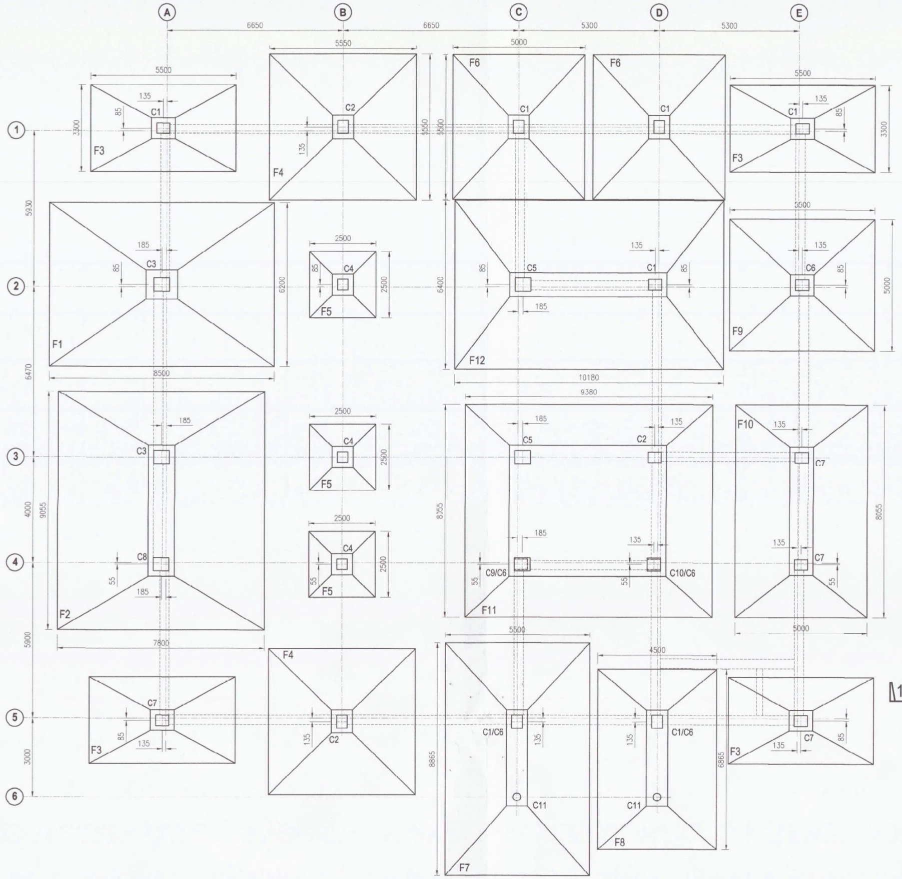
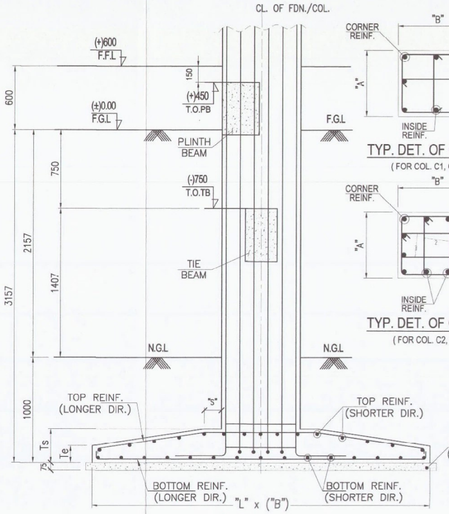
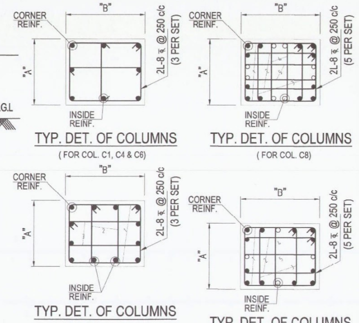


GROUND FLOOR PLAN



SECTION 1 - 1

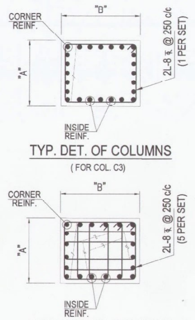


TYP. DET. OF COLUMNS (FOR COL. C1, C4 & C6)

TYP. DET. OF COLUMNS (FOR COL. C8)

TYP. DET. OF COLUMNS (FOR COL. C2, C7 & C10)

TYP. DET. OF COLUMNS (FOR COL. C9)



TYP. DET. OF COLUMNS (FOR COL. C3)

TYP. DET. OF COLUMNS (FOR COL. C5)

SCHEDULE OF R.C. COLUMN

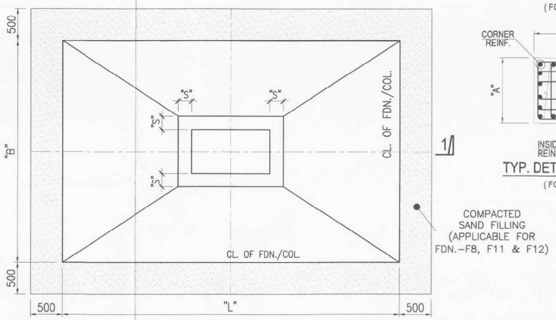
SL. No.	COLUMN MKD.	SIZE A (mm)	SIZE B (mm)	GRID MKD.	NO. OF COLUMN	REINFORCEMENTS CORNER a	INSIDE b	PERIPHERAL	STIRRUPS S
1	C1	400	500	1A, 1C, 1D, 1E, 2D, 5C & 5D	7	4-20 ₹	4-20 ₹	-	8 ₹ 250 C/C (2 Nos./SET)
2	C2	400	500	1B, 3D & 5B	3	4-20 ₹	8-20 ₹	-	8 ₹ 250 C/C (3 Nos./SET)
3	C3	500	600	2A & 3A	2	4-25 ₹	20-25₹	-	8 ₹ 250 C/C (1 Nos./SET)
4	C4	400	400	2B, 3B & 4B	3	4-16 ₹	4-16 ₹	-	8 ₹ 250 C/C (2 Nos./SET)
5	C5	500	600	2C & 3C	2	4-25 ₹	16-25₹	-	8 ₹ 250 C/C (5 Nos./SET)
6	C6	400	500	2E, 4C, 4D, 5C & 5D	5	4-20 ₹	4-16 ₹	-	8 ₹ 250 C/C (2 Nos./SET)
7	C7	400	500	3E, 4E, 5A & 5E	4	4-20 ₹	8-16 ₹	-	8 ₹ 250 C/C (3 Nos./SET)
8	C8	500	600	4A	1	12-25₹	8-20 ₹	-	8 ₹ 250 C/C (5 Nos./SET)
9	C9	500	600	4C	1	12-25₹	4-20 ₹	-	8 ₹ 250 C/C (5 Nos./SET)
10	C10	500	500	4D	1	8-25 ₹	4-16 ₹	-	8 ₹ 250 C/C (3 Nos./SET)
11	C11	300Ø		6C & 6D	2	-	-	7-12 ₹	8 ₹ 190 C/C (1 No./SET)

NOTE-

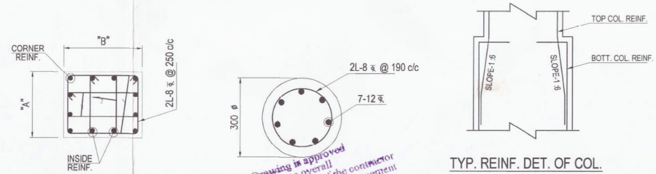
1. AT GRID 4C, COLUMN C9 UP TO 8.4M LEVEL AFTER THAT COLUMN C6 WILL CONTINUE UP TO 11.95M LEVEL.
2. AT GRID 4D, COLUMN C10 UP TO 8.4M LEVEL AFTER THAT COLUMN C6 WILL CONTINUE UP TO 11.95M LEVEL.
3. AT GRID 5C, COLUMN C1 UP TO 8.4M LEVEL AFTER THAT COLUMN C6 WILL CONTINUE UP TO 11.95M LEVEL.
4. AT GRID 5D, COLUMN C1 UP TO 8.4M LEVEL AFTER THAT COLUMN C6 WILL CONTINUE UP TO 11.95M LEVEL.
5. COLUMN C4 WILL CONTINUE UP TO TIE BEAM.

SCHEDULE OF FOUNDATION

FDN. MKD.	SIZE "L"	SIZE "B"	SIZE "S"	THICKNESS Te	THICKNESS Ts	BOTTOM REINF. LONGER DIR.	BOTTOM REINF. SHORTER DIR.	TOP REINF. LONGER DIR.	TOP REINF. SHORTER DIR.
F1	8500	6200	300	250	550	16₹ @ 150 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c
F2	9055	7800	200	150	500	12₹ @ 150 c/c	16₹ @ 150 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c
F3	5500	3300	200	150	350	16₹ @ 150 c/c	12₹ @ 200 c/c	12₹ @ 200 c/c	12₹ @ 200 c/c
F4	5500	5500	200	150	450	12₹ @ 150 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c
F5	2500	2500	200	150	300	10₹ @ 175 c/c	10₹ @ 175 c/c	10₹ @ 175 c/c	10₹ @ 175 c/c
F6	5500	5000	200	150	450	12₹ @ 150 c/c	12₹ @ 130 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c
F7	8865	5500	200	150	500	12₹ @ 125 c/c	16₹ @ 125 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c
F8	6865	4500	200	150	500	12₹ @ 125 c/c	16₹ @ 175 c/c	12₹ @ 150 c/c	12₹ @ 150 c/c
F9	5500	5000	200	150	450	12₹ @ 150 c/c	12₹ @ 175 c/c	12₹ @ 175 c/c	12₹ @ 175 c/c
F10	8055	5000	200	150	450	10₹ @ 125 c/c	12₹ @ 150 c/c	10₹ @ 125 c/c	10₹ @ 125 c/c
F11	9255	8055	200	150	600	12₹ @ 125 c/c	12₹ @ 125 c/c	12₹ @ 125 c/c	12₹ @ 125 c/c
F12	10055	6400	200	150	660	12₹ @ 125 c/c	12₹ @ 125 c/c	12₹ @ 125 c/c	12₹ @ 125 c/c



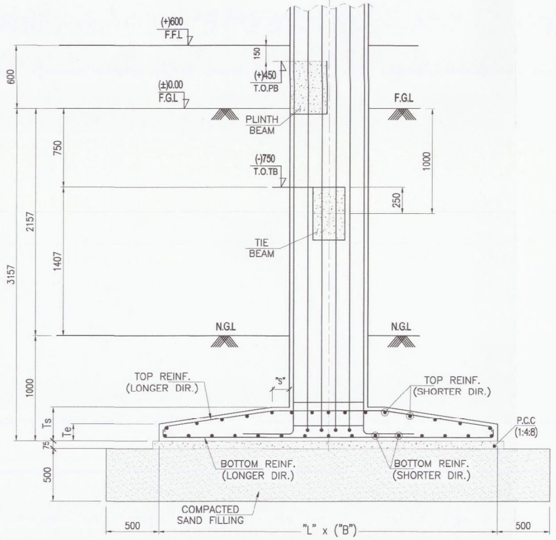
TYP. DET. OF FOUNDATION



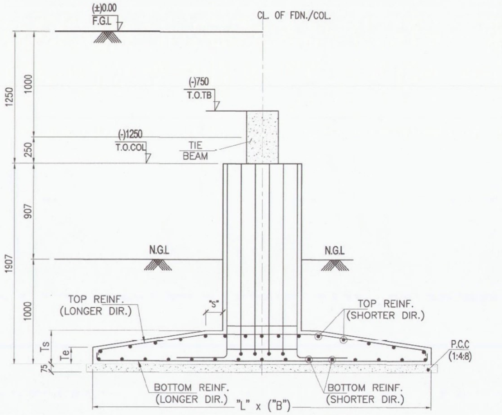
TYP. DET. OF COLUMNS

TYP. DET. OF COLUMN MKD. (C11)

TYP. REINF. DET. OF COL. AT SIZE CHANGING PORTION



SECTION 1-1 FOR FDN MKD. (F8, F11 & F12)



TYP. SECTION FOR FDN MKD. (F5)

NOTES:-

1. ALL DIMENSIONS & LEVELS ARE IN MM. UNLESS NOTED OTHERWISE.
2. CONCRETE GRADE SHALL BE AS FOLLOWS:–
   a). BINDING CONCRETE MIX PROPORTION (1:4:8)
   b). R.C.C. WORK MIX PROPORTION (M–20)
3. CLEAR COVER TO MAIN RE-INFORCEMENTS SHALL BE AS FOLLOWS:–
   a) BOTTOM RAFT – TOP, BOTTOM & SIDE – 50 mm.
   b) COL. – 40 mm. c) BEAM – 40 mm. (BELOW F.G.L)
4. REINFORCEMENTS SHALL BE HIGH YIELD STRENGTH DEFORMED TMT BARS OF CHARACTERISTICS STRENGTH Fe–500 N/mm².
5. MINIMUM ANCHORAGE LENGTH AND LAP OF BARS SHALL BE 50XDIA OF BARS
6. BARS TO BE LOCALLY ADJUSTED TO AVOID CUT OUTS, POCKETS ETC.
7. LAPS IN REINFORCEMENT TO BE PROVIDED IN STAGGERD LOCATION.

Drawing is approved ... responsibility of the contractor in terms of ... or turn key for the ...
Chief Engineer (Civil-II) BSPTCL
Superintending Engineer (Civil) BSPTCL

BIHAR STATE POWER TRANSMISSION COMPANY LTD. (BSPTCL)

TITLE : CONTROL ROOM BUILDING FOUNDATION LAYOUT AND DETAILS

DWG. NO. CD_220KVCRB_04-05

SCALE :	1: 100	SHEET 01 OF 05