SCHEDULE OF R.C.C. COLUMNS

COLUMN MKD.	SIZE & REINFORCEMENT FROM BASE TO 2ND. FL. LVL.	SIZE & REINFORCEMENT FROM 2ND. FL. LVL. TO 3RD. FL. LVL.	SIZE & REINFORCEMENT FROM 3RD. FL. LVL. TO ABOVE FL. LVL.	STIRRUP
C11,C13	300 X 600 8 - 20 Φ 8 - 20 Φ	300 X 600 4 - 20 Φ 4 - 16 Φ 4 - 16 Φ 4 - 20 Φ	300 X 600 4 - 16 Φ 4 - 12 Φ 4 - 12 Φ 4 - 16 Φ	520, 220 225, 220 8 TOR @ 200 C/C
C12,C20	300 X 600 6 - 20 Φ 6 - 20 Φ	300 X 600 4 - 20 Φ 2 - 16 Φ 2 - 16 Φ 4 - 20 Φ	300 X 600 4 - 16 Φ 2 - 12 Φ 2 - 12 Φ 4 - 16 Φ	520, 220 114, 220 8 TOR @ 200 C/C
C9,C10,C19	300 X 500 7 - 20 Φ 7 - 20 Φ	300 X 500 4 - 20 Φ 3 - 16 Φ 3 - 16 Φ 4 - 20 Φ	300 X 500 4 - 16 Φ 3 - 12 Φ 3 - 12 Φ 4 - 16 Φ	420, 220 145, 220 8 TOR @ 200 C/C
C18,C21,C23,C27	300 X 500 6 - 20 Φ 6 - 20 Φ	300 X 500 4 - 20 Φ 2 - 16 Φ 2 - 16 Φ 4 - 20 Φ	300 X 500 4 - 16 Φ 2 - 12 Φ 2 - 12 Φ 4 - 16 Φ	420, 220 94, 220 8 TOR @ 200 C/C
C1,C4,C22,C26	300 X 500 5 - 20 Φ 5 - 20 Φ	300 X 500 2 - 20 Φ 3 - 16 Φ 3 - 16 Φ 2 - 20 Φ	300 X 500 2 - 16 Φ 3 - 12 Φ 3 - 12 Φ 2 - 16 Φ	420, 220 8 TOR @ 200 C/C
C2,C5,C16,C31	300 X 500 5 - 16 Φ 5 - 16 Φ	300 X 500 2 - 16 Φ 3 - 12 Φ 3 - 12 Φ 2 - 16 Φ	300 X 500 5 - 12 Φ 5 - 12 Φ	420, 220 8 TOR @ 200 C/C
C3,C7,C15,C30	300 X 500 4 - 16 Φ 4 - 16 Φ	300 X 500 2 - 16 Φ 2 - 12 Φ 2 - 12 Φ 2 - 16 Φ	300 X 500 4 - 12 Φ 4 - 12 Φ	420, 220 8 TOR @ 200 C/C
C6,C8,C14,C17,C24, C25,C28,C29,C32	300 X 400 4 - 16 Φ 4 - 16 Φ	300 X 400 2 - 16 Φ 2 - 12 Φ 2 - 12 Φ 2 - 16 Φ	300 X 400 4 - 12 Φ 4 - 12 Φ	320, 220 8 TOR @ 200 C/C

SCHEDULE OF R.C.C. BEAMS

BEAM MKD.	BEAM SECTION	SIZE & REINFORCEMENT AT SUPPORT		STIRRUP AT SUPPORT	SIZE & REINFORCEMENT AT SPAN		STIRRUP AT SPAN
		TOP	BOTTOM		TOP	BOTTOM	
B1	300X500	3 - 20Φ + 3 - 20Φ	3 - 20Φ	8 TOR 2L @ 125 C/C	3 - 20Φ	3 - 20Φ + 2 - 20Φ	8 TOR 2L @ 125 C/C
B2	300X500	2 - 20Φ + 3 - 20Φ	3 - 16Φ	8 TOR 2L @ 125 C/C	2 - 20Φ	3 - 16Φ + 2 - 20Φ	8 TOR 2L @ 125 C/C
B3	300X500	2 - 20Φ + 2 - 20Φ	3 - 16Φ	8 TOR 2L @ 125 C/C	2 - 20Φ	3 - 16Φ + 2 - 16Φ	8 TOR 2L @ 125 C/C
B4	300X500	2 - 16Φ + 2 - 20Φ	3 - 12Φ	8 TOR 2L @ 125 C/C	2 - 16Φ	3 - 12Φ + 2 - 12Φ	8 TOR 2L @ 125 C/C
B5	300X500	2 - 16Φ + 2 - 20Φ	3 - 12Φ	8 TOR 2L @ 125 C/C	2 - 16Φ	3 - 12Φ	8 TOR 2L @ 175 C/C
B6	300X500	3 - 16Φ	3 - 16Φ	8 TOR 2L @ 125 C/C	3 - 16Φ	3 - 16Φ + 2 - 16Φ	8 TOR 2L @ 175 C/C
B7	300X500	2 - 16Φ	2 - 16Φ	8 TOR 2L @ 175 C/C	2 - 16Φ	2 - 16Φ	8 TOR 2L @ 175 C/C
B8	300X500	4 - 20Φ	3 - 12Φ	8 TOR 2L @ 125 C/C	4 - 20Φ	3 - 12Φ	8 TOR 2L @ 125 C/C
TB1	300X400	3 - 16Φ + 2 - 16Φ	3 - 16Φ	8 TOR 2L @ 125 C/C	3 - 16Φ	3 - 16Φ + 2 - 16Φ	8 TOR 2L @ 125 C/C
TB2	300X400	2 - 16Φ + 2 - 16Φ	2 - 16Φ	8 TOR 2L @ 125 C/C	2 - 16Φ	2 - 16Φ + 2 - 16Φ	8 TOR 2L @ 125 C/C
TB3	300X400	2 - 16Φ + 2 - 16Φ	2 - 16Φ	8 TOR 2L @ 175 C/C	2 - 16Φ	2 - 16Φ	8 TOR 2L @ 175 C/C
TB4	300X400	2 - 16Φ	2 - 16Φ	8 TOR 2L @ 125 C/C	2 - 16Φ	2 - 16Φ	8 TOR 2L @ 125 C/C

SCHEDULE OF ISOLATED FOUNDATIONS

FDN. MKD.	UNDER COLUMN	SIZE OF FOUNDATION	THICKNESS (MM)		REINFORCEMENT BOTHWAYS AT BOTTOM
			AT HEEL	AT TOE	
F2	C11,C12,C13	3250X3250	750	450	12 TOR @ 75 C/C
F3	C20	3050X3050	750	450	12 TOR @ 75 C/C
F4	C21	3050X2550	750	450	12 TOR @ 75 C/C
F5	C18,C19,C23	2900X2900	750	450	12 TOR @ 125 C/C
F6	C4,C22,C26,C27	2800X2800	750	450	12 TOR @ 125 C/C
F7	C1,C5,C7, C16,C30,C31	2550X2550	600	300	12 TOR @ 125 C/C
F8	C2,C3, C15,C28,C29	2250X2250	600	300	12 TOR @ 175 C/C
F9	C17,C24	2050X2050	600	300	12 TOR @ 175 C/C
F10	C6,C25,C32	1850X1850	600	300	12 TOR @ 200 C/C
F11	C8,C14	1450X1450	600	300	12 TOR @ 200 C/C

SCHEDULE OF R .C.C. SLABS

SLAB MKD	THICKNESS (mm)	REINFORCEMENT PARALLEL TO SHORTER DIRECTION		REINFORCEMENT PARALLEL TO LONGER DIRECTION	
		AT MIDDLE SPAN	AT END SPAN	AT MIDDLE SPAN	AT END SPAN
S1	150	8Φ @ 150 c/c (bott.)	8Φ @ 150 c / c (top) 8Φ @ 300 c / c (bott.)	8Φ @ 150 c/c (bott.)	8Φ @ 150 c / c (top & bott.)
S2	125	8Φ @ 150 c/c (bott.)	8Φ @ 150 c / c (top) 8Φ @ 300 c / c (bott.)	8Φ @ 150 c/c (bott.)	8Φ @ 150 c / c (top & bott.)
S3	100	8Φ @ 200 c/c (bott.)	8Φ @ 200 c / c (top) 8Φ @ 400 c / c (bott.)	8Φ @ 200 c/c (bott.)	8Φ @ 200 c / c (top & bott.)
S4	200	8Φ @ 100 c / c (top) 8Φ @ 200 c / c (bott.)	8Φ @ 100 c / c (top) 8Φ @ 200 c / c (bott.)	8Φ @ 200 c / c (top & bott.)	8Φ @ 200 c / c (top & bott.)
S5	150	8Φ @ 100 c / c (top) 8Φ @ 200 c / c (bott.)	8Φ @ 100 c / c (top) 8Φ @ 200 c / c (bott.)	8Φ @ 200 c / c (top & bott.)	8Φ @ 200 c / c (top & bott.)
S6	150	8Φ @ 200 c / c(binder.)	8Φ @ 200 c / c(binder.)	12Φ @ 150 c / c(bott.)	12Φ @ 150 c / c (top) 12Φ @ 300 c / c (bott.)

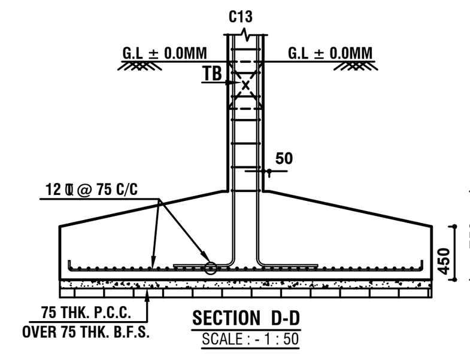
SCHEDULE OF COMBINED FOUNDATIONS

FDN. MKD.	UNDER COLUMN	SIZE OF FDN.	SLAB DIMENSIONS (a) M	(b) M	(B) M	(D) MM	INVERTED RIB BEAM: BEAM SIZE (MM X MM)	LONG REINFORCEMENT AT SUPPORT: TOP	LONG REINFORCEMENT AT SUPPORT: BOTTOM	LONG REINFORCEMENT AT SPAN: TOP	LONG REINFORCEMENT AT SPAN: BOTTOM	STIRRUP	FOOTING: TRANSVERSE REINFORCEMENT (BOTTOM)	FOOTING: LONG REINFORCEMENT (BOTTOM)
F1	C9+C10	3150 X 7500	2.25 AT C9	2.25 AT C10	3.15	600 TO 300	750 X 1200	8 - 20Φ	8 - 20Φ + 7 - 20Φ	8 - 20Φ	8 - 20Φ	10Φ 4L@ 125 c / c	12Φ @ 75 c/c	8Φ @ 200 c/c

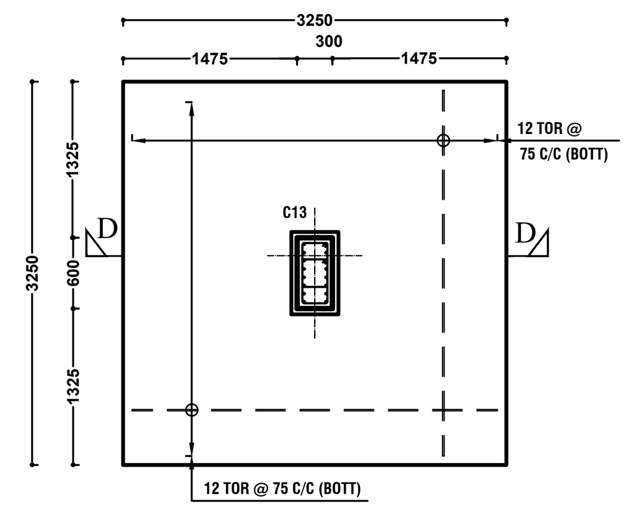
SPECIFICATIONS

1. DEPTH OF FOUNDATION IS AT 2.0 M. BELOW EXISTING G.L.
2. SAFE BEARING CAPACITY OF SOIL IS AS PER SOIL TEST REPORT
3. FOUNDATIONS MUST BE PLACED WITH RESPECT TO THE CENTRE OF THE COLUMNS.
4. GRADE OF CONCRETE IS M-20 (1 : 1.5 : 3, NOMINAL MIX) AND GRADE OF STEEL IS Fe-500.
5. CLEAR COVER TO MAIN REINFORCEMENT IS AS PER BELOW :-
   a) FOUNDATION - 75 MM
   b) COLUMN - 40 MM
   c) BEAM - 25 MM
   d) SLAB - 20 MM
6. ALL SLABS MUST BE MONOLYTHIC WITH SUPPORTING BEAM.
7. ALL OTHER SPECIFICATIONS AS PER NATIONAL BUILDING CODE OF INDIA

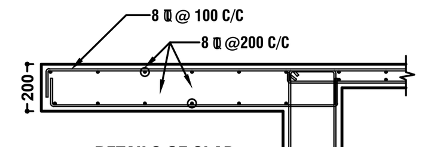
THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C. OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT.



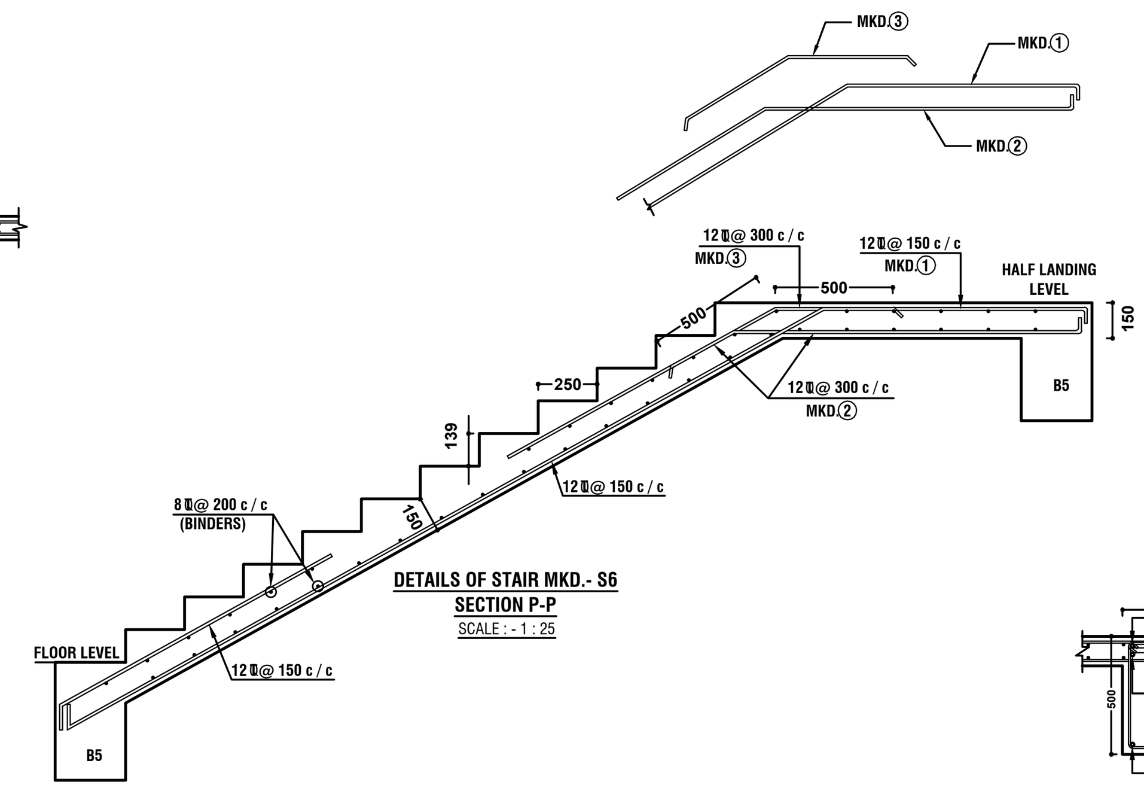
SECTION D-D
SCALE : - 1 : 50



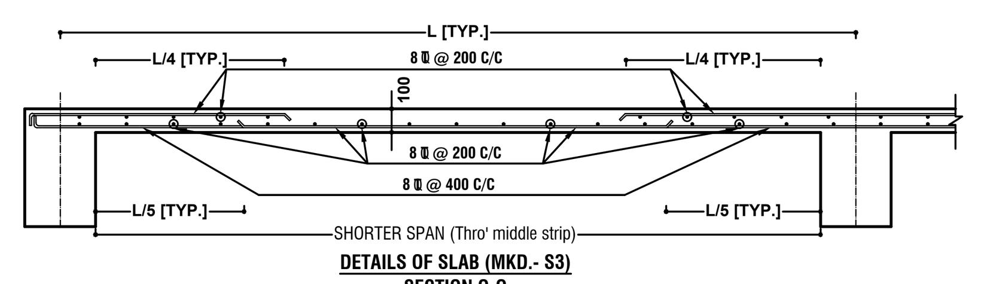
DETAILS OF ISOLATED FOUNDATION (F2)
SCALE : - 1 : 50



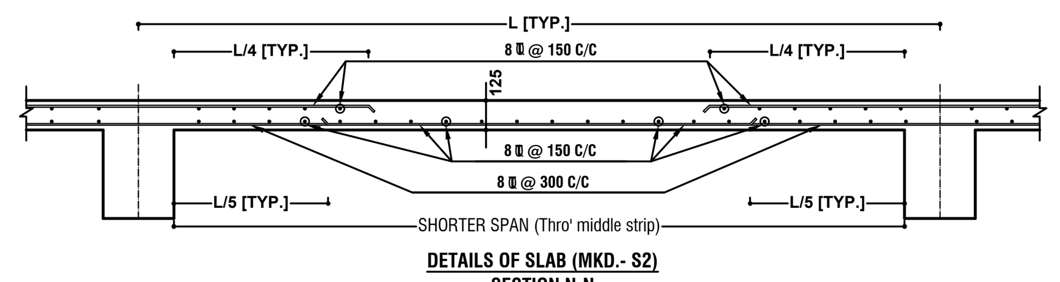
DETAILS OF SLAB MKD.- S4
SCALE : - 1 : 25



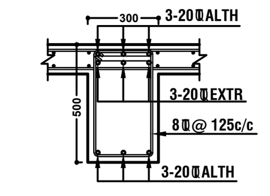
DETAILS OF STAIR MKD.- S6
SECTION P-P
SCALE : - 1 : 25



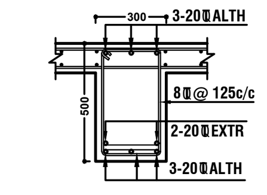
DETAILS OF SLAB (MKD.- S3)
SECTION O-O
SCALE : - 1 : 25



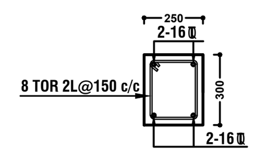
DETAILS OF SLAB (MKD.- S2)
SECTION N-N
SCALE : - 1 : 25



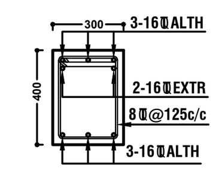
SECTION AT 1-1
AT SUPPORT
SCALE : - 1 : 25



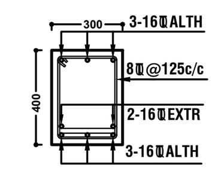
SECTION AT 2-2
AT SPAN
SCALE : - 1 : 25



DETAILS OF TOE BEAM
SCALE : - 1 : 25



SECTION AT 3-3
AT SUPPORT
SCALE : - 1 : 25



SECTION AT 4-4
AT SPAN
SCALE : - 1 : 25

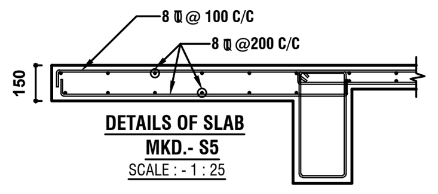
SIGNATURE OF L.B.S/ARCHITECT

SIGNATURE OF GEO-TECHNICAL ENGINEER

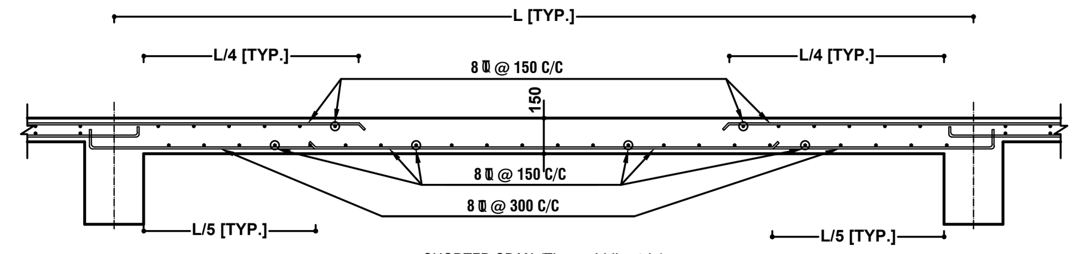
SIGNATURE OF OWNER

STRUCTURAL DRAWING OF A PROPOSED G+IV STORIED RESIDENTIAL BUILDING AT R.S PLOT.NO.-174 (P), L.R. PLOT NO.- 146 (P), J.L. NO.- 113, SUB PLOT NO.- 6 & 7 ; MOUZA- PARULIA, P.S.- DURGAPUR, DIST.- PASCHIM BARDHAMAN, RC-31/76 , BENGAL AMBUJA, CITY CENTRE, DURGAPUR, PIN- 713216.

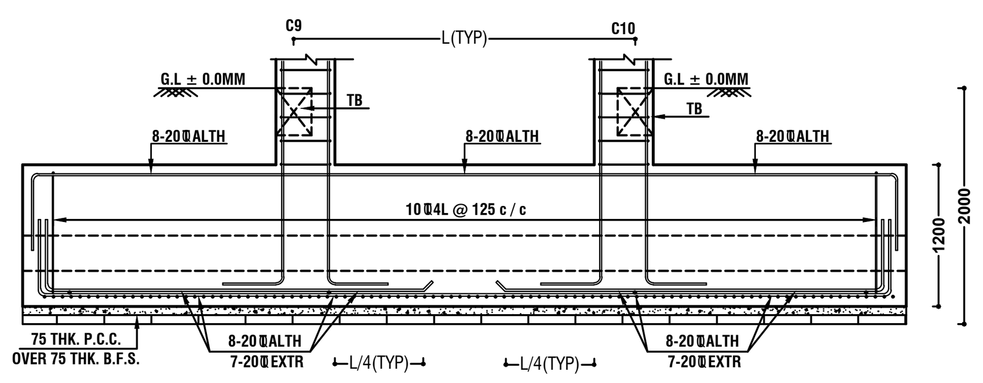
PAGE SIZE - 1080 X 720



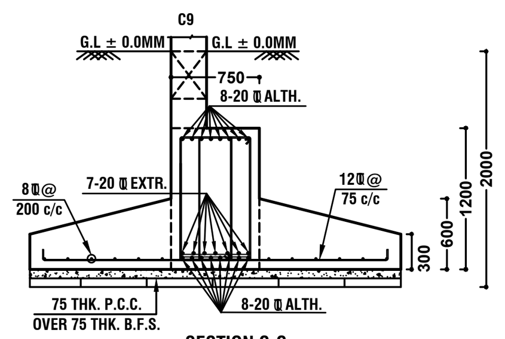
DETAILS OF SLAB MKD.- S5
SCALE : - 1 : 25



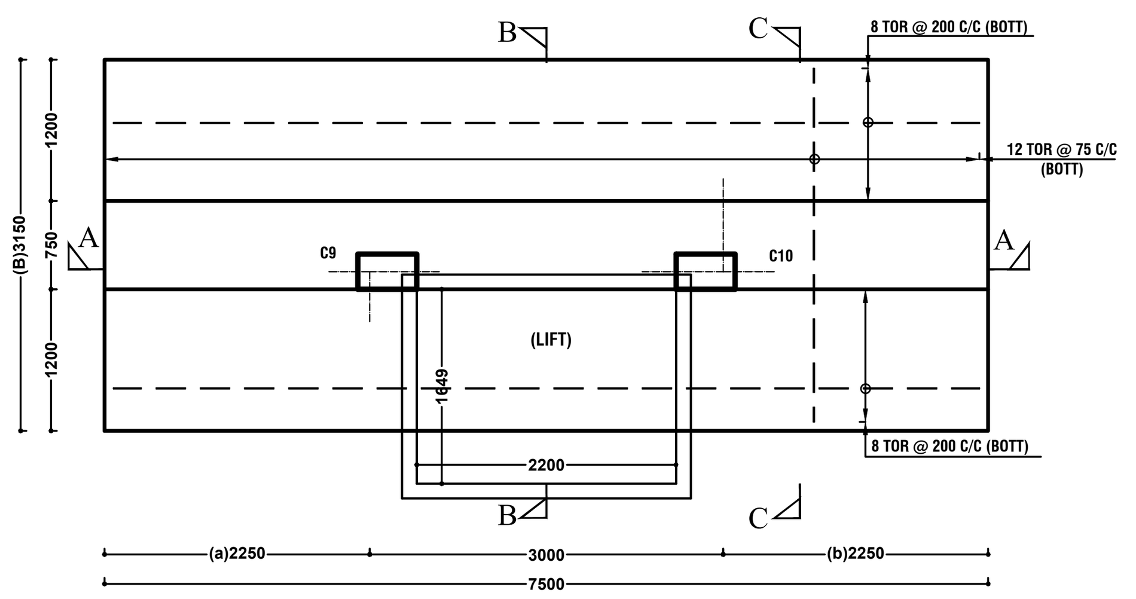
DETAILS OF SLAB (MKD.- S1)
SECTION M-M
SCALE : - 1 : 25



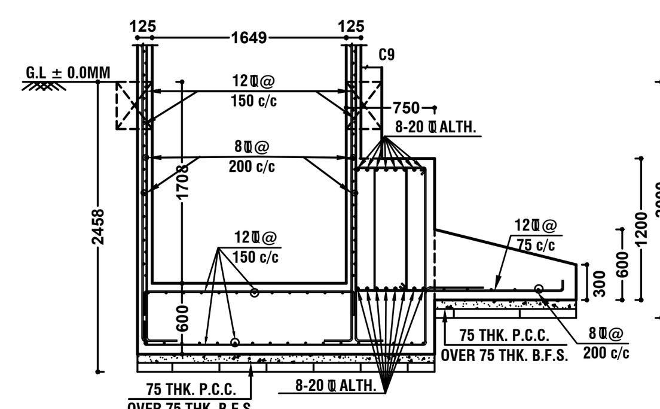
LONG SECTION DETAILS AT A-A
SCALE : - 1 : 50



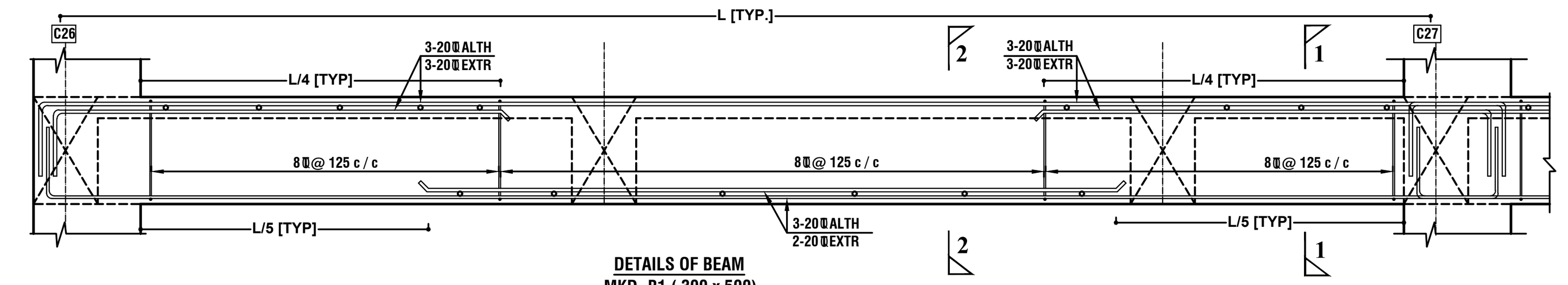
SECTION C-C
AT SUPPORT
SCALE : - 1 : 50



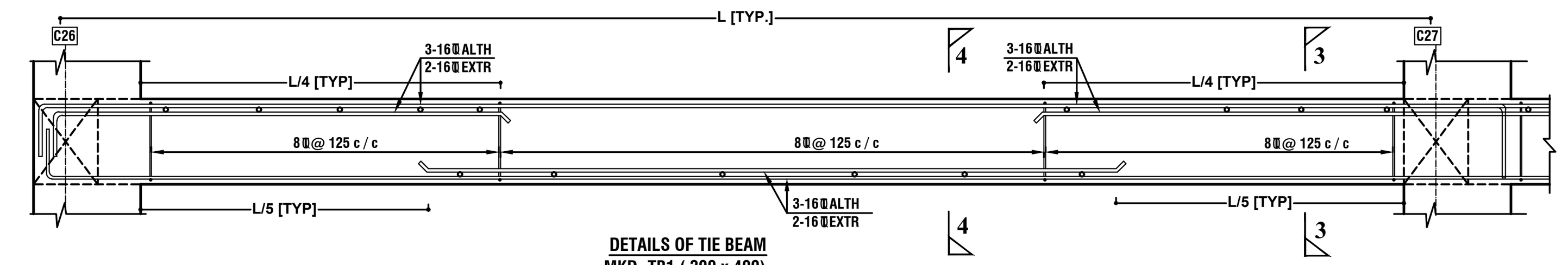
DETAILS OF COMBINED FOUNDATION MKD.- F1
SCALE : - 1 : 50



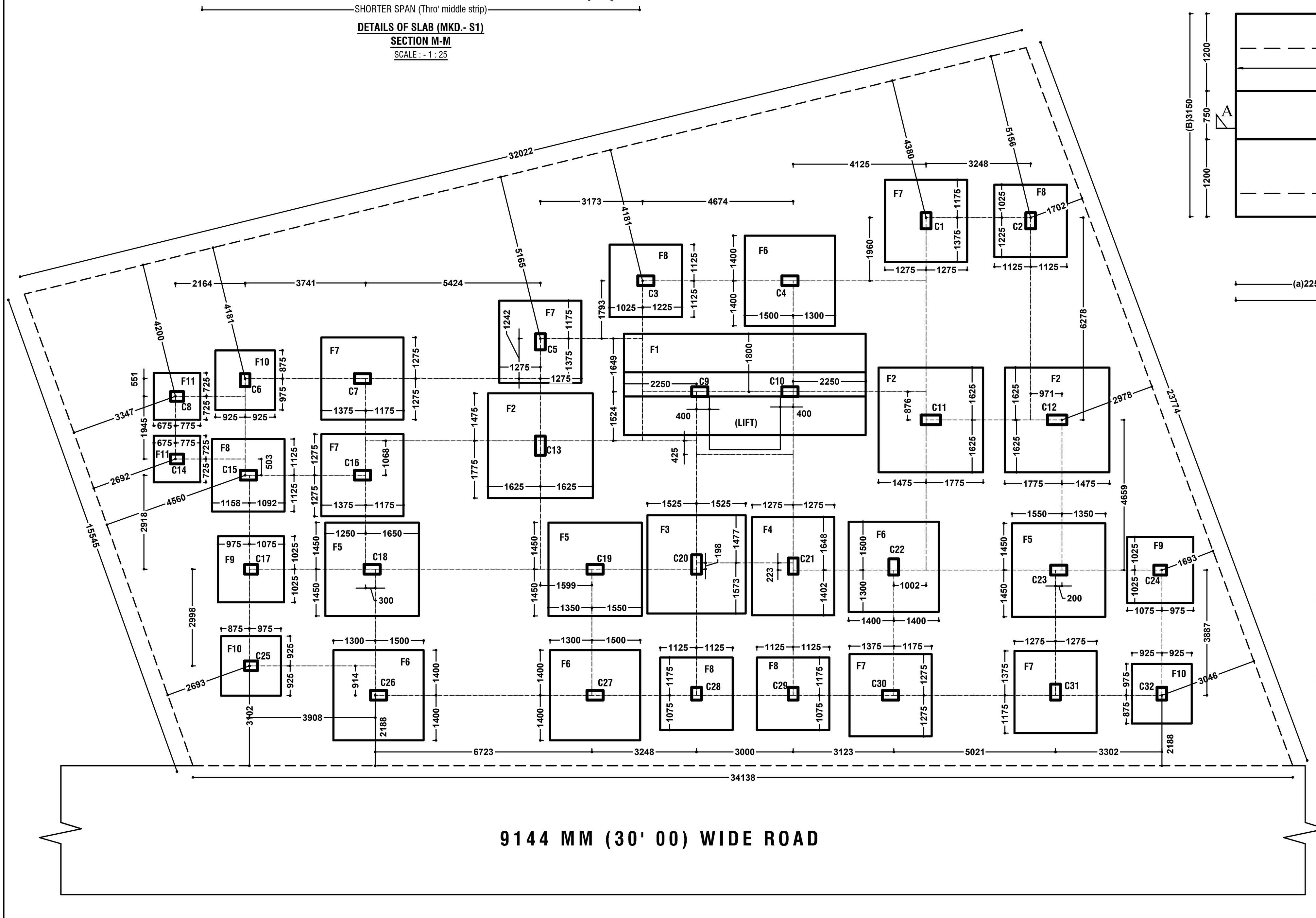
SECTION B-B
AT SPAN
SCALE : - 1 : 50



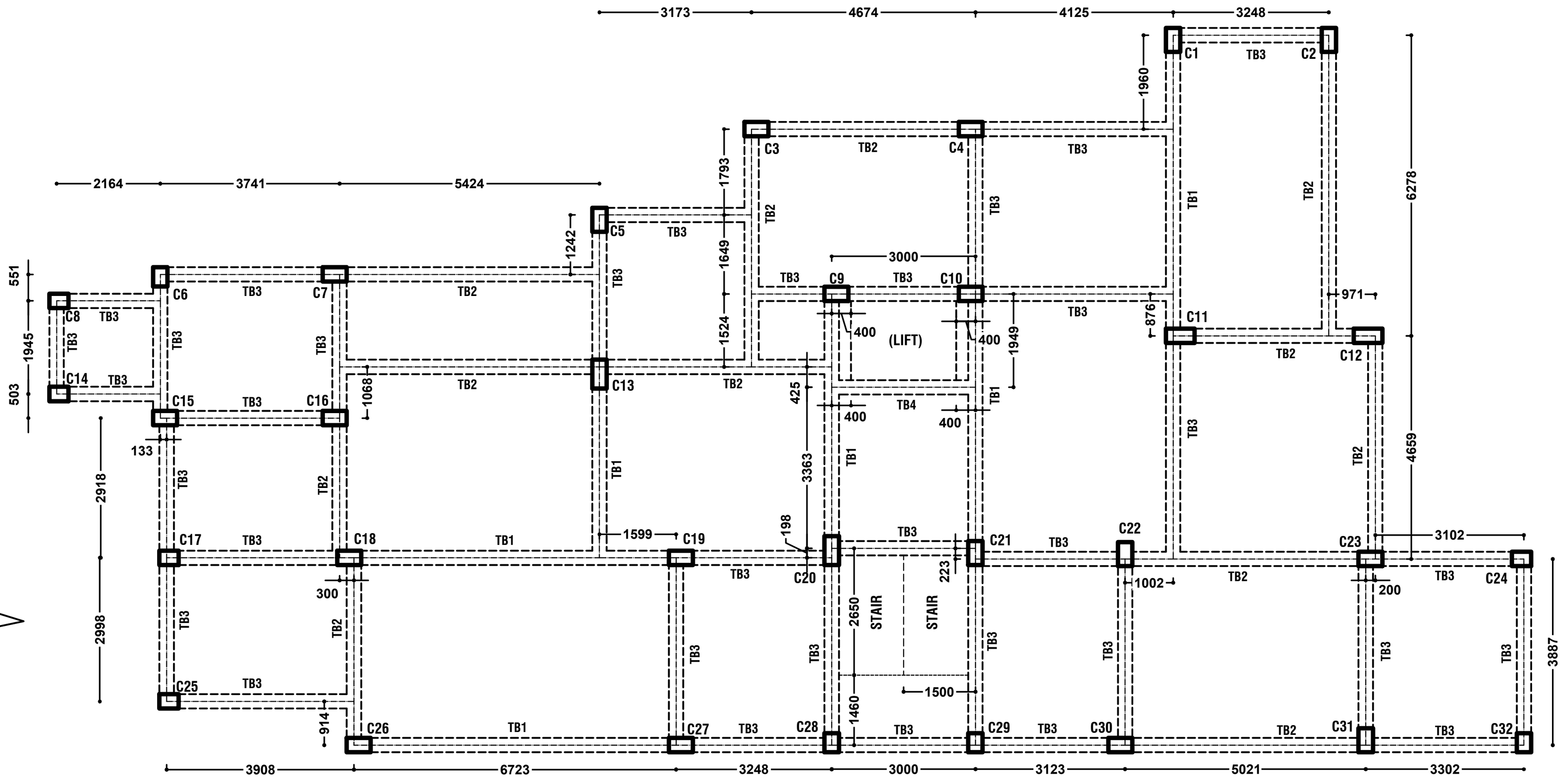
DETAILS OF BEAM
MKD -B1 (300 x 500)
SCALE : - 1 : 25



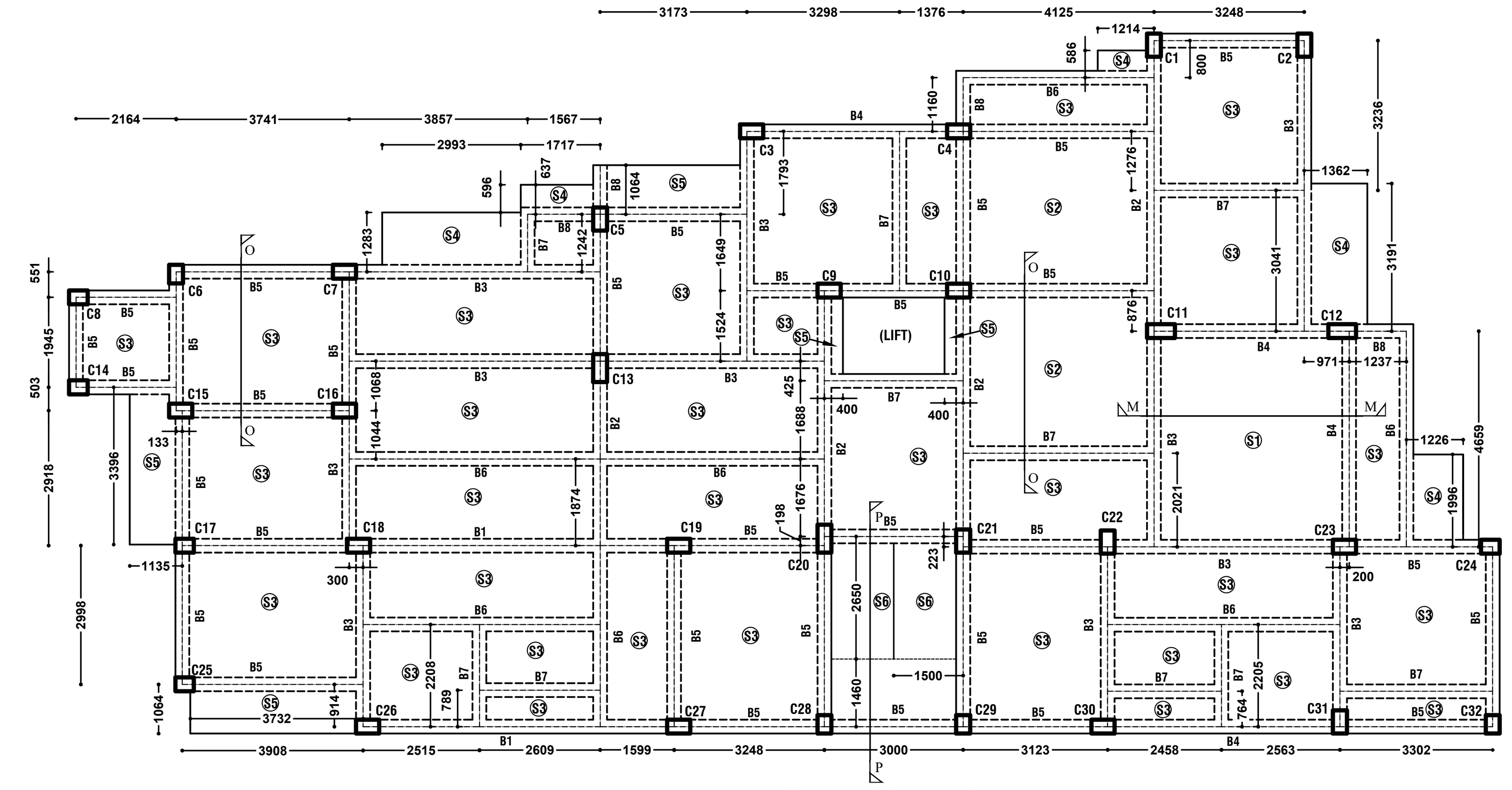
DETAILS OF TIE BEAM
MKD -TB1 (300 x 400)
SCALE : - 1 : 25



FOUNDATION & COLUMN LAYOUT PLAN.
SCALE : - 1 : 100



TIE BEAM LAYOUT PLAN.
SCALE : - 1 : 100



TYPICAL FLOOR BEAM & SLAB LAYOUT PLAN AT 1ST TO ROOF FLOOR LEVEL.
SCALE : - 1 : 100