

**FOOTING SCHEDULE (M25:Fe500)**

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION				PEDESTAL SIZE (L x B) ** HEIGHT AS PER REQUIRED	FOOTING REINFORCEMENT	
			L	B	D1	D		ALONG B	ALONG L
F1	C1,C2,C3,C4, C5,C8,C9,C12	SLOPED	2400	2400	200	350	500x450 4NOS10% LBAR B/W	T12@150 C/C	T12@150 C/C
F2	C15,C19,C21,C22,C23	SLOPED	2600	2600	200	400	550x450 4NOS10% LBAR B/W	T12@150 C/C	T12@150 C/C
F3	C20,C24	SLOPED	2200	2200	200	350	550x450 4NOS10% LBAR B/W	T12@150 C/C	T12@150 C/C
F4	C6+C7	COMBINED	6550	3100	250	450		T16@150 C/C	T16@150 C/C
F5	C10+C11+C13+C14 +C16+C17+C18	RAFT	AS PER DRAWING		400	400	TOP LAYER BOTTOM LAYER	T10@150 C/C T12@125 C/C	T10@150 C/C T12@125 C/C

**FOUNDATION BEAM SCHEDULE (M25:Fe500)**

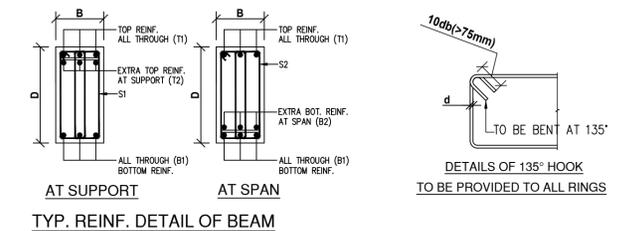
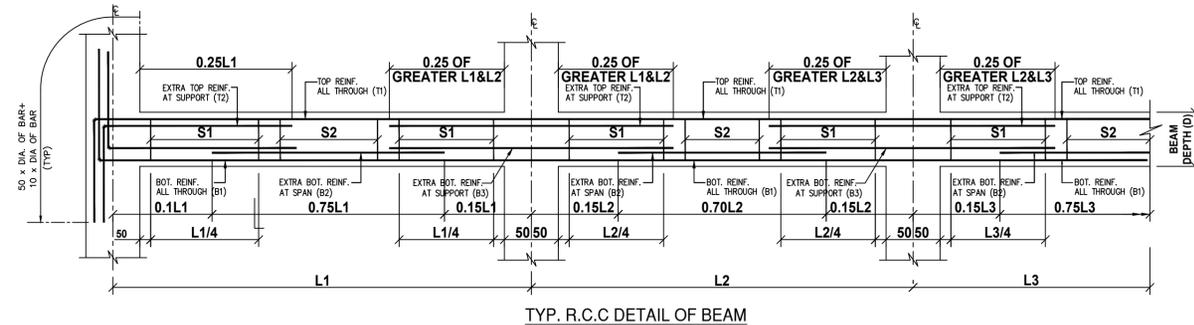
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B1	D2	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)
SB1	600	700	+ 5-T16 + 5-T16	+ 5-T16	5-T16	5-T16	4L-T8@125 C/C	4L-T8@125 C/C
SB2	600	700	+ 6-T16 + 6-T16	+ 6-T16	6-T16	6-T16	4L-T8@125 C/C	4L-T8@125 C/C

**COLUMN SCHEDULE (M25:Fe500)**

STAIR ROOF TO FOUNDATION	M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM		M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM		M25 : Fe500 , COVER = 40MM CONFINING ZONE = 500 MM	
	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT	SPAN
	T8 @ 125	T8 @ 150	T8 @ 125	T8 @ 150	T8 @ 125	T8 @ 150
						
COLUMN MARKED	C16,C18		C6,C7,C10,C11,C13,C14,C17,C21,C22,C23		C1,C2,C3,C4,C5,C8,C9,C12,C15,C19,C20,C24	

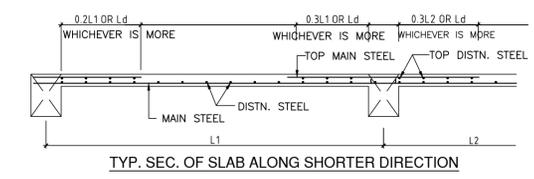
**TIE BEAM SCHEDULE (M25:Fe500)**

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
TB1	250	400	3-T16	+ 3-T16 + 2-T16	3-T16	3-T16	+ 3-T16 + 2-T16	3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
TB2	250	400	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
TB3	250	300	3-T16	3-T16	3-T16	3-T16	3-T12	3-T12	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C



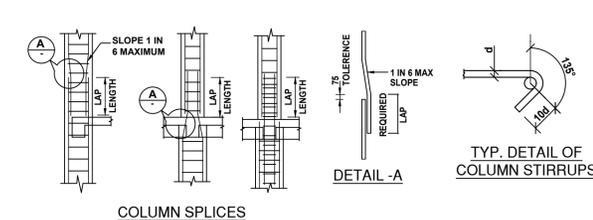
**FLOOR BEAM SCHEDULE (M25:Fe500)**

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
B1	250	400	3-T16	+ 3-T16 + 2-T16	3-T16	+ 3-T16 + 3-T16	+ 3-T16	+ 3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
B2	250	400	3-T16	+ 3-T16 + 2-T16	3-T16	+ 3-T16 + 2-T16	+ 3-T16	+ 3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
B3	250	400	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C
B4	250	300	3-T16	3-T16	3-T16	3-T12	3-T12	3-T12	2L-T8 @ 125 C/C	2L-T8 @ 150 C/C



**FLOOR SLAB SCHEDULE (M25 : Fe500)**

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT			TOP REINFORCEMENT	
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SPAN	OVER SHORT SUPPORT	OVER SHORT SUPPORT
S1	115	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 150 C/C
S2	115 to 150	T8 @ 150 C/C	T8 @ 150 C/C	T10 @ 150 C/C	T10 @ 150 C/C	T10 @ 150 C/C



**NOTES :-**

**A. GENERAL:**

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
- DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.

**B. CONCRETE WORK:**

- ALL CONCRETE WORK SHALL BE AS PER IS:456 (LATEST REVISION)
- ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
  - a). THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M25 & M20
- PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
  - a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS , PIT, TRENCHES ETC.
  - b). M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
- THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

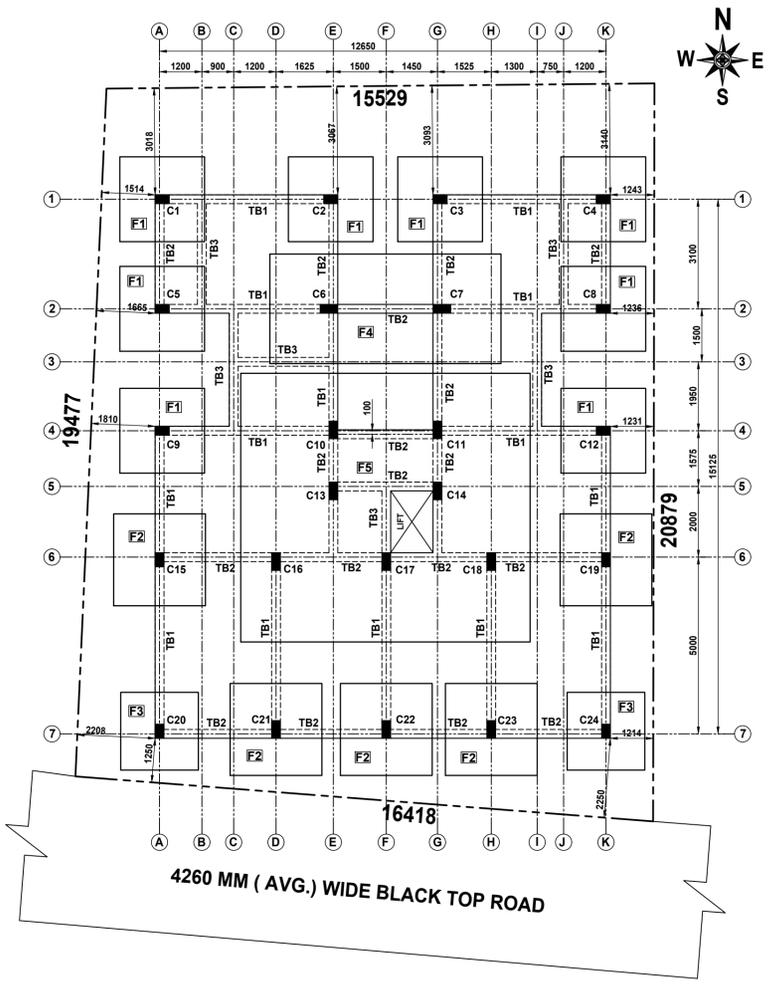
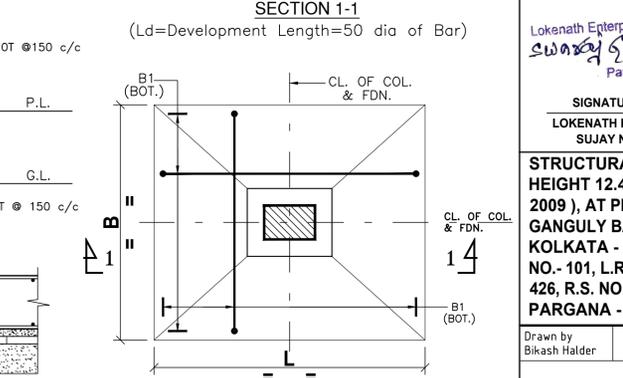
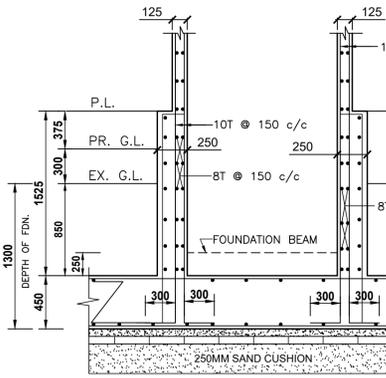
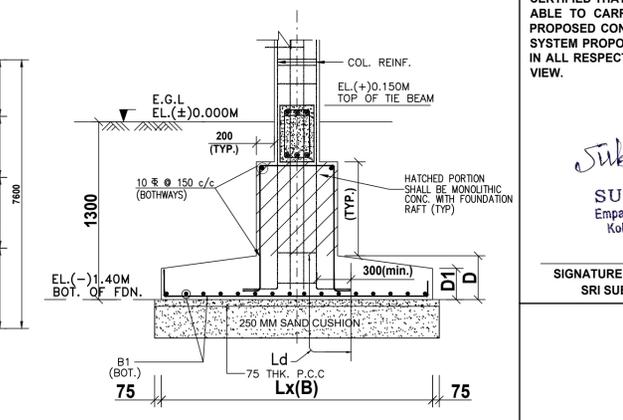
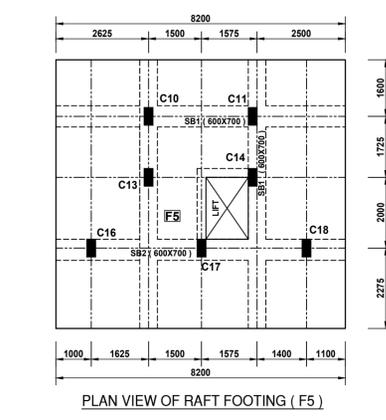
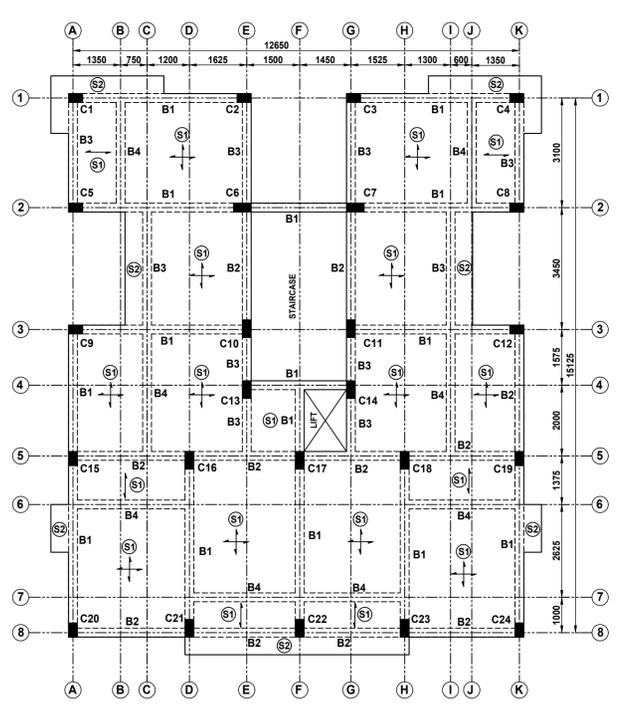
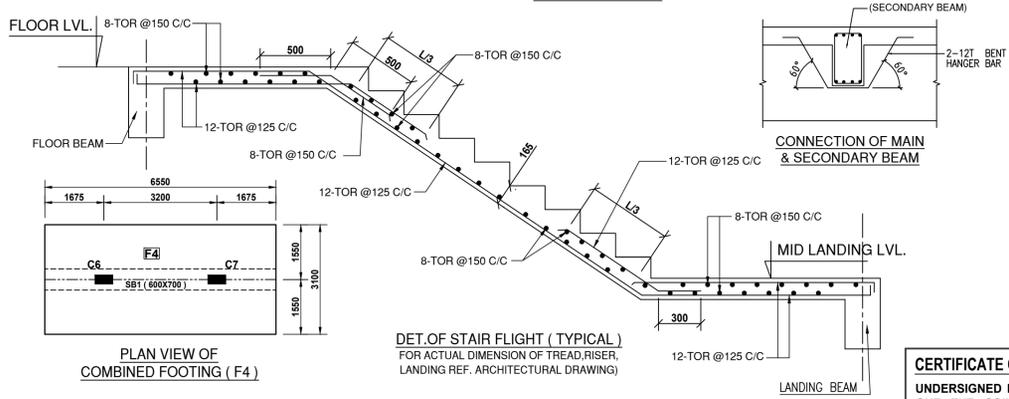
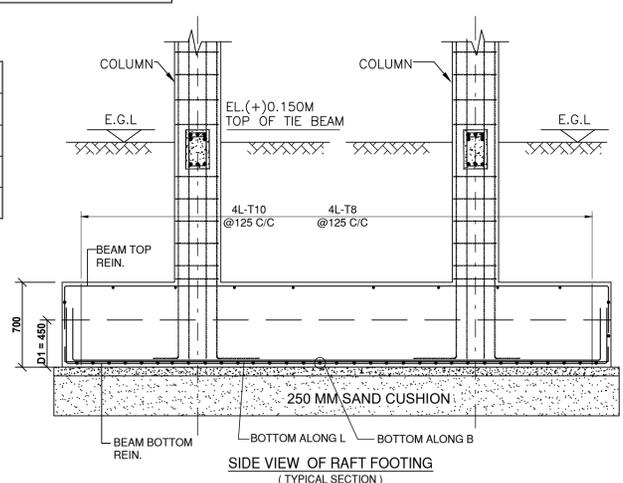
STRUCTURAL ELEMENT	COVER		
	TOP	BOTTOM	SIDES
a). PLINTH BEAM	25	40	40
b). COLUMNS	50	-	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50

**C. REINFORCEMENTS:**

- ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
- (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS  $F_y = 500 \text{ N/MM}^2$ ) SHALL CONFORM TO IS:1786. (LATEST REVISION)
- LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
- ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
- THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	41xD	33xD

- LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
- LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
- DEVELOPMENT LENGTH ( $L_d$ ) =  $50 \times \text{dia}$  OF THE BAR  $\geq 10 \times \text{dia}$  OF THE BAR.
- ALL SPACER BARS ARE 250mm  $\phi$  450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.



**4260 MM ( AVG. ) WIDE BLACK TOP ROAD**

**CERTIFICATE OF GEO-TECHNICAL ENGINEER :-**

UNDERSIGNED HAS INSPECTED THE SITE CARRIED OUT THE SOIL INVESTIGATION THEREIN. IT IS CERTIFIED THAT THE EXISTING SOIL OF THE SITE IS ABLE TO CARRY THE LOAD COMING FROM THE PROPOSED CONSTRUCTION AND THE FOUNDATION SYSTEM PROPOSED THEREIN IS SAFE AND STABLE IN ALL RESPECT FROM GEO -TECHNICAL POINT OF VIEW.

**SUBHANKAR ROY**  
Empanelled Geotechnical Engineer  
Kolkata Municipal Corporation  
E.G.T. No.-5, Class-I

**CERTIFICATE OF STRUCTURAL ENGINEER :-**

CERTIFIED WITH FULL RESPONSIBILITY THAT THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME , CONSIDERING ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

**Manash M.G. Majumder**  
(M.Tech.-Struct.)  
Empanelled Structural Engineer,  
Kolkata Municipal Corporation  
E.S.E. No.-II/586

**SIGNATURE OF GEO-TECHNICAL ENGINEER**  
SRI SUBHANKAR ROY ,G.T.E. /I/ 05

**SIGNATURE OF E.S.E.**  
MANASH M.G. MAJUMDER, ESE / II / 586

**SIGNATURE OF OWNERS / PARTNERS**  
LOKENATH ENTERPRISE, PARTNERSHIP FIRM  
SUJAY NASKAR & SWARAJ GHOSH

**SIGNATURE OF IBS**  
MANASH M.G. MAJUMDER, IBS / I/ 1078

**STRUCTURAL DRAWING FOR G+III STORIED RESIDENTIAL BUILDING OF HEIGHT 12.475 MT. ( U/S 393A OF K.M.C. ACT 1980 & K.M.C. BLDG. RULE - 2009 ), AT PREMISES NO.- 179, ASHOKE ROAD, ( MAILING ADDRESS - 44 / A, GANGULY BAGAN EAST ROAD ), WARD NO.- 101, BOROUGH - XII, P.S.- PATULLI, KOLKATA - 700084, C.S. DAG NO.- 711, C.S. KHATIAN NO.- 130, R.S. KHATIAN NO.- 101, L.R. DAG NO.- 673, L.R. KHATIAN NOS.- 419,420,421,422, 423,424,425 & 426, R.S. NO.- 17, TOUZI NOS.- 246, 1516-1518, J.L. NO.- 31, MOUZA- BADEMASAR, PARGANA - KHASPUR, UNDER THE KOLKATA MUNICIPAL CORPORATION**

Drawn by: Bikash Halder | Checked by: M.M.G.M. | Approved by - date: M.M.G.M. - 29/12/23 | Filename: S-5 / 20 / 393A / 07 / 23-24 | Date: 28/12/2023 | Scale: 1:100, 50,600,4000

**Space-S**  
A House of Civil & Architectural Consultancy  
E-30A, RAMGARH, KOLKATA-700 047.  
(M) - 9830424400, 9808915153

LAYOUT PLANS, TYPICAL SECTIONAL, DETAILS & SCHEDULES

PREMISES NO.- 179, ASHOKE ROAD | Revision: 0 | Sheet: 1/1

**ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.**