

COLUMN LAYOUT PLAN
SCALE-1:100

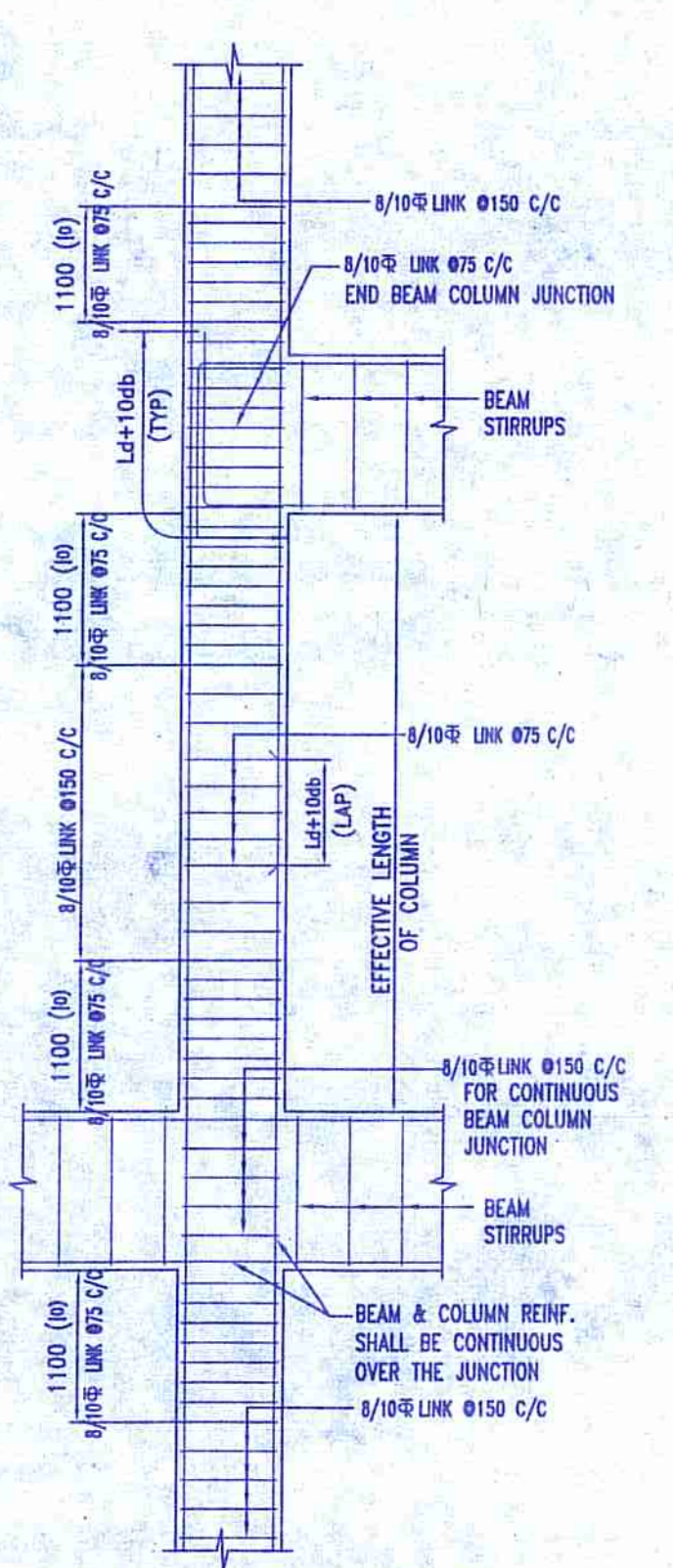
DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)
SCALE-N.T.S.

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COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
ST1,ST2,ST3 (ROOF TO WATER TANK)	03	250x250	MAIN RNF.:- 4-16 # 250	8 # 0150 C/C (1 NO. CLOSED LINK)
ST4,ST5 (ROOF TO 1 ST FLOOR)	02	250x250	MAIN RNF.:- 8-16 # 250	8 # 0150 C/C (2 NOS. CLOSED LINK)

SPECIAL NOTES-

- THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
- ALL BEAMS SPANNING GREATER THAN 5.0 M ABOVE THE BEAM LVL TO ROOF LVL SHOULD BE CAST WITH A PRECAMER OF 15 MM IN EACH BAY BOTH AT TOP AND BOTTOM.
- THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION
SCALE-N.T.S.

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	SCHEDULE OF COLUMNS					
			FOUNDATION TO 4TH FLOOR	4TH FLOOR TO 8TH FLOOR	8TH FLOOR TO ABOVE	STIRRUP ARRANGEMENT & SPACING NEAR JUNCTION(S)	REST PORTION	
C1,C23	02	400X1000	400 1000 MAIN RNF.:- 12-20 # +12-16 #	400 1000 MAIN RNF.:- 6-20 # +18-16 #	400 1000 MAIN RNF.:- 6-20 # +18-16 #	8 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C4	01	400X1000	400 1000 MAIN RNF.:- 4-25 # +10-20 #	400 1000 MAIN RNF.:- 4-25 # +10-20 #	400 1000 MAIN RNF.:- 4-25 # +10-20 #	10 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C10	01	400X1000	400 1000 MAIN RNF.:- 24-25 # +10-20 #	400 1000 MAIN RNF.:- 12-25 # +12-12 #	400 1000 MAIN RNF.:- 12-25 # +12-12 #	10 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C11	01	400X1000	400 1000 MAIN RNF.:- 4-25 # +20-20 #	400 1000 MAIN RNF.:- 4-25 # +20-20 #	400 1000 MAIN RNF.:- 4-25 # +20-20 #	10 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C24	01	400X1000	400 1000 MAIN RNF.:- 20-20 # +4-12 #	400 1000 MAIN RNF.:- 20-20 # +4-12 #	400 1000 MAIN RNF.:- 20-20 # +4-12 #	8 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C16,C17,C18	03	400X800	400 800 MAIN RNF.:- 20-20 # +4-12 #	400 800 MAIN RNF.:- 20-20 # +4-12 #	400 800 MAIN RNF.:- 20-20 # +4-12 #	8 # 075 C/C (5 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 # 0150 C/C (5 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C9	01	400X800	400 800 MAIN RNF.:- 20-20 # +4-12 #	400 800 MAIN RNF.:- 20-20 # +4-12 #	400 800 MAIN RNF.:- 20-20 # +4-12 #	8 # 075 C/C (5 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 # 0150 C/C (5 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C19	01	400X800	400 800 MAIN RNF.:- 20-20 # +4-12 #	400 800 MAIN RNF.:- 20-20 # +4-12 #	400 800 MAIN RNF.:- 20-20 # +4-12 #	8 # 075 C/C (5 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 # 0150 C/C (5 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C20	01	400X800	400 800 MAIN RNF.:- 4-25 # +16-20 #	400 800 MAIN RNF.:- 4-25 # +16-20 #	400 800 MAIN RNF.:- 4-25 # +16-20 #	10 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	
C5	01	450X850	450 850 MAIN RNF.:- 10-25 # +14-20 #	450 850 MAIN RNF.:- 10-25 # +14-20 #	450 850 MAIN RNF.:- 10-25 # +14-20 #	10 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	SCHEDULE OF COLUMNS					
			FOUNDATION TO 4TH FLOOR	4TH FLOOR TO 8TH FLOOR	8TH FLOOR TO ABOVE	STIRRUP ARRANGEMENT & SPACING NEAR JUNCTION(S)	REST PORTION	
C6,C7	02	450X850	450 850 MAIN RNF.:- 12-20 # +12-16 #	450 850 MAIN RNF.:- 12-20 # +12-16 #	450 850 MAIN RNF.:- 12-20 # +12-16 #	8 # 075 C/C (6 NOS. CLOSED LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK)	
C15,C27	02	450X850	450 850 MAIN RNF.:- 20-16 # +4-12 #	450 850 MAIN RNF.:- 20-16 # +4-12 #	450 850 MAIN RNF.:- 20-16 # +4-12 #	8 # 075 C/C (6 NOS. CLOSED LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK)	
C26,C28,C29	03	450X850	450 850 MAIN RNF.:- 14-20 # +10-16 #	450 850 MAIN RNF.:- 8-20 # +4-16 #	450 850 MAIN RNF.:- 8-20 # +4-16 #	8 # 075 C/C (6 NOS. CLOSED LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK)	
C13	01	400X950	400 950 MAIN RNF.:- 14-20 # +10-20 #	400 950 MAIN RNF.:- 8-25 # +16-16 #	400 950 MAIN RNF.:- 8-25 # +16-16 #	10 # 075 C/C (6 NOS. CLOSED LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK)	
C21,C22	02	400X950	400 950 MAIN RNF.:- 8-20 # +16-16 #	400 950 MAIN RNF.:- 4-25 # +10-16 #	400 950 MAIN RNF.:- 4-25 # +10-16 #	8 # 075 C/C (6 NOS. CLOSED LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK)	
C25	01	400X950	400 950 MAIN RNF.:- 18-20 # +16-16 #	400 950 MAIN RNF.:- 10-20 # +10-12 #	400 950 MAIN RNF.:- 10-20 # +10-12 #	8 # 075 C/C (6 NOS. CLOSED LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK)	
C8	01	400X1100	400 1100 MAIN RNF.:- 26-25 # +12-12 #	400 1100 MAIN RNF.:- 14-25 # +12-12 #	400 1100 MAIN RNF.:- 14-25 # +12-12 #	10 # 075 C/C (7 NOS. CLOSED LINK)	10 # 0150 C/C (7 NOS. CLOSED LINK)	
C12	01	400X1100	400 1100 MAIN RNF.:- 4-25 # +12-20 #	400 1100 MAIN RNF.:- 4-25 # +12-20 #	400 1100 MAIN RNF.:- 4-25 # +12-20 #	10 # 075 C/C (7 NOS. CLOSED LINK)	10 # 0150 C/C (7 NOS. CLOSED LINK)	
C14	01	300X900	300 900 MAIN RNF.:- 10-25 # +12-20 #	300 900 MAIN RNF.:- 6-25 # +6-20 #	300 900 MAIN RNF.:- 6-25 # +6-20 #	10 # 075 C/C (6 NOS. CLOSED LINK)	10 # 0150 C/C (6 NOS. CLOSED LINK)	
C2,C3	02	300X1200	300 1200 MAIN RNF.:- 24-20 # +12-16 #	300 1200 MAIN RNF.:- 12-20 # +12-16 #	300 1200 MAIN RNF.:- 12-20 # +12-16 #	8 # 075 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 # 0150 C/C (6 NOS. CLOSED LINK) (1 NO. OPEN LINK)	

- 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 = 50xBAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - i) COLUMNS : 40 mm
 - ii) BEAMS : 30 mm
 - iii) SLABS : 20 mm
 - iv) WAIST SLAB : 20 mm
 - GRADE OF CONCRETE FOR SUPERSTRUCTURE:
 - COLUMNS - M40
 - BEAMS UPTO AND INCLUDING 6TH FLOOR - M35
 - AND ABOVE 6TH FLOOR - M30
 - 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 SIDE.
 - ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE
STRUCTURAL DRAWING OF PROPOSED B+G+13 STORED RESIDENTIAL APARTMENT BUILDING OF SRI ANATH BANDHU MAJI, SRI SUMAN RABABI, SMT SABITA RABABI, SRI GOUTAM KUMAR MUKHERJEE, SRI SAMIR CHATTERJEE, DEVELOPED BY - "BIJOY DEVELOPER" PROPRIETOR - GOUR SUNDAR PAUL, L.R. PLOT NO. - 379,388, KHATIAN NO.- 1205, 2871, 2870, 803, 1031. MOUZA - SANKARPUR, J.L. NO- 109, P.S. - NEW TOWNSHIP, DIST- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER
Goutam Kumar Mukherjee
Anath Bandhu Maji
Suman Rababi
Sabita Rababi

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT
Signature: 14/4/23
Dr. Vijaya Sankar Majumder
COA Registered
CA/2021/134276
9322902869 / 9879542106

SIGNATURE OF GEO-TECHNICAL ENGINEER
Asim Sarkar
ECE, ME & SOIL IN HIGH STRUCTURAL & RES ME
EMPANELLED GEOTECHNICAL ENGINEER
K.M.C. No. CLASS-1/2

SIGNATURE OF PANCHAYET PRADHAN
Signature: 14/4/23
Santosh Kumar
Pradhan
Jemua Gram Panchayat

SIGNATURE OF STRUCTURAL ENGINEER
Signature: 14/4/23
Susmita Choudhury
M.TECH CIVIL - WBUTU
M.E. (CONSTRUCTION) - IIT
ESE-17/2007/209
STER/INDIA/21/0010
CVR/INDIA/10/00175
06-087517321 / 9879542106

SIGNATURE OF VETTING AUTHORITY
Checked & Vetted
Dr. Dipankar Chakrabarti
M.TECH CIVIL - WBUTU
M.E. (CONSTRUCTION) - IIT
ESE-17/2007/209
STER/INDIA/21/0010
CVR/INDIA/10/00175
06-087517321 / 9879542106

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DRAWING TITLE
1. COLUMN LAYOUT PLAN WITH REINFORCEMENT DETAILS.
SCALE:-1:100 OR AS SHOWN
DATE:- 06.04.2023
SHEET NO.- 2 OF 4 SHEET SIZE- A0