

G.A OF 1ST FLOOR BEAM LAYOUT
SCALE=1:100

G.A OF TYPICAL FLOOR BEAM LAYOUT
SCALE=1:100

SCHEDULE OF FLOOR BEAM:
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

BEAM MKD.	BEAM SIZE	MAIN REINFORCEMENT						STIRRUPS	
		LEFT	MID	RIGHT	LEFT	MID	RIGHT	SUPPORT	SPAN
B-1	250X500	3-16 ⁺ 3-20 ⁺	2-16 ⁺	3-16 ⁺ 3-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-1A	250X500	3-16 ⁺ 3-20 ⁺	2-16 ⁺	3-16 ⁺ 3-20 ⁺	3-16 ⁺	3-16 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-2	250X450	3-16 ⁺ 3-20 ⁺	2-16 ⁺	3-16 ⁺ 3-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-3	250X450	3-16 ⁺ 3-20 ⁺	2-16 ⁺	3-16 ⁺ 3-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-3A	250X500	3-16 ⁺ 3-20 ⁺	2-16 ⁺	3-16 ⁺ 3-20 ⁺	3-16 ⁺	3-16 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-4	250X450	2-16 ⁺	2-16 ⁺	2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-5	250X450	3-16 ⁺ 3-20 ⁺	2-16 ⁺	3-16 ⁺ 3-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-6	250X500	2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-7	250X500	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-7A	250X500	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-8	250X450	2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-9	250X450	2-16 ⁺	2-16 ⁺	3-16 ⁺ 2-16 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-10	250X350	3-12 ⁺	3-12 ⁺	3-12 ⁺	3-12 ⁺	3-12 ⁺	8 ⁺ -2L @ 150 C/C	8 ⁺ -2L @ 150 C/C	
B-11	250X500	3-20 ⁺ 3-20 ⁺	2-20 ⁺	3-20 ⁺ 3-20 ⁺	3-20 ⁺	3-20 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-11A	250X500	3-20 ⁺ 3-20 ⁺	2-20 ⁺	3-20 ⁺ 3-20 ⁺	3-20 ⁺	3-20 ⁺	10 ⁺ -2L @ 100 C/C	10 ⁺ -2L @ 100 C/C	
B-12	250X450	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-16 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-13	250X450	3-20 ⁺ 2-16 ⁺	2-20 ⁺	3-20 ⁺ 2-16 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-14	250X450	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-15	250X450	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-15A	250X450	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-16	250X450	3-16 ⁺ 2-16 ⁺	2-16 ⁺	3-16 ⁺ 2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-17	250X450	3-16 ⁺ 2-16 ⁺	2-16 ⁺	3-16 ⁺ 2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-18	250X450	3-16 ⁺ 2-16 ⁺	2-16 ⁺	3-16 ⁺ 2-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-19	250X450	3-16 ⁺ 2-20 ⁺	2-16 ⁺	3-16 ⁺ 2-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-20	250X450	3-16 ⁺ 2-20 ⁺	2-16 ⁺	3-16 ⁺ 2-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-20A	250X450	3-16 ⁺ 2-20 ⁺	3-16 ⁺ 2-20 ⁺	3-16 ⁺ 2-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-21	250X450	3-20 ⁺ 2-16 ⁺	2-20 ⁺	3-20 ⁺ 2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-22	250X500	3-20 ⁺ 2-16 ⁺	3-20 ⁺ 2-16 ⁺	3-20 ⁺ 2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-23	250X450	3-20 ⁺ 2-16 ⁺	2-20 ⁺	3-20 ⁺ 2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-24	250X450	3-20 ⁺	3-20 ⁺	3-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-25	250X450	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-26	250X450	3-16 ⁺ 2-20 ⁺	2-16 ⁺	2-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-27	250X450	3-20 ⁺ 2-16 ⁺	2-20 ⁺	3-20 ⁺ 2-16 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-28	250X450	3-20 ⁺	3-20 ⁺	3-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-28A	250X450	3-20 ⁺ 2-16 ⁺	3-20 ⁺	3-20 ⁺ 2-16 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-29	250X450	3-16 ⁺	3-16 ⁺	3-16 ⁺	3-16 ⁺	3-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-30	250X450	2-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-31	250X450	3-16 ⁺	3-16 ⁺	3-16 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-32	250X450	2-16 ⁺	2-16 ⁺	4-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-33	250X450	4-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-34	250X450	2-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-35	250X450	3-16 ⁺	3-16 ⁺	3-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-35A	250X450	3-16 ⁺	3-16 ⁺	3-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-35B	250X450	3-16 ⁺	3-16 ⁺	3-16 ⁺	2-16 ⁺	2-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-36	250X450	4-16 ⁺	2-16 ⁺	2-16 ⁺	2-16 ⁺	4-16 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-37	250X450	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 3-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-38	250X575	3-20 ⁺ 3-20 ⁺	2-20 ⁺	3-20 ⁺ 3-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
B-39	250X575	3-20 ⁺ 2-20 ⁺	2-20 ⁺	3-20 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
B-40	250X575	2-16 ⁺	2-16 ⁺	3-16 ⁺ 2-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 150 C/C	
C.B-1	600X175	6-16 ⁺	6-16 ⁺	6-16 ⁺	6-16 ⁺	6-16 ⁺	8 ⁺ -4L @ 100 C/C	8 ⁺ -4L @ 150 C/C	
MLB-1	250X450	3-20 ⁺	3-20 ⁺	3-20 ⁺	3-20 ⁺	3-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	
MLB-2	250X450	3-20 ⁺ 2-16 ⁺	3-20 ⁺ 2-16 ⁺	3-20 ⁺ 2-16 ⁺	3-16 ⁺ 2-20 ⁺	3-16 ⁺ 2-20 ⁺	8 ⁺ -2L @ 100 C/C	8 ⁺ -2L @ 100 C/C	

- NOTES:-
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
 - SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF 1ST CLASS BRICK WITH 1:6 CEMENT MORTAR.
 - GRADE OF CONCL. M-25, OTHERWISE MENTIONED
 - ALL MATERIALS SHALL CONFORM TO RELEVANT I.S CODES.
 - FOR STEEL GRADE Fe 500 AS PER I.S 1786-2008
 - LAPS, SPLICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS THE SMALLEST BAR DIA.
 - ALL DISTRIBUTION BARS ARE 8 TOR @ 200 C/C AND TO BE PROVIDED WHEREVER REQUIRED
 - ALL SPACER BARS ARE 25 TOR @ 1000 C/C AND TO BE PROVIDED WHEREVER REQUIRED
 - MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBER	TOP	BOTTOM	SIDE
a. BEAM	30	30	30
b. COLUMN	—	—	40
c. SLAB	25	25	25
d. FDN	50	75	50

Space for office use:

THIS IS TO CERTIFY THAT I SHALL NOT ON A LATER DATE, MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING. FOR ANY KIND OF ADDITION OR ALTERATION FROM THIS PLAN, CONCERNED ENGINEERS SHALL NOT BE RESPONSIBLE.

SIGNATURE OF THE OWNER

SIGNATURE OF ARCHITECT/L.B.S

THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN DESIGNED BY ME, CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT IF IT IS CONSTRUCTED BASED ON THIS VETTED DRAWING AND FOR THE PURPOSE OF ITS INTENDED USE FOR WHICH IT HAS BEEN DESIGNED.

SIGNATURE OF STRUCTURAL ENGINEER:

Civil & Structural Consultants:
M/S. SDN CONSULTANT
Civil & Structural Engineers
26/3/1A Surya Sen Street.
Kolkata-700009
Ph.no.-9123025265
E-MAIL: sdncon2024@gmail.com

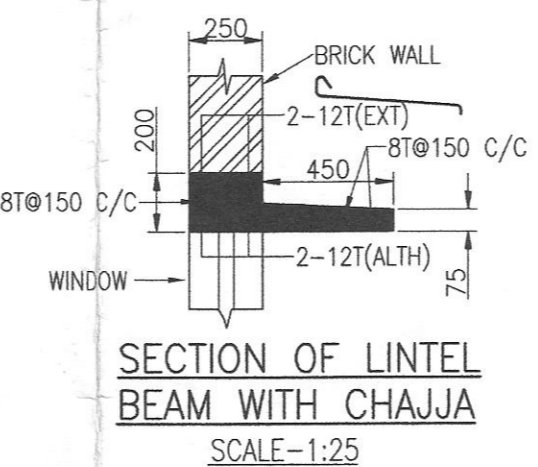
PROJECT :
PROPOSED SIX (B+G+5) STORIED RESIDENTIAL APARTMENT OF SRI. ANAND PANDEY, S/O- LATE NARENDRA NATH PANDEY OVER R.S PLOT NO:- 195 /340, L.R.PLOT NO.-511, L.R KHATIAN NO:- 13294 J.L. NO - 37, OF MOUZA - BENAGORIA, P.S.- SALANPUR, DIST. - PASCHIM BARDHMAN UNDER RUPNARAYAN GRAM PANCHAYAT, WEST BENGAL.

TITLE: BEAM G.A & R.C.C DETAIL
DRAWN BY- SUDIPTA DATE - 15.01.2026 SHEET NO. - 01/01
CHECKED BY - DEBJYOTI SCALE - 1:100, 20, 30 REVISION - 00
JOB NO. - 193/12-2025
DRG. NO. - SDN/STR/193/ANAND_KUMAR/12-2025
STATUS INFORMATION APPROVAL SUBMISSION

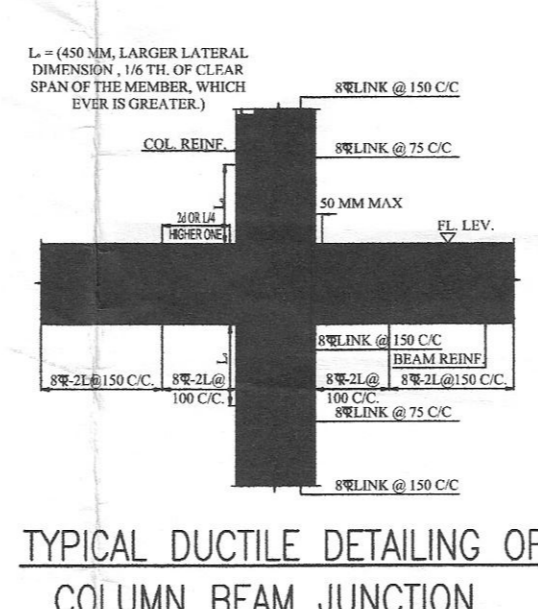
SCHEDULE OF FLOOR SLAB:
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

SLAB MKD.	SLAB THICKNESS (MM)	REINFORCEMENT			
		SHORTER SPAN		LONGER SPAN	
		SUPPORT (TOP)	SPAN (BOTTOM)	SUPPORT (TOP)	SPAN (BOTTOM)
S1	125	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 200 C/C	8 ⁺ @ 150 C/C
S2	125	8 ⁺ @ 125 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C
S3	125	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C
S4	125	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 200 C/C	8 ⁺ @ 150 C/C
S5	125	8 ⁺ @ 125 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 125 C/C	8 ⁺ @ 150 C/C
S6	125	8 ⁺ @ 200 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 200 C/C	8 ⁺ @ 150 C/C
S7	175	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 200 C/C
S8	175	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 150 C/C
S9	150	8 ⁺ @ 100 C/C	8 ⁺ @ 150 C/C	8 ⁺ @ 200 C/C	8 ⁺ @ 200 C/C
STAIR	150	12 ⁺ @ 125 C/C (MAIN) WITH 10 ⁺ @ 200 C/C (DIST.)			

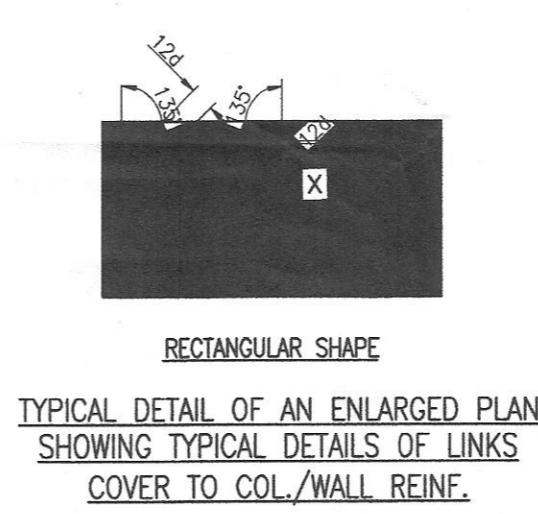
PROVIDE 10⁺@ 200 C/C DISTRIBUTOR BAR WHERE EVER REQUIRED



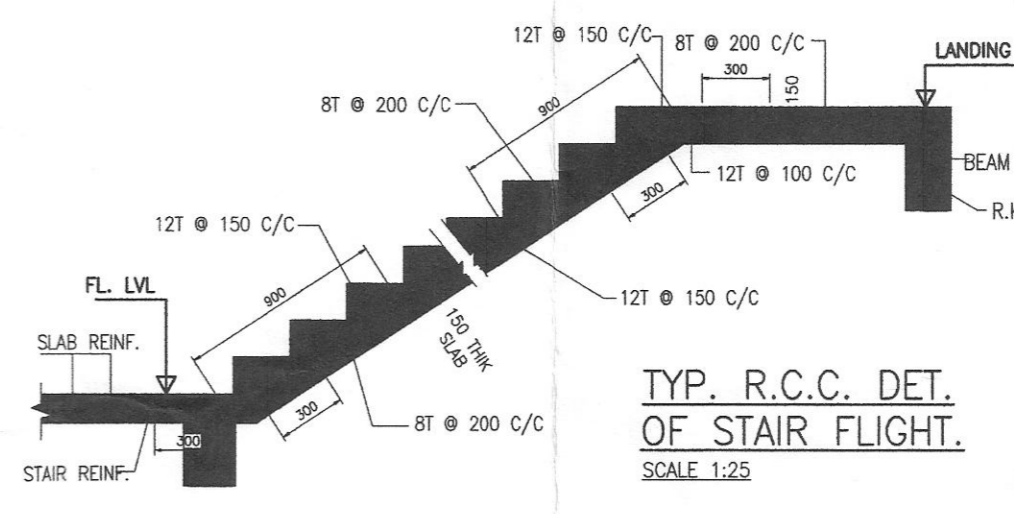
SECTION OF LINTEL BEAM WITH CHAJJA
SCALE=1:25



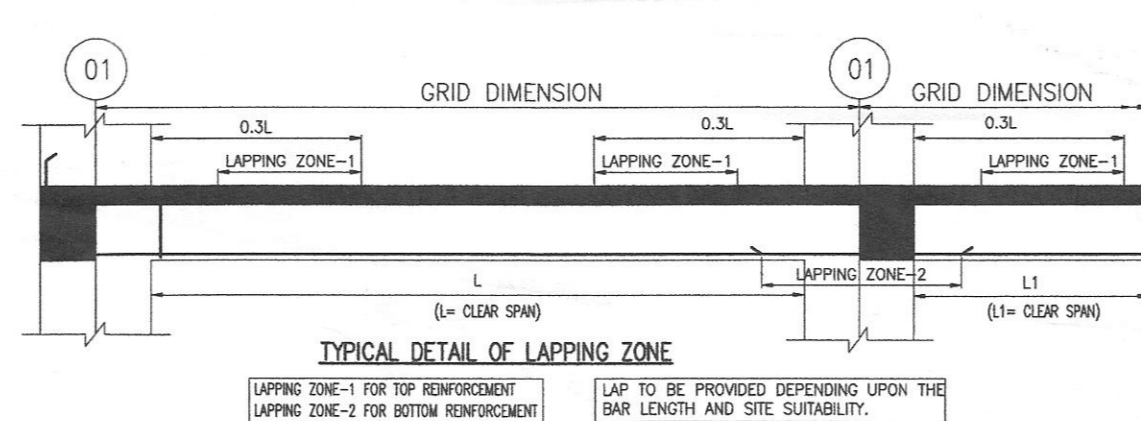
TYPICAL DUCTILE DETAILING OF COLUMN BEAM JUNCTION



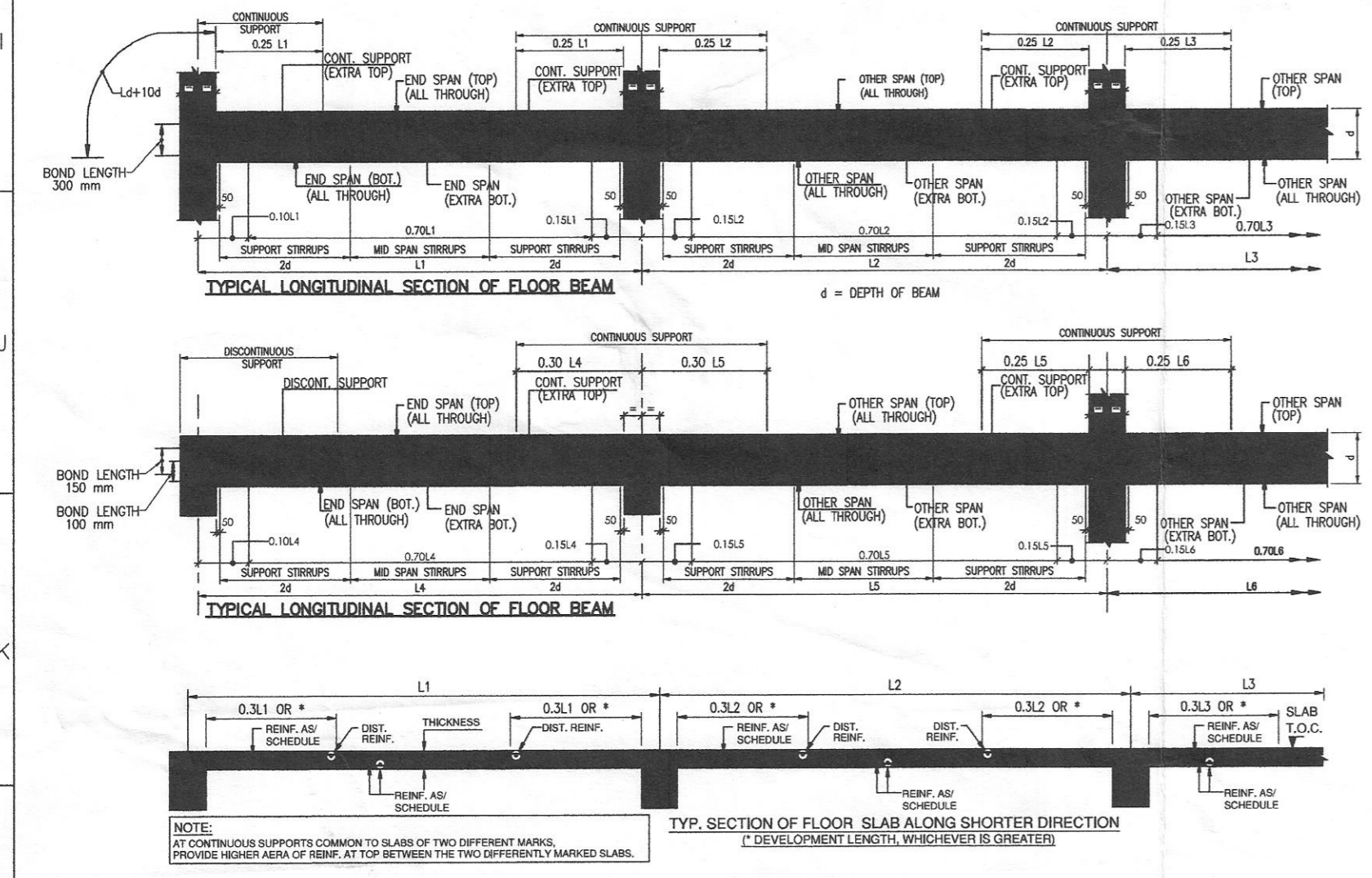
RECTANGULAR SHAPE



TYP. R.C.C. DET. OF STAIR FLIGHT.
SCALE 1:25



TYPICAL DETAIL OF LAPPING ZONE



TYP. SECTION OF FLOOR SLAB ALONG SHORTER DIRECTION

NOTE: AT CONTIGUOUS SUPPORTS COMMON TO SLABS OF TWO DIFFERENT MARKS, PROVIDE REINFORCING AREA OF REINF. AT TOP BETWEEN THE TWO DIFFERENTLY MARKED SLABS.