE**
- 1:10

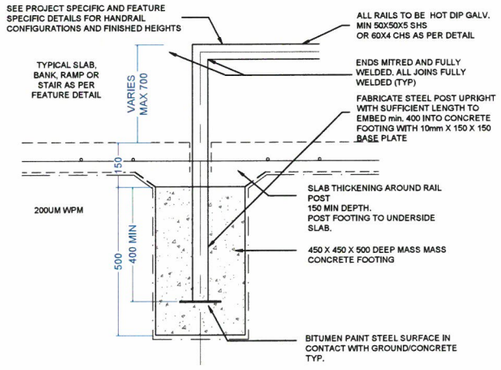


EW **TYPICAL EDGE WALL**
- 1:10

DIMENSION AND REINFORCEMENT TABLE	
WALL HEIGHT:	WALL THICKNESS:
<900	200mm
<1500	250mm



EW2 **TYPICAL SLAB BUILT ON WALL**
- 1:10



RM **TYPICAL RAIL MOUNTING DETAIL**
- 1:10

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SCALE @ A1:
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TYPICAL DETAILS SHEET 3

DRAWING NUMBER:
WK-SP-TD03

REV
C

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.

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: 10 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 10mm 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 (DURAGAL).
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.

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STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	...	PRELIMINARY
C	18.08.2020	90% TENDER

SIGNATURE OF AUTHORITY
THIS DRAWING IS NOT TO BE USED FOR TENDER UNLESS SIGNED BY PRIMARY PRINCIPAL HERE
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY PRIMARY PRINCIPAL HERE

PROJECT
WICKEPIN SKATEPARK
PROJECT NUMBER
CLIENT / LGA
SHIRE OF WICKEPIN

N

SCALE @ A1:
NA

GENERAL NOTES

DRAWING NUMBER:
WK-SP-00N

REV
C