



CONTRACT NO.: SCM/MOH/02/2026

ROUXVILLE/ROLELEATHUNYA: CONSTRUCTION
OF SPORTS GROUND_PHASE 2

BOOK OF TENDER DRAWINGS

APRIL 2026



Drawing signed for approval
held at Engineering Aces offices

DRAWN:	NP KHUMALO	TENDER DRAWINGS	DATE
DESIGNED:	N QWABE		
CHECKED:	PL MABOHO	SS MNTAMBO Pr Tech Eng-2025302376	
APPROVED:	SS MNTAMBO	SCALE: AS SHOWN	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
TO	20/08/2025	TENDER DRAWING	SS MNTAMBO

CONSULTANT



see the RESULT

CLIENT



MOHOKARE LOCAL MUNICIPALITY

**ROUXVILLE/ROLELEATHUNYA
CONSTRUCTION OF SPORTS
GROUND_PHASE 2**

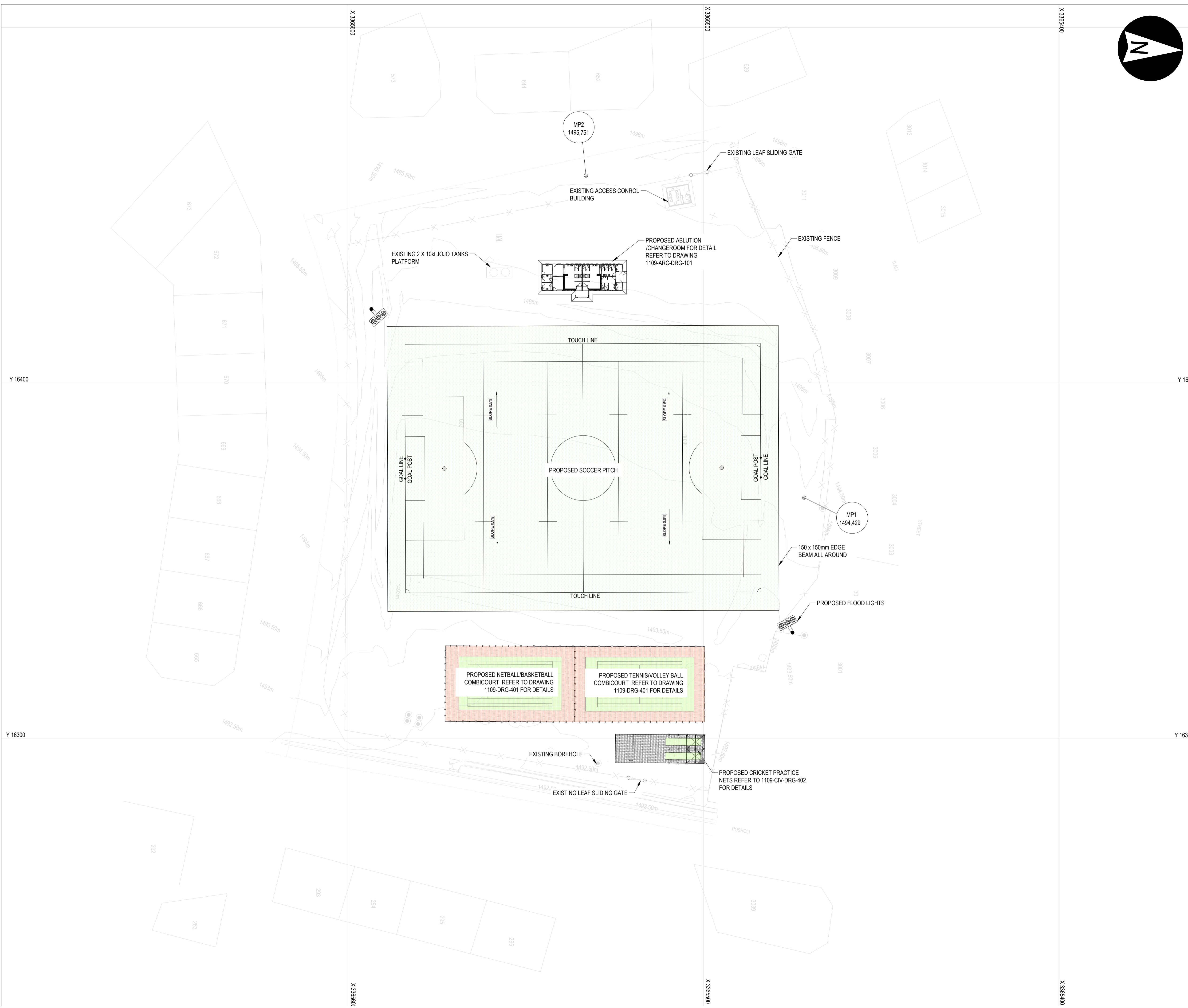
LAYOUT:
LOCALITY PLAN

LIST OF DRAWINGS

1109-CIV-DRG-100	:	LAYOUT: LOCALITY AND LIST OF DRAWINGS
1109-CIV-DRG-101	:	LAYOUT: SITE
1109-CIV-DRG-102	:	DETAILS: PROJECT NAMEBOARD
1109-CIV-DRG-200	:	LAYOUT: WATER
1109-CIV-DRG-300	:	LAYOUT: SEWER
1109-CIV-DRG-301	:	DETAILS: TYPICAL SEWER
1109-CIV-DRG-400	:	DETAILS: SOCCER PITCH
1109-CIV-DRG-401	:	DETAILS: NETBALL AND BASKETBALL COMBI COURT
1109-CIV-DRG-402	:	DETAILS: TENNIS/ VOLLEYBALL COMBI COURT
1109-CIV-DRG-403	:	DETAILS: PRACTICE CRICKET NETS
1109-ARC-DRG-100	:	DETAILS: GENERAL NOTES
1109-ARC-DRG-101	:	DETAILS: ABLUTION FACILITY/CHANGING ROOMS
1109-ARC-DRG-102	:	DETAILS: WINDOWS AND DOOR SCHEDULE
1109-STR-DRG-100	:	DETAILS: GENERAL NOTES
1109-STR-DRG-101	:	DETAILS: ABLUTION FACILITY AND GUARD HOUSE FOUNDATION AND SURFACE BED

DRAWING NO.
1109-CIV-DRG-100

REVISION
TO



LEGEND:

- x — x — EXISTING FENCE
- ⊕ ⊕ ⊕ ⊕ PROPOSED HIGH MAST

NOTES:

1. THE LATEST EDITION OF ANY STANDARD SPECIFICATION SHALL APPLY.
2. ALL DIMENSIONS ARE IN METERS (m) UNLESS STATED OTHERWISE.
3. SHALL EXPOSE ALL EXISTING SERVICES TO BE CONNECTED PRIOR TO ANY WORK BEING DONE. WORK MAY ONLY COMMENCE ONCE THE ENGINEER HAS CHECKED THAT CONNECTIONS ARE POSSIBLE AND WRITTEN APPROVAL GIVEN FOR COMMENCEMENT OF WORK.
4. CONTRACTOR TO OBTAIN APPROVAL TO CONNECT WITH EXISTING INFRASTRUCTURE AND TO COMPLY WITH LOCAL AUTHORITY REGULATIONS.
5. ALL EARTHWORKS AND SERVICES TO BE SET OUT BY A COMPETENT AND QUALIFIED SURVEYOR ACCORDING TO CO-ORDINATES ON PLANS.
6. EXCESS EXCAVATED MATERIAL SHALL BE SPOILED TO AN APPROVED SITE LOCATED BY THE CONTRACTOR.
7. MINIMUM NUMBER OF PROCESS CONTROL TESTS REQUIRED FOR FILL AND LAYER WORKS :
- REIMBURSEMENT FOR PROCESS CONTROL TESTS SHALL BE INCLUDED IN RATES SUBMITTED.
8. WORK TO COMPLY WITH THE FOLLOWING STANDARD SPECIFICATION.
STANDARDIZED SPECIFICATIONS FOR CIVIL ENGINEERING CONSTRUCTION
-SABS 1200 - SABS 1200 - SABS 1200 D - SABS 1200 MH - SABS 1200 D
-SABS 1200 M - SABS 1200 ME

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DESIGNED:	N QWABE		DATE
CHECKED:	SS MNTAMBO	OS MOTHIBI Pr Tech Eng-2015070157	
APPROVED:	OS MOTHIBI	SCALE: AS SHOWN	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	19/03/2026	TENDER DRAWING	OS MOTHIBI

CONSULTANT



see the **RESULT**

CLIENT



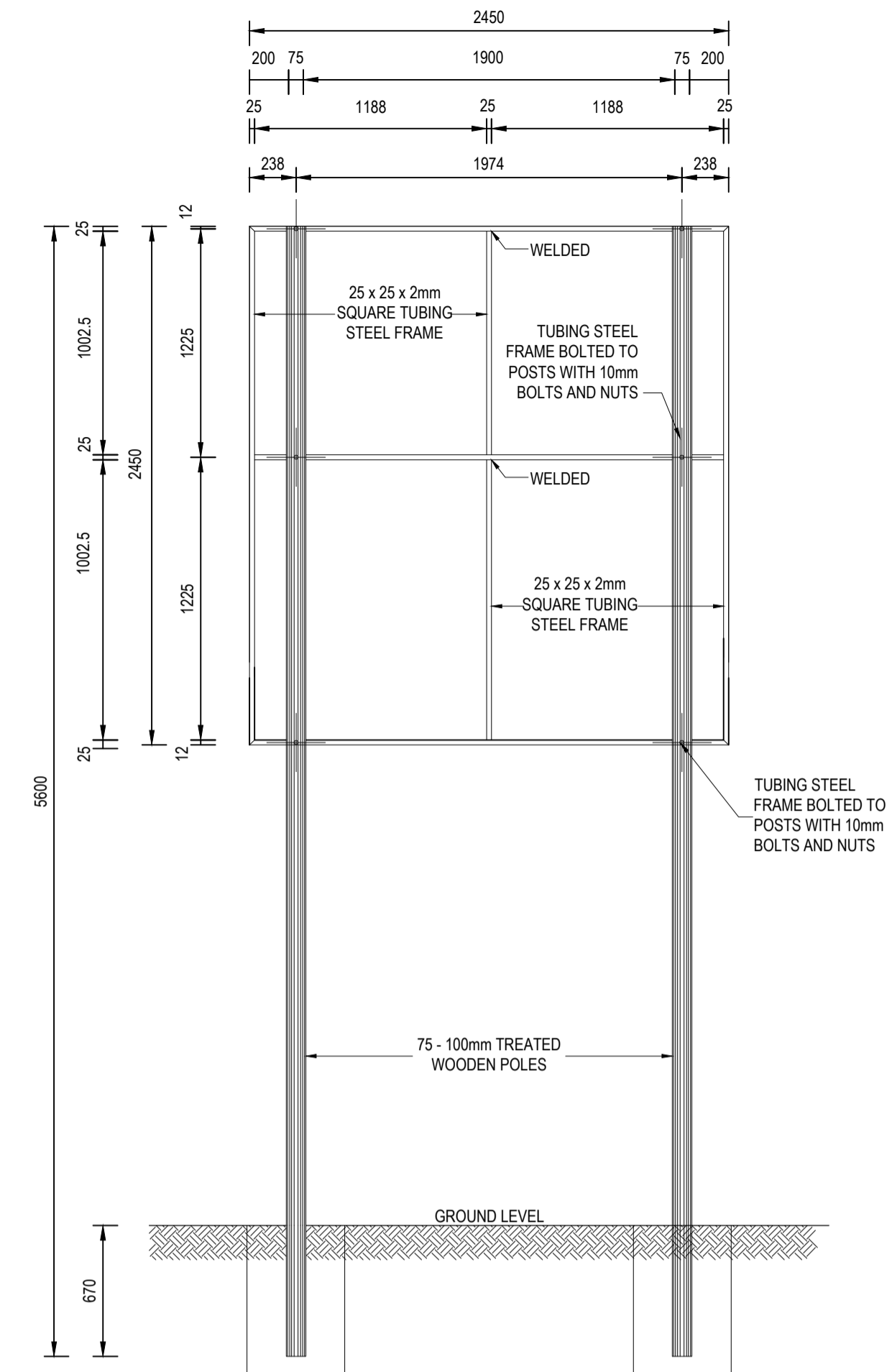
MOHOKARE
LOCAL MUNICIPALITY

MOHOKARE LOCAL MUNICIPALITY

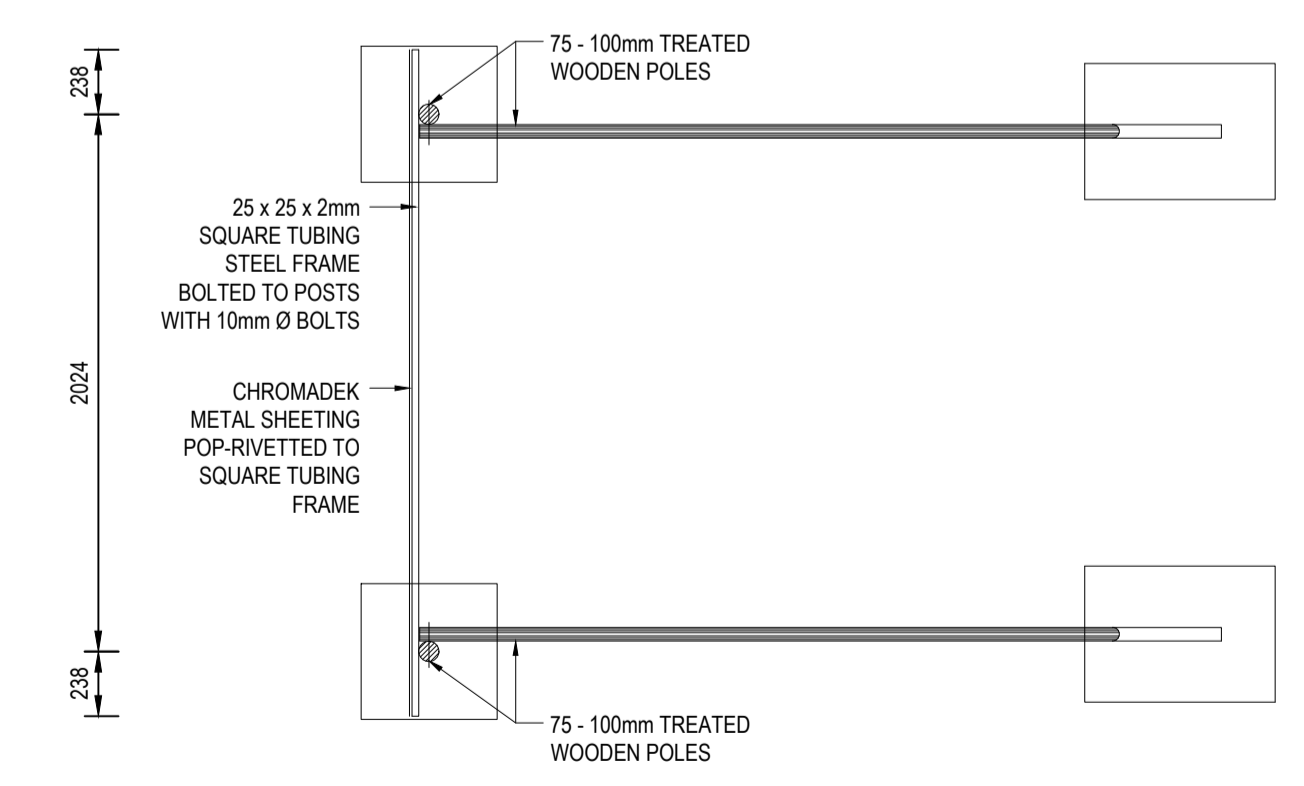
**ROUXVILLE/ROLELEATHUNYA
CONSTRUCTION OF SPORTS
GROUND_PHASE 2**

LAYOUT:SITE

DRAWING NO.	1109-CIV-DRG-101	REVISION	T0
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BACK ELEVATION
N.T.S



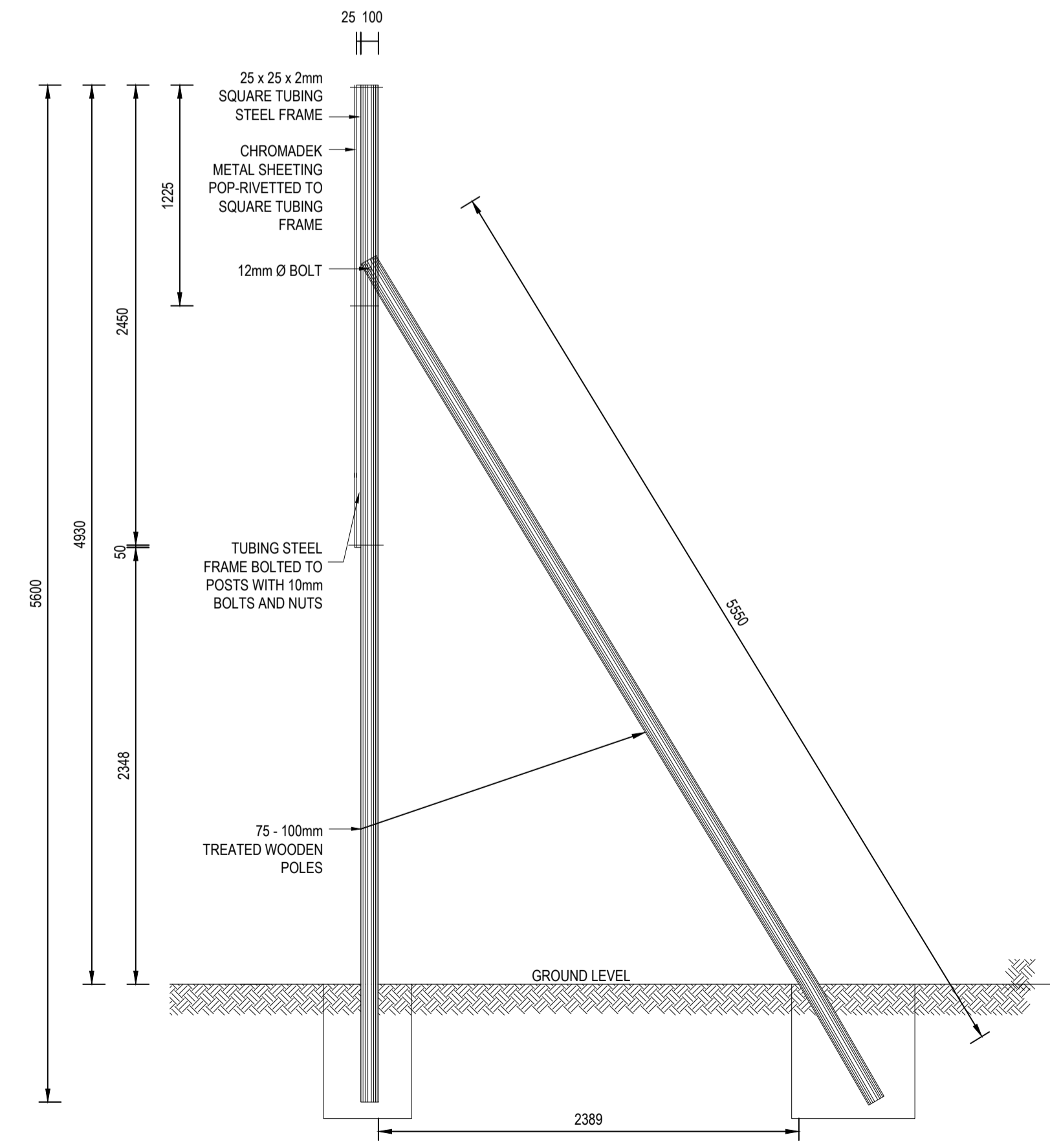
TOP VIEW
N.T.S

CHROMADEK METAL SHEETING: (RUST RESISTANT METAL)
SPRAY PAINTED TO THE CUSTOMER'S SPECIFICATIONS WITH AUTOMOTIVE QUALITY DUCO PAINT.

WORDING:
HIGH PERFORMANCE 5 TO 7 YEARS OUTDOOR QUALITY VINYL.

LOGOS:
UV RESISTANT FULL COLOUR THERMAL PRINT ONTO A HIGH PERFORMANCE OUTDOOR GRADE VINYL SUBSTRATE.
OR
HIGH PERFORMANCE 5 TO 7 YEARS OUTDOOR QUALITY VINYL APPLICATED DIRECTLY TO THE PREPARED CHROMADEK (IF LOGO CONSISTS OF FLAT COLOURS).

NOTE:
1. THE POSITION OF WHERE THE BOARD IS TO BE ERECTED MUST BE APPROVED BY THE ENGINEER AND THE CLIENT.
2. THE BOARD MUST REMAIN UNTIL THE END OF THE RETENTION PERIOD.



SIDE ELEVATION
N.T.S

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APPROVED:	OS MOTHIBI	SCALE:	

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TO	19/03/2026	TENDER DRAWING	OS MOTHIBI

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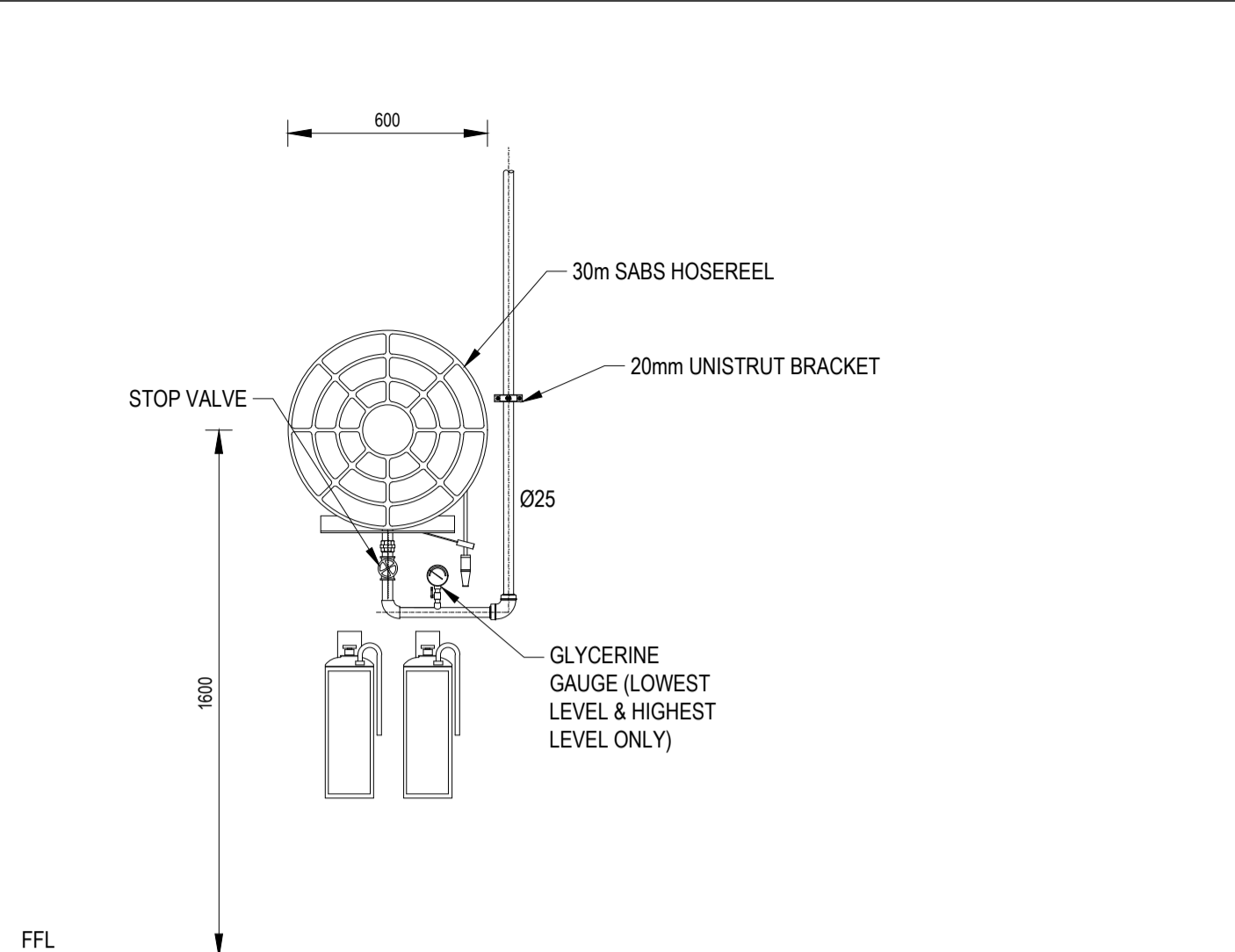


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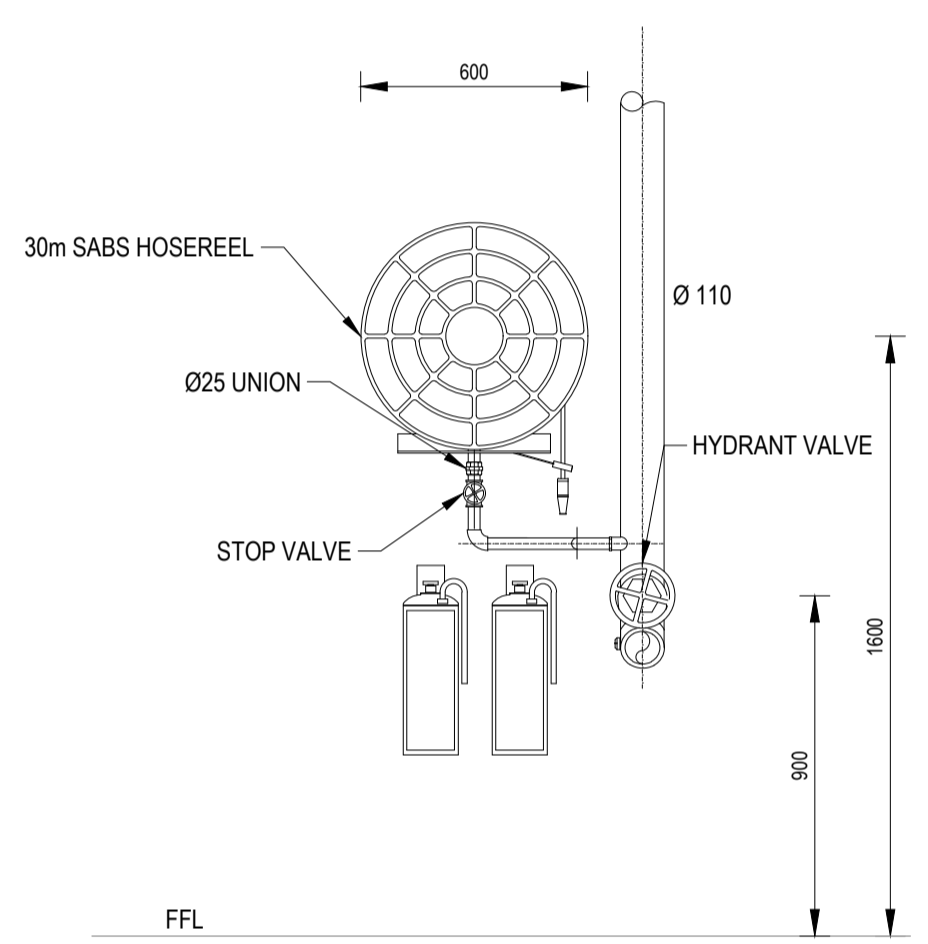
MOHOKARE LOCAL MUNICIPALITY

ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND _PHASE 2

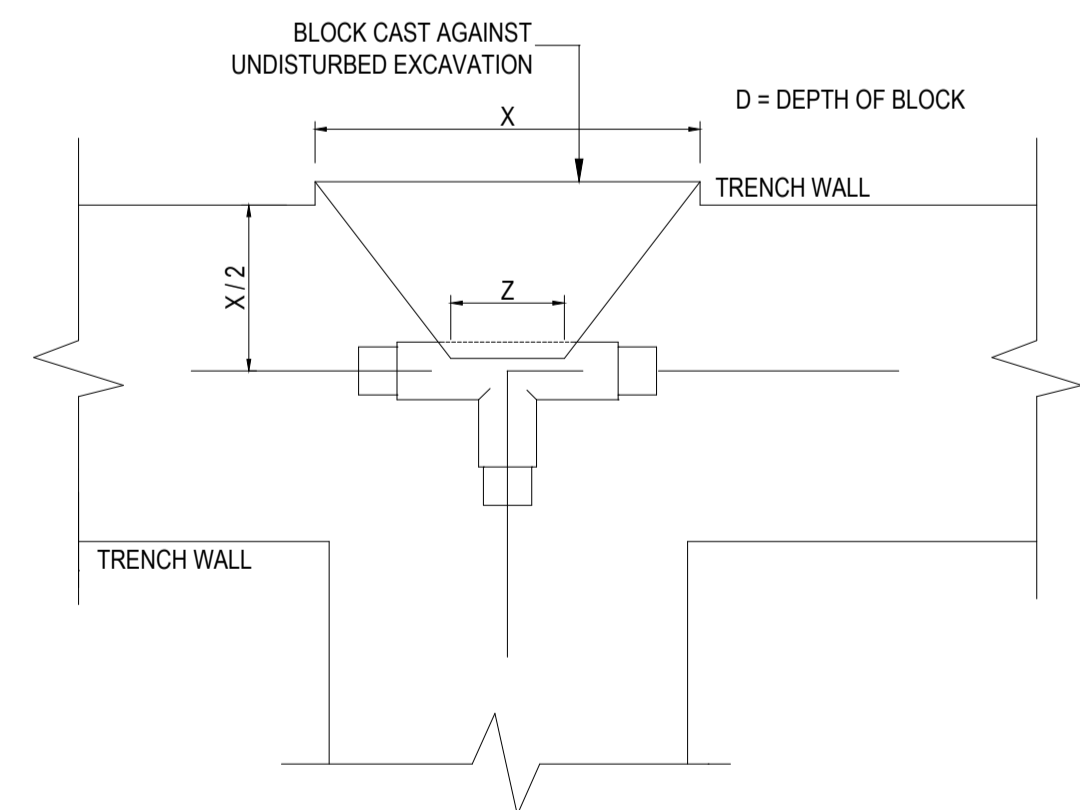
LAYOUT:
PROJECT NAME BOARD



TYPICAL FIRE HOSE REEL DETAIL
SCALE : 1:20

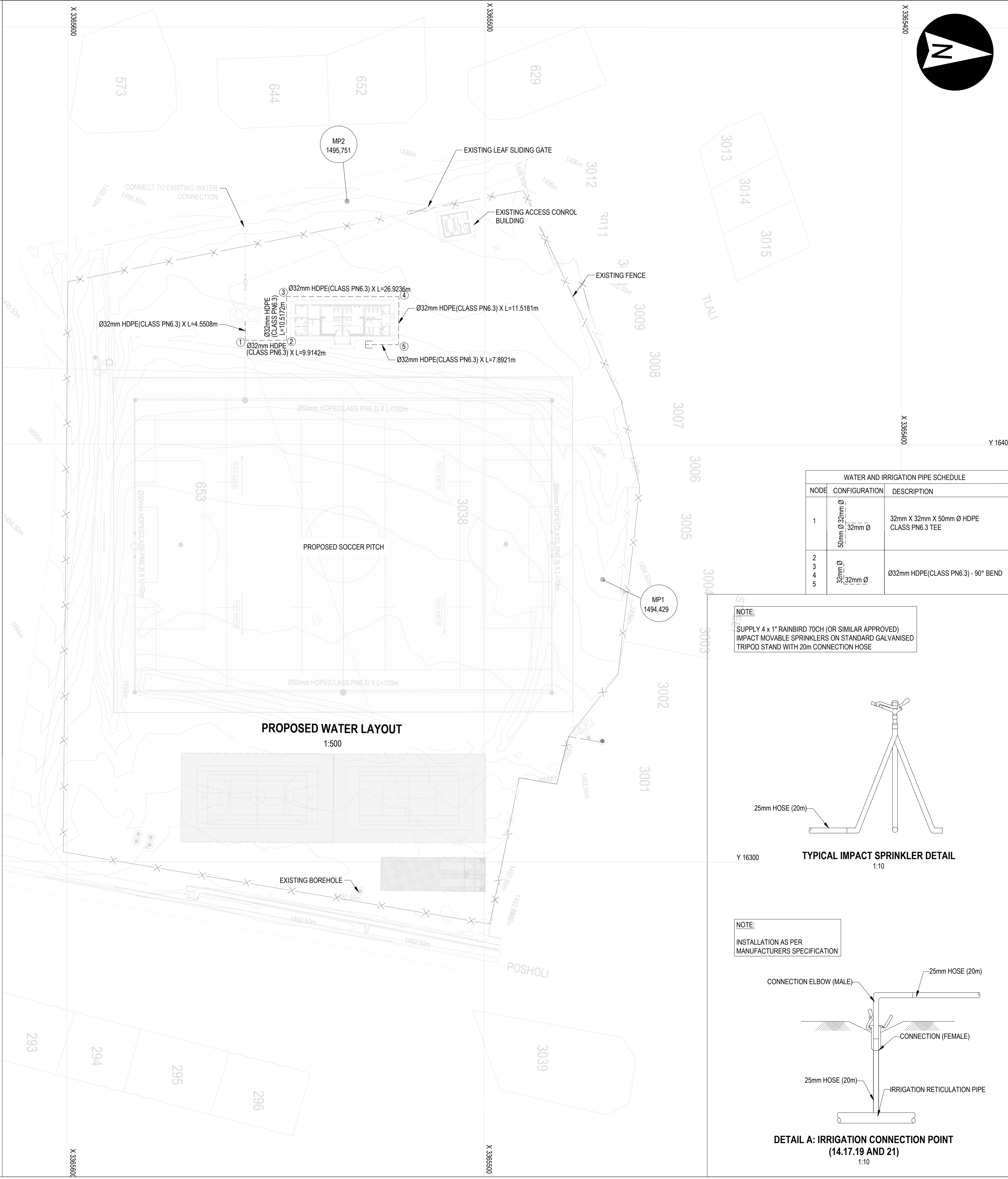


TYPICAL FIRE HOSE REEL & HYDRANT DETAIL
SCALE : 1:20



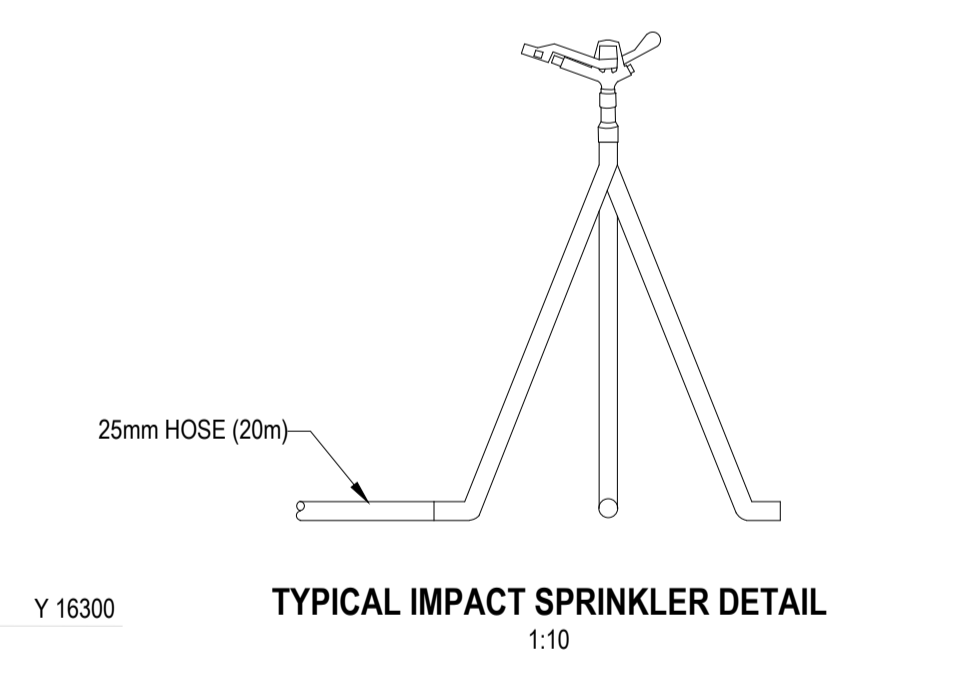
THRUST BLOCK FOR TEES AND END CAPS
NTS

TABLE 1			
PIPE DIAMETER	X (mm)	DEPTH OF BLOCK	Z (mm)
200	1300	800	350
150	1000	600	275
100	630	400	200
75	500	300	150
50	325	200	100

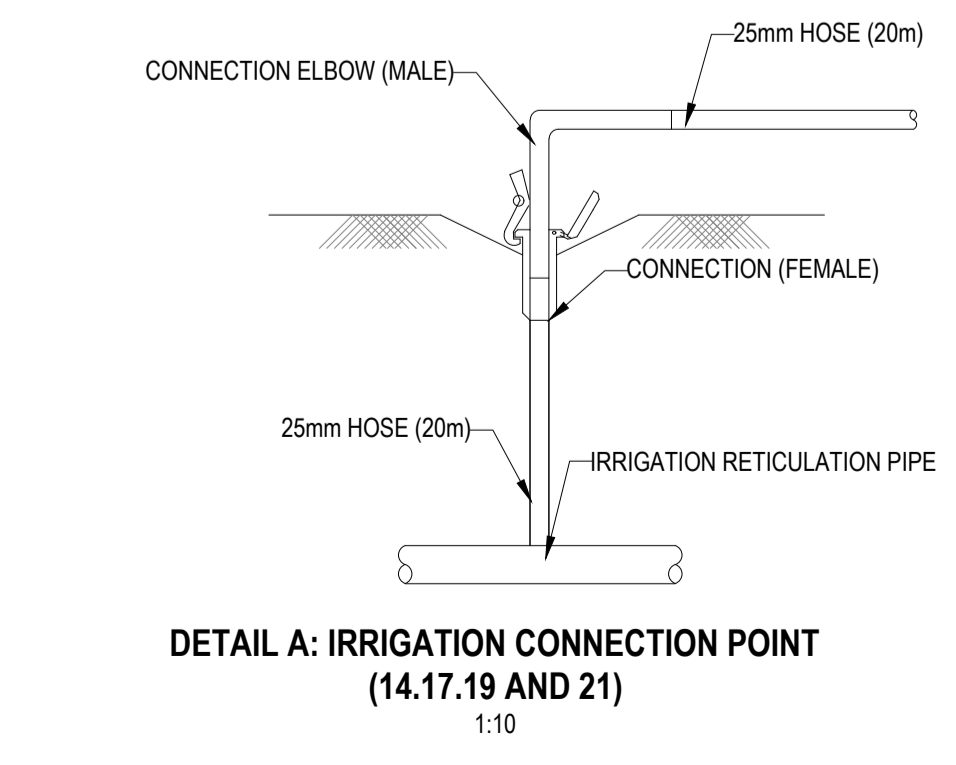


WATER AND IRRIGATION PIPE SCHEDULE		
NODE	CONFIGURATION	DESCRIPTION
1	50mm Ø 32mm Ø	32mm X 32mm X 50mm Ø HDPE CLASS PN6.3 TEE
2	32mm Ø	Ø32mm HDPE(CLASS PN6.3) - 90° BEND
3	32mm Ø	
4	32mm Ø	
5	32mm Ø	

NOTE:
SUPPLY 4 x 1" RAINBIRD 70CH (OR SIMILAR APPROVED) IMPACT MOVABLE SPRINKLERS ON STANDARD GALVANISED TRIPOD STAND WITH 20m CONNECTION HOSE



NOTE:
INSTALLATION AS PER MANUFACTURERS SPECIFICATION



- LEGEND:**
- PROPOSED Ø 50mm HDPE
 - - - PROPOSED Ø 32mm HDPE
 - ⊘ GATE VALVE
 - ⊞ WATER METER CHAMBER
 - ⊕ FIRE HYDRANT

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APPROVED:	OS MOTHIBI	SCALE: AS SHOWN

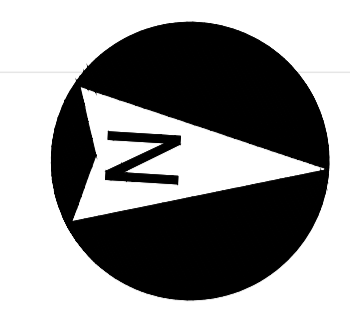
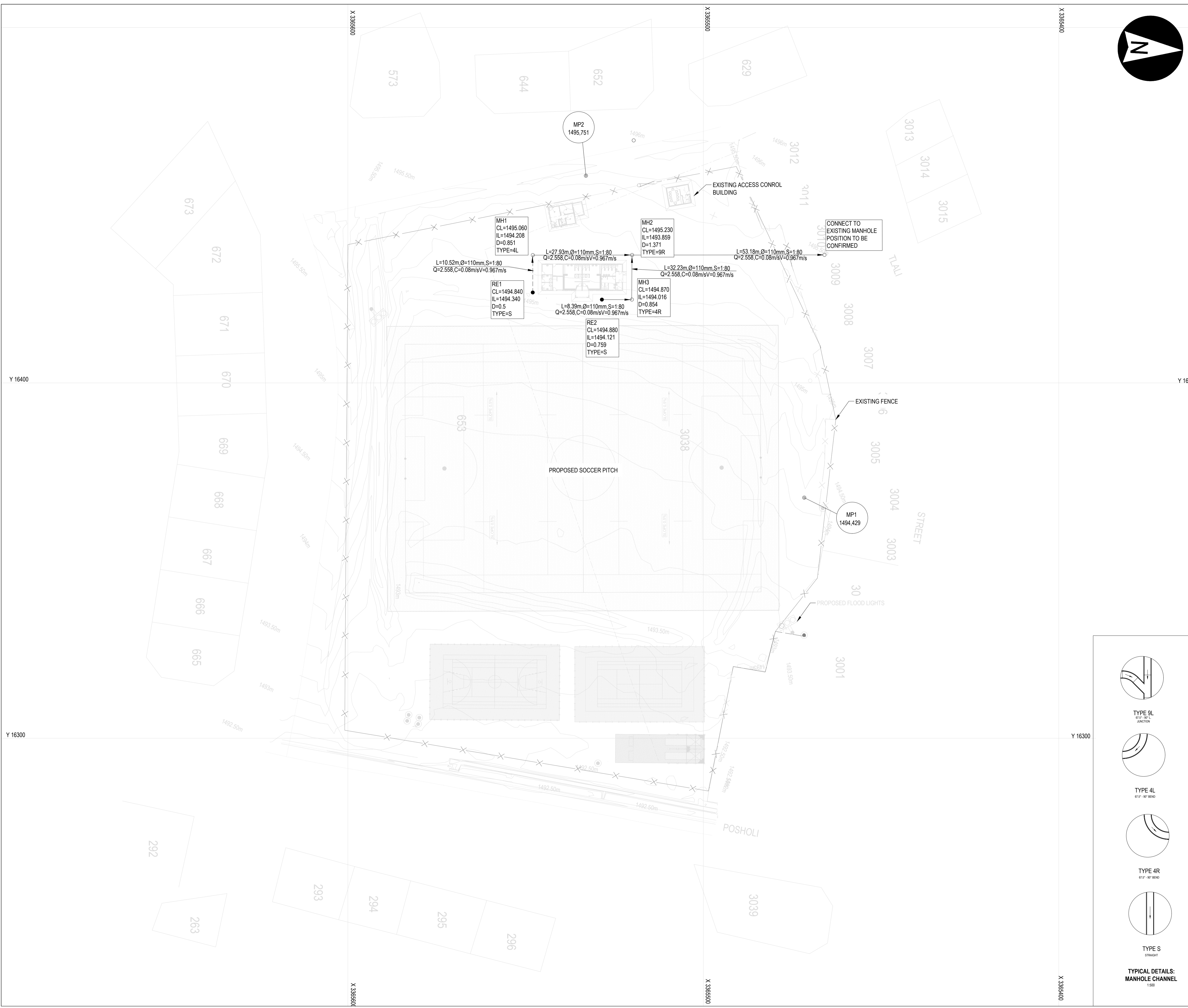
AMMENDMENTS			
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MOHOKARE LOCAL MUNICIPALITY
ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

LAYOUT:WATER

DRAWING NO.	REVISION
1109-CIV-DRG-200	T0



LEGEND:

PROPOSED INSPECTION MANHOLE
 RE (RODDING EYE)
 PROPOSED SEWER LINE 110mm

MH = MANHOLE NAME
 CL = COVER SLAB LEVEL
 D = DEPTH TO MANHOLE/CONNECTION(m)
 T = TYPE OF MANHOLE
 IL = INVERT LEVEL 1

MH = MANHOLE NAME
 CL = COVER SLAB LEVEL
 D = DEPTH TO MANHOLE/CONNECTION(m)
 IL = INVERT LEVEL 1

LENGTH(m) X PIPE Ø(mm) X SLOPE(RATIO)
 ACTUAL FLOW(l/s) X CAPACITY(l/s)

S STRAIGHT CHANNEL
 L LEFT HAND
 R RIGHT HAND

TYPE 4Rc
 90° SINGLE HOUSE CONNECTION

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APPROVED:	OS MOTHIBI	SCALE: 1:500

AMMENDMENTS

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CONSULTANT

CLIENT

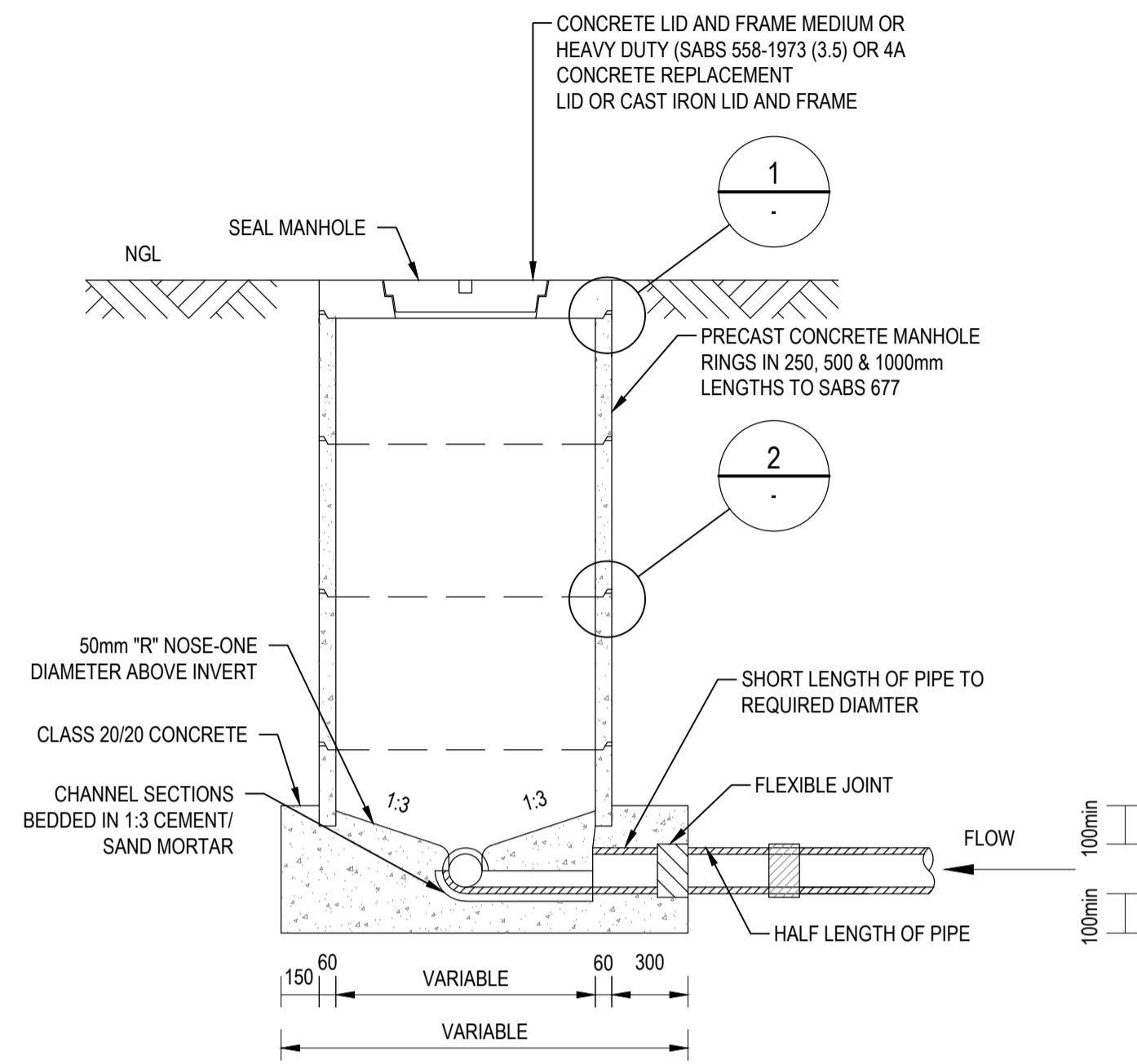
MOHOKARE LOCAL MUNICIPALITY

ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

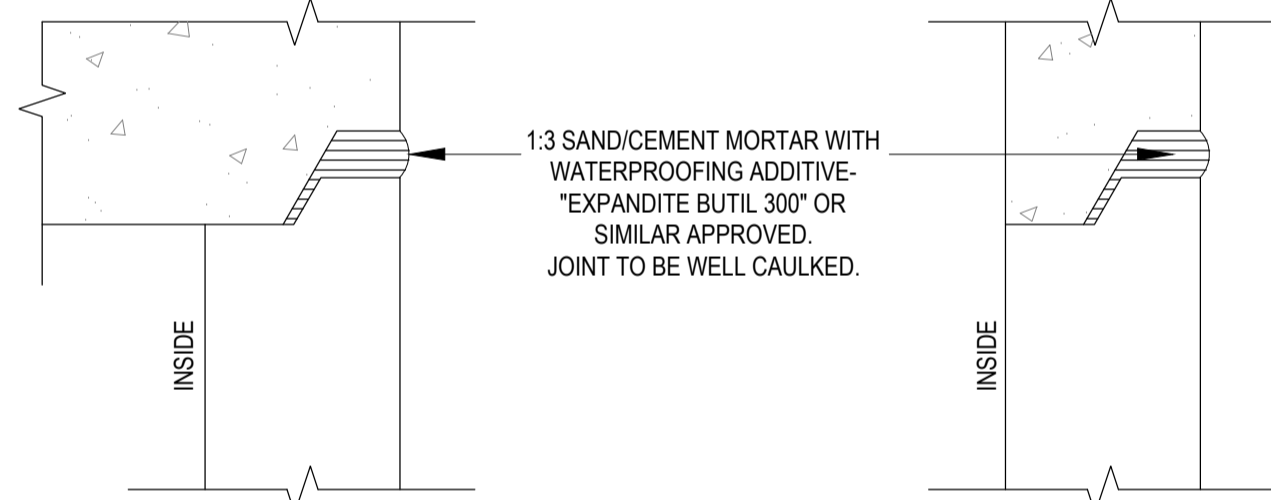
LAYOUT: WSEWER

DRAWING NO.	1109-CIV-DRG-300	REVISION	T0
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TYPICAL DETAILS: MANHOLE CHANNEL

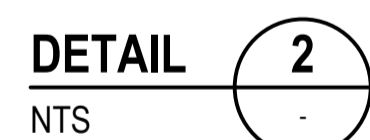
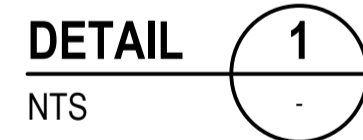


TYPICAL SECTION : MANHOLE CHAMBER

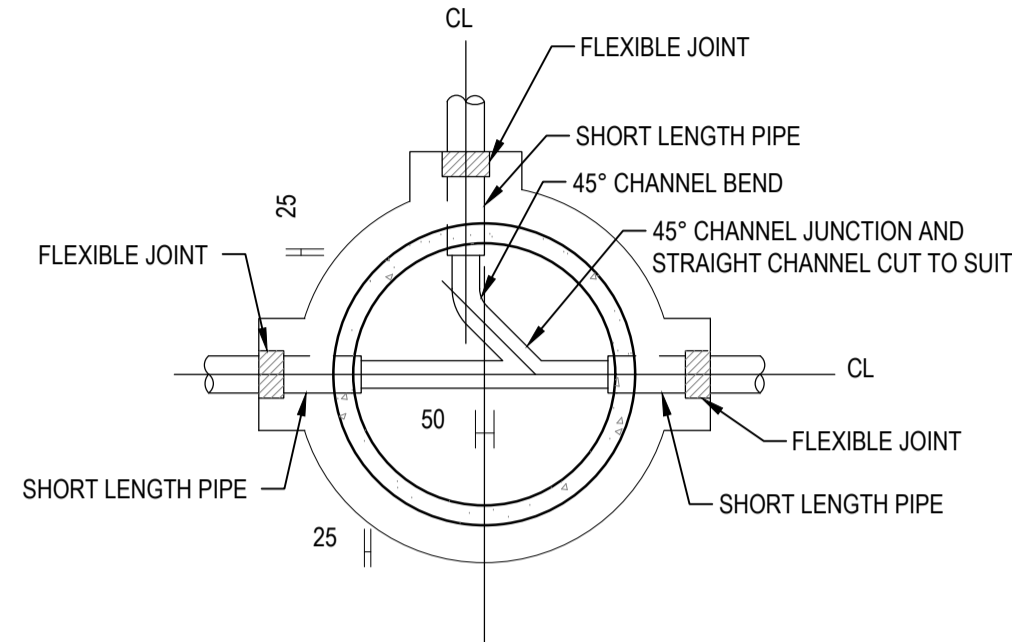


COVER SLAB

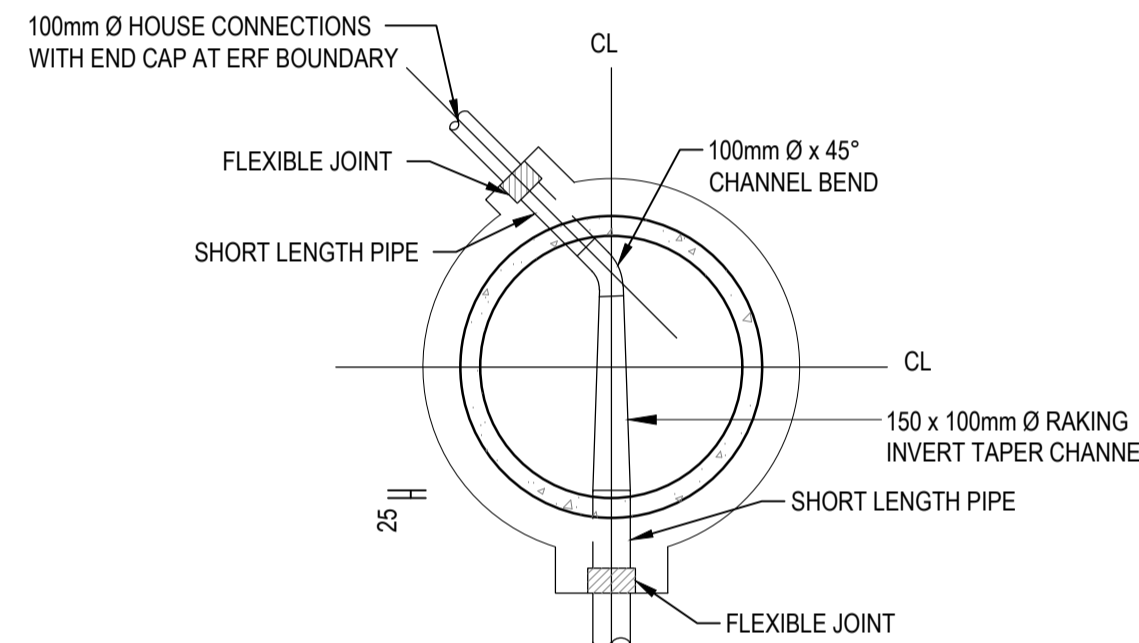
CONCRETE MANHOLE RINGS



**DETAIL R1:
TYPICAL SECTIONS THROUGH MANHOLE**

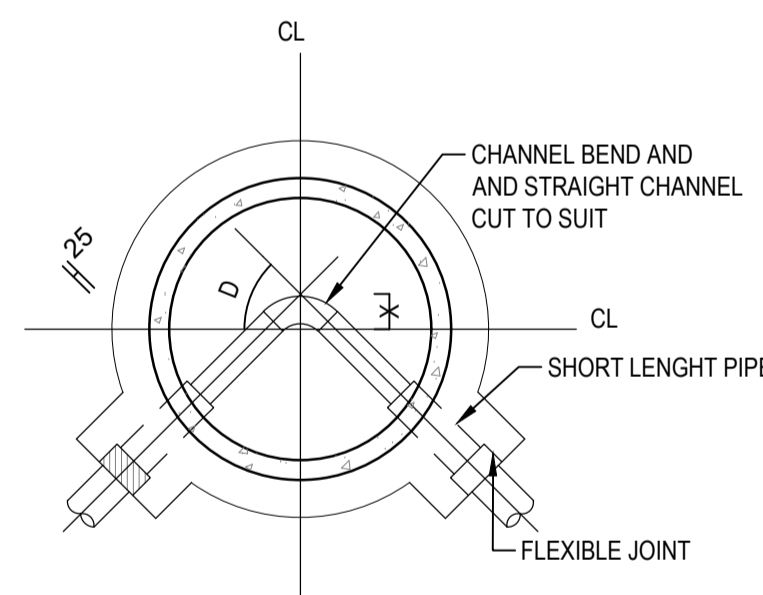


PLAN OF 90° BRANCH AND CONNECTION



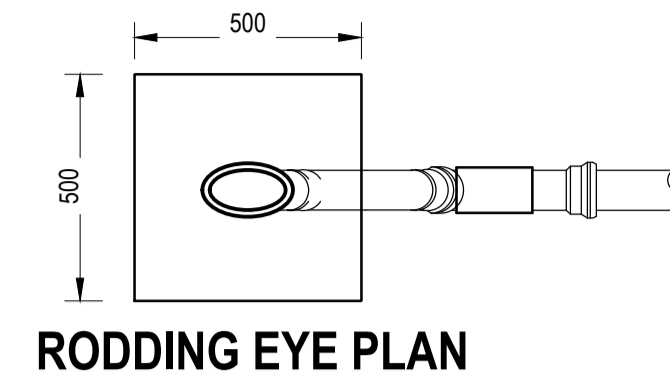
PLAN OF TERMINAL MANHOLES

TABLE	
DEF. ANGLE D	DISTANCE X
11.25°	50
22.5°	100
45°	140
67.5°	190
90°	230



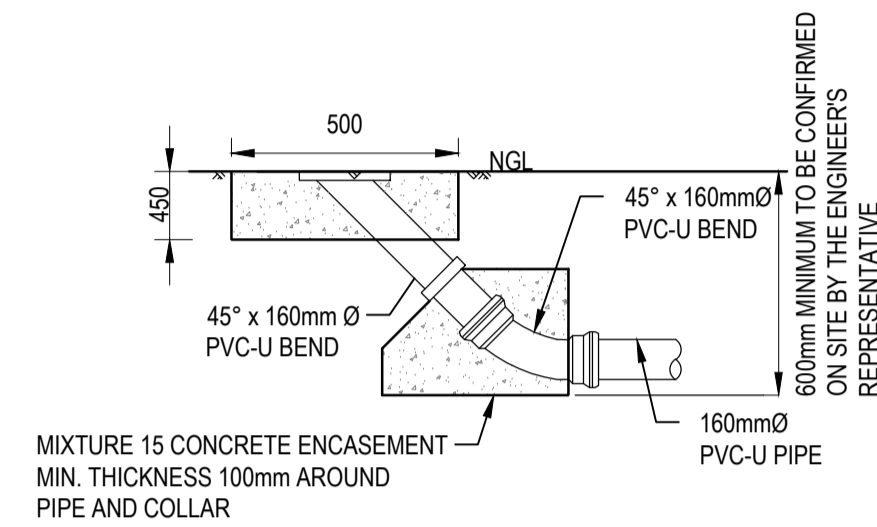
PLAN OF MANHOLE AT BENDS

**DETAIL R3:
TYPICAL CHANNEL LAYOUTS**



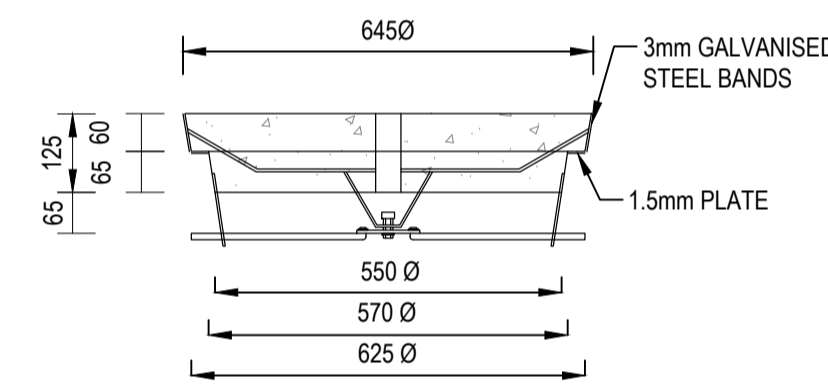
RODDING EYE PLAN

1:50



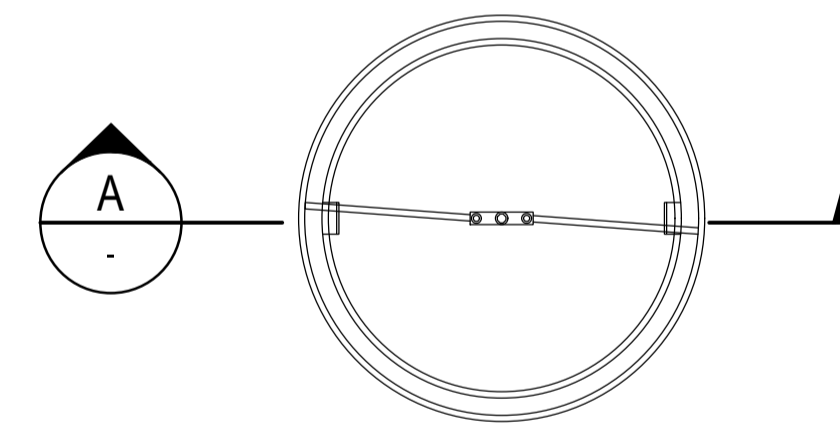
RODDING EYE CROSS SECTION (TYPE 1)

1:50



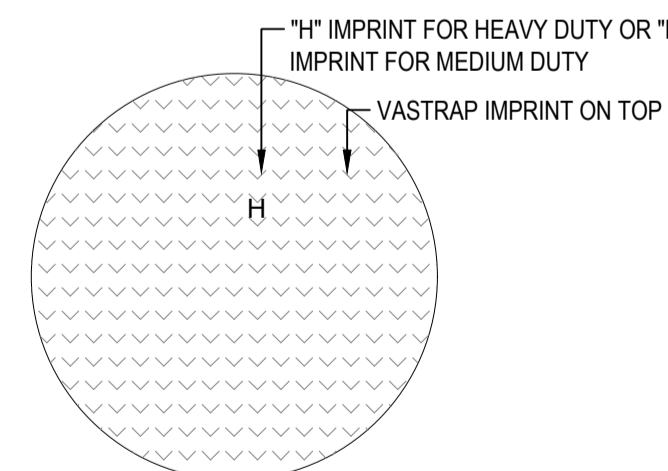
SECTION A

1:30



BOTTOM VIEW

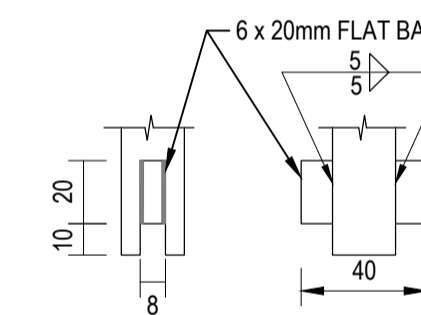
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TOP VIEW

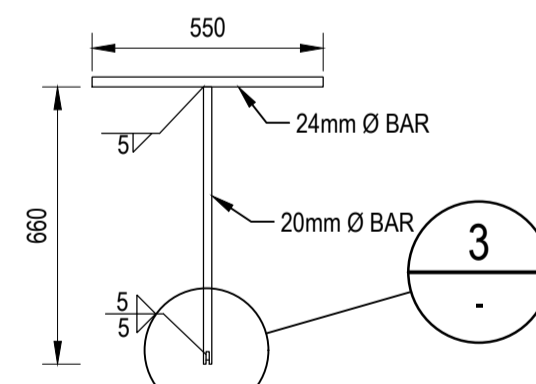
1:30

**DETAIL R6:
DETAIL OF MANHOLE LID WITH LOCKING DEVICE**



DETAIL 3

1:30



LOCKING AND LIFTING KEY

1:30

NOTES:

- RE (RODDING EYE)
- TYPE OF PIPE = 400kPa PVC-U HEAVY DUTY TWIN HALL.
- THE OCCUPATIONAL HEALTH AND SAFETY ACT NO 85 OF 85 OF 1993. CONSTRUCTION REGULATIONS OF 2003, REGULATION 9, STIPULATES THAT DESIGNERS OF STRUCTURES MUST:
 - INSPECT RECORDS KEPT ON SITE
 - STOP! WORK IF NOT IN ACCORDANCE WITH THE DESIGN
 - COMPLETION FINAL INSPECTION
 - ISSUE COMPLETION CERTIFICATE TO CONTRACTOR
- THEREFORE: NO WORK ON THIS PROJECT MAY COMMENCE WITHOUT THE WRITTEN CONSENT OF THE DESIGNER.

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CHECKED: SS MNTAMBO	OS MOTHIBI Pr Tech Eng-2015070157	
APPROVED: OS MOTHIBI	SCALE: AS SHOWN	

AMMENDMENTS

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CONSULTANT

see the RESULT

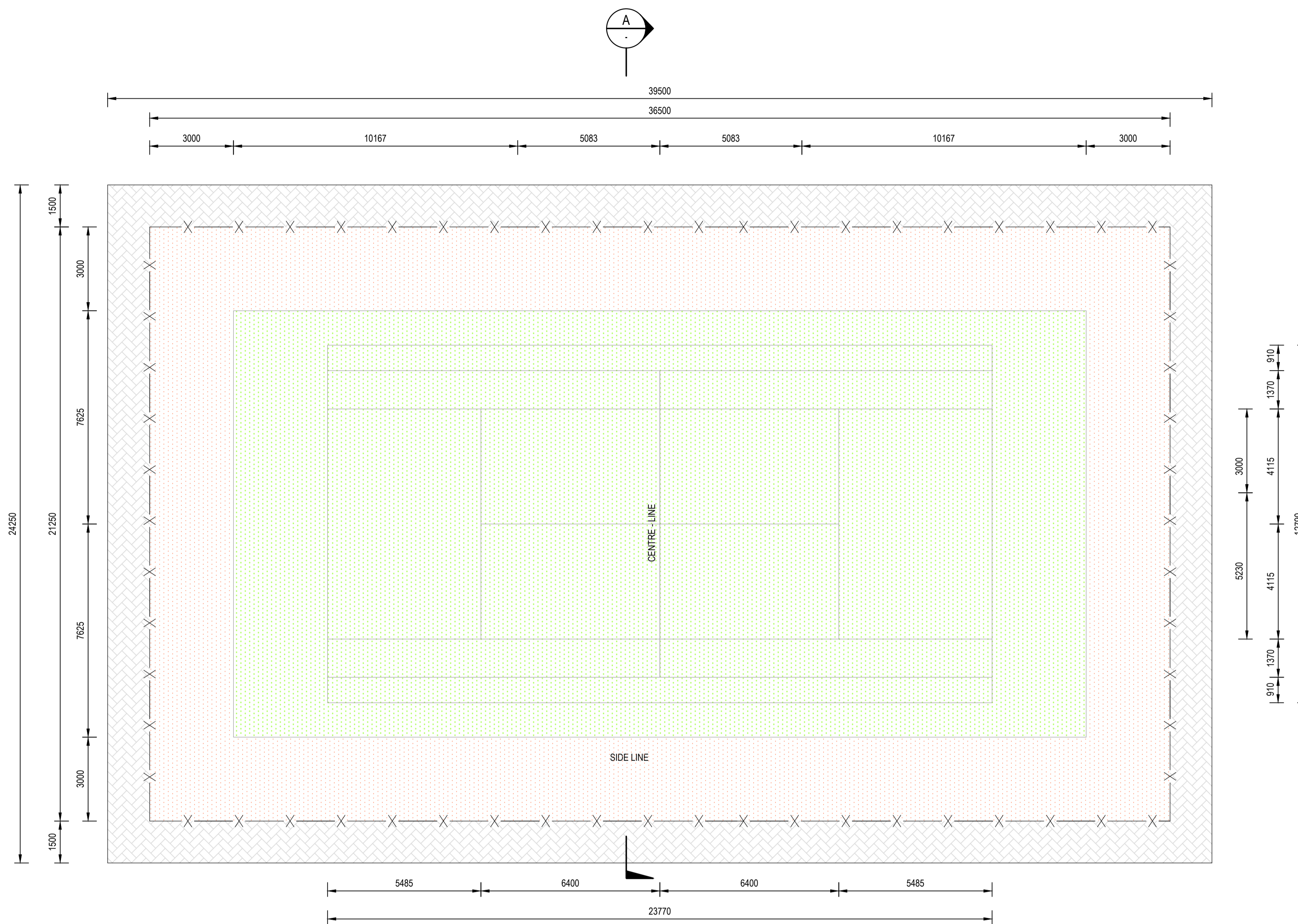
CLIENT

MOHOKARE LOCAL MUNICIPALITY

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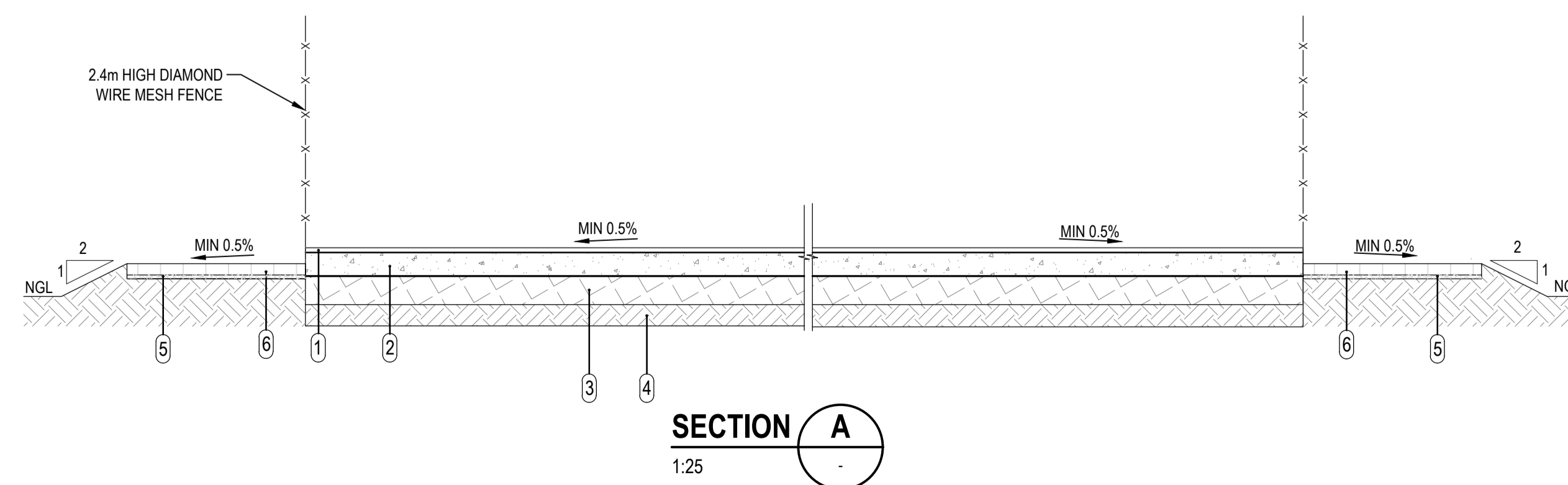
ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

DETAIL:SEWER



TENNIS/VOLLYBALL COURT PLAN VIEW

1:100



SECTION A
1:25

COURTS LAYERS DESIGN	
1	SURFACING : 25mm THICK SCREED WITH MARKINGS AND LINES AS PER THE DRAWING
2	CONCRETE SURFACE : 125mm THICK 25MPa SLAB REINFORCED WITH MESH REF NO.245 WITH 40mm COVER FROM THE TOP
3	SUBBASE : 150mm G6 COMPACTED TO 95% MODIFIED AASHTO DENSITY
4	IN-SITU : RIP AND RECOMPACT IN-SITU EARTH TO 93% MODIFIED AASHTO
5	BEDDING SAND : 20mm BEDDING SAND
6	APRON : 60mm 30MPa, TYPE S-A BLOCK PAVING

NOTES:

1. REMOVE ALL TOPSOIL AND LEVEL EARTH PLATFORM TO CORRECT SITE DEVELOPMENT LEVEL WITH PARTICULAR EMPHASIS ON NATURAL SUB-SOIL DRAINAGE. (SASR NORMS & STANDARDS VOL.2)
2. RIP AND COMPACT IN-SITU EARTH TO 93% MODIFIED AASHTO. (SASR NORMS & STANDARDS VOL.2)
3. COURT PAINTED MARKINGS WIDTH TO BE 50mm.

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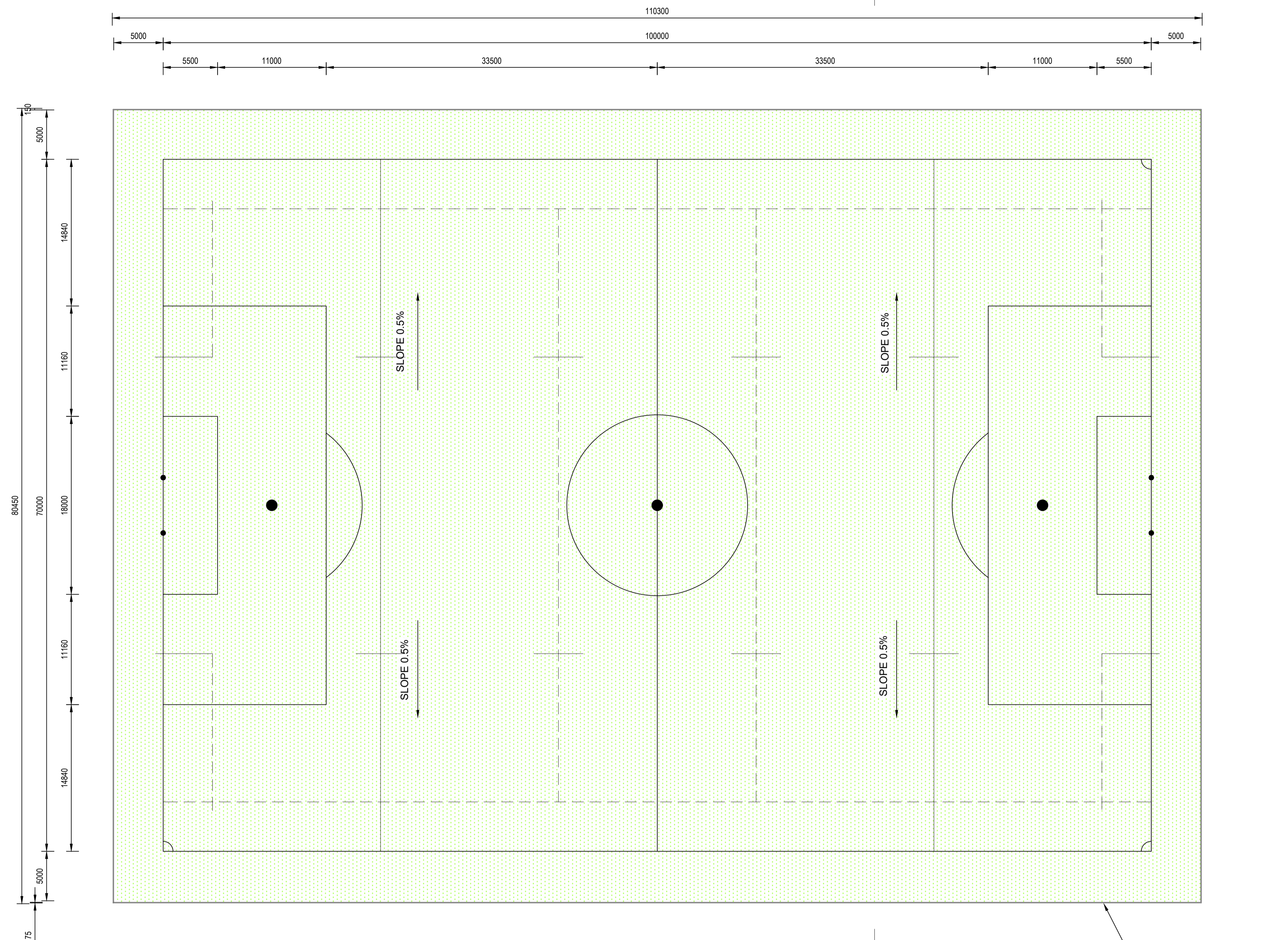


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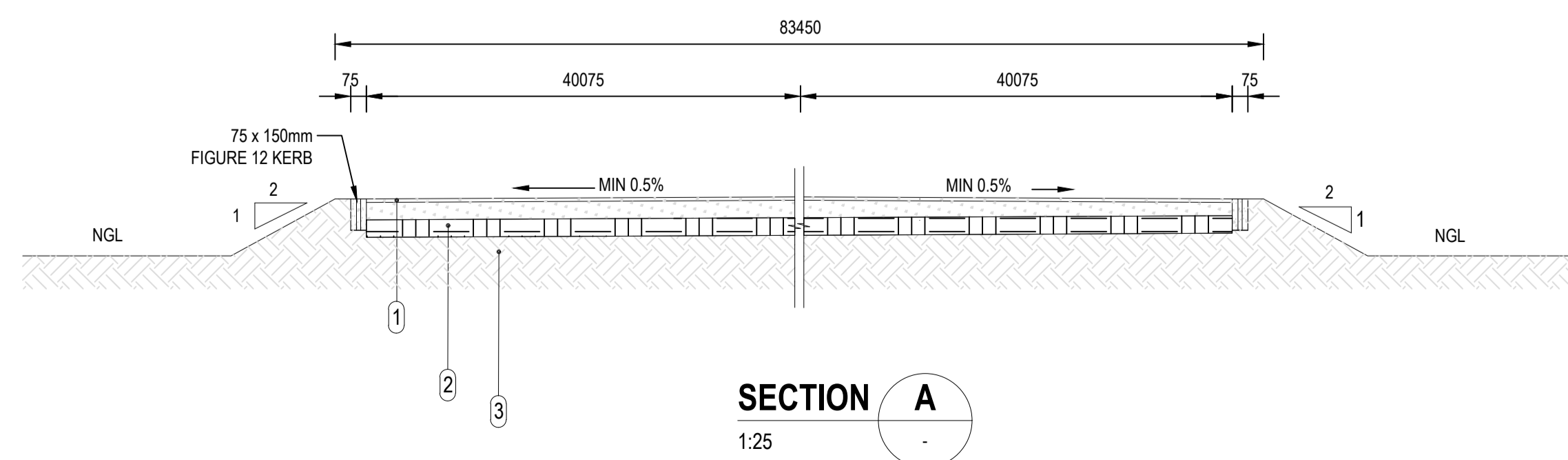
ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

LAYOUT: TENNIS AND VOLLYBALL COURT

DRAWING NO.	REVISION
1109-CIV-DRG-402	T0



SOCCER PITCH PLAN VIEW
SCALE 1:250



SECTION A
1:25

SOCCER PITCH LAYERS DESIGN	
1 GRASS	: SYNTHETIC GRASS TO BE LAID ACCORDING TO THE SUPPLIER'S SPECIFICATIONS
2 SUBBASE	: 150mm G6 COMPACTED TO 95% MODIFIED AASHTO DENSITY
3 IN-SITU	: RIP AND RECOMPACT IN-SITU EARTH TO 93% MODIFIED AASHTO

- NOTES :**
1. REMOVE ALL TOPSOIL AND LEVEL EARTH PLATFORM TO CORRECT SITE DEVELOPMENT LEVEL WITH PARTICULAR EMPHASIS ON NATURAL SUB-SOIL DRAINAGE.
 2. RIP AND COMPACT IN-SITU EARTH TO 93% MODIFIED AASHTO.
 3. THE FIELD MUST BE CLEARLY MARKED WITH LINES THAT ARE WIDER THAN 120mm.
 4. A SUITABLE MARKING INDICATING THE CENTER OF THE FIELD IS SURROUNDED BY A CIRCLE WITH A RADIUS OF 500mm .

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**ROUXVILLE/ROLELEATHUNYA
CONSTRUCTION OF SPORTS
GROUND_PHASE 2**

**DETAILS:
SOCCER PITCH**

DRAWING NO. 1109-CIV-DRG-400	REVISION T0
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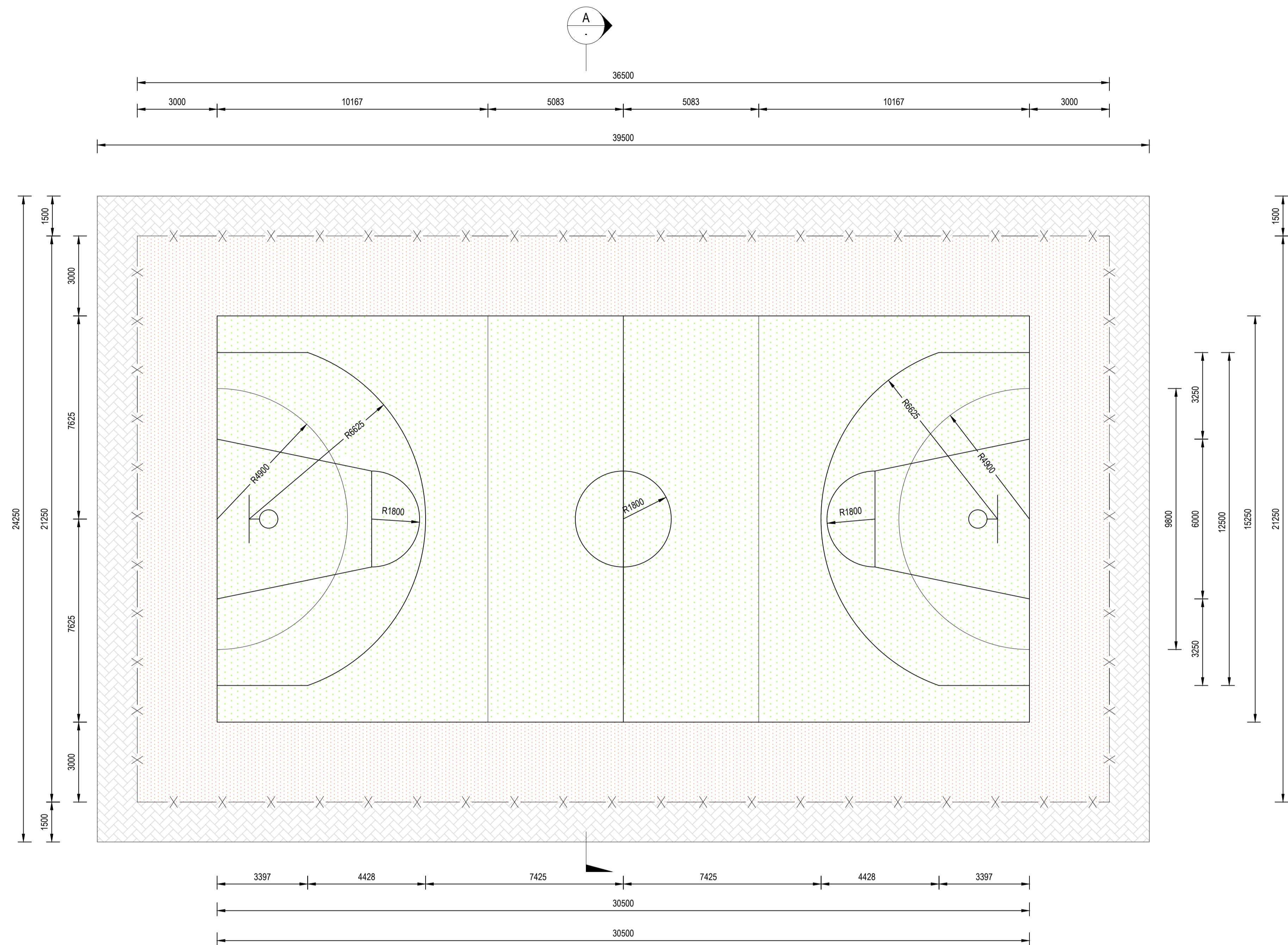
MOHOKARE LOCAL MUNICIPALITY

ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

LAYOUT: NETBALL AND BASKETBALL COURT

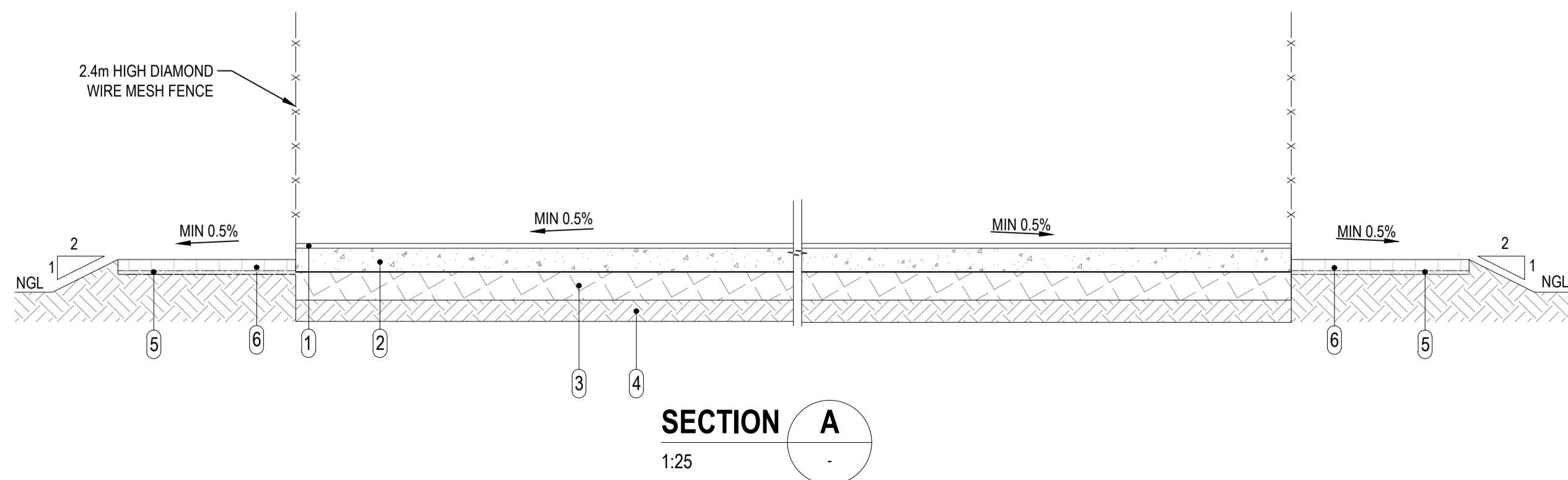
DRAWING NO.
1109-CIV-DRG-401

REVISION
T0



**NETBALL/BASKETBALL COMBI COURT
PLAN VIEW**

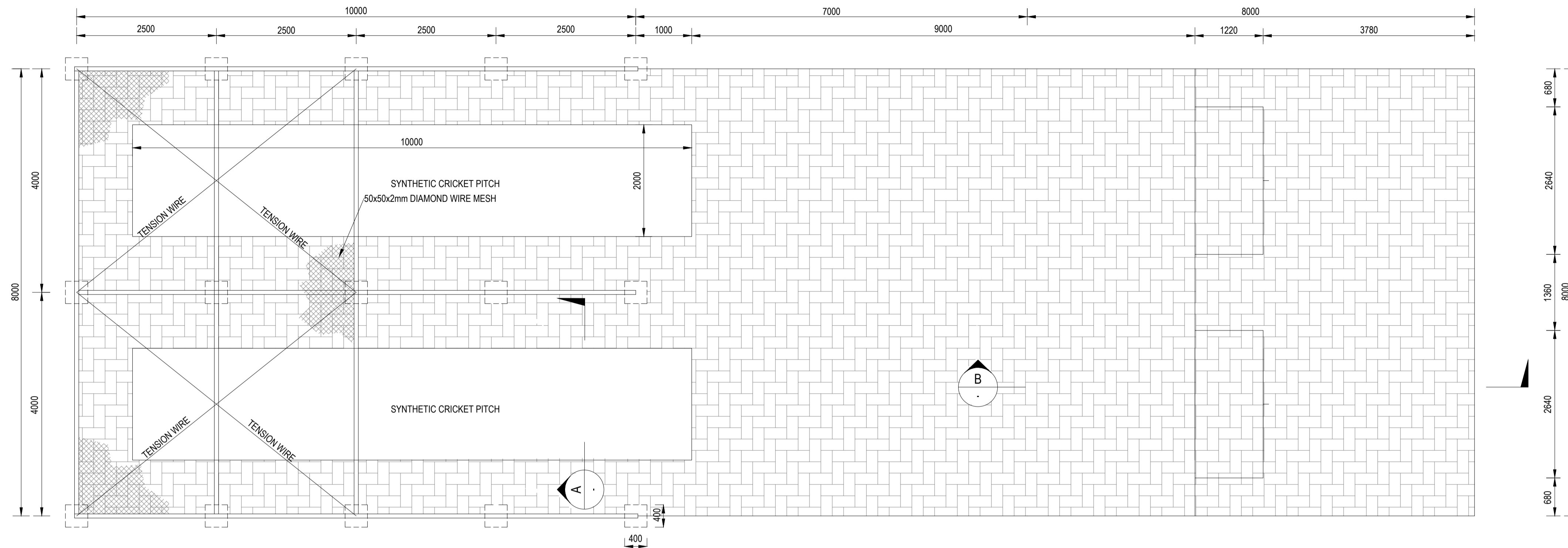
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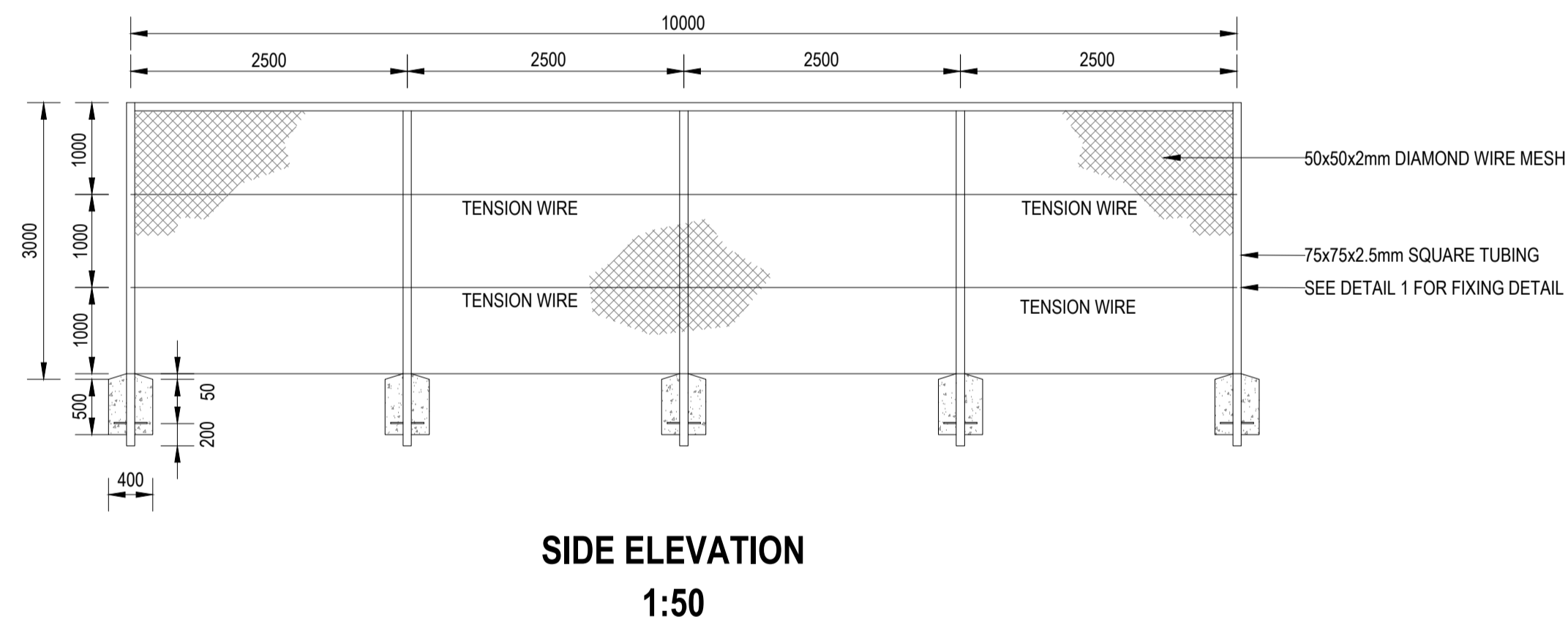
SECTION A
1:25

COURTS LAYERS DESIGN

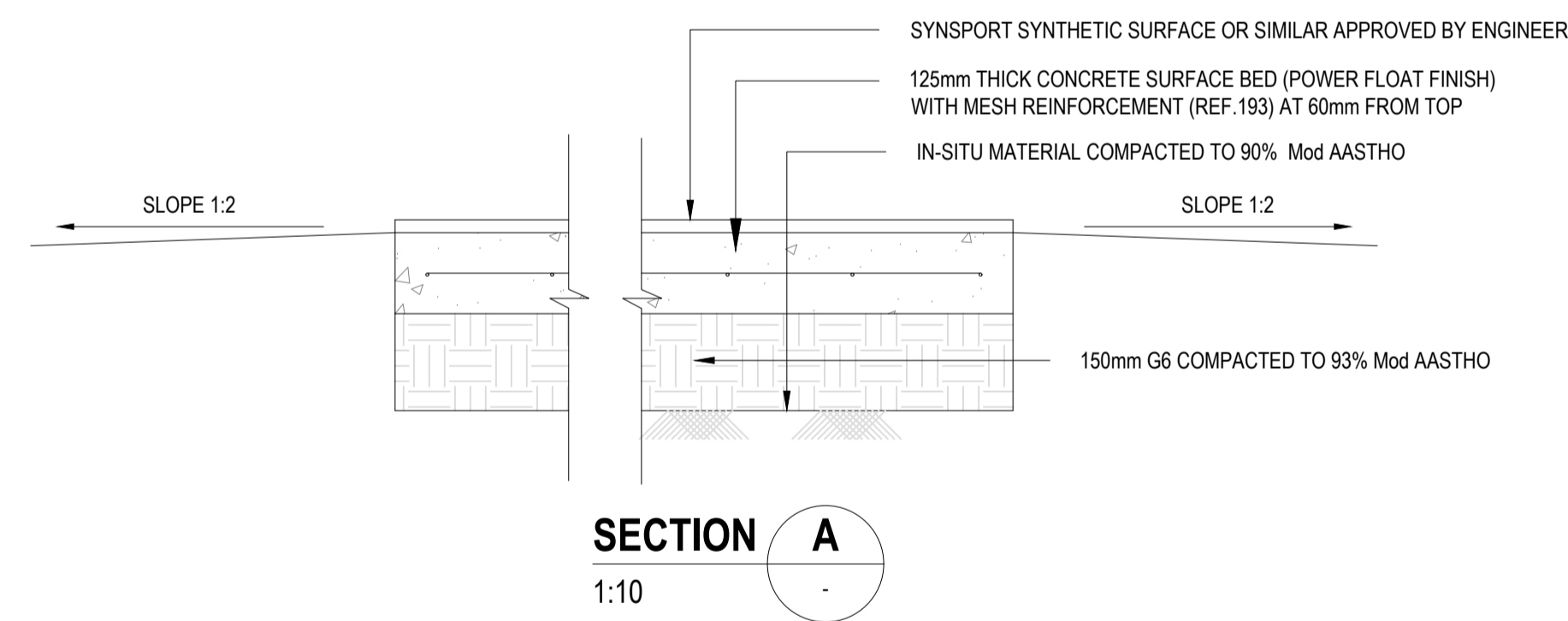
① SURFACING	: 25mm THICK SCREED WITH MARKINGS AND LINES AS PER THE SDRAWING
② CONCRETE SURFACE	: 125mm THICK 25MPa SLAB REINFORCED WITH MESH REF NO.245 WITH 40mm COVER FROM THE TOP
③ SUBBASE	: 150mm G6 COMPACTED TO 95% MODIFIED AASHTO DENSITY
④ IN-SITU	: RIP AND RECOMPACT IN-SITU EARTH TO 93% MODIFIED AASHTO
⑤ BEDDING SAND	: 20mm BEDDING SAND
⑥ APRON	: 60mm 30MPa, TYPE S-A BLOCK PAVING



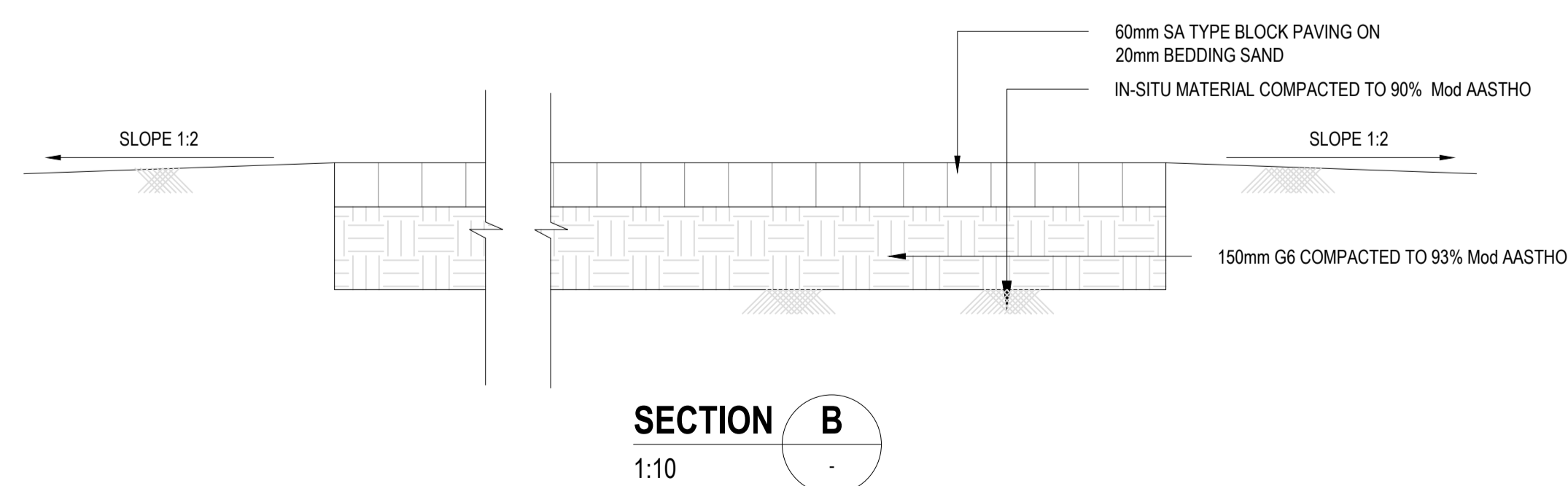
CRICKET PRACTISE NETS
1:50



SIDE ELEVATION
1:50



SECTION A
1:10



SECTION B
1:10

NOTES

1. ALL CONCRETE FOOTINGS TO BE 20 / 19 MPa.
2. ALL CONCRETE SURFACE BEDS TO BE 30 / 19 MPa
3. ALL CONCRETE BASES MUST BE 400x400x500mm IN DEPTH.
4. ALL PROFILES TO BE 75x75x2.5mm SQUARE TUBING AND EROSION PROTECTED (RED OXIDE AND ENAMEL PAINT, COLOR TO BE APPROVED BY CLIENT)
5. ALL WELDS TO BE 3mm ALL ROUND.
6. END CAPS TO BE WELDED TO PROFILES IF OPEN AT THE END.
7. WELD A 200mm R10 ROD TO EACH 75x75mm SQUARE TUBING 200mm FROM THE BOTTOM OF POLE FOR ANCHORAGE IN CONCRETE.
8. ALL LEVELS AND DIMENSIONS TO BE CONFIRMED ON SITE.
9. TENSION WIRE TO BE 3mm Ø HIGH TENSILE GRADE (SANS 675) FULLY GALVANIZED.
10. TYING WIRE TO BE 2.5mm Ø MILD STEEL FULLY GALVANIZED.
11. DIAMOND MESH TO BE 50x50x2mm FULLY GALVANIZED TIED TO STRUCTURE WITH TYING WIRE.
12. POPPING CREASE TO BE PAINTED WITH WHITE ENAMEL PAINT

*Drawing signed for approval
held at Engineering Aces offices*

DRAWN:	NP KHUMALO	TENDER DRAWINGS	DATE
DESIGNED:	N QWABE		
CHECKED:	SS MNTAMBO	OS MOTHIBI Pr Tech Eng-2015070157	
APPROVED:	OS MOTHIBI	SCALE: AS SHOWN	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
TO	19/03/2026	TENDER DRAWING	OS MOTHIBI

CONSULTANT



CLIENT



MOHOKARE LOCAL MUNICIPALITY

**ROUXVILLE/ROLELEATHUNYA
CONSTRUCTION OF SPORTS
GROUND_PHASE 2**

**LAYOUT:
CRICKET PRACTICE NETS**

DRAWING NO.
1109-CIV-DRG-402

REVISION

DESIGN & CONSTRUCTION NOTES

GENERAL:

- All building materials to be SABS approved (stamped where applicable)
- All workmanship to be carried out in accordance with National Building Regulations and Building Standards Act (Act 103 of 1977, as amended) and the NHBC Home Building Manual
- In case of uncertainty National Building Regulations and the NHBC Home Building Manual shall take precedence
- All raft foundations to be accompanied by the Engineer's certificate OR letter signed by the Engineer
- Foundation inspection to be done on open trench with steel reinforcement in place and when concrete is cast and cured
- Wall plate inspection to be done on un-plastered walls with all the brick joints visible
- Final completion (100%) to be done on a complete house (Ready for occupation)

CONSTRUCTION SPECIFICATIONS:

FOUNDATIONS:

- Foundation shall be as per the Engineer's design and specifications.
- Foundations shall be inspected and certified by a registered Engineer.
- On the foundation drawings it must be clearly stated which soil class the design is for (the geotechnical report used to design the foundation is required).
- Trenches must be dug out so that the foundation rests on hard ground, with the trench width and depth conforming to the Engineer's design.

WALLS:

- External walls to be double leaf 220mm thick cement NFP bricks (220x110x75) or similar approved (min 7Mpa) on 250micron DPC. The NFP brick to be built into the door frames and into the "FX7" steel window frames.
- Internal walls to be 220x110x75mm high special brick and duly bonded (built into) to external walls every 4th course, with DPC and brick force as above. The NFP brick to be built into the door frames and into the "FX7" steel window frames.
- Provide 2.8mm brick force every 3rd course, as well as every course above windows and doors or as specified by the engineer. Brick force to be tied securely between internal and external walls.
- Horizontal DPC in external walls shall be same level as top of concrete floor slab and 150mm above ground level.
- Horizontal DPC to be laid with mortar above the membrane, which extends over the full width of the wall including plaster thickness.
- Cement mortar mix for walls to be of 1:5 proportion by volume, 2 bags cement (1 wheelbarrow) : 5 builders wheelbarrows sand.
- Building sand to comply with SABS 1090 and be well graded from 5mm downwards. Sand should be evenly graded and should not contain an excess of dust or other fine material.
- Where applicable provide SABS approved waterproofing to shower walls and floor.
- Openings for waste pipes in walls to be neatly core drilled and not knocked open.

DOOR AND WINDOW FRAMES:

- "FX7" type steel window frames (1.2mm) or similar approved, to comply with SABS 727.
- External doors: Meranti Solid hardwood doors / BB Door with T&G pine slats on both sides of the door assisted with a solid internal frame. Treated with a mixture of linseed oil and turpentine .
- Internal doors: timber hollow core internal doors to be made out of rail . Stile, hinge block, semi solid composite board/ grid core paper lock block, composite board cross branding and hardwood face veneer.
- Provide 3 lever lock set for external doors, and 2 lever lock set for interior doors
- ND4 type window frame to living room, ND2 type to bedrooms, NC1 type to kitchen and NE1 type to the bathroom.

PLUMBING:

(All plumbing installation by a registered plumber)

- Provide a 1700x700mm standard perspex bath with 2 tap holes, securely built-into brick upstand support, silicone sealed all round against the walls, with cleaning eye with access, with SABS hot and cold water pillar taps (no plastic taps allowed) Bath to have a Ø50mm waste pipe, an overflow drain outlet and a 400x400mm openable service hatch.
- Provide a ceramic wash hand basin in bathroom min Ø350mm with 2 tap holes and hot and cold SABS pillar aps. Silicone sealed at wall and securely fixed to wall.
- Cistern to be made of porcelain 11 litres water capacity, complete with ball and beta valve, flushing mechanism and flush pipe.
- Water closet pan to be of glazed fire-clay or glazed porcelain, fixed to floor with 1:3 cement mortar mixes. Seat to be heavy duty plastic type with flap and hinges of similar quality properly fixed to the pan.
- Provide 1 stainless steel sink with 2 tap holes and hot and cold SABS pillar taps (no plastic taps allowed) to kitchen area. Sink to be at least 900mm long and securely fixed to wall, with brackets & silicone sealed against walls, with sink cupboard or sink unit.
- Class B galvanised pipes as per SABS 62 and 509 to be used on in feed pipe (external). Internally SABS plastic "Polycop" class 16 or similar approved.

DRAINAGE:

- Provide one (1) gully with a hose bib tap outside kitchen.
- All water supply piping to run inside house, only 1 inlet to be visible on exterior of house not longer/higher than 300mm above T.O.Slab.
- Provide a Ø50mm vent pipe to the drainage system.
- Provide rodding eye at head of drain and within 1.5m of connection point, and an inspection eye at each junction.
- Provide marked covers at ground level for rodding eyes.
- Drain pipes to be at least 1m away from the walls / foundations.
- Drain pipe invert level to be min 450mm at head of drain.

FINISHES:

- Floors to be power floated or have a smooth steel-trowelled finish
- All steel door and window frames, including concealed areas of these, to be painted with 1 coat of universal undercoat (oil based) and 2 final coats of enamel paint in addition to factory painted red oxide.
- External solid doors to be painted with linseed oil.
- Internal walls to be plastered and painted with undercoat and 2 final coats SABS approved PVA paint with 2 different paint colors as per elevations.

ROOF:

- SABS approved 0.5mm 'Full Hard', pre-painted chromadek roof sheeting IBR.
- Galvanized ridge plate, color to match. (overlapped at joints).
- Trusses to be bolt fixed to timber wallplate, or tied down with 2 strands of 4mm galvanised roof wire
- anchors built in 6 courses deep into walls tied over a nail in purlins.
- Storm clips on the bottom 2 rows on both eaves, and last 2 rows to the gable ends.

CEILING:

- Ceiling as per SANS 10400XA
- A minimum of 2.5m ceiling height
- 6.4mm Gypsum board ceiling with 135mm thick aerolite insulation to be fitted on 38x38mm, SA Pine brandering at 450mm c/c painted white, with 75mm standard cornice painted white fitted with Rhino board, and a 610x610mm standard trap door. All ceiling members to be painted white.

GLAZING:

- Glass area of less than 0.75m² to be 3mm thick
- All glass more than 0.75m² to be 4mm thick
- Glass to bathroom to be 4mm obscured glass
- All putty to be treated with a hardener and finished off with universal undercoat & 2 coats enamel based paint to final color and finish
- Glass to comply with SABS 0137

GENERAL:

- All work to comply with NBR of SA & standards act of SANS 10400
- All dimensions and levels to be checked and this drawing is not to be scaled under whatever circumstances

Drawing signed for approval held at Engineering Aces offices

DRAWN:	NP KHUMALO	TENDER DRAWINGS	
DESIGNED:	TA MARAIS		DATE
CHECKED:	OS MOTHIBI	TA MARAIS Pr.Arch. D: 21015	
APPROVED:	TA MARAIS	SCALE: 1:6	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	19/03/2026	TENDER DRAWING	T MARAIS

CONSULTANT



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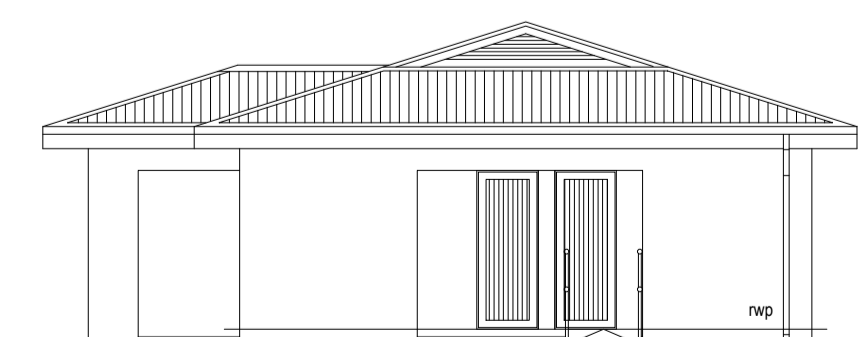
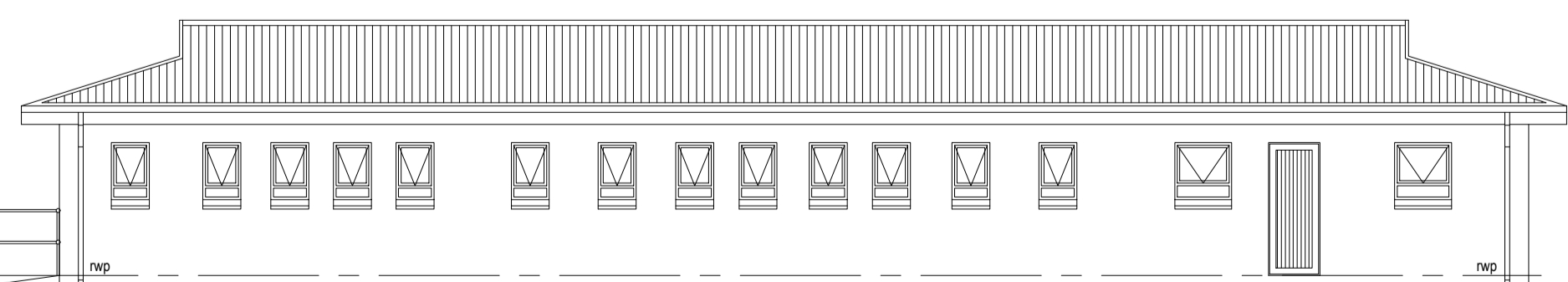
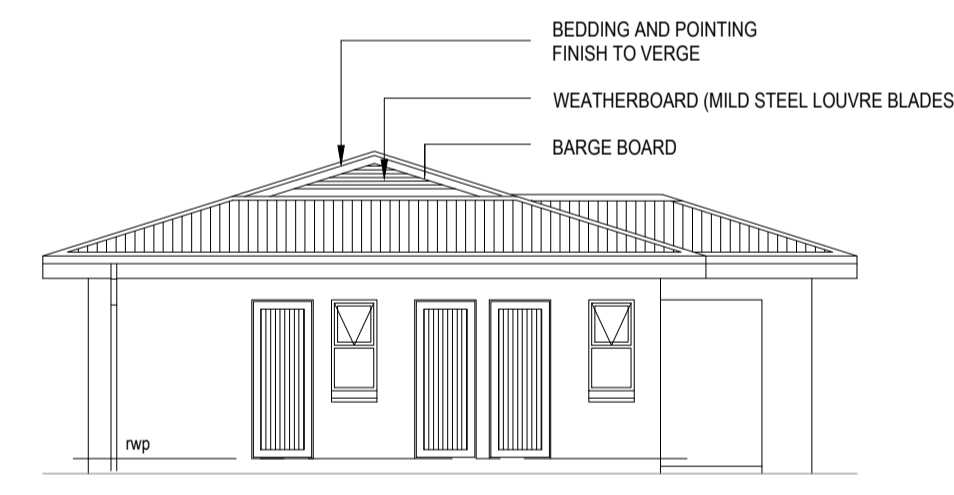
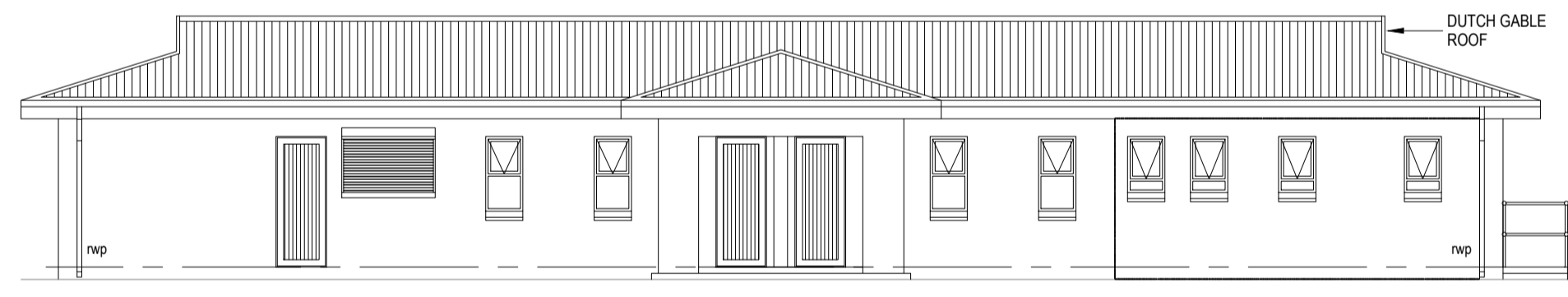
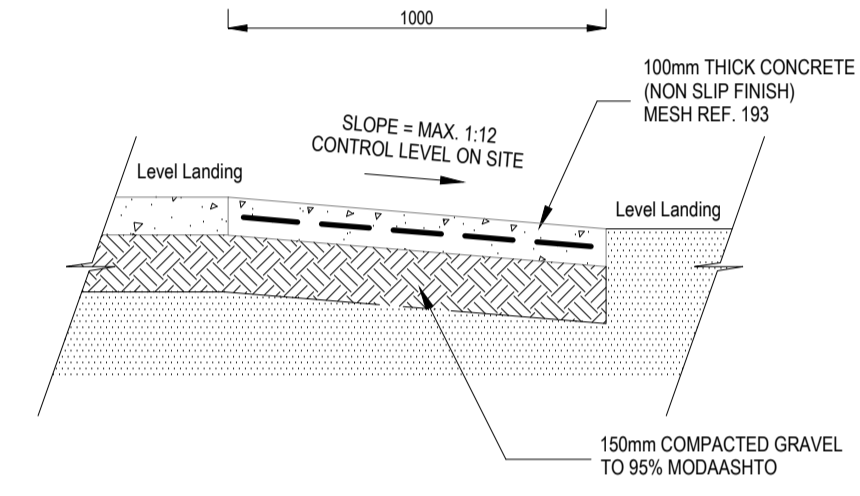
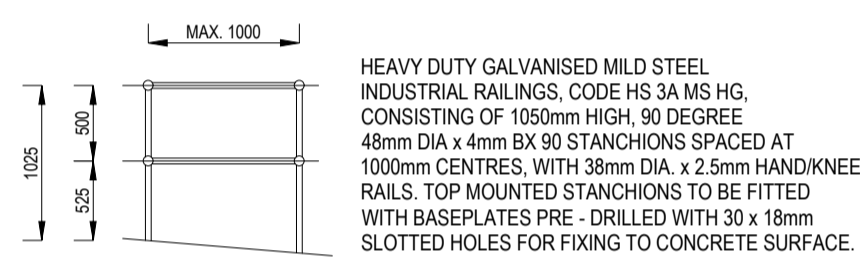
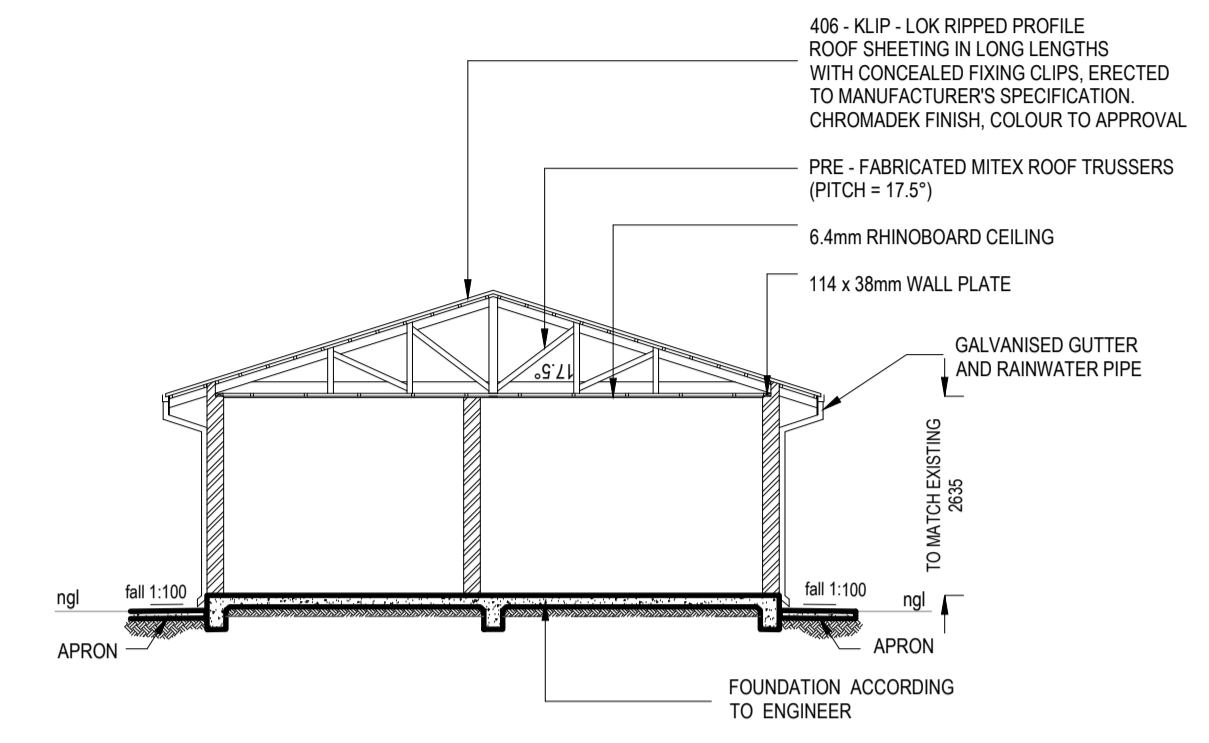
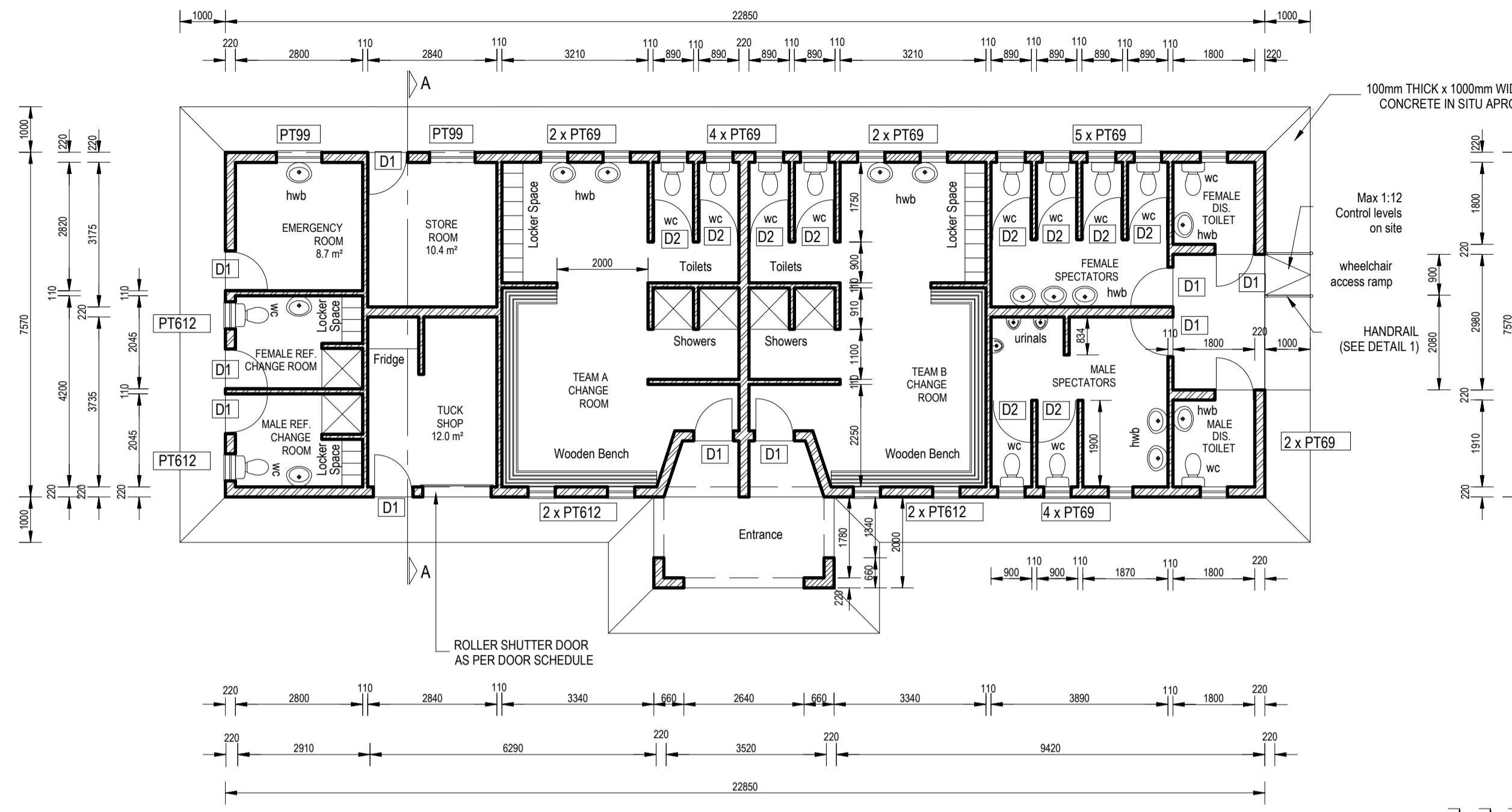


MOHOKARE LOCAL MUNICIPALITY

ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

DETAIL :ARCHITECTURAL GENERAL NOTES

DRAWING NO. 1109-DRG-ARC-100	REVISION T0
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DRAWN:	NP KHUMALO	TENDER DRAWINGS	DATE
DESIGNED:	TA MARAIS		
CHECKED:	OS MOTHIBI	TA MARAIS Pr.Arch. D-21015	
APPROVED:	TA MARAIS	SCALE: AS SHOWN	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	19/03/2026	TENDER DRAWING	T MARAIS

CONSULTANT

see the **RESULT**

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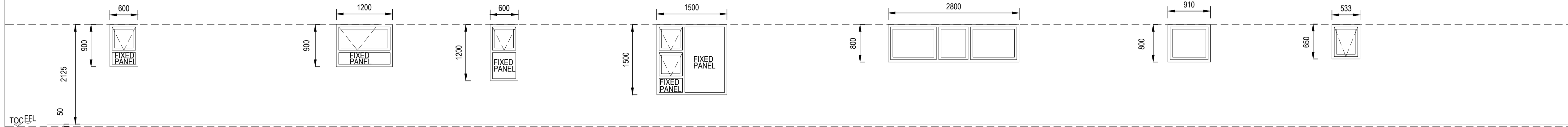
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ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE 2

LAYOUT: ABLUTION AND CHANGING ROOMS

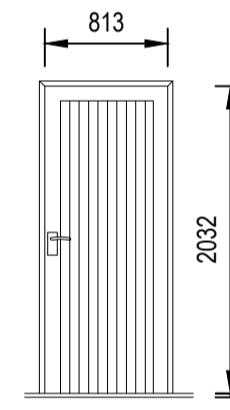
DRAWING NO.	REVISION
1109-ARC-DRG-101	T0

WINDOW SCHEDULE



WINDOW NO.'S	PT 69	PT 99	PT 612	PTT 1515	W1	W2	WINDOW NO.'S	NE1
WINDOW TYPE	FIXED BOTTOM GLASS PANEL WITH TOP HUNG OPENING OUT						WINDOW TYPE	FULL PANE STEEL WINDOW
FRAME TYPE	ALUMINIUM SHOPFRONT CLIP44 268 OR EQUAL APPROVED							
GLAZING	4mm FLOATGLASS OR 6mm SAFETY GLASS AS PER NATIONAL BUILDING REGULATIONS							
IRONMONGERY	HANDLE : ALUMINIUM HANDLE TO MATCH HINGES : TO MANUFACTURER'S SPEC'S							
FINISH	POWDER COATED - ANP 3056							
OPENING IN BRICK WALL	W & H = AS PER DIM'S ABOVE							

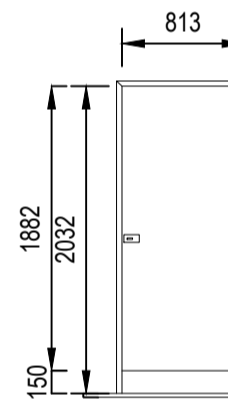
DOOR SCHEDULE



TDM TECHFORM HEAVY DUTY CLASS 1
EXTERIOR HARDWOOD, FINGER JOINTED
STANDARD DOOR WITH WEATHERBOARD
(CODE : 82112). SIZE TO SUIT FRAME x 42mm THICK
MANUFACTURED IN ACCORDANCE WITH SANS 545 : 2009.

NOTE :
MAX. 4mm GAP ALL ROUND BETWEEN DOOR AND FRAME.
ALL MILD STEEL SECTIONS TO BE HOT DIPPED GALVANISED

SOLID HARDWOOD DOOR (D1)



40mm THICK SEMI - SOLID DOOR WITH HARDBOARD
FLUSH PANELS SUITABLE FOR PAINTING AS BY
TDM OR EQUAL APPROVED.

NOTE :
MAX. 4mm GAP ALL ROUND BETWEEN DOOR AND FRAME.
ALL MILD STEEL SECTIONS TO BE HOT DIPPED GALVANISED

WC CUBICLE DOOR (D2)

*Drawing signed for approval
held at Engineering Aces offices*

DRAWN:	NP KHUMALO	TENDER DRAWINGS	DATE
DESIGNED:	TA MARAIS		
CHECKED:	OS MOTHIBI	TA MARAIS Pr.Arch.D-21015	
APPROVED:	TA MARAIS	SCALE: 1:100	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	19/03/2026	TENDER DRAWING	T MARAIS

CONSULTANT



see the **RESULT**

CLIENT



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ROUXVILLE/ROLELEATHUNYA
CONSTRUCTION OF SPORTS
GROUND_PHASE 2

DETAILS:
WINDOW & DOOR
SCHEDULE

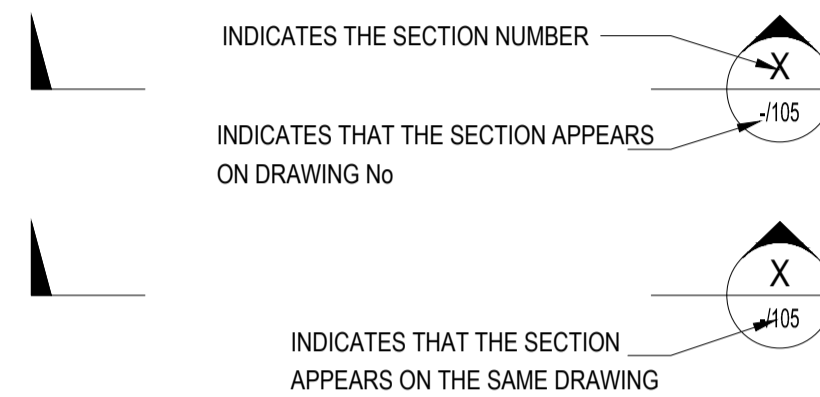
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1109-ARC-DRG-102	T0

THE FOLLOWING GENERAL NOTES ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS WHERE APPLICABLE:

1. PLAIN AND REINFORCED CONCRETE
2. LOAD-BEARING MASONRY
3. STRUCTURAL STEELWORK
4. CONCRETE SCREED
5. TIMBER STRUCTURES

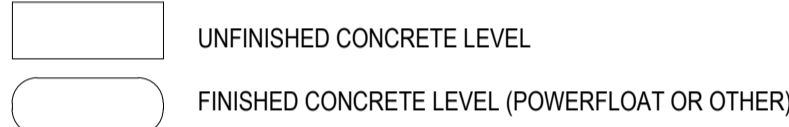
GENERAL:

G1. LEGEND INDICATING SECTIONS AND DETAILS:



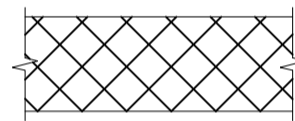
G2. ALL BASES AND COLUMNS ARE SYMMETRICAL ON GRIDLINES UNLESS OTHERWISE INDICATED.

G3. ALL LEVELS ON DRAWINGS REFER TO THE TOP OF CONCRETE UNLESS OTHERWISE INDICATED.



G4. DIMENSIONS OF BEAMS ARE SHOWN AS WIDTH x DEPTH.

G5. CONTINUOUS LOADBEARING SLIDING SUPPORTS ARE INDICATED AS FOLLOWS:



G7. ALL BEAMS AND STRUCTURAL SLABS MUST BE PROVIDED WITH AN UPWARD CAMBER AS SHOWN BELOW UNLESS INDICATED OTHERWISE:
CANTILEVERS SPAN DIVIDED BY 200
ALL OTHER SPANS SPAN DIVIDED BY 500

G7. JOINTS INDICATED IN SURFACE BEDS, SLABS AND BEAMS ARE ALSO TO BE CONSTRUCTED IN BRICK WALLS, SCREEDS AND FINISHES.

G8. THE CONTRACTOR MUST ENSURE THAT ALL EMBEDDED ITEMS AND PENETRATIONS FOR SERVICES HAVE BEEN PROVIDED FOR AND POSITIONED ACCORDING TO THE LATEST DRAWINGS OF ALL DISCIPLINES BEFORE CASTING CONCRETE.

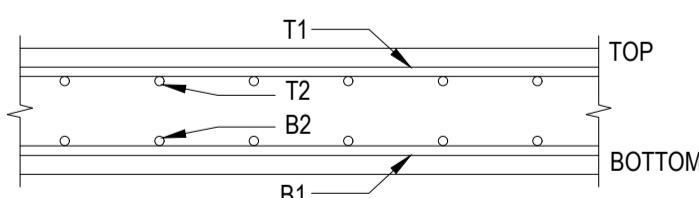
G9. PROVISIONS FOR PROPS UNDER SLABS AND BEAMS: THE CONTRACTOR MUST ENSURE THAT BEAMS AND/OR SLABS HAVE SUFFICIENT STRENGTH AND/OR ARE ADEQUATELY PROPPED TO CARRY CONSTRUCTION LOADS FROM ABOVE. DISCUSS WITH ENGINEER. THE CONTRACTOR TO ENSURE THAT THE NECESSARY PROVISION IS MADE IN THE SUPPORTWORK FOR 2 SLABS TO SUPPORT THE WET WEIGHT OF ONE SLAB. e.g FOR THE CASTING OF LEVEL 5 SLAB SUPPORTWORK MUST BE PROVIDED FROM LEVEL 3.

G10. ENGINEER TO CONFIRM FOUNDATION EXCAVATION LEVELS ON SITE. EXTRA EXCAVATION DOWN TO ACCEPTABLE MATERIAL SHALL BE BACKFILLED WITH MASS CONCRETE, UNLESS OTHERWISE SPECIFIED.

G11. REFER TO ARCHITECTS DRAWINGS FOR CONCRETE FINISHES, GROOVES, CHAMFERS, ETC. UNLESS OTHERWISE SHOWN ALL SMOOTH SURFACE CONCRETE CORNERS ARE TO BE PROVIDED WITH 20x20mm CHAMFERS.

G12. STORAGE OF CEMENT: CEMENT SHALL NOT BE STORED FOR LONGER PERIODS THAN 6 WEEKS WITHOUT THE APPROVAL OF THE ENGINEER.

G13. SYMBOLS DENOTING LAYERS OF REINFORCEMENT IN SLABS:



G14. ALL CONCRETE MIX DESIGNS, FORMWORK STRIPPING TIMES AND CURING PROCEDURES TO BE APPROVED BY THE ENGINEER BEFORE COMMENCING WITH CONSTRUCTION OF ANY CONCRETE WORK.

G15. ALL CONTRACTORS QA DOCUMENTATION TO BE FORWARDED TO THE ENGINEER FOR APPROVAL BEFORE COMMENCING WITH CONSTRUCTION OF ANY STRUCTURAL WORK.

G16. CONTRACTOR TO CHECK ALL DIMENSIONS AND LEVELS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

G17. THE TOP OF ALL VERTICAL CONCRETE ELEMENTS THAT SUPPORT HORIZONTAL CONCRETE ELEMENTS TO BE WELL SCABBLED AND CLEANED PRIOR TO CASTING CONCRETE.

CONCRETE:

C1. MATERIALS AND MIX PROPORTIONS:
1.1 THE GRADES FOR CONCRETE & STRENGTH @ 28 DAYS UNLESS OTHERWISE INDICATED SHALL BE AS FOLLOWS:

STRIP FOOTINGS	CLASS 30/19 30MPa
PAD FOOTINGS	CLASS 30/19 30MPa
PILES	CLASS 30/19 30MPa
SURFACE BEDS	CLASS 30/19 30MPa
COLUMNS	CLASS 30/19 30MPa
WALLS	CLASS 30/19 30MPa
SLABS	CLASS 30/19 30MPa
BLINDING LAYERS	CLASS 10/19 10MPa
MASS CONCRETE	CLASS 10/19 10MPa

1.2 WHEN READY MIXED CONCRETE IS USED, TEST CUBES ARE TO BE TAKEN ON SITE WHILST CASTING IN ACCORDANCE WITH SANS REQUIREMENTS.

C2. CONCRETE COVER OVER REINFORCEMENT UNLESS SHOWN DIFFERENTLY:
SURFACE BEDS = 40mm FROM TOP
SLABS AND BEAMS = 40mm
COLUMNS = 40mm
PILE CAPS/FOUNDATIONS = 50mm (OR AS INDICATED ON BS)
GROUND BEAMS = 50mm
STAIRS = 40mm
RETAINING WALLS = 50mm

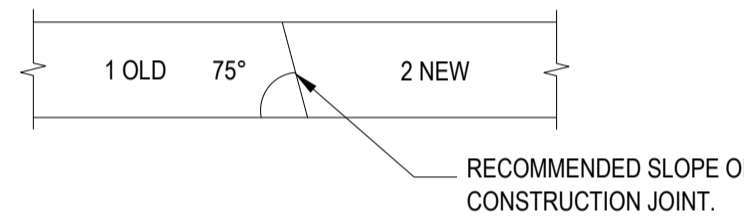
C3. CASTING OF CONCRETE IN EXCESS OF 3.5m HIGH IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER. C256;

C4. REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER ONLY AFTER IT HAS BEEN COMPLETELY FIXED IN POSITION, FORMWORK IS CLEAN, SPACERS ARE PLACED IN POSITION AND AFTER THE CONTRACTOR HAS INSPECTED IT HIMSELF AND ALL QA DOCUMENTATION HAS BEEN SIGNED OFF BY THE MAIN CONTRACTOR AND RELEVANT SUB-CONTRACTORS. C256;

C5. WELDING OF REINFORCEMENT IS NOT ALLOWED UNLESS IT HAS BEEN APPROVED BY THE ENGINEER IN WRITING.

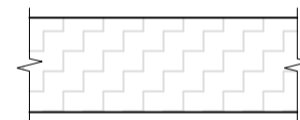
C6. CONSTRUCTION JOINTS IN SLABS/BEAMS: THE POSITION OF ALL CONSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER IN WRITING.

BEFORE COMMENCING TO CAST NEW CONCRETE (AS INDICATED BY 2) THE SURFACE OF THE OLD CONCRETE (INDICATED BY 1) SHALL BE CLEANED AND CHIPPED TO EXPOSE THE AGGREGATE AND SHALL BE KEPT WET FOR 2 HOURS BEFORE CASTING. THE OLD CONCRETE MUST BE SLUSHED WITH CEMENT BEFORE CASTING.



C7. 50mm BLINDING LAYER IS TO BE PROVIDED UNDER ALL BASES UNLESS INDICATED OTHERWISE (CLASS 10/19 CONCRETE).

C8. SHRINKAGE STRIPS IN CONCRETE FLOORS SHALL NOT BE CAST WITHIN 21 DAYS OF CASTING THE LAST SURROUNDING SLAB. NOTE THAT THE BAY CONTAINING THE SHRINKAGE STRIP MUST REMAIN PROPPED UNTIL ALL CONCRETE HAS REACHED THE THE REQUIRED AGE.



C9. CONSTRUCTION JOINTS:
9.1 NO HORIZONTAL JOINTS SHALL BE ALLOWED IN BASES OR OTHER DEEP ELEMENTS.
9.2 CONSTRUCTION/BUTT JOINTS ARE TO BE FORMED ACCORDING TO SPECIFICATION.
9.3 ALL PIPES THROUGH JOINTS SHALL BE PROVIDED WITH AN EXPANSION JOINT OR FLEXIBLE COUPLING - THIS INCLUDES ALL CABLE SLEEVES, CONDUITS AND PIPES.
9.4 NO VERTICAL CONSTRUCTION JOINTS SHALL BE MADE IN ELEMENTS DIRECTLY EXPOSED TO THE WEATHER EXCEPT WHERE INDICATED OTHERWISE.

C10. REFER TO PROJECT SPECIFICATION FOR DEGREE OF ACCURACY OR AS SPECIFIED ON DRAWINGS.

C11. ALL SLAB PANELS WITH UPSTAND BEAMS TO REMAIN PROPPED UNTIL THE UPSTANDS HAS BEEN CAST AND IS 14 DAYS OLD. THE TOP OF THE SLAB TO BE WELL SCABBLED AND CLEANED AND A WET TO DRY EPOXY TO BE PROVIDED TO THE ENGINEER'S APPROVAL.

SURFACE BED:

- SB1. SAWN JOINTS TO BE PROVIDED WITHIN 24 HOURS AFTER CASTING OF CONCRETE.
- SB2. FOR DETAILS OF DAMP PROOF COURSE UNDER SURFACE BEDS SEE TYPICAL SURFACE BED DRAWINGS AND DETAILS.
- SB3. BACKFILL AROUND COLUMNS AND WALLS TO COMMENCE EVENLY.
- SB4. CONSTRUCTION JOINTS IN FLOOR CHANNELS TO LINE UP WITH SURFACE BED JOINTS.
- SB5. ALL PIPED SERVICES AND CABLES MUST BE LAID DURING OR SOON AFTER THE CONSTRUCTION OF COLUMN AND SHAFT BASES.
- SB6. UNLESS OTHERWISE SPECIFIED, ALL FILL UNDER SURFACE BEDS SHALL BE G7 MATERIAL, COMPACTED IN LAYERS OF 150mm THICK TO 93% MOD AASHTO DENSITY.
- SB7. MINIMUM LAP LENGTH OF MESH REINFORCEMENT IS 400mm UNLESS NOTED OTHERWISE.
- SB8. REFER TO ARCHITECT'S DETAILS FOR TOP SURFACE FINISH, UNLESS OTHERWISE SHOWN.
- SB9. ALL DOWEL BARS ARE TO BE 100% STRAIGHT, LEVEL AND AT RIGHT ANGLES TO THE JOINT DIRECTION. THE ENDS OF DOWEL BARS SHALL BE CUT AND NOT SHEARED AND BE SMOOTH.
- SB10. SAWN JOINTS TO BE CUT AT RIGHT ANGLES TO CONSTRUCTION JOINTS UNLESS INDICATED OTHERWISE.
- SB11. SOILCRETE TO BE CAST IN CONFINED BACKFILLING SPACES BELOW SURFACE BEDS WHERE THE WIDTH IS LESS THAN 600mm.

STRUCTURAL STEEL:

- S1. ALL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH PROJECT SPECIFICATION.
- S2. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS UNLESS NOTED OTHERWISE.
- S3. ALL GUSSET PLATES SHALL BE 8mm THK. UNLESS NOTED OTHERWISE.
- S4. ALL WELDS SHALL BE 6mm (MIN) FILLET WELDS AND SHALL BE SEALED UNLESS NOTED OTHERWISE.
- S5. FOR FULL PENETRATION FIELD WELDS, BACKING PLATES SHALL BE USED. TACK WELD BACKING PLATE TO APPROPRIATE MEMBER FOR SHIPMENT.
- S6. FOR FULL PENETRATION SHOP WELDS, BACKING PLATES MAY BE USED OR BACK-UP FILLET WELD MAY BE USED AT FABRICATION OPTION UNLESS NOTED OTHERWISE.
- S7. SLOTTED HOLES ALLOWING 25mm TOTAL HORIZONTAL ADJUSTMENT (12mm EACH SIDE) SHALL BE PROVIDED WHEN ONE OR BOTH ENDS OF A STEEL MEMBER CONNECTS INTO CONCRETE OR MASONRY.
- S8. DRILLED HOLES FOR BOLTED CONNECTIONS SHALL BE 2mm LARGER THAN THE BOLT DIAMETER UNLESS NOTED OTHERWISE.
- S9. HOLES IN STRUCTURAL BASE PLATES SHALL BE 4mm LARGER THAN THE ANCHOR BOLT DIAMETER FOR M20 BOLTS AND SMALLER, AND 6mm LARGER FOR M24 BOLTS AND LARGER.
- S10. EDGE DISTANCE FOR CONNECTIONS SHALL BE IN ACCORDANCE WITH SANS 10162 UNLESS NOTED OTHERWISE.
- S11. OMIT PAINT WITHIN 50mm OF FIELD WELDED CONNECTIONS.
- S12. SHOP SPlicing OF MEMBERS WILL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. APPROVED SPLICES SHALL HAVE A CAPACITY OF 100% OF THE SPLICED MEMBER AND ACCEPTANCE SHALL BE SUBJECT TO THE RESULTS OF NON DESTRUCTIVE TESTS. COST OF SPlicing AND TESTING SHALL BE BORNE BY THE FABRICATOR.
- S13. BURRS AND ROUGH EDGES SHALL BE GROUND PRIOR TO WELDING END PLATES CLEATS, BRACKETS OR PAINTING.
- S14. ALL FIELD WELDS SHALL BE SHOWN THUS:
- S15. HOLD OUT-TO-OUT DIMENSIONS EXACT FOR ALL CONTINUOUS RUNS OF BEAMS TO AVOID AN ACCUMULATIVE ERROR.
- S16. ALL RELEVANT DIMENSIONS SHALL BE CHECKED ON SITE BEFORE MANUFACTURE OF STRUCTURAL STEEL COMMENCES.
- S17. ALL WELDING AND SURFACE PREPARATION SHALL BE DISCUSSED, INSPECTED AND APPROVED BY THE ENGINEER IN CONJUNCTION WITH THE SANS, OR OTHER APPROVED INSPECTION AGENCY.
- S18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL ALL ELEMENTS HAVE BEEN ERRECTED AND FIXED IN POSITION.
- S19. WORKSHOP DETAIL DRAWINGS SHALL BE CHECKED BY THE ENGINEER BEFORE MANUFACTURE OF STRUCTURAL STEEL COMMENCES.
- S20. ALL STEEL TO BE GRADE 350W. ONLY STEEL SECTIONS WITH THE GRADE 350W MARKING SHALL BE ACCEPTED.
- S21. PAINT SPECIFICATION: SEE PROJECT SPECIFICATION WITH FINAL PAINT COLOUR TO ARCHITECT'S SCHEDULES.
- S22. GROUT:
a) NON METALIC, NON SHRINK GROUT, TO BE APPROVED BY ENGINEER BEFORE USE. MINIMUM COMPRESSIVE STRENGTH REQUIRED AT 28 DAYS IS 30 MPa. APPLICATION AS PER APPROVED PRODUCT SPECIFICATIONS.
b) ALL GROUTING UNDER MECHANICAL EQUIPMENT IS TO BE DONE BY OTHERS. GROUTING UNDER STRUCTURAL STEEL PLATES BY MAIN CONTRACTOR.
- S23. HOT-DIP GALVANIZING OF STRUCTURAL STEEL SHALL BE DONE ACCORDING TO THE REQUIREMENTS OF SANS 121 UNLESS NOTED OTHERWISE.
- S24. ALL STRUCTURAL STEEL UNDER GROUND LEVEL TO BE PAINTED WITH 2 LAYERS EPOXY-TAR.
- S25. ALL BOLTS TO BE GRADE 8.8 UNLESS NOTED OTHERWISE.

SPECIFICATION FOR SOILCRETE:

- SC1. SOILCRETE SHALL CONSIST OF AN APPROVED SOIL OR GRAVEL MIXED WITH 5% BY MASS OF PORTLAND CEMENT AND ONLY SUFFICIENT WATER TO GIVE IT A CONSISTENCY THAT WILL PERMIT THE SOILCRETE TO BE PLACED, USING VIBRATORS.
- SC2. THE AGGREGATE USED FOR SOILCRETE SHALL PREFERABLY BE A SANDY MATERIAL BUT MAY CONTAIN LARGER PARTICLES UP TO 38mm AND SHALL HAVE A PLASTICITY INDEX OF LESS THAN 10.
- SC3. DETRIMENTAL PERCENTAGES OF SILT AND CLAY MUST BE AVOIDED AND THE AGGREGATE SHALL BE OBTAINED FROM AN APPROVED SOURCE.
- SC4. THE SOILCRETE SHALL BE MIXED ON SITE USING SUITABLE CONCRETE MIXERS AND THE WATER AND CEMENT CONTENTS SHALL BE CAREFULLY CONTROLLED.
- SC5. SOILCRETE SHALL BE PLACED AND THOROUGHLY COMPACTED BY MEANS OF CONCRETE VIBRATORS SO THAT ALL VOIDS ARE FILLED.

BACKFILLING:

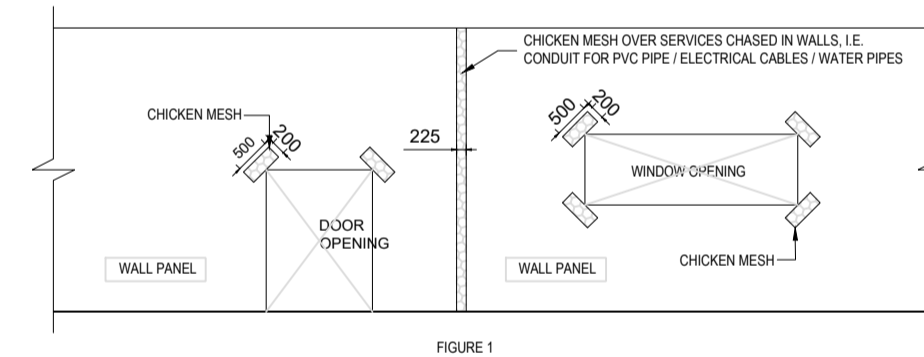
- BF1. ALL BACKFILLING BEHIND RETAINING WALLS, BELOW SURFACE BEDS, UNDER STAIRS ON FILL AND ALL JOCKEY SLABS SHALL BE G7 MATERIAL COMPACTED IN 150mm THICK LAYERS TO 93% MOD AASHTO DENSITY, UNLESS OTHERWISE SHOWN.
- BF2. ALL MATERIAL USED FOR BACKFILLING IS TO BE TESTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER, UNLESS OTHERWISE SHOWN.
- BF3. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE DRY DENSITY TEST PER 100 sqm WITH THE MINIMUM NUMBER OF TESTS PER AREA 3. DRY DENSITY TEST SHALL BE DONE AT A MINIMUM OF EVERY 900mm OF BACKFILLING, UNLESS OTHERWISE SHOWN.

MASONRY:

- B1. ALL BRICK WALLS TO BE OF SOLID HARD BURNED CLAY BRICKS WITH A COMPRESSIVE STRENGTH OF NOT LESS THAN 14MPa LAID ON A CLASS II MORTAR WITH A 28 DAY COMPRESSIVE STRENGTH OF 7MPa AS SPECIFIED IN SANS 10164 PART 1-1987 (CODE OF PRACTICE FOR THE STRUCTURAL USE OF MASONRY). REFER TO TYPICAL DRAWINGS FOR DETAILS OF LOAD BEARING WALLS.
- B2. BRICKFORCE: MINIMUM DIAMETER OF BRICKFORCE = 2,8mm
YIELD STRENGTH = 485 MPa
LAP LENGTH = 400mm MIN
- B3. BRICKFORCE TO BE PLACED IN THE FIRST FIVE LAYERS OF BRICKWORK ON FOOTINGS AND FLOOR SLABS, THEREAFTER TO BE PLACED IN EVERY 4th LAYER IN ALL BRICK WALLS. PLACE BRICKFORCE IN THE FIRST 5 LAYERS OF BRICKWORK OVER ALL WINDOW AND DOOR OPENINGS. BRICKFORCE TO BE PROVIDED IN TOP FIVE LAYERS OF BRICKWORK BELOW SLAB SOFFITS FOR ALL LOAD BEARING BRICKWALLS AND WALLS SUPPORTING ROOF TRUSSES.
- B4. ALL BRICKWORK SHOWN IS LOAD BEARING BRICKWORK UNLESS OTHERWISE SHOWN.
- B5. PLACE 20mm SOFTBOARD ON TOP OF ALL NON-LOAD BEARING WALLS.
- B6. 2 LAYERS OF DPC SLIP SHEET TO BE PLACED ON TOP OF ALL LOAD BEARING BRICKWALLS. TOP OF BRICKWORK TO BE LEVEL AND SMOOTH.
- B7. LOAD BEARING BRICK WALLS ARE SHOWN AS FOLLOWS:



- B8. ALL INTERNAL AND EXTERNAL BRICK WALLS ARE SUPPORTED BY STRIP FOUNDATION UNLESS OTHERWISE SHOWN.
- B9. ALL WALL TIES TO BE GALVANISED TO SANS - 28 - 1986. GALVANISED COATING OF MILD STEEL TO HAVE A MINIMUM MASS OF 750 g/m² OF ZINC.
- B10. PROVIDE 10mm JOINT IN ALL BRICKWORK AT MAXIMUM SPACING AS SHOWN ON TYPICAL BRICKWORK DETAILS DRAWINGS, BUT NOT LESS THAN 8m INTERVALS.
- B11. ALL LINTOLS TO BE PROVIDED STRICTLY IN ACCORDANCE WITH THE MANUFACTURES SPECIFICATIONS.
- B12. NO BRICKWORK TO COMMENCE ON PROPPED SLABS.
- B13. PLASTER WORK TO WALLS AT ALL DOORS AND WINDOW OPENINGS TO BE REINFORCED WITH CHICKEN MESH AS SHOWN BELOW:



STRUCTURAL TIMBER:

- T1. PREFABRICATED TIMBER ROOF TRUSSES AND PURLINS ARE TO BE DESIGNED ACCORDING TO THE SPECIFICATION, AND SUPPLIED BY A MITEK OR SIMILAR APPROVED SUPPLIER.
- T2. TIMBER ROOF TRUSSES ARE TO BE DESIGNED IN ACCORDANCE WITH SANS 10163 PART 1 - 2003 (CODE OF PRACTICE FOR THE STRUCTURAL USE OF TIMBER). LOADS ARE TO COMPLY WITH SANS 10160 - 2010 (CODE OF PRACTICE FOR THE BASIS OF STRUCTURAL DESIGN AND ACTIONS FOR BUILDINGS AND INDUSTRIAL STRUCTURES).
- T3. WORKSHOP DETAIL DRAWINGS SHALL BE CHECKED BY THE ENGINEER BEFORE COMMENCING WITH MANUFACTURING OF TIMBER ROOF TRUSSES.
- T4. FOR THE DESIGN OF TIMBER ROOF TRUSSES REFER ALSO TO AURECON SPECIFICATION FOR TIMBER STRUCTURES.
- T5. ALL TRUSSES TO BE FABRICATED IN A FACTORY BY A TIMBER TRUSS FABRICATOR WHO HAS BEEN AWARDED A "CERTIFICATE OF OF COMPETENCE" BY THE INSTITUTE FOR TIMBER CONSTRUCTION.
- T6. LOADS ON TIMBER ROOF STRUCTURE:
ROOF CLADDING: ALLOWANCE AS FOR SPECIFIC CLADDING REQUIREMENT CEILINGS: 25kg/m²
DUCTS & CABLES: AS PER ELECTRICAL ENGINEERS DRAWINGS
WIND LOADING: 100 YEAR RETURN PERIOD
TERRAIN CATEGORY 2
BUILDING CLASS B
HEIGHT OF ROOF ABOVE GROUND LEVEL 3,5m
HEIGHT ABOVE SEA LEVEL 1440m

Drawing signed for approval held at Engineering Aces offices

DRAWN:	NP KHUMALO	TENDER DRAWINGS	
DESIGNED:	L SEROBE		DATE
CHECKED:	OS MOTHIBI	SS MNTAMBO Pr Tech Eng 2025302376	
APPROVED:	SS MNTAMBO	SCALE: AS SHOWN	

AMMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	19/03/2026	TENDER DRAWING	SS MNTAMBO

CONSULTANT

see the RESULT

CLIENT

MOHOKARE LOCAL MUNICIPALITY

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ROUXVILLE/ROLELEATHUNYA CONSTRUCTION OF SPORTS GROUND_PHASE2

GENERAL NOTES

DRAWING NO.	REVISION
1109-STR-DRG-100	T0

