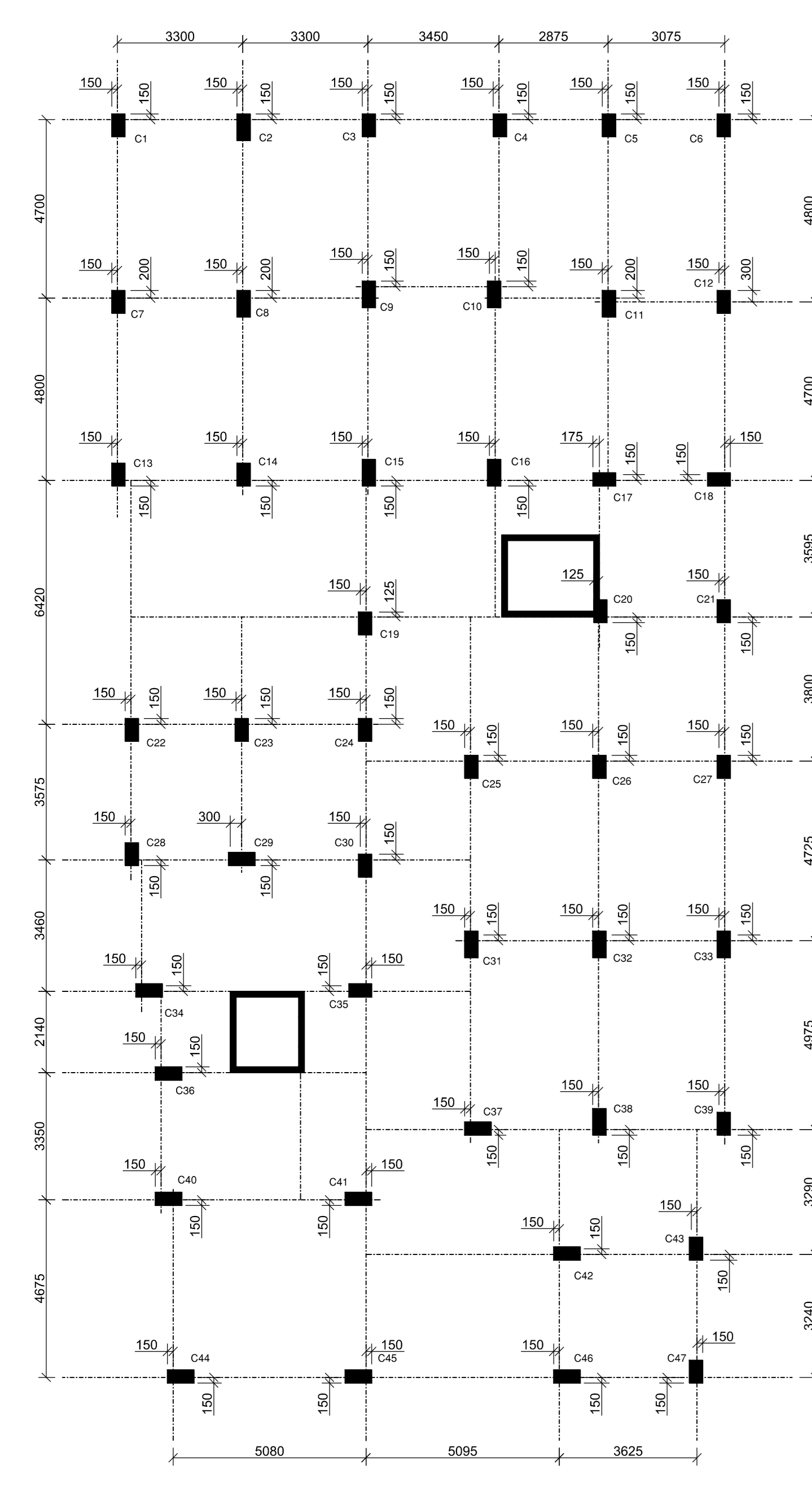


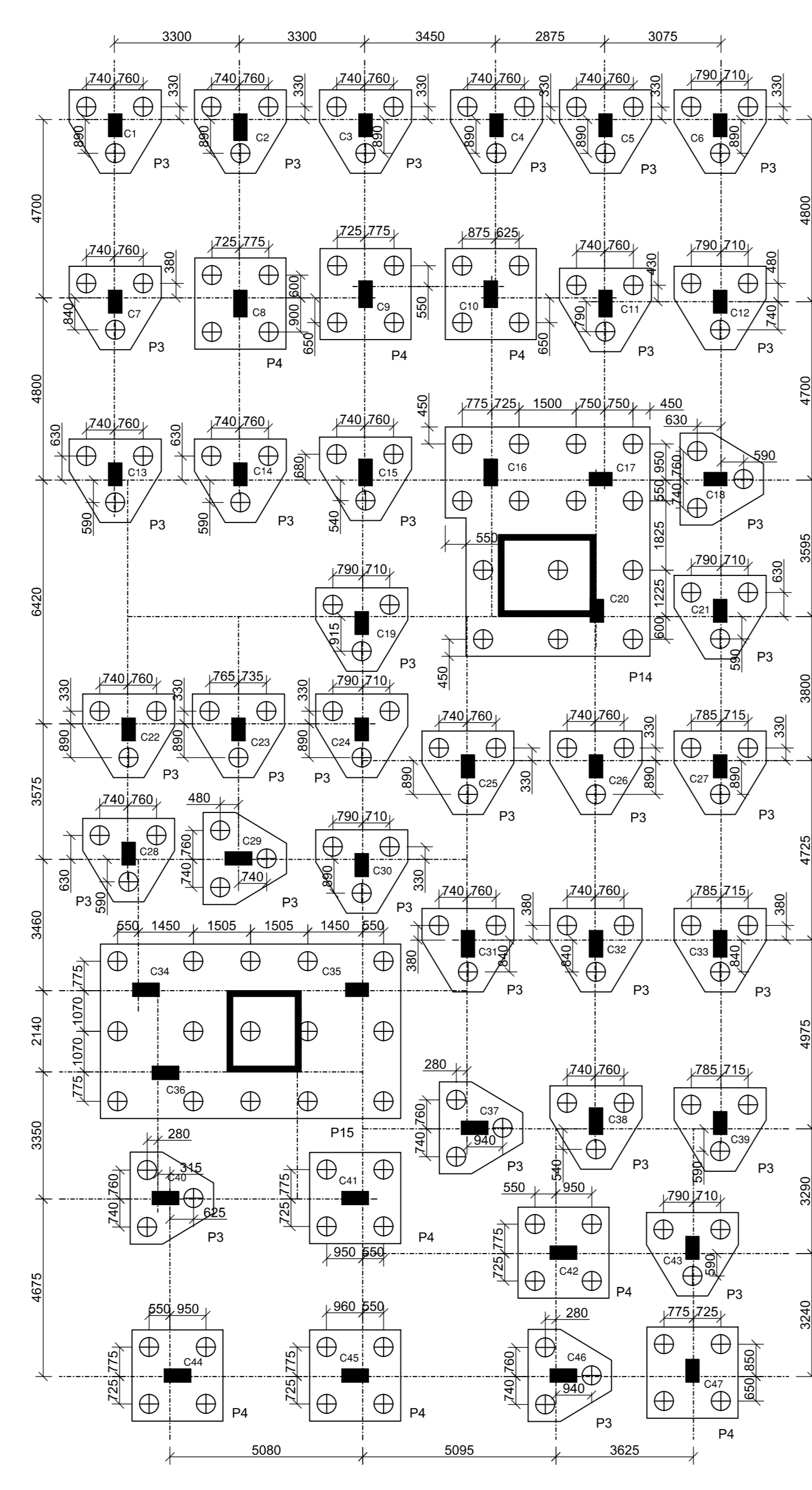
NOTES :-

- A. GENERAL:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.
 - DRAWINGS SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE USED.
 - ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON SOIL AS PER SPECIFICATION, WHEREVER THE SOIL CONTAINS THE SAME SHALL BE REMOVED AND REPLACED WITH THE SAME.
- B. CONCRETE WORK:**
- ALL CONCRETE WORK SHALL BE AS PER IS-456 (LATEST REVISION).
 - ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
 - THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M-25
 - PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
 - 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS, PIT, TRENCHES ETC.
 - M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
 - THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS:

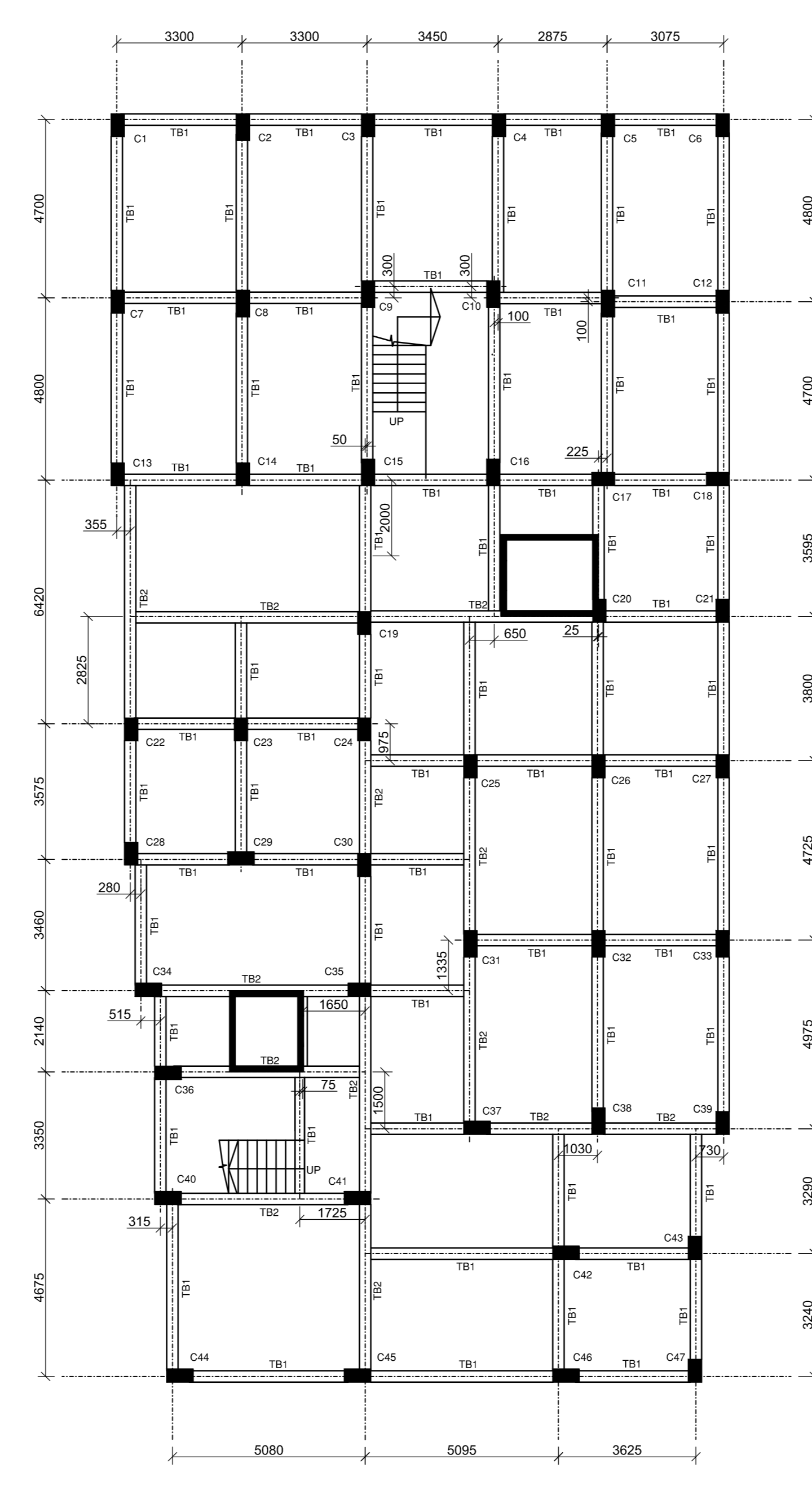
STRUCTURAL ELEMENT	COVER	TOP	BOTTOM	SIDES
a). PLINTH BEAM	25	40	40	40
b). COLUMNS	50	50	50	50
c). SLAB ON GRADE	20	25	25	25
d). FLOOR BEAM	25	25	20	20
e). SLAB	20	20	20	20
f). FOUNDATION	50	50	50	50
- C. REINFORCEMENTS:**
- ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
 - (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS F_{yk} = 500 N/MM², LATEST REVISION) SHALL CONFORM TO IS:1786.
 - LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
 - ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
 - THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-
- | CONCRETE GRADE | DEFORMED BARS TENSION | COMPRESSION |
|----------------|-----------------------|-------------|
| M-25 | 50XD | 40XD |
- LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
 - LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONE.
 - DEVELOPMENT LENGTH (L_d) = 50d OF THE BAR + 10d OF THE BAR.
 - ALL SPACER BARS ARE 20d @ 450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.
 - PILE CAPACITY OF SOIL FOR 450 DIA PILE AT 20M DEPTH COMP 48T, TENS 34T.
 - PILE DESIGN HAS BEEN RECOMMENDED BY CLIENT.
- NOTE:**
- THIS BUILDING HAS BEEN DESIGNED FOR G+12.
- ALL EXTERNAL BRICK WALLS ARE 200MM THICK USED DENSITY 20kN/m³
- ALL INTERNAL BRICK WALLS ARE 125MM THICK USED DENSITY 20kN/m³
- LOAD CONSIDERED NOTE:**
- FLOOR LIVE LOAD = 2.5kN/m² (RESIDENTIAL)
- ACCESS ROOF LIVE LOAD = 1.5kN/m²
- NON ACCESS ROOF LIVE LOAD = 0.75kN/m²
- WATER TANK WITH WATER DEAD LOAD = 2.5kN/m²



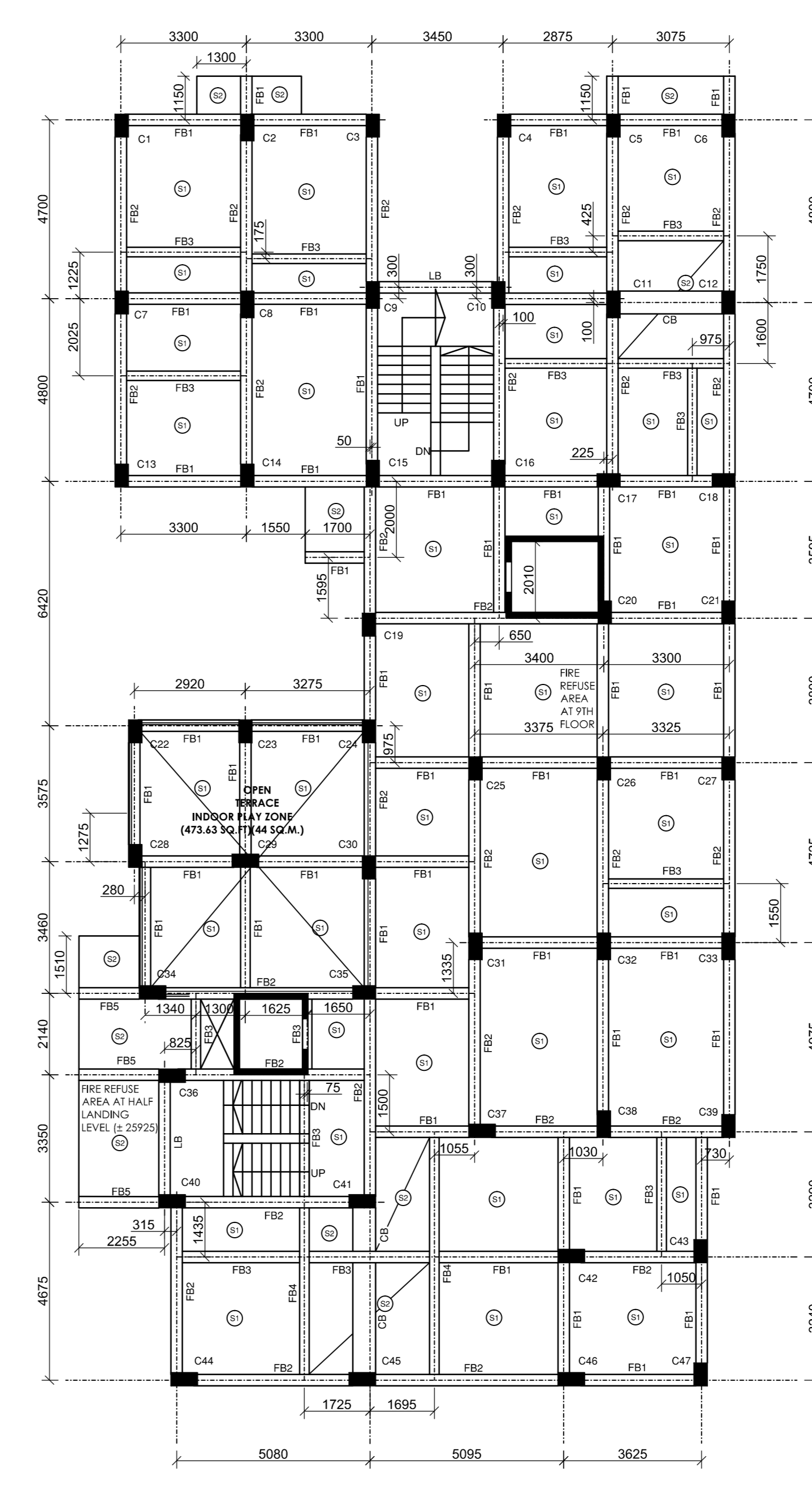
MARKING PLAN OF COLUMN



MARKING PLAN OF PILE AND PILE CAP



MARKING PLAN OF THE BEAM



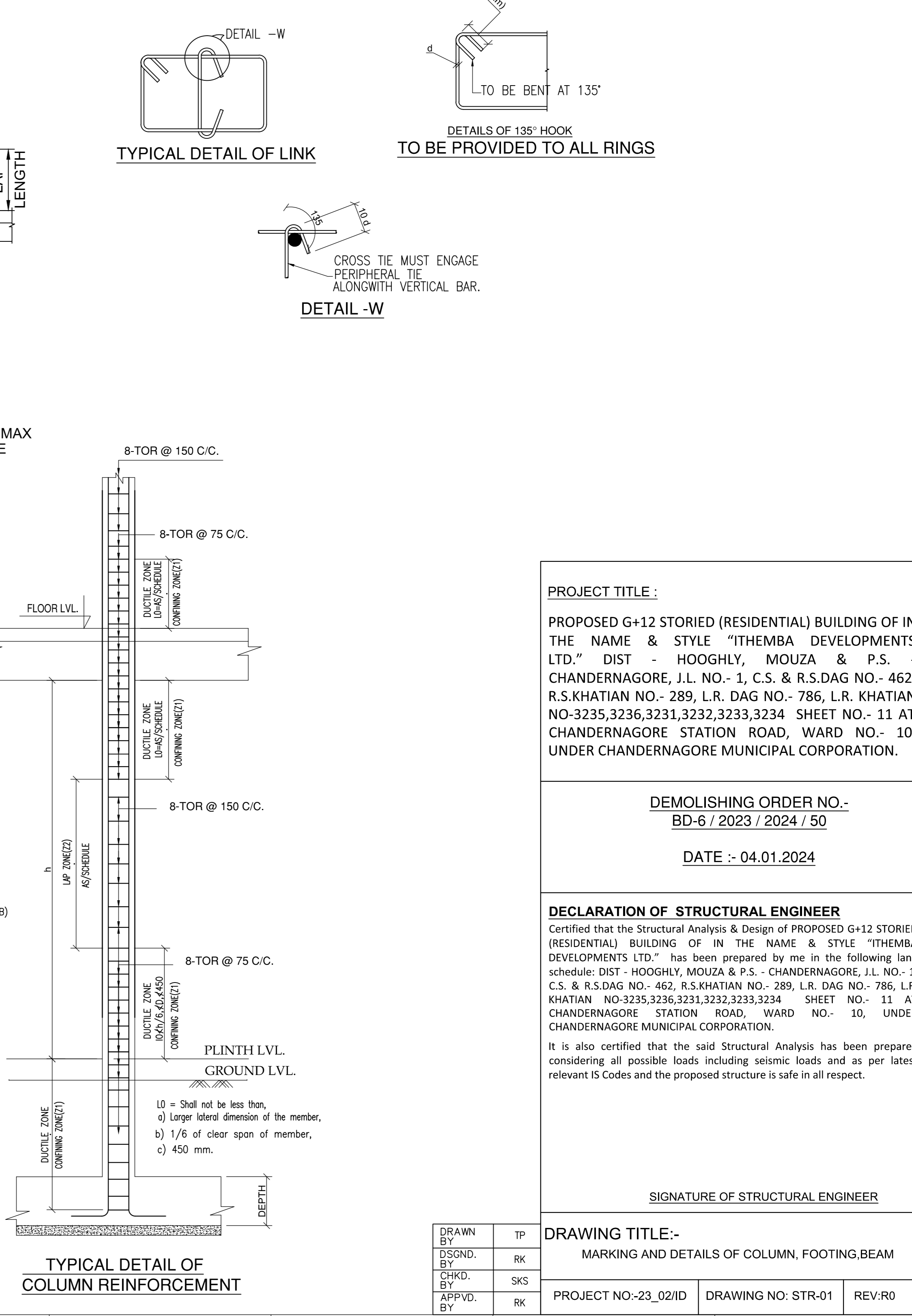
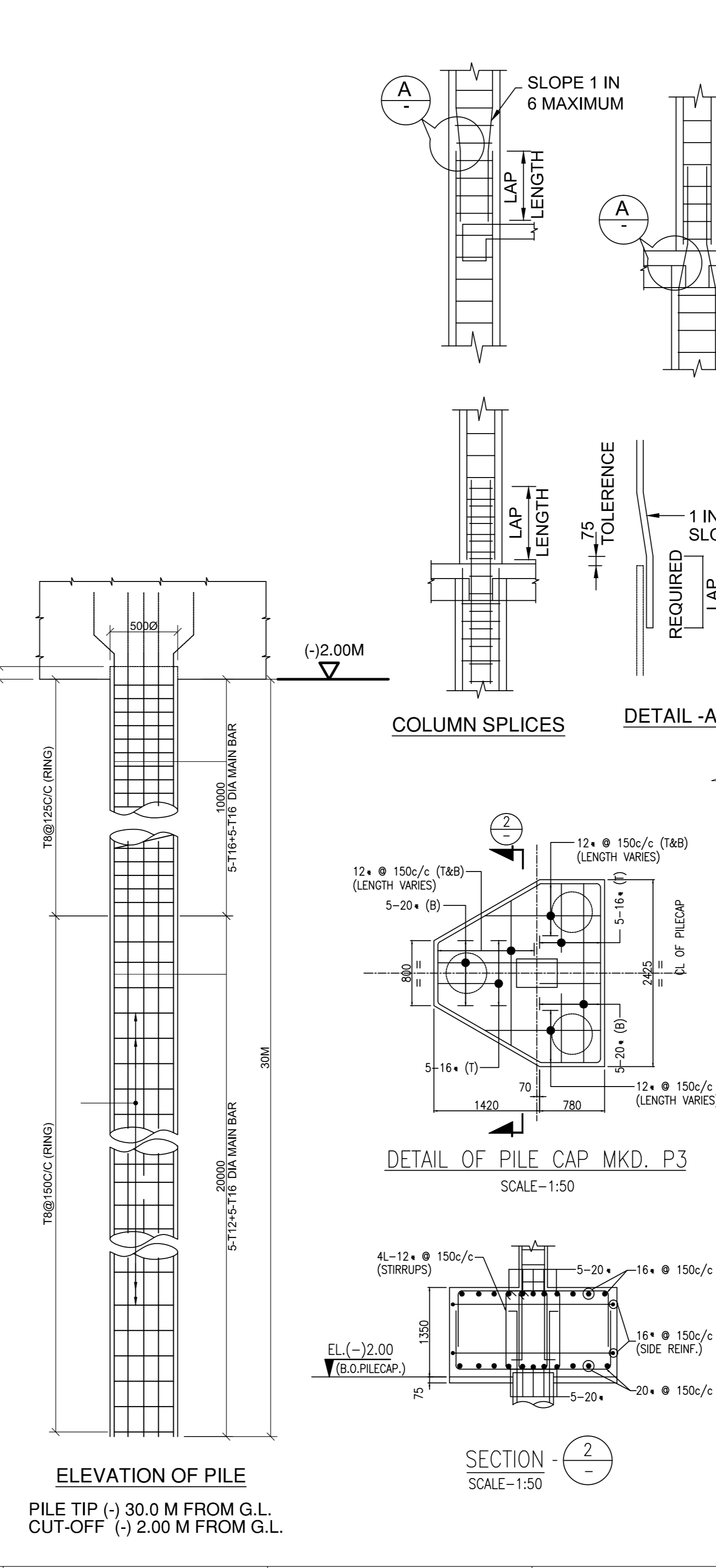
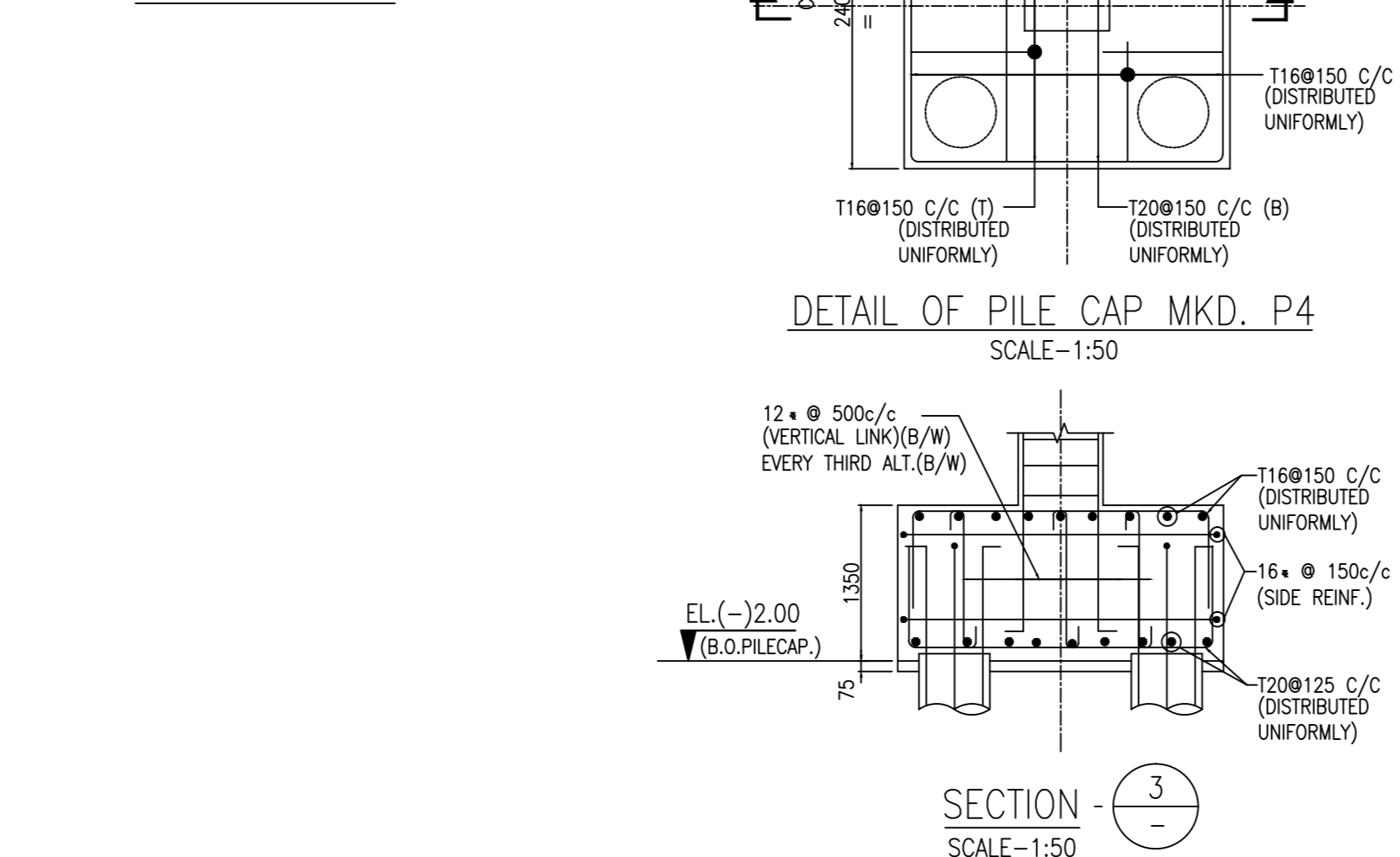
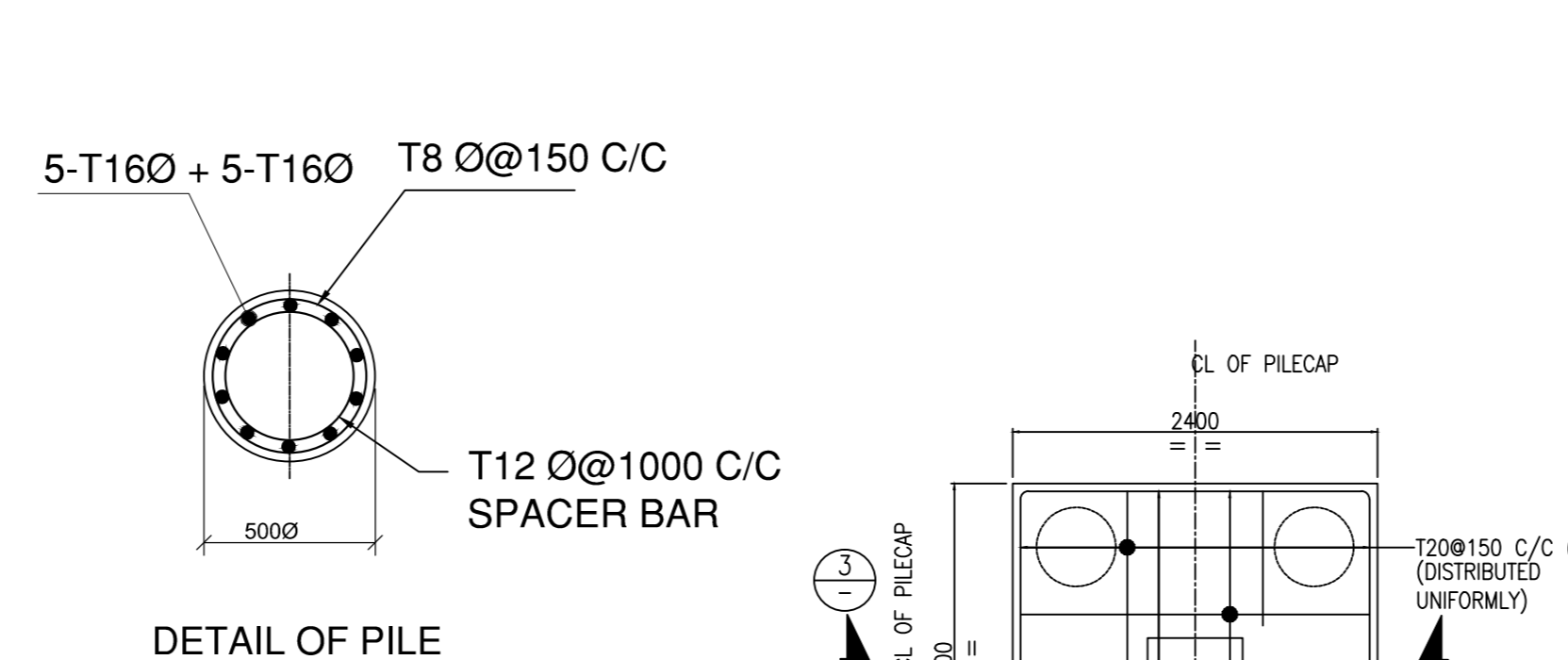
MARKING PLAN OF 1ST, 6TH & 9TH FLOOR BEAM

COLUMN MARKED	M25 - Fe500, COVER = 40mm			M25 - Fe500, COVER = 40mm			M25 - Fe500, COVER = 40mm			M25 - Fe500, COVER = 40mm			M25 - Fe500, COVER = 40mm		
	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS
C13, C18, C19, C21, C22, C23, C24, C27, C28, C30, C35, C47	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150
C1, C3, C4, C6, C39, C43, C12	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150
C7, C17, C20, C25, C26	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150
C8, C9, C10, C11, C15, C16, C29, C31, C32, C34, C36, C37, C38, C40, C41, C42, C45	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150
C2, C3, C4, C46	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150

PILE CAP MARK	PILES	DIMENSIONS			REINFORCEMENT				VERTICAL LINK	SFR
		L	B	D	ALONG L	ALONG B	ALONG L	ALONG B		
P3	3-500 DIA	AS PER DWG	1350	AS PER DWG	AS PER DWG	T12@300C/C	T12@300C/C	T12@300C/C	T12@300C/C	T12@150C/C
P4	4-500 DIA	AS PER DWG	2400	2400	1350	T20@150C/C	T20@150C/C	T16@150C/C	T16@150C/C	T16@150C/C
P14	14-500 DIA	AS PER DWG	1350	AS PER DWG	1350	T20@150C/C	T20@150C/C	T16@150C/C	T16@150C/C	T16@150C/C
P15	15-500 DIA	AS PER DWG	7915	4600	1350	T20@150C/C	T20@150C/C	T16@150C/C	T16@150C/C	T16@150C/C

LEGEND	DIA. OF PILE (mm)	CUT-OFF LEVEL BELOW G.L. (m)	PILE SHAFT LENGTH (m)	PILE CAPACITY		
				COMPRESSION	TENSION	LATERAL
⊕	500 ⌀	(-) 2.00	30.00	72.00	40.00	3.00

BEAM NUMBERS	SIZE	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS
		SUPPORT	SPAN	SUPPORT	SPAN	
TB1	250 x 500	3-T16	3-T16	3-T16 + 2-T16	3-T16	2L-T8@100 C/C
TB2	250 x 500	3-T16	3-T16 + 2-T12	3-T16	3-T16	2L-T8@100 C/C
TB3	250 x 450	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C



PROJECT TITLE:

PROPOSED G+12 STORED (RESIDENTIAL) BUILDING OF IN THE NAME & STYLE 'ITHEMBA DEVELOPMENTS LTD.' DIST - HOOGHLY, MOUZA & P.S. - CHANDERNAGORE, J.L. NO. - 1, C.S. & R.S.DAG NO.- 462, R.S.KHATIAN NO.- 289, L.R. DAG NO.- 786, L.R. KHATIAN NO.-3235,3236,3231,3232,3233,3234 SHEET NO.- 11 AT CHANDERNAGORE STATION ROAD, WARD NO.- 10, UNDER CHANDERNAGORE MUNICIPAL CORPORATION.

DEMOLISHING ORDER NO.:
BD-6 / 2023 / 2024 / 50

DATE :- 04.01.2024

DECLARATION OF STRUCTURAL ENGINEER

Certified that the Structural Analysis & Design of PROPOSED G+12 STORED (RESIDENTIAL) BUILDING OF IN THE NAME & STYLE 'ITHEMBA DEVELOPMENTS LTD.' has been prepared by me in the following land schedule: DIST - HOOGHLY, MOUZA & P.S. - CHANDERNAGORE, J.L. NO. - 1, C.S. & R.S.DAG NO.- 462, R.S.KHATIAN NO.- 289, L.R. DAG NO.- 786, L.R. KHATIAN NO.-3235,3236,3231,3232,3233,3234 SHEET NO.- 11 AT CHANDERNAGORE STATION ROAD, WARD NO.- 10, UNDER CHANDERNAGORE MUNICIPAL CORPORATION.

It is also certified that the said Structural Analysis has been prepared considering all possible loads including seismic loads and as per latest relevant IS codes and the proposed structure is safe in all respect.

SIGNATURE OF STRUCTURAL ENGINEER

DRAWING TITLE:-
MARKING AND DETAILS OF COLUMN, FOOTING BEAM

PROJECT NO.-23_02ID DRAWING NO:- STR-01 REV:R0

DRAWN BY	TP	CHECKED BY	TP
SKS	SKS	SKS	SKS
SKS	SKS	SKS	SKS