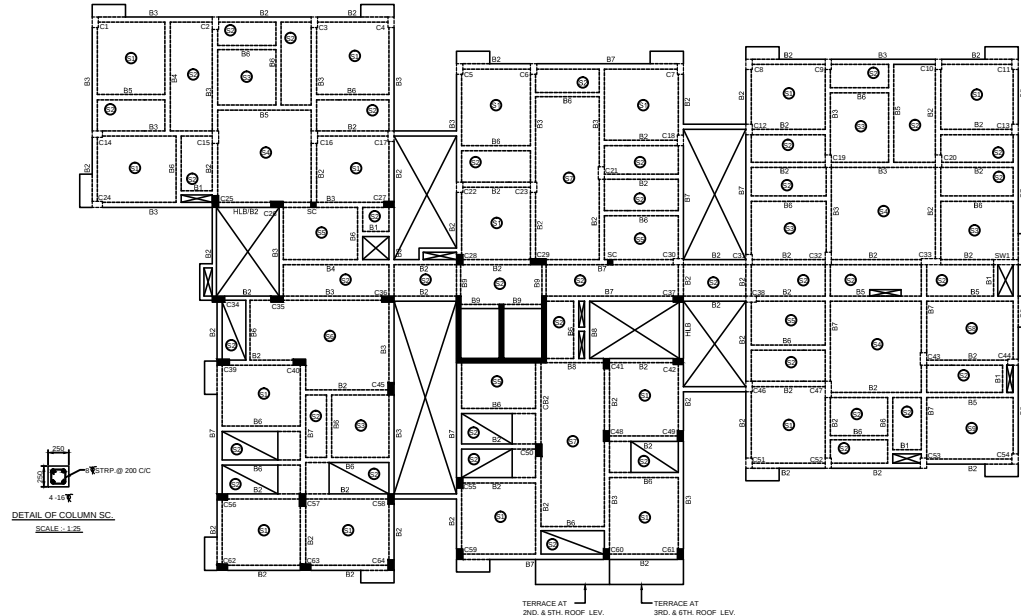
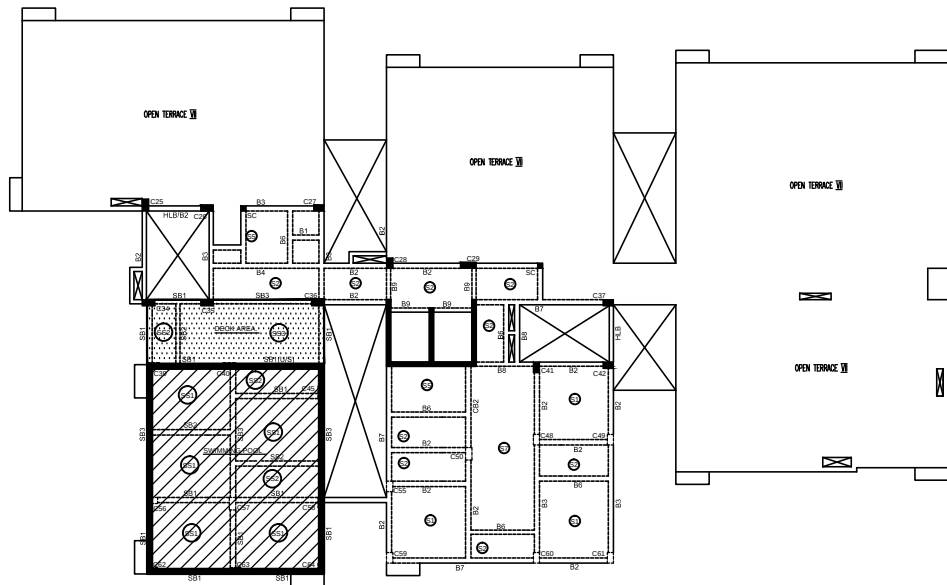


6TH ROOF BEAM LAY-OUT PLAN
SCALE : 1/80



ROOF BEAM LAY-OUT PLAN
SCALE : 1/80

NOTES :-

- 1) ALL DIMENSIONS & DIAMETERS ARE IN MILLIMETER.
- 2) GRADE OF CONC. : ALL DESIGN MIX
- 3) PILE : M25 WITH MINIMUM CEMENT CONTENT @ 400 Kg/CUM OF CONC.
- 4) PILE CAP : M30.
- 5) COLUMN & LIFT : AS PER SCHEDULE.
- 6) REST ALL : AS PER RESPECTIVE FLOOR COLUMNS GRADE OF CONC.
- 7) P.C.C SHALL BE M20 AS PER IS-456.
- 8) TOP STEEL REINFORCEMENT SHALL CONFORM TO LATEST IS-1786 CODES WITH YIELD STRESS 500 MPa.
- 9) CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-
 - a) PILE : 40 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - b) PILE CAP : 75 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - c) FOOTING : 75 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - d) COLUMN : 40 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - e) TIE BEAM : 30 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - f) FLOOR BEAM : 30 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - g) SLAB : 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - h) WAIST SLAB : 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.
- 10) MINIMUM LAP LENGTH :-
 - a) FOR PILE : 40 Ø WITH 3 SETS LAP WELDING IN BOTH SIDES FOR A LENGTH OF 50 MM. FOR REST : LAP LENGTH OF BARS TO BE PROVIDED AS 33Ø Ø DIA OF BAR.

Type of Steel	Value of k for concrete mixes				
	M20	M25	M30	M35	M40
Fe 500	87	49	45	40	35

7) MAXIMUM LOAD ON EACH PILE :-

- FOR 3000 2X100 W. TYPICALS - 55 MT.
AS PER THE SOIL INVESTIGATION REPORT PREPARED BY
BY M/S GEOTECH ENGINEERS PVT. LTD. REP. BY ALOK ROY.
- 8) POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN 50mm. FOR SINGLE PILE, AND 75 mm. FOR GROUP OF PILES SHALL NOT BE PERMITTED.
 - 9) THE PILE HEADS SHALL PROJECT IN TO PILE CAP FOR 50 mm. THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA.
 - 10) ALL TIES TO BE SPOTWELDED WITH VERTICAL REINFORCEMENT.
 - 11) BORINGS OF PILE :-
 - i. BORING SHOULD BE DONE WITH DMC METHOD AND BENTONITE SUSPENSION SHOULD BE USED WITH SP.GR. 1.24 TO 1.2 g/cm³ DURING DRILLING. AS IS-2011 (PART-1) SEC-7(C), 4.3.1.
 - ii. FOR PLACING OF CONCRETE IN PILE BORES, A FUNNEL SHOULD BE USED AND METHOD OF CONCRETING SHOULD BE SUCH THAT THE ENTIRE VOLUME OF THE PILE SHAFT IS FILLED UP WITHOUT THE FORMATION OF VOIDS OR MIXING OF SOIL AND DRILLING FLUID WITHIN CONCRETE.
 - 12) VERTICAL LOAD TESTING OF PILE SHOULD CONFIRM IS-2011 (PART-4).
 - 13) RCC BORED CAST IN SITU PILE SHOULD CONFIRM IS-2011 (PART-1, SEC-B).
 - 14) EXT. TOP & BOTT.
 - i. FLOOR, BEAM, - (i) EXT. TOP TO BE PROVIDED AT L4 FROM SUPPORT.
 - ii. EXT. BOTT. TO BE EXTENDED L4 FROM SUPPORT.
 - iii. SLAB - (i) EXT. TOP TO BE PROVIDED IN ALL SUPPORTS FOR A LENGTH OF L4 FROM SUPPORT.
 - 15) ALL DRAWINGS SHALL BE CORRELATED WITH ARCHITECTURAL DRAWINGS & ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER BEFORE EXECUTION.
 - 16) THIS DRAWING TO BE READ ALONGWITH SPECIFICATIONS & ALL REFERENCE DRAWING.
 - 17) ALL THE WORKS SHALL BE DONE AS PER RELEVANT IS CODE PERTAINING TO WORK.
 - 18) CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE BEFORE EXECUTION OF WORK NO CLAIM WILL BE ENTERTAINED. CONTRACTOR SHALL BE RESPONSIBLE TO PROPER LINE AND LEVEL OF STRUCTURE.
 - 19) DESIGN IS BASED ON AS PER IS-456, IS-475, IS-1803, IS-2011, IS-13920 & SP-16.
 - 20) STRUCTURAL DESIGN IS DONE FOR CH-IV STORIED BUILDING ONLY.
 - 21) SEISMIC ZONE CONSIDERED FOR DESIGN AS ZONE-III & SMRF.

CERTIFICATE OF OWNER

WE CONFIRM THAT THE ERECTION OF BUILDING TO BE UNDERTAKEN SHALL BE STRICTLY IN ACCORDANCE WITH THE WEST BENGAL MUNICIPALITY BUILDING RULES 2007 & AMENDMENT 2016.

CERTIFICATE OF ARCHITECT

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT A PROPOSED 6+VII STORIED RESIDENTIAL BUILDING AT R.S. & L.B. BAG NOB.- 100,101,104,105 & 102 L.B. TRAPAR HOE- 1940,1941,1942,1943,2041,2042,2043,2044 MOUZA-TORIGAMA, T.L. NO.- 10, R.S. NO.- 116, P.S.- BAGMUKHI, WARD NO.- 6, DISTRICT- NORTH 24 PARGANAS, UNDER MUNICIPAL CORPORATION.



LUKE
107 &

SIGN OF GEO-TECHNICAL ENGINEER

CERTIFICATE OF STRUCTURAL ENGINEER

CERTIFIED THAT, "THE STRUCTURAL DRAWING & DESIGN OF BOTH FOUNDATION & SUPER STRUCTURE OF THE BUILDING / BUILDINGS HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT, AS PER THE RULES AND REGULATIONS MADE UNDER THE ACT AND ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD AND THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER THE BUREAU OF INDIAN STANDARD AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT AND THESE PROVISIONS SHALL BE ADHERED TO DURING THE CONSTRUCTION.

SIGN OF STRUCTURAL ENGINEER



STRUCTURAL CONSULTANT
ENGINEERS FORUM
60401, H. P. DUTTA LANE (GOLF GARDEN)
KOLKATA - 71.
PHONE : 3562-7444 / 9874561507
email : enngg_forum2005@yahoo.co.in

ARCHITECT



RAJ AGRAWAL & ASSOCIATES
ARCHITECTS, PLANNERS AND INTERIOR DESIGNERS.
88, ROYD STREET (2ND FLOOR), KOLKATA-71.

PROJECT

PROPOSED 6+VII STORIED RESIDENTIAL BUILDING AT R.S. & L.B. BAG NOB.- 100,101,104,105 & 102 L.B. TRAPAR HOE- 1940,1941,1942,1943,2041,2042,2043,2044 MOUZA-TORIGAMA, T.L. NO.- 10, R.S. NO.- 116, P.S.- BAGMUKHI, WARD NO.- 6, DISTRICT- NORTH 24 PARGANAS, UNDER MUNICIPAL CORPORATION.

TITLE : SANCTION DRAWING (STRUCTURE)

JOB NO. : 08/2024-2025

DRG. NO. : EF/504

DRAWN BY : KATICK

SCALE : 1/100, 1/25

DATE : 30.04.2025

SIGN OF OWNER