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DATE -06.02.2024

STRUCTURAL STABILITY CERTIFICATE

I certify that the **Construction of Stilt + 4 Floors Commercial Building with 4 Office units (16.0m Height) availing with premium FS1 at Door No.31, Harrington Road, Chetpet, Chennai -600031,** is designed by us is structurally Sound, Safe and Stable against all possible Seismic Loads, Wind Load, and Combination of loads as per IS Code, the structure is intended to carry.



P. PRADEEP, B.E., M.TECH.(Struct)
Structural Engineer (Grade-I), CMDA,
Reg. No. SE/GR-I/19/07/184
RSE100932019 dt.03.02.2020
E2-607, Purva Windermore, Pallikaranai,
Chennai - 600 100. Ph:9500702114

GENERAL NOTES :

STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL & SERVICES DRAWINGS AND SPECIFICATIONS

1. MATERIALS

1. GENERAL ALL MATERIALS TO BE USED SHALL COMPLY WITH THE REQUIREMENTS OF CURRENT RELEVANT BIS CODES SPECIFICATION UNLESS NOTED OTHERWISE.

1.1) ALL STRUCTURAL KEY PLANS AND DETAILS ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL DRAWINGS, SERVICES DRAWINGS, SPECIFICATIONS, BILLS OF QUANTITIES AND ALL OTHER RELEVANT DOCUMENTS. DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

1.2) THE CONTRACTOR SHALL WORK FROM FIGURED DIMENSIONS ONLY.

1.3) THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE EXECUTION.

1.4) ALL CONCRETE SIZES AND LEVELS ARE FOR STRUCTURAL ELEMENTS UNLESS OTHERWISE NOTED.

1.5) ALL OPENINGS FOR PIPING AND CONDUITS SHALL BE FORMED IN POSITION BEFORE THE CASTING OF CONCRETE.

1.6) NO HOLES OR CHASES ARE PERMITTED IN THE CONCRETE MEMBERS UNLESS OTHER THAN AS DETAILED OR UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

1.7) CONSTRUCTION JOINTS SHALL BE LOCATED AS PER THE APPROVAL OF THE PROJECT ENGINEERS.

1.8) ANY DAMAGE CAUSED TO ANY CIVIL / STRUCTURAL WORK SHALL BE REINSTATED TO ITS ORIGINAL CONDITION WITHOUT ANY COST IMPLICATIONS TO THE CLIENT.

1.9) ALL DIMENSIONS ARE IN MILLIMETRES. ALL LEVELS ARE IN METRES.

1.10) THE DESIGN LIVE LOADS ARE AS PER CODAL PROVISIONS. THE ROOF STRUCTURE HAS BEEN DESIGNED FOR NORMAL ROOF LOADS ONLY, AND DOES NOT ALLOW FOR ANY EXTRANEOUS LOADS AS HOISTS, MONORAILS ETC.

1.11) NO PROVISIONS ARE MADE FOR ADDITIONAL STOREY.

1.12) ALL PROPS & FORMWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY WALLS OR OTHER PERMANENT LOADING ON THE SLAB.(CLAUSE '12' TO BE FOLLOWED).

ALL OPENINGS TO BE FORMED IN THE FLOORS AND WALLS, INCLUDING THOSE FOR CONSTRUCTION PURPOSES SHALL BE TO THE APPROVAL OF THE ENGINEER.

1.13) ALL WORKS TO BE CARRIED OUT AS PER THE RELEVANT LATEST BIS STANDARDS.

2. CONCRETE UNLESS OTHERWISE NOTED CONCRETE GRADE MUST BE OF GRADE SPECIFIED IN THE DRAWINGS:-

2.1 BLINDING CONCRETE GRADE M15
MAXIMUM AGGREGATE SIZE 20mm.

2.2 1. THE CONCRETE GRADES ARE AS FOLLOWS :-

COMPONENTS	FLOORS	CONC.GRADE
1.COLUMNS AND SHEAR WALLS	ALL FLOORS	M30
2.BEAMS AND SLAB	ALL FLOORS	M30
3.FOUNDATION	PILE & PILE CAP	M30

2. MINIMUM CONTENT OF ORDINARY PORTLAND CEMENT TO BE AS PER TABLE '5' OF IS 456 DURABILITY REQUIREMENTS.

3. MAXIMUM AGGREGATE SIZE 20mm.
MAXIMUM FREE WATER / CEMENT RATIO AS PER TABLE '5' OF IS 456

2.3 ALL REINFORCED CONCRETE IS TO BE MADE FROM CEMENT, FINE AGGREGATE (SAND AND CRUSHER FINES) COARSE AGGREGATE (10mm AND 20mm) AND WATER.

2.4 THE CONTRACTOR IS TO SUBMIT PROPOSED MIX DESIGNS, TOGETHER WITH NOT LESS THAN 4 Nos. 7 DAYS AND 4 Nos. 28 DAYS CUBE TEST RESULTS FOR APPROVAL WELL BEFORE COMMENCEMENT OF CONCRETE WORKS.

DETAILS OF ADMIXTURE AND ADDITIVES ARE TO BE SUBMITTED ALONG WITH THE PROPOSED MIX DESIGNS.

3. REINFORCEMENT

3.1 THE FOLLOWING TEST RESULTS, FOR EACH BAR DIAMETER AND EACH SOURCE OF SUPPLY, ARE TO BE SUBMITTED FOR APPROVAL

- TENSION TESTS (YIELD AND ULTIMATE)
- ELONGATION
- CROSS - SECTIONAL AREA
- CHEMICAL ANALYSIS
- BEND AND REBEND TESTS

3.2) CONCRETE COVER TO OUTERMOST REINFORCEMENT, INCLUDING LINKS AND STIRRUPS, SHALL BE AS FOLLOWS : (2 HOURS FIRE RESISTANCE/MODERATE EXPOSURE CONSIDERED.)

STRUCTURAL ELEMENTS	IN CONTACT WITH GROUND	OTHERS	
		SIMPLY SUPPORTED	CONTINUOUS
SLABS	20	35	25
BEAMS	50 (TOP) 40 (SIDE & BOT.)	40	30
WALLS/SHEAR WALLS	40	—	—
COLUMNS	40/25	—	—
PILE/PILE CAP	75	—	—

3.3) ALL REINFORCEMENT ARE TO BE FIRMLY SUPPORTED ON APPROVED CHAIRS OR CONCRETE BLOCKS GENERALLY AT NOT GREATER THAN 1000MM CENTRES BOTH WAYS. WHERE LONGITUDINAL REINFORCEMENT ARE PLACED IN 2 LAYERS OR MORE, SPACER BARS OF 25MM DIAMETER OR THE DIAMETER OF THE LONGITUDINAL, WHICHEVER IS LARGER, ARE TO BE PROVIDED AT 1000MM INTERVALS TO SEPARATE THE LAYERS.

3.4) WELDING OF REINFORCEMENT WILL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

3.5) ALL BARS SHALL BE CUT AND BENT TO CONFORM TO LATEST EDITION OF IS 1786

UNLESS OTHERWISE SHOWN IN THE DRAWINGS, THE MINIMUM LAP LENGTH FOR REINFORCEMENT SHALL BE PROVIDED AS TABULATED IN 5.7

4. CONCRETE BLOCKS FOR WALLS & SLABS

4.1 AGGREGATE FOR CONCRETE BLOCKS SHALL COMPLY WITH THE REQUIREMENTS OF BIS.

4.2 COMPRESSIVE STRENGTH OF BLOCKS SHALL BE :-

MINIMUM	AVERAGE OF 10
3.5 N/mm ²	4.0 N/mm ²

4.3 MORTAR IS TO BE 1 : 4 CEMENT : SAND.

5. FOUNDATIONS

5.1 EXCAVATIONS FOR FOUNDATIONS SHALL BE CARRIED OUT BY MECHANICAL MEANS, EXCEPT FOR THE LAST 200mm OF EXCAVATION WHICH IS TO BE CARRIED OUT BY MANUAL METHODS.

5.2 ASSUMED SAFE BEARING PRESSURE BELOW PAD AND STRIP FOUNDATIONS IS REF. TO SOIL REPORT THE DEPTH SHOWN ON THE DRAWINGS, SHOULD A SUITABLE BEARING LAYER NOT BE FOUND AT THE DEPTH SHOWN THE EXCAVATION SHALL CONTINUE DOWN TO A DEPTH DEEMED SUITABLE BY THE ENGINEER, AND BACK FILLED WITH CONCRETE GRADE 15 UP TO THE LEVEL, SHOWN ON THE DRAWINGS.

5.3 FORMATION LEVELS OF FOUNDATIONS SHALL BE DETERMINED BY THE SITE ENGINEER BASED UPON EXISTING ROAD LEVELS, WATER TABLE LEVEL, SERVICES REQUIREMENTS.

5.4 SHOULD THE FORMATION LEVELS OF TWO OR MORE FOUNDATIONS ADJACENT TO EACH OTHER BE DIFFERENT, THE DIFFERENCE IN LEVEL IS TO BE MADE UP BY CONCRETE GRADE 15 (ie THE AREA SHALL BE EXCAVATED TO THE FORMATION LEVEL OF THE LOWER FOUNDATION AND A THICKER BLINDING USED FOR THE FOUNDATION HAVING THE HIGHER FORMATION LEVEL.

5.5 THE FORMATION LEVELS OF FOUNDATIONS SHALL BE WATERED AND MECHANICALLY COMPACTED PRIOR TO PLACING BLINDING CONCRETE.

5.6 THE FORMATION LEVELS OF FOUNDATIONS ARE TO BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE BLINDING CONCRETE IS PLACED.

5.7 A 150mm LAYER OF BLINDING CONCRETE GRADE M15 IS TO BE PLACED UNDER ALL PAD AND STRIP FOUNDATIONS.

UNLESS OTHERWISE SHOWN IN THE DRAWINGS, MIN. LAP LENGTH FOR REINFORCEMENT SHALL BE PROVIDED AS TABULATED

DIA OF BARS	Development length of bars Fe 500 Grade				
	GRADE OF CONC				
	M-20	M-25	M-30	M-35	M-40 & ABOVE
8	460	390	370	320	290
10	570	490	460	400	360
12	680	585	550	480	430
16	910	780	730	640	575
20	1150	980	910	800	720
25	1450	1220	1200	1000	900
32	1820	1560	1450	1280	1150

6. FOUNDATION ADJACENT TO EXISTING STRUCTURES

6.1 THE CONTRACTOR IS TO EXCAVATE TRIAL PITS NEXT TO EXISTING FOUNDATIONS TO DETERMINE THE NATURE AND LEVEL OF EXISTING FOUNDATIONS.

6.2 THE CONTRACTOR IS TO INFORM THE ENGINEER OF THE NATURE AND LEVEL OF EXISTING FOUNDATIONS, THE ENGINEER WILL MODIFY THE PROPOSED FOUNDATION DETAILS AS REQUIRED.

6.3 THE CONTRACTOR IS TO TAKE ALL PRECAUTIONS TO ENSURE THE INTEGRITY OF NEIGHBOURING PROPERTY DURING EXCAVATIONS AND THE CONSTRUCTION OF THE WORKS.

7. FOUNDATIONS OF MAIN STRIP UNDERGROUND STRUCTURE

7.1 EXCAVATION AND CONSTRUCTION OF STRUCTURES (SEPTIC TANKS, WATER TANKS AND THE LIKE) CONSTRUCTION OF THE UNDERGROUND STRUCTURE.

7.2 THE FORMATION LEVELS OF STRUCTURES SHALL BE TAKEN AS UNDERGROUND STRUCTURE.

8. CONCRETE WORKMANSHIP

8.1 ALL DAYWORK AND CONSTRUCTION SHALL BE AT PREDETERMINED LOCATION.

8.2 VERTICAL JOINTS SHALL BE TAKEN AT AN APPROVED SURFACE REFINISH TO EXPOSE THE AGGREGATE AND BE TAKEN PLACE.

8.3 HORIZONTAL JOINTS SHALL BE TAKEN AT WEAK CONCRETE BEFORE CASTING.

8.4 ALL UNPLASTERED CONCRETE SHALL BE TO THE CONTRARY.

8.5 ALL CONCRETE IS TO BE COVERED WITH POLYTHENE/HESSIAN SHEET.

9. R.C. WALLS FOR BASEMENT

9.1 THE CONTRACTOR IS TO VERIFY THE EXISTING SURFACE AND COMPARE THIS WITH THE DRAWINGS, IN THE EVENT OF DISCREPANCY, THE SLAB THICKNESS WILL BE TAKEN FOR HYDROSTATIC UPLIFT.

9.2 150mm CONCRETE BLINDING SHALL BE PROVIDED BELOW THE WATER TANK BASEMENT.

9.3 THE CONTRACTOR SHALL MARKED UP TO SHOW LOCATION OF WALLS.

9.4 CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS PER DRAWINGS EXPOSED AND EARTH RETAINING FACES.

9.5 WATER BARS ARE TO BE PROVIDED AT CONSTRUCTION JOINTS.

9.6 ALL WALL KICKERS ARE TO BE PROVIDED.

10. GROUND BEARING SLABS/STRIPS

10.1 BACKFILL IS TO COMPRISE 150mm THICK AND COMPACTED TO THE REQUIRED DRY DENSITY.

11. FOOTINGS / COMBINED FOOTINGS

1) THE COLUMNS ARE SUPPORTED ON FOOTINGS AND CAPACITY OF PILE IS 110 TONS. APPROVED BY STRUCTURAL CONSULTANT.

2) BACKFILLING SHALL BE PROVIDED TO EXCEEDING 150MM AND COMPACTED TO THE SATISFACTORY ENGINEER. BACKFILLING MATERIAL SHALL BE AS PER APPROVED SPECIFICATION.

12. STRIKING OF FORMWORK

TYPE OF FORMWORK

a. VERTICAL FORMWORK TO BE USED FOR COLUMNS/WALL/BEAMS.

b. PROPS / SHUTTERING TO BE USED FOR

- 1.) SPANNING UP TO 4.0M
- 2.) SPANNING OVER 4.0M

c. PROPS / SHUTTERING TO BE USED FOR BEAMS, FLAT SLABS / DROP SLABS.

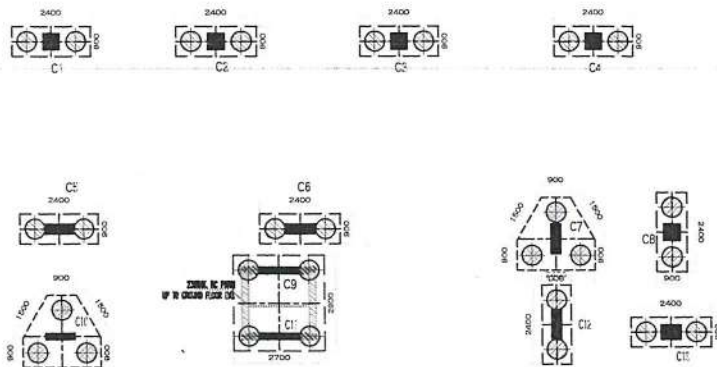
- 1.0 SPANNING UP TO 4.0M
- 2.0 SPANNING OVER 4.0M

13. CONCRETE TESTING / BLINDING

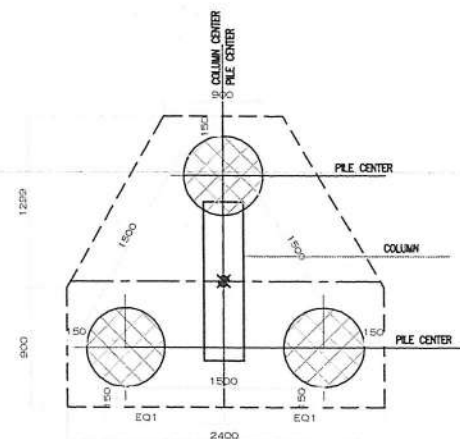
1) ALL SAMPLING AND TESTING OF CONCRETE SHALL BE CARRIED OUT BY THE ENGINEER'S SUPERVISION.

2) ALL TEST CUBES BE CASTED WITH I.S. 516 METHOD OF CASTING. RATE OF SAMPLING AND TESTING SHALL BE AS INDICATED IN THE SPECIFICATION.

3) ALL BLOCKWORK AND CONCRETE SHALL BE TO THE CURRENT BIS STANDARDS.



LAYOUT OF PILE/PILE CAP



(PLAN)
TYPICAL PILE/PILE CAP DETAIL
FOR 600 DIA. THREE PILES

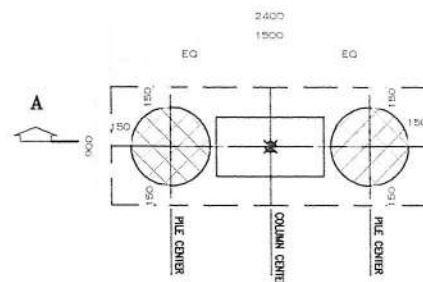
PILE SCHEDULE:-

LEGEND	NOS.	PILE DIA. CAST IN SITU	STEEL	CONCRETE GRADE	PILE CAPACITY	LATERAL CAPACITY
	28	600 Ø	18T16 UP TO 5700 FROM PILE TOP; 8T150c/c HELICAL RINGS 8T16 IF FOR REST LENGTH; 8T150c/c HELICAL RINGS	M30	110 Ton	5.2 Ton

NOTE:-PROVIDE 12T1000c/c MASTER RING

COLUMN/PILE-PILE CAP SCHEDULE

FOURTH FLOOR TO TERRACE FLOOR	SIZE	500X500	500X500	300X300	300X300	300X300	200X2200	REFER DETAIL	300X300	450X600
	STEEL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL
THIRD FLOOR TO FOURTH FLOOR	SIZE	500X500	500X500	300X300	300X300	300X300	200X2200	REFER DETAIL	300X300	450X600
	STEEL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL
SECOND FLOOR TO THIRD FLOOR	SIZE	500X500	500X500	300X300	300X300	300X300	200X2200	REFER DETAIL	300X300	450X600
	STEEL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL
FIRST FLOOR TO SECOND FLOOR	SIZE	500X500	500X500	300X300	300X300	300X300	200X2200	REFER DETAIL	300X300	450X600
	STEEL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL
STILT FLOOR TO FIRST FLOOR	SIZE	500X500	500X500	300X300	300X300	300X300	200X2200	REFER DETAIL	300X300	450X600
	STEEL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL	REFER DETAIL
CAS-IN SITU PILES	NO	2	2	2	2	3	4	3	2	2
	DIA	600	600	600	600	600	600	600	600	600
PILE CAP	SIZE	900X2400	900X2400	900X2400	900X2400	REFER DETAIL	2700X2500	REFER DETAIL	900X2400	900X2400
	DEPTH	1200	1200	1200	1200	1200	900	1200	1200	900
STEEL IN PILE CAP	LONG SPAN STEEL	7 T 20	8 T 20	8 T 20	8 T 25	7 T 25	REFER DETAIL	7 T 20	8 T 20	7 T 20
	SHORT SPAN STEEL	12T150c/c	12T150c/c	12T150c/c	12T150c/c	8 T 25	REFER DETAIL	8 T 20	12T150c/c	12T150c/c
	BINDER	12T150c/c	12T150c/c	12T150c/c	12T150c/c	12T150c/c	12T150c/c	12T150c/c	12T150c/c	12T150c/c
COLUMN NO.		C1	C2 C3 C4 C8	C5	C6	C7	C8 B11	C10	C12	C13

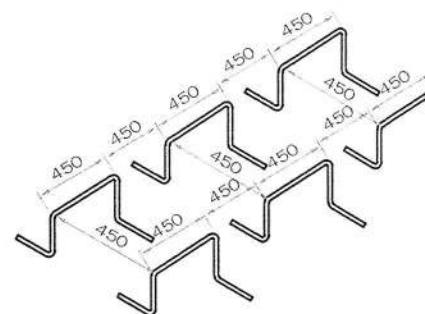
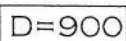


(PLAN)
TYPICAL PILE/PILE CAP DETAIL
FOR 600 DIA. TWO PILES

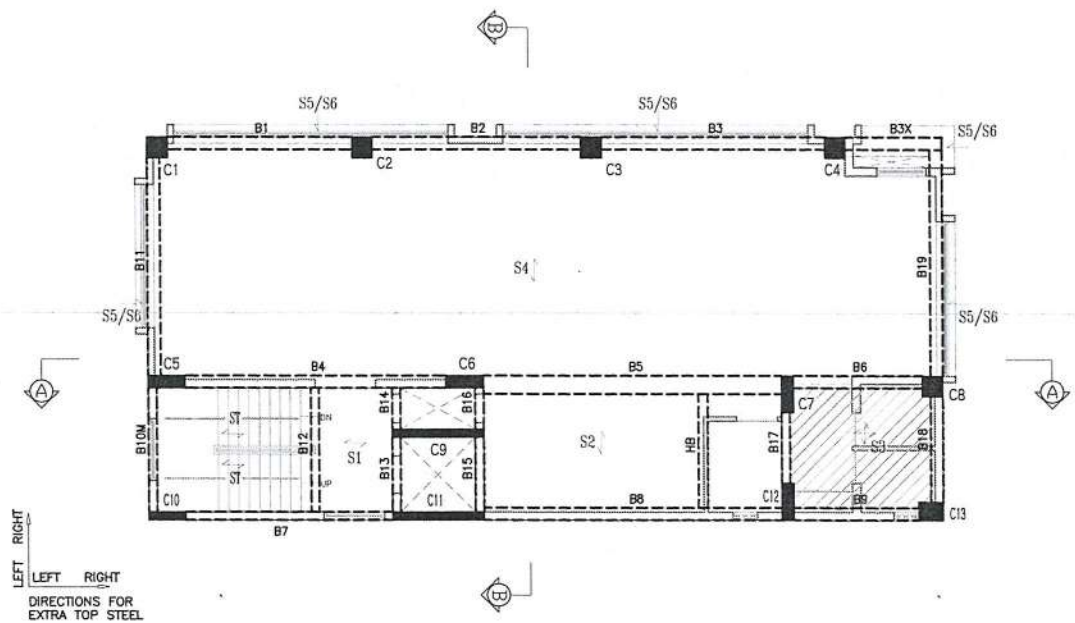
FOURTH FLOOR TO TERRACE FLOOR	M30:Fe500 : COVER=40MM 	M30:Fe500 : COVER=40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	
	8T200E 500 12T16+4T12 500 •T12 •T16	8T200E 500 12T16+4T12 500 •T12 •T16	8T125E 900 6T16+14T12 300 •T16 •T12	8T125E 900 6T16+14T12 300 •T16 •T12	8T100E 8T200E 8T100E 2200 400 1400 400 8T12 10T10 8T12 200 •T10 •T12	
	500 12T16+4T12 500 •T12 •T16	500 12T16+4T12 500 •T12 •T16	900 6T16+14T12 300 •T16 •T12	900 6T16+14T12 300 •T16 •T12	2200 400 1400 400 8T12 10T10 8T12 200 •T10 •T12	
THIRD FLOOR TO FOURTH FLOOR	M30:Fe500 : COVER=40MM 	M30:Fe500 : COVER=40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	
	8T200E 500 12T16+4T12 500 •T12 •T16	8T200E 500 12T16+4T12 500 •T12 •T16	8T125E 900 6T16+14T12 300 •T16 •T12	8T125E 900 6T16+14T12 300 •T16 •T12	8T100E 8T200E 8T100E 2200 400 1400 400 8T12 10T10 8T12 200 •T10 •T12	
	500 12T16+4T12 500 •T12 •T16	500 12T16+4T12 500 •T12 •T16	900 6T16+14T12 300 •T16 •T12	900 6T16+14T12 300 •T16 •T12	2200 400 1400 400 8T12 10T10 8T12 200 •T10 •T12	
SECOND FLOOR TO THIRD FLOOR	M30:Fe500 : COVER=40MM 	M30:Fe500 : COVER=40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	
	8T200E 500 12T16+4T12 500 •T12 •T16	8T200E 500 12T16+4T12 500 •T12 •T16	8T125E 900 10T16+10T12 300 •T16 •T12	8T125E 900 14T16+6T12 300 •T16 •T12	8T100E 8T200E 8T100E 2200 400 1400 400 4T16+4T12 10T10 4T16+4T12 200 •T10 •T12 •T16	
	500 12T16+4T12 500 •T12 •T16	500 12T16+4T12 500 •T12 •T16	900 10T16+10T12 300 •T16 •T12	900 14T16+6T12 300 •T16 •T12	2200 400 1400 400 4T16+4T12 10T10 4T16+4T12 200 •T10 •T12 •T16	
FIRST FLOOR TO SECOND FLOOR	M30:Fe500 : COVER=40MM 	M30:Fe500 : COVER=40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	
	8T200E 500 12T16+4T12 500 •T12 •T16	8T200E 500 12T16+4T12 500 •T12 •T16	8T125E 900 10T16+10T12 300 •T16 •T12	8T125E 900 14T20+6T16 300 •T16 •T20	8T100E 8T200E 8T100E 2200 600 1000 600 12T16 8T10 12T16 200 •T10 •T16	
	500 12T16+4T12 500 •T12 •T16	500 12T16+4T12 500 •T12 •T16	900 10T16+10T12 300 •T16 •T12	900 14T20+6T16 300 •T16 •T20	2200 600 1000 600 12T16 8T10 12T16 200 •T10 •T16	
STILT FLOOR TO FIRST FLOOR	M30:Fe500 : COVER=40MM 	M30:Fe500 : COVER=40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	M30 : Fe500 : COVER = 40MM 	
	8T200E 500 12T16+4T12 500 •T12 •T16	8T200E 500 12T16+4T12 500 •T12 •T16	8T125E 900 10T16+10T12 300 •T16 •T12	8T125E 900 6T25+14T20 300 •T20 •T25	8T100E 8T200E 8T100E 2200 600 1000 600 12T16 8T10 12T16 200 •T10 •T16	
	500 12T16+4T12 500 •T12 •T16	500 12T16+4T12 500 •T12 •T16	900 10T16+10T12 300 •T16 •T12	900 6T25+14T20 300 •T20 •T25	2200 600 1000 600 12T16 8T10 12T16 200 •T10 •T16	
COLUMN NO:	C1	C2,C3,C4,C8	C5,C6	C7	C9,C11	C10



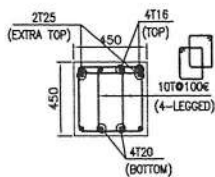
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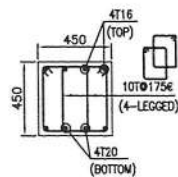
SHEAR REINFORCEMENT
10T@450C/C(BOTH)



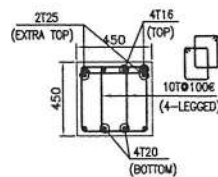
LAYOUT OF TYPICAL FLOOR



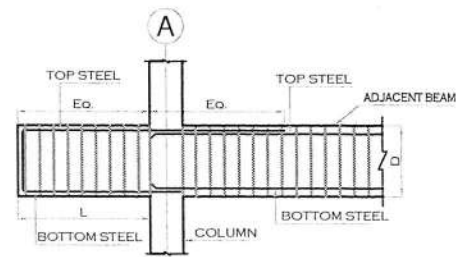
C/S OF BEAM-B5
@ LEFT SUPPORT



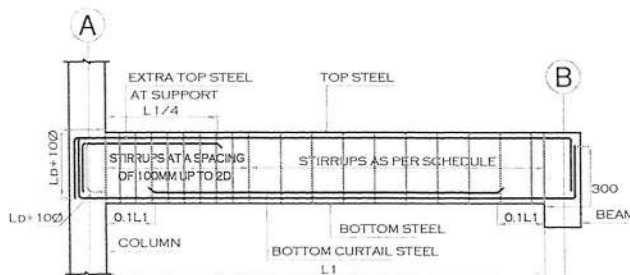
C/S OF BEAM-B5
@ MID SPAN



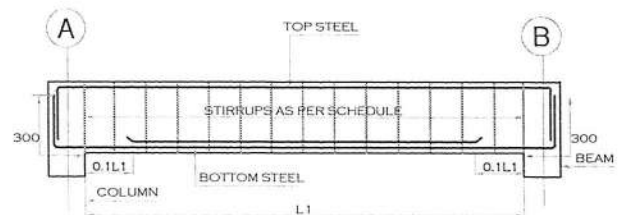
C/S OF BEAM-B5
@ RIGHT SUPPORT



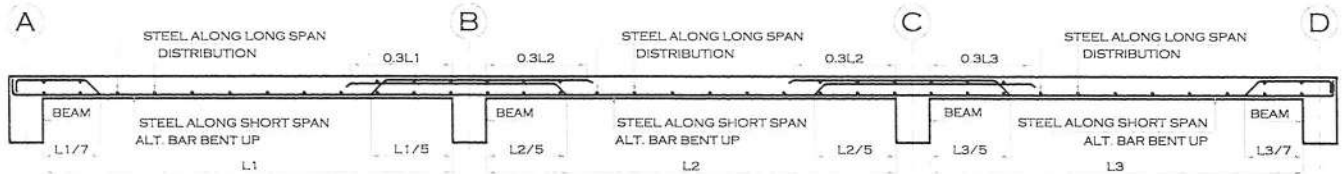
TYPICAL DETAIL OF CANTILEVER BEAM



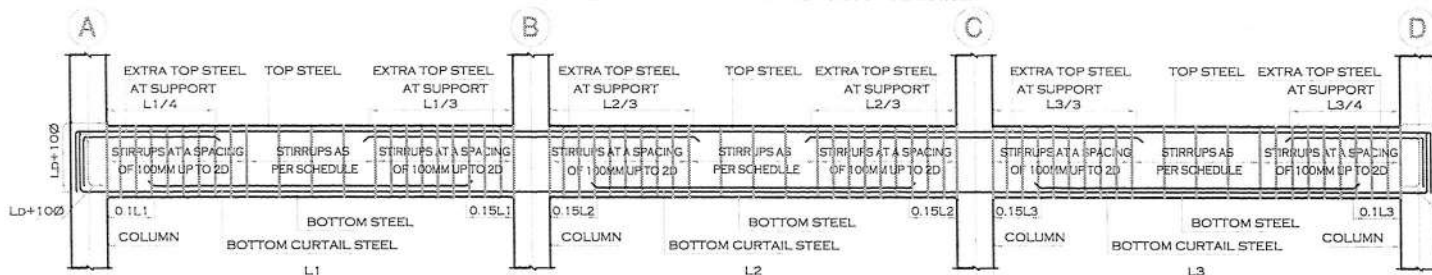
TYPICAL DETAIL OF BEAM
BEAM RESTING ON COLUMN & BEAM



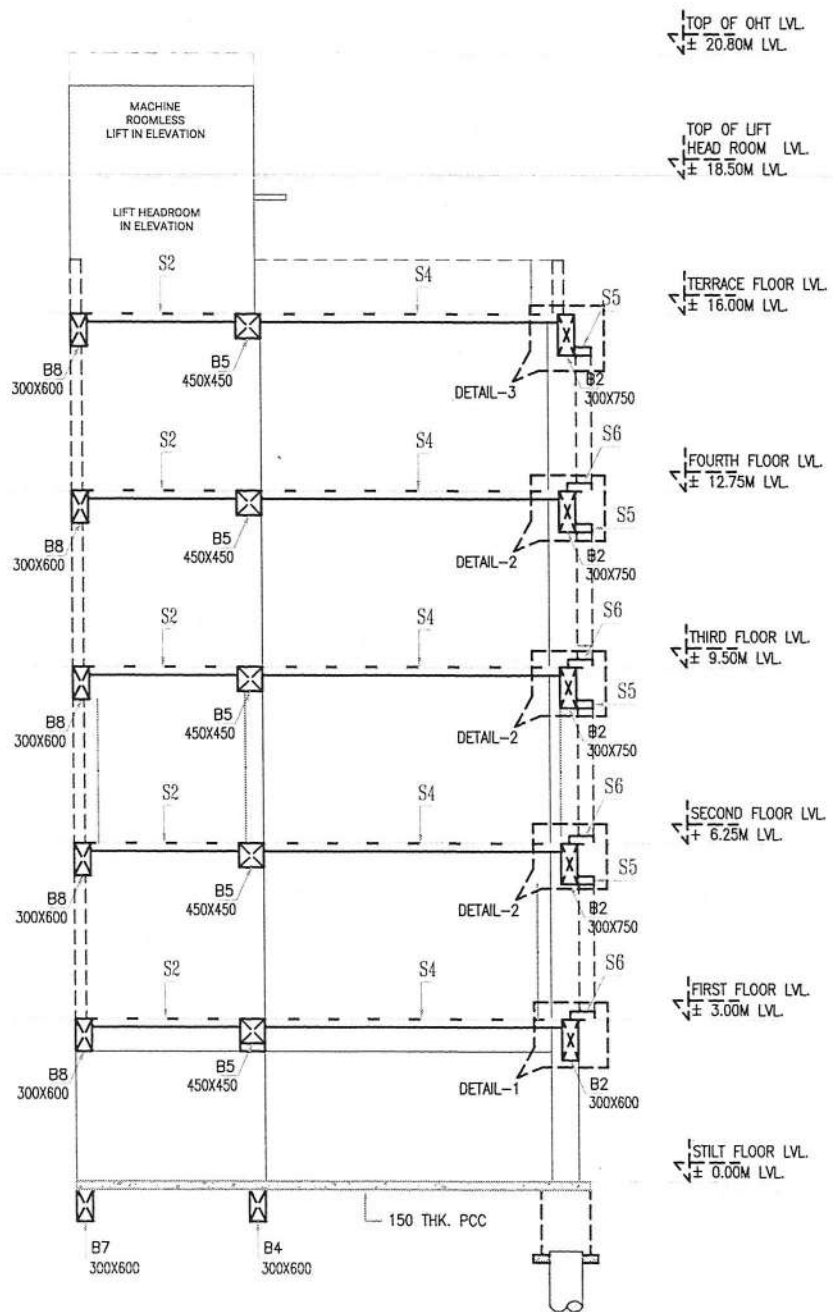
TYPICAL DETAIL OF BEAM
BEAM RESTING ON BEAMS



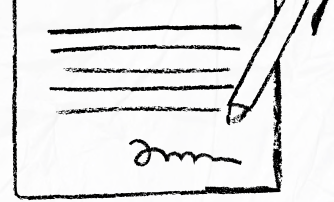
TYPICAL SECTION ONE WAY SLAB



TYPICAL DETAIL OF CONTINUOUS BEAM



SECTION - BB



our services doesn't just end there



Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.



Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.



Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.



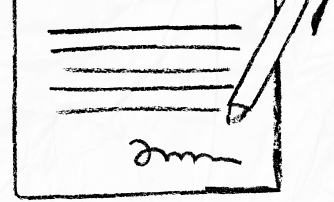
NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management



Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



 **empowering your real estate decisions
with smart tools**



Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter



Ownership, Compliance & Legal Verification

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Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator



Property Documentation & Workflow Tools

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