CONSULTING ENGINEERS (PTY) LTD
Reg. No. 9710445/07

27 Veld Street, Glen Marais, 1619
PO Box 3346, Kempton Park, 1620
T: 011 391 0357 C: 082 567 5681
Email: jan@bvn.co.za

**Anchor 6 (Pty)Ltd** **15-Nov-24**
**Nr. 3 Nightjar Circle**
**Sable Hill Waterfront Estates**
**KAMEELFONTEIN**

**ATTENTION MR. KABOLS LE RICHE**

**RE: DEVELOPMENT OF SHEEP FEEDLOT ON VROLYKHEID 1/177**

## 1. APPOINTMENT

We hereby confirm our appointment for the design of a sheep feedlot on the farm. Vrolykheid 1/177 in the Western Cape.

LOCATION: Vrolykheid 1/177 LON 22° 37' 16,8" E
LAT 33° 21' 22,6" S

## 2. RESPONSIBILITIES PENS

(i) Layout of sheep pens according to geometry of farm and design criteria.
(ii) Placing of pens in relation to contours, erf boundaries, river, roads and other existing infra structure on farm.
(iii) Design of earthworks and soil modification.
(iv) Hydraulic design of runoff retention.
(v) Design of retention dams with dewatering mechanisms.
(vi) Polution control prevention measures to be applied to feedlot.
(v) Producing a drawing that contains above and other design criteria specification. See attached Drawing No K 2554/C1 -00B

## 3. DESIGN CRITERIA

3.1 Polution Control

The Polution control measures used in the design were based on an intensive ground water quality report issued by Environmentek of C S I R

(i) Slopes

The slopes across the feedlot pens, manure collecting passages and storage areas as well as the drainage channels allowed for optimum, efficient flow during periods of high rain fall and prevent ponding and or erosion.
Slope in pens 2%
Slope in drainage channels 1,85%.

(ii) Retention Dams

The capacity of the retention dams were calculated for the worst scenario from figures obtained from the S.A. Weather Burau and other wheather stations close to this particular location. We have added 40% to these figures to minimize the risk for very high intensity showers.
Return period 1:50 years.
Max intensity in mm per hour ie 100mm/h

The Rasional Method was used for these calculations. A tipical sheet for one of the pen position on the farm ie position C is attached.

The retention/detension ponds are left to evaporate and over flow of these will be captured via constructed overflow systems in an irrigation dam. The water from this dam will be used to irrigate the cultivated fields of the farm. No effluent run off from the feed lot into "neighbour' propertie is allowed.

(iii) Sepage penetration in ground water.

The surface of the areas subjeded to manure will be treated by means of mechanical cement stabilization to prevent sepage ie

3% cement Stabilization in top 150 mm layer.

(iv) Stormwater control

Stormwater arising on the land abutting the pens and manure storage areas will be channelled away to prevent "clean" stormwater to be contaminated.

## 4. BOUNDARIES, BUILDING LINES AND SERVITUDES

Pens were placed to comply with:

(i) Building line to boundary 30m

(ii) Pen to top of river embankment 32m

(iii) Escom line servitudes if applicable

## 5. MANURE HANDLING

(i) Volumes/weight

The volume of anticipated manure production was calculated at 0.6 kg per lamp per day and a density of 1 ton per $m^3$

(ii) Storage Areas

The size of areas were calculated to accommodate the anticipated production accepting that the pons will be cleaned once a year and the stored manure will be spread on the cultivated ± 38 ha of fields of the said farm as fertilizer.

## 6. SIZES OF FACILITIES

The proposed feedlot is design to accommodate 6 000 lambs.

(i) Density = 1,5 $m^2$ per lamb

(ii) Area

| | | | |
|---|---|---|---|
| Position | A | pen area | 3 800 $m^2$ |
| Position | B | pen area | 3 150 $m^2$ |
| Position | C | Pen area | 3 150 $m^2$ |

(iii) Handeling and shearing 100 $m^2$

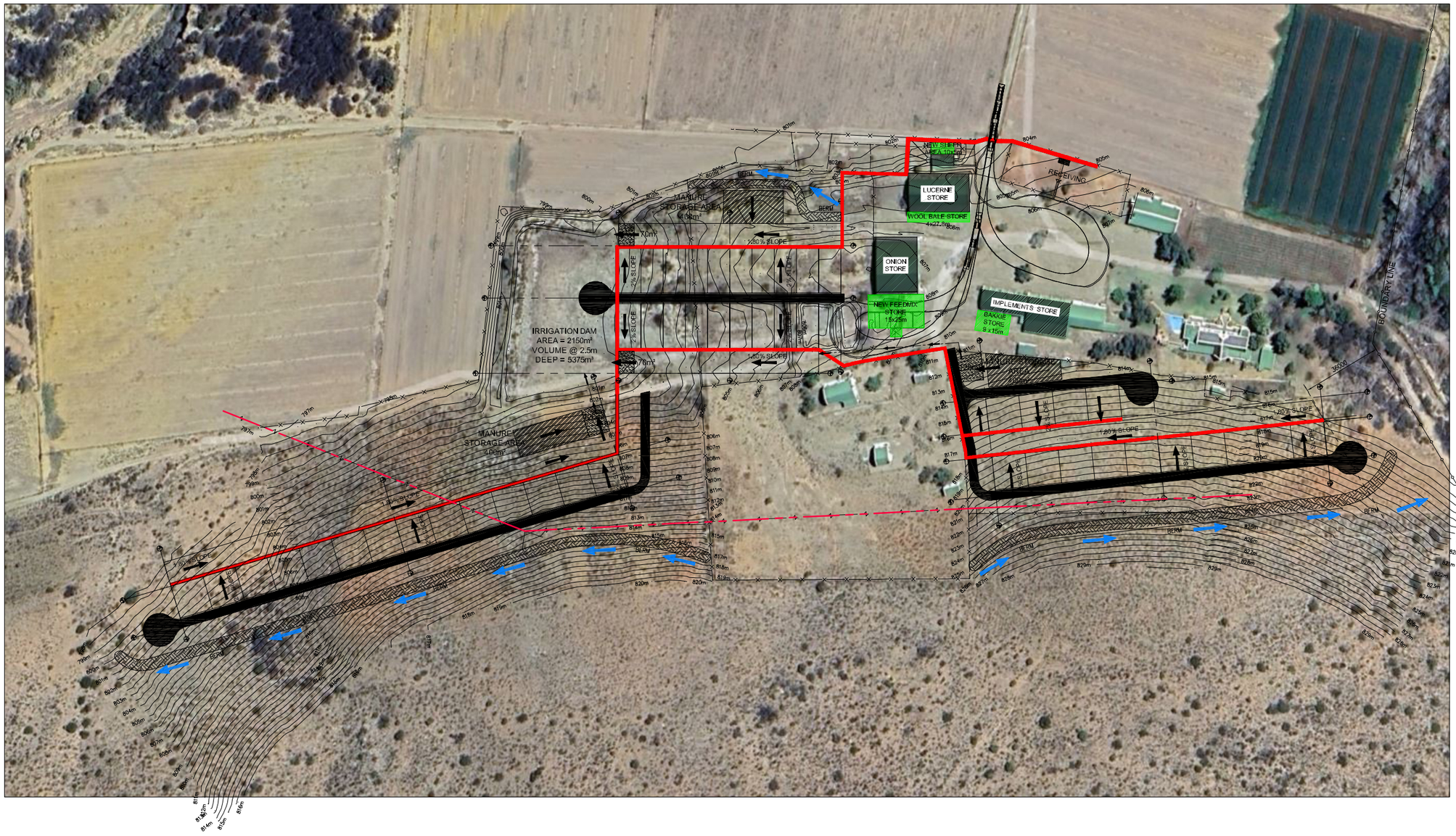
(iv) Feed process and storage 400 $m^2$

## 7. CONCLUSION

We trust that this report will be in accordance with what is required by the authorities responsible for the granting of permission for the development and operation of the proposed feedlot.

Regards

**J J B VAN NIEKERK Pr Eng 760393**




# NOTES

1. PENS – POSITION A = 4028m²
   POSITION B = 3400m²
   POSITION C = 3403m²
   TOTAL = 16206m²
2. MANURE PASSAGE – POSITION A = 1640m²
   POSITION B = 2090m²
   POSITION C = 1474m²
   TOTAL = 5204m²
3. MANURE STORAGE AREA – POSITION A = 400m²
   POSITION B = 400m²
   POSITION C = 400m²
   TOTAL = 1200m²
4. RETENTION PONDS – POSITION A = 2x70 = 140m²
   POSITION B = 120m²
   POSITION C = 120m²
   TOTAL = 380m²
5. IRRIGATION DAM – POSITION A = 2150m²
6. IRRIGATION FIELDS – 38ha

NEW PROPOSED BUILDINGS
RETENTION PONDS
MANURE STORAGE AREA
STORM WATER BERM
SHEEP RACE
CLEAN WATER RUN-OFF (STORM WATER)
EXISTING ESKOM LINE

FOR INFORMATION ONLY

| NO. | REVISIONS | DRAWN | DATE |
|---|---|---|---|
| L | POSITION C UPDATED | SR | 16/11/24 |
| K | DRAWING UPDATED POSITION C RACE'S | SR | 23/10/24 |
| J | DRAWING UPDATED | SR | 21/10/24 |
| I | NOTES UPDATED | SR | 13/10/24 |
| H | SITE UPDATED | SR | 06/10/24 |
| G | SECTION SADDED | SR | 29/09/24 |
| F | SITE LAYOUT UPDATED | SR | 15/09/24 |
| E | SITE LAYOUT UPDATED | SR | 03/09/24 |
| D | DRAWING UPDATED | SR | 25/08/24 |
| C | SITE LAYOUT CHANGED | SR | 25/08/24 |
| B | VEHICLE TRACKING ADDED | SR | 20/08/24 |
| A | ISSUED FOR INFORMATION | SR | 11/08/24 |

CONSULTANT:
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BURMEISTER VAN NIEKERK
27 Veld Street, Glen Marias
P.O. Box 3346
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SOUTH AFRICA
Tel: +27 82 567 5681
e-mail: jon@bvn.co.za

| | | | | | | |
|---|---|---|---|---|---|---|
| DESIGNED | JvN/SR | 08/24 | DRAWN | | SR | 08/24 |
| CHECKED | | | APPROVED PROJECT CO-ORDINATOR | | | |
| APPROVED: PR. ENGINEER | | | | | | |
| APPROVED: CLIENT | | | | | | |

CLIENT:
VROLYKHEID 177
WESTERN CAPE
TEL: +27 (0)

DISCIPLINE:
CIVIL

PROJECT TITLE:
VROLYKHEID 177
SHEEP FEED LOT

DRAWING TITLE:
SITE LAYOUT
OPTION B

SCALE: 1:1000 | A1

CONSULTANT DRAWING NO.: K2594/C1-00-B | REV. L

CLIENT DRAWING NO.: | REV.




ON ORIGINAL

15 20 25 30 40 50MM

NOTES:

GENERAL:
1. NO DIMENSIONS TO BE SCALED.
ALL CONCRETE TO BE 25MPa/19mm UNLESS SPECIFIED OTHERWISE
2. CONCRETE TO BE CURED FOR A MINIMUM OF 28 DAYS BY AN APROVED METHOD.
3. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTS DRAWING.
4. ALL SETTING OUT DIMENSIONS AND LEVELS TO BE CHECKED ON SITE BY CONTRACTOR.
5. ABBREVIATIONS: B - BOTTOM
T - TOP FACE
STG - STAGGERED
ALT - ALTERNATE
NF - NEAR FACE
FF - FAR FACE
BF - BOTH FACE
HB - HOLLOW BLOCKS
6. CONTRACTOR IS TO PROVIDE ALL BLOCKS AND STOOLS TO ENSURE CORRECT POSITIONING OF TOP AND BOTTOM REINFORCING DURING POURING.
7. TWO LAYERS OF MALTHOID TO BE PLACED ON TOP OF BRICKWORK BEFORE SLABS AND BEAMS ARE CAST TO FORM HORIZONTAL JOINT.
DEEP "Y" IN PLASTER AT CONCRETE-BRICKWORK INTERFACE.
8. WATERPROOFING TO SPECIALIST DETAIL ( OTHERS) . WATERPROFING TO BE COMPLETED BY SPECIALIST.
9. USE BRICKFORCE OF LADDER TYPE COMPRISING MAIN WIRES OF NOT LESS THAN 2.8mm DIA. BRICKFORCE TO BE MANUFACTURED FROM PREGALVANISED WIRE ( CLASS A GALVANISING IN ACCORDANCE WITH SABS 933)
10. INFILL CONCRETE IN REINFORCED CORES AND CAVITIES ( 13mm STONE) - 20MPa
11. ALL WORK TO BE DONE TO THE RELEVANT SABS CODES WITH SPECIAL REFERENCE TO SABS 1200 & NHBRC REQUIREMENTS MIN
12.ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETEING.
13.CONTRACTOR TO PROVIDE PROOF OF CONCRETE STRENGTH.
14. USE CLASS 1 MORTAR ON STRUCTURAL LOAD BEARING BRICKWORK ELSE CLASS 2.
15. PROPPING OF SLAB TO BE NOT MORE THAN 1500c/c IN ONE DIRECTION AND 1000c/c IN THE OPPOSITE DIRECTION.
16. BRICKFORCE EVERY COURSE ABOVE LINTOL HEIGHT TO WALL PLATE
17. USE BUTTERFLY WALL TIES AT 600c/c HORZ. TO LAST THREE COURSES OF LOAD-BEARING BRICKWORK BELOW SLAB OR ROOF.
18. ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS AND SPECIFICATIONS AS SET OUT BY THE NATIONAL HOME BUILDERS REGISTRATION COUNCIL
19. ENGINEER NOT RESPONSIBLE FOR CHECKING OF LEVELS OR SETTING OUT.

SLAB:
1. SHUTTER WORK TO REMAIN IN PLACE FOR 21 DAYS ( MIN)
2. NO BRICKWORK ON SLAB OR BEAMS PRIOR TO PROPS BEING REMOVED

FOUNDATIONS:
1. CONCRETE IN FOUNDATION TO BE 25 MPa AFTER 28 DAYS - CONCRETE GRADE 25/19.
2. BACKFILLING BEHIND RETAINING WALLS AND UNDER SURFACE BED TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK TO 93% MOD. AASHTO. ( USE G5 ( PI<12) OR SIMILAR
3. CONCRETE COVER TO FOUNDATIONS - 50mm.
4. BRICKFORCE EVERY THIRD COURSE IN FOUNDATION BRICKWORK.
5. SITE DRAINAGE: SITE TO BE DRAINED AS TO ENSURE THAT WATER CANNOT POND AGAINST OR NEAR THE STRUCTURE. THE SURFACE OF THE GROUND IMMEDIATELY ADJACENT TO THE BUILDING TO FALL 75 mm OVER THE FIRST 1.5m , ANY PAVING SHALL BE SIMILARLY SLOPED.
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CLIENT

MR. K. Le Riche

TUINIQUA CONSULTING ENGINEERS CC
TEL 083 271 8792

Approved By

O. Huistra

| Prepared By | Checked By | Reviewed By |
|---|---|---|
| OH | OH | OH |

Project

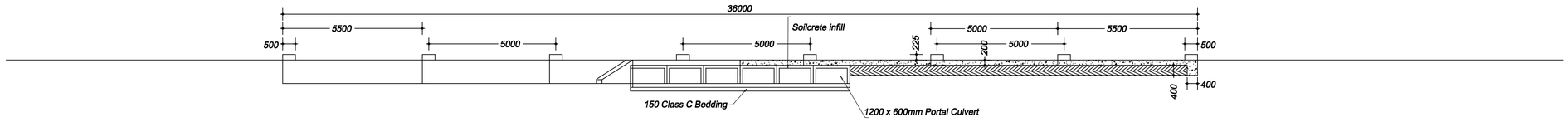
PROPOSED NEW
LOW WATER CROSSING
KLAARSTROOM

Description

LAYOUT PLAN AND SECTIONS

| Scale | Date |
|---|---|
| AS SHOWN | FEB 2025 |

| Project No | Drg. No | Rev |
|---|---|---|
| TO - 950 | 02 | |

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## SECTION
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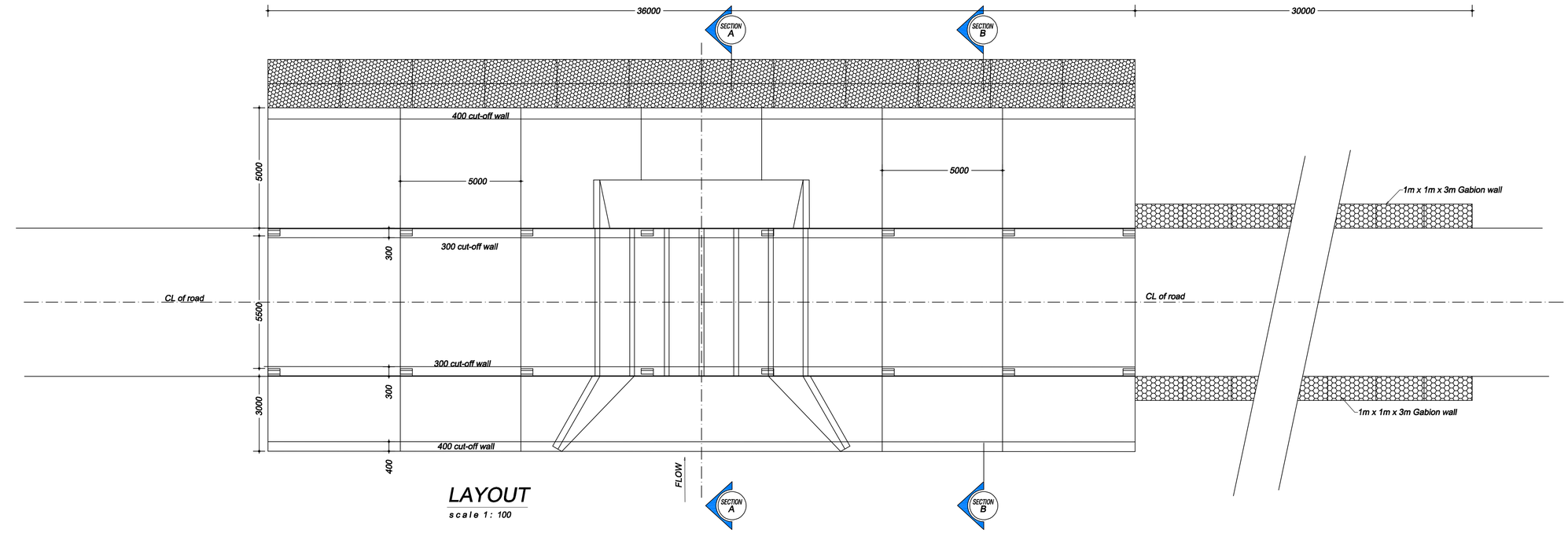


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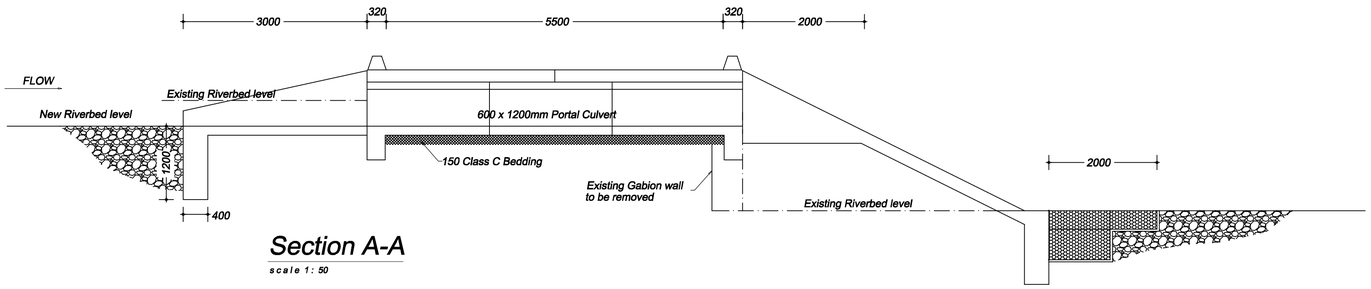


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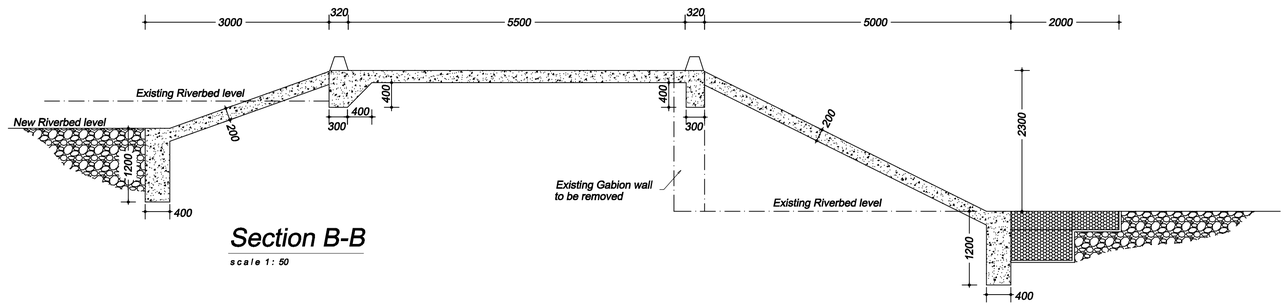


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Approved By

| Prepared By | Checked By | Reviewed By |
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Project

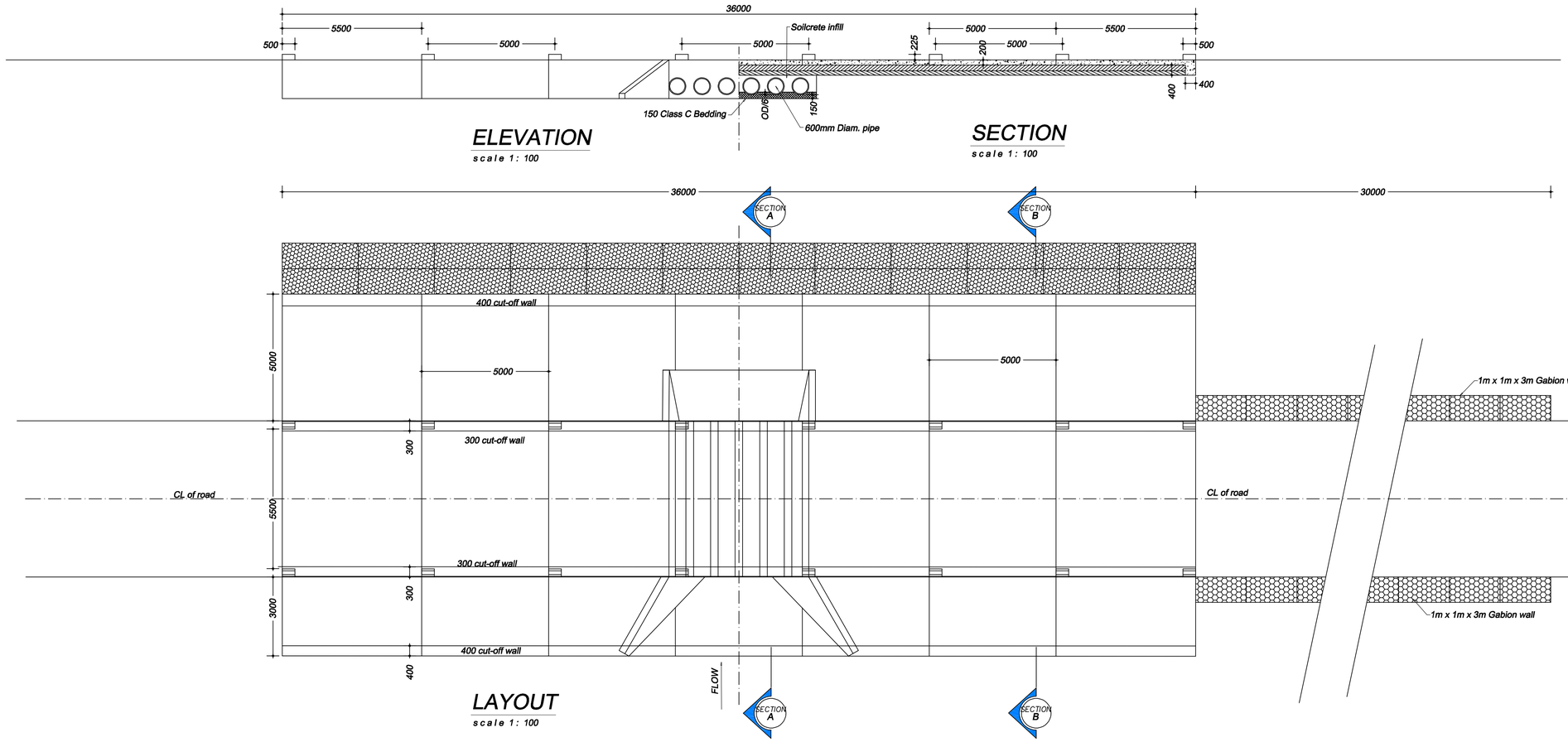
PROPOSED NEW LOW WATER CROSSING KLAARSTROOM

Description

LAYOUT PLAN AND SECTIONS

| Scale | Date |
|---|---|
| AS SHOWN | FEB 2025 |

| Project No | Drg. No | Rev |
|---|---|---|
| TO - 950 | 01 | |

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## SECTION
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## LAYOUT
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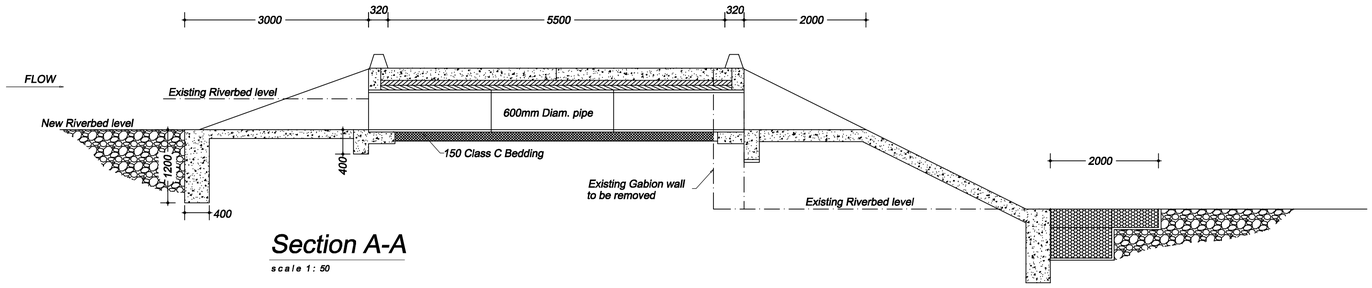


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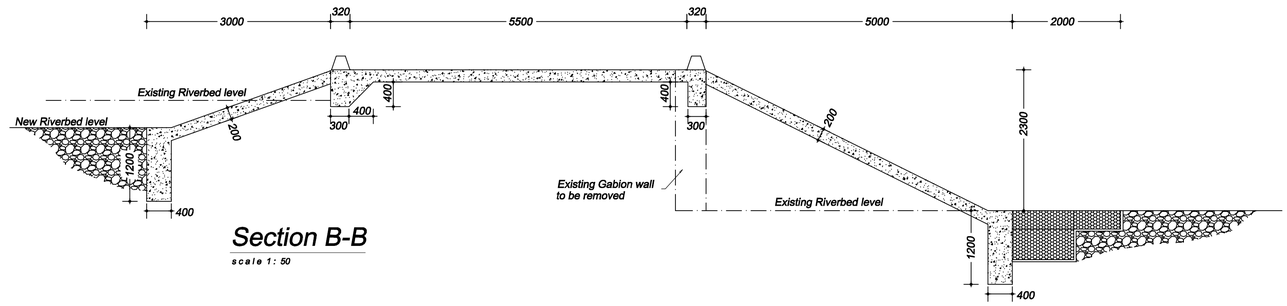


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