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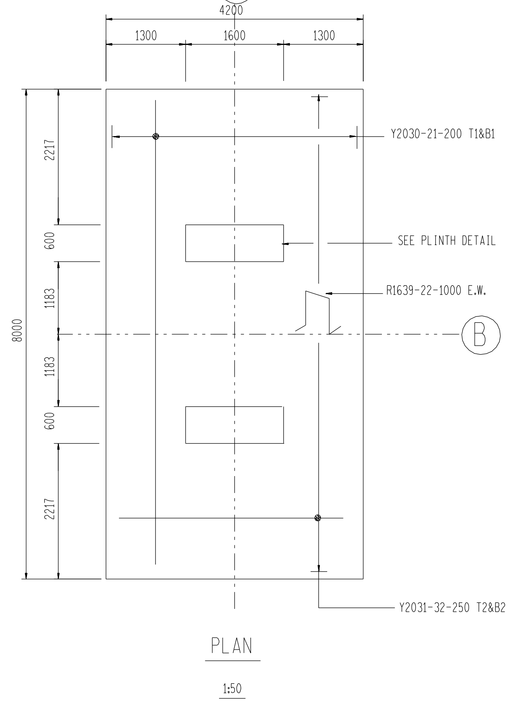
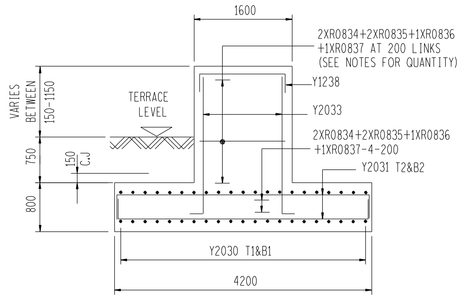
STRINGER STRAIN COLUMN FOUNDATION
TYPE NC1, NC2, NC12 , NC14 AND NC16

(FOR COLUMN TYPES NC1, NC2, NC12 & NC14)



PLAN

1:50



ELEVATION

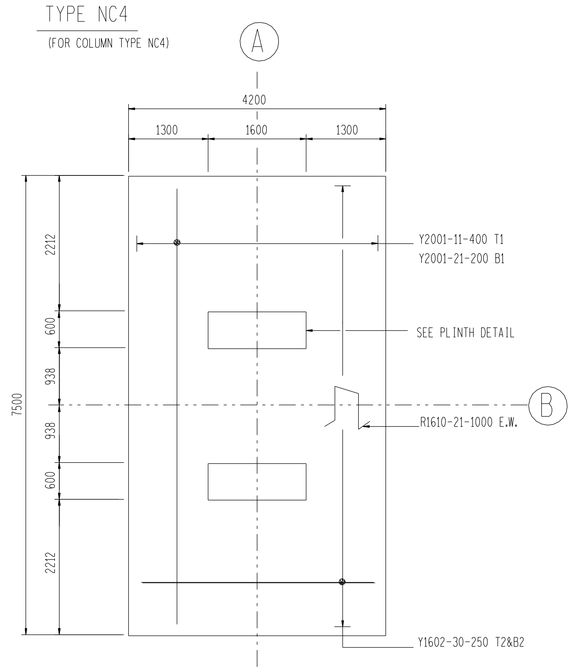
1:50

DETAIL OF PLINTH

1:20

CENTRE BUSBAR STRAIN COLUMN FOUNDATION
TYPE NC4

(FOR COLUMN TYPE NC4)



PLAN

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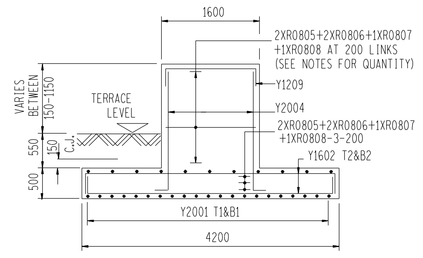


ELEVATION

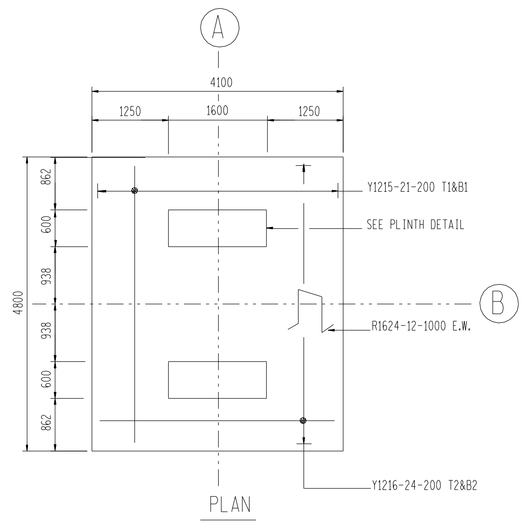
1:50

DETAIL OF PLINTH

1:20

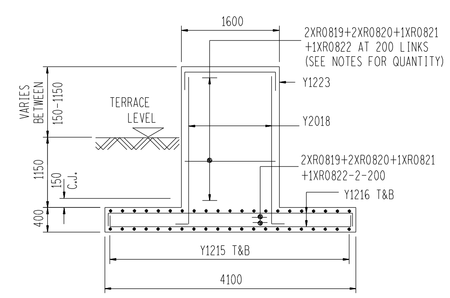
OUTER BUSBAR STRAIN COLUMN FOUNDATION
TYPE NC3 & NC11

(FOR COLUMN TYPE NC3 AND NC11)



PLAN

1:50



ELEVATION

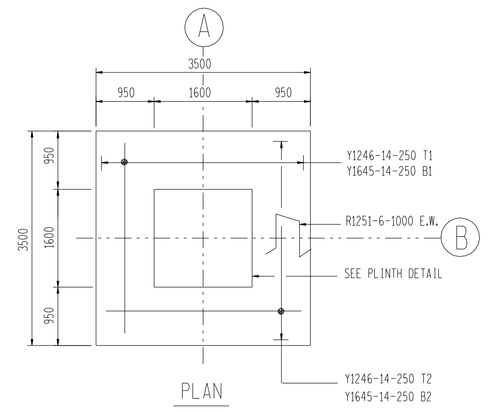
1:50

DETAIL OF PLINTH

1:20

SUSPENSION COLUMN FOUNDATION
TYPE NC5 TO NC10

(FOR COLUMN TYPES NC5 TO NC10)



PLAN

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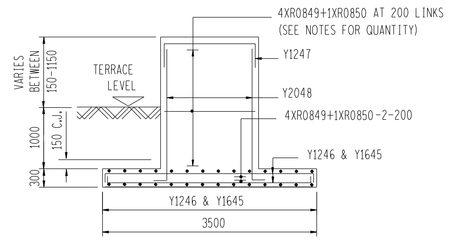
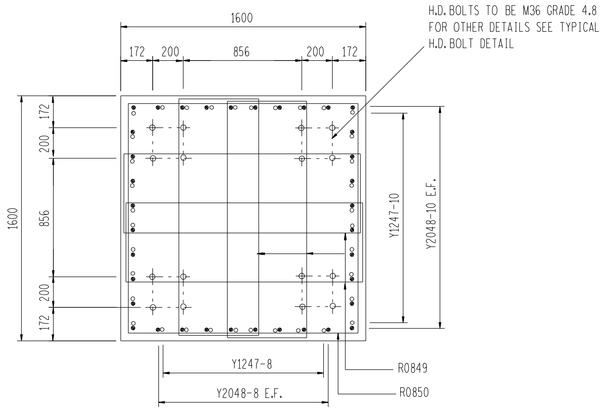


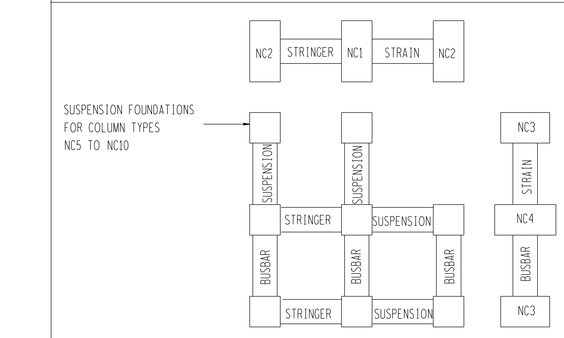
ELEVATION

1:50



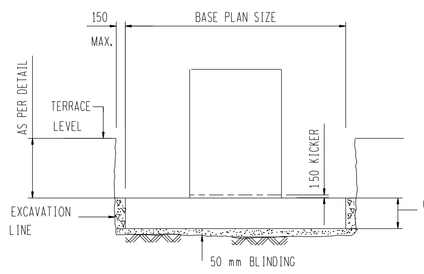
DETAIL OF PLINTH

1:20



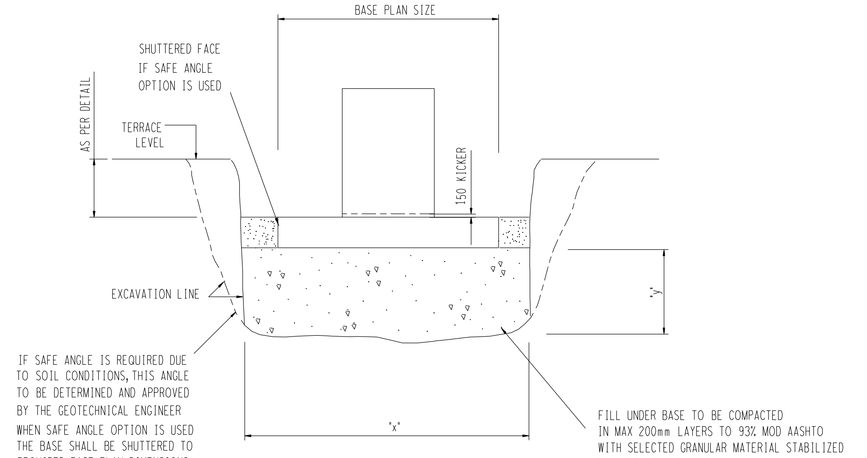
KEY PLAN

EXCAVATION DETAILS



DETAIL 1

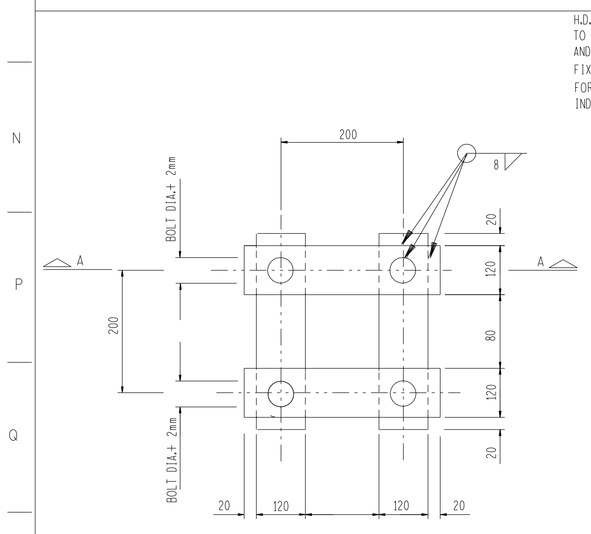
COMPETENT FOUNDING MATERIAL FOUND AT A LEVEL
NOT EXCEEDING 50 mm BELOW U/S OF
PLINTH BASE AS DETAILED



DIMENSIONS "x" & "y" TO BE
DETERMINED BY GEOTECHNICAL ENGINEER

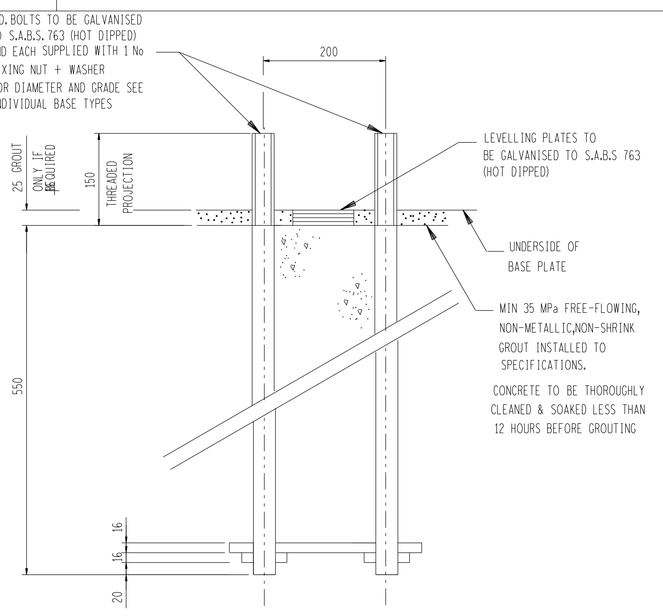
DETAIL 2

COMPETENT FOUNDING MATERIAL NOT
FOUND AT LEVEL AS PER DETAIL



TYPICAL PLAN ON H.D. BOLTS

N.T.S



TYPICAL SECTION A-A

1:5

ITEM AND No OFF	TYPE OF R	DIA.	MK.	BARS No OFF PER ITEM	BARS TOTAL	CUTTING LENGTH mm	TOTAL LENGTH m	SHAPE CODE	STANDARD SHAPES BENDING DIMENSIONS mm A	B	C	D	E	R
BASE TYPES NC4	Y	20	01	32		8150		38	420	7420				
	Y	16	02	60		4800		38	380	4120				
	Y	12	03	20		1050		38	300	520				
	Y	20	04	64		E		37	D					
	R	08	05	2F		1100		99	200	160	340			
	R	08	06	2F		2450		60	600	520				
	R	08	07	F		2700		60	520	720				
SHAPE CODE 99	R	08	08	F		4300		60	1520	520				
(TYPICAL)	Y	12	09	12		2050		38	300	1520				
	R	16	10	21		1700		83	500	360	300			
BASE TYPES NC3	Y	12	15	42		5300		38	320	4720				
	Y	12	16	48		4550		38	300	4020				
	Y	12	17	20		1050		38	300	520				
	Y	20	18	64		H		37	G					
	R	08	19	2J		1100		99	200	160	340			
	R	08	20	2J		2450		60	600	520				
	R	08	21	J		4300		60	1520	520				
	R	08	22	J		2700		60	520	720				
	Y	12	23	12		2050		38	300	1520				
	R	16	24	12		1350		83	400	280	250			
BASE TYPES NC1 & NC2	Y	20	30	42		9250		38	720	7920				
	Y	20	31	64		5400		38	690	4120				
	Y	12	32	20		1050		38	300	520				
	Y	20	33	64		B		37	A					
	R	08	34	2C		1100		99	200	160	340			
	R	08	35	2C		2450		60	600	520				
	R	08	36	C		4300		60	1520	520				
	R	08	37	C		2700		60	520	720				
	Y	12	38	12		2050		38	300	1520				
	R	16	39	22		2300		83	500	660	300			
BASE TYPES NC5 TO NC10	Y	16	45	28		3700		38	180	3420				
	Y	12	46	28		3750		38	200	3420				
	Y	12	47	18		2050		38	300	1520				
	Y	20	48	36		L		37	K					
	R	08	49	4M		4450		60	600	1520				
	R	08	50	M		6300		60	1520	1520				
	R	12	51	6		1400		83	500	180	300			

TO DETERMINE A,B,C,D,E,F,G,H,J

A=800+750+VARIABLE PLINTH HEIGHT-120

B=A+200

C=$\left(\left[\frac{\text{VARIABLE PLINTH HEIGHT}+750}{200}\right]+4\right)\times 2$

D=500+550+VARIABLE PLINTH HEIGHT-120

E=D+500

F=$\left(\left[\frac{\text{VARIABLE PLINTH HEIGHT}+550}{200}\right]+3\right)\times 2$

G=400+1150+VARIABLE PLINTH HEIGHT-110

H=G+600-50

J=$\left(\left[\frac{\text{VARIABLE PLINTH HEIGHT}+1150}{200}\right]+2\right)\times 2$

K=300+1000+VARIABLE PLINTH HEIGHT-110

L=K+700-50

M=$\left[\frac{\text{VARIABLE PLINTH HEIGHT}+1000}{200}\right]+2$

QUANTITIES SHOWN IN SCHEDULE ARE FOR ONE BASE ONLY

NOTES:

1) CONCRETE STRENGTHS AT 28 DAYS/STONE SIZE : BLINDING = 15MPa/19
FOUNDATIONS = 25MPa/19
2) MIN. CONCRETE COVER TO REINFORCEMENT = 40mm
3) THESE FOUNDATIONS HAVE BEEN DESIGNED TO FOUND ON COMPETENT FOUNDING MATERIAL HAVING A MIN. GROUND BEARING CAPACITY OF 150KPa
4) FOR EXCAVATION DETAILS SEE DETAILS 1 & 2
5) THESE FOUNDATIONS SHALL NOT BE USED WHERE INCOMPETENT FOUNDING CONDITIONS ARE ENCOUNTERED eg. UNSTABLE CLAYS, COLLAPSING SAND, TRANSPORTED SOILS, HIGH WATER TABLE etc
6) IN ALL CASES, COMPETENCY OF FOUNDING MATERIAL MUST BE ESTABLISHED BY A QUALIFIED GEOTECHNICAL ENGINEER
7) WHERE ADJACENT COLUMN BASES BUTT AGAINST ONE ANOTHER, AN ISOLATION JOINT MUST BE PROVIDED.ie. THEY ARE NOT TO BE CAST MONOLITHICALLY
8) STEEL TEMPLATE TO BE USED FOR SETTING OUT H.D. BOLTS
9) 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 ALLOW FOR THE THICKNESS OF GALVANISING
c) ANY DAMAGE TO THE GALVANISED SURFACES SHALL BE TOUCHED UP WITH ZINK-METAL SPRAY OR INORGANIC ZINK-RICH PAINT COMPLYING WITH S.A.B.S. 926. APPLICATION TO SUPPLIERS SPECIFICATIONS
10) ALL TOP EDGES OF CONCRETE ABOVE GROUND TO HAVE 20x20 CHAMFERS
11) ALL WORK TO BE IN ACCORDANCE WITH S.A.B.S. 1200 SERIES SPECIFICATIONS
12) CONCRETE FINISH : TOP OF FOUNDATION - WOOD FLOAT FINISH
: SIDES - SMOOTH OFF SHUTTER FINISH

REV	AUTH	DATE	REVISION/REVISIES	BY	CHKD	0.54/	REFERENCE DRAWINGS
	MAG	DATUM	INDEX REF/INDEKSVERW F1.59	DEUR	NAGES		VERWYSINGSTEKENINGE
10	DJC.S	04.08	NC16 ADDED	DJC.S	DBN		
9	DJC.S	02.07	NC12 & NC14 ADDED WITH NC1 AND NC2.	DJC.S	DBN		
8	DJC.S	4/99	NOTES AND HD BOLT GRADE REVISED.	DJC.S	DBN		
7	JN	1/97	BOLT LENGTH CHANGED	DBN	JN		
6	RvdE	11.93	BAR SHAPE '99 CHANGED	DJN	DJN		
5	S.B	03.93	NC11 ADDED TO NC3	DJN	V.C.S		
4	F.AL	01.92	NOTE 9 REVISED	K.J.S	M.S.		
ø			FIRST ISSUE / EERSTE UITREIKING				

ORIG'TEK REGISTR

F.AL	6.12.89	ESKOM	400kV YARD STEELWORK
AB	6.12.89		STANDARD FOUNDATIONS
CHKD NAGES	DD	6.12.89	CONCRETE AND REINFORCEMENT DETAILS
DRAWN GETEKEN	C.A.R.	APPROVED N.BARNARD	FOR PAD TYPE FOUNDATIONS
SCALE SKAAL	AS SHOWN	6.12.89	GOEDGEKEUR

REV 10

0.54/3996

CAD DRAWING NAME: 4FOUNDDGN

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

SIZE GROOTTE A0L