



FOUNDATION SCHEDULE & R/F:

FDN MKD.	SIZE (x x x y)	QUANTITY	FDN DEPTH	REINFORCEMENT (X DIRECTION)	REINFORCEMENT (Z DIRECTION)
F1	1400x1400x400	5	2000	Y16 @225C/C	Y16 @225C/C
F2	1400x1400x350	14	2000	Y16 @225C/C	Y16 @225C/C
F3	1700x1700x450	9	2000	Y16 @175C/C	Y16 @175C/C
F4	1600x1600x450	5	2000	Y16 @225C/C	Y16 @225C/C
F5	1100x1100x300	3	2000	Y12 @200C/C	Y12 @200C/C
F6**	1100x1100x300	3	2000	Y12 @200C/C	Y12 @200C/C

FOUNDATION PLAN
(SCALE 1:100)

TYPICAL CROSS SECTION OF PLINTH BEAM (PB1)
(SCALE 1:10)

DETAILS OF COLUMNS
(SCALE 1:10)

KENYA POWER AND LIGHTING CO. Ltd.
NORCONSULT

1. ALL DIMENSIONS ARE IN MM COORDINATE AND LEVEL IN METER UNLESS OTHERWISE SPECIFIED.
2. FGL CORRESPONDS TO (+) 0.00 METER.
3. CONCRETE GRADE SHALL BE M20 AS PER IS:456 (LATEST) & REINFORCEMENT STEEL OF GRADE Fe 410 AS PER IS:1786 (LATEST)
4. LAP LENGTH SHALL BE 47 TIMES THE DIAMETER OF BAR.
5. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS BELOW:
(a) FOR FOUNDATION = 50mm.
(b) FOR BEAMS = 25mm.
(c) FOR SLAB = 20mm.
6. NET BEARING CAPACITY OF SOIL CONSIDERED AS 35 T/m² AT FOUNDATION LEVEL.
7. IN CASE CABLE TRENCH ENTERS CONTROL BUILDING, THE BOTTOM OF PLINTH BEAM SHALL MATCH WITH FGL AT THAT PARTICULAR LOCATION.

REFR. DRG. NO.	DESCRIPTION	REV.	DATE	BY	CHECKED	APPROVED	STATUS
1		0					
2		1					
3							
4							
5							
6							
7							
8							

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SCALE 1:1

TITLE: DETAILS OF FOUNDATION, PLINTH BEAM & COLUMN FOR CONTROL ROOM BUILDING

PROJECT: DISTRIBUTION REINFORCEMENT & UPGRADE CONTRACT-II, SUBSTATIONS, TRANSFORMERS, LINES AND CABLES (APD FINANCED COMPONENT)

LOA No.: KPL/CESRP/03/035

SUBSTATION: KIPEVU - M14