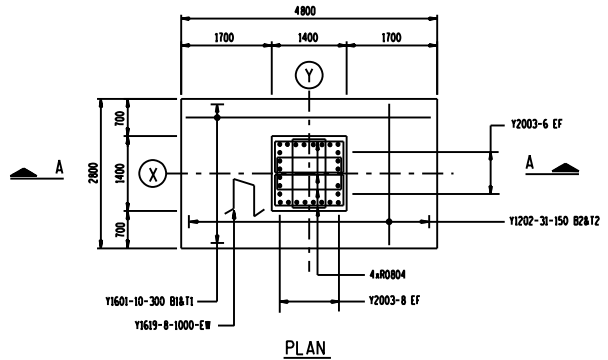
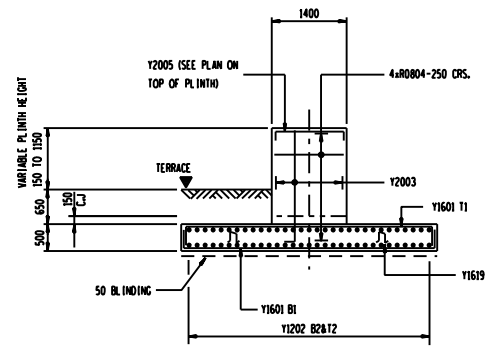
COLUMN FOUNDATION TYPE - RC1.

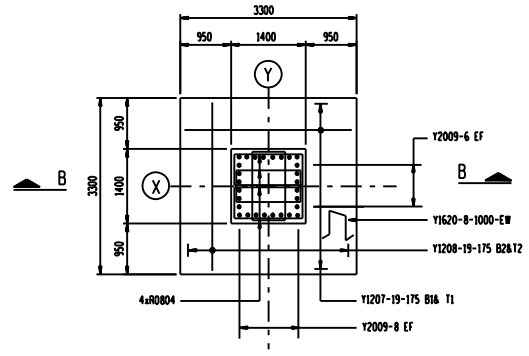


PLAN

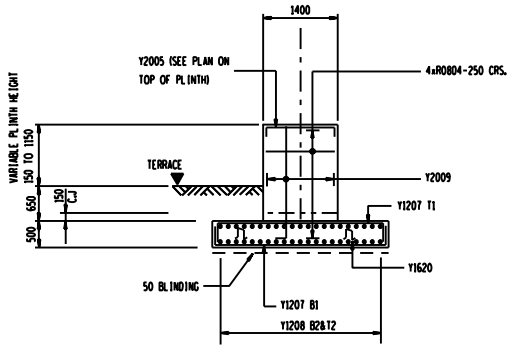


SECTION A-A

COLUMN FOUNDATION TYPE - RC2.

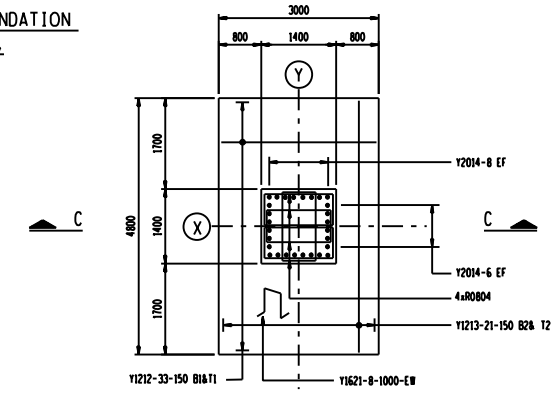


PLAN

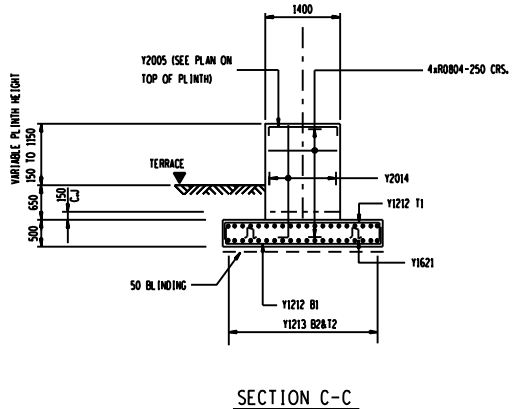


SECTION B-B

COLUMN FOUNDATION TYPE - RC3.

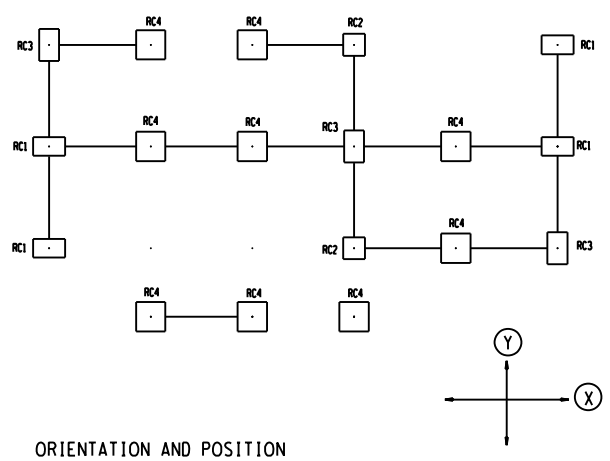


PLAN

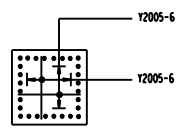


SECTION C-C

ITEM AND No OFF	TYPE OF BAR	DIA.	MK.	BARS No OFF PER ITEM	BARS No OFF TOTAL	CUTTING LENGTH mm	TOTAL LENGTH m	SHAPE CODE	STANDARD SHAPES BENDING DIMENSIONS mm A	B	C	D	E	R
	Y	16	01	20		5350		38	350	4700				
COLUMN FOUND.	Y	12	02	62		3350		38	350	2700				
TYPE - RC1	Y	20	03	28		B		34	A					
	R	08	04	4C		4000		60	1300	600				
	Y	20	05	12		1650		35	1280					
	Y	16	19	8		2050		83	300	350	600			
COLUMN FOUND.	Y	12	07	38		3850		38	350	3200				
TYPE - RC2	Y	12	08	38		3850		38	350	3200				
	Y	20	09	28		B		34	A					
	R	08	04	4C		4000		60	1300	600				
	Y	20	05	12		1650		35	1280					
	Y	16	20	8		1650		83	350	365	350			
COLUMN FOUND.	Y	12	12	66		3550		38	350	2900				
TYPE - RC3	Y	12	13	42		5350		38	350	4700				
	Y	20	14	28		B		34	A					
	R	08	04	4C		4000		60	1300	600				
	Y	20	05	12		1650		35	1280					
	Y	16	21	8		1650		83	350	365	350			
COLUMN FOUND.	Y	16	17	60		4950		38	350	4300				
TYPE - RC4	Y	20	18	28		B		34	A					
	R	08	04	4C		4000		60	1300	600				
	Y	20	05	12		1650		35	1280					
	Y	16	22	8		2350		83	600	350	600			



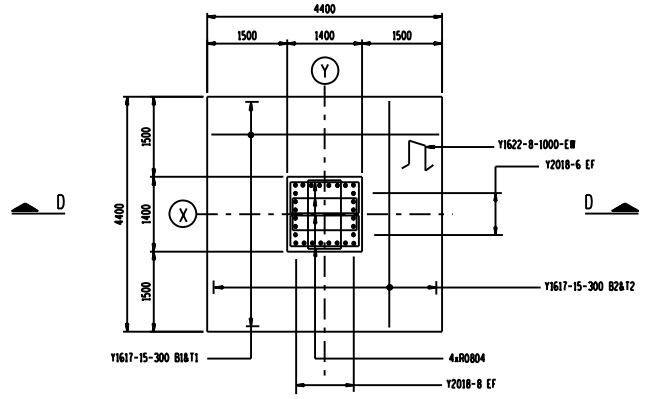
ORIENTATION AND POSITION
OF 132 kV STEELWORK FOUNDATIONS.



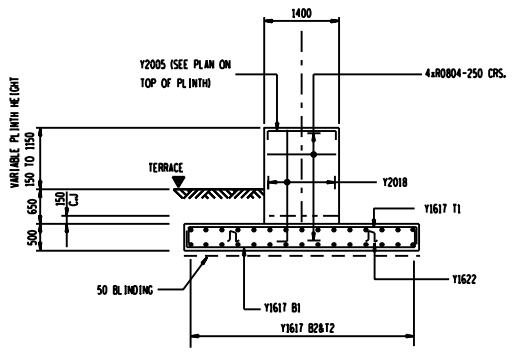
TYPICAL PLAN ON PLINTH

(STIRRUPS NOT SHOWN)

COLUMN FOUNDATION TYPE - RC4.



PLAN



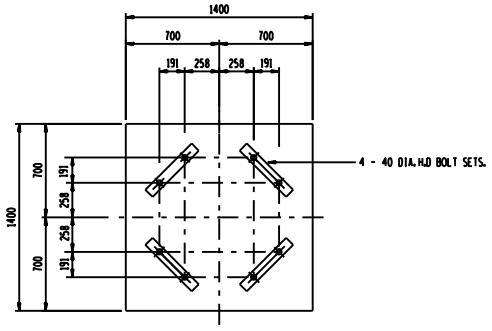
SECTION D-D

TO DETERMINE DIM. A,B & C.

A=500+650+VARIABLE PLINTH HEIGHT-130 = 1020 + VARIABLE PLINTH HEIGHT.
B=A+170
C= $\frac{A}{200}$

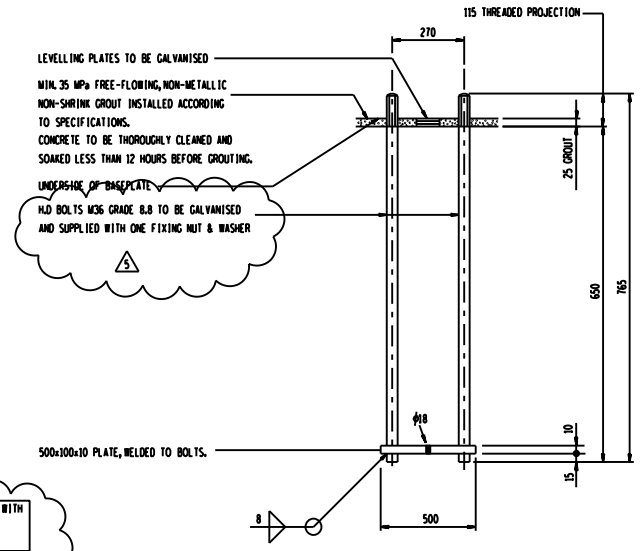
NOTES:

1) CONCRETE STRENGTHS AT 28 DAYS/STONE SIZE : BLINDING = 15/19
FOUNDATIONS = 25/19
2) MIN. CONCRETE COVER TO REINFORCEMENT = 50mm
3) THESE FOUNDATIONS HAVE BEEN DESIGNED TO FOUND ON COMPETENT FOUNDING MATERIAL HAVING A MIN. GROUND BEARING CAPACITY OF 150KPa
4) IN ALL CASES, COMPETENCY OF FOUNDING MATERIAL MUST BE ESTABLISHED BY A QUALIFIED GEOTECHNICAL ENGINEER
5) STEEL TEMPLATE TO BE USED FOR SETTING OUT H.D. BOLTS
6) a) H.D. BOLTS SUPPLIED BY CIVIL CONTRACTOR COMPLETE WITH NUTS & WASHERS AND TO BE GALVANISED TO S.A.B.S 763
(HOT DIPPED) AND MUST BE CLEARLY MARKED WITH DIAMETER, GRADE AND BASE TYPE
b) THREAD OF NUTS TO BE OVER-CUT TO SABS ISO 1461 TO ALLOW FOR THE THICKNESS OF GALVANISING
c) ANY DAMAGE TO THE GALVANISED SURFACES SHALL BE REPAIRED WITH AN APPROVED ZINK-METAL SPRAY OR INORGANIC ZINK-RICH PAINT COMPLYING WITH S.A.B.S. 926. APPLICATION TO SUPPLIERS SPECIFICATIONS
7) ALL TOP EDGES OF CONCRETE ABOVE GROUND TO HAVE 20 x 20 CHAMFERS
8) ALL WORK TO BE IN ACCORDANCE WITH S.A.B.S. 1200 SERIES SPECIFICATIONS
9) CONCRETE FINISH : TOP OF FOUNDATION - WOOD FLOAT FINISH
: SIDES - SMOOTH OFF SHUTTER FINISH



TYPICAL H.D BOLT POSITIONING ON PLINTH

1:10



MASS OF ONE BOLT COMPLETE WITH NUT AND WASHER = 6,65kg
TOTAL MASS = 53,20kg

MASS OF ONE PLATE = 3,925
TOTAL MASS = 15,7kg

5

TYPICAL H.D BOLT DETAIL

N.T.S

REV	AUTH	DATE	REVISIONS/REVISIES	BY	CHKD
5	B.K.S	2/9/16	HD BOLTS MASS ADDED	PHD	DBH
4	B.K.S	99/11/04	Ø40 HOLE ADDED TO H.D. BOLT DETAIL & NOTES REVISED.	B.K.	P.D.
3	B.K.S	4/99	REINFORCEMENT IN PADS REVISED	B.K.S	DBH
2	J.H	1/97	BOLT LENGTH CHANGED	DBH	J.H
1	DBH	7/96	SECTION B-B TYPING ERROR		
0			FIRST ISSUE / EERSTE UITREIKING		

INDEX REF/INDEKSVERW F1.59

0.54/ REFERENCE DRAWINGS VERWYSINGSTEKENINGE

CAD DRAWING NAME: 132FOUNDSCN

THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM AND ANY AMENDMENT TO THE DRAWING MUST BE EFFECTED ONLY ON THE SAME C.A.D. SYSTEM

DRAWN DETAILED: R v.d.E

CHKD RANGES: DBH

SCALE: 1:50 1:5

ESKOM

APPROVED: R. v.D ENDE

DESIGNED: K. PEACOCK

132kV YARD STEELWORK
STANDARD FOUNDATIONS
CONCRETE AND REINFORCEMENT DETAILS FOR PAD TYPE FOUNDATIONS

0.54/4316

REV 5

SIZE A0L