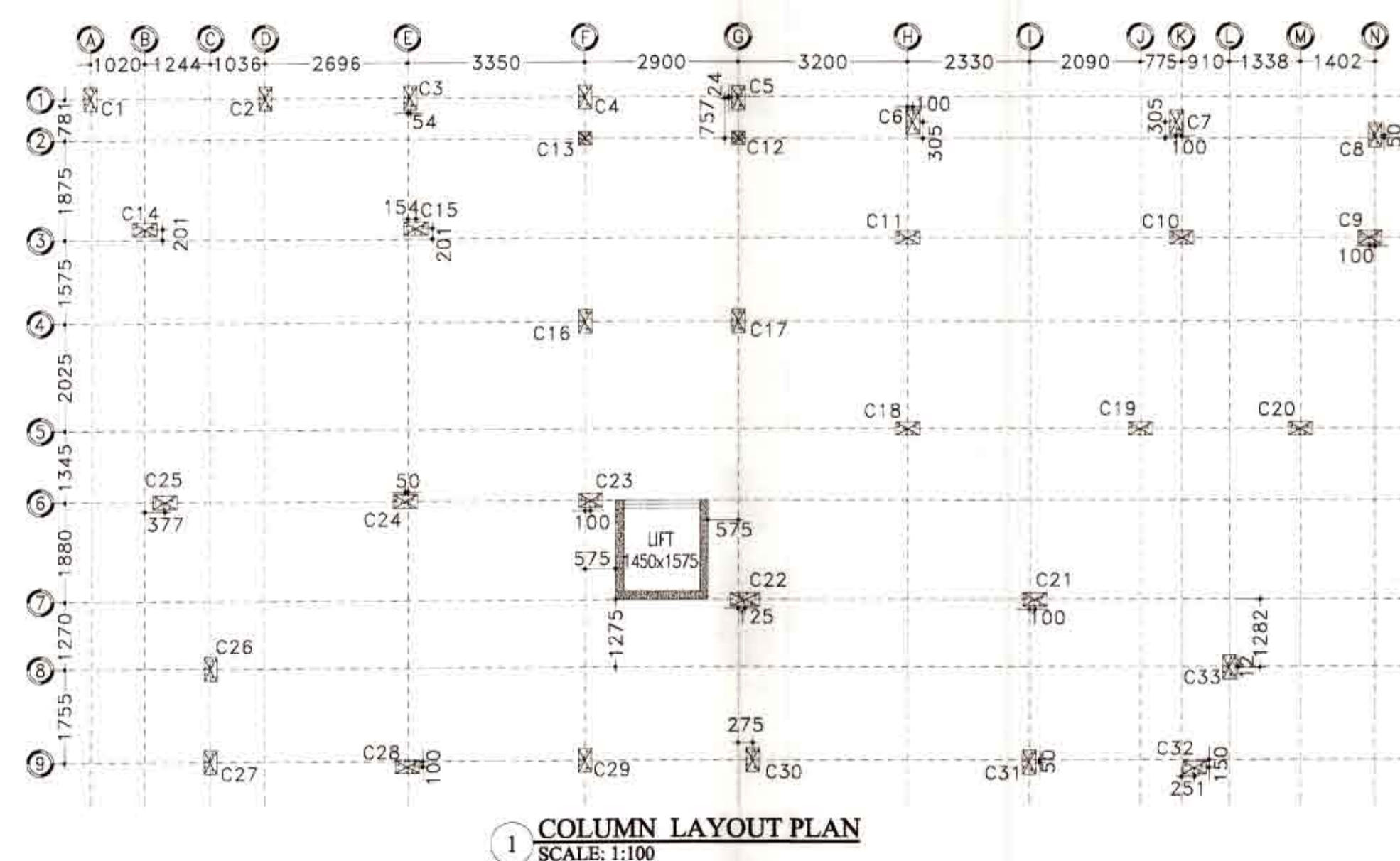




1 COLUMN LAYOUT PLAN
SCALE: 1:100

TABLE NO:-01 (SCHEDULE OF COLUMN)

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 1ST FLOOR LONGITUDINAL REINFORCEMENT	2ND FLOOR TO ROOF LONGITUDINAL REINFORCEMENT	TIE	SHAPE OF STIRRUPS
C1,C2,C3,C4,C5, C6,C7,C8,C9,C14, C20,C23,C26,C27, C28,C29,C30,C31, C32,C33.	20	450X250			NEAR JUNCTION (UPTO 10' LENGTH) LINKS: 8@75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8@150C/C (2 NOS. CLOSED LINK PER SET)	
C10,C11,C15,C16, C17,C18,C19,C21, C23,C24.	10	450X250			NEAR JUNCTION (UPTO 10' LENGTH) LINKS: 8@75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8@150C/C (2 NOS. CLOSED LINK PER SET)	
C22.	01	550X250			NEAR JUNCTION (UPTO 10' LENGTH) LINKS: 8@75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8@150C/C (2 NOS. CLOSED LINK PER SET)	

TABLE NO:-02 (SCHEDULE OF COLUMN)

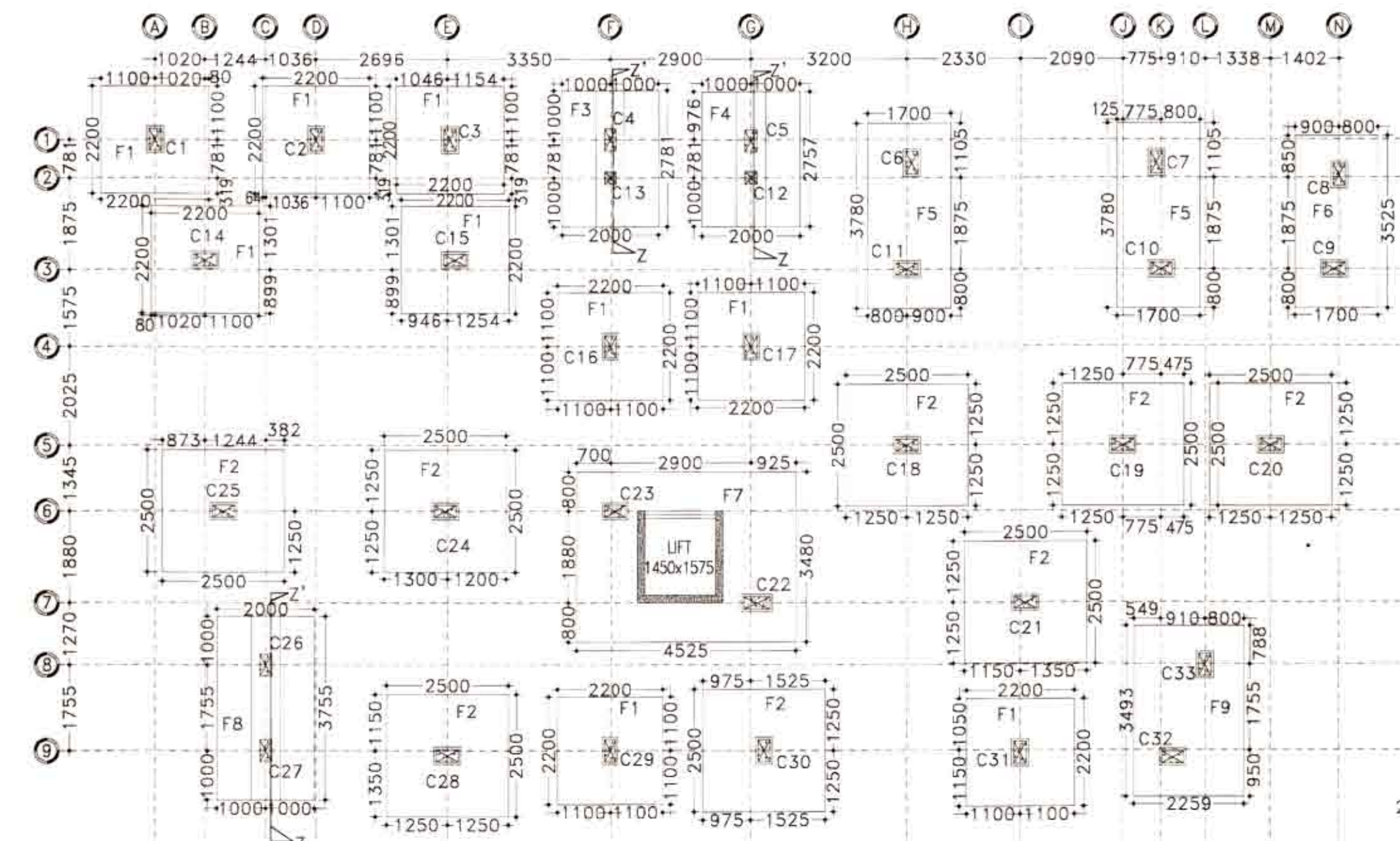
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF LONGITUDINAL REINFORCEMENT	TIE	SHAPE OF STIRRUPS
C12,C13.	02	250X250		NEAR JUNCTION (UPTO 10' LENGTH) LINKS: 8@75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8@150C/C (2 NOS. CLOSED LINK PER SET)	

TABLE NO:-03 (SCHEDULE OF ISOLATED FOOTING)

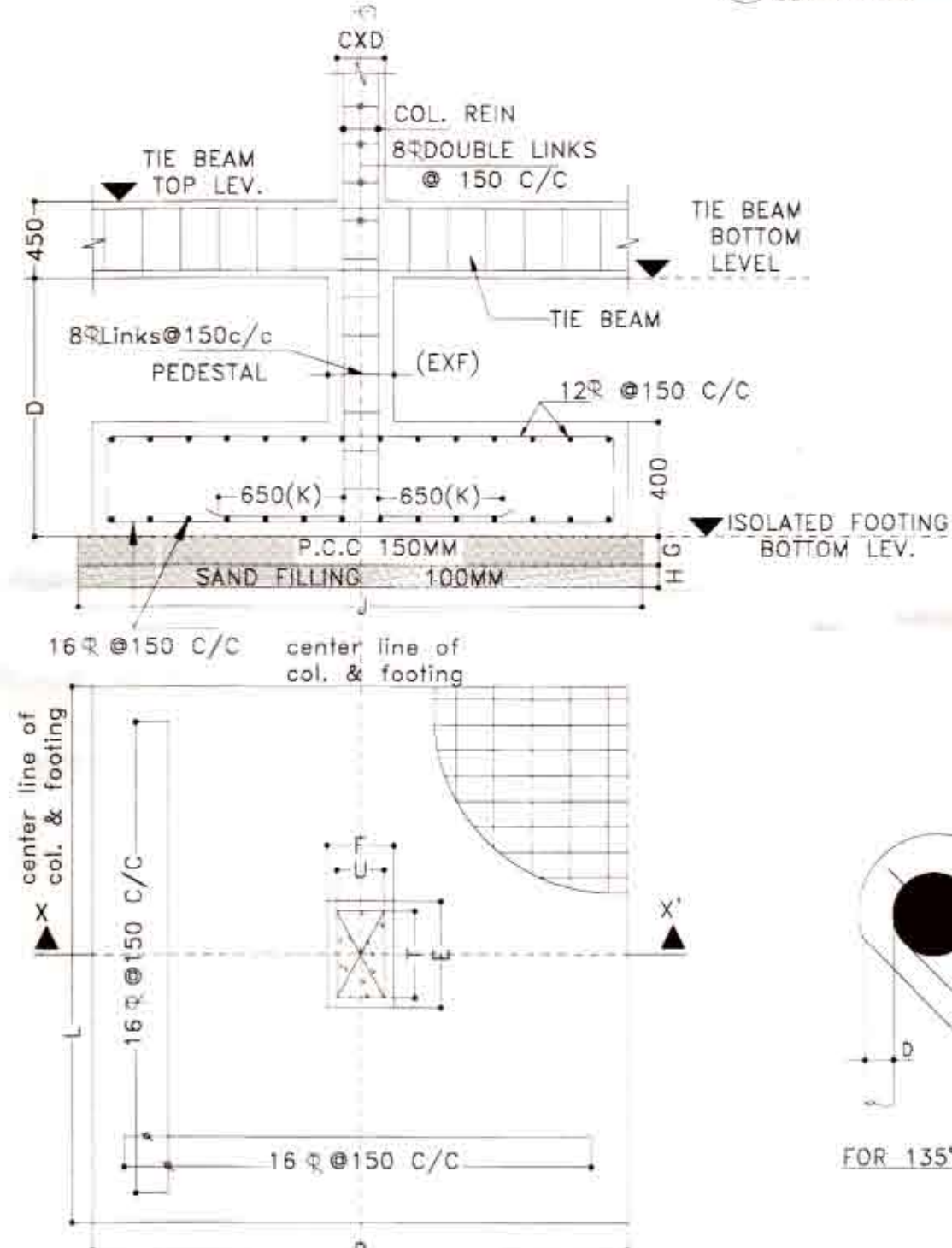
FOUNDATION TYPE	COLUMN UNDER	L (mm)	B (mm)	T (mm)	U (mm)	E (mm)	F (mm)	K (mm)	D (mm)	J (mm)	REIN. DETAILS FOR FOUNDATION SLAB
F1	C1,C2,C3,C14,C15, C16,C17,C29,C31.	2200	2200	450	250	550	350	650	1650	2350 X2350	18@150C/C TOP REIN. 12@150C/C BOTTOM REIN.
F2	C18,C19,C20,C21, C24,C25,C28,C30.	2500	2500	450	250	550	350	650	1650	2650 X2650	18@150C/C TOP REIN. 12@150C/C BOTTOM REIN.

TABLE NO:-04 (SCHEDULE OF PAD & COMBINED FOOTING)

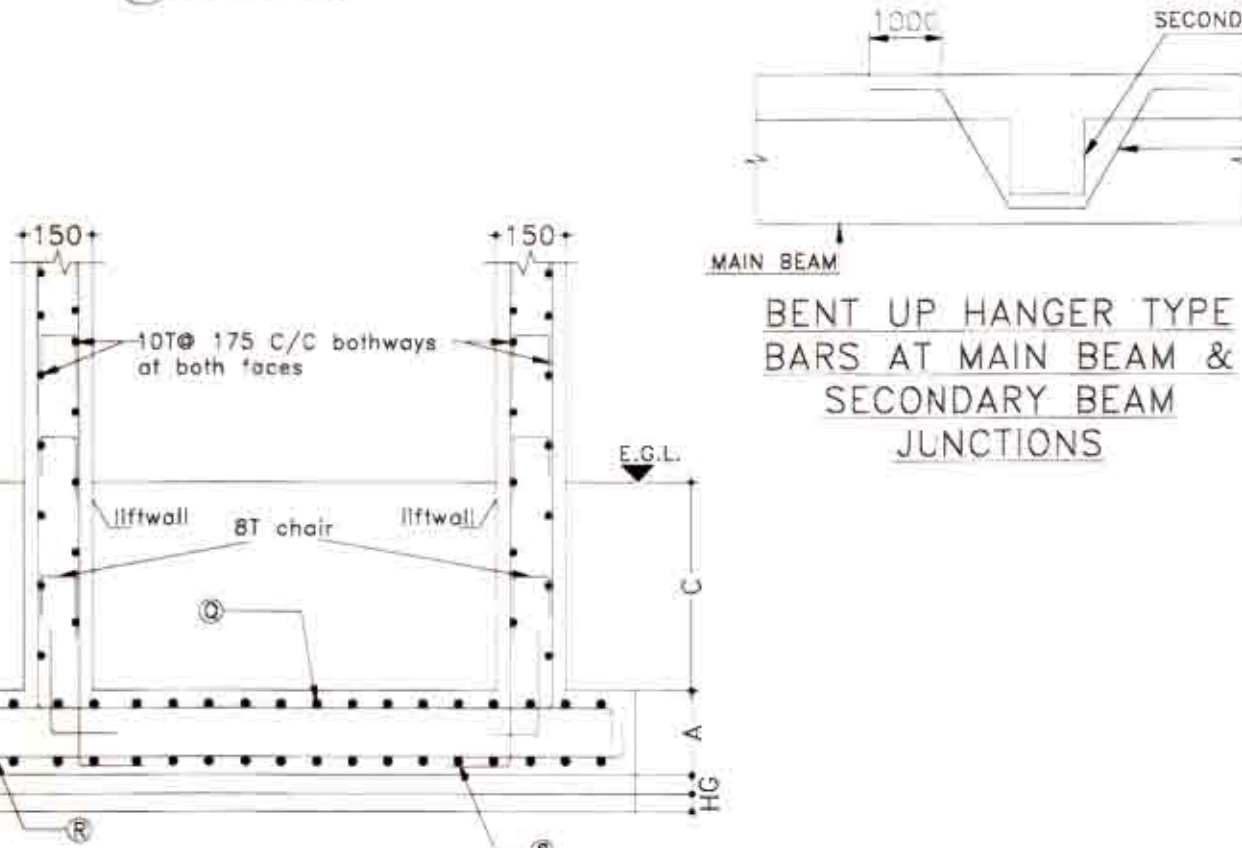
FOUNDATION TYPE	COLUMN UNDER	A (mm)	C (mm)	D (mm)	L (mm)	B (mm)	L1 (mm)	L2 (mm)	L3 (mm)	G (mm)	H (mm)	REIN. DETAILS FOR FOUNDATION SLAB
F3	(C4+C13).	450	1150	1650	2000	2781	1000	781	1000	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)
F4	(C5+C12).	450	1150	1650	2000	2757	1000	781	976	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)
F5	(C6+C11).	450	1150	1650	1700	3780	800	1875	1105	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)
F6	(C8+C9).	450	1150	1650	1700	3525	800	1875	850	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)
F7	(C22+C23+ LIFT).	450	1150	1650	4525	3480	800	1880	800	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)
F8	(C26+C27).	450	1150	1650	2000	3755	1000	1755	1000	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)
F9	(C32+C33).	450	1150	1650	2259	3493	950	1755	788	150	100	12@150 C/C TOP MAIN REIN. (P) 12@150 C/C TOP DIST. REIN. (Q) 16@150 C/C BOTTOM MAIN REIN. (R) 16@150 C/C BOTTOM DIST. REIN. (S)



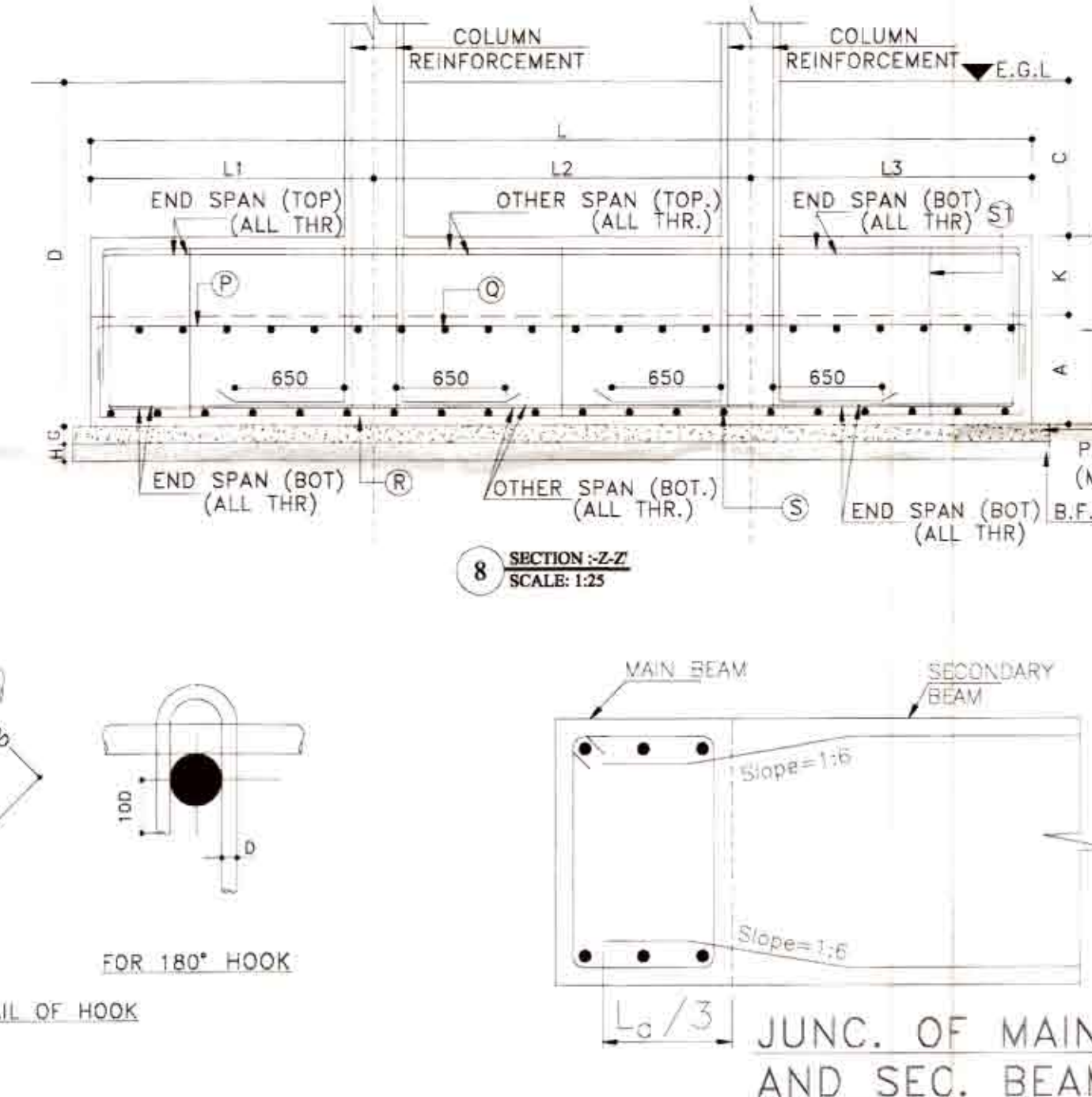
2 FOUNDATION LAYOUT PLAN
SCALE: 1:100



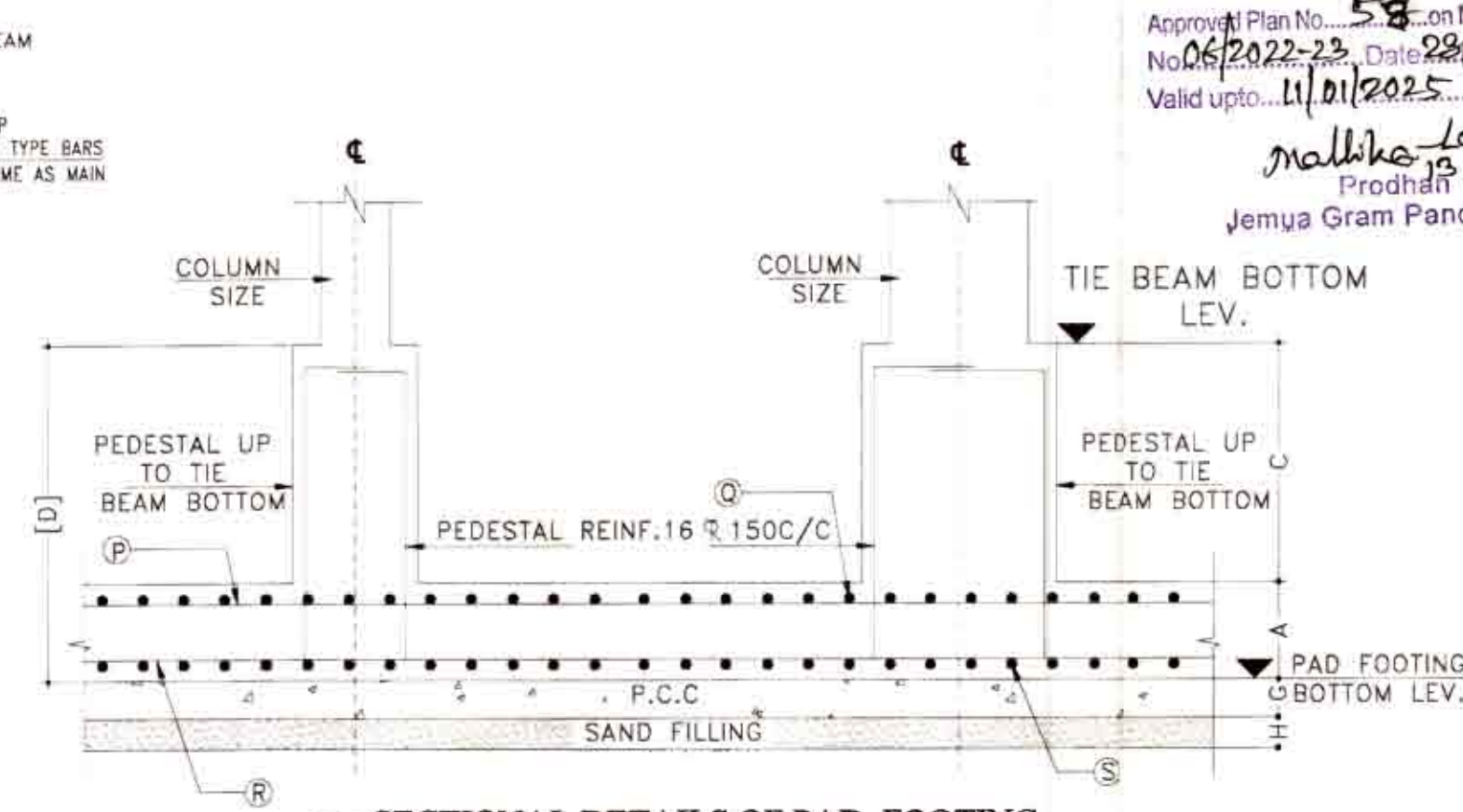
3 PLAN OF ISOLATED FOOTING
SCALE: N.T.S



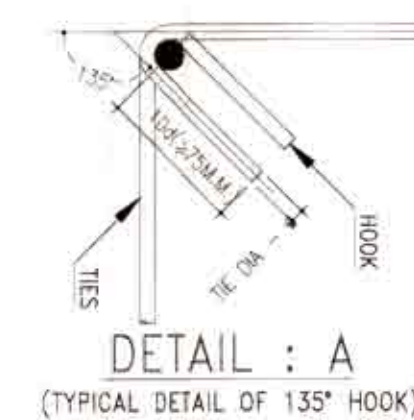
4 SECTIONAL DETAILS OF PAD FOOTING WITH LIFT WALL
SCALE: 1:25



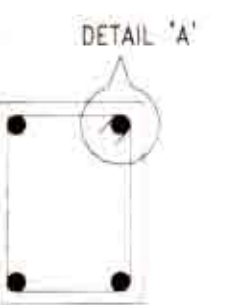
8 JUNC. OF MAIN AND SEC. BEAM
SCALE: 1:25



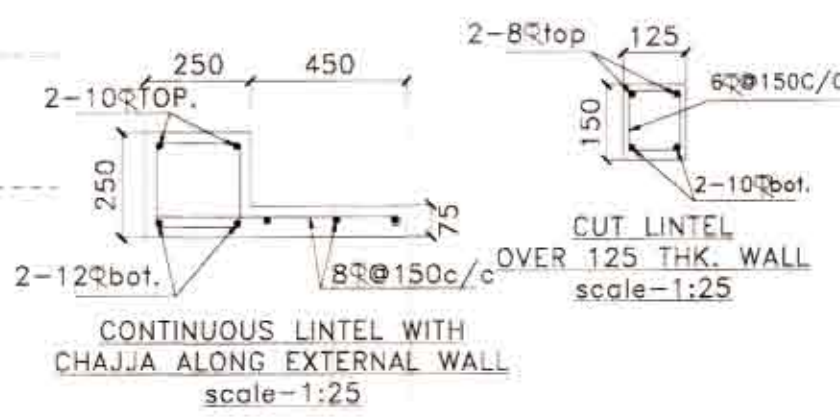
5 SECTIONAL DETAILS OF PAD FOOTING
SCALE: 1:25



DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)



DETAILS OF COLUMN HOOP REINFORCEMENT



CONTINUOUS LINTEL WITH CHAJJA ALONG EXTERNAL WALL
scale: 1:25

PROJECT NAME:-

STRUCTURAL DRAWING OF PROPOSED (G+4) FIVE STORIED RESIDENTIAL BUILDING OF SRI. BALAI THAKURA S/O SRI HARADHAN THAKURA, SRI TARAK NATH NAHA S/O LATE PROMOD KUMAR NAHA, SRI SHAMBHUNATH NAHA S/O LATE PROMOD KUMAR NAHA, SRI SUJOY GOPE S/O GOLOK CHANDRA GOPE, SRI SOMENATH MUKHERJEE, S/O HARI SANKAR MUKHERJEE (DEVELOPED BY MANGALMURTI DEVELOPERS) L.R. PLOT NO-321, R.S PLOT NO-47, L.R KHATIAN NO-1440, J.L. NO- 111, MOUZA-TETIKHOLA, P. S - NEW TOWNSHIP, DURGAPUR-12, 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=50x BAR DIA.
- UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 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 & splices should be provided as per the provisions laid down in SP34:1987

SIGNATURE OF DEVELOPER/OWNER:-

MANGALMURTI DEVELOPERS
Shambhu Nath Naha
Partner
MANGALMURTI DEVELOPERS
Somenath Mukherjee
Partner
MANGALMURTI DEVELOPERS
Tarak Nath Naha
Partner

VETTED BY:-

DR. S. N. MUKHERJEE
Professor
CIVIL ENGINEERING DEPT.
JADAVPUR UNIVERSITY
KOLKATA-700032, (W.B)

TITLE:-

COLUMN LAYOUT PLAN, FOOTING LAYOUT PLAN, SECTIONAL DETAILS OF FOOTING, SCHEDULE OF COLUMN, SCHEDULE OF FOOTING, DETAILS OF HOOK, SECTION DETAIL OF PAD FOOTING WITH LIFT WALL, PLAN OF ISOLATED FOOTING.

SCALE : 1:100, 1:50, 1:25, N.T.S

REV-00

DATE : 16.06.2022

SHEET NO:- GIDS/STRUC-01-02

SIGNATURE OF ARCHITECT:-

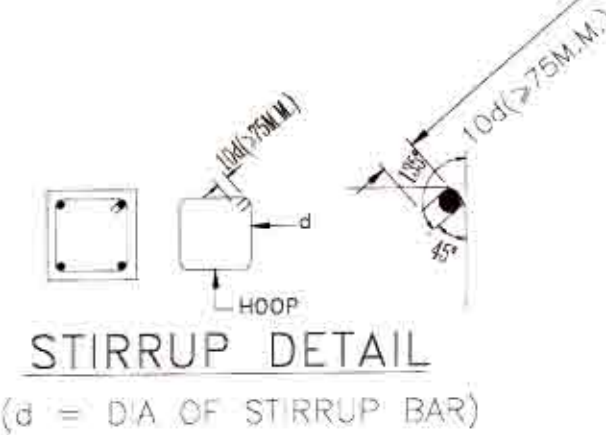
H. K. Ghosh
Consultant Civil Engineer - (C.E. S.A)
Lic. No. L.B.PM/1631AMC-DMD/1165
DCE, B.TECH, G.I.D.S, Durgapur-16
Contact No. 933233331

SIGNATURE OF GEO-TECHNICAL ENGINEER:-

MANOJ MAITY
Civil / Geotechnical Engineer
Lic. No. L.B.PM/1631AMC-DMD/1165
DCE, B.TECH, G.I.D.S, Durgapur-16
Contact No. 933233331

SIGNATURE OF STRUCTURAL ENGINEER:-

H. K. Ghosh
Structural Engineer
Lic. No. L.B.PM/1631AMC-DMD/1165
DCE, B.TECH, G.I.D.S, Durgapur-16
Contact No. 933233331



STIRRUP DETAIL
(d = DIA OF STIRRUP BAR)