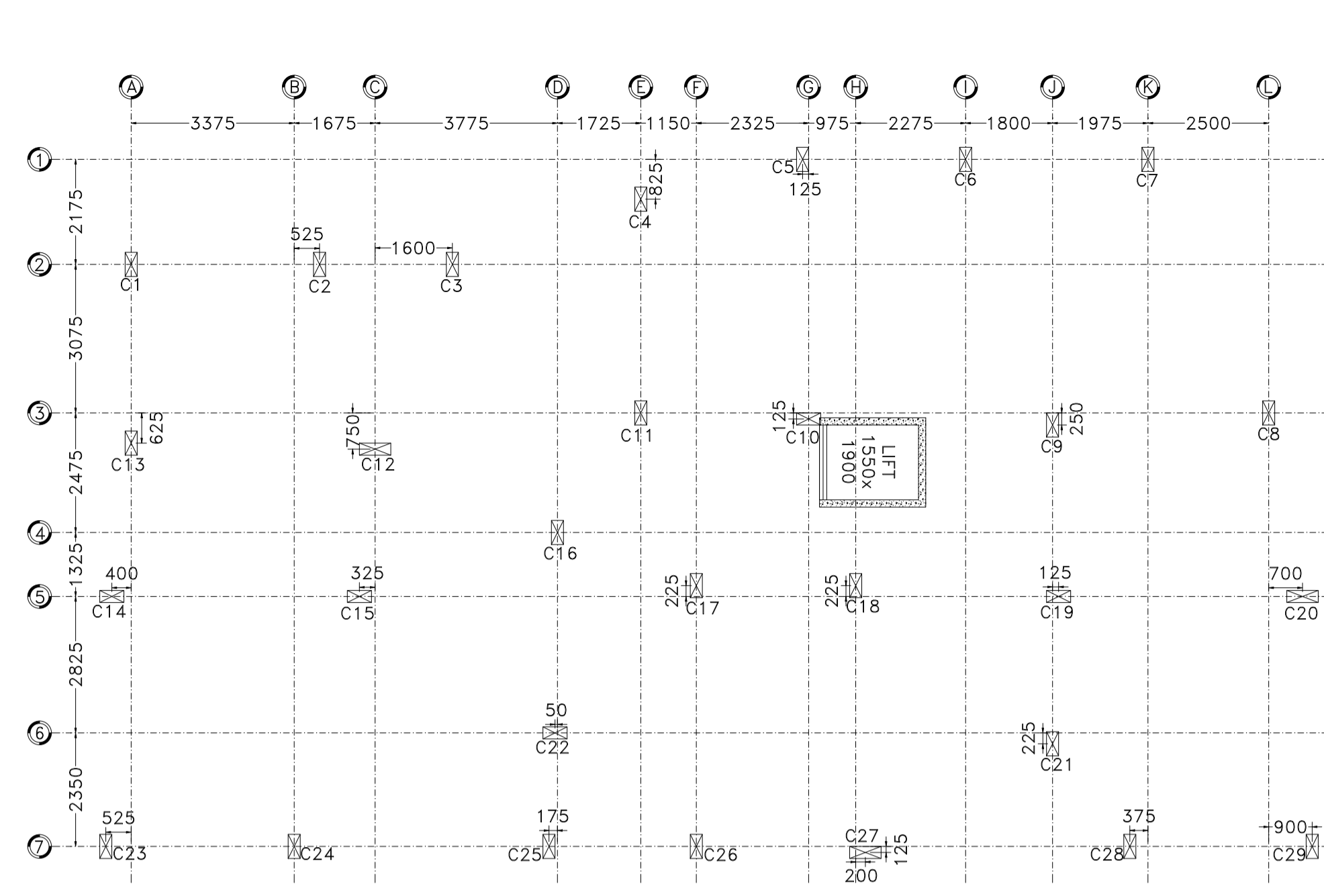


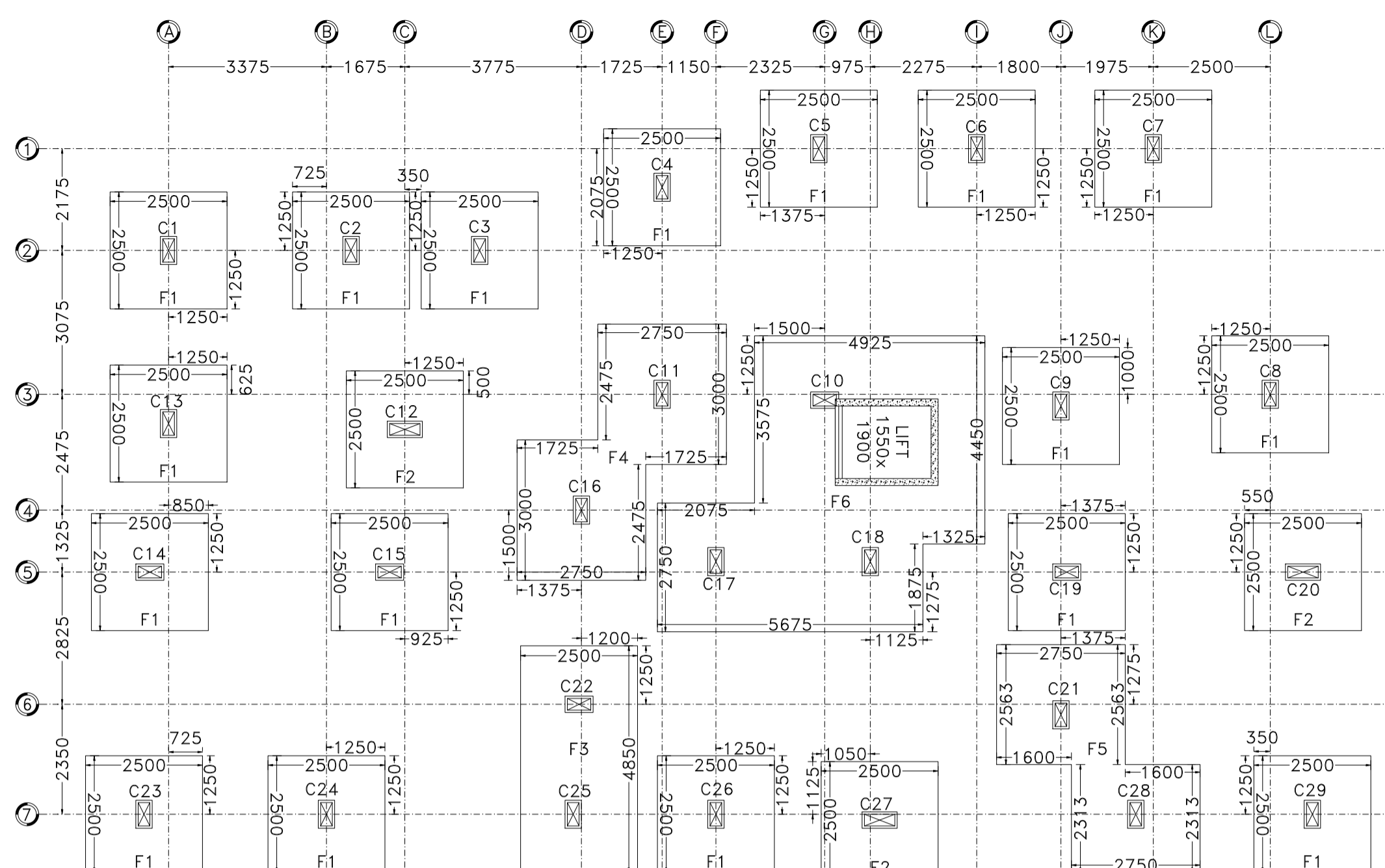
**PROJECT NAME:-**  
 STRUCTURAL DRAWING OF PROPOSED (G+4) FIVE STORIED RESIDENTIAL BUILDING OF MR. SANAT KUMAR MONDAL S/O LT. SAKTI PADA MONDAL, MR. BARID KUMAR MONDAL S/O LT. SAKTI PADA MONDAL, R.S. PLOT NO-792 (P) L.R. PLOT NO-454, L.R. KHATIAN NO-7574,7575, J.L. NO-118 MOUZA-DHANDABAG, P.S.- DURGAPUR, DIST-PASCHIM BARDHAMAN, WEST BENGAL.

- NOTES :-**
- (±) 0.00 M LEVEL REFERS TO E.G.L.
  - 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). HOWEVER ARCHITECTURAL DRAWING TO BE COORDINATED FOR ALL LEVELS.
  - ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
  - 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-500/500 D CONFORMING TO IS-1786-2008.
  - ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
  - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50XBAR DIA.
  - UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8T @ 250 C/C
  - CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:- A)BEAM:-25MM, B)COLUMN:-40MM, C)SLAB:-15MM, D)FOOTING:-50MM,E)R.C.C WALL:-20MM, F) STAIR:- 20MM.
  - GRADE OF CONCRETE WILL BE M30 FOR COLUMN AND M25 FOR BEAM AND SUB STRUCTURE AS PER IS: 456:2000.
  - DEVELOPMENT LENGTH 50XD FOR LAP & SPICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987

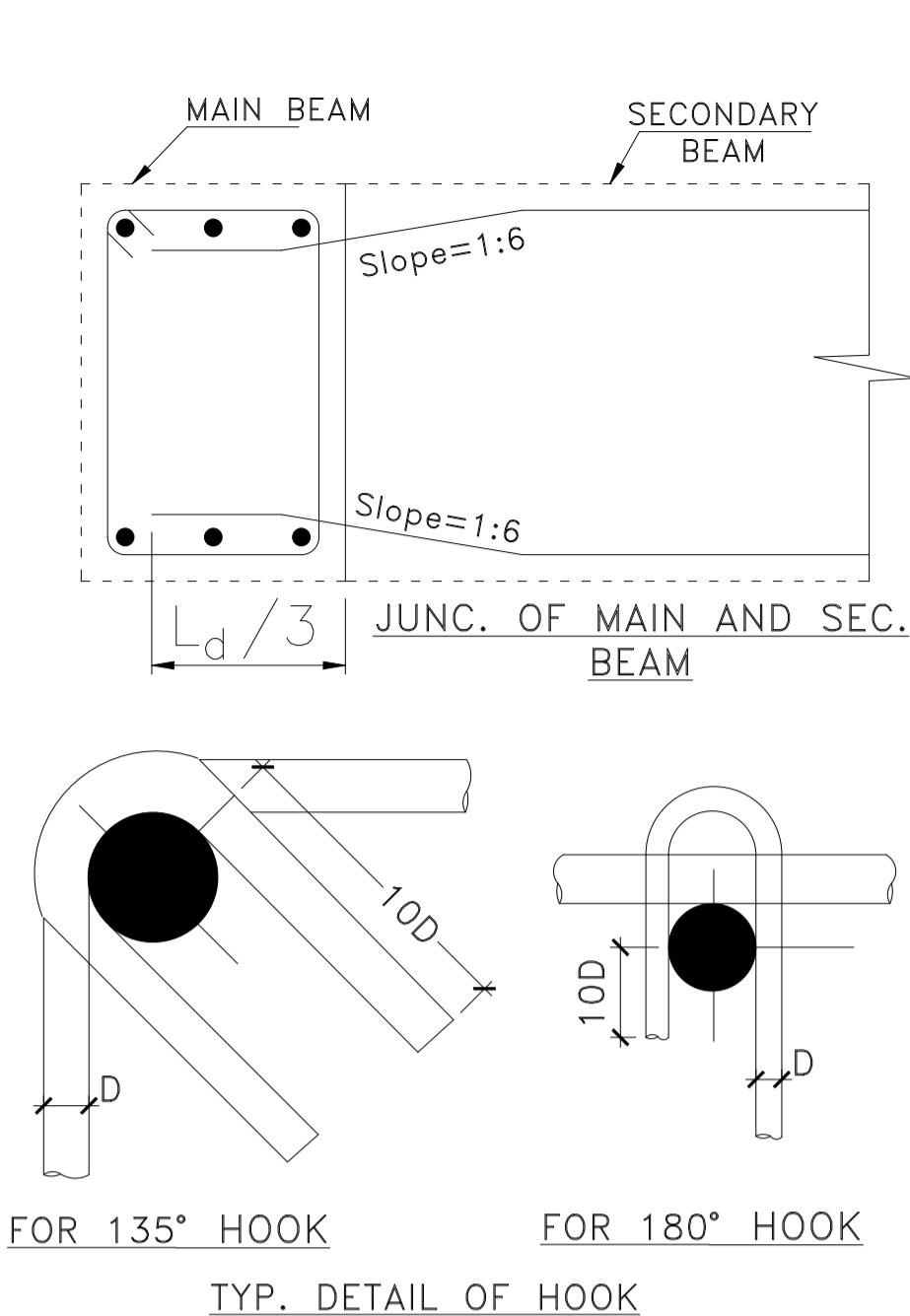
**OFFICE USED:-**



**1 COLUMN LAYOUT PLAN**  
SCALE: 1:100



**2 FOOTING LAYOUT PLAN**  
SCALE: 1:100



FOR 135° HOOK FOR 180° HOOK  
TYP. DETAIL OF HOOK

**TABLE NO:-01 (SCHEDULE OF COLUMNS)**

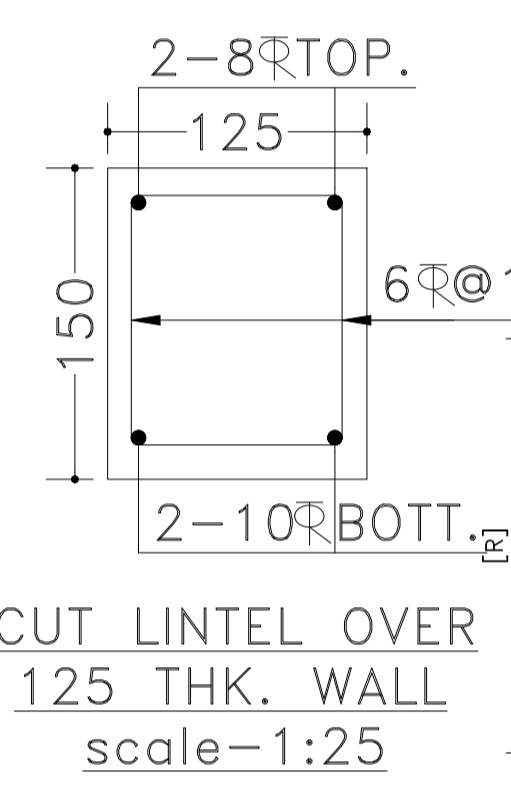
COLUMN MARKED	NO.OF COLUMN	COLUMN SIZE (mm x mm)	FOUNDATION TO 2ND FLOOR		3RD FLOOR TO ROOF FLOOR		TIE	SHAPE OF STIRRUPS
			LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT		
C1,C2,C3,C4,C5, C6,C7,C8,C13, C14,C23,C24, C25,C26, C28,C29.	16	500X250	REINFORCEMENT: 10-20ϕ	REINFORCEMENT: 8-20ϕ	NEAR JUNCTION (UPTO 10%) LENGTH LINKS: 8ϕ@75C/C (3 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8ϕ@150C/C (3 NOS. CLOSED LINK PER SET)	REINFORCEMENT: 8-20ϕ 2-16ϕ	1-2	2-3
C9,C10,C11,C15, C16,C17,C18, C19,C21,C22.	10	500X250	REINFORCEMENT: 8-20ϕ 2-16ϕ	REINFORCEMENT: 6-20ϕ 4-16ϕ	NEAR JUNCTION (UPTO 10%) LENGTH LINKS: 8ϕ@75C/C (3 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8ϕ@150C/C (3 NOS. CLOSED LINK PER SET)	REINFORCEMENT: 6-20ϕ 4-16ϕ	1-2	2-3
C12,C20,C27	03	650X250	REINFORCEMENT: 12-20ϕ	REINFORCEMENT: 8-20ϕ 4-16ϕ	NEAR JUNCTION (UPTO 10%) LENGTH LINKS: 8ϕ@75C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8ϕ@150C/C (4 NOS. CLOSED LINK PER SET)	REINFORCEMENT: 8-20ϕ 4-16ϕ	1-2	2-4

**TABLE NO:-01 (SCHEDULE OF ISOLATE FOUNDATION)**

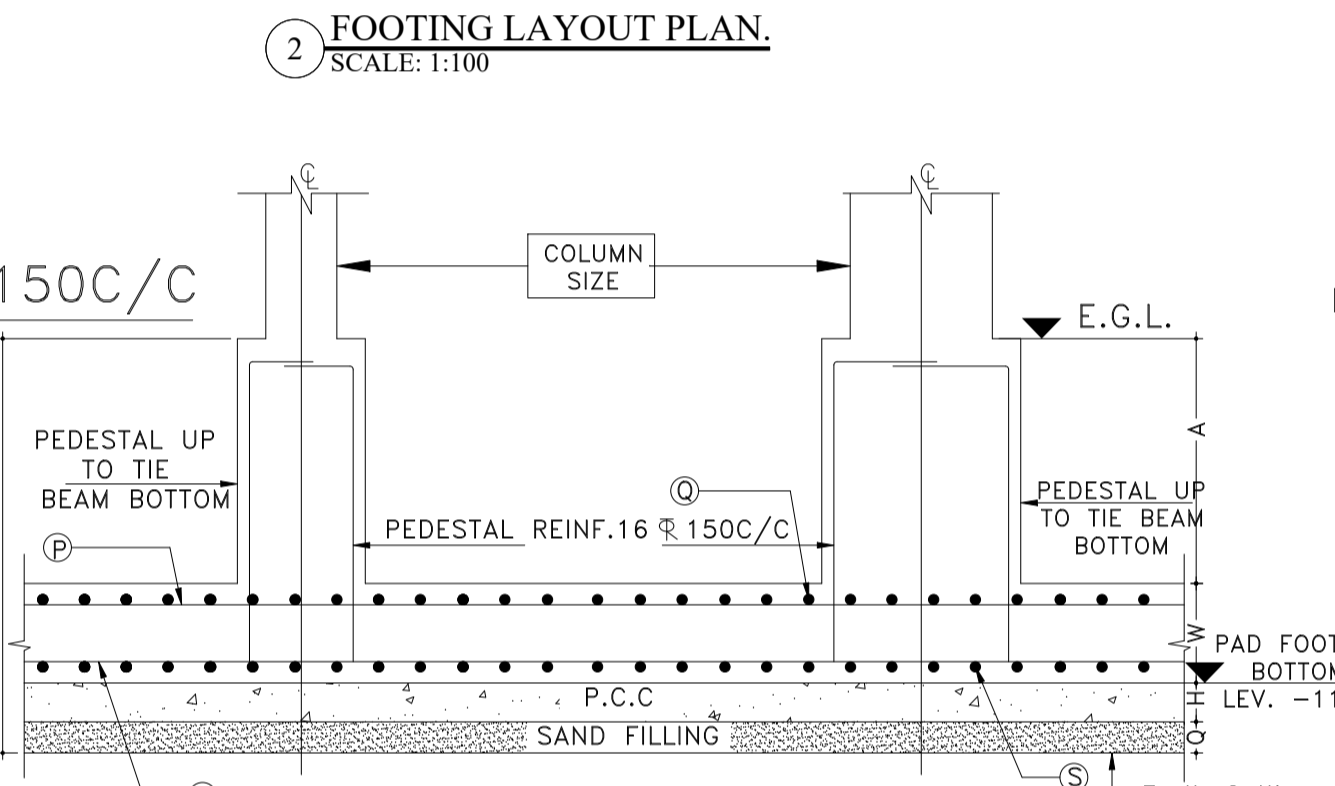
FOUNDATION TYPE	COLUMN UNDER	L (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	K (MM)	Q (MM)	H (MM)	W (MM)	R (MM)	S (MM)	REINF. DETAILS FOR FOUNDATION SLAB		
														MAIN REINF.	DISTRIBUTION REINF.	
F1	C1,C2,C3,C4,C5,C6, C7,C8,C9,C13,C14, C15,C19,C23, C24,C26,C29.	2500	2500	500	250	600	350	650	250	150	400	1500	2650	X 2650	16ϕ@150C/C	16ϕ@150C/C
F2	C12,C20,C27.	2500	2500	650	250	750	350	650	250	150	400	1500	2650	X 2650	16ϕ@150C/C	16ϕ@150C/C

**TABLE NO:-02 (SCHEDULE OF PAD & COMBINED FOOTING)**

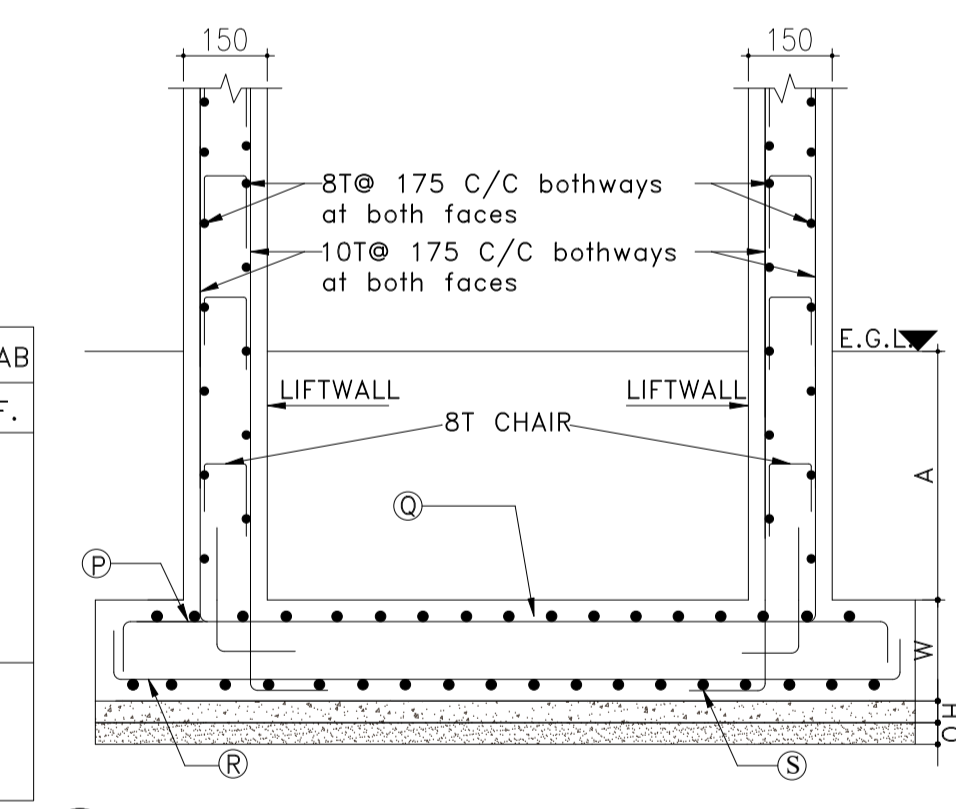
FOUNDATION TYPE	COLUMN UNDER	W (mm)	A (mm)	R (mm)	L (mm)	B (mm)	H (mm)	Q (mm)	REINF. DETAILS FOR FOUNDATION SLAB			
									TOP MAIN REINF.(P)	TOP DIST. REINF.(Q)	BOTT.MAIN REINF.(R)	BOTT. DIST. REINF.(S)
F3	(C22+C25)	400	700	1500	2500	4850	150	250	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C
F4	(C11+C16)	400	700	1500	SEE LAYOUT PLAN	150	250	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	
F5	(C21+C28)	400	700	1500	SEE LAYOUT PLAN	150	250	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	
F6	(C10+C17+C18+LIFT)	400	900	1700	SEE LAYOUT PLAN	150	250	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	



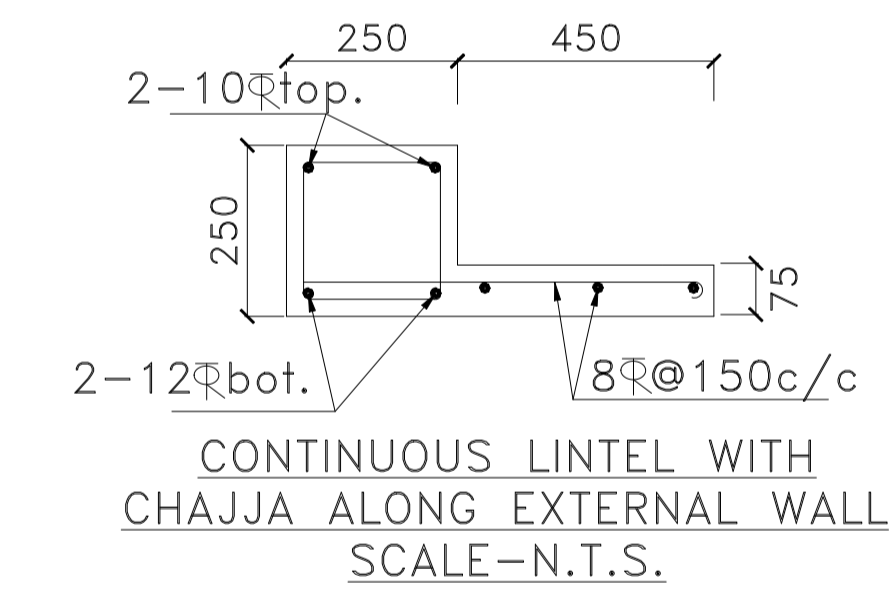
**3 CUT LINTEL OVER 125 THK. WALL**  
scale-1:25



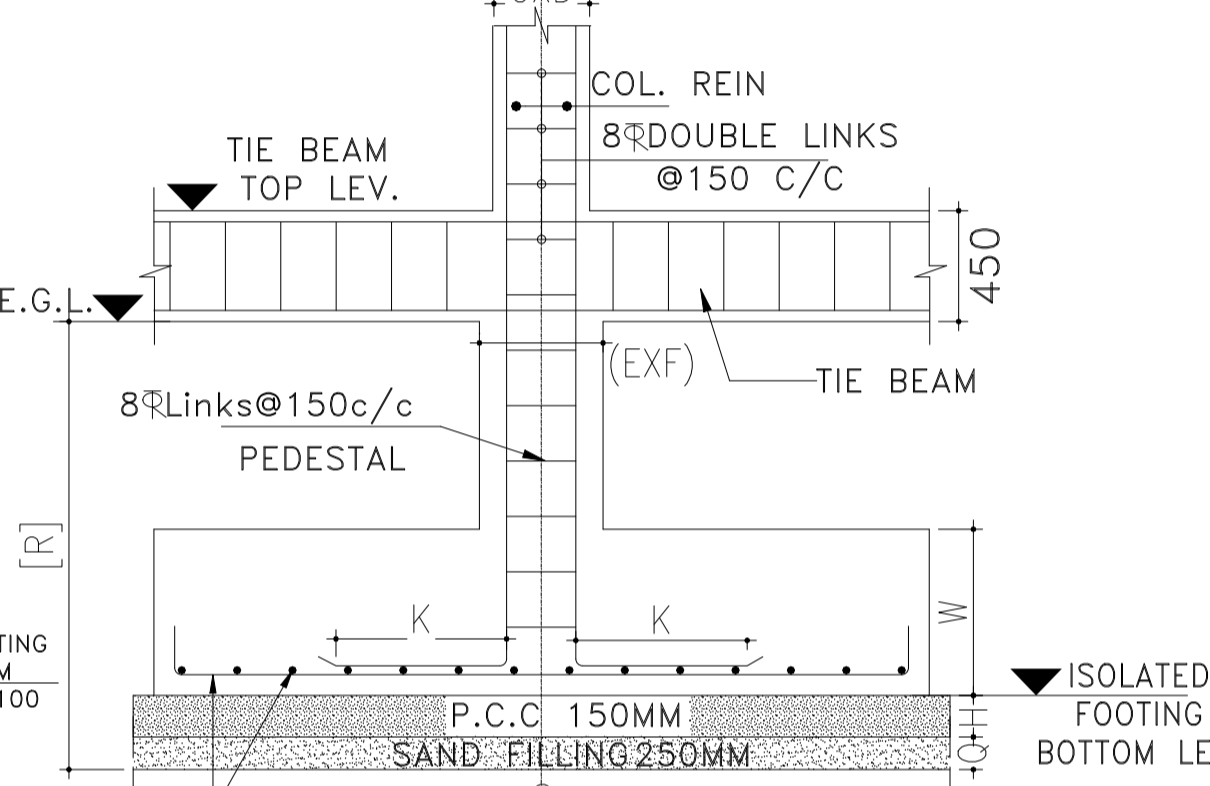
**7 SECTIONAL DETAILS OF PAD FOOTING**  
SCALE: 1:25



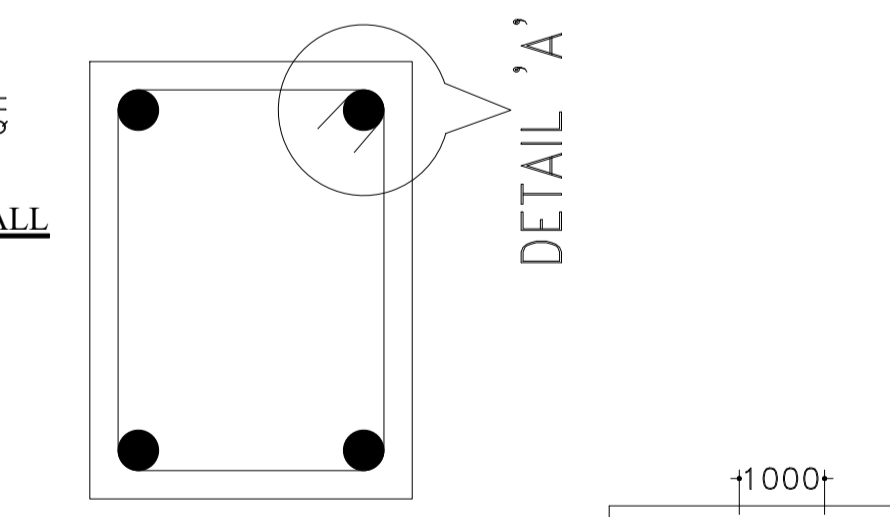
**6 SECTIONAL DETAILS OF PAD FOOTING WITH LIFT WALL**  
SCALE: N.T.S



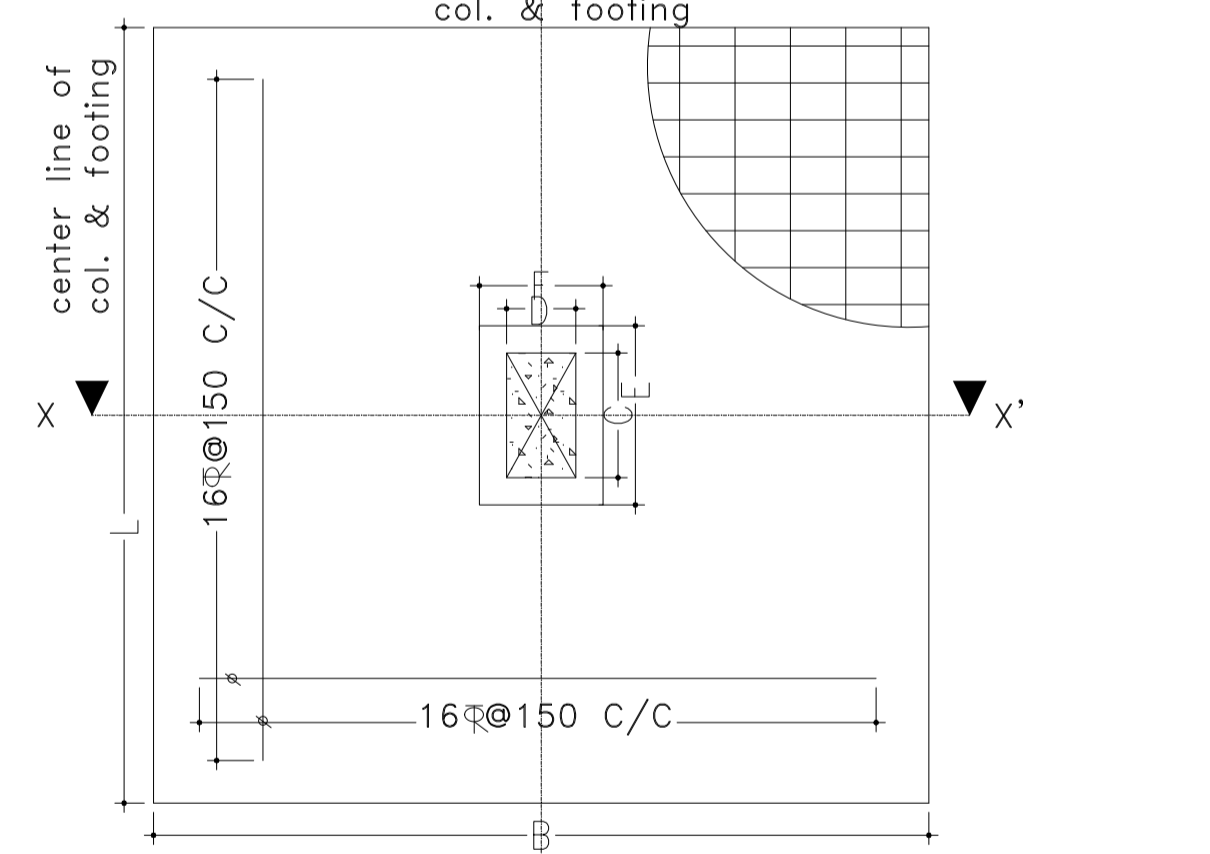
**CONTINUOUS LINTEL WITH CHAJJA ALONG EXTERNAL WALL**  
SCALE-N.T.S.



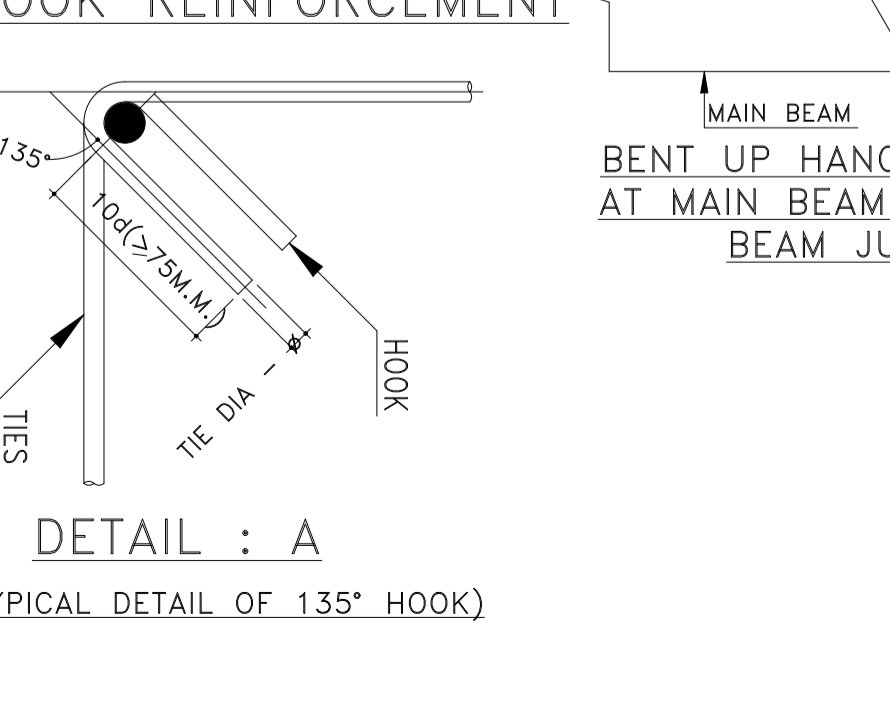
**4 PLAN OF ISOLATED FOOTING**  
SCALE: N.T.S



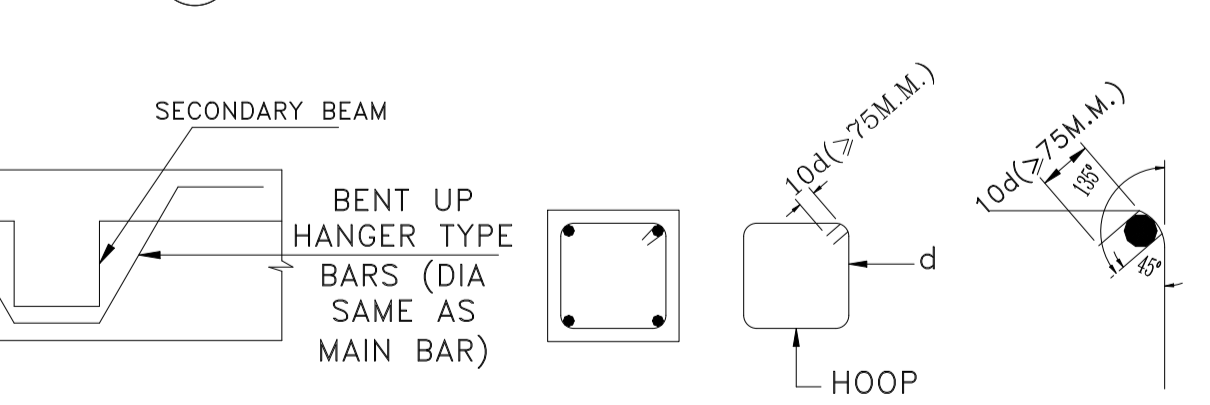
**DETAILS OF COLUMN HOOK REINFORCEMENT**



**STIRRUP DETAIL**  
(d = DIA OF STIRRUP BAR)



**DETAIL : A**  
(TYPICAL DETAIL OF 135° HOOK)



**BENT UP HANGER TYPE BARS AT MAIN BEAM & SECONDARY BEAM JUNCTIONS**

**TITLE:-**

COLUMN LAYOUT, SCHEDULE OF COLUMNS, FOOTING LAYOUT, SCHEDULE OF FOOTING, SECTION OF LIFT WALL, CUT LINTEL & CONTINUOUS LINTEL, JUNC OF MAIN & SEC. BEAM, HOOK DETAILS, STIRRUPS DETAILS, BENT UP BARS AT MAIN BEAM & SECONDARY BEAM JUNC.

**DRAWN BY:-** A.CHAKRABORTY  
**CHECKED BY:-**  
**SCALE:-** 1:100, 1:50, 1:25, N.T.S  
**REV-00**  
**DATE:-** 02.04.2025  
**SHEET NO:-** STRUCTURE- 01/02

