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M Audiseshaiah
& Sons

Architects, Engineers & Project Management Consultants

08-10-2024

STRUCTURAL STABILITY CERTIFICATE

Plan Showing **The proposed Construction of a Stilt floor (parking)+ 3 Floors (Office) Commercial Building at Old Door No:336 to 344, New Door No: 336, Poonamallee High Road, Aminjikarai, Chennai-600029, Comprised in Old S.No. 70/1 part, T.S.No. 2/8, Block No: 23, Ward -1 of Aminjikarai Village within the limits of Greater Chennai Corporation**

For STILT + THREE Floors are designed according to the following CODES OF PRACTICE.

IS 875-1987 CODE OF PRACTICE for Design Loads (part 1, 2, 3 & 5).

IS 456-2000 CODE OF PRACTICE for Plain and Reinforced Concrete.

IS 1786-1985 CODE OF PRACTICE Specified for High Strength Deformed Steel Bars &Wires for Concrete Reinforcement

IS 2911-1979 CODE OF PRACTICE for Design and Construction of Isolated Foundation

IS 1893-2016 CODE OF PRACTICE for Earthquake Resistant Design of Structures

The load coming over the individual column is distributed through the pile foundation. The columns are laterally stabilized at the **Plinth Beam and at the Roof level.**

Detailed Foundation, Columns Calculations for a Single Column along with the beam design are Enclosed as sample calculations.

Structure is structurally sound and safe.

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GSTIN:33AAWFA2842G1ZF

Annexure –XIV

[See rule 51(3)]

Form 1

Structural Design Basis Report

(1) This report to accompany the application for Building Developments

Part1	General Data		
S.No.	**Description**	**Information**	**Notes**
1.	Site Address	PLAN SHOWING **The proposed Construction of a Stilt floor (parking)+ 3 Floors (Office) Commercial Building at Old Door No:336 to 344, New Door No: 336, Poonamallee High Road, Aminjikarai, Chennai-600029, Comprised in Old S.No. 70/1 part, T.S.No. 2/8, Block No: 23, Ward -1 of Aminjikarai Village within the limits of Greater Chennai Corporation**	
2	Name of Owner	M/s. Shri Raman Developers	
3	Name of Registered Developer along with the Registration Number	NA	
4	Name of Registered Architect/Engineer along with the Registration Number		
5	Name of Registered Structural engineer along with the Registration Number	Mr. VENKAT SUBBARAO M RE/GR-I/19/03/070	
6	Use of the building	COMMERCIAL	
7	Number of stories above ground level (includingstorey's to be added later, if any)	Stilt+3	
8	Number of basements below ground level	NILL	
9	Type of structure Load bearingwalls R.C.C. frame R.C.C. frame and Shear Walls Steel frame	R.C.C FRAME	
10	Soil data Type of soil Safe vertical load	(Greyish silty Sand) 550KN/m²	IS:1893 C1.6.3.5.2 IS:1904 IS: 1892 IS: 2131 IS: 2720
11	Dead loads (unit weight adopted) • Earth • Water • Brickmasonry • Plain cementconcrete • Reinforced cementconcrete • Floorfinish • Other fillmaterials	 10KN/m³ 19 KN/m³ 25KN/m³ 1.5KN/m²	IS: 875 Part 1
12	Imposed (live) loads Floor loads Roof loads	 3KN/m² 1.5KN/m²	IS: 875 Part 2
13	Cyclone/Wind • Speed • Design pressureintensity	50m/s 1717.35N/m²	IS: 875 Part 3
14	Seismic zone	III	IS: 1893 (2002)

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15	Importance factor	1.2	IS:1893(2002) Table 6
16	Seismic zone factor (Z)	0.16	IS:1893 Table 2
17	Response reduction factor	5	IS:1893 Table 7
18	Fundamental natural period – approx.	0.22	IS:1893 C1.7.6
19	Design horizontal acceleration spectrum value (A_h)	0.08	IS: 1893 C1.6.4.2
20	♠Expansion/Separation Joints	-	
21	Building is regular/irregular	REGULAR	IS 1893

♥Enclose detailed drawings drawn to scale for each floor

♦ In case terrace garden is provided, indicate additional fill load and live load along with the detailed drawings drawn toscale

Part 2	**Load bearing masonrybuildings**				
Sl.No.	**Description**	**Information**			**Notes**
1	Building category				IS: 4326 C1.7 Read with IS:1893 Zone / Bldg. | II | III | IV | V Ordinary | B | C | D | E Important | C | D | E | E
2	Basement Provided				
3	Number of floors including Ground Floor (all floors including stepped floors in hill slopes)				
4	Type of wall masonry				
5	Type and mix of Mortar				IS: 4326 C1.8.1.2
6	Re: size and position of openings (See note No.[i]) • Minimum distance(b5) • Ratio $(b_1+b_2+b_3)/l_1$ or $(b_6+b_7)/l_2$ • Minimum pier width between consequentopening (b_4) • Vertical distance(h_3) • Ratio of wall height to thickness4 Ratio of wall length between cross wall to thickness				IS: 4326 Table 4, Fig.7
7	Horizontal seismic band • at plinthlevel • at window silllevel • at lintellevel • at ceilinglevel • at eave level of sloping roof • at top of gablewalls	P ϒ ϒ ϒ ϒ ϒ ϒ	IP ϒ ϒ ϒ ϒ ϒ ϒ	NA ϒ ϒ ϒ ϒ ϒ ϒ	(see note No.2) IS:4326 C1 8.4.6 IS: 4326 C1 8.3 IS: 4326 C1 8.4.2 IS: 4326 C18.4.3 IS: 4326 C18.4.3 IS: 4326 C18.4.4

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	• at top of ridgewalls	ϒ	ϒ	ϒ	
8	Vertical reinforcing bar at corners and T junction of walls at jambs of doors and window openings	ϒ ϒ	ϒ ϒ	ϒ ϒ	IS: 4326 C1 8.4.8. IS: 4326 C1 8.4.9
9	Integration of prefab roofing/flooring elements through reinforced concrete screed.	ϒ	ϒ	ϒ	IS:4326 C1 9.1.4
10	Horizontal bracings in pitched truss in horizontal plane at the level of ties in the slopes of pitched roofs	ϒ ϒ	ϒ ϒ	ϒ ϒ	

Notes: (i) Information in Item 6 should be given on separate A4 sheets for all walls with large number of openings

(ii) IP indicated "Information Provided"

IP indicates "Information to be provided"

NA indicates "Not Applicable"

Tick mark one box

Part 3	**Reinforced concrete framed buildings**		
Sl. No.	**Description**	**Information**	**Notes**
1	Type of building • Regularframes • Regular frames with ShearWalls • Irregularframes • Irregular frames with ShearWalls • Soft storey	Regular Frame	IS: 1893 C1 7.1
2	Number of basements	-	
3	Number of floors including ground floor	04	
4	Horizontal floor system • Beams andslabs • Waffles • Ribbedfloor • Flat slab withdrops • Flat plate withoutdrops	Beams and Slabs	
5	Soil data • Type ofsoil • Recommended type offoundation -Independent footings -Raft -Piles • Safe Vertical capacity of pile soil • Recommended type, length, diameter and load capacity ofpiles • Depth of watertable • Chemical analysis of groundwater • Chemical analysis ofsoil	(Greyish silty Sand) Pile foundation 6.5m	IS: 1498

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6	Foundations Depth below ground level Type Independent Interconnected Raft Piles	14.00m	
7	System of interconnecting foundations Plinth beams Foundation beams	Plinth Beams	IS: 1893 C1 7.12.1
8	Grades if concrete used in different parts of building	M30	
9	Method of analysis used	Finite Element Analysis	
10	Computer software used	ETABS	
11	Torsion included	-	IS: 1893 C1 7.9
12	Base shear a. Based on approximate fundamental period b. Based on dynamicanalysis c. Ratio ofa/b		IS: 1893 Cl. 7.5.3
13	Distribution ofseismic forces along the Height of the building.		IS:1893 Cl.7.7 (Provide sketch)
14	The Column of soft ground storey specially Designed.		IS: 1893 Cl.7.10
15	Clear minimum cover provided in • Footing • Column • Beams • Slabs • Walls	75mm 40mm 25mm 20mm	IS: 456 Cl. 26.4
16	Ductile detailing of RC frame • Type of reinforcementused • Minimum dimension ofbeams • Minimum dimension ofcolumns • Minimum percentage of reinforcement of beams at any crosssection • Maximum percentage of reinforcement at any section ofbeam • Spacing of transverse reinforcement in 2-d length of beams near theends • Ratio of capacity of beams in shear to capacity of beams in flexure • Maximum percentage of reinforcement incolumn • Confining stirrups near ends of columns and in beam-columnjoints Diameter Spacing • Ratio of shear capacity of columnsto maximum seismic shear in the	-	IS: 456 Cl. 5.6 IS: 13920 Cl.6.1 IS: 13920 Cl.7.1.2 IS: 456 Cl.26.5.1(a) IS: 13920 Cl.6.2.1 IS: 456 Cl.26.5.1.1(b) IS: 13920 Cl.6.2.2 IS: 13920 Cl.6.3.5 IS: 456 Cl.26.5.3.1 IS: 13920 Cl. 7.4

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	storey.		
17	Does the features require clearance by SDRP Example: High rise building Prefab building Building in hazard prone areas		

Foundation

i. In case raft foundation has been adopted, indicate K value used for analysis of the raft.

ii. Incase pile foundations have been used, give full particulars of the piles, type, Dia, Length,Capacity

iii. In case of high water table, indicate system of countering water pressure, and indicate the existing water table, and that assumed to designfoundations.

Idealization for Earthquake analysis

i. In case of composite system of shear walls and rigid frames, give distribution of baseshear

in the two systems on the basis of analysis, and that used for design of each system

ii. Indicate the idealization of frames and shear walls adopted in the analysis with the help ofsketches.

iii. Submit framing plans of eachfloor

iv. In case of basements, indicate the system used to contain earthpressures.

Part 4	**Buildings in structural steel**		
1	Adopted method of design	○ Simple ○ Semi-rigid ○ Rigid	IS:800 Cl3.4.4 IS:800 Cl.3.4.5 IS:800Cl.3.5.6
2	Design based on	○ Elasticanalysis ○ Plasticanalysis	IS: 800 Section-9 SP;6 (6)
3	Floor construction	○ Composite ○ Noncomposite ○ Boarded	
4	Roof construction	○ Composite ○ Noncomposite ○ Metal ○ Anyother	
5	Horizontal force resisting system adopted	Frames Bracedframes Frames & shear walls	Note: Seismic force As per IS:1893 Would depend on system
6	Slenderness ratios maintained	Members defined in Table 3.1, IS:800	IS 800; Cl.3.7
7	Member deflection limited to	Beams,Rafters Crane Girders, Purlins Top ofcolumns	IS:800 Cl.3.13
8	Structural members	○ Encased inconcrete Not encased	IS: 800 Section-10
9	Proposed material	○ Generalweld-able ○ Highstrength ○ Coldformed ○ Tubular	IS: 2062 IS: 8500 IS: 801, 811 IS: 806
10.	Minimum metal	○ Hot rolledsections	IS: 800, Cl.3.8

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	thickness Specified for corrosion protection	○ Cold formedsections ○ Tubes	Cl.3.8.1 to Cl.3.8.4 Cl.3.8.5
11	Structural connections	○ Rivets ○ CTBolts ○ S H F GBolts ○ BlackBolts ○ Welding field Shop (Specify welding type proposed)Composite	IS: 800, Section-8 IS: 1929, 2155, 1149 IS 6639,1367 IS 3757,4000 IS: 1363, 1367 IS: 816, 814,1395, 7280, 3613, 6419, 6560, 813, 9595
12	Minimum Fire rating proposed, with method	○ Rating...2 hours ○ Methodproposed. -In tumescent painting -Spraying -Quilting -Fire retardant boarding	IS: 1641, 1642, 1643

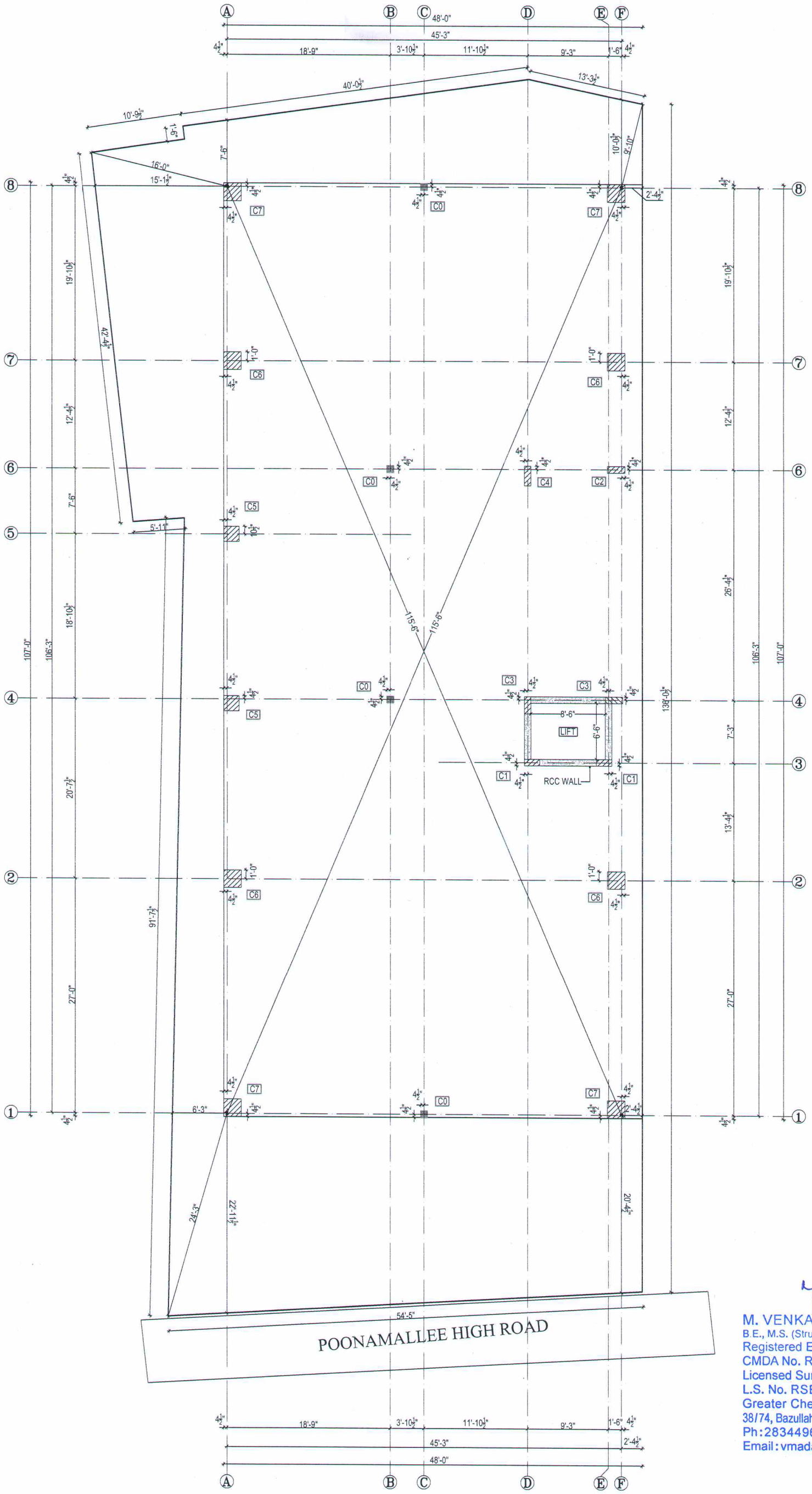
Part-5

Any special weakness in the building making it vulnerable for stabilityRelatedfailure and the precaution to be taken during execution/completion and finishing to be indicated.

Part-6

Recommendations of structural Engineer with respect to special requirementsneeded with respect to structural safety and stability to be taken note of by competent authority feature like incorporation of swimming pool, heavy load on roof ,prefabricated structure or any other hazardous features should be included.

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ADDRESS	LICENSE				
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		DESIGN BY:	MANIKANDAN	SCALE:	NTS
		DRAWN BY:	MANIKANDAN	DATE:	28.05.2024
		CHECKED BY:	VENKAT	PROJECT:	2023018
		BUILDING:	COMMERCIAL BUILDING		
		FLOOR:	CENTERLINE DRAWING		

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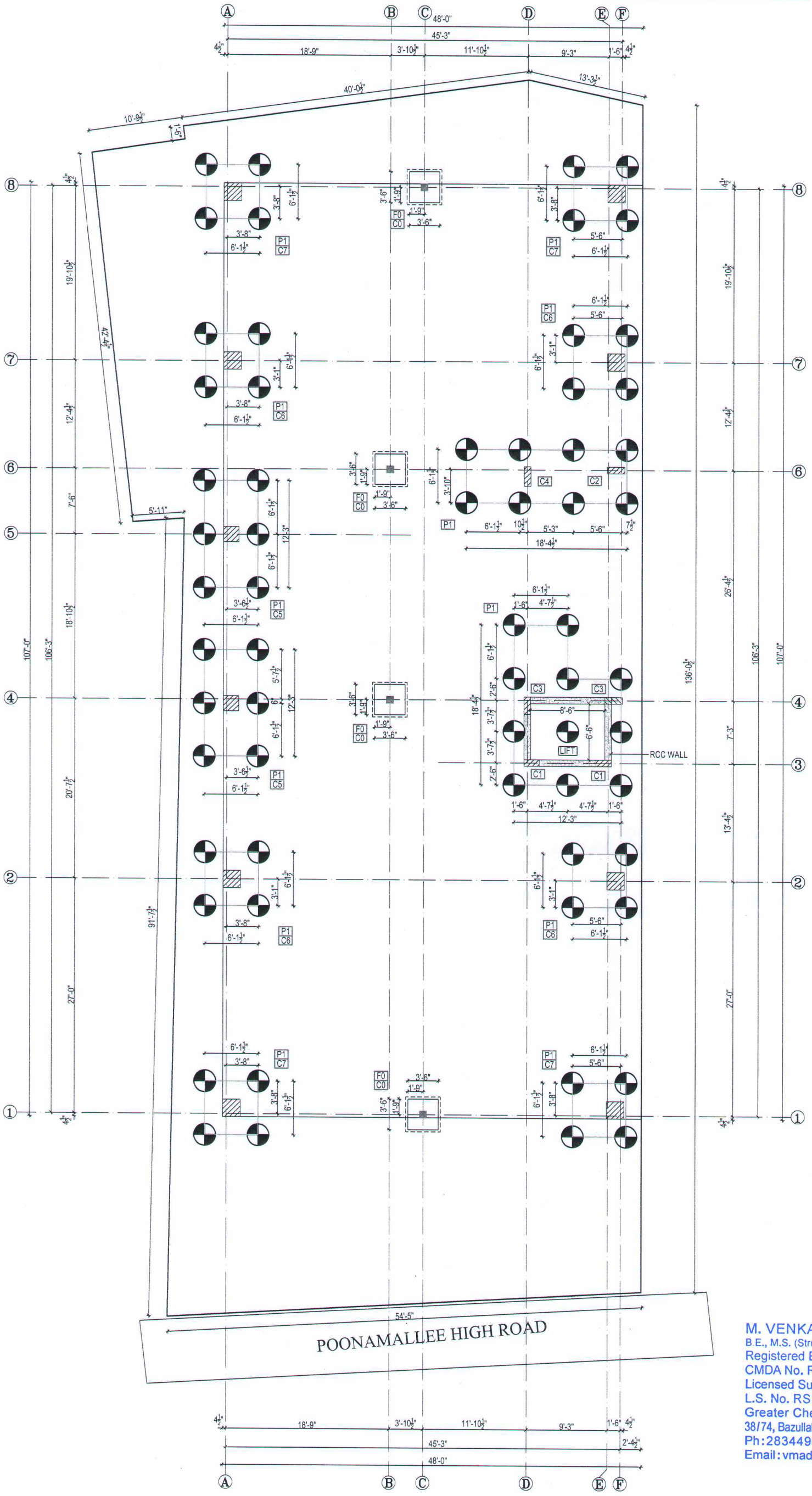
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		BUILDING:	COMMERCIAL BUILDING		
		FLOOR:	PILE LOCATION DRAWING		

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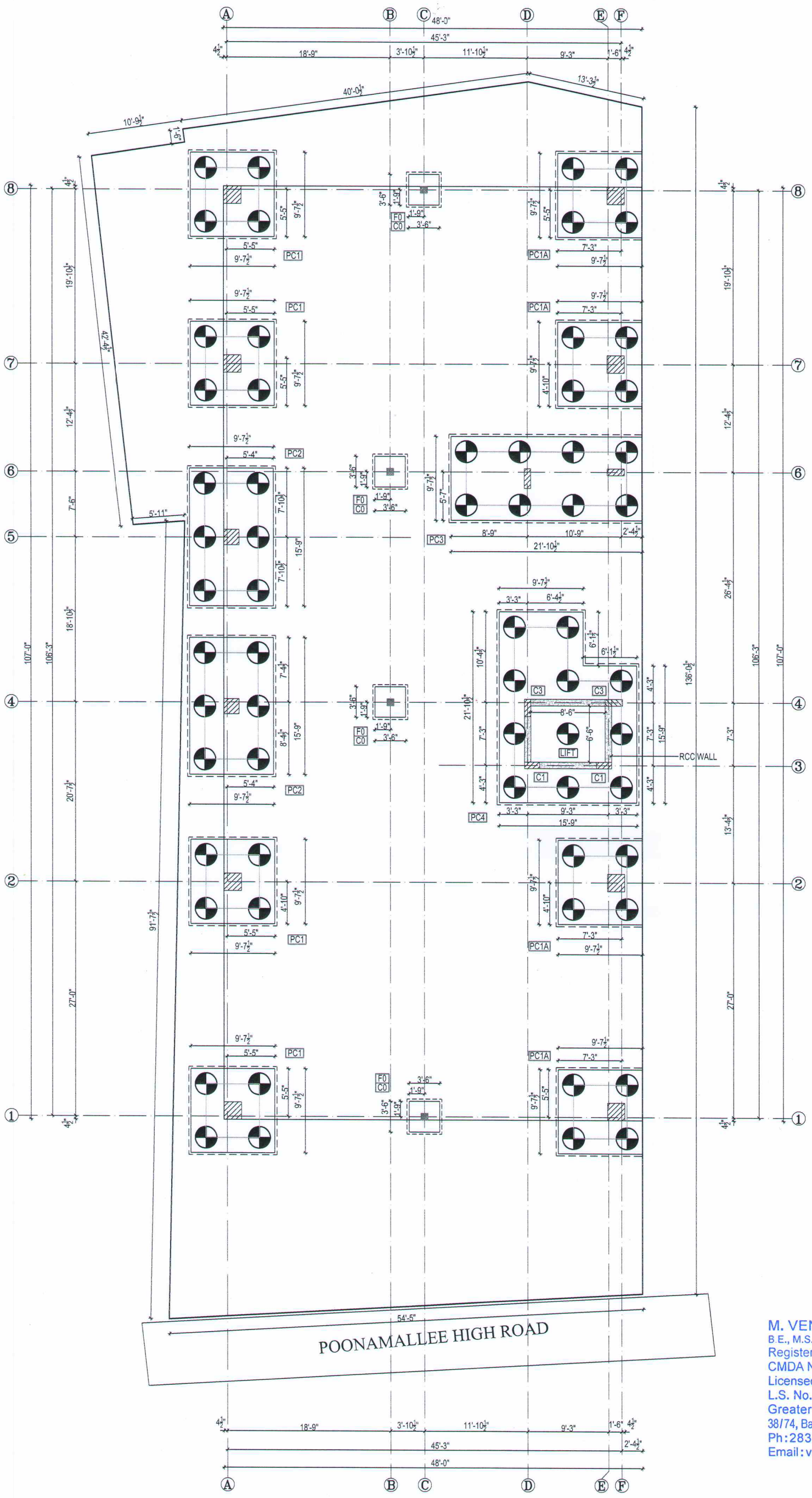
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BUILDING:	COMMERCIAL BUILDING		
FLOOR:	PILE CAP LOCATION DRAWING		

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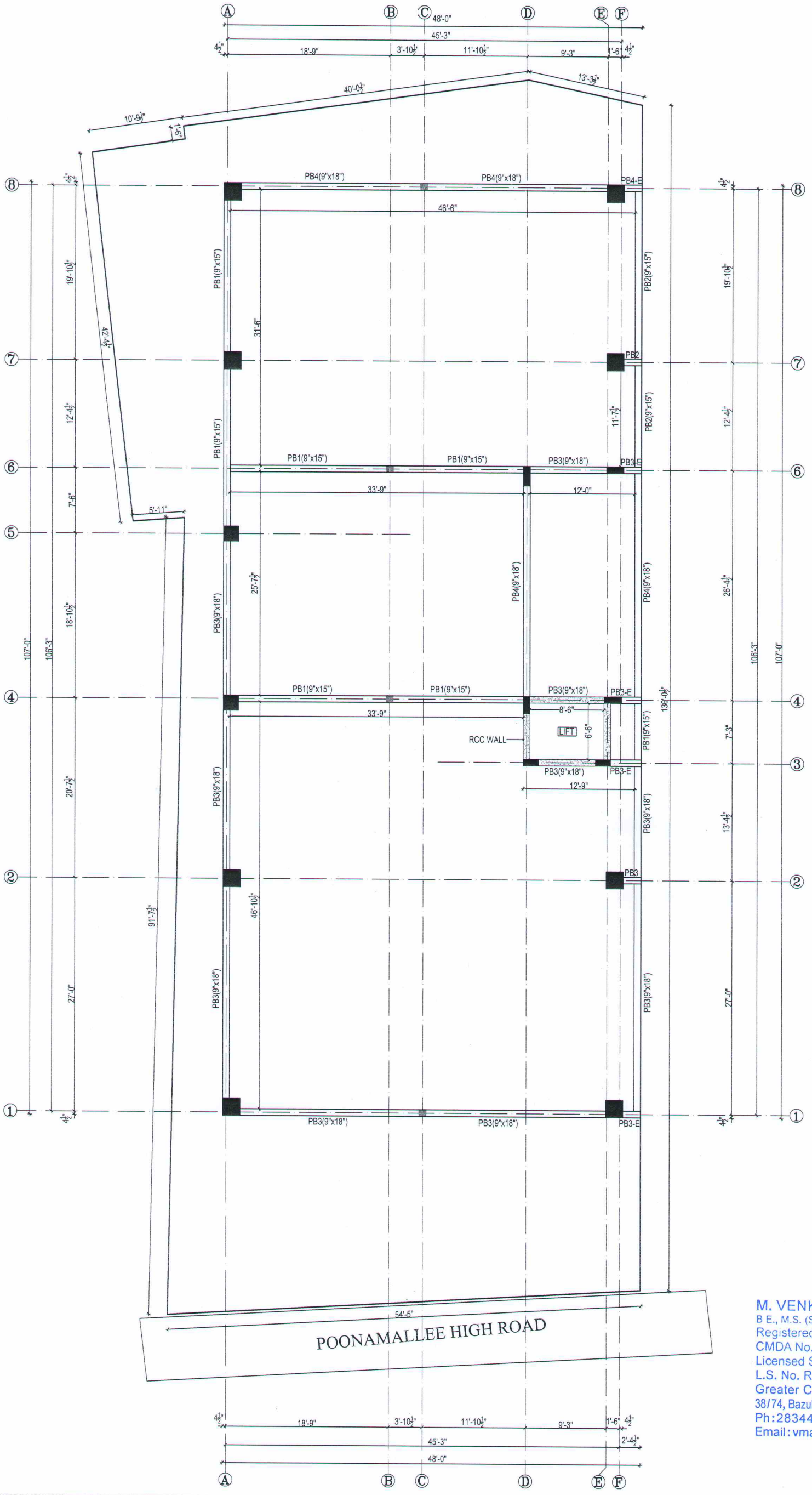
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		CHECKED BY:	VENKAT	PROJECT:	2023018
		BUILDING:	COMMERCIAL BUILDING		
		FLOOR:	PLINTH BEAM DRAWING		

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COLUMN SCHEDULE (M30)

NAME	COLUMN LOCATIONS	REINFORCEMENT DETAILS UPTO PLINTH LVL TO FINAL FLOOR ROOF LVL	TIES DETAILS UPTO PLINTH LVL TO FINAL FLOOR ROOF LVL	COLUMN TIES	NO.OF COLUMNS
C0	B4 - B6 C1 - C8	9" x 9" ● (4) - 12Ø COL. UP TO PLINTH	① 1 - TIES COL. UP TO PLINTH	8Ø @ 8"c/c	04
C1	D3 - E3	1'-9" x 9" ● (8) - 20Ø	① ② 2 - TIES	8Ø @ 8"c/c	02
C2	F6	2'-0" x 9" ● (8) - 16Ø	① ② 2 - TIES	8Ø @ 8"c/c	01
C3	D4 - E4	2'-0" x 9" ● (8) - 25Ø	① ② 2 - TIES	8Ø @ 8"c/c	02
C4	D6	2'-3" x 9" ● (14) - 25Ø	① ② ③ ④ 3 - TIES	8Ø @ 8"c/c	01
C5	A4 - A5	1'-9" x 1'-9" ● (12) - 20Ø	① ② ③ 3 - TIES	8Ø @ 8"c/c	02
C6	A2 - A7 F2 - F7	2'-0" x 2'-0" ● (12) - 20Ø	① ② ③ 3 - TIES	8Ø @ 8"c/c	04
C7	A1 - A8 F1 - F8	2'-0" x 2'-0" ● (16) - 32Ø	① ② ③ ④ ⑤ 5 - TIES	8Ø @ 8"c/c	04
			TOTAL		16 + 04 = 20

FOOTING DETAILS (M25)

NAME	FOOTING LOCATION	FOOTING SIZE L x B	DEPTH "D"	DEPTH "d"	REINFORCEMENT (BOTHWAYS) BAR -1	REINFORCEMENT (BOTHWAYS) BAR -2	NO OF FOOTINGS
FO	B4 , B6 , C1 , C8	3'-6" x 3'-6"	12"	-	8@ 6" c/c	8@ 6" c/c	04
						TOTAL	04

PILE FOUNDATION DETAILS (M30)

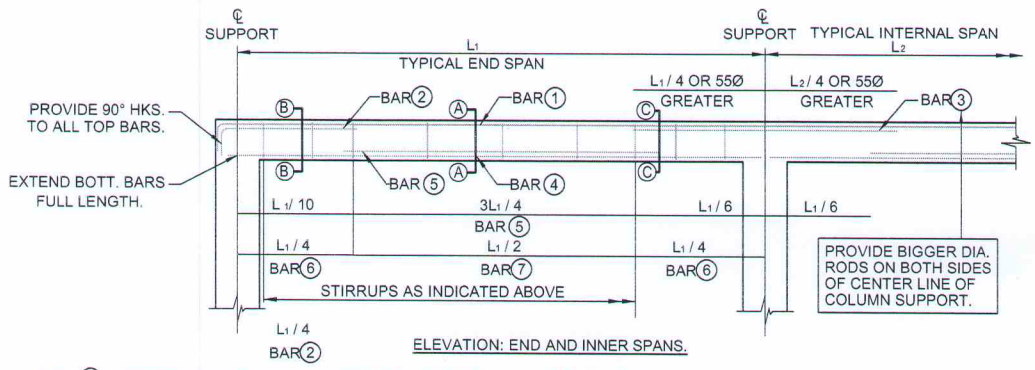
NAME	SIZE (mm)	SHAPE	DEPTH	REINFORCEMENT BAR - 7	TIES BAR - 8	NO. OF PILES
P1	750Ø	2'-6"	14.00 m (OR) REST ON ROCK	(8) - 16Ø	8Ø @ 6" c/c	63
					TOTAL	63

PILE CAP DETAILS (M30)

NAME	SIZE "L x B"	PILE CAP DEPTH (D)	NO's CAPS	REINFORCEMENT DETAILS TOP REINFORCEMENT HORIZONTAL (1& 2)	REINFORCEMENT DETAILS BOT. REINFORCEMENT BOTH WAYS(3 & 4)	STIRRUPS HORIZONTAL.TIES BAR - 5
PC1	9'-7½" x 9'-7½"	3'-6"	04	12Ø @ 5" C/c	16Ø @ 5" C/c	12Ø @ 6" C/c
PC1	9'-7½" x 9'-7½"	3'-6"	04	12Ø @ 5" C/c	20Ø @ 5" C/c	12Ø @ 6" C/c
PC2	15'-9" x 9'-7½"	3'-6"	02	12Ø @ 5" C/c	16Ø @ 5" C/c	12Ø @ 6" C/c
PC3	21'-10½" x 9'-7½"	3'-6"	01	12Ø @ 5" C/c	16Ø @ 5" C/c	12Ø @ 6" C/c
PC4	REF TO DWG	3'-6"	01	12Ø @ 5" C/c	16Ø @ 5" C/c	12Ø @ 6" C/c
		TOTAL	12			

PLINTH BEAM DETAILS (M30)

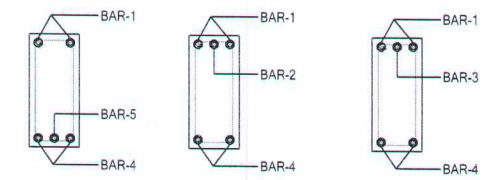
NAME	SIZE	TOP BAR-1 CONT.	TOP BAR-2 L/4 - SUP	TOP BAR-3 2L/4-MIDSUP	BOTTOM BAR-4 CONT.	BOTTOM BAR-5 3L/4-MID	STIRRUPS BAR-6 L/4 - SUP	STIRRUPS BAR-7 L/2-MID SUP
PB1	9" x 15"	(2) - 12Ø	(1) - 12Ø	(1) - 12Ø	(2) - 12Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
PB2	9" x 15"	(2) - 12Ø	-	(2) - 16Ø	(2) - 12Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
PB3	9" x 18"	(2) - 12Ø	(1) - 16Ø	(1) - 16Ø	(2) - 12Ø	(1) - 12Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
PB4	9" x 18"	(2) - 16Ø	(1) - 16Ø	(1) - 16Ø	(2) - 16Ø	(1) - 12Ø	8Ø @ 6" c/c	8Ø @ 8" c/c



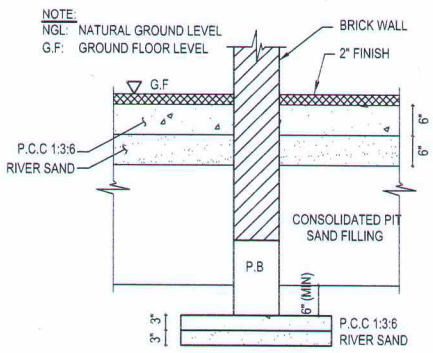
ELEVATION: END AND INNER SPANS.

BAR (?) - SEE BEAM SCHEDULE FOR BAR SIZES. REFER TO PLANS FOR REQUIRED REINFORCEMENT. REINF. COVER TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

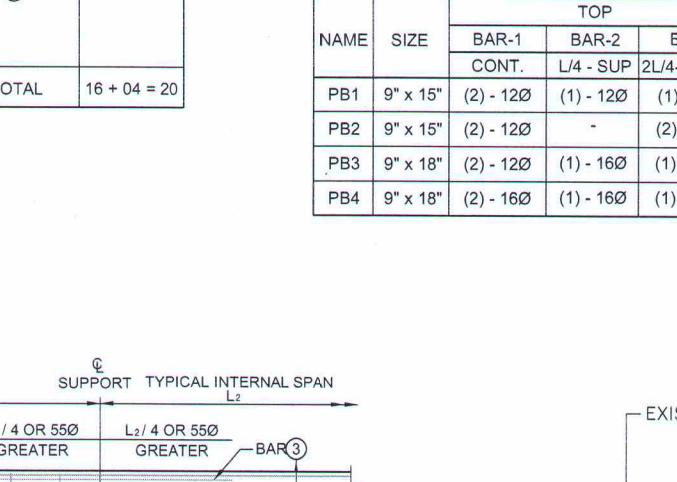
TYPICAL BEAM REINFT. LAYOUT DETAIL



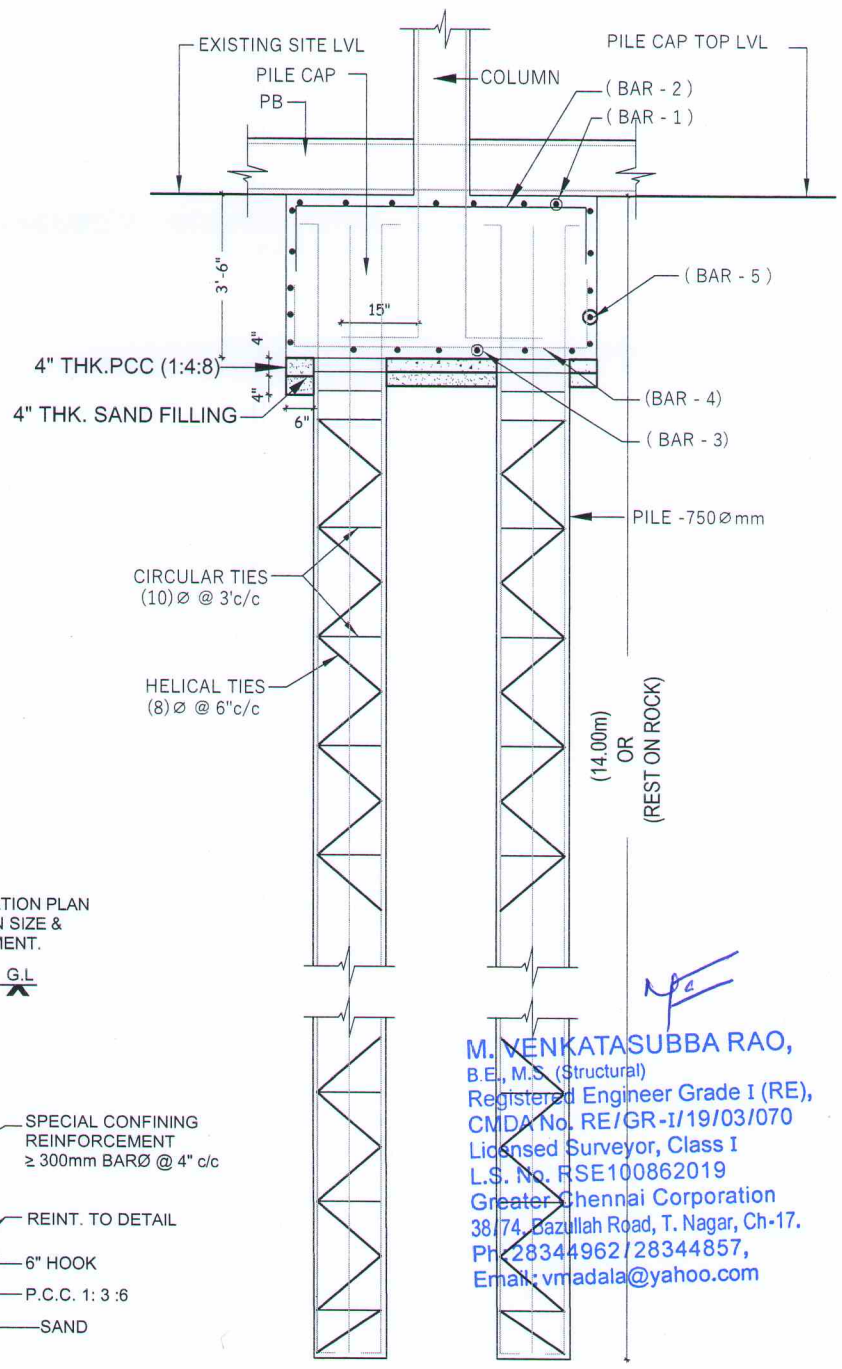
TYPICAL BEAM CROSS SECTION



TYPICAL PLINTH BEAM DETAIL



FOUNDATION DETAIL



PILE & PILE CAP TYPICAL SECTION

NOTES:

1. USE CONCRETE MIX (M30) (360 Kg cement) FOR PILE,PILE CAP&COLUMN.
1.1 USE CONCRETE MIX 1:1:2 (M25) (360 Kg cement) FOR ALL OTHER CONCRETING WORKS.
2. USE SLAG CEMENT FOR PILE CONCRETING.
3. USE PORTLAND POZZOLANA CEMENT FOR ALL OTHER CONCRETING WORKS.
4. USE STEEL GRADE Fe 500.
5. USE VIBRATOR FOR ALL CONCRETING WORKS.
6. USE MIN. LAP LENGTH OF 55Ø FOR ALL RODS.
7. WATER USED FOR CONCRETE SHOULD BE POTABLE (PH-7).
8. REMOVE BENDS IN ALL RODS (EVEN IN 6MM RODS).
9. AVOID LAPPING AT TENSION PORTIONS.
10. THE GAP BETWEEN THE TWO LAYERS OF REINFORCEMENT SHOULD BE MAINTAINED BY PROVIDING SPACER RODS (DISTANCE SHOULD NOT BE MORE THAN DIA. OF BAR OR 1").
11. CONCRETING NOT PERMITTED WITHOUT THE PERMISSION / APPROVAL/SITE INSPECTION FROM/ BY STRUCTURAL ENGINEER.
12. Ø - INDICATES BAR DIAMETER IN mm UNLESS OTHER SPECIFY.
13. COVER FOR FOUNDATION 3" (75 mm)
14. COVER FOR COLUMN 1½" (40 mm)
15. COVER FOR BEAM 1" (25 mm)
16. COVER FOR PILE & PILE CAP 2" (50 mm)

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CMDA No. RE/GR-I/19/03/070
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38/74, Bazullah Road, T. Nagar, Ch-17.
Ph: 28344962/28344857,
Email: vmadala@yahoo.com

ADDRESS	LICENSE				
Plan Showing The proposed Construction of a Stilt floor (parking)+ 3 Floors (Office) Commercial Building at Old Door No:336 to 344, New Door No: 336, Poonamallee High Road, Aminjikarai, Chennai-600029, Comprised in Old S.No. 70/1 part, T.S.No. 2/8, Block No: 23, Ward -1 of Aminjikarai Village within the limits of Greater Chennai Corporation	M.VENKATA SUBBA RAO B.E, M.S(STRUCTURAL) REGISTERED ENGINEER I (RE), CMDA NO.RE/GR-1/19/03/070, LICENSED SURVEYOR,CLASS I, L.S.NO. RSE100862019 GREATER CHENNAI CORPORATION 38/74,BAZULLAH ROAD,T.NAGAR, CH-17. PH:28344962/28344857 EMAIL:vmadala@yahoo.com	DRAWING:	STRUCTURAL DRAWING		
		DESIGN BY:	MANIKANDAN	SCALE:	NTS
		DRAWN BY:	MANIKANDAN	DATE:	28.05.2024
		CHECKED BY:	VENKAT	PROJECT:	2023018
		BUILDING:	COMMERCIAL BUILDING		
		FLOOR:	FOUNDATION REINFORCEMENT DETAILS		

ARCHITECT
Audiseshaiah & Sons

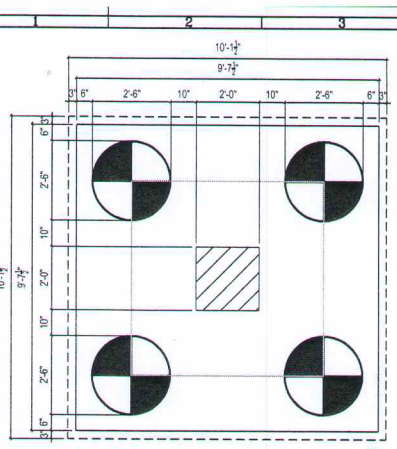
AUDISESHAIAH & SONS
ARCHITECTS, ENGINEERS & PROJECT MANAGEMENT CONSULTANTS
38/74, BAZULLAH ROAD, MASS TOWER, FIRST FLOOR, T. NAGAR, CHENNAI – 600 017.
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Email ID: audisons@gmail.com

DRAWING NO:ST-05
Revision NO:R0

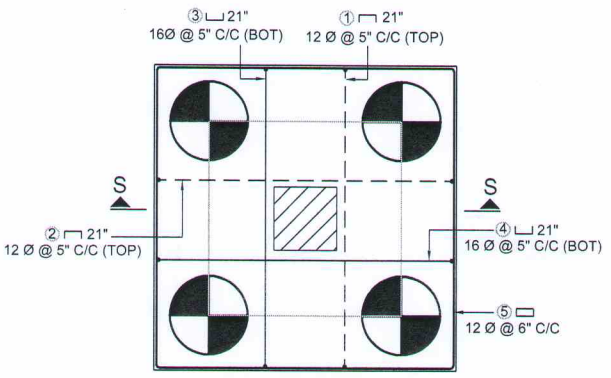
DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS IT'S USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER PRIOR APPROVAL

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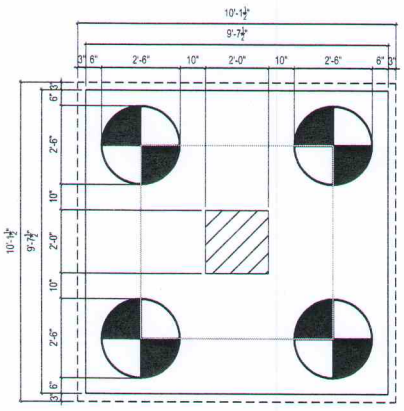
S E W N



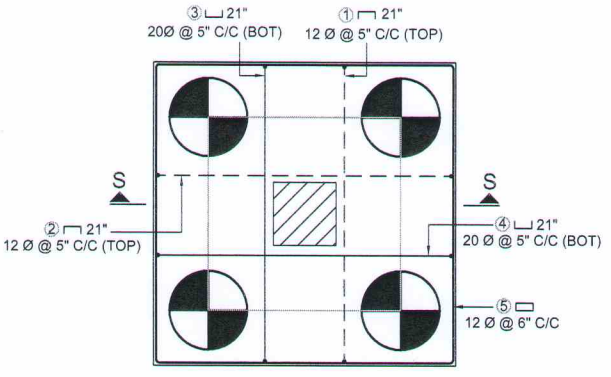
NUM.DETAILS OF PILE CAP (PC1)



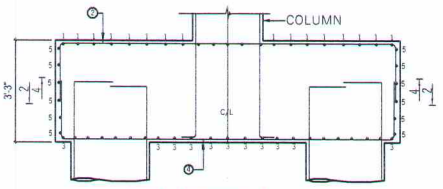
RC DETAILS OF PILE CAP (PC1)



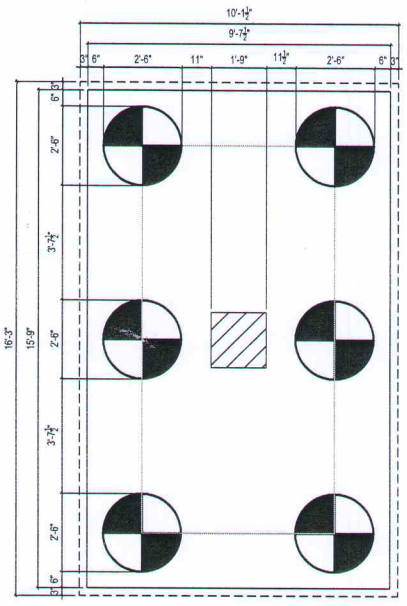
NUM.DETAILS OF PILE CAP (PC1A)



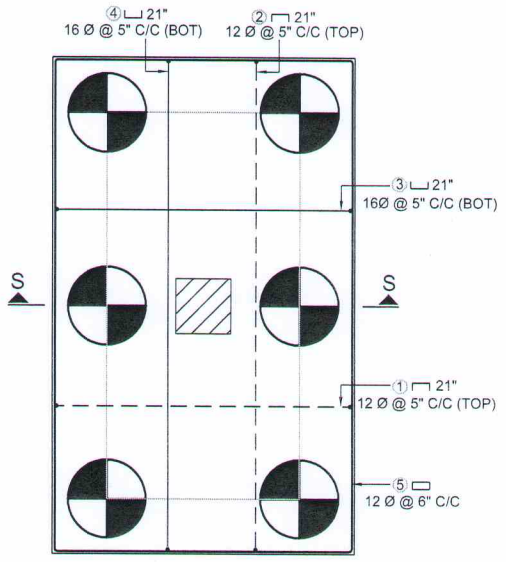
RC DETAILS OF PILE CAP (PC1A)



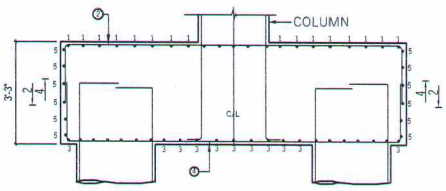
SECTION OF PILE CAP (PC1) & (PC1A)



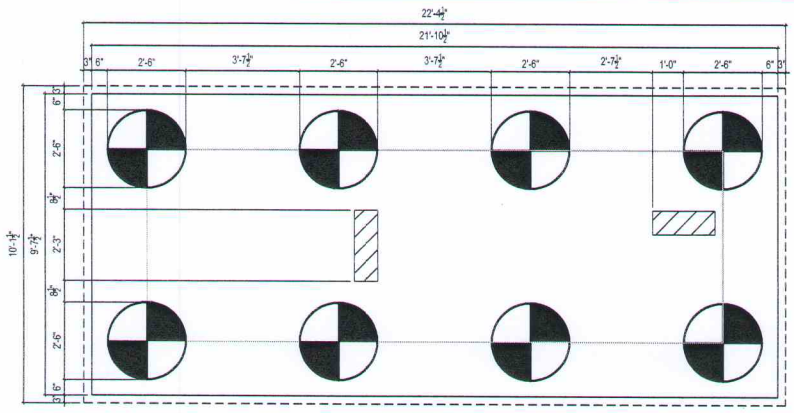
NUM.DETAILS OF PILE CAP (PC2)



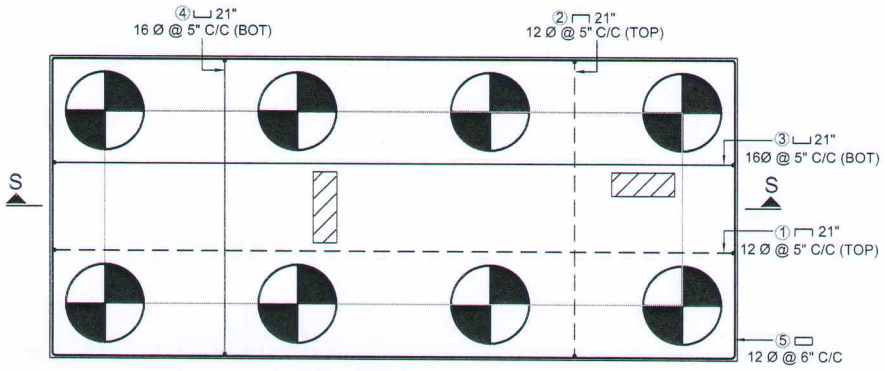
RC DETAILS OF PILE CAP (PC2)



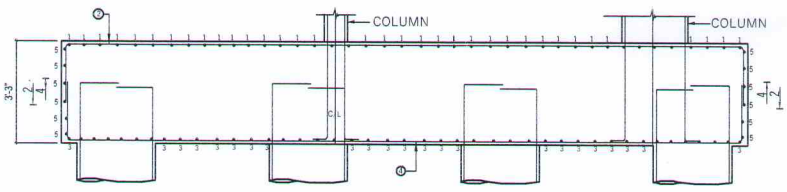
SECTION OF PILE CAP (PC2)



NUM.DETAILS OF PILE CAP (PC3)



RC DETAILS OF PILE CAP (PC3)

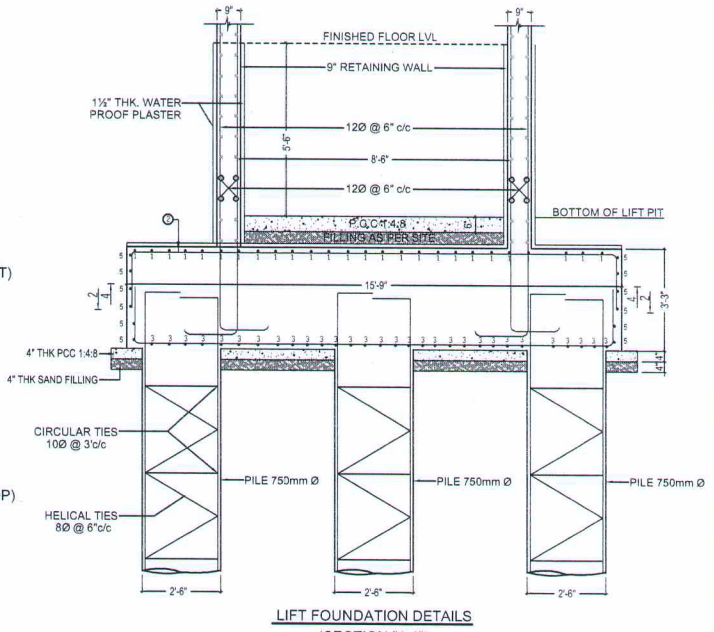


SECTION OF PILE CAP (PC3)

M. VENKATASUBBA RAO,
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NUM.DETAILS OF PILE CAP (PC4)

RC DETAILS OF PILE CAP (PC4)



LIFT FOUNDATION DETAILS
(SECTION "1-1")

ADDRESS	LICENSE				
Plan Showing The proposed Construction of a Stilt floor (parking)+ 3 Floors (Office) Commercial Building at Old Door No:336 to 344, New Door No: 336, Poonamallee High Road, Aminjikarai, Chennai-600029, Comprised in Old S.No. 70/1 part, T.S.No. 2/8, Block No: 23, Ward -1 of Aminjikarai Village within the limits of Greater Chennai Corporation	M.VENKATA SUBBA RAO B.E, M.S(STRUCTURAL) REGISTERED ENGINEER I (RE), CMDA NO.RE/GR-1/19/03/070, LICENSED SURVEYOR,CLASS I, L.S.NO. RSE100862019 GREATER CHENNAI CORPORATION 38/74,BAZULLAH ROAD,T.NAGAR, CH-17. PH:28344962/28344857 EMAIL:vmadala@yahoo.com	DRAWING:	STRUCTURAL DRAWING		
		DESIGN BY:	MANIKANDAN	SCALE:	NTS
		DRAWN BY:	MANIKANDAN	DATE:	28.05.2024
		CHECKED BY:	VENKAT	PROJECT:	2023018
		BUILDING:	COMMERCIAL BUILDING		
		FLOOR:	PILE & PILE CAP SECTION DRAWING		

ARCHITECT
Audiseshaiah & Sons

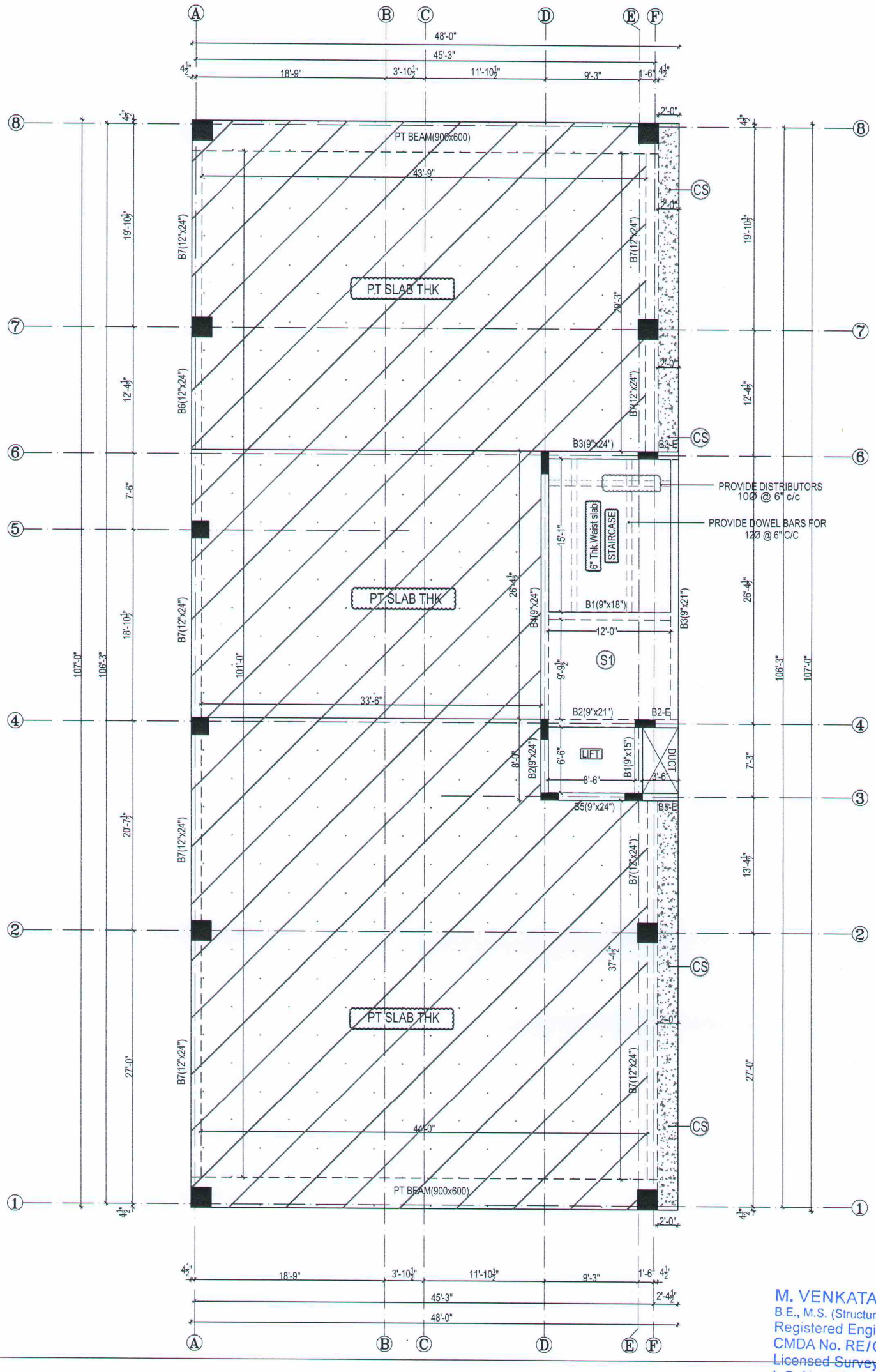
AUDISESHAIAH & SONS
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TEL: + 91 44 28344962/857
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DRAWING NO:ST-06
Revision NO:R0

DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS IT'S USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER PRIOR APPROVAL

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S E W N



M. VENKATASUBBA RAO,
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LEGEND:-

B? - E - BEAM TOP & BOTTOM BARS SHOULD BE EXTENDED

B? - E(T) - BEAM TOP BARS SHOULD BE EXTENDED

STILTS,I,II&III TYPICAL FLOOR ROOF DETAILS (M30)

NAME	SIZE	TOP			BOTTOM		STIRRUPS	
		BAR-1	BAR-2	BAR-3	BAR-4	BAR-5	BAR-6	BAR-7
		CONT.	L/4 - SUP	2L/4-MIDSUP	CONT.	3L/4-MID	L/4 - SUP	L/2-MID SUP
B1	9" x 15" 9" x 18"	(2) - 16Ø	-	-	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B2	9" x 21" 9" x 24"	(2) - 16Ø	-	(2) - 16Ø	(2) - 16Ø	-	8Ø @ 6" c/c	8Ø @ 8" c/c
B3	9" x 21" 9" x 24"	(2) - 20Ø	(1) - 16Ø	-	(2) - 20Ø	(1) - 16Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
B4	9" x 21" 9" x 24"	(2) - 20Ø	(2) - 25Ø	(2) - 25Ø	(2) - 25Ø	(1) - 20Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
B5	9" x 24"	(2) - 20Ø	(2) - 20Ø	(2) - 20Ø	(2) - 20Ø	(1) - 20Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
B6	12" x 24"	(2) - 25Ø	-	(2) - 25Ø	(2) - 25Ø	(1) - 25Ø	8Ø @ 6" c/c	8Ø @ 8" c/c
B7	12" x 24"	(2) - 25Ø	(2) - 20Ø	(2) - 20Ø	(2) - 25Ø	(1) - 25Ø	10Ø @ 6" c/c	8Ø @ 8" c/c

(CS) - CANTILEVER SLAB

STILTS,I,II&III TYPICAL FLOOR ROOF SLAB DETAILS (M30)

SLAB ID.	THICKNESS (INCHES)	REINFORCEMENT		TYPE OF SLAB
		SHORT SPAN	LONG SPAN	
S1	6"	8Ø @6"c/c	8Ø @6"c/c	TWO WAY

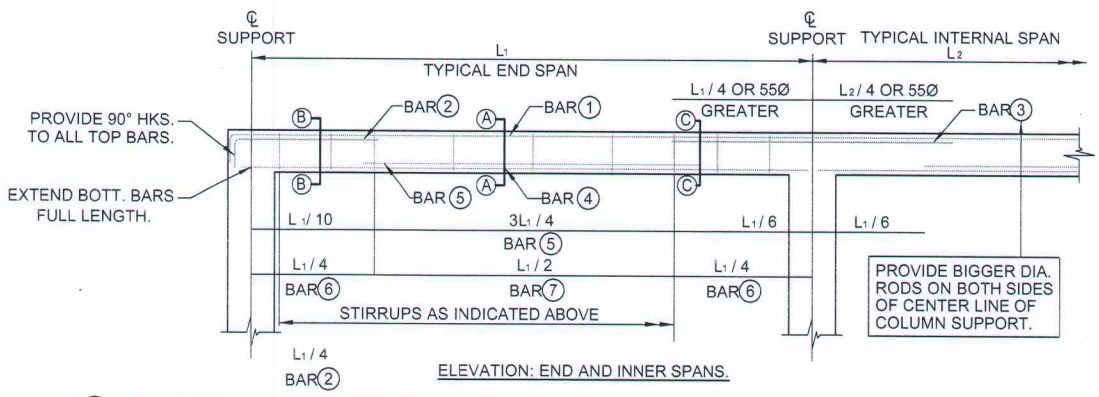
ADDRESS	LICENSE			ARCHITECT	
Plan Showing The proposed Construction of a Stilt floor (parking)+ 3 Floors (Office) Commercial Building at Old Door No:336 to 344, New Door No: 336, Poonamallee High Road, Aminjikarai, Chennai-600029, Comprised in Old S.No. 70/1 part, T.S.No. 2/8, Block No: 23, Ward -1 of Aminjikarai Village within the limits of Greater Chennai Corporation	M.VENKATA SUBBA RAO B.E, M.S(STRUCTURAL) REGISTERED ENGINEER I (RE), CMDA NO.RE/GR-1/19/03/070, LICENSED SURVEYOR,CLASS I, L.S.NO. RSE100862019 GREATER CHENNAI CORPORATION 38/74,BAZULLAH ROAD,T.NAGAR, CH-17. PH:28344962/28344857 EMAIL:vmadala@yahoo.com			Audiseshaiah & Sons	AUDISESHAIAH & SONS ARCHITECTS, ENGINEERS & PROJECT MANAGEMENT CONSULTANTS 38/74, BAZULLAH ROAD, MASS TOWER, FIRST FLOOR, T. NAGAR, CHENNAI - 600 017. TEL: + 91 44 28344962/857 Email ID: audisons@gmail.com

DRAWING:	STRUCTURAL DRAWING			DRAWING NO:ST-07	
DESIGN BY:	MANIKANDAN	SCALE:	NTS	Revision NO:R0	
DRAWN BY:	MANIKANDAN	DATE:	28.05.2024		
CHECKED BY:	VENKAT	PROJECT:	2023018		
BUILDING:	COMMERCIAL BUILDING				
FLOOR:	STILT+3 FLOOR ROOF DRAWING				

DRAWING SOLE PROPERTY OF AUDISESHAIAH & SONS IT'S USE FOR ANY PURPOSE OTHER THAN THAT MENTIONED IS TO BE DONE ONLY AFTER PRIOR APPROVAL

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S E W N



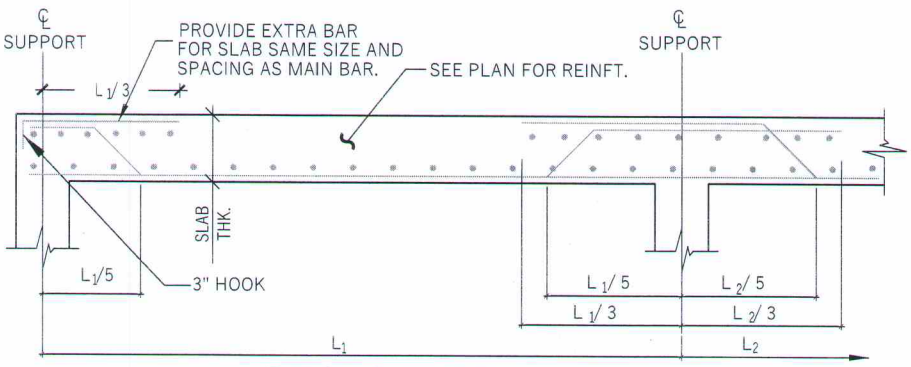
ELEVATION: END AND INNER SPANS.

BAR (?) - SEE BEAM SCHEDULE FOR BAR SIZES

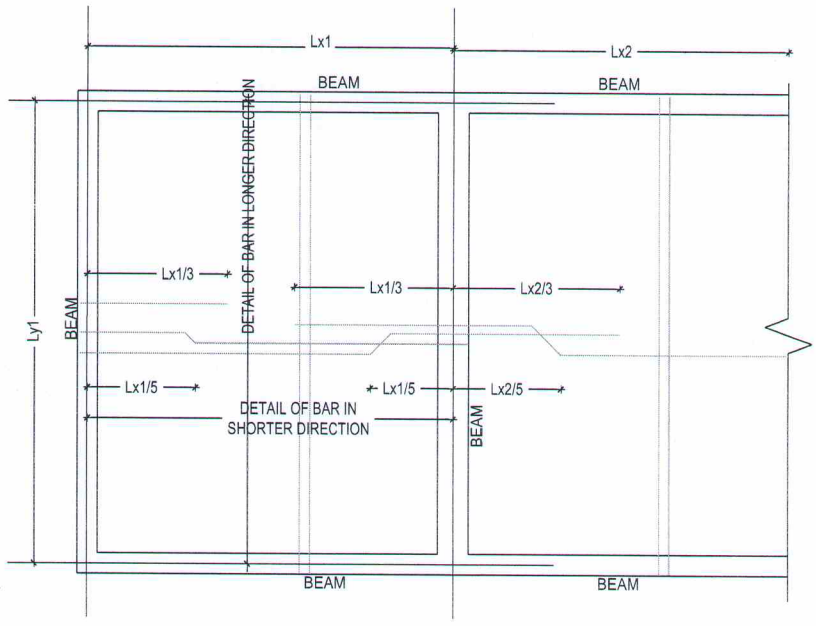
REFER TO PLANS FOR REQUIRED REINFORCEMENT.

REINF. COVER TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

TYPICAL BEAM REINFT. LAYOUT DETAIL



TYPICAL SLAB DETAIL



TYPICAL ONE WAY SLAB REINFORCEMENT DETAILS

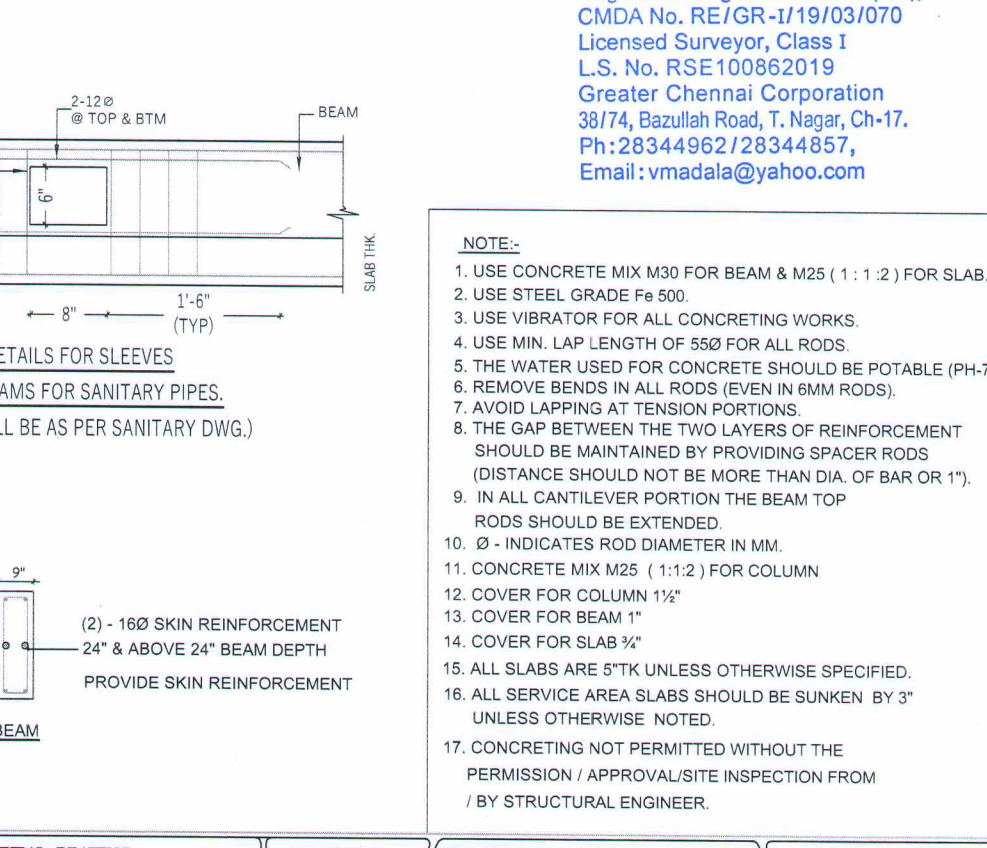
LINTEL NOTES

(8" MIN. BEARING EACH END.)

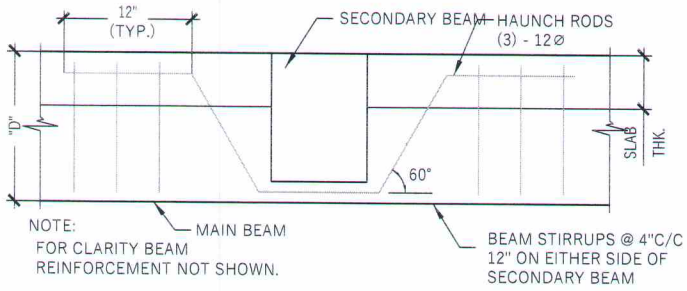
WHERE LINTELS ARE INDICATED ON THE ARCHITECTURAL PLANS THEY SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, UNLESS NOTED OTHERWISE.

1. CONCRETE BLOCK LINTEL SCHEDULE:

LINTEL SCHEDULE				
OPENING WIDTH	BEAM SIZE	REINFORCEMENT		STIRRUP SIZE
		TOP	BOTTOM	
UP TO 6'-0"	9" x 6" 4½" x 6"	(2) - 8Ø	(2) - 10Ø	8Ø @6" c/c
6'-0" TO 8'-0"	9" x 6"	(3) - 8Ø	(3) - 10Ø	8Ø @6" c/c
8'-0" TO 12'-0"	9" x 9"	(2) - 10Ø	(2) - 10Ø + (1) -12Ø	8Ø @6" c/c



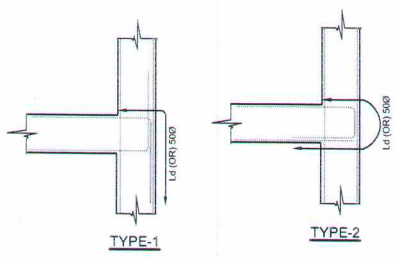
TYPICAL TWO WAY SLAB REINFORCEMENT DETAILS



HAUNCH DETAIL AT BEAM INTERSECTIONS

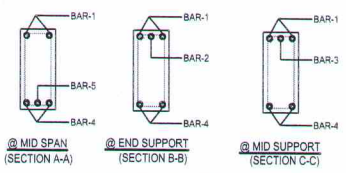
TYP. DETAILS FOR SLEEVES IN FLOOR BEAMS FOR SANITARY PIPES.

(LOCATION SHALL BE AS PER SANITARY DWG.)



TYPE-1 TYPE-2

TYPICAL DETAIL - DEVELOPMENT LENGTH



@ MID SPAN (SECTION A-A) @ END SUPPORT (SECTION B-B) @ MID SUPPORT (SECTION C-C)

TYPICAL BEAM CROSS SECTION

BEAM

NOTE:-

1. USE CONCRETE MIX M30 FOR BEAM & M25 (1 : 1 :2) FOR SLAB.
2. USE STEEL GRADE Fe 500.
3. USE VIBRATOR FOR ALL CONCRETING WORKS.
4. USE MIN. LAP LENGTH OF 55Ø FOR ALL RODS.
5. THE WATER USED FOR CONCRETE SHOULD BE POTABLE (PH-7).
6. REMOVE BENDS IN ALL RODS (EVEN IN 6MM RODS).
7. AVOID LAPPING AT TENSION PORTIONS.
8. THE GAP BETWEEN THE TWO LAYERS OF REINFORCEMENT SHOULD BE MAINTAINED BY PROVIDING SPACER RODS (DISTANCE SHOULD NOT BE MORE THAN DIA. OF BAR OR 1").
9. IN ALL CANTILEVER PORTION THE BEAM TOP RODS SHOULD BE EXTENDED.
10. Ø - INDICATES ROD DIAMETER IN MM.
11. CONCRETE MIX M25 (1:1:2) FOR COLUMN
12. COVER FOR COLUMN 1½"
13. COVER FOR BEAM 1"
14. COVER FOR SLAB ¾"
15. ALL SLABS ARE 5"TK UNLESS OTHERWISE SPECIFIED.
16. ALL SERVICE AREA SLABS SHOULD BE SUNKEN BY 3" UNLESS OTHERWISE NOTED.
17. CONCRETING NOT PERMITTED WITHOUT THE PERMISSION / APPROVAL/SITE INSPECTION FROM / BY STRUCTURAL ENGINEER.

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ADDRESS	LICENSE				
Plan Showing The proposed Construction of a Stilt floor (parking)+ 3 Floors (Office) Commercial Building at Old Door No:336 to 344, New Door No: 336, Poonamallee High Road, Aminjikarai, Chennai-600029, Comprised in Old S.No. 70/1 part, T.S.No. 2/8, Block No: 23, Ward -1 of Aminjikarai Village within the limits of Greater Chennai Corporation	M.VENKATA SUBBA RAO B.E, M.S(STRUCTURAL) REGISTERED ENGINEER I (RE), CMDA NO.RE/GR-1/19/03/070, LICENSED SURVEYOR,CLASS I, L.S.NO. RSE100862019 GREATER CHENNAI CORPORATION 38/74,BAZULLAH ROAD,T.NAGAR, CH-17. PH:28344962/28344857 EMAIL:vmadala@yahoo.com	DRAWING:	STRUCTURAL DRAWING		
		DESIGN BY:	MANIKANDAN	SCALE:	NTS
		DRAWN BY:	MANIKANDAN	DATE:	28.05.2024
		CHECKED BY:	VENKAT	PROJECT:	2023018
		BUILDING:	COMMERCIAL BUILDING		
		FLOOR:	ROOF TYPICAL DETAILS		

ARCHITECT

Audiseshaiah & Sons

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DRAWING NO:ST-08

Revision NO:R0

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