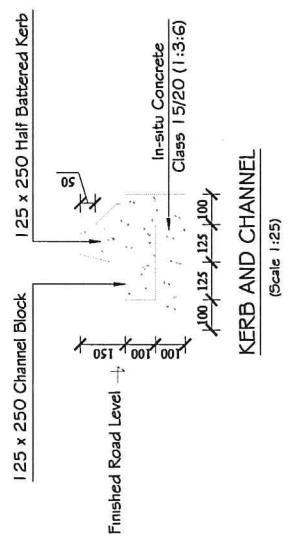
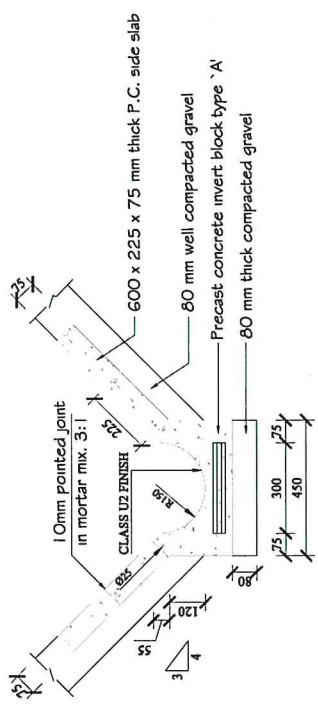


**ROAD SECTION DETAIL**  
(Scale 1:25)



**KERB AND CHANNEL**  
(Scale 1:25)



**END ELEVATION**

**SIDE ELEVATION**

**INVERT BLOCK DRAIN TYPE 'A' ASSEMBLY DETAIL**  
(Scale 1:25)

APPROVED	NAME	DATE	SIGN
CHECKED	DJAWANSI		
ENGINEER I/C			
CHECKED	D. Gahro		
DRAMAN			
CHECKED			
INSPECTOR			
DRAWN	DJAWANSI	17/02/2020	Kahore
SUPERVISOR			
PLACED			

NO	REVISION	DATE	SIGN	CHECKED	DATE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

**CIVIL WORKS DETAILS SUBSTATION**

SCALE: 1:100

**SHEET 2A**

K.P. & L. Co. LTD.  
Kenya Power  
SK. No. 05921

*Handwritten signature and date: 17/02/2020*



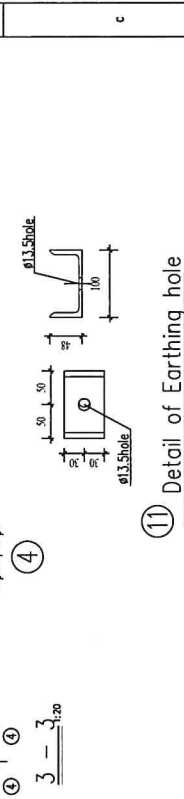








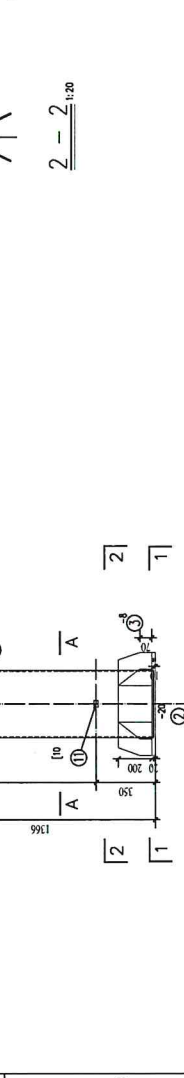
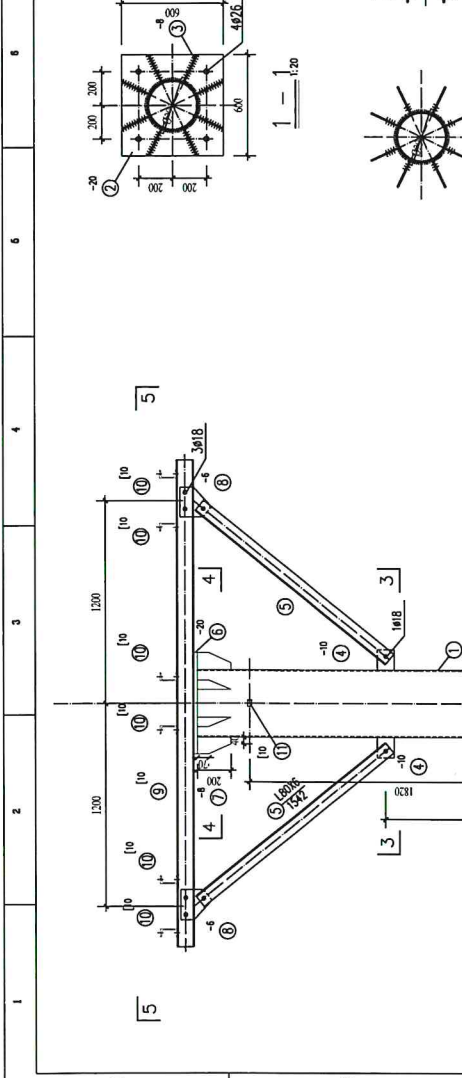
MEMBER LIST						
NO.	SIZE	LENG. (mm)	QTY	WGT (KG)		NOTE
				SING	SUB	
1	Ø29x8	2470	1	141.81	141.8	
2	-20x600	600	1	65.28	65.3	
3	-8x180	180	8	2.15	17.2	
4	-10x100	120	4	1.03	4.1	
5	L80x6	1542	4	7.38	45.52	
6	-20x600	600	1	62.17	62.2	
7	-8x180	200	8	1.58	12.6	
8	-8x177	187	4	2.29	9.2	
9	∅10	2800	2	28	56	
10	∅10	348	3	3.48	10.44	
10*	∅10	5240	3	52.40	157.20	
11	∅10	60	2	0.6	1.2	
TOTAL					582.76 kg	



⑪ Detail of Earthing hole  
(After grounding flat steel fixed spot welding.)

**NOTE:**  
 1. Blinding Concrete Grade: C15,  
 Other Concrete Grade: C25 with 20mm aggregate,  
 Secondary grouting Concrete Grade: C30,  
 Min Cober to Reinforcement unless Specified otherwise: 40mm.  
 2. Steel materials: Q235B, Welding rod: E43.

3. The material should be assembled and welded after blanked, all welds shall be enclosed, the welding height shall be 8mm or 1.2 times of thinner weldment.  
 4. All steel member parts shall be hot-dip galvanized as per DIN BS 5950 (Thickness not less than 86um).  
 5. All bolts, nuts, washers shall be hot-dip galvanized as per DIN BS 5950 (Thickness not less than 50um for M20 above & 45um for M10 above).



⑪ Detail of Earthing hole  
(After grounding flat steel fixed spot welding.)

**NOTE:**  
 1. Blinding Concrete Grade: C15,  
 Other Concrete Grade: C25 with 20mm aggregate,  
 Secondary grouting Concrete Grade: C30,  
 Min Cober to Reinforcement unless Specified otherwise: 40mm.  
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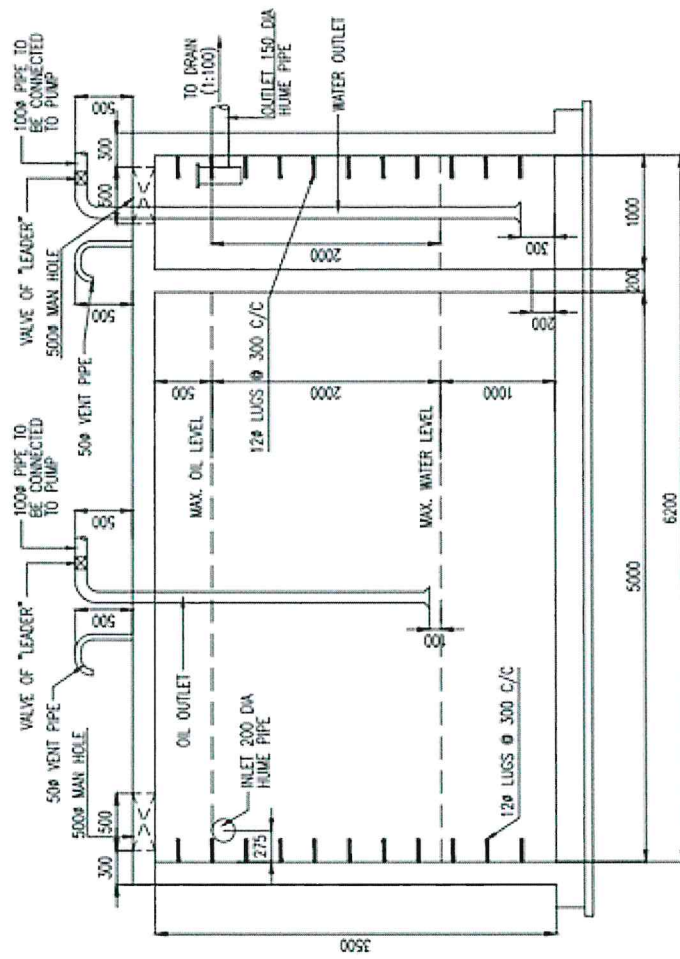
3. The material should be assembled and welded after blanked, all welds shall be enclosed, the welding height shall be 8mm or 1.2 times of thinner weldment.  
 4. All steel member parts shall be hot-dip galvanized as per DIN BS 5950 (Thickness not less than 86um).  
 5. All bolts, nuts, washers shall be hot-dip galvanized as per DIN BS 5950 (Thickness not less than 50um for M20 above & 45um for M10 above).

CLIENT:		THE KENYA POWER AND LIGHTING COMPANY LTD.	
CONTRACTOR:		GHNT ELECTRIC CO., LTD.	
CLIENT Dwg No.	PROJECT NO.	DATE	BY
	01	05-09-14	Lu
PROJECT FOR THE DESIGN, MANUFACTURE, SUPPLY, CONSTRUCTION, INSTALLATION, TESTING AND COMMISSIONING OF THE 11KV AIRTERMINAL AND SUBSTATION FOR THE WEST KENYA COAST AND INTERVIA			
DESIGNED	Lu	05-09-14	mm
CHECKED	Yu	07-09-14	A/A2
APPROVED	Zheng	10-09-14	SHEET 1   10   3
The installation diagram of Surge Arrester-Support Structure			
New Bambur-06-C-01W-07			REV: [00]

Cover:  
 Bot: 70mm  
 Side: 50mm  
 Top: 50mm

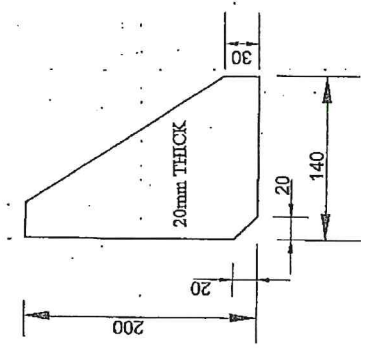
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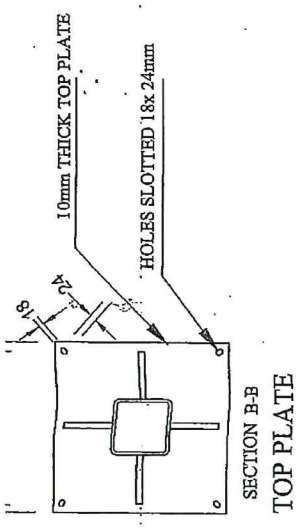


12/2/2022

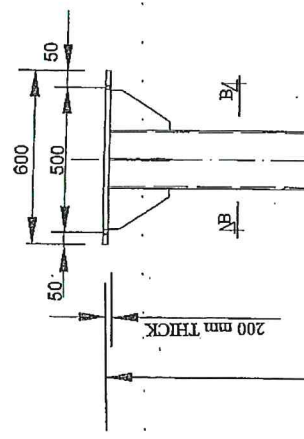
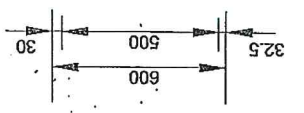




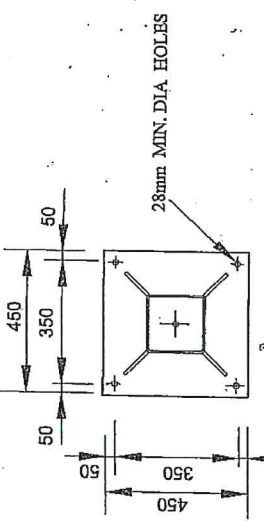
DETAIL Y



SECTION B-B  
TOP PLATE



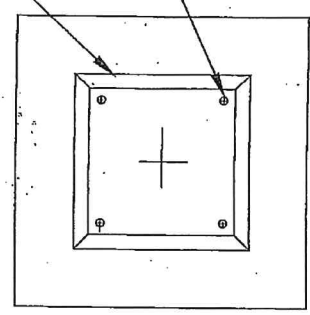
200mm THICK



SECTION A-A  
BASE PLATE



50mm CHAMFER



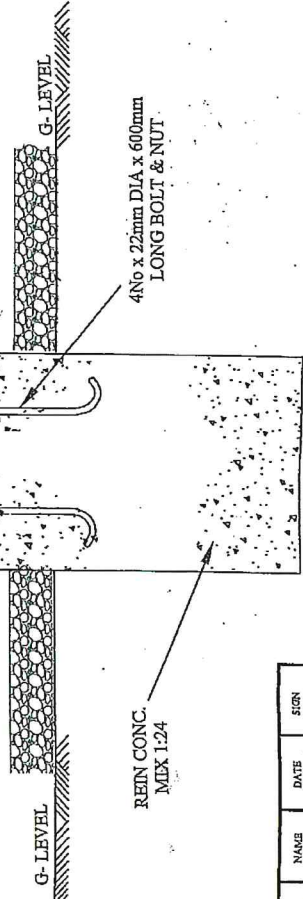
FOUNDATION PLAN

17mm DIA HOLE FOR EARTHING

4 No x 22mm DIA x 600mm LONG BOLT & NUT

20mm WEBB FOR EARTHING THICKNESS (SEE DETAIL Y)

REIN CONC. MEX 1:24



FRONT ELEVATION

12/02/2020

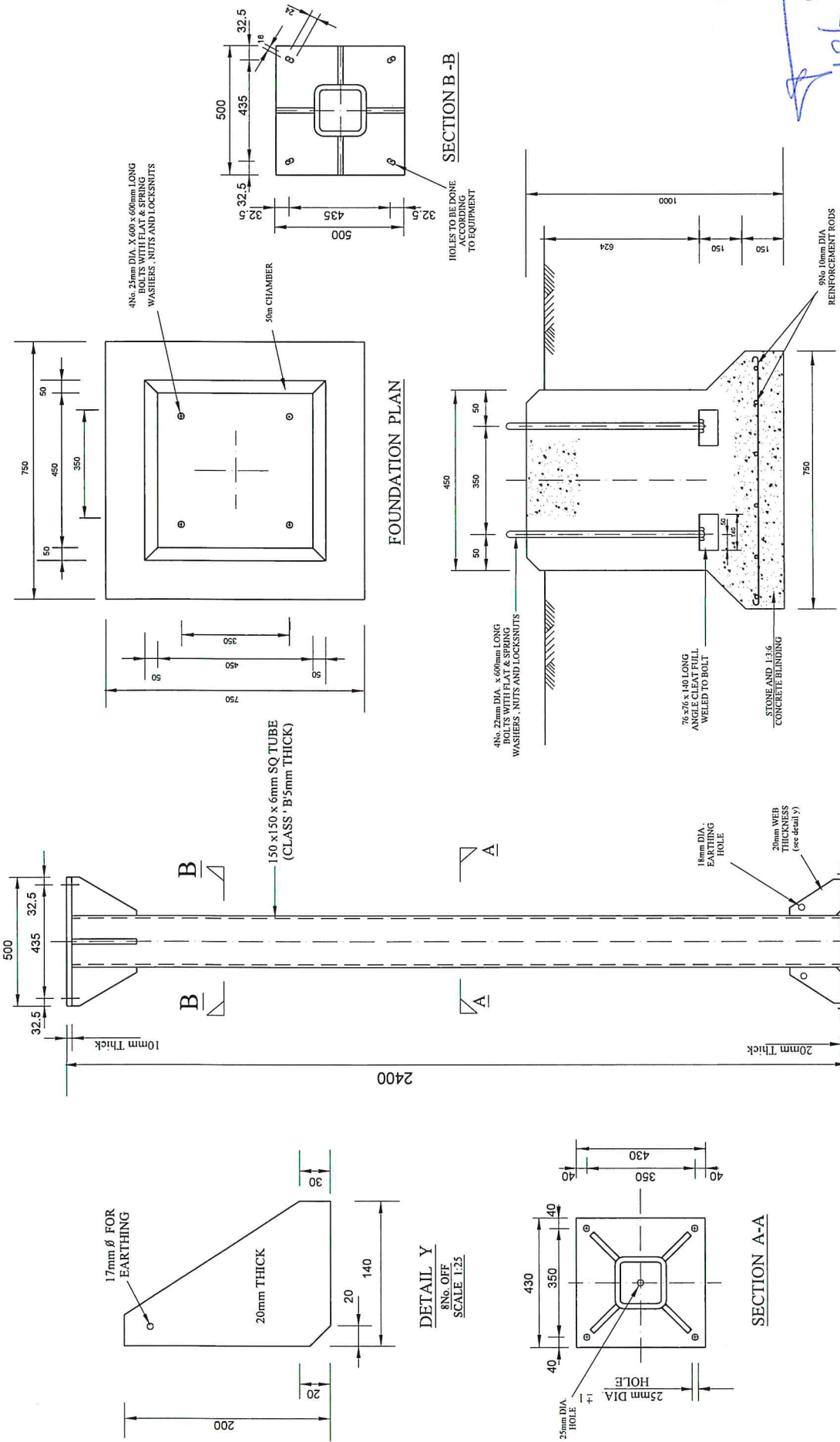
- NOTES:-
1. ALL MATERIALS TO BE MILD STEEL TO BSS 4360
  2. ALL STEEL WORK TO BE FREE FROM RUST DIRT BURRS ETC AND THEN GALVANIZED BY HOT DIP PROCESS, THICKNESS AND QUALITY OF ZINC COATING TO WITHSTAND TESTS OF BSS 729.
  3. EQUIPMENT CONNECTING BOLTS NUTS AND WASHERS TO BE SUPPLIED BY THE MANUFACTURERS.
  4. BOLT THREADS TO BE RECUT WITH SLACK DIES AFTER GALVANIZING AND THEN GREASED.
  5. SUPPLIED BOLTS, NUTS, AND WASHERS TO INCLUDE 10% SPARE AND TO CONFORM TO TO BSS 916
  6. FABRICATORS ARE TO DESIGNATE ALL STEEL WORK ITEM AS PER THIS DRAWING AND ARE TO PROVIDE ERECTION MARK.

132KV CT3, VTG & CVT3 Sk No 08409 / A

NAME	DATE	SIGN

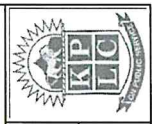
REV	DATE	SIGN	CHECKED	DATE





*Handwritten signature and date: 12/02/2009*

**SHEET 18**



**K. P. & L. Co. Ltd**  
**SK. No.09774**

**DETAILS OF 33& 11KV CTs & VTs. STRUCTURE - STEEL**  
**SCALE 1:10**

REF	REVISION	DATE	SIGN	CHECKED	DATE
1					
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4					
5					
6					

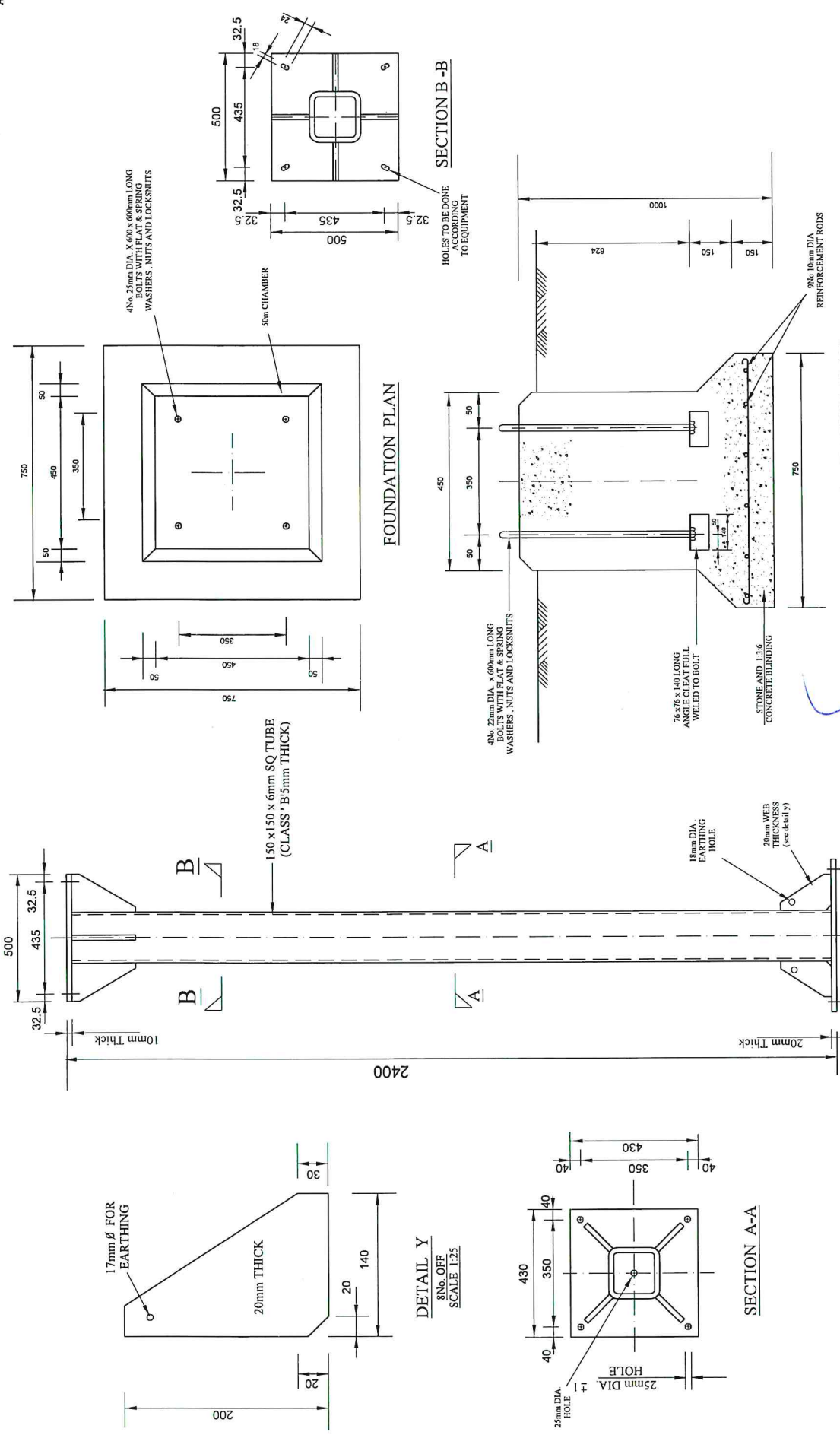
DATE	NAME	SIGN
21/07/2009	B. Gautho	
	S.M. Kimani	

APPROVED	TRACED
CHECKED ENGINEER J/C	
CHECKED PRINCIPAL D/MAN	
DRAWN	
TRACED	



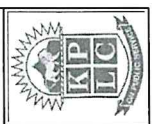




**SHEET 18**

**DETAILS OF 33& 11KV CTs & VTs. STRUCTURE - STEEL**

SCALE 1:10



**K. P. & L. Co. Ltd**  
SK. No.09774

REF	REVISION	DATE	SIGN	CHECKED	DATE
1					
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3					
4					
5					
6					

DATE	NAME	SIGN
21/07/2009	S. M. K. M. I.	<i>S. M. K. M. I.</i>

APPROVED	ENGINEER/JC	PRINCIPAL/DMAN	DRAWN	TRACED
	B. G. G. G.	S. M. K. M. I.		

CHECKED  
ENGINEER/JC  
CHECKED  
PRINCIPAL/DMAN  
DRAWN  
TRACED

