

BEAM & TIE BEAM SCHEDULE (M20:Fe415) (TIE BEAM MARKED AS 'TB' IN FDN. LAYOUT PLAN)

| BEAM NUMBERS | B | D | BOTTOM REINFORCEMENT | | | TOP REINFORCEMENT | | | SHEAR STIRRUPS | | |
|--------------|-----|-----|----------------------|-------|-------|-------------------|-------|-------|----------------|------------|------------|
| | | | LEFT | MID. | RIGHT | LEFT | MID | RIGHT | LEFT | MID SPAN | RIGHT |
| B1 | 250 | 300 | 2-T16 | 2-T16 | 2-T16 | 2-T16 | 2-T16 | 2-T16 | T8@200 C/C | T8@200 C/C | T8@150 C/C |
| B2 | 250 | 350 | 3-T16 | 3-T16 | 3-T16 | 3-T16 | 3-T16 | 3-T16 | T8@150 C/C | T8@175 C/C | T8@150 C/C |
| B3 | 250 | 450 | 4-T16 | 4-T16 | 4-T16 | 4-T16 | 4-T16 | 4-T16 | T8@150 C/C | T8@175 C/C | T8@150 C/C |
| B4 | 250 | 500 | 4-T20 | 4-T20 | 4-T20 | 4-T20 | 4-T20 | 4-T20 | T8@150 C/C | T8@150 C/C | T8@150 C/C |
| TB1 | 250 | 300 | 3-T16 | 3-T16 | 3-T16 | 3-T16 | 3-T16 | 3-T16 | T8@150 C/C | T8@150 C/C | T8@150 C/C |
| TB2 | 250 | 300 | 4-T16 | 4-T16 | 4-T16 | 4-T16 | 4-T16 | 4-T16 | T8@150 C/C | T8@150 C/C | T8@150 C/C |
| RB1 | 300 | 700 | 6-T20 | 6-T20 | 6-T20 | 6-T20 | 6-T20 | 6-T20 | T8@150 C/C | T8@150 C/C | T8@150 C/C |

COLUMN SCHEDULE

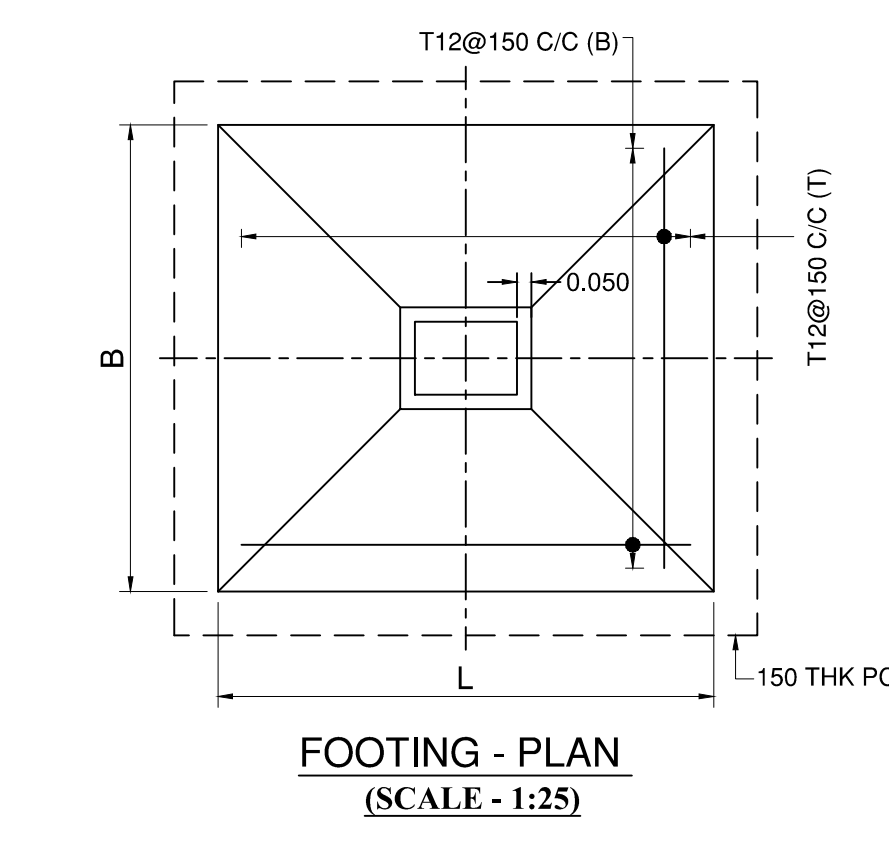
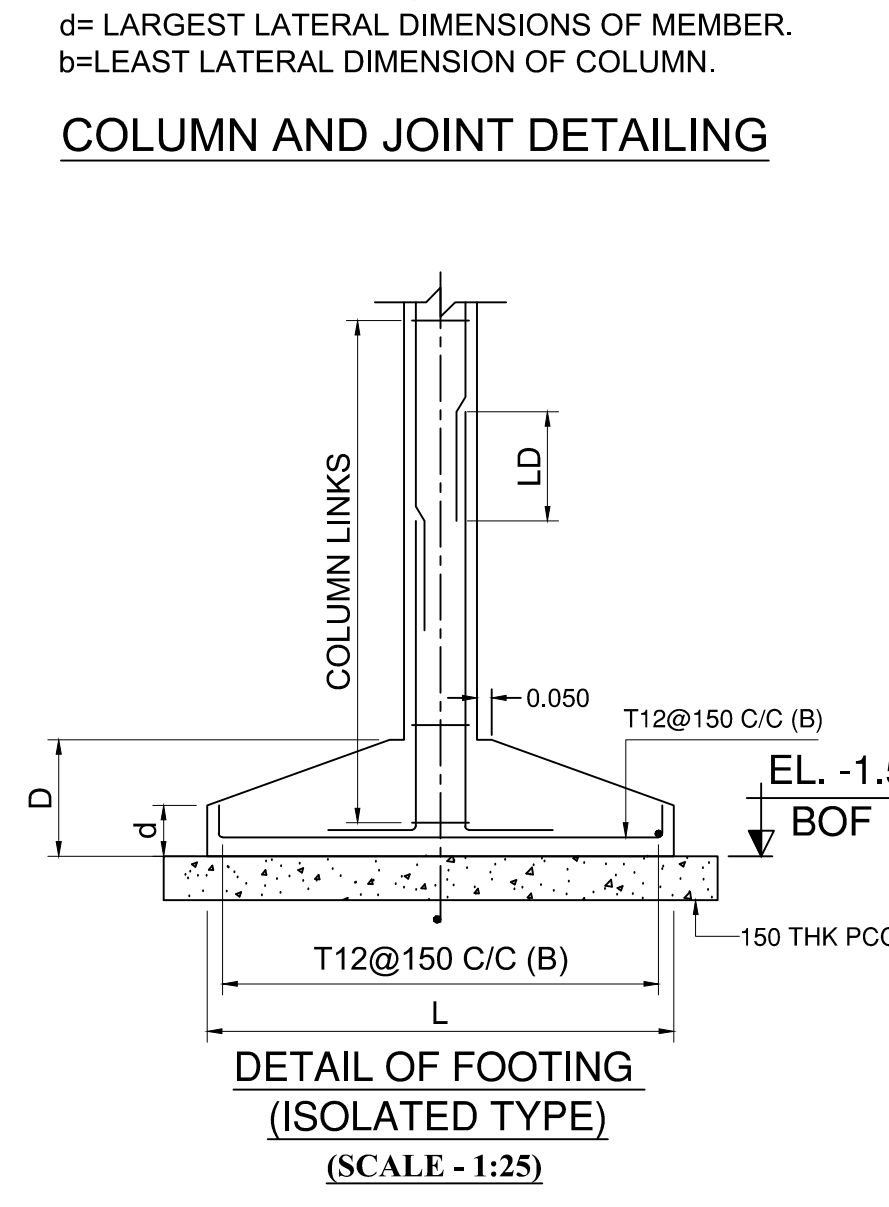
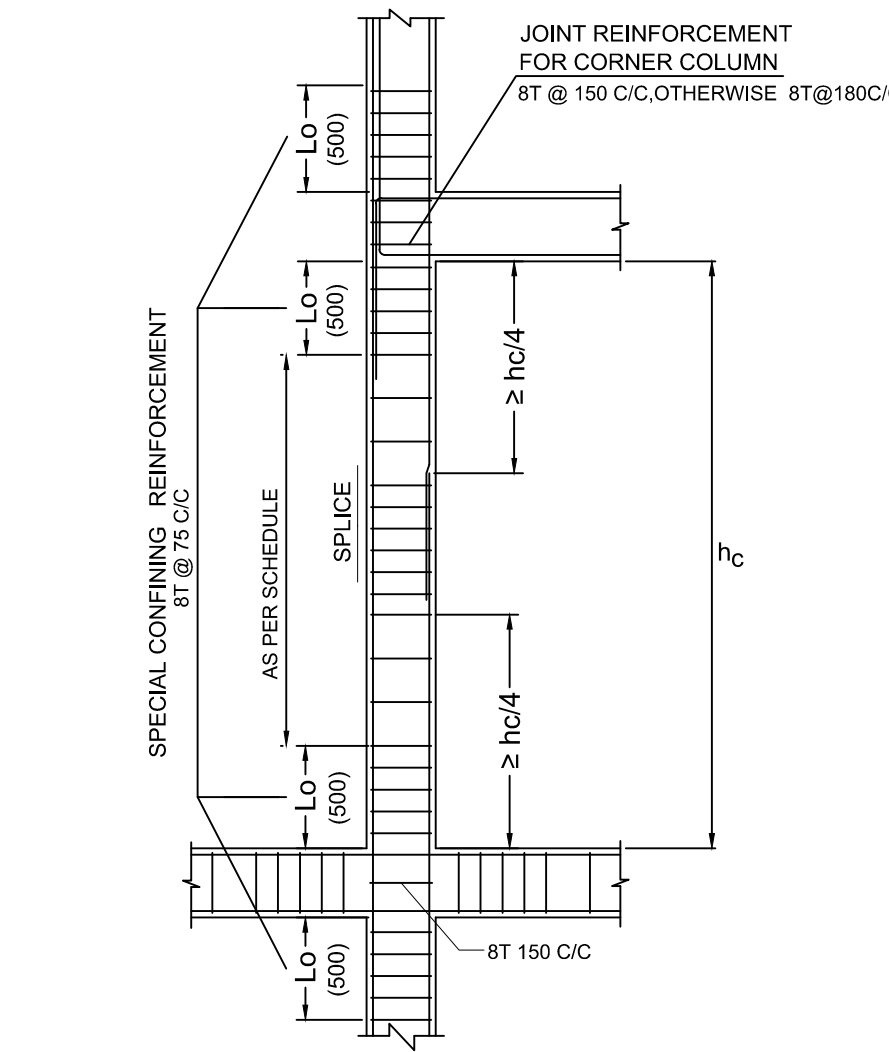
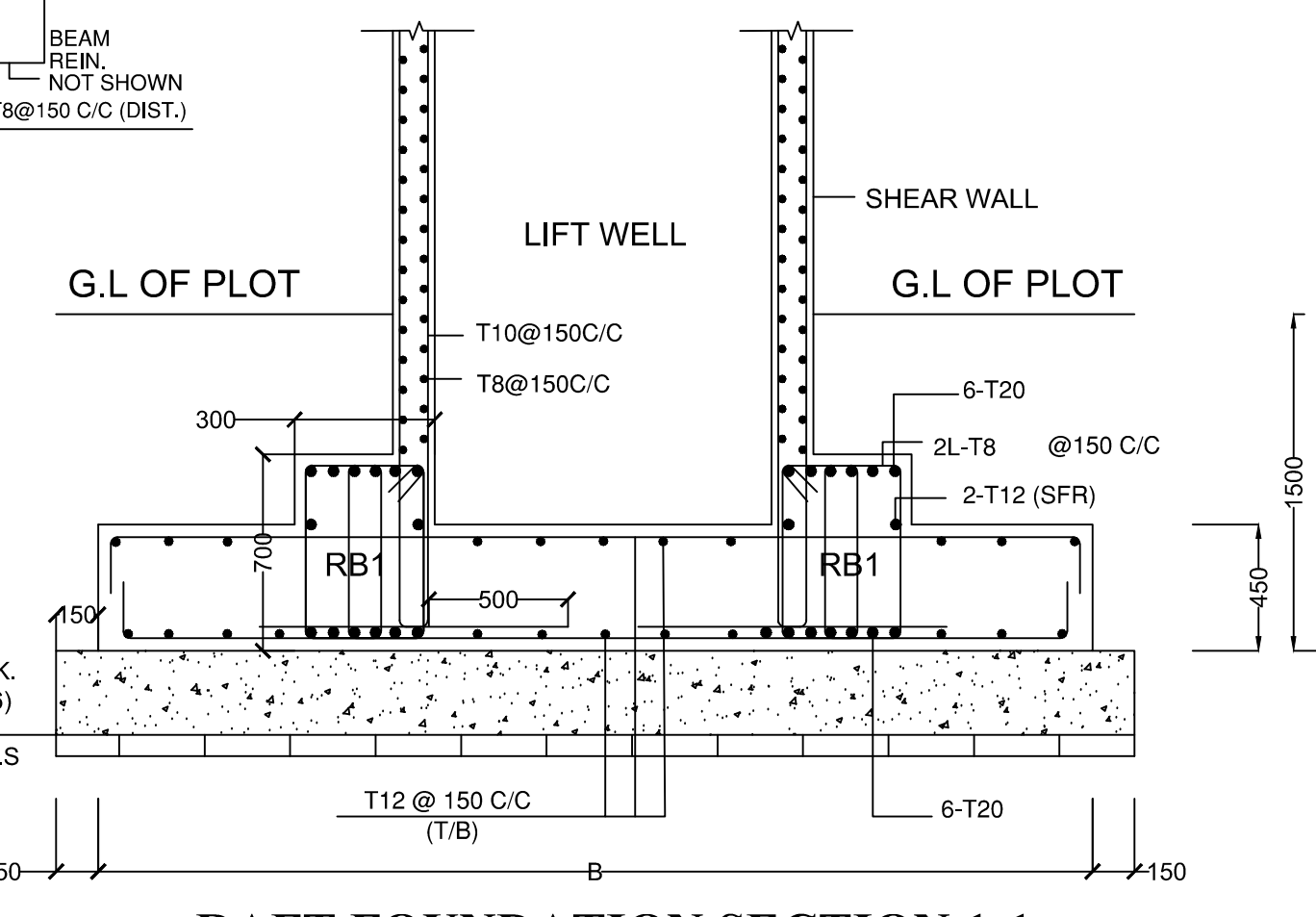
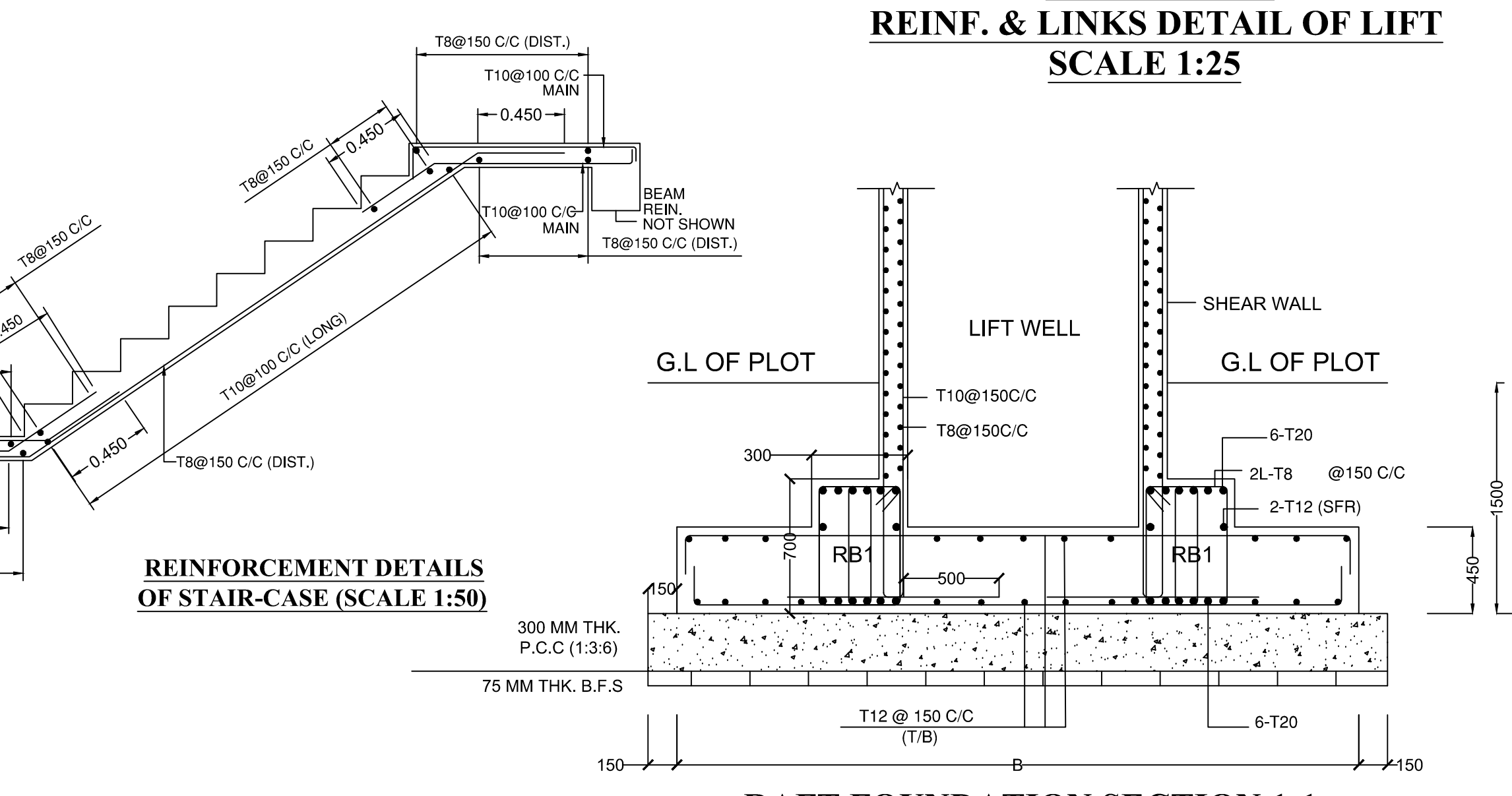
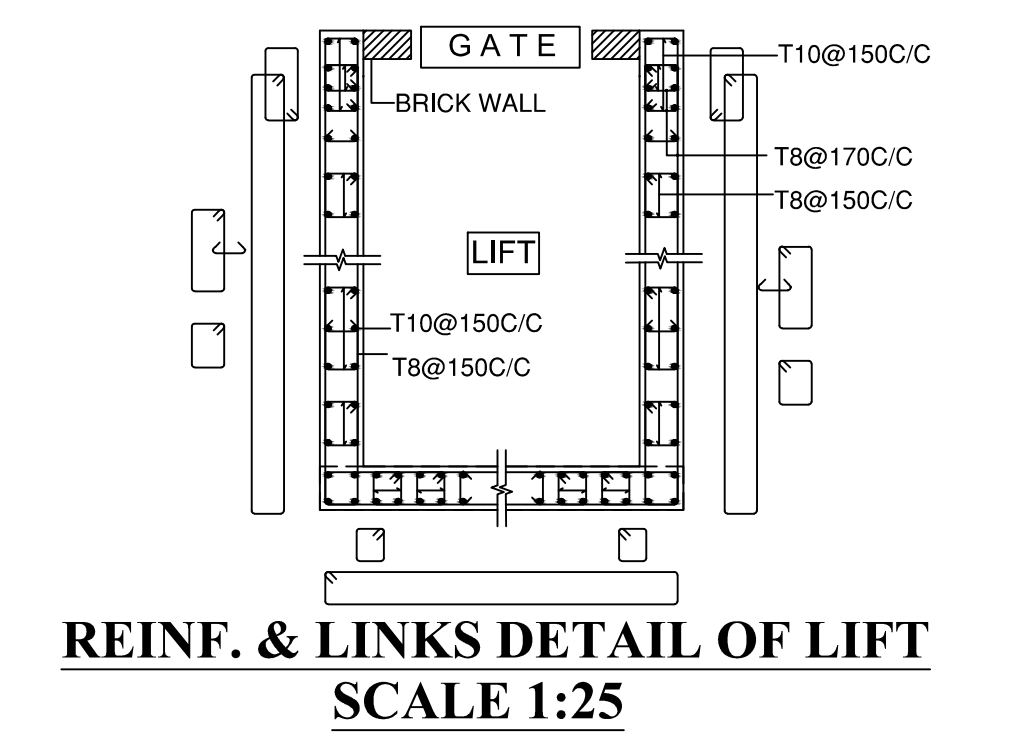
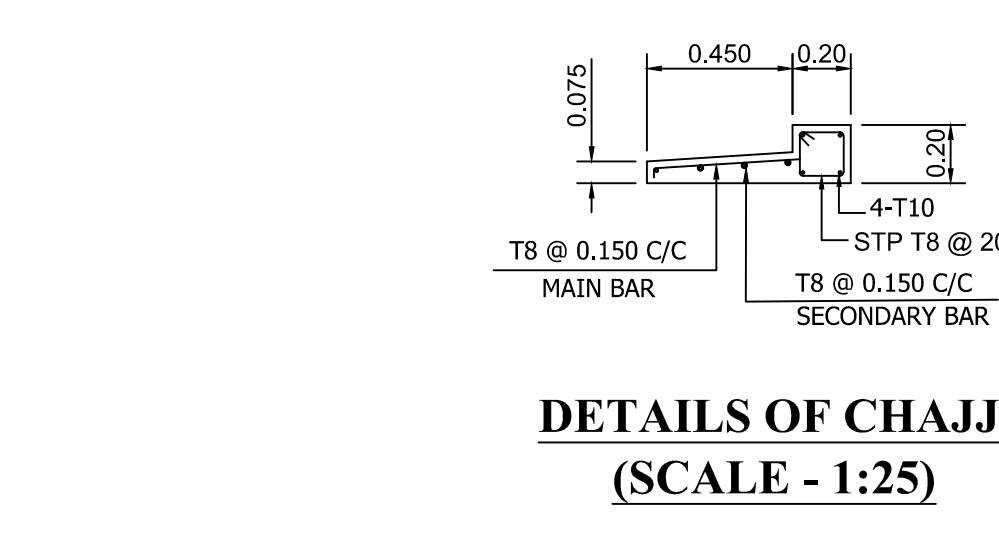
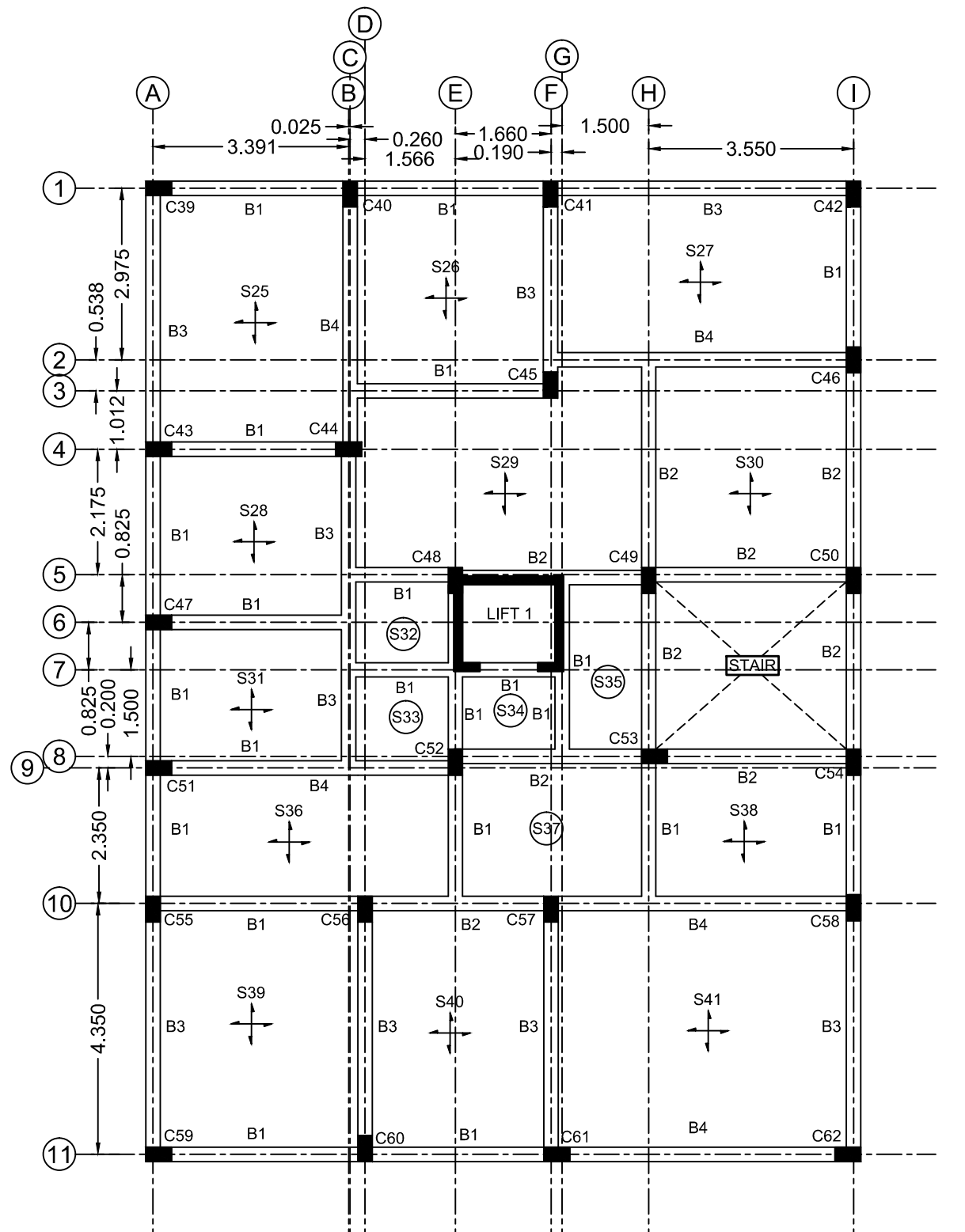
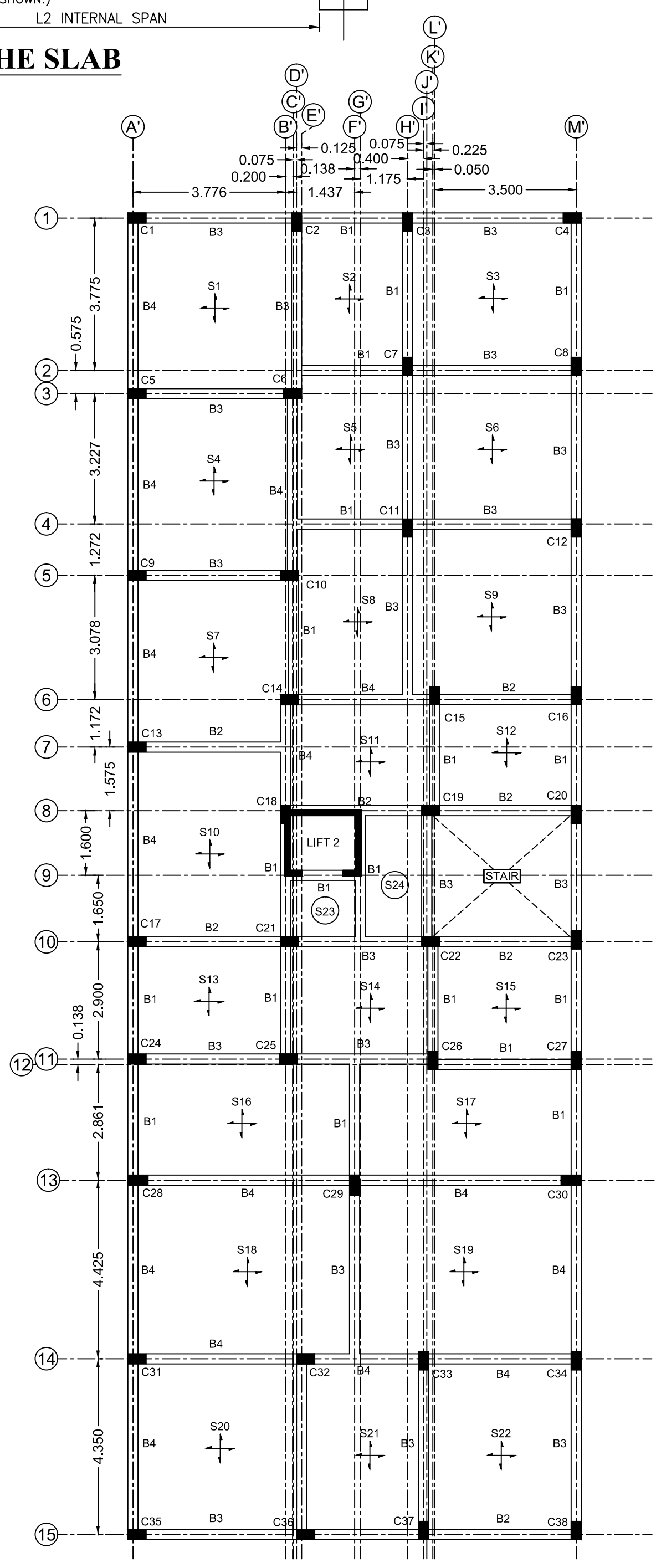
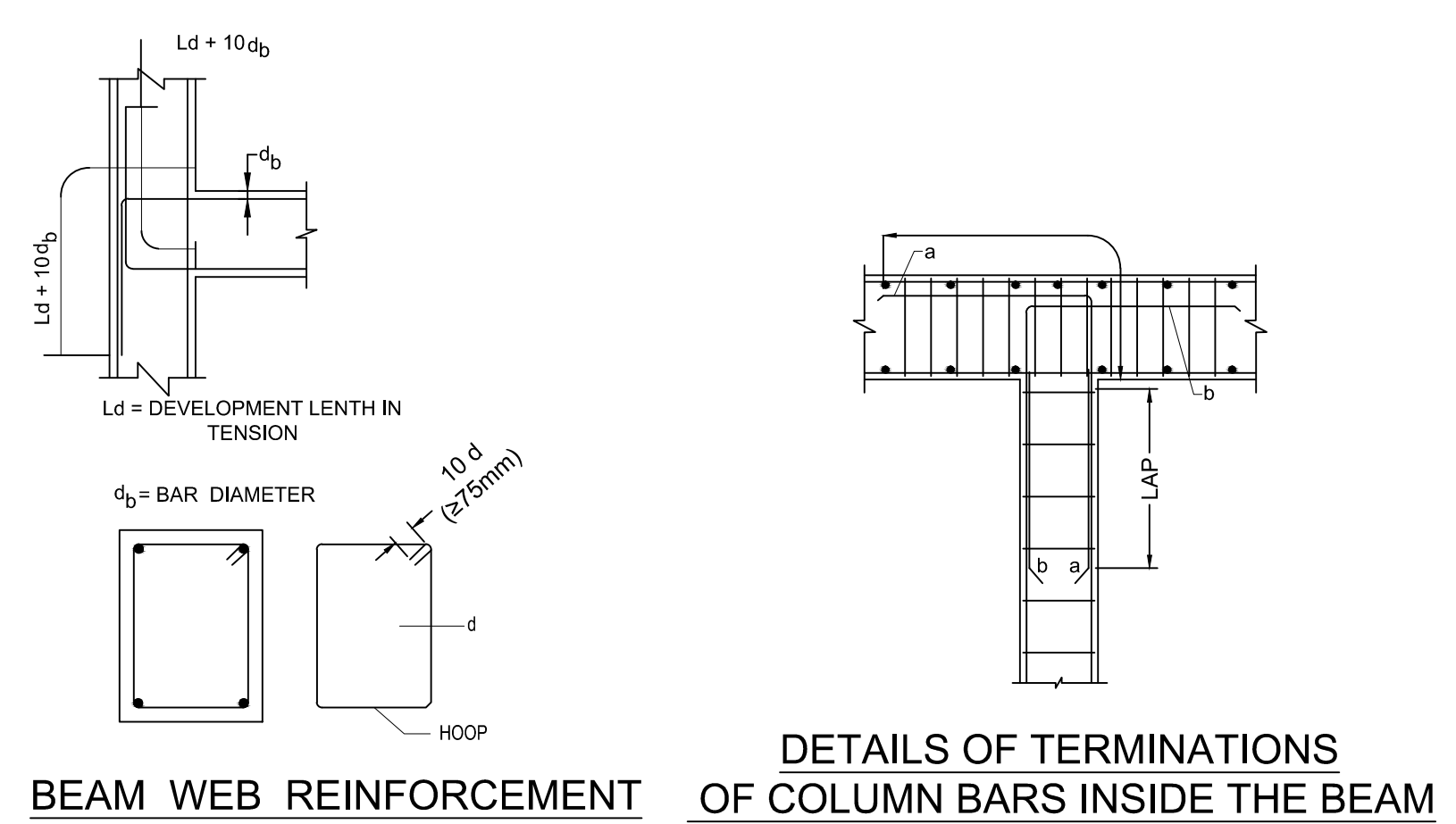
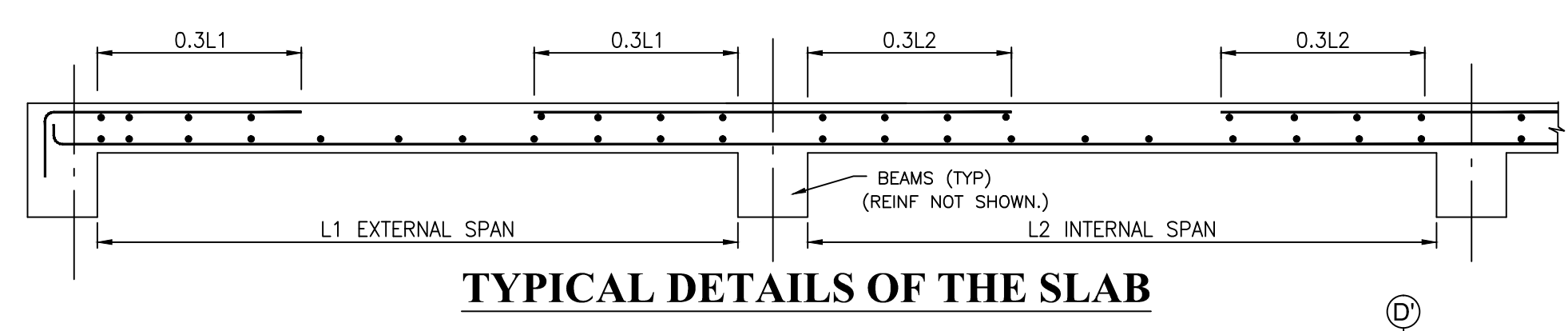
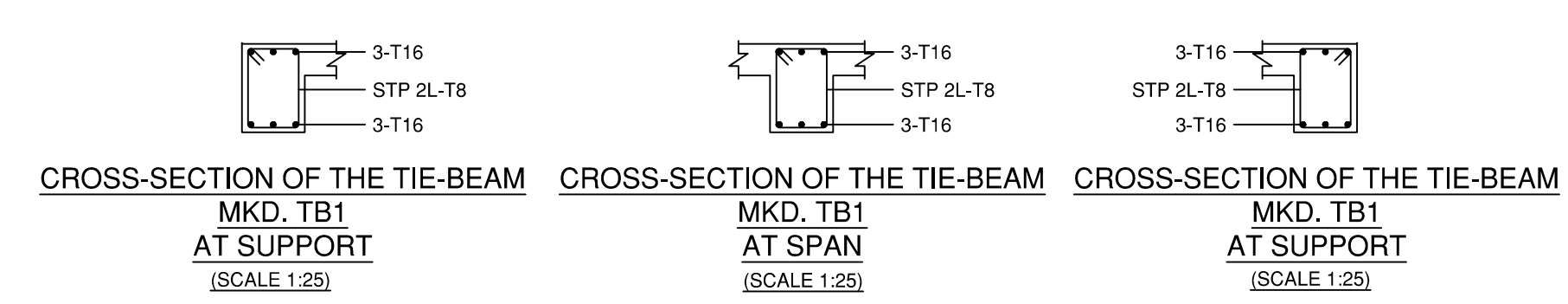
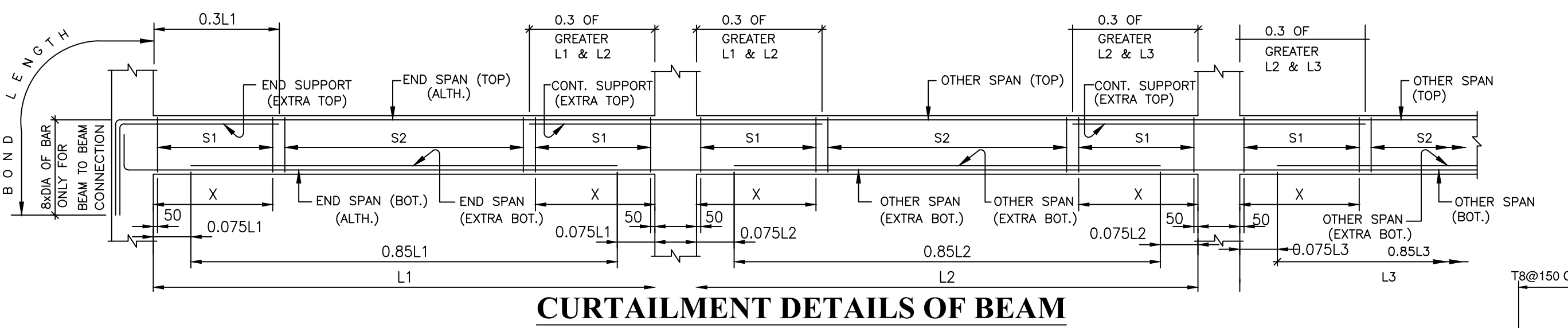
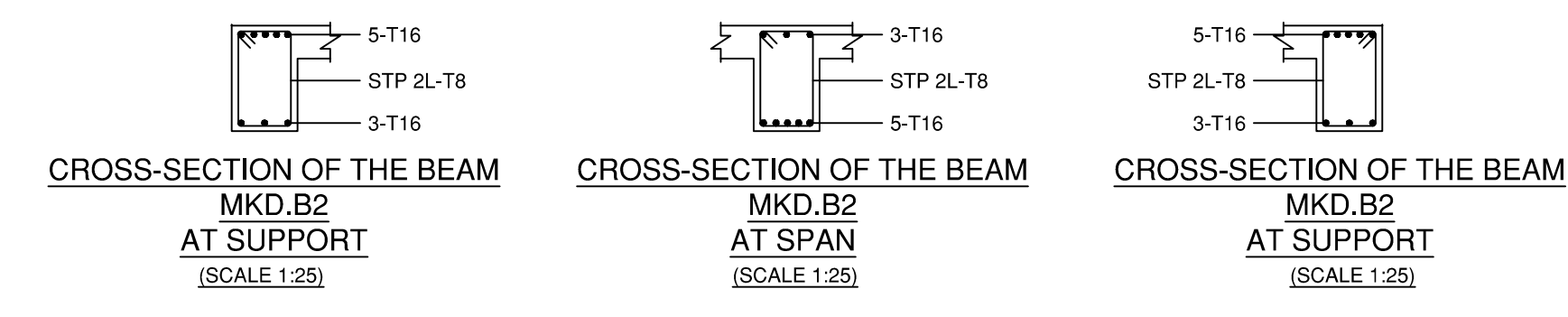
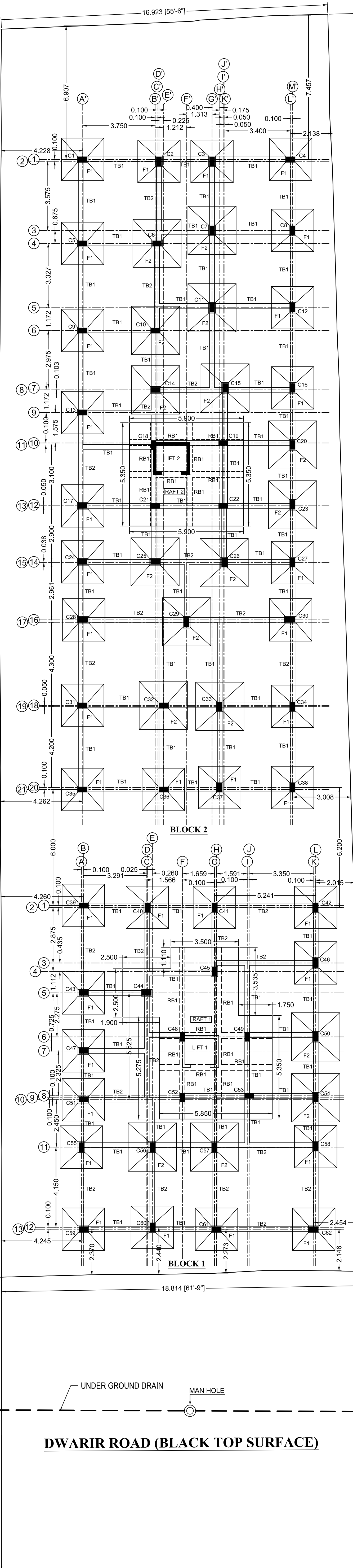
| SIZE | STEEL | LINKS | REINFORCEMENT |
|-----------------|-----------|------------|---------------|
| 15.25M TO 9.15M | M20:Fe415 | T8@250 C/C | T8@150 C/C |
| 12.20M TO 9.15M | M20:Fe415 | T8@250 C/C | T8@150 C/C |
| 9.15M TO 6.10M | M20:Fe415 | T8@250 C/C | T8@150 C/C |
| 6.10M TO 3.05M | M20:Fe415 | T8@250 C/C | T8@150 C/C |
| 3.05M TO 1.5M | M20:Fe415 | T8@250 C/C | T8@150 C/C |
| 1.5M TO 0M | M20:Fe415 | T8@250 C/C | T8@150 C/C |

FOOTING SCHEDULE

| FOOTING TYPE | F1 | F2 | RAFT 1 |
|--------------|-------------|-------------------|-------------------|
| SHORT DIR | T12@150 C/C | T12@150 C/C (T/B) | T12@150 C/C (T/B) |
| LONG DIR | T12@150 C/C | T12@150 C/C (T/B) | T12@150 C/C (T/B) |
| D.F. | 450, 250 | 450, 250 | 450 |
| SIZE | 2200X2200 | 2500X2500 | 2500X2500 |
| P.C.C. (M15) | 150 THK | 2200X2200 | 2500X2500 |

SLAB SCHEDULE (M20 : FE415)

| SLAB NUMBERS | THK | TYPE | BOTTOM REIN (BENT UP) | TOP REINFORCEMENT | DIST. |
|--------------|-----|-------|-----------------------|-------------------|--------------|
| S1 | 125 | 2-Way | T8 @ 150 C/C | T8 @ 150 C/C | T8 @ 150 C/C |
| S2 | 125 | 2-Way | T8 @ 150 C/C | T8 @ 150 C/C | T8 @ 150 C/C |
| S3 | 125 | 2-Way | T8 @ 150 C/C | T8 @ 150 C/C | T8 @ 150 C/C |
| S4 | 125 | 2-Way | T8 @ 150 C/C | T8 @ 150 C/C | T8 @ 150 C/C |



STRUCTURAL PLAN OF PROPOSED G+IV RESIDENTIAL+COMMERCIAL BUILDING AT MOUZA - JAGADDAL, L.R DAG NO. 1473, R.S DAG NO. 1279, L.R KHATIAN NO. 2570, R.S KHATIAN NO.- 672, J.L. NO. 71, HOLDING NO.- 115, P.S.- SONARPUR, DIST.-24 PARGANAS (SOUTH), WARD NO.-24, STREET - DWARIR ROAD, UNDER THE RAJPUR-SONARPUR MUNICIPALITY (R.S.M)

OWNER : MRS. TUHINA SK.

STRUCTURAL SPECIFICATIONS

- CLASS "A" KILN BURNT BRICK WITH MINIM. CRUSHING STRENGTH OF 1500PSI SHOULD BE USED.
- A MINIM. STEEL GRADE FE415 DEFORMED BARS FOR ALL DIA.
- CHARACTERISTIC STRENGTH OF CONCRETE SHOULD BE 20 MPA FOR SLAB, BEAM, COLUMN AND FOOTING.
- NOMINAL MIX PROPORTION OF CONCRETE IS M20 (1 : 1.5 : 3) (CEMENT : FINE AGG. : COARSE AGG.)
- MINIMAL COVER OF SLAB, BEAM COLUMN & FOUNDATION IS 15MM, 25MM, 40MM AND 50MM, RESPECTIVELY.
- CEMENT SAND MORTAR SHOULD BE USED AS:
 - A. IN SUPER STR. 8" THICK 1:4
 - B. SUPER STR. 5" THICK 1:4
 - C. LAP LENGTH SHOULD BE FOLLOWED AS,
 - A. 20MM DIA. = 1300MM (51")
 - B. 16MM DIA. = 1000MM (39")
 - C. 12MM DIA. = 762MM (30")
 - D. 10MM DIA. = 625MM (25")
- THE DESIGN IS IN ACCORDANCE WITH SEISMIC ZONE III (CITY KOLKATA) DAMPING RATIO 0.0805.
- SOIL BEARING CAPACITY (SBC) IS CONSIDERED AS PER SOIL INVESTIGATION REPORT

DECLARATION OF STRUCTURAL ENGG.

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION & SUPER STRUCTURE OF BOTH BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT.

DECLARATION OF E.B.S.

IT IS CERTIFIED THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF RAJPUR-SONARPUR MUNICIPALITY, BLDG. RULES AS AMENDED FROM TIME TO TIME AND THAT SITE CONDITION INCLUDING THE WIDTH OF THE ABUTTING ROAD CONFORMED WITH THE PLAN & CERTIFIED THAT IT IS A BUILDABLE SITE AND IT IS INFORMED BY THE OWNER THAT IT IS NOT A TANK OR FILLED UP TANK. THE PLOT IS DEMARCATED BY BOUNDARY WALL.

KALYAN CHAKRABORTY
ENLISTED STRUCTURAL ENGINEER
Regd. No. 001 / RJPSON/ ESE - 1 (RSM)

RUPAK KUMAR BANERJEE
ENLISTED GEO-TECHNICAL ENGINEER
Regd. No. 019/RJPSON/G.T-1 (RSM)

ER. TIYAS CHAKRABORTY
B.TECH (CIVIL), M.L.S (Associate), L.B.S
CHARTERED ENGINEER (L.E.INDIA)
Regd. No. 903 / RJPSON/ LBS - 1 (RSM)
Regd. No. AM 1911360 (INDIA)

NAME OF THE CONSTRUCTION FIRM
M/S BENGAL SRISHTI DEVELOPERS PVT. LTD.
DIRECTORS:
1. PLUSH BHOWMICK
2. HARISH GUPTA

OFFICE USE