

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,C5	SLOPED	1800	1800	200	350	400x550 4NOS10% L BAR B/W	T12@150 C/C	T12@150 C/C
F2	C2,C3,C4,C6,C10	SLOPED	2000	2000	200	350		T12@150 C/C	T12@150 C/C
F3	C7,C9,C18	SLOPED	2100	2100	200	350		T12@150 C/C	T12@150 C/C
F4	C8,C11,C15	SLOPED	2400	2400	200	400		T12@125 C/C	T12@125 C/C
F5	C14,C16,C17	SLOPED	2200	2200	200	350		T12@150 C/C	T12@150 C/C
F6	C12+C13	COMBINED	5500	3000	250	400		T12@125 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	500	600	5-T16 +5-T16	5-T16	5-T16	5-T16 +3-T16	4L-T10@125 C/C	4L-T10@150 C/C

TIE BEAM SCHEDULE (M25:Fe500)

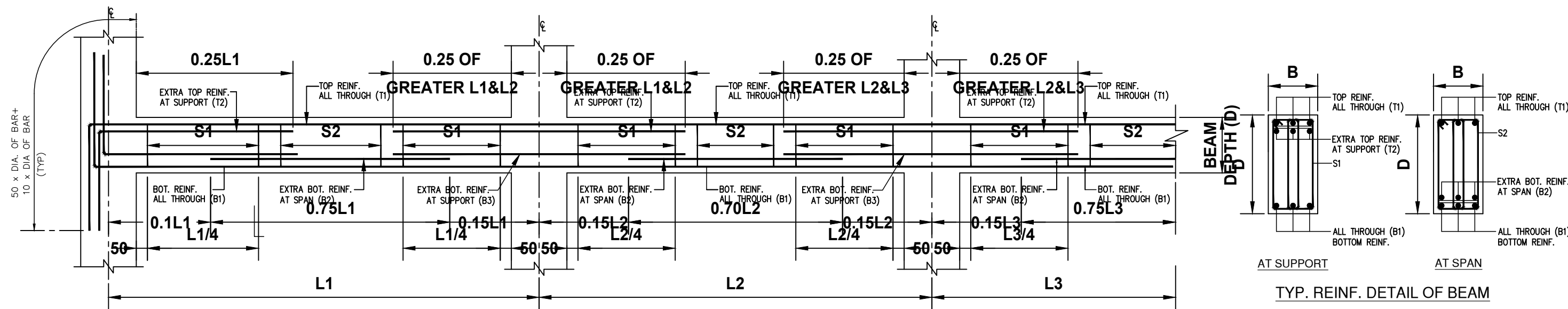
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
TB1	250	350	3-T12	3-T12 +2-T12	3-T12	3-T16 +2-T12	3-T16	3-T16 +2-T12	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
TB2	250	350	3-T12	3-T12	3-T12	3-T16 +2-T12	3-T16	3-T16 +2-T12	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
TB3	250	350	3-T12	3-T12	3-T12	3-T16	3-T16	3-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
TB4	250	350	3-T12	3-T12	3-T12	3-T16 +2-T16	3-T16 +2-T16	3-T16 +2-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C

FLOOR BEAM SCHEDULE (M25:Fe500)

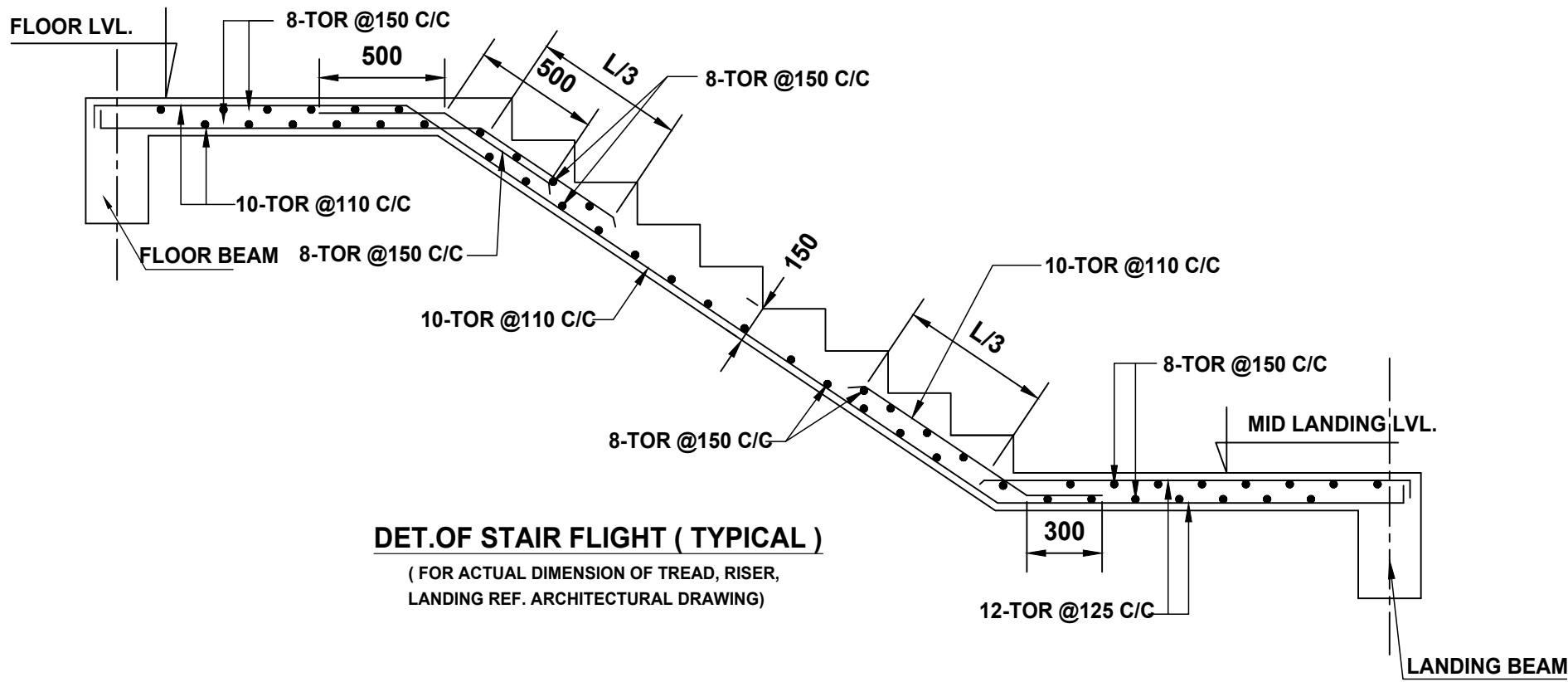
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	SUPPORT	SPAN
B1	250	350	3-T16	3-T16 +2-T16	3-T16	3-T16 +2-T16	3-T16	3-T16 +2-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
B2	250	350	3-T16	3-T16	3-T16	3-T16 +2-T16	3-T16	3-T16 +2-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
B3	250	350	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
B4	250	350	3-T16	3-T16	3-T16	3-T16 +2-T16	3-T16 +2-T16	3-T16 +2-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C
B5	250	350	3-T16	3-T16 +2-T16	3-T16	3-T16	3-T16	3-T16	2L-T8 @ 150 C/C	2L-T8 @ 150 C/C

SCHEDULE OF COLUMN (M25:Fe500)

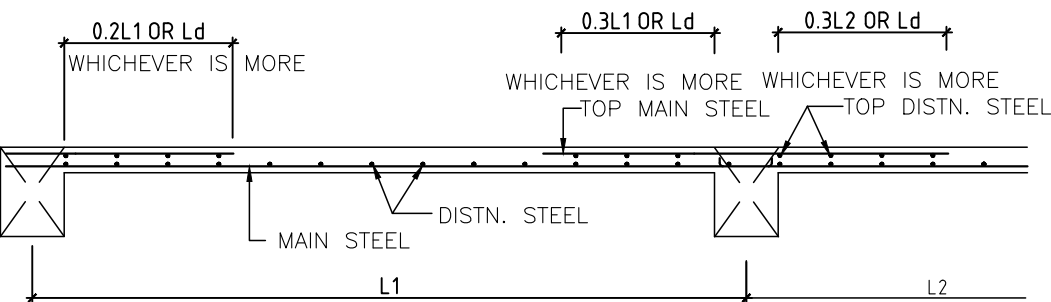
COLUMN MKD.	SIZE (mm)	MAIN REINFORCEMENT	LATERAL TIES REINFORCEMENT
C8,C12,C13	250X400	8-16 Φ + 2-12 Φ	2L 8 Φ @ 150 c/c
C11,C14,C16,C17	250X350	8-16 Φ	2L 8 Φ @ 150 c/c
C1,C2,C3,C4,C5,C6,C7,C9,C10,C15,C18	250X350	6-16 Φ	2L 8 Φ @ 150 c/c



TYP. R.C.C DETAIL OF BEAM

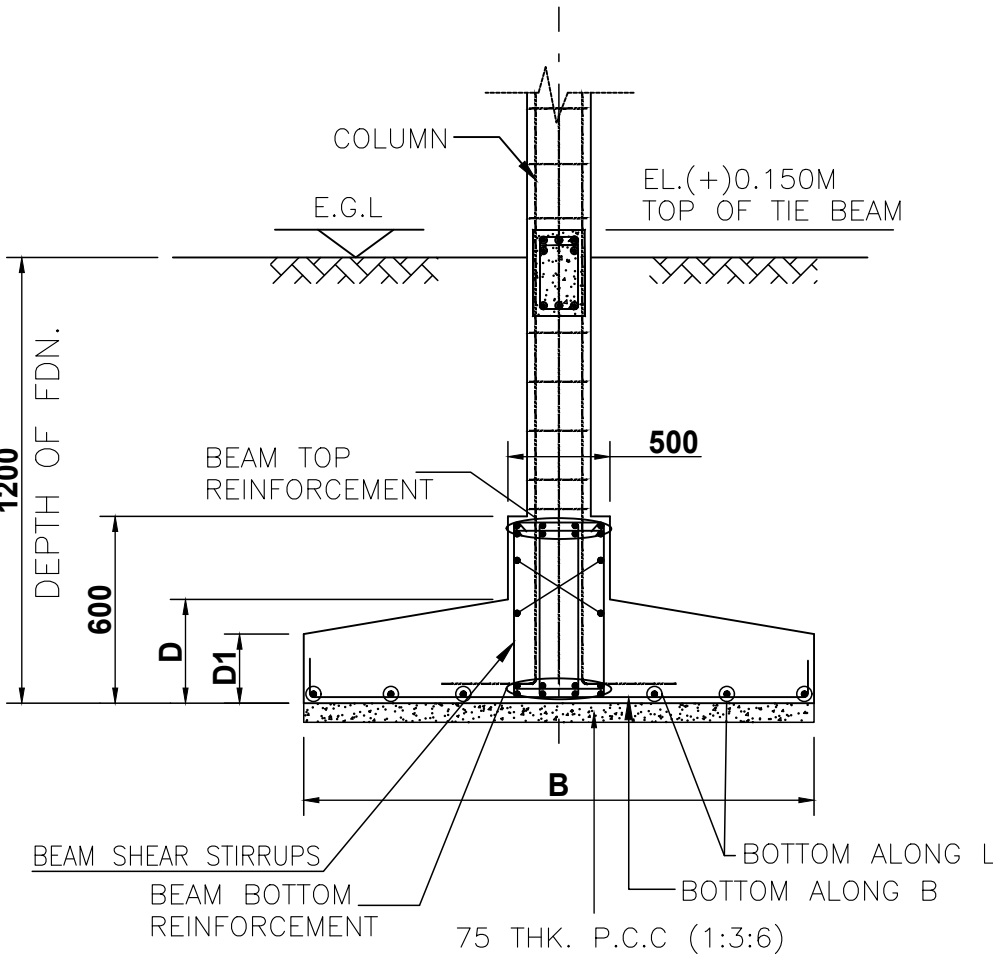


DET.OF STAIR FLIGHT (TYPICAL)
(FOR ACTUAL DIMENSION OF TREAD, RISER, LANDING REF. ARCHITECTURAL DRAWING)

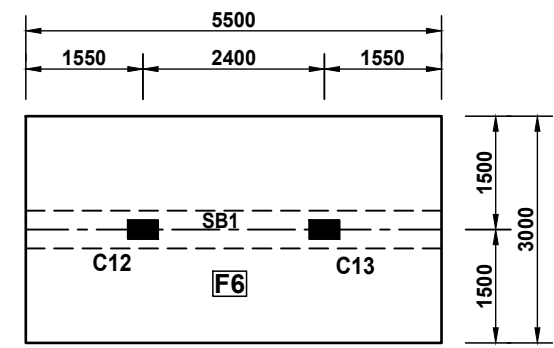


TYP. SEC. OF SLAB ALONG SHORTER DIRECTION

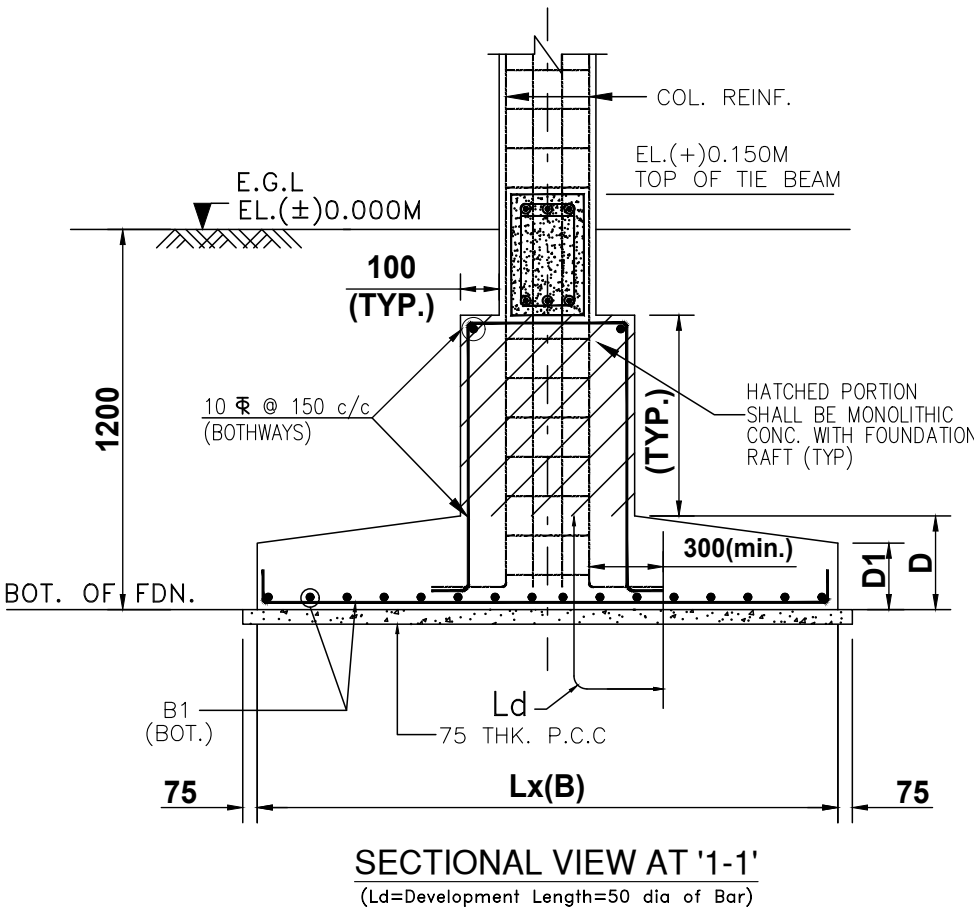
STRUCTURAL ELEMENT	COVER		
	TOP	BOTTOM	SIDES
a). TIE BEAM	25	40	40
b). COLUMNS	50	-	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50



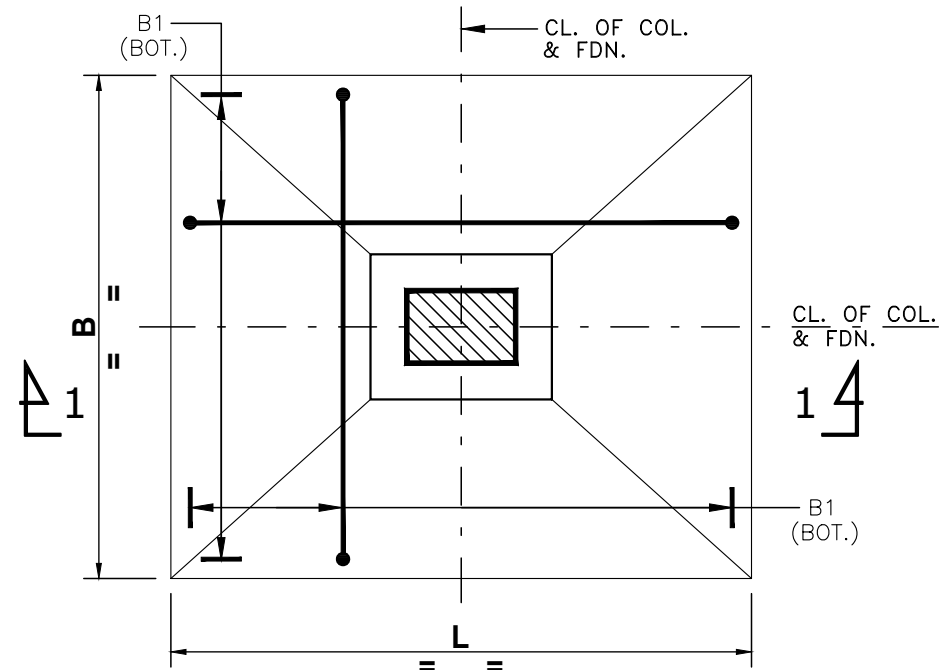
CROSS SECTION OF COMBINED FOOTING
(TYPICAL SECTION)



PLAN VIEW OF STRIP
FOOTING (F6)



SECTIONAL VIEW AT '1-1'
(Ld=Development Length=50 dia of Bar)



TYPICAL ISOLATE FOOTING PLAN (TYPICAL)

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.
 - THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M-25
- PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
 - 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS , PIT, TRENCHES ETC.
 - M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
- THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

C. REINFORCEMENTS:

- ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
- (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS Fe= 500 N/MM².) 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 (Ld) = 50xDIA OF THE BAR+10xDIA OF THE BAR.
- ALL SPACER BARS ARE 250 Φ @450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.

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.-Struc.)
Empanelled Structural Engineer,
Kolkata Municipal Corporation
E.S.E. No.-II/586

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

Mita Das

SMT. MITA DAS (PROPRIETRESS OF MRS. SAYANTIKA ENTERPRISE) AS C. A. FOR SRI SUBHASH GUHA THAKURATA, SMT. UTTARA CHOWDHURY, SRI SOUMENDRA NATH KAR & SUTRISHA KAR

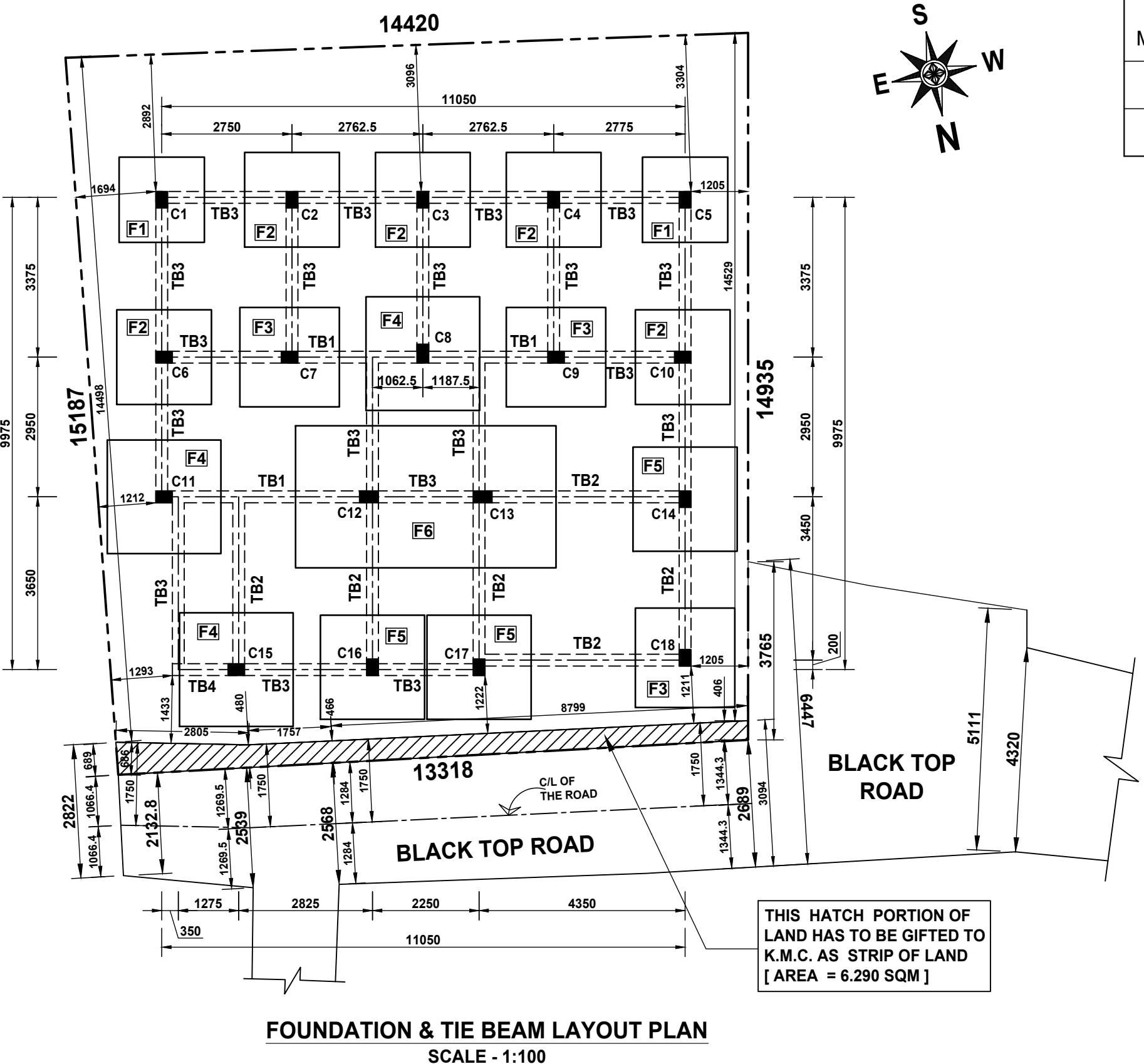
Manash M. G. Majumder
(Civil Engineer)
Class-I LBS, Kolkata Municipal Corporation
LBS NO.- 1078(I)

SIGNATURE OF LBS
MANASH M. G. MAJUMDAR, LBS / II / 1078

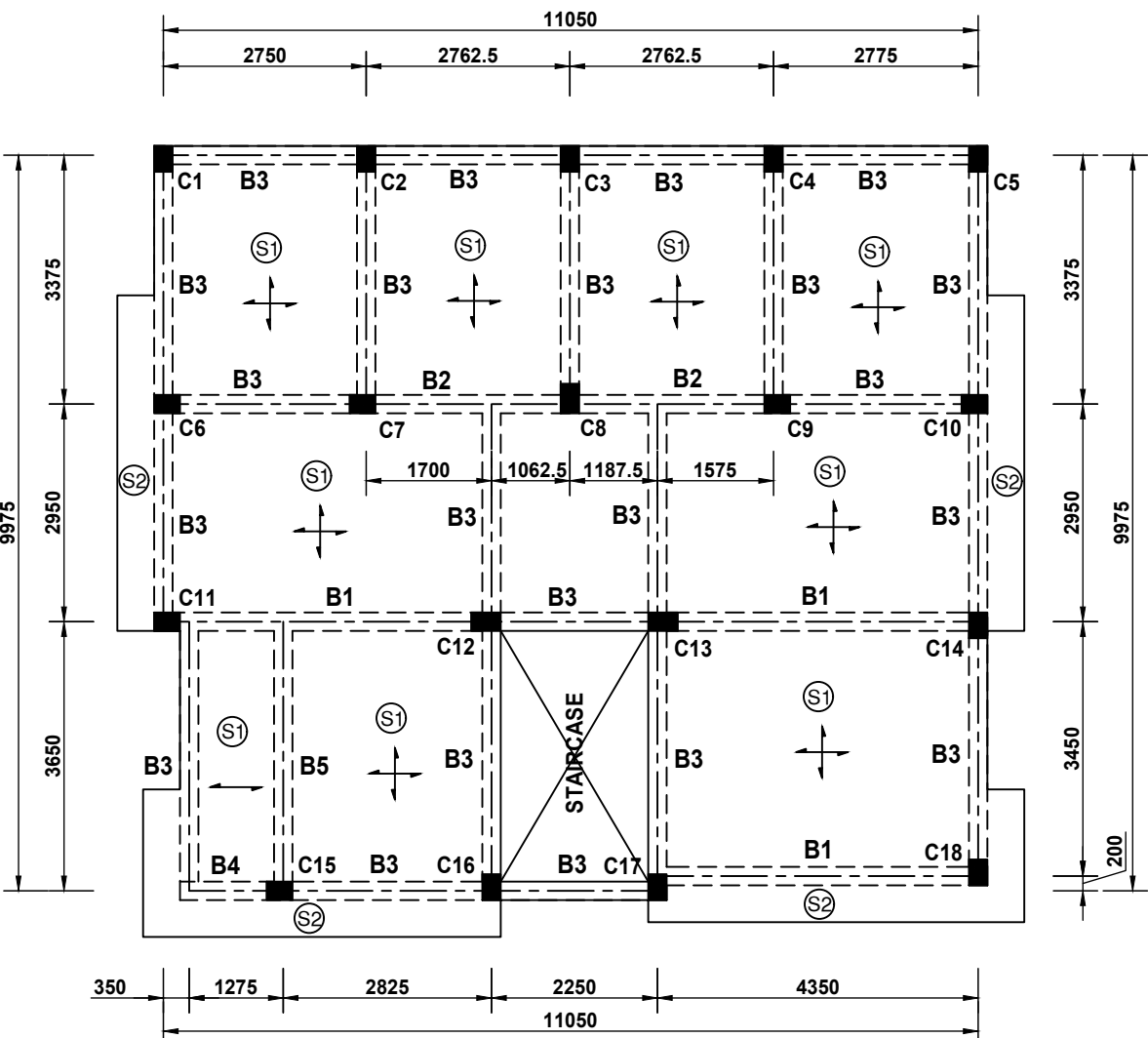
STRUCTURAL DRAWING FOR THREE STORIED RESIDENTIAL BUILDING OF HEIGHT 9.900 MTR. (U/S 393A OF K.M.C. ACT 1980 & K.M.C. BLDG. RULE - 2009 READ WITH CIRCULAR NO.- 7 OF 2019-20, DATED - 01 / 11 / 2019, VIDE MIC METTING NO. MOA- 90.11, DATED - 23 / 10 / 2019) AT PREMISES NO. - 96, ROYPUR, WARD NO.- 101, BOROUGH - XII, P.S.- PATULI, KOLKATA - 700 084, DAG NO.- 1251, KHATIAN NO.- 490, TOUZI NO.- 56, J.L. NO.- 33, MOUZA- RAIPUR, UNDER THE KOLKATA MUNICIPAL CORPORATION

Drawn by Bikash Halder	Checked by M.M.G.M.	Approved by M.M.G.M.	Filename S-5 / 32 / 393A / 14 / 24-25	Date 07/02/2025	Scale 1:100, 50, N.T.S.
Space-S A House of Civil & Architectural Consultancy E- 30A, RAMGARH, KOLKATA - 700 0047 (M) - 9830429400, 9068015133			LAYOUT PLANS, TYPICAL SECTIONAL, DETAILS & SCHEDULES		
PREMISES NO.- 96, ROYPUR			Revision 0	Sheet 1/1	

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.



FOUNDATION & TIE BEAM LAYOUT PLAN
SCALE - 1:100



SLAB BEAM LAYOUT PLAN
SCALE - 1:100