

FORM 4B

STRUCTURAL STABILITY CERTIFICATE BY REGISTERED STRUCTURAL ENGINEER

(To be furnished on Completion of Building)

Date: 30.09.2025

I S.Arun Kumar M.E. (Structural) have undertaken assignment as Structural Engineer for the the detailed design and construction of the building/block/Tower no:1 of the Building comprising Stilt+4 floors (consist of 24 Residential dwelling units of Stilt + 4 floors) situated in the land bearing survey Numbers S.F.NO: 463/3A1A16B, Sri Vignesh Nagar, Palangarai Village & Panchayat, Avinashi Taluk, Tiruppur District within the municipal coporation measuring 892 Sq.m (As per approved)- Block-1 RB - FSI area of 2265.76 Sq.m. alone has been done by me/us based on the report of geotechnical investigation (soil test) done by M/s. Vijay Builders for Material Testing Report No. VB/SIR/2023/SEP/002 Dated 20.09.2023

It is certified that the building has been designed as a RCC structure to withstand the dead load, impose Load and wind load/ earthquake loads ensuring structural safety and serviceability as per the norms and guidelines prescribed in applicable relevant standards and codes of Bureau of Indian Standards.

Further after the details inspection of the building, it is certified that the constructed building is `structurally safe and sound for the purpose for which it is constructed.

Yours Faithfully



Signature, Name and seal

of the Registered Structural Engineer

S. ARUN KUMAR, ME., (Struct.)
Coimbatore LPA/SE/GR-1/066/2024

METIS STRUCTURES

9,9-1,Lakshmi Garden, Sankara Collage Road,
Saravanampatti, Coimbatore - 35.
GSTIN : 33AAXFM9597P1ZT



GOVT. OF TAMILNADU

DIRECTORATE OF TOWN & COUNTRY PLANNING

DISTRICT TOWN & COUNTRY PLANNING OFFICE, COIMBATORE

Ground & first floor ,Door no -50, FCI Road,

Gandhimaa nagar ,Coimbatore-641004.

Phone : 0422-2380243 ,E- Mail : Kovaidisttcp@gmail.com

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the Thiru. S.ARUN KUMAR has enrolled as **Structural Engineer Grade -I(SE)** with District Town and country Planning, Coimbatore who has the qualification of **M.E(Structural Engineering)** and experience in the relevant field for 10 years.

He has been given the Registration No. Coimbatore LPA/SE/GR-I/066/2024 on 01.08.2024. He shall be required to comply with the duties and responsibilities prescribed by the government of tamilnadu in part V, "Registration of Professionals " ,Tamil Nadu Combined Development and Building Rules ,2019 approved vide G.O (Ms) No .18 MAWS (MA1) Dept.Dated .04.02.2029

This Registration Certificate is valid upto 31.07.2029




JOINT DIRECTOR (I/C)

DISTRICT TOWN AND COUNTRY PLANNING,

COIMBATORE


S. ARUN KUMAR, ME., (Struct.)
Coimbatore LPA/SE/GR-I/066/2024
METIS STRUCTURES
9,9-1,Lakshmi Garden, Sankara Collage Road,
Saravanampatti, Coimbatore - 35.
GSTIN : 33AAXFM9597P1ZT

General Notes :-

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
3. USE $\frac{1}{4}$ " GRADE CONCRETE & #400 STEEL.
4. USE CLEAR COVER :
 - 40MM FOR COLUMN.
 - 25MM FOR BEAM.
 - FOR FOOTING 75MM-SIDE FACE/50MM-BOTTOM.
5. THIS BUILDING IS DESIGNED FOR SLT-14 FLOORS ONLY.
6. SFC OF SOIL CONSIDERED - 200MM/m² @ 1.50m from N.E.L.
7. DEVELOPMENT/LAP LENGTH FOR BARS IN TENSION = 57 DIA.
8. THIS DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL DRAWINGS.
9. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
10. THE CUSTOMER IS RESPONSIBLE FOR ACCURATE LOCATIONS OF BUILDING LINES AND BENCH MARKS AT THE BUILDING SITE.

S. ARUN KUMAR, M.E. (Struct.)
Coimbatore LPA/SE/GR-1066/2024
METIS STRUCTURES
99-1 Lakshmi Garden, Sankara College Road,
Saravanampalli, Coimbatore - 35,
GSTIN : 33AAXFN6597P1ZT

COLUMN & FOOTING LAYOUT REVISED FOR BRICK WALL LOADING 13.01.24		PRAVEEN M
REV	DESCRIPTION	DATE
1	FOR DECISION	
2	FOR APPROVAL	
3	FOR CONSTRUCTION	

CHECKED BY :
Mr. Manivaran,

PROJECT TITLE :
Mr. Manivaran Apartment-19&20.

ARCHITECT NAME :
M/s. Inner Space.

DRAWING TITLE :
Footing Layout.

STRUCTURAL CONSULTANTS

S. ARUN KUMAR, M.E. (Struct.)

99-1 Lakshmi Garden,
Sankara College Road,
Saravanampalli,
Coimbatore-641 035.
Mobile : 979 00 0296.

DRAWING NO

MS/7892/PD/1

R1

DESIGN BY : HARSHANAP

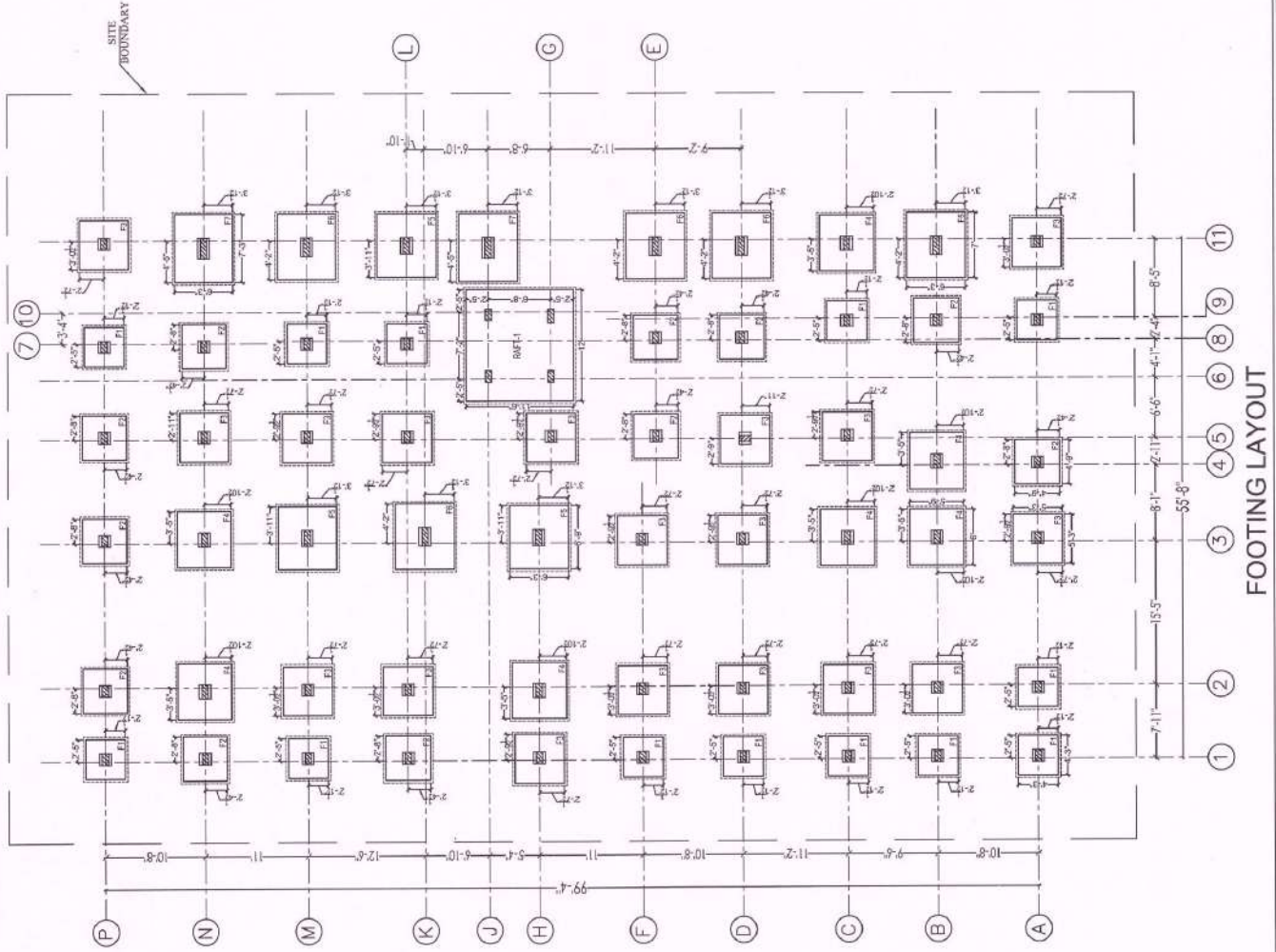
APPROVED BY : S. ARUN KUMAR

DATE : 08.01.2024

CHECK BY : VISVNU VARDHAN A

SH. SIZE : A3

SCALE : NTS



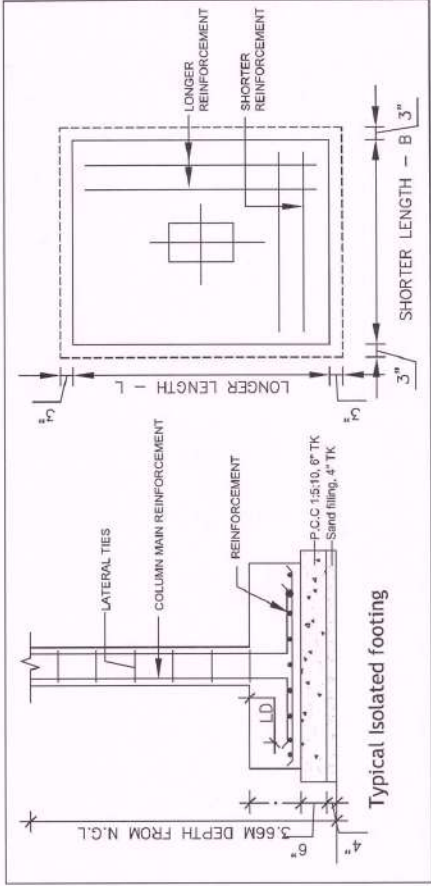
FOOTING LAYOUT

FOOTING SCHEDULE :

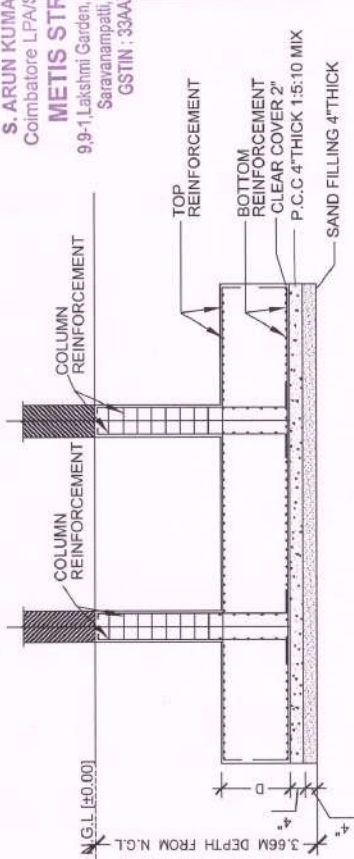
TYPE	L	B	D	BOTTOM REINFORCEMENT		COLUMN SIZE	NO OF FOOTINGS
				SHORT	LONG		
F1	4'3"	4'3"	1'6"	Y10@5"C/C	Y10@5"C/C	1'3"x1'3"	13
F2	4'9"	4'9"	1'6"	Y10@5"C/C	Y10@5"C/C	1'3"x1'3"	11
F3	5'3"	5'3"	1'6"	Y10@5"C/C	Y10@5"C/C	1'3"x1'3"	18
F4	6'0"	5'9"	1'9"	Y12@6"C/C	Y12@6"C/C	1'6"x1'3"	07
F5	6'9"	6'3"	1'9"	Y12@6"C/C	Y12@6"C/C	1'9"x1'3"	03
F6	7'0"	6'3"	1'9"	Y12@6"C/C	Y12@6"C/C	2'0"x1'3"	05
F7	7'3"	6'3"	1'9"	Y12@6"C/C	Y12@6"C/C	2'3"x1'3"	02
TOTAL							59

RAFT FOOTING SCHEDULE :

TYPE	L	B	D	BOTTOM/TOP REINFORCEMENT		NO.OF COLUMNS	NO.OF FOOTINGS
				SHORT	LONG		
RAFT-1	12'0"	11'6"	1'9"	Y10@5"C/C	Y10@5"C/C	04	01
TOTAL							01



Typical Isolated footing



RAFT /COMBINED FOOTING TYPICAL LAYOUT

S. ARUN KUMAR, ME., (Struct.)
Coimbatore LPA/SE/GR-1/066/2024
METIS STRUCTURES
9.9-1 Lakshmi Garden, Sarkara Collage Road,
Saravanampatti, Coimbatore - 35.
GSTIN : 33AAFTM9597P1ZT

General Notes :-

- ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
- DO NOT SCALE THE DRAWINGS, FOLLOW DIMENSION ONLY.
- USE M20 GRADE CONCRETE & F4500 STEEL.
- USE CLEAR COVER :
 - 40MM FOR COLUMN.
 - 25MM FOR BEAM.
 - FOR FOOTING/RAFT-SIDE FACE(COLUMN-BOTTOM).
- THIS BUILDING IS DESIGNED FOR STILL+4 FLOORS ONLY.
- SBC OF SOIL CONSIDERED -2800N/m² @ 3.66m from N.G.L.
- DEVELOPMENT/LAP LENGTH FOR BARS IN TENSION = 57 DIA.
- THIS DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL DRAWINGS.

CASE: Mr.Manivannan,

SUBJECT: Mr.Manivannan Apartments-1&2

ARCHITECT NAME: Mr.Jeeva Space

DRAWING TITLE: Footing Reinforcement Detail.

STRUCTURAL CONSULTANT



DESIGN BY : HARIHARAN,P

DRAWN BY : GUNAL,M

CHECK BY : VISHNU VARDANA,A

S. ARUN KUMAR, M.E.,(Struct.)
9.9-1 Lakshmi Garden,
Sarkara Collage Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

APPRO BY : S. ARUN KUMAR

DATE : 08.01.2024

SH-SIZE : A3

SCALE NTS

DRAWING NO

M5/2922/186/01A

R1

General Notes :-

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
3. USE $\square$ GRADE CONCRETE & $\square$ 4000 STEEL.
4. USE CLEAR COVER :
 * 40MM FOR COLUMN,
 * 25MM FOR BEAMS,
 * FOR FOOTING/20MM--SEE F.A.C.A./S.O.M.--NOTING.
5. THIS BUILDING IS DESIGNED FOR SLT/14 FLOORS ONLY.
6. SBC OF SOIL CONSIDERED $\sim 2500 \text{ kN/m}^2$ @ 3.00m FROM N.O.L.
7. DEVELOPMENT/LAP LENGTH FOR BARS IN TENSION = 57 DIA.
8. THIS DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL DRAWINGS.
9. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
10. THE CUSTOMER IS RESPONSIBLE FOR ACCURATE LOCATION OF BUILDING LINES AND BENCH MARKS AT THE BUILDING SITE.

S. ARUN KUMAR, M.E., (Struct.)
 Coimbatore LPA/SE/GR-1/066/2024
METIS STRUCTURES
 9,9-1, Lakshmi Garden, Sankara Collage Road,
 Saravanampatti, Coimbatore - 35.
 GSTIN : 33AAXFM9597P1ZT

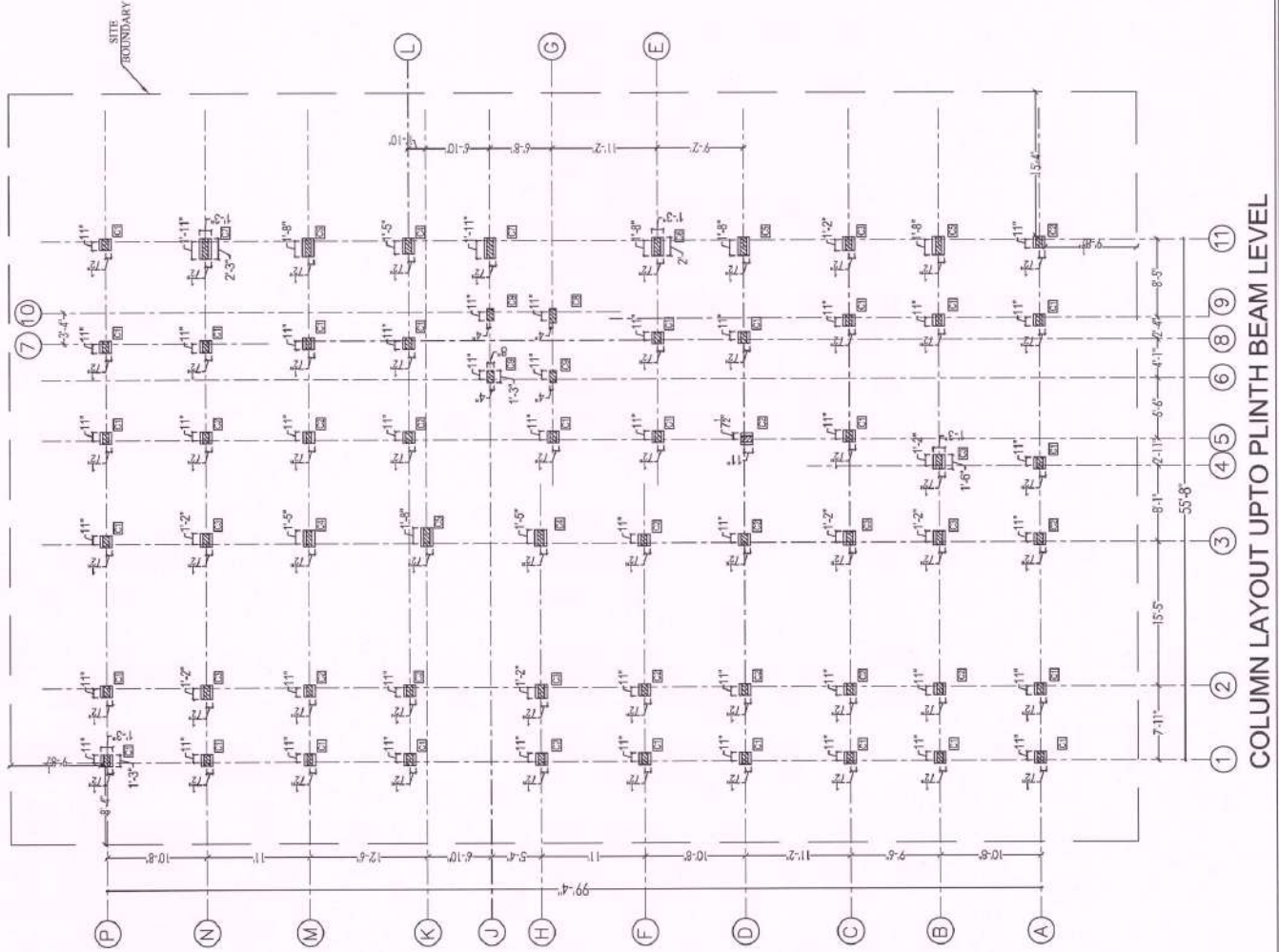
REV	DESCRIPTION	DATE	BY
1	COLUMN & FOOTING LAYOUT REVISED FOR BRICK WALL LOADING	13.01.24	PRAVEEN M
	FOR DISCUSSION		
	FOR APPROVAL		
	FOR CONSTRUCTION		
	DATE		
	DESIGNED BY : Mr. Manikumar,		

PROJECT TITLE :
 Mr. Manikumar Apartment-19420,

ARCHITECT NAME :
 M/s. Inner Space,

DRAWING TITLE :
 Column Layout Up to Plinth Beam Level,

STRUCTURAL CONSULTANTS	DRAWING NO
S. ARUN KUMAR, M.E. (Struct.) 9,9-1, Lakshmi Garden, Sankara Collage Road, Saravanampatti, Coimbatore-641 035. Mobile : 979 000 6296.	MS/2022/02/2
DESIGN BY : HARISHANKAR P	APPROVED BY : S. ARUN KUMAR
DRAWN BY : PRAVEEN KANNAN M	DATE : 08.01.2024
CHECK BY : VISHNU VARDHANA	SH. SIZE : A3
	SCALE : HTS



General Notes :-

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
3. USE $\frac{1}{4}$ " GRADE CONCRETE & F-600 STEEL.
4. USE CLEAR COVER :
 - * 40MM FOR COLUMN.
 - * 25MM FOR BEAMS.
 - * FOR FOOTING/25MM-SIDE FACE/30MM-BOTTOM.
5. THIS BUILDING IS DESIGNED FOR STILT+4 FLOORS ONLY.
6. SBC OF SOIL CONSIDERED = 2500K/MT @ 3.00m FROM N.G.L.
7. DEVELOPMENT/DEVELOPMENT LENGTH FOR BARS IN TENSION = 57 DIA.
8. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL DRAWINGS.
9. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
10. THE CUSTOMER IS RESPONSIBLE FOR ACCURATE LOCATIONS OF BUILDING LINES AND BENCH MARKS AT THE BUILDING SITE.

S. ARUN KUMAR, M.E., (Struct.)
Coimbatore LPA/SE/IGR-1066/2024
METIS STRUCTURES
99-1, Lakshmi Garden, Sakara Collage Road,
Saravanampatti, Coimbatore - 35.
GSTIN : 33AAXFM597P1ZT

REV	DESCRIPTION	DATE	BY
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FOR DISCUSSION
FOR APPROVAL
FOR CONSTRUCTION

✓

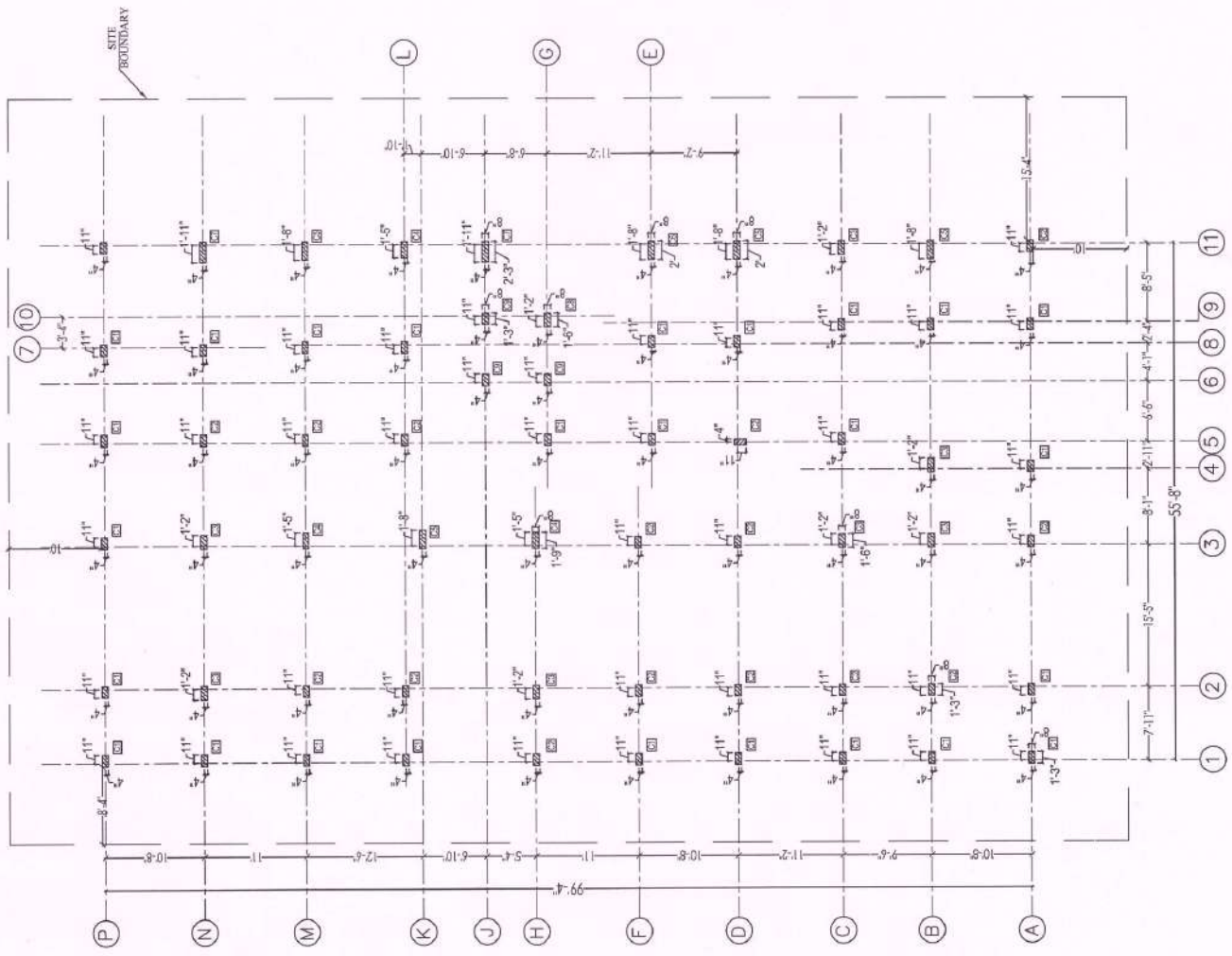
DATE: _____
BY: _____
Mr. Arun Kumar,

PROJECT TITLE:
Mr. Marimuthan Appuram 194/20.

ARCHITECT NAME:
M/s. Inner Space,

DRAWING TITLE:
Column Layout From Plinth Beam Level,

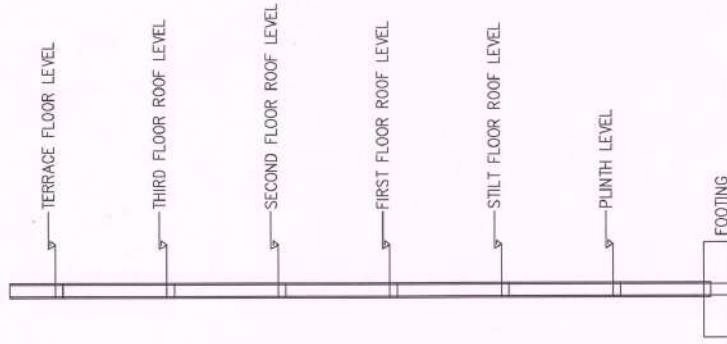
STRUCTURAL CONSULTANTS	DRAWING NO
S. ARUN KUMAR, M.E. (Struct) 99-1, Lakshmi Garden, Sakara Collage Road, Saravanampatti, Coimbatore-641 035. Mobile : 979 000 6296.	M/2023/CO/2A
DESIGN BY : S. ARUN KUMAR	APPROVED BY : S. ARUN KUMAR
DRAWN BY : PRAVEENKANNAN	DATE : 08.07.2024
CHECK BY : VISHNU VARDHANA	SH. SIZE : A3
	SCALE : HTS



COLUMN LAYOUT FROM PLINTH BEAM TO TERRACE FLOOR LEVEL

COLUMN REINFORCEMENT DETAIL:

TIES PATTERN	UPTO PLINTH BEAM LEVEL	TIES PATTERN	FROM PLINTH BEAM TO TERRACE FLOOR LEVEL	NO. OF COLUMN
				27
				15
				07
				03
				04
				01
				02
				01
				03
TOTAL				63



TYPICAL C/S OF A COLUMN

NOTES: -

- - LARGER DIA ROD
- - SMALLER DIA ROD (1)
- ⊕ - SMALLER DIA ROD (2)

General Notes :-

- ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
- DO NOT SCALE THE DRAWINGS. FOLLOW PAPERED DIMENSION ONLY.
- USE M25 GRADE CONCRETE & F400 STEEL.
- USE CLEAR COVER :-
 - 40MM FOR COLUMN.
 - 25MM FOR BEAMS.
- FOR FOOTING (200x750mm) SIDE FACE (200mm-BOTTOM).
- THIS BUILDING IS DESIGNED FOR STILT+4 FLOORS ONLY.
- SEC OF SOIL CONSIDERED - 2500kN/m² @ 3.6m from N.G.L.
- DEVELOPMENT/LAP LENGTH FOR BARS IN TENSION = 37 DIA.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT RESTRUCTURAL DRAWINGS.
- THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
- THE CUSTOMER IS RESPONSIBLE FOR ACCURATE LOCATIONS OF BUILDING LINES AND BENCH MARKS AT THE BUILDING SITE.

[Signature]

S. ARUN KUMAR, ME., (Struct.)
 Coimbatore LPA/SE/GR-I/066/2024
METIS STRUCTURES
 9,9-1, Lakshmi Garden, Sankara Collage Road,
 Saravanampatti, Coimbatore - 35,
 GSTIN : 33AAXFM9597P1Z1

REV	DESCRIPTION	DATE	BY
1	COLUMN & FOOTING LAYOUT REVISED FOR BRICK WALL LOADING	13.01.24	PRAVEN.M
FOR DISSEEN			
FOR APPROVAL	✓		
FOR CONSTRUCTION			
SCALE	As per drawing		
PROJECT TITLE	Mr. Manivannan Apartments-19&20.		
ARCHITECT NAME	Mr. Inner Space.		
DRAWING TITLE	Column Reinforcement Detail.		
STRUCTURAL CONSULTANTS	S. ARUN KUMAR, M.E., (Struct.) 9,9-1, Lakshmi Garden, Sankara Collage Road, Saravanampatti, Coimbatore-641 035, Mobile : 979 000 6296.	DRAWING NO	45/2022/CO/0248
DESIGN BY :	HARIHARAN.P	APPROVED BY :	S. ARUN KUMAR
DRAWN BY :	PRAVENKANNAN.M	DATE :	08.01.2024
CHECK BY :	YESHU VARMA.A	SHEET SIZE :	A3
		SCALE :	NTS



Avinashi, Tamil Nadu, India 🇮🇳

57pj+gm6, Kaikattipudhur, Avinashi, Tamil Nadu 641654, India

Lat 11.186043° Long 77.281673°

25/09/2025 03:47 PM GMT +05:30