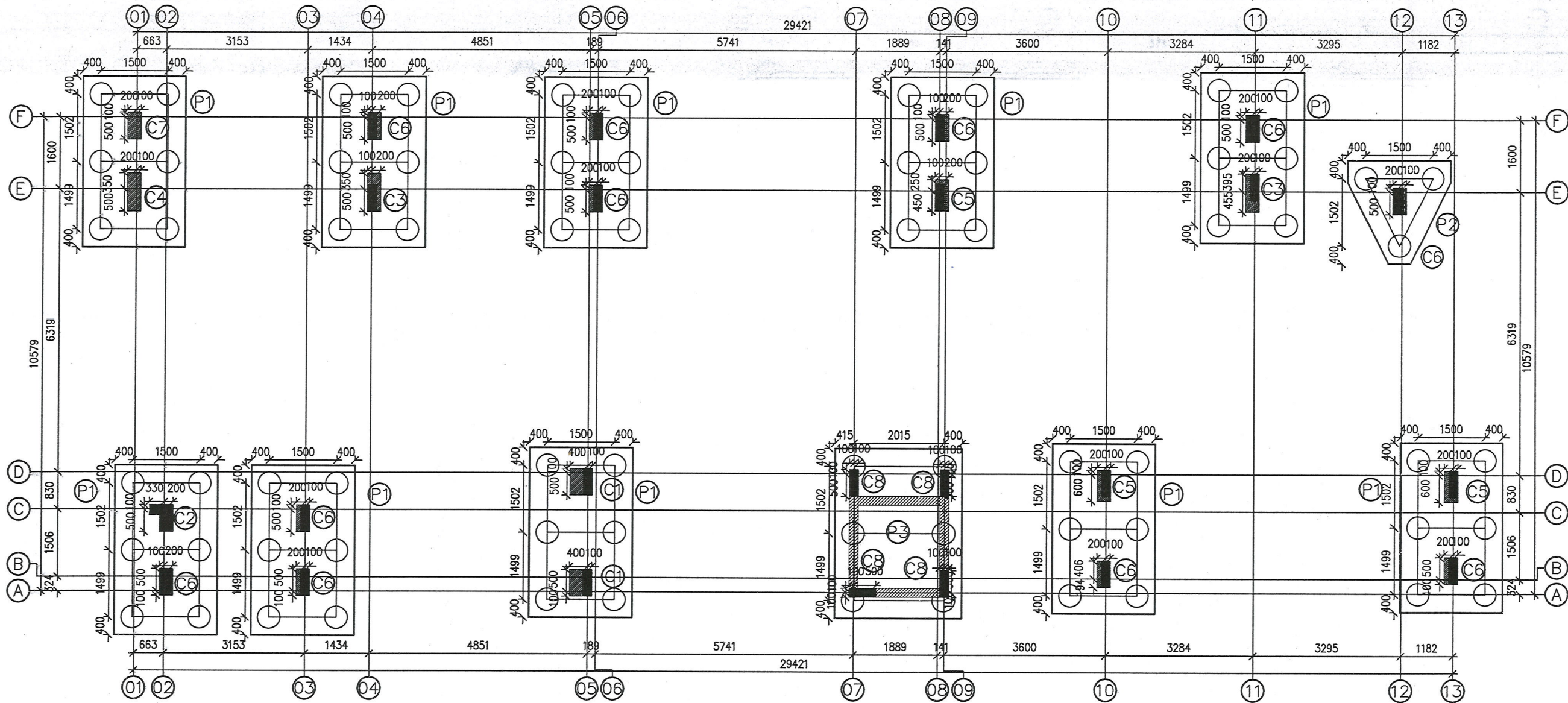




FOUNDATION LAYOUT.

- Notes :
1. All dimensions are in millimetres.
 2. This drawing shall be read in conjunction with relevant architectural drawing.
 3. All dimensions shall be checked and verified before execution of works.
 4. Concrete mix as shown :
for Pile - M30 (Cement Content 380 kg/m³)
for Pile Cap & PB - M25 (Cement Content 340kg/m³)
* Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
* If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
 5. Reinforcement : TOR STEEL for 8mm & above conforming to IS 1785 (latest revision)
 6. Clear concrete cover to main bars :
for footings - 50mm ; for columns - 40mm;
for pile - 50mm , for pile cap - 75mm
 7. Use stone aggregates and sand conforming to IS 383 (latest revision)
stone aggregate size - 20mm and down grade
 8. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
 9. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 (latest revision) for 53 grade cement.
 10. Piles shall be bored and under reamed as accurately as possible.
 11. For construction of piles (Boring and under reaming control of alignment, method of concreting, finishing pile heads, estimation of concrete quantity, etc.) Refer IS 2911 (PART-III) latest edition.
 12. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced. Horizontal ties shall be provided at every 1.5m height.
 13. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.
 14. Foundation designed for G.F.+5FLOORS.

R1	-	-	-
NO.	AMENDMENTS	BY	DATE
SCALE	1:100	DESIGN BY	-
JOB NO	001	DRAWN BY	-
DRG NO	S01	DATE	-

DRAWING TITLE:
FOUNDATION LAYOUT.

PROJECT TITLE :

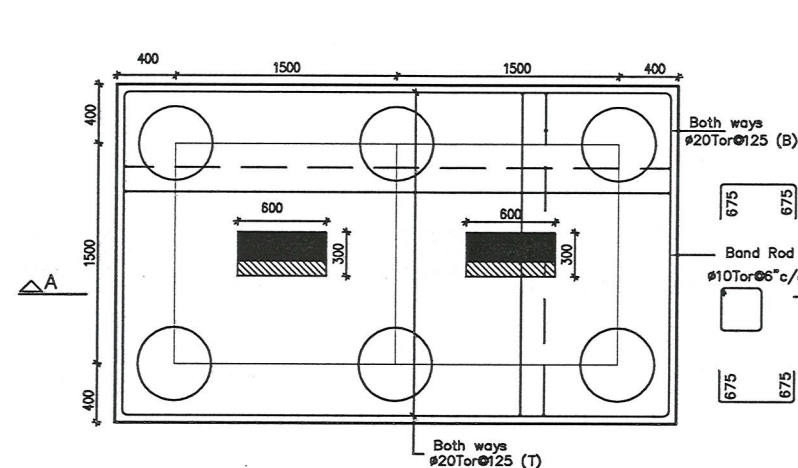
THE PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 4 FLOORS +5TH FLOOR PART RESIDENTIAL BUILDING WITH 9 DWELLING UNITS (18.30 M HEIGHT) AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO.5, NEW DOOR NO.17, KRISHNAMMA ROAD AND NAGESWARA ROAD, NUNGAMBAKKAM, CHENNAI 600034 AND COMPRISED IN R.S.NO.144/5 AND 144/15 IN BLOCK NO.21 OF NUNGAMBAKKAM VILLAGE WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION

STRUCTURAL CONSULTANT

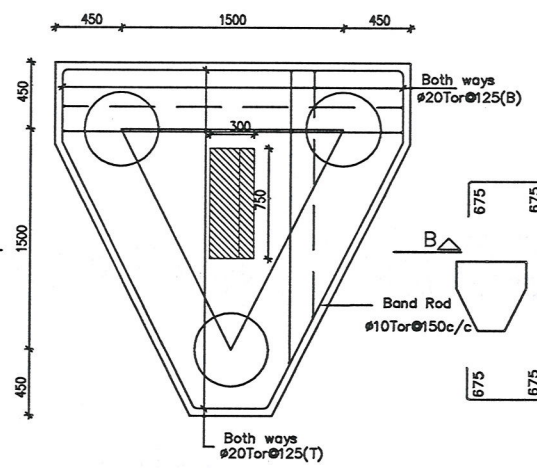
Er. P. RAMAN, B.E (CIVIL), M.E (Struct), MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMAA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF COLUMNS (GRADE-M40)

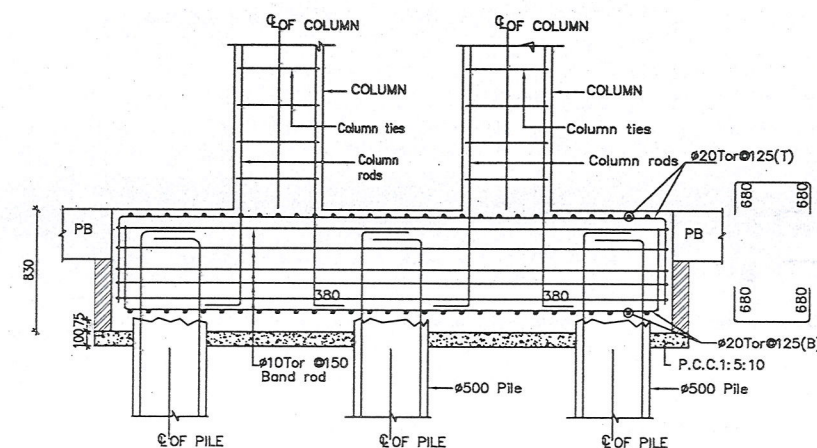
TYPE	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	STIRRUPS
C1	18- ϕ 20 500 600	12- ϕ 20 200 600	12- ϕ 20 200 600	8- ϕ 16+4- ϕ 12 200 600	8- ϕ 16+4- ϕ 12 200 600	8- ϕ 16+4- ϕ 12 200 600	ϕ 8TOR
C2	16- ϕ 20 500 530	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR
C3	18- ϕ 20 300 850	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR
C4	18- ϕ 20 300 850	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR
C5	14- ϕ 20 300 700	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR
C6	12- ϕ 20 300 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR
C7	12- ϕ 20 300 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR
C8	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	12- ϕ 20 200 600	ϕ 8TOR



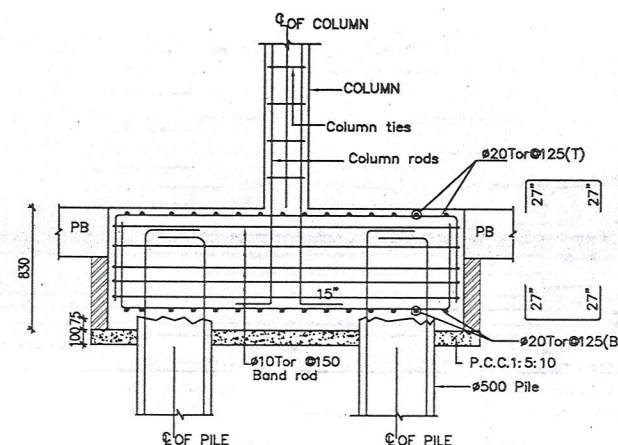
PLAN OF PILE CAP-(P1)
4 PILE GROUPS-(TYPICAL)



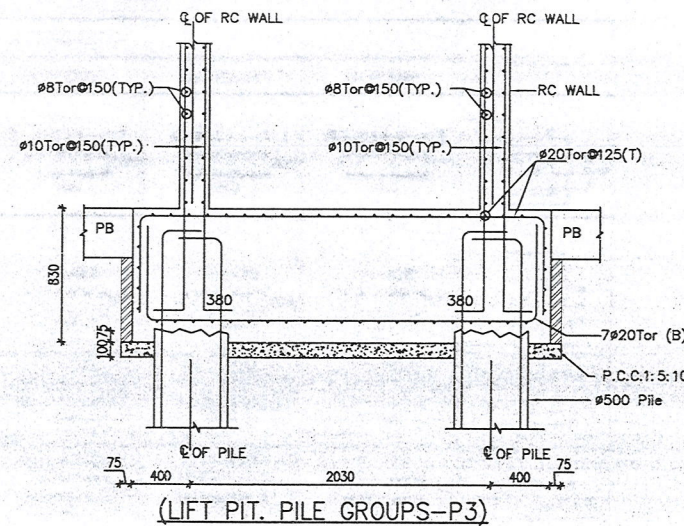
PLAN OF PILE CAP-(P2)
3 PILE GROUPS-(TYPICAL)



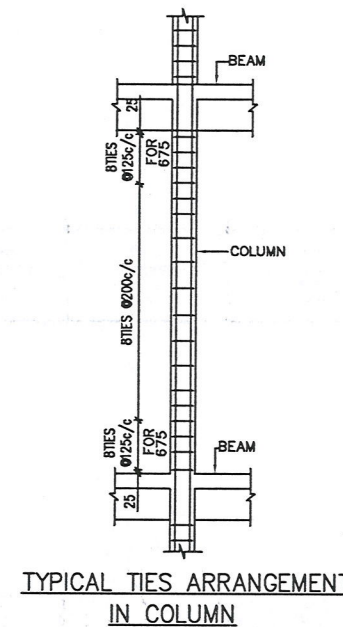
SECTION AT A-A.



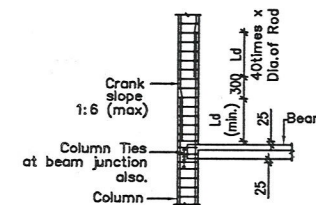
SECTION AT B-B.



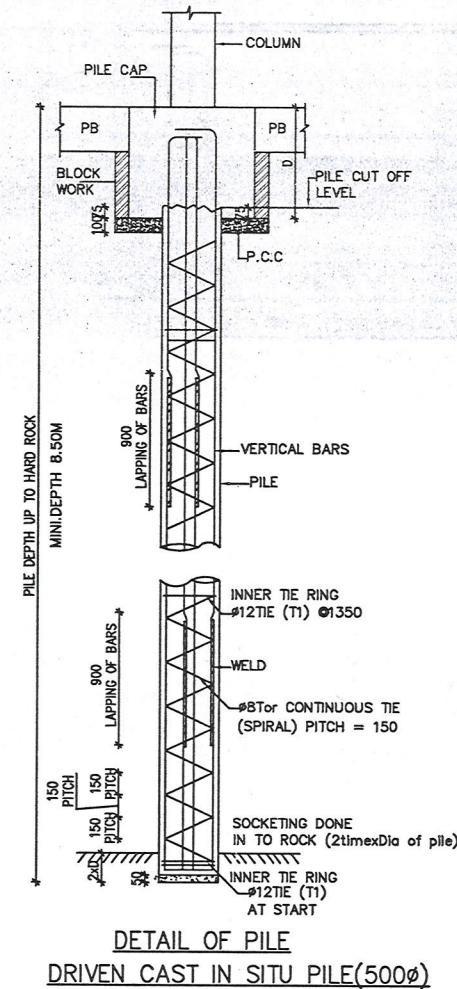
(LIFT PIT. PILE GROUPS-P3)



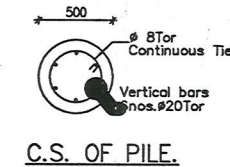
TYPICAL TIES ARRANGEMENT
IN COLUMN



SPICE WITH UPPER BARS
CRANKED INTO POSITION
INSIDE LOWER BARS



DETAIL OF PILE
DRIVEN CAST IN SITU PILE(500)



C.S. OF PILE.

- Notes:
- All dimensions are in millimetres.
 - This drawing shall be read in conjunction with relevant architectural drawing.
 - All dimensions shall be checked and verified before execution of works.
 - Concrete mix as shown :
for Pile - M30 (Cement Content 380 kg/m³)
for Pile Cap & PB - M25 (Cement Content 340kg/m³)
* Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
* If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
 - Reinforcement : TOR STEEL for #8mm & above conforming to IS 1786 (latest revision)
 - Clear concrete cover to main bars :
for footings - 50mm ; for columns - 40mm ;
for pile - 50mm , for pile cap - 75mm
 - Use stone aggregates and sand conforming to IS 383 (latest revision)
stone aggregate size - 20mm and down grade
 - Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
 - Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 (latest revision) for 53 grade cement.
 - Piles shall be bored and under reamed as accurately as possible.
 - For construction of piles (Boring and under reaming control of alignment, method of concreting, finishing pile heads, estimation of concrete quantity, etc.) Refer I.S 2911 (PART-III) latest edition.
 - The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced. Horizontal ties shall be provided at every 1.5m height.
 - The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.
 - Foundation designed for G.F.+5FLOORS.

R1	-	-	-
NO.	AMENDMENTS	BY	DATE
SCALE	1:100	DESIGN BY	-
JOB NO	001	DRAWN BY	-
DRG NO	SD2	DATE	-

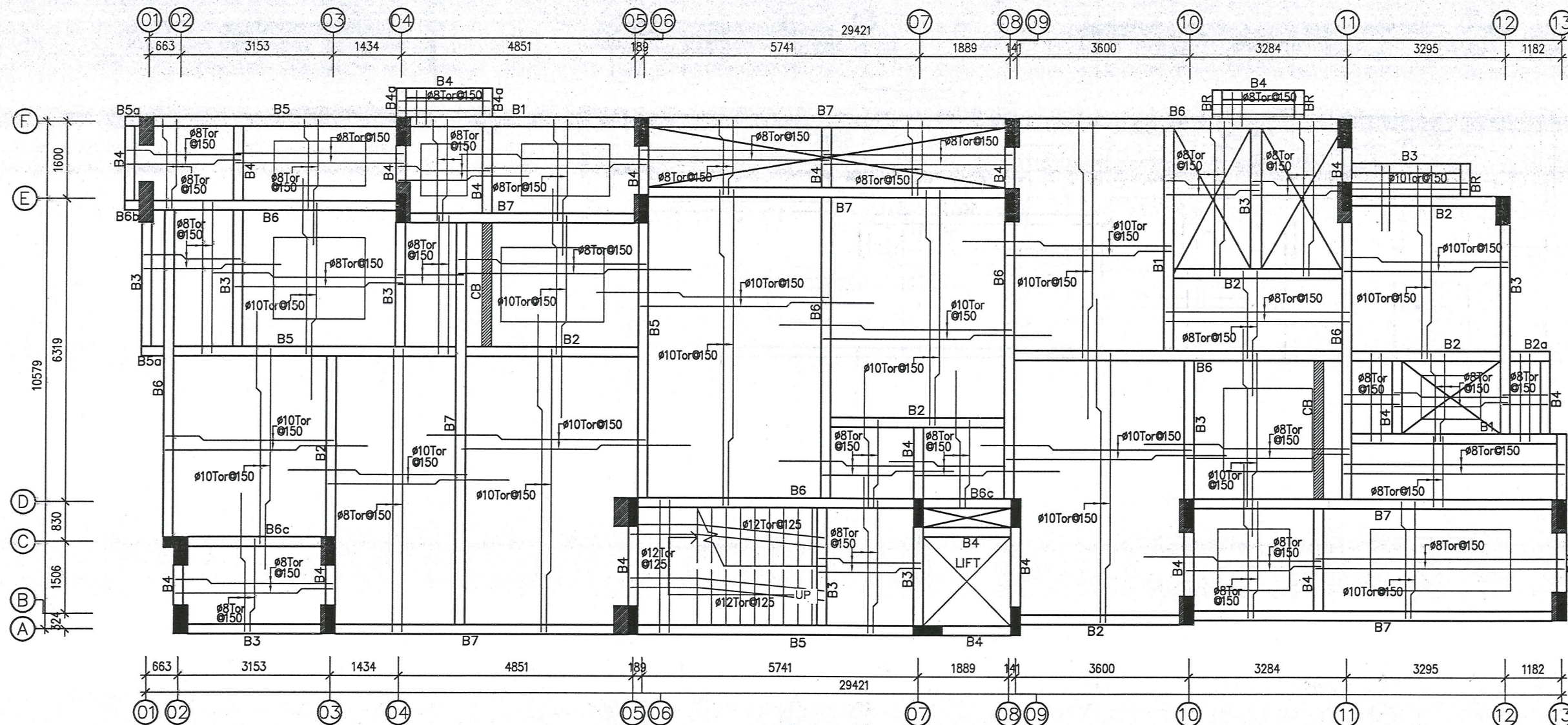
DRAWING TITLE:
COLUMN SCHEDULE AND FOOTING DETAILS.

PROJECT TITLE :

THE PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 4 FLOORS +5TH FLOOR PART RESIDENTIAL BUILDING WITH 9 DWELLING UNITS (18.30 M HEIGHT) AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO.5, NEW DOOR NO.17, KRISHNAMMA ROAD AND NAGESWARA ROAD, NUNGAMBAKKAM, CHENNAI 600034 AND COMPRISED IN R.S.NO.144/5 AND 144/15 IN BLOCK NO.21 OF NUNGAMBAKKAM VILLAGE WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION

STRUCTURAL CONSULTANT

Er. P. RAMAN, M.E., M.A. (Struct.), MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



BEAM LAYOUT OVER GF.
ALL SLAB THICKNESS IS 125MM, UNLESS SPECIFIED.

NOTES:

- All dimensions are in millimetres.
- This drawing shall be read in conjunction with relevant architectural drawing.
- All dimensions shall be checked and verified before execution of works.
- Concrete mix :- M25 (Cement Content-340kg/m³)
- Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
- If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
- Maximum water cement ratio : 0.50.
- REINFORCEMENT :-
TOR STEEL for 8mm & above conforming to IS 1786 (latest revision)
- Clear concrete cover to main bars :-
For slab - 20mm, For beam - 25mm
- Use stone aggregates and sand conforming to IS 383 (latest revision)
- Stone aggregates size - 20mm and down grade
- Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
- Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
- The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced. Horizontal ties shall be provided at every 1.5m height.
- The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

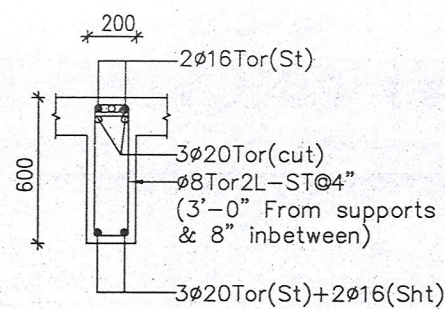
R1	-	-	-
NO.	AMENDMENTS	BY	DATE
SCALE	1:100	DESIGN BY	-
JOB NO	001	DRAWN BY	-
DRG NO	S03	DATE	-
DRAWING TITLE:			
SLAB BEAM LAYOUT.			

PROJECT TITLE :

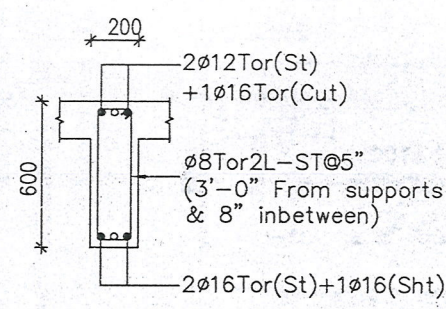
THE PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 4 FLOORS + 5TH FLOOR PART RESIDENTIAL BUILDING WITH 9 DWELLING UNITS (18.30 M HEIGHT) AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO.5, NEW DOOR NO.17, KRISHNAMMA ROAD AND NAGESWARA ROAD, NUNGAMBAKKAM, CHENNAI 600034 AND COMPRISED IN R.S.NO.144/5 AND 144/15 IN BLOCK NO.21 OF NUNGAMBAKKAM VILLAGE WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION

STRUCTURAL CONSULTANT

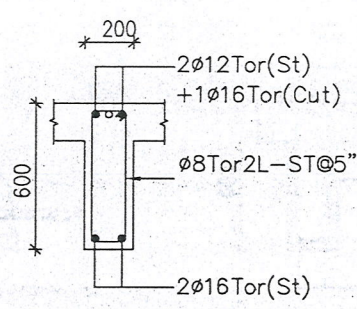
Er. P. RAMAN, B.E (CIVIL), M.E (Struct.), MIE., C.Eng.,
Registered Structural Engineer Grade-1 (SE)
CMDA Reg. No.: SE/GR1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



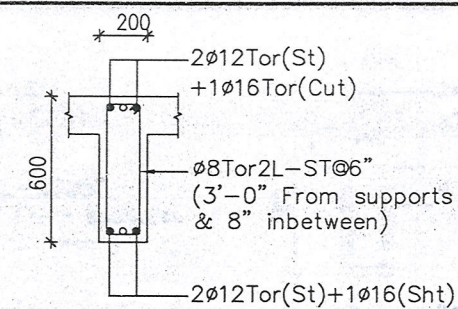
C.S OF BEAM-B1



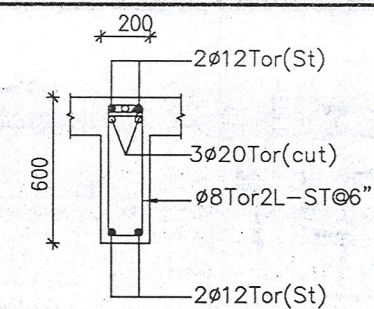
C.S OF BEAM-B2



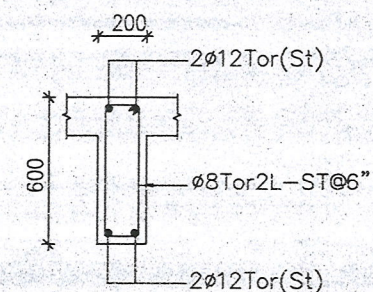
C.S OF BEAM-B2a



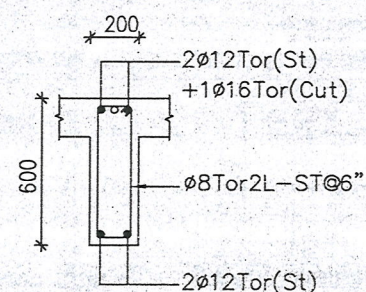
C.S OF BEAM-B3



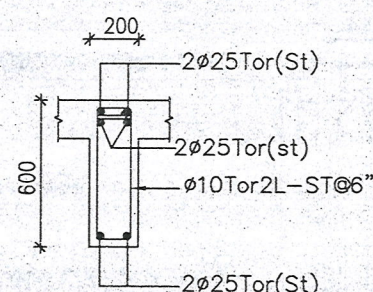
C.S OF BEAM-B3a



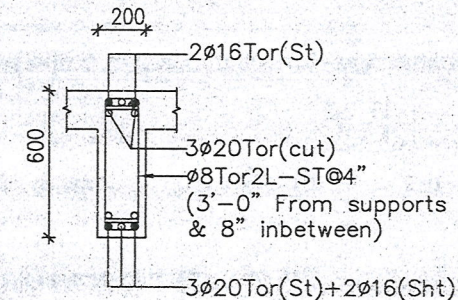
C.S OF BEAM-B4



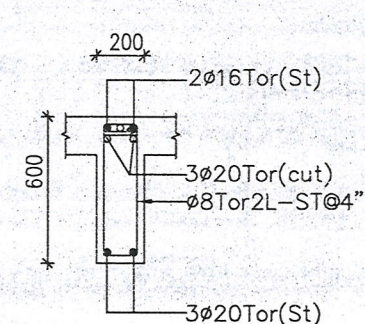
C.S OF BEAM-B4a



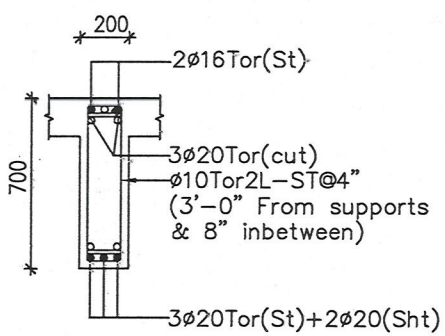
C.S OF BEAM-B4b



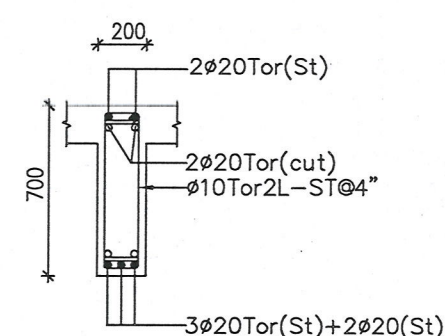
C.S OF BEAM-B5



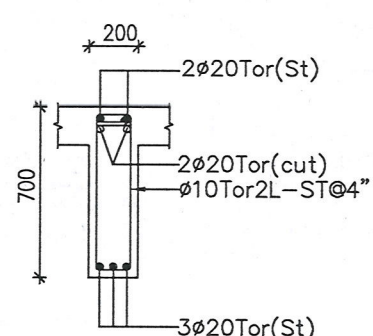
C.S OF BEAM-B5a



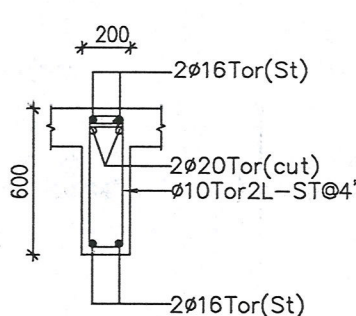
C.S OF BEAM-B6



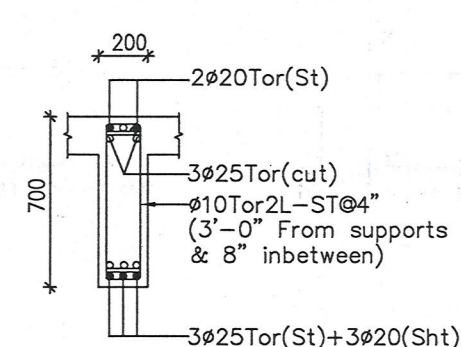
C.S OF BEAM-B6c



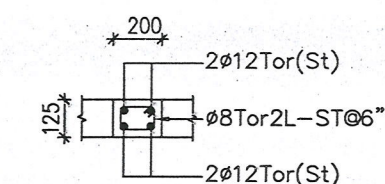
C.S OF BEAM-B6a



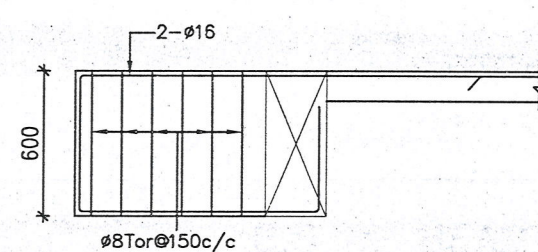
C.S OF BEAM-B6b



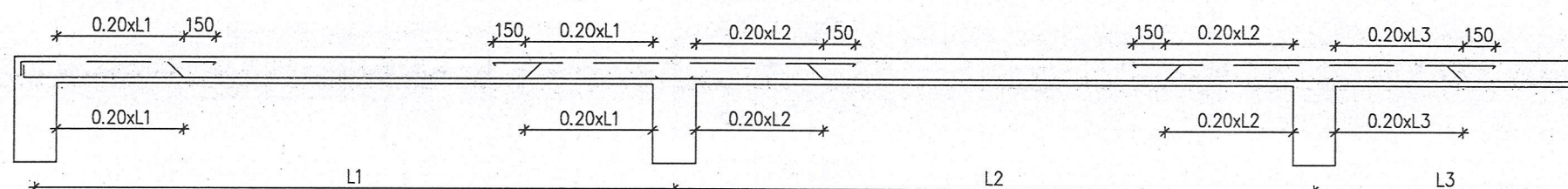
C.S OF BEAM-B7



C.S OF BEAM-CB



L.S of Bracket Beam (BR)
200X600



TYPICAL SLAB ROD BENDING DETAILS.

- NOTES:
- All dimensions are in millimetres.
 - This drg shall be read in conjunction with relevant architectural drawing.
 - All dimensions shall be checked and verified before execution of work.
 - Concrete mix :- M25 (Cement Content-340kg/m³)
 - Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
 - If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
 - Maximum water cement ratio : 0.50.
 - REINFORCEMENT :-
 - TOR STEEL for Ø8mm & above conforming to IS 1786 (latest revision)
 - Clear concrete cover to main bars :-
 - For slab - 20mm, For beam - 25mm
 - Use stone aggregates and sand conforming to IS 383 (latest revision)
 - Stone aggregates size - 20mm and down grade
 - Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
 - Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12289 for 53 grade cement.
 - The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced. Horizontal ties shall be provided at every 1.5m height.
 - The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

R1	-	-	-
NO.	AMENDMENTS	BY	DATE
SCALE	1:100	DESIGN BY	-
JOB NO	001	DRAWN BY	-
DRG NO	S04	DATE	-

DRAWING TITLE:
RCC DETAILS OF SLAB BEAM CS.

PROJECT TITLE :-

THE PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 4 FLOORS + 5TH FLOOR PART RESIDENTIAL BUILDING WITH 9 DWELLING UNITS (18.30 M HEIGHT) AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO.5, NEW DOOR NO.17, KRISHNAMMA ROAD AND NAGESWARA ROAD, NUNGAMBAKKAM, CHENNAI 600034 AND COMPRISED IN R.S.NO.144/5 AND 144/15 IN BLOCK NO.21 OF NUNGAMBAKKAM VILLAGE WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION

STRUCTURAL CONSULTANT

[Signature]
Er. P. RAMAN, B.E (Civil), M.E (Struct), MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.