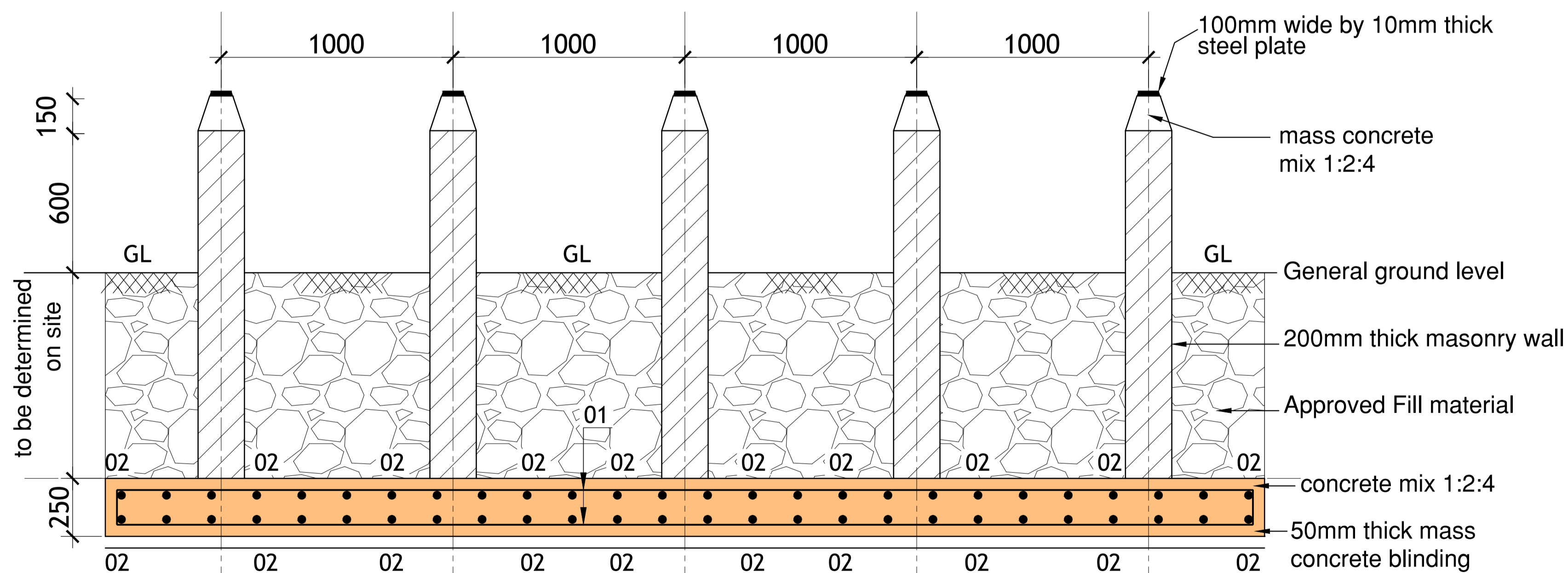


**LOW LEVEL WATER TANK FOUNDATION LAYOUT
PLAN (Scale 1:25) (TANK SIZE 4.0x4.0x3.0m) - 1No.**

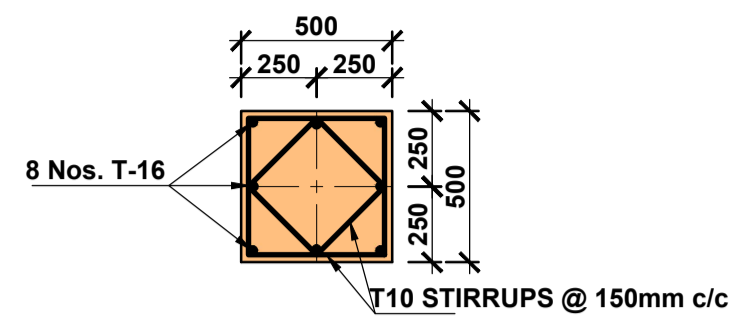


LOW LEVEL WATER TANK SECTION X---X (Scale 1:25)

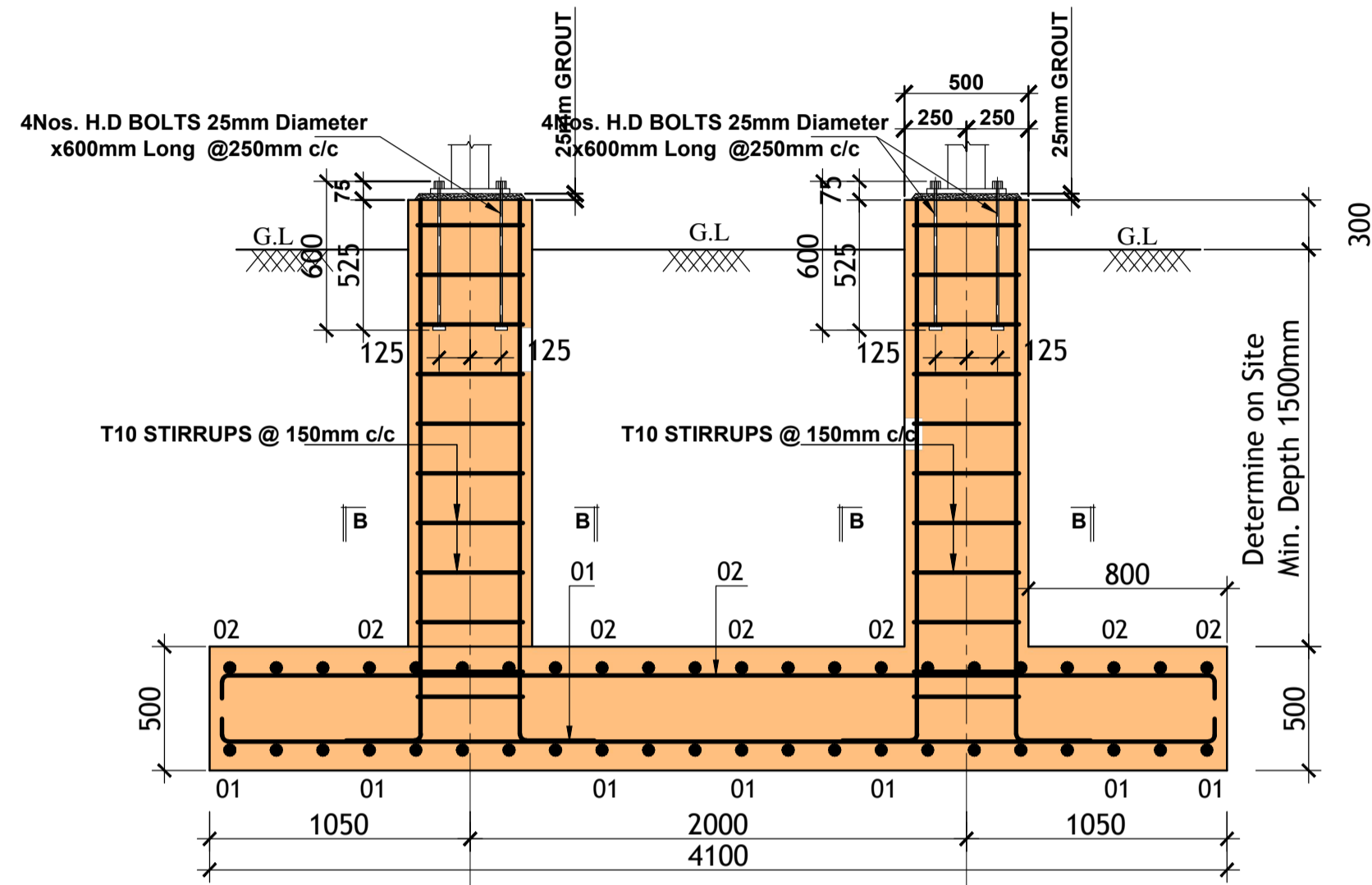
NOTES

- [1] All Structural concrete to be class 20/20
- [2] Foundation depth to be determined on site
- [3] Excavations to be inspected before blinding is laid
- [4] Damp proof course (DPC) to be laid under all walls
- [5] Hardcore to be hand packed and Compacted to Engineer's satisfaction.
- [6] All reinforcements Must be inspected by Structural Engineer before casting concrete.
- [7] Strip foundation to Structural Engineers specs
- [8] This drawing to be read in conjunction with any relevant Architectural, Civil, Structural or any other drawings
- [9] Concrete cover to reinforcement steel to be as follows:
 - [a] Foundation = 50mm
 - [b] Columns = 40mm
 - [c] Beams = 25mm
 - [d] Slabs = 20mm
- [10] High Yield Ribbed Bars to KS:ISO 6935-2 are denoted "T"
- [11] Mild steel reinforcement bars to BS 4449 are denoted "R"
- [12] Any errors, discrepancies or omissions are to be reported to the Engineer immediately for correction before work is undertaken
- [13] Assumed bearing Capacity=80KN/M2
- [14] The Contractor must confirm dimensions on site before commencing of any work
- [15] Minimum crushing strength of masonry stones or building blocks to be 7N/mm2
- [16] All black cotton soil shall be removed during excavation of foundation.
- [17] Minimum lap length for all reinforcement bars shall be 50 x bar diameter

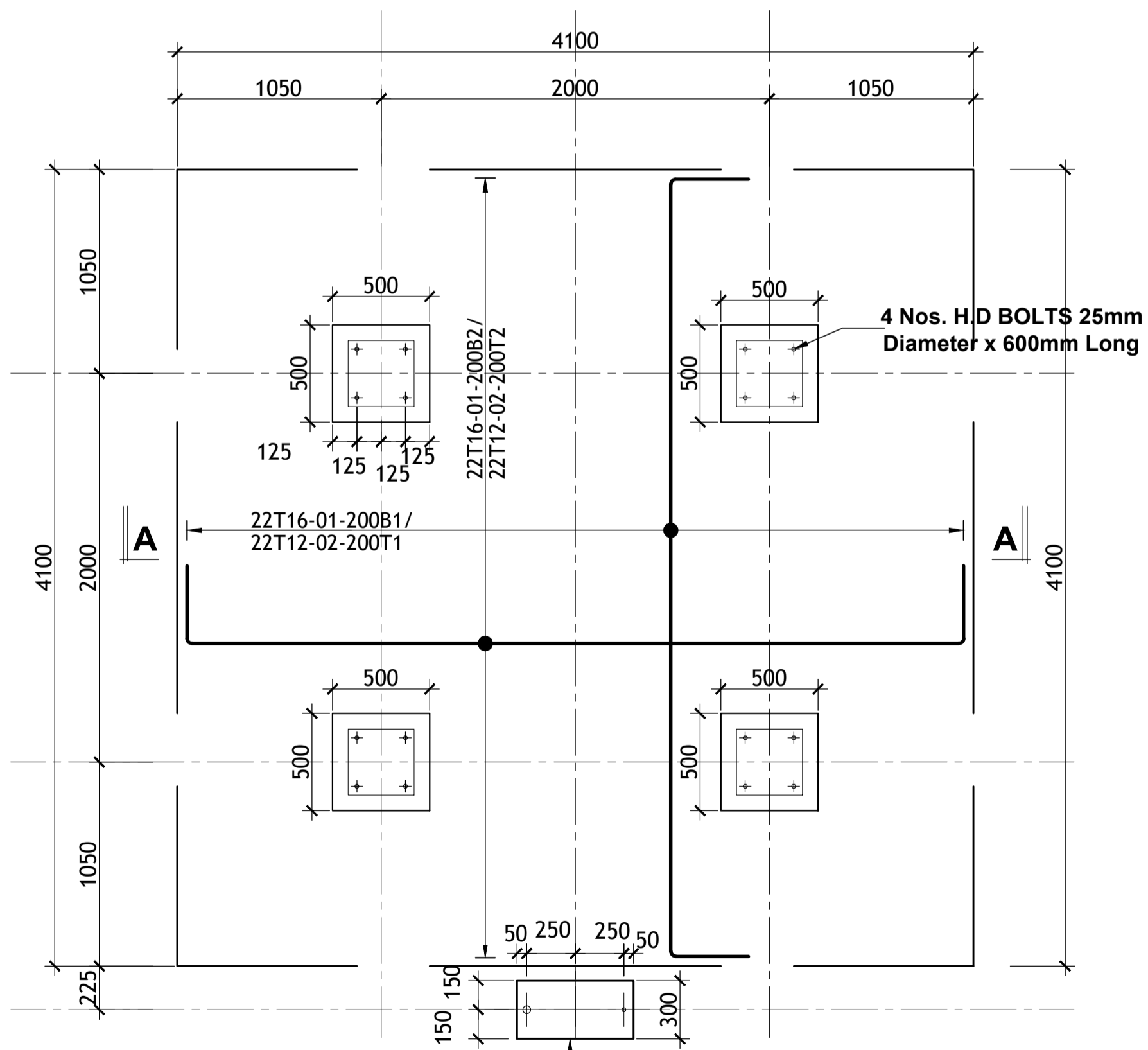
ISSUES			
DATE	TO	APPLICATION	TO
REVISIONS			
No.	DATE	BY	DESCRIPTIONS
REFERENCE DRAWINGS			
No.	DATE	DESCRIPTIONS	C.S. ENG.
CLIENT		JOB No.	
KENYA MEDICAL RESEARCH INSTITUTE (KEMRI)			
PROJECT TITLE			
PROPOSED CONSTRUCTION OF LIAISON OFFICE AT KEMRI KIRINYAGA STATION.			
DRAWING TITLE			
LOW LEVEL WATER TANK STRUCTURAL DETAILS			
C1/Sb			
M.O.T./P.W. H. & UD	DRG No.	STR 01	
	FILE No.		
SCALE(S)		FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING	
1:50, 1:25, 1:20.			
APPROVED BY			
ENG. H. J. N. Nyaanga CHIEF ENGINEER (STRUCTURAL)			
DESIGN/DRAWN	NAME	SIGN	DATE
CHECKED BY:	K. T. Mutai		
	Eng. G. S. Otipa		
MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF PUBLIC WORKS STRUCTURAL DEPARTMENT			



SECTION B-B (Scale 1:25)

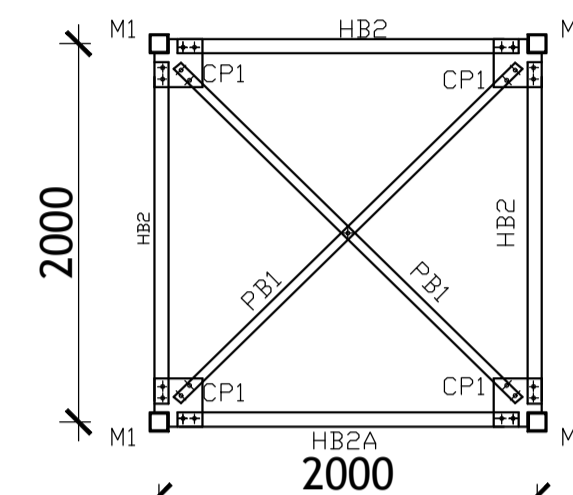


HIGH LEVEL WATER TANK SECTION A---A (Scale 1:25).



300x600x300mm DEEP CONCRETE PAD,
2-16mm Diameter, 250mm Long Bolts

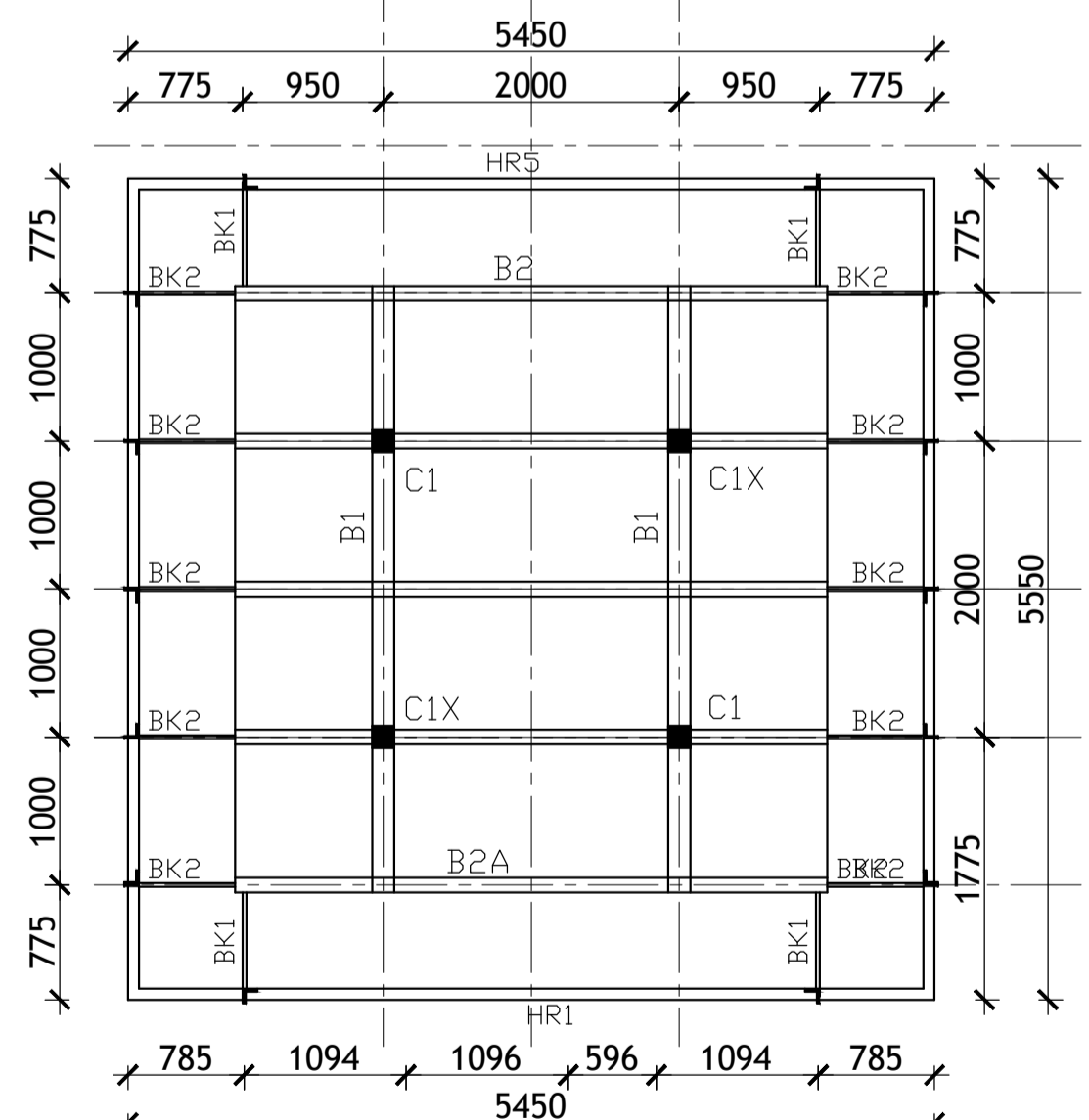
HIGH LEVEL WATER TANK FOUNDATION LAYOUT PLAN (Scale 1:25).



SECTION C-C PLAN BRACINGS
Scale 1:50

MEMBER SIZES

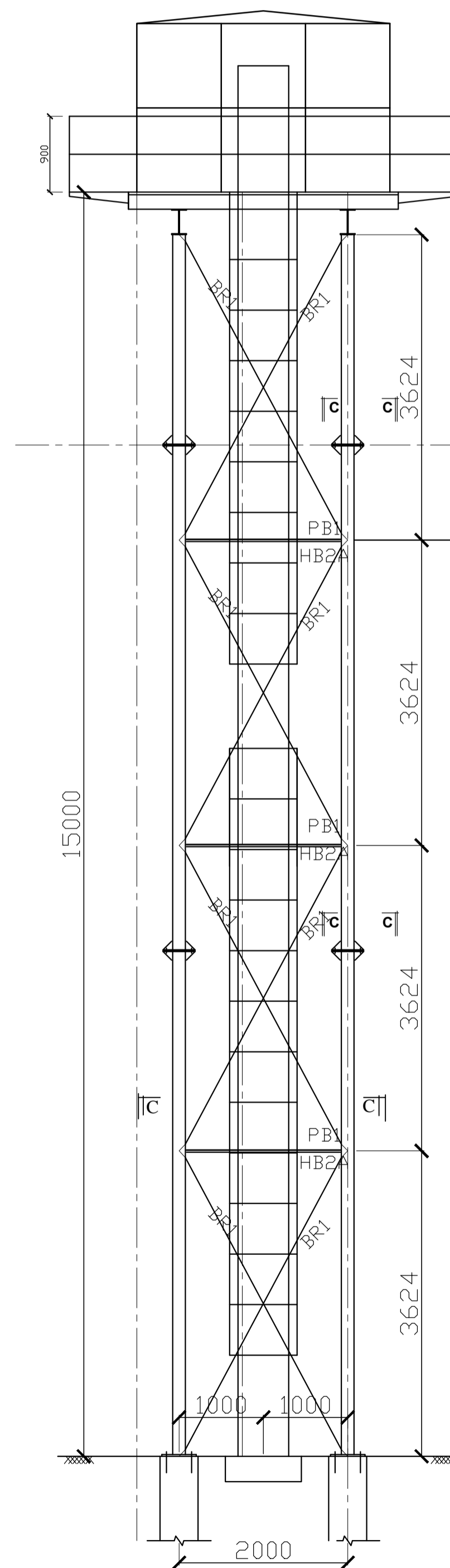
CODE	MEMBER SIZE
M1	100x100x4mm SHS
BR1	50x50x4mm Angle
PB1	50x50x4mm Angle
HB2	50x50x4mm Angle
BK1	50x50x4mm Angle
CP1	250x250x8mm Thick connector plate
B1	300x165x54Kg/m UB
B2	203x133x25Kg/m UB



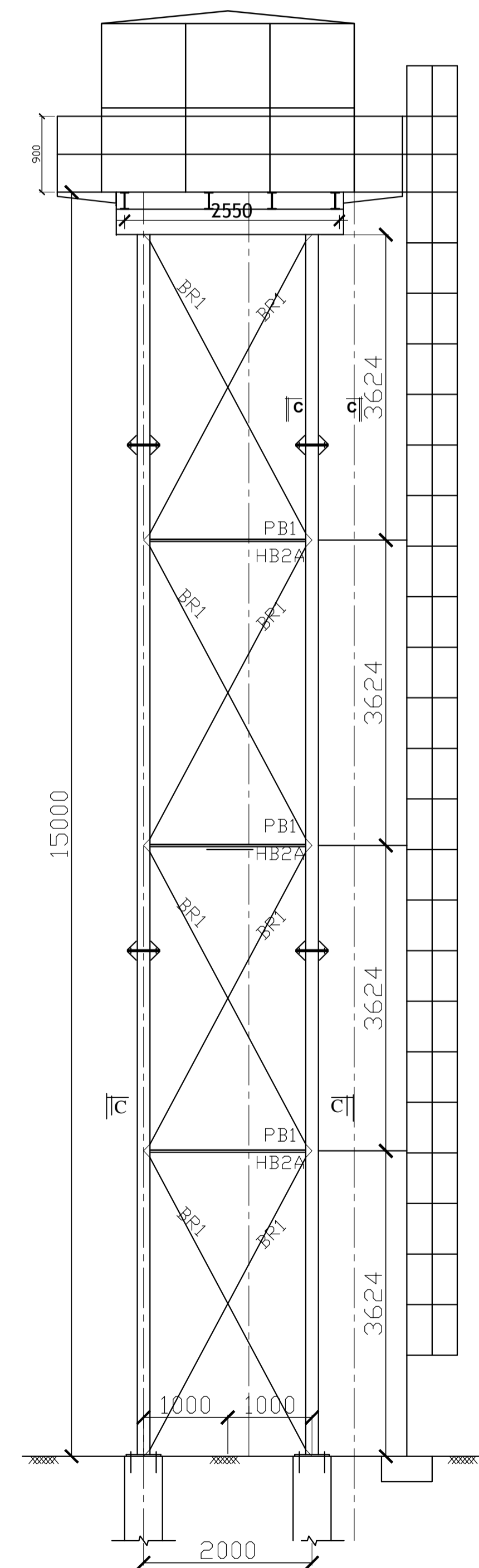
GENERAL ARRANGEMENT OF STEEL WORKS
ON THE DECKING OF THE WATER TANK
Scale 1:50

ROOF STEEL NOTES

1. This drawing must be read in conjunction with architectural and any other relevant drawings.
2. The Contractor must confirm all dimensions on site before commencing any work.
3. All steel works to confirm to BS 5950
4. All welds shall be continuous fillet weld and to BS 5135 and electrodes shall comply with BS 639
5. All bolted connections shall be made with appropriate washers under both the bolt head and nut.
6. All fabrication and connection details to be provided by the steel fabricator for approval to the Project Structural Engineer prior to commencement of fabrication.
7. After fabrication of the steel work and all surfaces shall be painted with two coats of red oxide primer.
8. After transit and erection, all damaged paint work or coating shall be repaired to the Engineer's satisfaction.



ELEVATION (Scale 1:50)



ELEVATION (Scale 1:50)

NOTES

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ISSUES				
DATE	TO	APPLICATION	TO	

REVISIONS					
NO.	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS	
DESCRIPTIONS	

CLIENT	KENYA MEDICAL RESEARCH INSTITUTE (KEMRI)	JOB No.	
PROJECT TITLE	PROPOSED CONSTRUCTION OF LIAISON OFFICE AT KEMRI KIRINYAGA STATION.		
DRAWING TITLE	HIGH LEVEL WATER TANK STRUCTURAL DETAILS		

C1/Sb			
M.O.T./P.W. H. & UD	DRG No.	STR 01	
	FILE No.		
SCALE(S)	1:50, 1:25, 1:20.	FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING	
APPROVED BY			

ENG. H. J. N. Nyaanga
CHIEF ENGINEER (STRUCTURAL)

DESIGNED/DRAWN	K. T. Mutai	SIGN		DATE
CHECKED BY:	Eng. G. S. Otipa			

MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT OF PUBLIC WORKS
STRUCTURAL DEPARTMENT