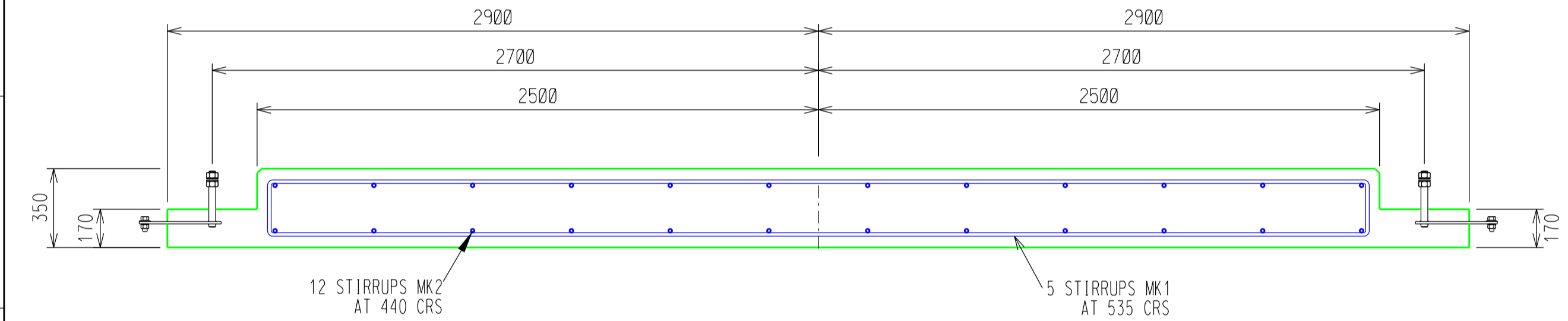
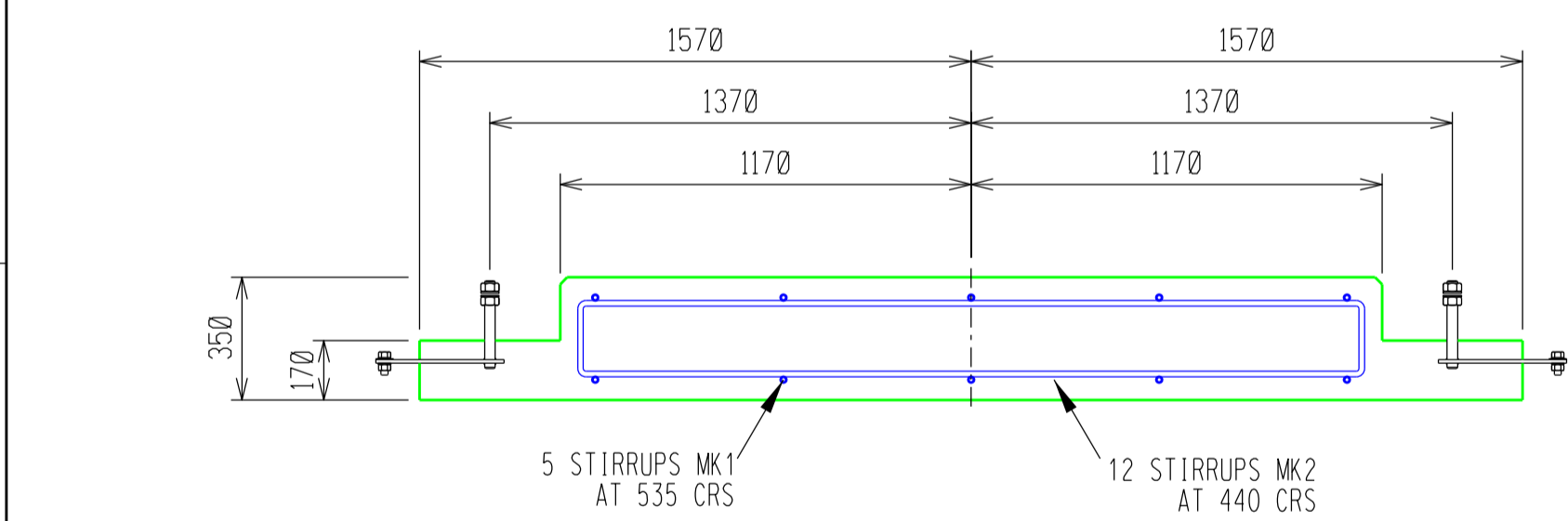


PLAN VIEW



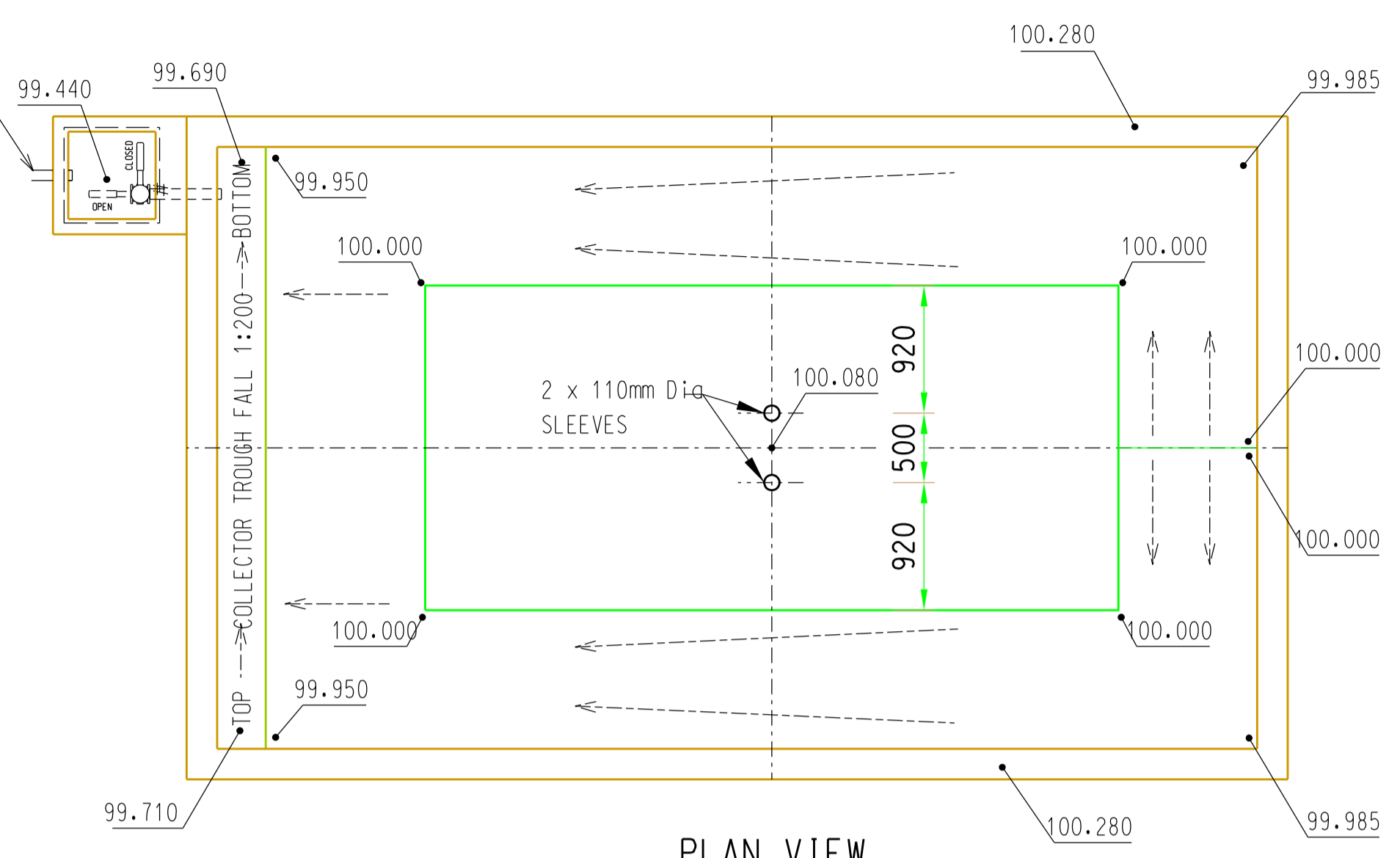
PLINTH REINFORCING SECTION A-A  
SCALE 1:25



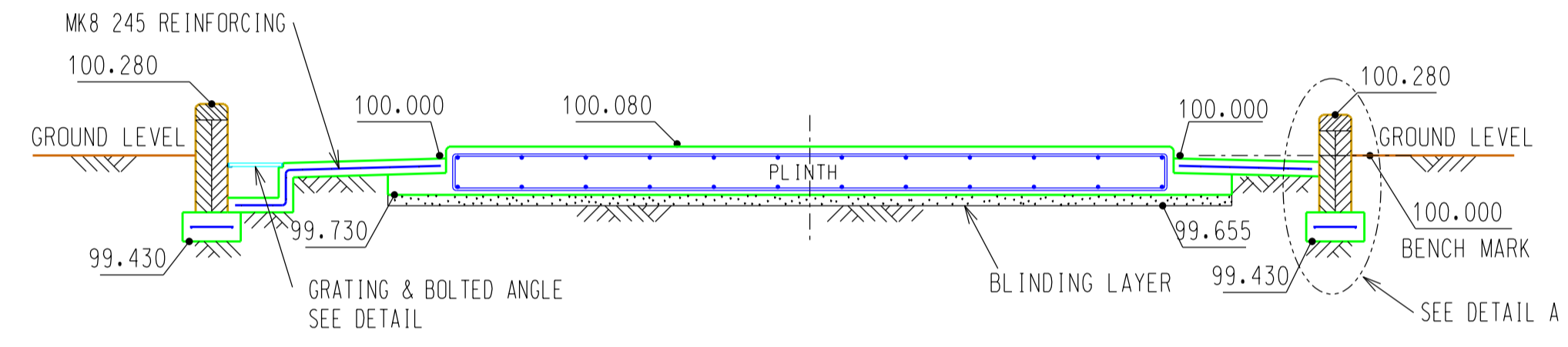
PLINTH REINFORCING SECTION B-B  
SCALE 1:25

PLINTH & SLIPWAY REINFORCEMENT SCHEDULE							
MK	TYPE & SIZE	TOTAL PER ITEM	CUTTING LENGTH	TOTAL LENGTH (m)	WEIGHT kg	SHAPE CODE	BENDING REMARKS
1	Y12	5	10275	51.375	57.85	60	4900 x 250
2	Y12	12	4925	59.1	66.55	60	2240 x 225

SUMP OUTLET: uPVC PIPE CLASS 6 WITH AN OUTSIDE DIA OF 75mm WITH A MIN. FALL OF 1 : 200 TO INVERT LEVEL.

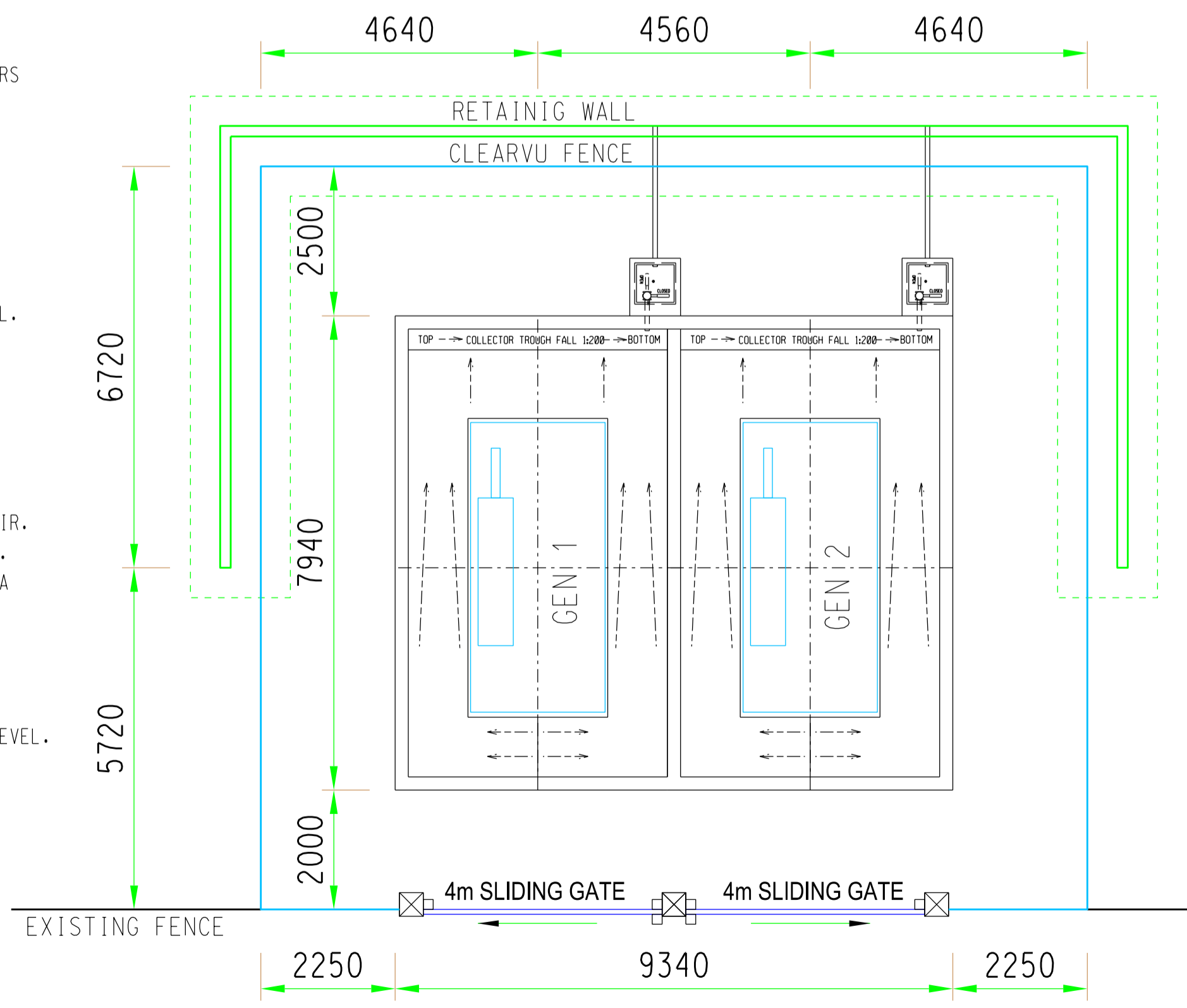


PLAN VIEW LEVELS



SECTION A-A LEVELS

- CONCRETE**
- 1 CONCRETE WORK TO BE IN ACCORDANCE WITH SANS 1200.
  - 2 CONCRETE STRENGTH AT 28 DAYS = 25MPa.
  - 3 CONCRETE STRENGTH FOR BLINDING LAYER AT 28 DAYS = 15MPa.
  - 4 NO CONCRETE TO BE POURED WHERE THE AIR TEMPERATURE WILL DROP BELOW 4 DEG CELSIUS IN 8 HOURS AFTER POURING, UNLESS A SUITABLE APPROVED ADDITIVE IS ADDED TO THE CONCRETE MIXES.
- COMPACTION**
- 1 COMPACTION AT THE BOTTOM OF PLINTH, SLIPWAY, BUND WALL AND FLOOR SHALL BE COMPACTED TO 93% MOD. AASHTO.
- PLINTH AND SLIPWAY**
- 1 FOR HEIGHT OF PLINTH & SLIPWAY SEE (FOUNDATION LAYOUT) FOR ROAD LEVEL.
  - 2 TOP EDGES OF PLINTH & SLIPWAY TO HAVE 25-40mm CHAMFER.
  - 3 OFF SHUTTER FINISH TO UPPER SIDES OF PLINTH & SLIPWAY TO EXTEND TO 100mm BELOW FLOOR LEVEL.
  - 4 ONLY STEEL SHUTTERING AND TEMPLATE MAY BE USED.
- REINFORCING**
- 1 REINFORCING TO HAVE A MIN CONCRETE COVER OF 50mm.
  - 2 ALL REINFORCING BARS TO BE MEASURED & BENT IN ACCORDANCE TO SANS 1478.
  - 3 ALL REINFORCING SPICED TO HAVE A LAPPED LENGTH OF 42 x DIAMETER OF REINFORCING BAR.
- OIL CONTAINMENT AREA**
- 1 BUND WALLS MUST BE CONSTRUCTED FROM FACE BRICKS COMPLYING TO SANS 227 AND APPROVED BY CSIR.
  - 2 ALL JOINTING MUST BE 10mm WIDE, RAKED AND CONSTRUCTED WITH A 1:4 (CEMENT:SAND) MORTAR MIX.
  - 3 CONSTRUCTION / EXPANSION JOINTS TO BE SEALED WITH AN APPROVED OIL RESISTANT SEALANT WITH A MINIMUM 1hr FIRE RATING (eg SIKAFLEX-PRO 2hp IS RECOMMENDED OR SIMILAR APPROVED) BY CSIR.
  - 4 BRICK FORCE TO BE USED ON EVERY 3rd LAYER OF BRICKS IN BUND WALLS.
  - 5 FLOOR TO A MINIMUM FALL OF 1:200.
- DRAINAGE (WATER ONLY)**
- 1 {75 D.D UPVC CLASS 6 PIPE TO BE USED WITH A FALL OF 1:200 AND TO BE EXTENDED TO INVERT LEVEL.
  - 2 AN OUTLET SLAB IS TO BE INSTALLED AT THE END OF THE PIPE.
- LEVELS**
- 1 LEVELS AS INDICATED. BENCH MARK 100.000 TO BE TOP OF ROAD WEARING COARSE.
- CABLES**
- 1 CABLE EXITS POSITION TO BE 80mm ABOVE FLOOR LEVEL.
  - 2 EXITS TO BE CHALKED AFTER INSTALLATION OF CABLES.
  - 3 POSITION OF EXITS TO BE DETERMINED ON SITE.
- EARTHING**
- 1 # FLAT COPPER TO BE 500mm BELOW CONCRETE FLOOR AND EXTENDED TO MAIN EARTH GRID.
  - 2 NON OXIDE PASTES MUST BE USED ON ALL EARTH CONNECTIONS TO H.D. BOLTS.
  - 3 ALL EARTHING MUST CONFORM TO EARTHING STANDARDS OR OTHERWISE STATED.
- BOLTS**
- 1 BOLTS, NUTS & WASHERS TO BE IN ACCORDANCE WITH SANS 1700.
  - 2 EARTHING BOLTS AND NUTS TO PROTRUDE 170mm ABOVE FINISHED PLINTH STEP. (SEE DETAIL DRAWING DETAIL B)



GENERATOR 1 & 2 SITE LAYOUT

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FOR APPROVAL

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE
A	ISSUED FOR APPROVAL				15/02/2022

PROJECT MANAGER	LEAD ENGINEER	MECH ENGINEER	MINING ENGINEER

APPROVED BY PRENG / PR TECH	CLIENT APPROVAL
NAME: FP. PIETERSE SIGNATURE: PR ENG: 270358 DATE:	NAME: SIGNATURE: DESIGNATION: DATE:

ASSET OWNER:

DESIGN ENGINEER:

3 LILIEBLAU STREET PO BOX 1055 NELSPRUIT 1209

PROJECT:  
**CSIR BUILDING 9**

TITLE:  
**1000kVA SILENT GENERATOR PLINTH DETAIL AND LAYOUT**

Scale: 1:20	Project Number:
Drawn By: W CALITZ	Checked By: V SAMBOKWE
Date: 15-02-2022	Authorized By:

PLP Drawing Number:	Rev: 0
Client Drawing Number:	