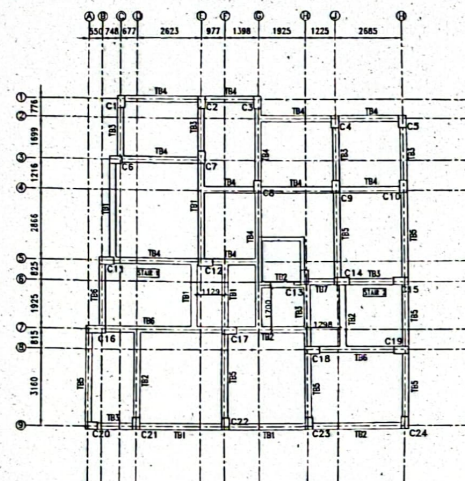
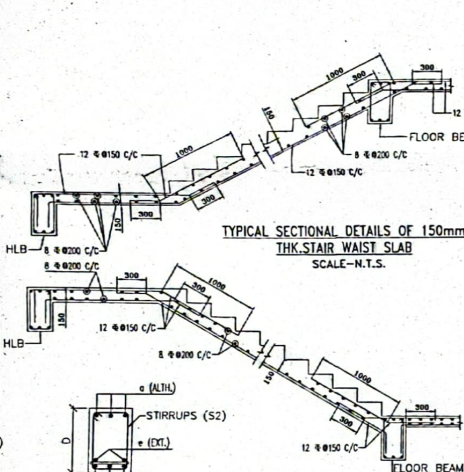




TIE BEAM LAYOUT PLAN AT LEVEL $(\pm)0.00m$.
SCALE-1:100



AT SPAN

Figure 1: Typical Reinforcement Detail for a Column. The diagram illustrates the reinforcement layout for a column, showing the placement of longitudinal bars (S1, S2) and transverse bars (SPACER BAR, HOOP). Key dimensions and labels include: 0.25L1, 50 Max., 0.25 of CREATR, 0.15L1 to 0.15L2, HOOP SPACING > c/4 & Bd6, and sections L1 and L2.

TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
(SCALE-N.T.S)

SCHEDULE OF COLUMNS						
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 4TH FLOOR	FOUNDATION TO ROOF & ABOVE ROOF	STAIRUP ARRANGEMENT & SPACING NEAR JUNCTION(°)	REST PORTION
C1,C5,C22, C23	04	300X500	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	8-875 C/C (3 NOS. CLOSED UMS)	8-8150 C/C (3 NOS. CLOSED UMS)
C11,C12,C13, C14,C17	05	300X600	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	8-875 C/C (3 NOS. CLOSED UMS)	8-8150 C/C (3 NOS. CLOSED UMS)
C2,C3,C4,C7, C8,C9,C20	07	300X500	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	8-875 C/C (3 NOS. CLOSED UMS)	8-8150 C/C (3 NOS. CLOSED UMS)
C6,C10, C21,C24	04	300X500	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	8-875 C/C (3 NOS. CLOSED UMS)	8-8150 C/C (3 NOS. CLOSED UMS)
C15,C18,C19	03	300X600	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	8-875 C/C (3 NOS. CLOSED UMS)	8-8150 C/C (3 NOS. CLOSED UMS)
C16	01	300X800	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	MAIN RNF.:- 4-20ϕ + 4-20ϕ + 8-16ϕ	8-875 C/C (3 NOS. CLOSED UMS)	8-8150 C/C (3 NOS. CLOSED UMS)

SCHEDULE OF STOOL COLUMNS				
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ADJCT. ROOF	STRIPB. BRACKETING & SPACING
ST1 (ROOF TO WATER TANK)	C1	250x250		80x150 C/C (1 NO. CLOSED L/W)
ST1.73 (ROOF TO LAB ROOF)	C2	250x250		80x150 C/C (1 NO. CLOSED L/W)

BEAM MARK	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTERNATE (mm)	CENTRAL SUPPORT (mm)	ALTERNATE (mm)	CENTRAL SPAN (mm)		
TB1	230	400	3-12 @	②	3-12 @	②	2L-6 @ 100 C/C	2L-6 @ 200 C/C
TB2	230	400	3-12 @	2-12 @	3-12 @	-	2L-6 @ 100 C/C	2L-6 @ 200 C/C
TB3	230	420	3-12 @	-	3-12 @	-	2L-6 @ 220 C/C	2L-6 @ 220 C/C
TB4	230	420	3-12 @	-	3-12 @	-	2L-6 @ 100 C/C	2L-6 @ 200 C/C
TB5	230	420	3-12 @	-	3-12 @	-	2L-6 @ 100 C/C	2L-6 @ 200 C/C
TB6	250	400	3-12 @	3-16 @	-	-	2L-6 @ 100 C/C	2L-6 @ 200 C/C
TB7	250	400	-	-	-	-	2L-6 @ 100 C/C	2L-6 @ 100 C/C

1. 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.

2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	
	WIDTH (IN)	DEPTH (IN)	ALTHOUGH	EXTRA AT SPANS	ALTHOUGH	EXTRA AT SPAN	UP STAIR	DOWN STAIR
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11E1	250	400	3-12 @	-	3-12 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E2	250	450	3-12 @	-	3-12 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E3	250	450	3-16 @	3-16 @	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E4	250	450	3-20 @	-	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 10" C/C
11E5	250	450	3-20 @	2-16 @	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E6	250	450	3-16 @	3-20 @	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E7	250	450	3-16 @	-	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 10" C/C
11E8	250	450	3-20 @	-	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E9	250	450	3-16 @	3-12 @	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
11E10	250	450	-	-	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C
H1E1	250	450	-	-	3-16 @	-	2L-8 @ 10" C/C	2L-8 @ 10" C/C
H1E2	250	450	-	-	3-12 @	-	2L-8 @ 10" C/C	2L-8 @ 10" C/C
H1E3	250	450	3-12 @	-	3-12 @	-	2L-8 @ 10" C/C	2L-8 @ 20" C/C

COLUMN & TIE BEAM LAYOUT PLAN WITH REINF. DETAILS, REINF. DETAILS OF FLOOR BEAM, & DETAILS OF STAIR.

SCALE:-1:100 OR AS SHOWN