(SECTOR-25)

COLUMN & SHEAR WALL LAYOUT
(SECOND BASEMENT FLOOR)

LEGENDS
STRUCTURAL WALL SYSTEM

- COLUMN
- FLOATING COLUMN
- STOP COLUMN
- RETAINING WALL
- NON STRUCTURAL WALL
- SHEAR WALL

NOTE:–
DROP PANEL=500 DEPTH

NOTES :

1. READ THIS DRG. IN CONJUNCTION WITH ARCHITECT'S DRG. , & ANY AMBIGUITY FOUND SHALL BE DISCUSSED WITH OUR OFFICE/ARCHITECT BEFORE EXECUTION.
2. DIMENSION SHALL NOT BE MEASURED/REFFERED FROM THIS DRAWING.
3. CONCRETE GRADES :

FOOTING	RAFT	RET. WL	COL.\SW.	PLINTH B.	BEAMS	SLABS
M--	M--	M--	M--	M--	M---	M--

4. STEEL GRADE FE 500.

YEILD STRENGTH(MIN.) N/mm²	415	500	550
REQUIRED ACTUAL YEILD STRESS(MIN.) N/mm²	498	600	660
MINIMUM ELONGATION %	14.5	14.5	14.5
MAXIMUM RATIO (ULTIMATE STRESS/YIELD STRENGTH)	1.25	1.25	1.25
MINIMUM RATIO (ULTIMATE STRESS/YIELD STRENGTH)	1.15	1.15	1.15

5. S.B.C. OF SOIL IS --- T/m² AS PER SOIL INVESTIGATION REPORT. (TO BE VERIFIED AT SITE)
6. NOMINAL COVER TO MEET 2 HRS PERIOD OF FIRE RESISTANCE (MODERATE)

FOOTING	RAFT	RET. WL\SW.	COLUMN	LIFT PARDI	BEAMS	SLABS
50	50	30	40	30	30	25

7. WE SHALL NOT REMAIN RESPONSIBLE FOR - CONCRETE MIX, QUALITY, SHUTTERING, CURING, CONSTRUCTION MATERIAL, WORKMANSHIP, FAULTY CONSTRUCTION PROCEDURE & SAFETY OF ADJOINING STRUCTURE & THE SAFETY OF LABOUR OR ANY ACCIDENT.
8. WHERE DEPTH OF BEAM EXCEEDS 750MM, FACE BARS TO BE PROVIDED ALONG THE TWO FACES OF BEAM & SHALL BE CONFIRMED FROM OUR OFFICE.
9. IF FOOTINGS COMBINE, DETAILS SHALL BE CONFIRMED FROM OUR OFFICE.
10. EXTRA TOP BARS OVER SUPPORT FOR CANTILEVER LENGTH SHALL BE DOUBLE THE LENGTH OF CANTILEVER +230 OR CANTILEVER LENGTH + 50XD+230 WHICHEVER IS GREATER.

11. FOR BEAMS TOP & BOTTOM BARS TO BE ANCHORED IN END, SUPPORT MINIMUM 300.
12. LEAVE DOWELS FROM BEAM BOTTOM FOR LOFT AND CHAJJA IF ANY
13. DESHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:
    - A) VERTICAL FACES OF COLUMN, BEAMS, & WALL- 16-24 HRS.
    - B) SLABS I) SPANNING UP-TO 4.5M. - 10 DAYS
      II) SPANNING OVER 4.5M. - 14 DAYS
    - C) BEAMS I) SPANNING UP-TO 6.0M. - 14 DAYS + PROPS BELOW.
      II) SPANNING OVER 6.0M. - 21 DAYS + PROPS BELOW.
    - D) CANTILEVER BEAMS - 28 DAYS
14. LAP LENGTH FOR FE500: (d = BAR DIA.)

GRADE-->	M25	M30	M35	M40	M50	M60
BEAM	50d	50d	40d	40d	40d	40d
COLUMN/WALL	40d	40d	36d	36d	36d	36d

* ALL LAPS SHOULD BE STAGGERED & COLUMN LAPS TO BE AT MID-HEIGHT OF FLOOR
15. LEGEND
    HT - TOR STEEL, Ø - MILD STEEL, S.S.- SHORT SPAN, L.S. - LONG SPAN, A.B.BENT-ALTERNATE BARS BENT UP, RW-RETAINING WALL, PB-PLINTH BEAMS, SW-SHEAR WALL
16. HB- HIDDEN BEAM TO BE LAID AFTER SLAB IS FITTED.
17. NO SLEEVES/MEP GROOVES SHALL BE PROVIDED IN BOUNDARY ELEMENT OF SHEAR WALL.
18. SLEEVES IN BEAMS CAN BE PROVIDED AT MID HEIGHT OF BEAM AND TO BE PROVIDED IN L/5 TO L/4 ZONE(IN CO-ORDINATION WITH OUR OFFICE).
19. ALL COLUMNS/SHEAR WALL/SLAB / BEAMS ARE DESIGNED FOR LIGHT WEIGHT BLOCK WORK LOADING WITH MAXIMUM DENSITY NOT MORE THAN 8.5 kN/m³.

Lekh Buildtech Private Limited
Authorized Signatory

KEY ELEVATION

NO	DESCRIPTION	BY	CHK	DATE
R2				
R1				

DRAWN BY	DESIGNED BY	CHECKED BY	DATE
GANESH	AAKASH	KIRAN	09-11-2022

CLIENT :	**M3M INDIA PVT. LTD.**
ARCHITECT :	**GIAN.P.MATHUR & ASSO. PVT. LTD.**
PROJECT :	**PROPOSED COMMERCIAL COMPLEX AT SECTOR 25 - GURUGRAM.**
TITLE :	**SECOND BASEMENT FLOOR LAYOUT**

DRAWING NUMBER:	REVISION
11926-1001-GA	**R0**

DRAWING STATUS:
FOR APPROVAL

STRUDCOM Consultants Pvt Ltd
OFFICE NO. 201, 2nd FLOOR, 'EKDANTA', CTS NO. 136,PLOT NO. 8, ERANDWANE, PUNE - 411004 T: +91 20 29702407, 29702408, 25638847.
E: info@strudcom.com web: www.strudcom.com

DRG. SIZE: ISO A1

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