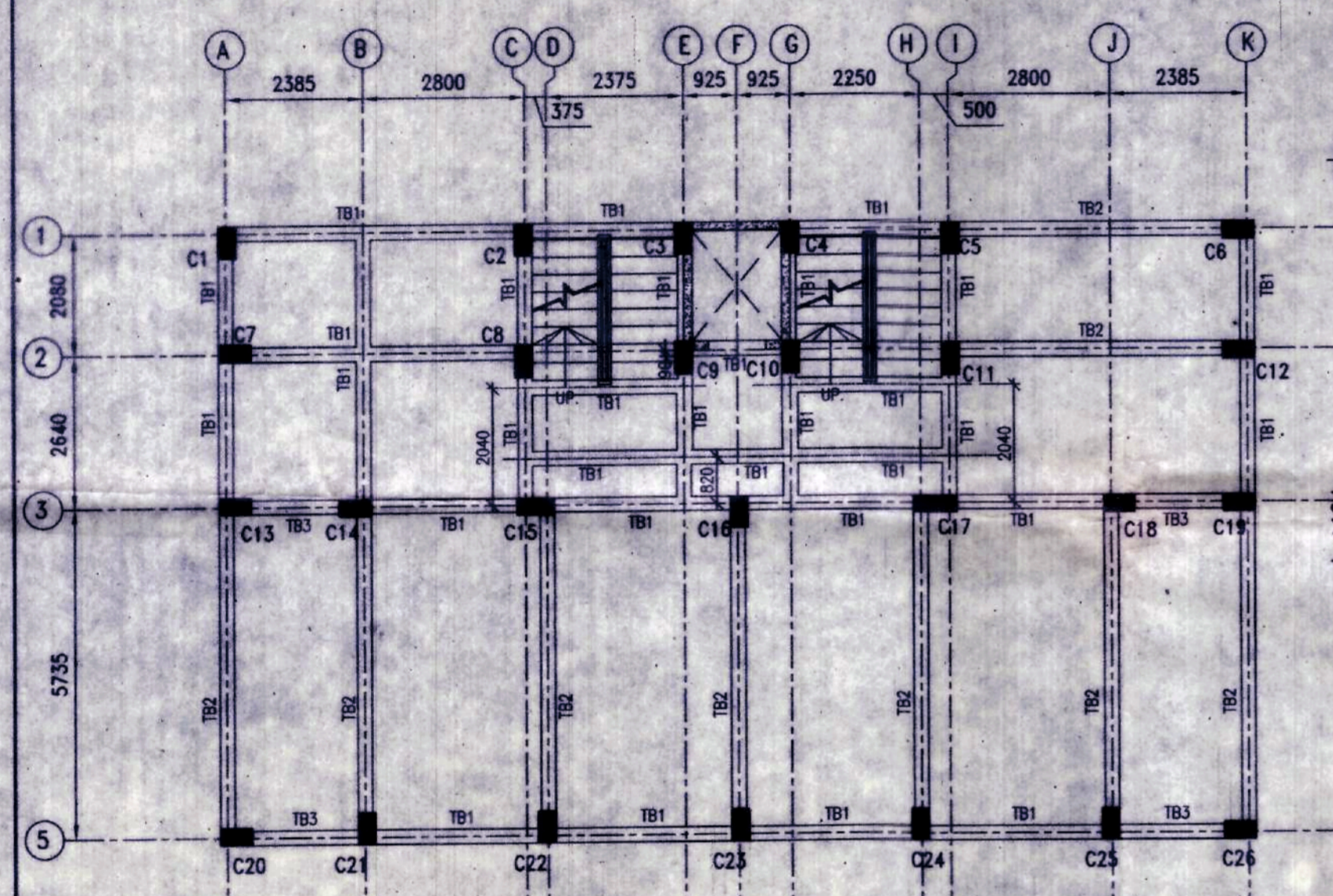
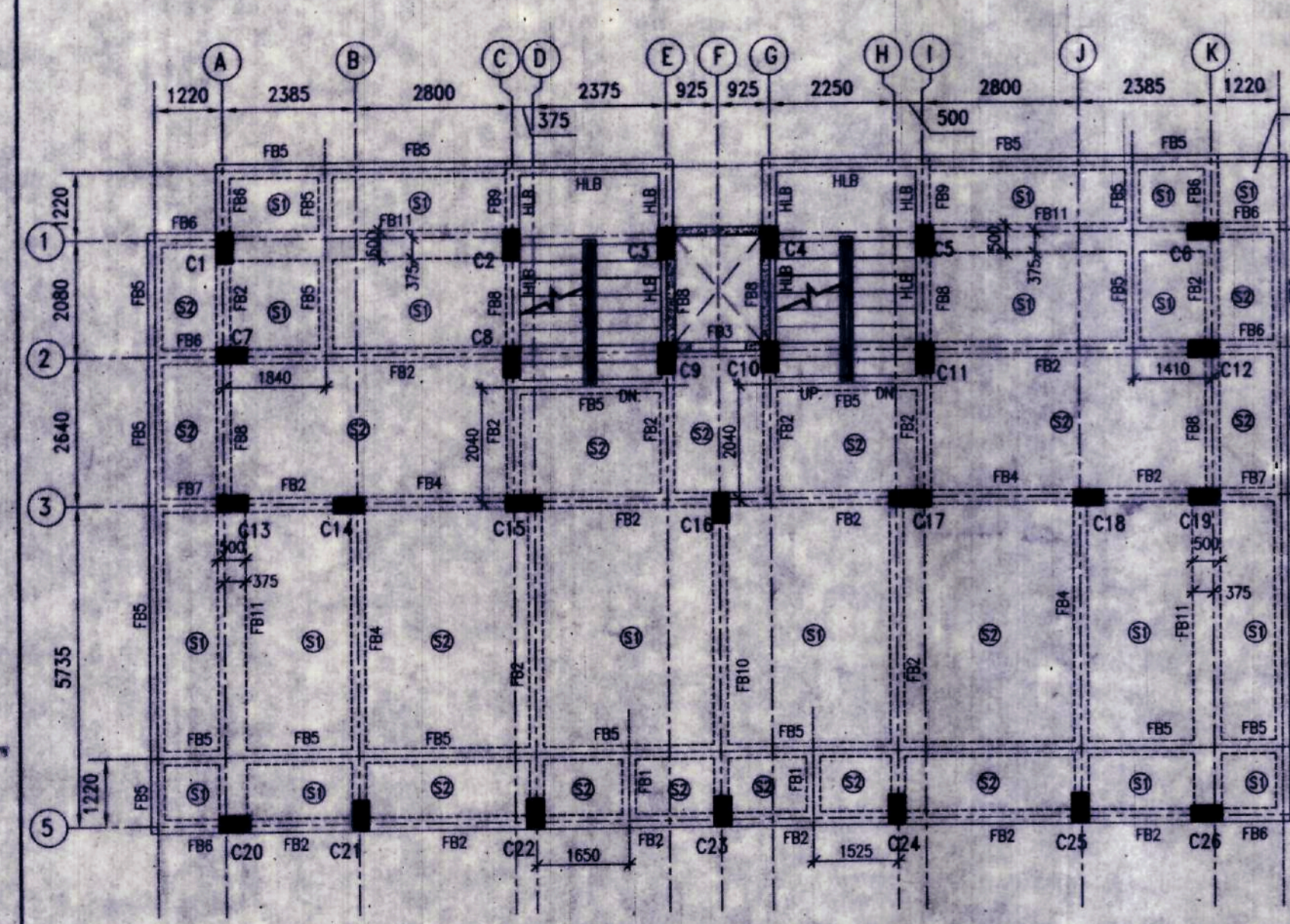


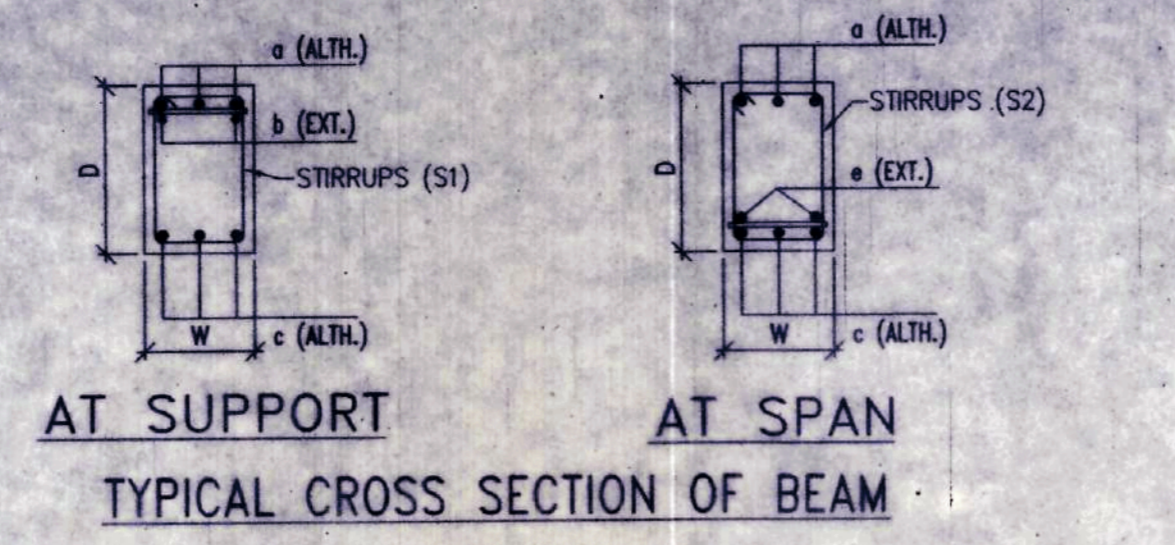
COLUMN LAYOUT PLAN
SCALE-1:100



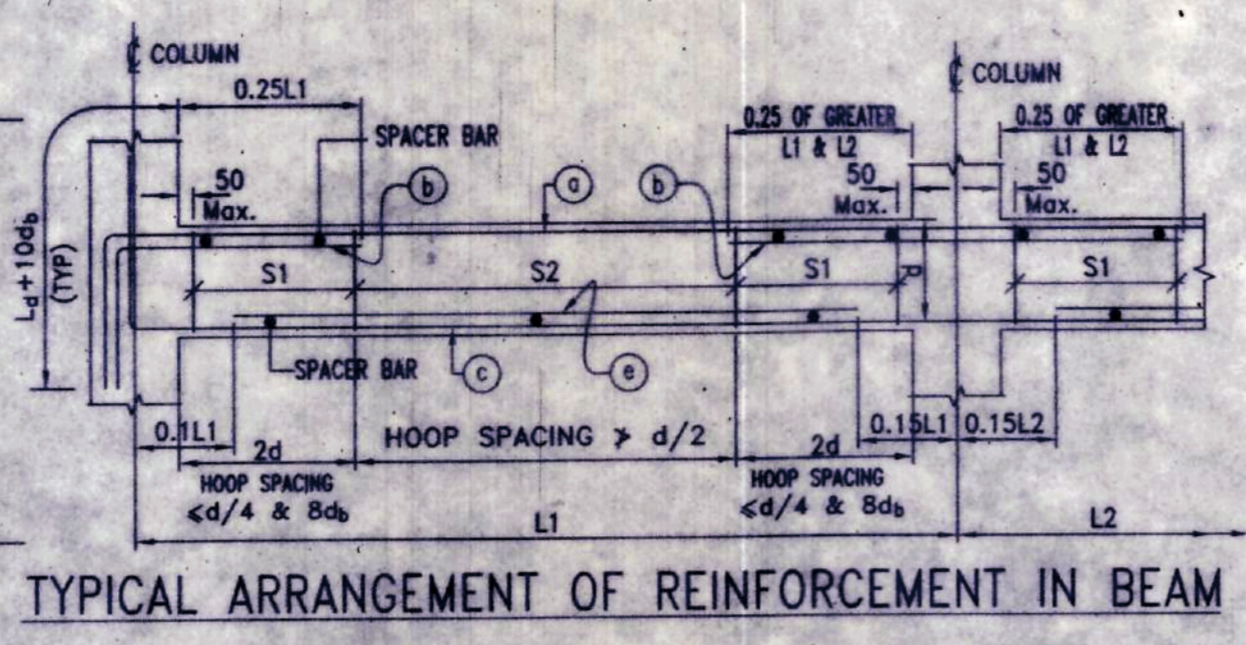
TIE BEAM LAYOUT PLAN AT LEVEL (+)0.00
SCALE-1:100



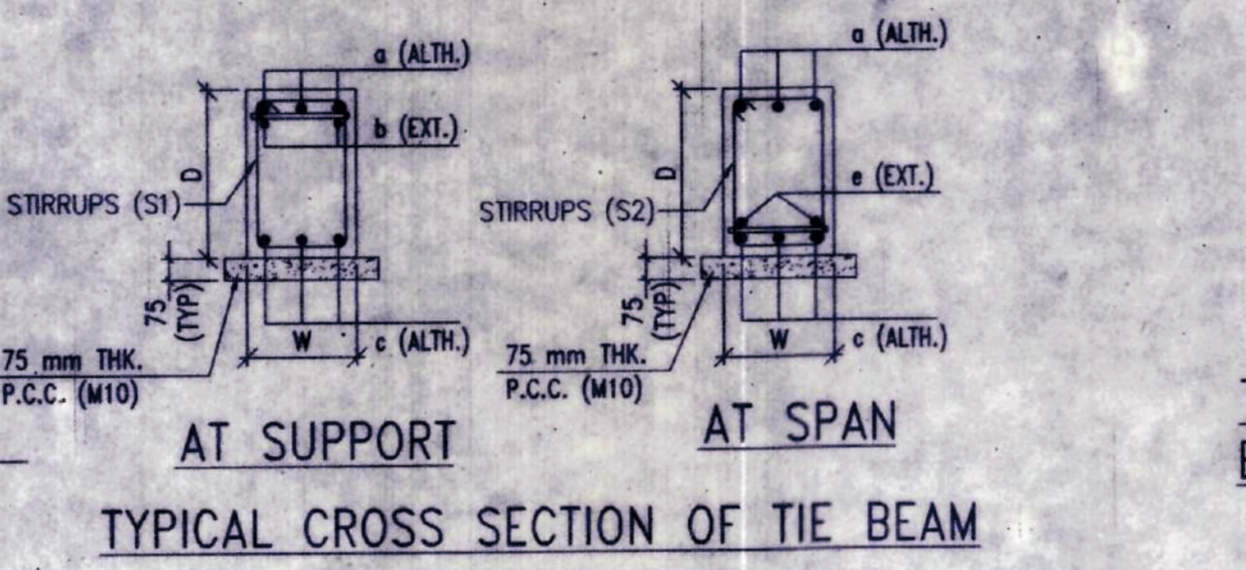
1ST, 2ND & 3RD FLOOR BEAM AND SLAB LAYOUT
PLAN AT LEVEL (+)2.9m, (+)5.8m, (+)8.7m
S1 MARKED SLABS ARE 150 mm THICK
S2 MARKED SLABS ARE 125 mm THICK
HLB REFERS TO HALF LANDING BEAM
SCALE-1:100



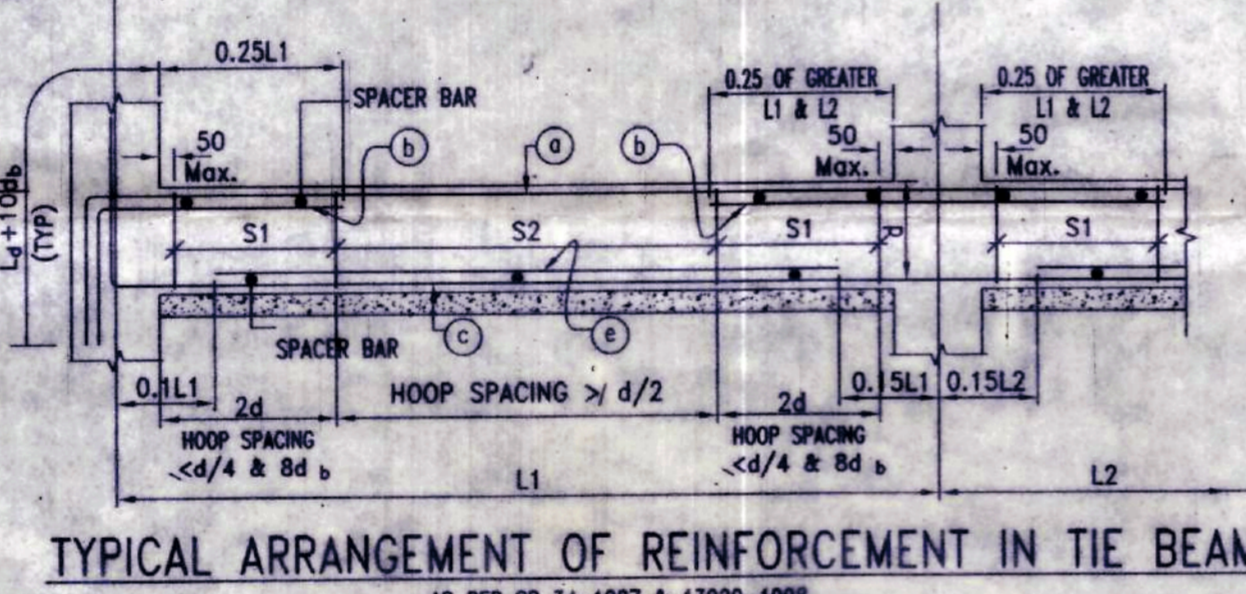
AT SUPPORT AT SPAN
TYPICAL CROSS SECTION OF BEAM



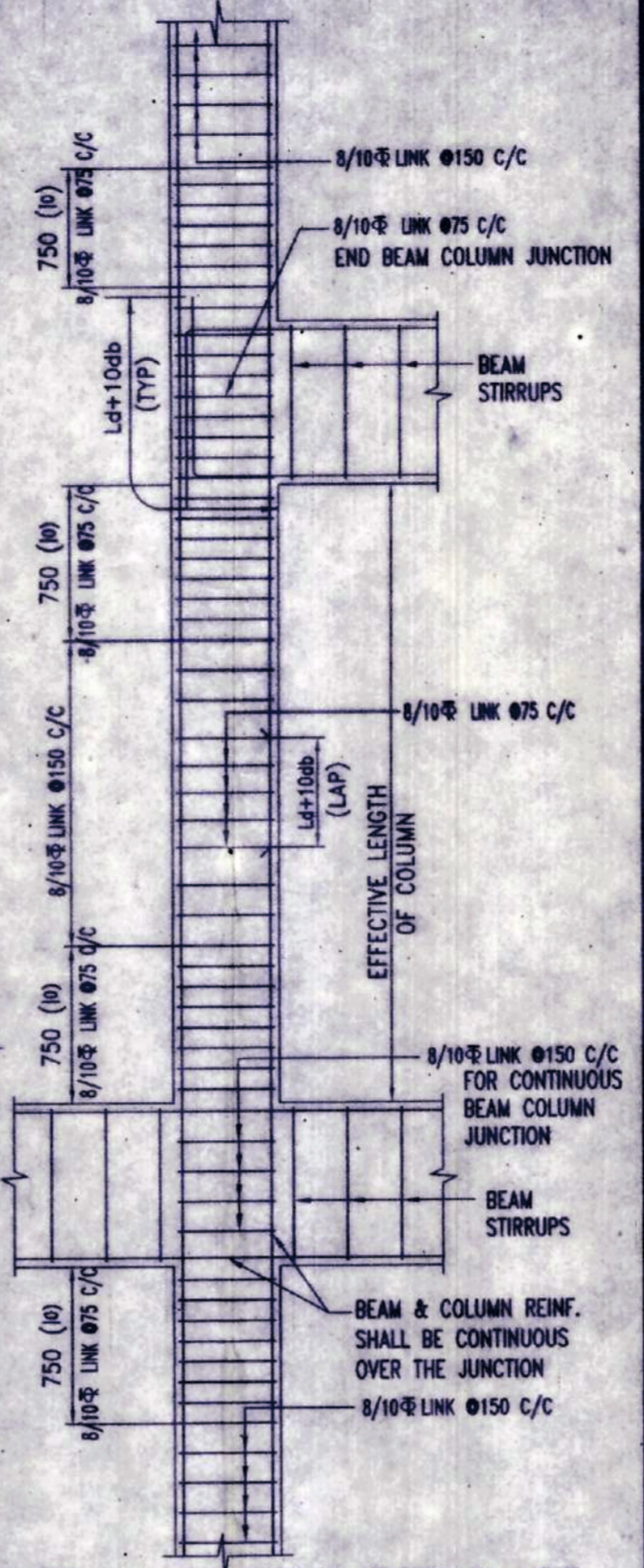
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM



AT SUPPORT AT SPAN
TYPICAL CROSS SECTION OF TIE BEAM

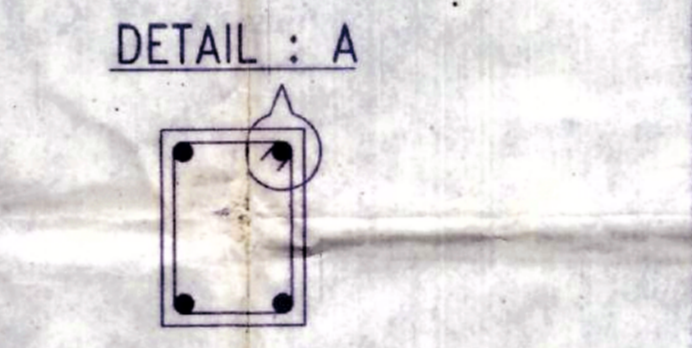


TYPICAL ARRANGEMENT OF REINFORCEMENT IN TIE BEAM



TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION
SCALE 1:25

l_d = DEVELOPMENT LENGTH IN TENSION
 ϕ = DIAMETER OF LONGITUDINAL BAR

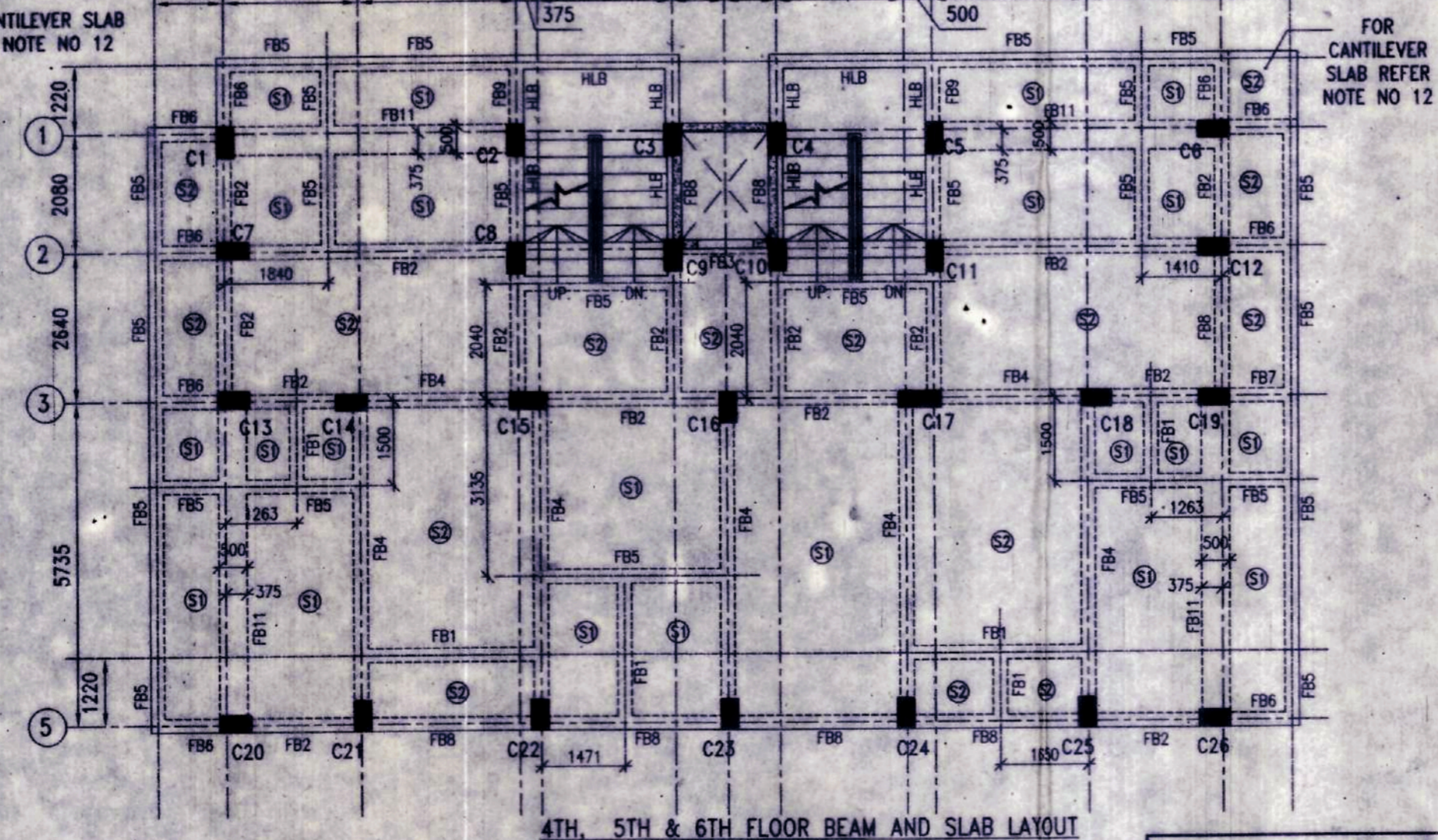


DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)

SCHEDULE OF COLUMNS					
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mmxmm)	FOUNDATION TO 4TH FLOOR	4TH FLOOR TO ROOF & ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
					NEAR JUNCTION (S1) REST PORTION (S2)
C1, C12	02	300x350	300x300 MAIN RNF:-12-20 ϕ +6-20 ϕ	300x300 MAIN RNF:-6-20 ϕ +6-16 ϕ	8 ϕ 075 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK) 8 ϕ 150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)
C5, C6, C13, C19	04	300x350	300x300 MAIN RNF:-6-25 ϕ +6-20 ϕ	300x300 MAIN RNF:-4-25 ϕ +6-16 ϕ	10 ϕ 075 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK) 10 ϕ 150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)
C2	01	300x350	300x300 MAIN RNF:-10-25 ϕ +2-20 ϕ	300x300 MAIN RNF:-6-25 ϕ +6-20 ϕ	8 ϕ 075 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK) 8 ϕ 150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)
C3, C4, C7, C8, C9, C10, C11, C14, C16, C18, C20, C21, C22, C23, C24, C25, C26	17	300x350	300x300 MAIN RNF:-8-20 ϕ +4-16 ϕ	300x300 MAIN RNF:-4-20 ϕ +6-16 ϕ	8 ϕ 075 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK) 8 ϕ 150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)
C15	01	300x350	300x300 MAIN RNF:-10-20 ϕ +4-16 ϕ	300x300 MAIN RNF:-6-20 ϕ +6-16 ϕ	8 ϕ 075 C/C (4 NOS. CLOSED LINK) 8 ϕ 150 C/C (4 NOS. CLOSED LINK)
C17	01	300x750	300x300 MAIN RNF:-10-20 ϕ +4-16 ϕ	300x300 MAIN RNF:-6-20 ϕ +6-16 ϕ	8 ϕ 075 C/C (4 NOS. CLOSED LINK) 8 ϕ 150 C/C (4 NOS. CLOSED LINK)
STOOL COLUMN					
S11, S12, S13, S14 (ROOF TO WATER TANK PLATFORM SLAB)	08	250x250	250x250 MAIN RNF:-4-16 ϕ +4-12 ϕ	250x250 MAIN RNF:-4-16 ϕ +4-12 ϕ	8 ϕ 150 C/C (2 NOS. CLOSED LINK)

SCHEDULE OF TIE BEAMS						
BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)	
	WIDTH (W) DEPTH (D)	ALTHROUGH (a) EXTRA AT SUPPORT (b)	ALTHROUGH (c) EXTRA AT SPAN (e)	(S1)	(S2)	
TB1	250 450	3-16 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
TB2	250 450	3-16 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
TB3	250 450	3-16 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	

SCHEDULE OF 1st TO 6th FLOOR BEAMS						
BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)	
	WIDTH (W) DEPTH (D)	ALTHROUGH (a) EXTRA AT SUPPORT (b)	ALTHROUGH (c) EXTRA AT SPAN (e)	(S1)	(S2)	
FB1	250 400	3-16 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB2	250 450	3-20 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB3	250 450	3-20 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB4	250 450	3-20 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB5	250 450	3-16 ϕ +2-16 ϕ	3-16 ϕ +3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB6	250 450	3-20 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C	
FB7	250 450	3-20 ϕ +2-16 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C	
FB8	250 450	3-16 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB9	250 450	3-16 ϕ +2-12 ϕ	3-16 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 100 C/C	
FB10	250 450	3-20 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	
FB11 (WOODEN BEAM)	500 250	6-20 ϕ	6-20 ϕ	4L-12 ϕ 100 C/C	4L-12 ϕ 100 C/C	
HLB	250 450	3-20 ϕ	3-20 ϕ	2L-8 ϕ 100 C/C	2L-8 ϕ 200 C/C	



4TH, 5TH & 6TH FLOOR BEAM AND SLAB LAYOUT
PLAN AT LEVEL (+)11.6m, (+)14.5m, (+)17.4m
S1 MARKED SLABS ARE 150 mm THICK
S2 MARKED SLABS ARE 125 mm THICK
HLB REFERS TO HALF LANDING BEAM
SCALE-1:100

SPECIAL NOTES FOR PRECAMBER:
1. ALL BEAMS SPANNING GREATER THAN 4.0 M FROM FLOOR TO ROOF SHOULD BE CAST WITH A PRECAMBER OF LENGTH/400 AT BOTTOM AND LENGTH/600 AT TOP BUT NOT LESS THAN 12 mm IN EACH BAY.
2. ALL THE CANTILEVER BEAMS SHOULD BE CAST WITH A PRECAMBER OF 10mm AT TOP.

- NOTES :
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
 - ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER. EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
 - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
 - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 60xBAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
i) COLUMNS : 40 mm
ii) BEAMS : 30 mm
iii) SLABS : 20 mm
 - GRADE OF CONCRETE FOR SUPERSTRUCTURE & SUBSTRUCTURE WILL BE M25 AS PER IS:456:2000.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - DEVELOPMENT LENGTH 50xD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
 - WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER THE BARS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 60D IN THE SUPPORTING MEMBER.
 - WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDES.
 - IN ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UP TO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE
STRUCTURAL DRAWINGS OF PROPOSED G+6 STORED APARTMENT BUILDING OF SMT. CHAMPA MUKHERJEE OVER L.R. PLOT NO. - 207, L.R. KHATAN NO. - 725, MOUZA - TETKHOJA, J.L. NO- 111, P.S. - NEW TOWNSHIP, DIST- PASHCHIM BARDHAMAN.

SIGNATURE OF OWNER
Champa Mukherjee

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT
Singh 21/9/2020

SIGNATURE OF STRUCTURAL ENGINEER
S. Chandhury 14/1/20 Sanjay Das 16/9/2020

SIGNATURE OF VETTING AUTHORITY
DR. DIPANKAR CHAKRABORTY
Asst. Prof. (Senior) International Institute of Technology
Kharagpur, West Bengal, India
Ph: 9830211222, 9830211223
E-mail: drdipankar@iitkgp.ac.in

SIGNATURE OF PANCHAYAT PRADHAN
Approved Plan No. 42 on Meeting No. 12/01/22 Date 05/01/2022 Valid upto 06/12/2022
Sasmita Saha Sen
Pradhan
Sardul Gram Panchayat

DRAWING DETAILS
COLUMN LAYOUT PLAN & REINFORCEMENT DETAILS, TIE, 1ST TO 3RD & 4TH TO 6TH FLOOR BEAM AND SLAB LAYOUT PLAN & REINFORCEMENT DETAILS, DUCTILE DETAIL
SCALE-1:100 OR AS SHOWN
DATE- 05.09.2020
SHEET 2 OF 3