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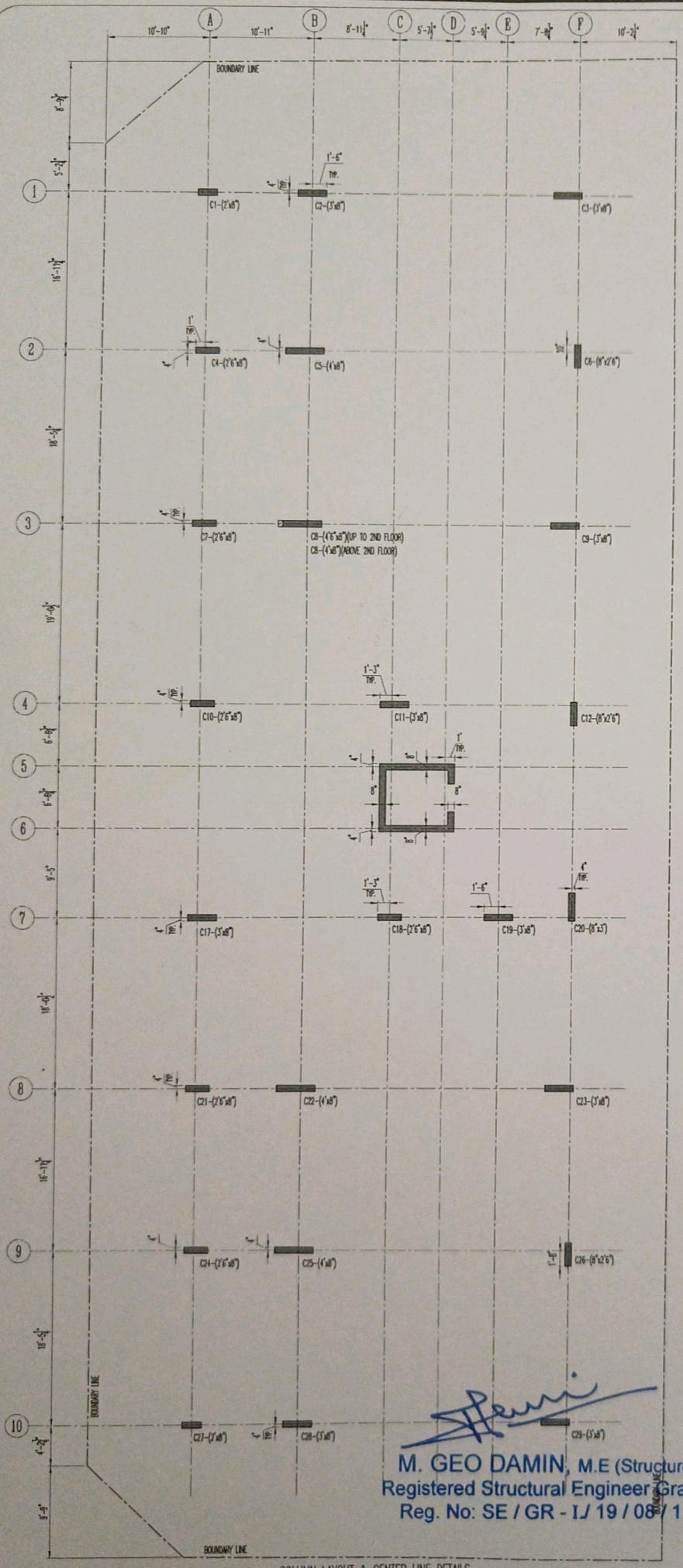
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

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+91 9996 12 9996

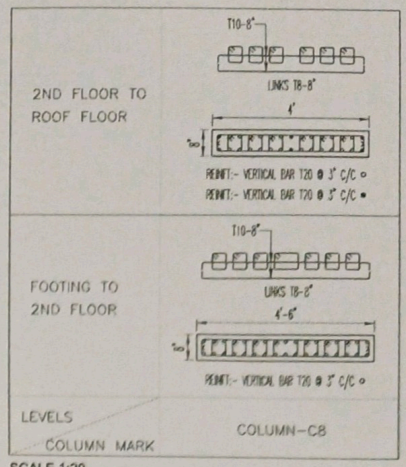
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COLUMN LAYOUT & CENTER LINE DETAILS



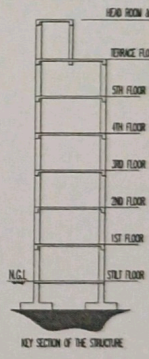
SCALE 1:20

NOTES

1. ALL DIMENSIONS ARE IN FEET & INCHES
2. DO NOT SCALE ANY DIMENSION, ALWAYS FOLLOW WRITTEN DIMENSIONS.
3. ALL R/F SHALL BE SIDR/mm CONFORMING TO IS 1786 (LATEST REVISION)
4. ALL CUTOUT LOCATION AND SIZE SHALL BE CONFIRMED WITH RELEVANT ARCHITECTURAL AND SERVICES DRAWINGS.
5. BEAM LAYOUT (U.N.O.) SHALL BE AS PER MASONARY WALL LAYOUT SHOWN IN ARCHITECTURAL DRAWINGS.
6. ALL COLUMN FRAMING,RAMP AND STAIR CASE SHALL BE DIRECTED IN CONSIDERATION WITH RELEVANT ARCHITECTURAL AND STRUCTURAL DRAWING OF RAMP/STAIR CASE.
7. DEVELOPMENT LENGTH AND LAP LENGTH SHOULD BE 40ø OF BAR
8. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS
   - FOOTING - 50MM
   - COLUMN - 40MM
   - BEAM - 30MM
   - SLAB - 20MM

DESIGN DATAS:-

1. GRADE OF CONCRETE M40
2. GRADE OF STEEL Fe 500
4. DENSITY OF WALL =22KN/M3
5. LOADING CLASS - RESIDENTIAL
6. FOUNDATION DESIGNED AS PER BELOW SKETCH.



KEY SECTION OF THE STRUCTURE

COLUMN C13 TO C16 REMOVED

Rev.	REVISIONS	DATE	DRAWN	DESIGNED	CHECKED
C	COLUMN C17 ROTATED	19-11-24	RAJ	PRAKASH	RAM
B	REVISED AS PER COMMENTS	19-11-24	RAJ	PRAKASH	RAM
A	ISSUE FOR APPROVAL	14-11-24	VINO	PRAKASH	RAM

CLIENT:
M/s. Sri Kirthika Builders
No : 7, Kasi Chetty Street,
Parrys Corner, Chennai - 600001

PT SPECALIST:
SF ENGINEERING SYSTEMS (INDIA) PVT. LTD.
No: 1, F1, Friends Enclave, 6th Cross Street,
Venkatramalai Nagar, Sithalapakkam, Chennai-600 126.
Email:design@sfnforce.in
Web: www.sfnforce.in

PROJECT TITLE:
PROPOSED RESIDENTIAL BUILDING AT KARAPAKKAM

DRAWING TITLE:
COLUMN LAYOUT & CENTER LINE DETAILS

DRAWING NO:	REV. NO.
SFEC-SD-24-650-CL-01	C

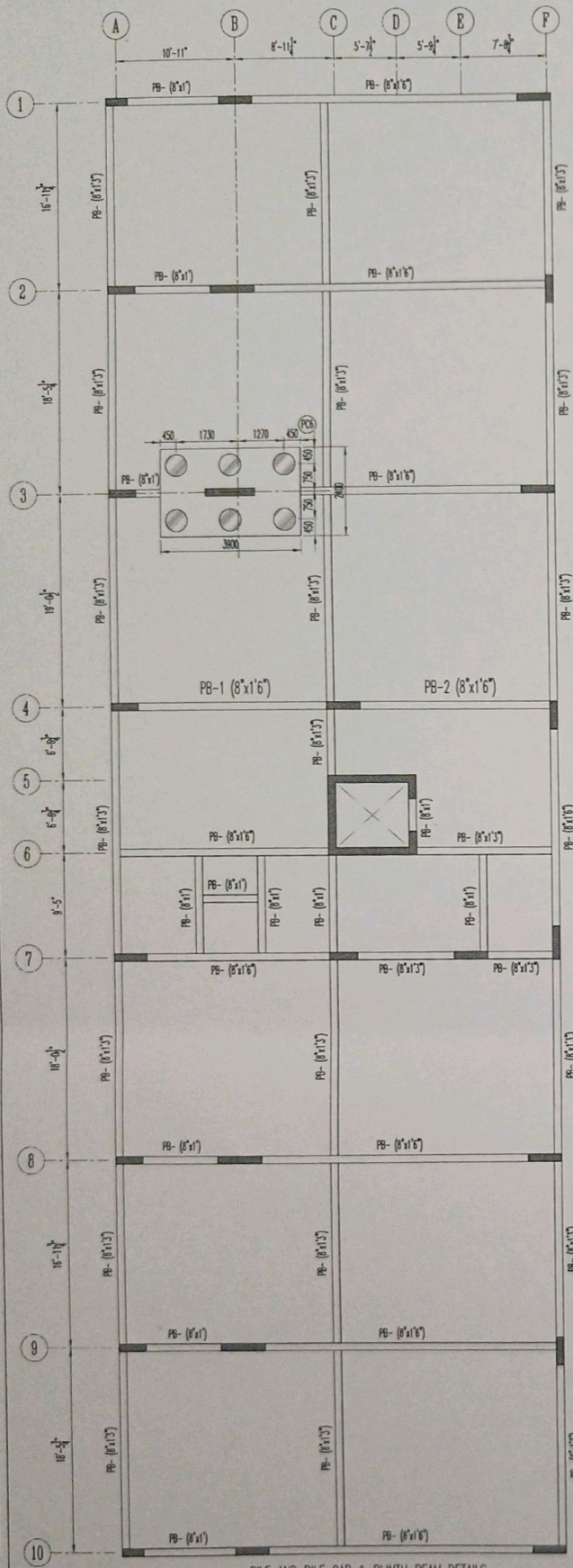
DRAWN BY:	CHECKED BY:	DATE:
VINO	RAM	14-11-24
DESIGNED BY: PRAKASH	APPROVED BY: GEO	SCALE & SIZE: 1 : 65 & A1

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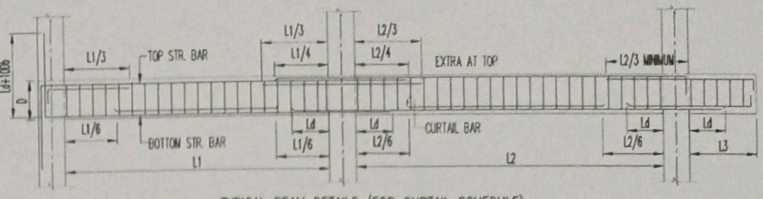
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M. GEO DAMIN, M.E (Structures)
Registered Structural Engineer Grade-I
Reg. No: SE / GR - I / 19 / 08 / 196

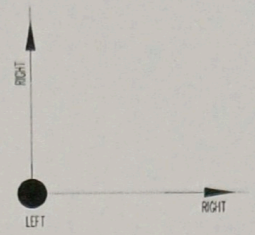
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PILE AND PILE CAP & PLINTH BEAM DETAILS



TYPICAL BEAM DETAILS (FOR CURTAIL SCHEDULE)



SUPPORT DESIGNATION FOR BEAMS

NOTES :

1) ALL DIMENSIONS ARE IN MILLIMETERS
2) CONCRETE GRADE PILE : M25
2) CONCRETE GRADE PILE CAP : M30
3) STEEL GRADE : TOR Fe 500 CONFORMING TO IS 1786-1985
*) MINIMUM CEMENT CONTENT = 400 KG/M3
4) CLEAR COVER :
PILE COVER
TO THE MAIN REINFORCEMENT = 75mm
PILE CAP = 75mm
COLUMN COVER
TO THE MAIN REINFORCEMENT =40mm
BEAM-25mm
SLAB-20mm
5) LAP LENGTH
COMPRESSION (COLUMN) : 40 ϕ
TENSION (BEAM & SLAB) : 57 ϕ
6) THE COLUMN CENTER SHOULD COINCIDE WITH CENTER OF PILE CAP.
7) PROVIDE SPACER BAR AT EVERY 900 INTERVALS
8) THE FOUNDATION AND COLUMNS ARE DESIGNED FOR BASEMENT & STILT+5 SLABS (INCLUDING HEAD ROOM & O.H.T)
9) DO NOT SCALE THIS DRAWING AND FOLLOW ARCHITECTURAL DRAWING DIMENSIONS ONLY.
10) NO CHANGES SHALL BE MADE WITHOUT THE CONCERN OF THE STRUCTURAL CONSULTANT.

IMPORTANT NOTES ON PILE :-

1.ALL PILES ARE END BEARING CAST IN SITU BORED PILES RESTING ON HARD STRATA AT A MINIMUM DEPTH OF 15M.

2.PILES SHOULD BE DRIVEN FOR 1.5 TIMES THE DIA. OF PILE (OR) 300MM WHICH EVER IS MAXIMUM INTO THE HARD STRATA.

3.LOAD TEST ON PILE SHOULD BE CARRIED OUT AS PER IS STANDARD FOR THE FOLLOWING SAFE LOAD FOR EACH PILE :

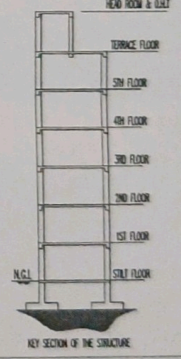
* 500 ϕ – 60 TONNES.
* 600 ϕ – 85 TONNES.

LOAD TEST ON PILE :-

TWO NUMBERS OF RESPECTIVE PILE SHALL BE SELECTED FOR TESTING OF WORKING PILE AS PER IS STANDARD NORMS BEFORE CASTING OF PILE CAP.

DESIGN DATAS:-

*) DENSITY OF WALL =220N/M3
*) LOADING CLASS – RESIDENTIAL
*) TYPE – III DESIGN FOR GRAVITY LOADS.
*) FOUNDATION DESIGNED AS PER BELOW SKETCH.



KEY SECTION OF THE STRUCTURE

SCHEDULE OF PLINTH BEAMS

BEAM NO	BEAM SIZES		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS (2 LEGGED)		
BEAM ID	BREADTH	DEPTH	STRAIGHT	CURTAILED (MID)	STRAIGHT	LEFT	RIGHT	LEFT	MIDDLE	RIGHT
PB-1	8"	1'6"	2T16	-	2T16	-	2T12	T8-9"	T8-9"	T8-9"
PB-2	8"	1'6"	2T16	-	2T16	2T12	-	T8-9"	T8-9"	T8-9"

M. GEO DAMIN, M.E (Structures)
Registered Structural Engineer Grade-I
Reg. No: SE / GR - I / 19 / 08 / 196

Rev.	REVISIONS	DATE	DRAWN	DESIGNED	CHECKED
A	ISSUE FOR APPROVAL	21-11-24	RAJ	PRAKASH	RAM

CLIENT:
M/s. Sri Kirthika Builders
No : 7, Kandi Chetty Street,
Parrys Corner, Chennai - 600001

PT SPECIALIST:
SF ENGINEERING SYSTEMS (INDIA) PVT. LTD.
No: 1, F1, Friends Enclave, 6th Cross Street, Venkatanadar Nagar, Sithalapakkam, Chennai-600 126.
Email:design@sfinforce.in
Web: www.sfinforce.in

PROJECT TITLE:
PROPOSED RESIDENTIAL BUILDING AT KARAPAKKAM

DRAWING TITLE:
PILE AND PILE CAP & PLINTH BEAM DETAILS

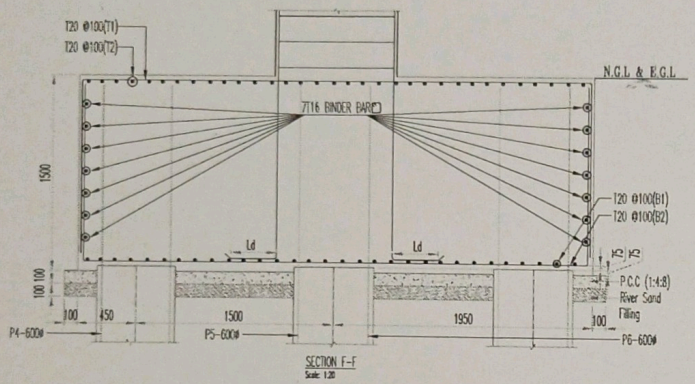
DRAWING NO:	REV. NO.
SPEC-SD-24-650-PF-01	A
DRAWN BY: RAJ / CHECKED BY: RAM / DATE: 21-11-24	
DESIGNED BY: PRAKASH / APPROVED BY: GEO / SCALE & SIZE: 1 : 65 & A1	

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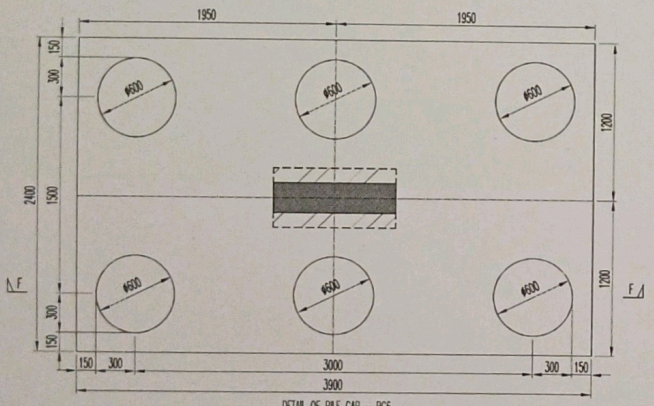
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PILE AND PILE CAP SCHEDULE

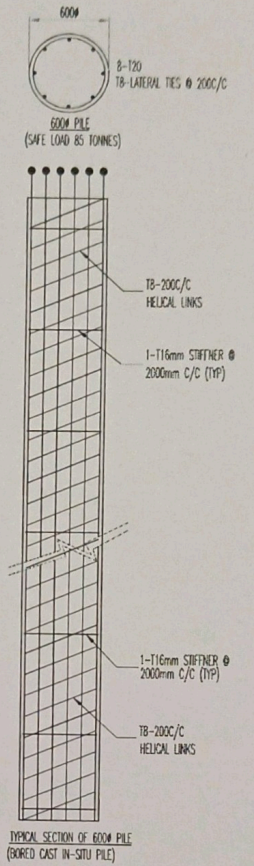
PILE CAP NUMBERS	FOOTING DIMENSION			NO.OF PILE WITH DIA	PILE CAP REINFORCEMENT			
					TOP		BOTTOM	
	L	B	D		(T1)	(T2)	(B1)	(B2)
PC6-1	3900	2400	1500	6-600ø	T20@100 c/c	T20@100 c/c	T20@100 c/c	T20@100 c/c



SECTION F-F
Scale: 1:20



DETAIL OF PILE CAP - PC6
Scale: 1:20



TYPICAL SECTION OF 600ø PILE
(BORED CAST IN-SITU PILE)

NOTES :

1) ALL DIMENSIONS ARE IN MILLIMETERS
2) CONCRETE GRADE PILE : M25
2) CONCRETE GRADE PILE CAP : M30
3) STEEL GRADE : TOR Fe 500
CONFIRMING TO IS 1786-1985
*) MINIMUM CEMENT CONTENT = 400 KG/M3
4) CLEAR COVER :
PILE COVER
TO THE MAIN REINFORCEMENT = 75mm
PILE CAP = 75mm
COLUMN COVER
TO THE MAIN REINFORCEMENT =40mm
BEAM=25mm
SLAB=20mm
5) LAP LENGTH
COMPRESSION (COLUMN) : 40 ø
TENSION (BEAM & SLAB) : 57 ø
6) THE COLUMN CENTER SHOULD COINCIDE WITH CENTER OF PILE CAP.
7) PROVIDE SPACER BAR AT EVERY 900 INTERVALS
8) THE FOUNDATION AND COLUMNS ARE DESIGNED FOR BASEMENT & STILT+6 SLABS (INCLUDING HEAD ROOM & O.H.T)
9) DO NOT SCALE THIS DRAWING AND FOLLOW ARCHITECTURAL DRAWING DIMENSIONS ONLY.
10) NO CHANGES SHALL BE MADE WITHOUT THE CONCERN OF THE STRUCTURAL CONSULTANT.

IMPORTANT NOTES ON PILE :-

1.ALL PILES ARE END BEARING CAST IN SITU BORED PILES RESTING ON HARD STRATA AT A MINIMUM DEPTH OF 15M.

2.PILES SHOULD BE DRIVEN FOR 1.5 TIMES THE DIA. OF PILE (OR) 300MM WHICH EVER IS MAXIMUM INTO THE HARD STRATA.

3.LOAD TEST ON PILE SHOULD BE CARRIED OUT AS PER IS STANDARD FOR THE FOLLOWING SAFE LOAD FOR EACH PILE .

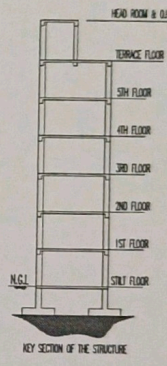
* 500 ø - 60 TONNES.
* 600 ø - 85 TONNES.

LOAD TEST ON PILE :-

TWO NUMBERS OF RESPECTIVE PILE SHALL BE SELECTED FOR TESTING OF WORKING PILE AS PER IS STANDARD NORMS BEFORE CASTING OF PILE CAP

DESIGN DATAS:-

*) DENSITY OF WALL =2200/M3
*) LOADING CLASS - RESIDENTIAL
*) TYPE - RC DESIGN FOR GRAVITY LOADS.
*) FOUNDATION DESIGNED AS PER BELOW SKETCH.



KEY SECTION OF THE STRUCTURE

Rev.	REVISIONS	DATE	DRAWN	DESIGNED	CHECKED
B	REVISED AS PER LATEST DWG.	21-11-24	RAJ	PRAKASH	RAM
A	ISSUE FOR APPROVAL	15-11-24	RAJ	PRAKASH	RAM

CLIENT:
M/s. Sri Kirthika Builders
No : 7, Kondi Chetty Steet,
Parrys Corner, Chennai - 600001

PT SPECIALIST:
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No: 1, F1, Friends Enclave, 6th Cross Street,
Vivekanandar Nagar, Sithalapakkam, Chennai-600 126.
Email:design@shivforce.in
Web: www.shivforce.in

PROJECT TITLE:
PROPOSED RESIDENTIAL BUILDING AT KARAPAKKAM

DRAWING TITLE:
PILE AND PILE CAP REINFT. DETAILS

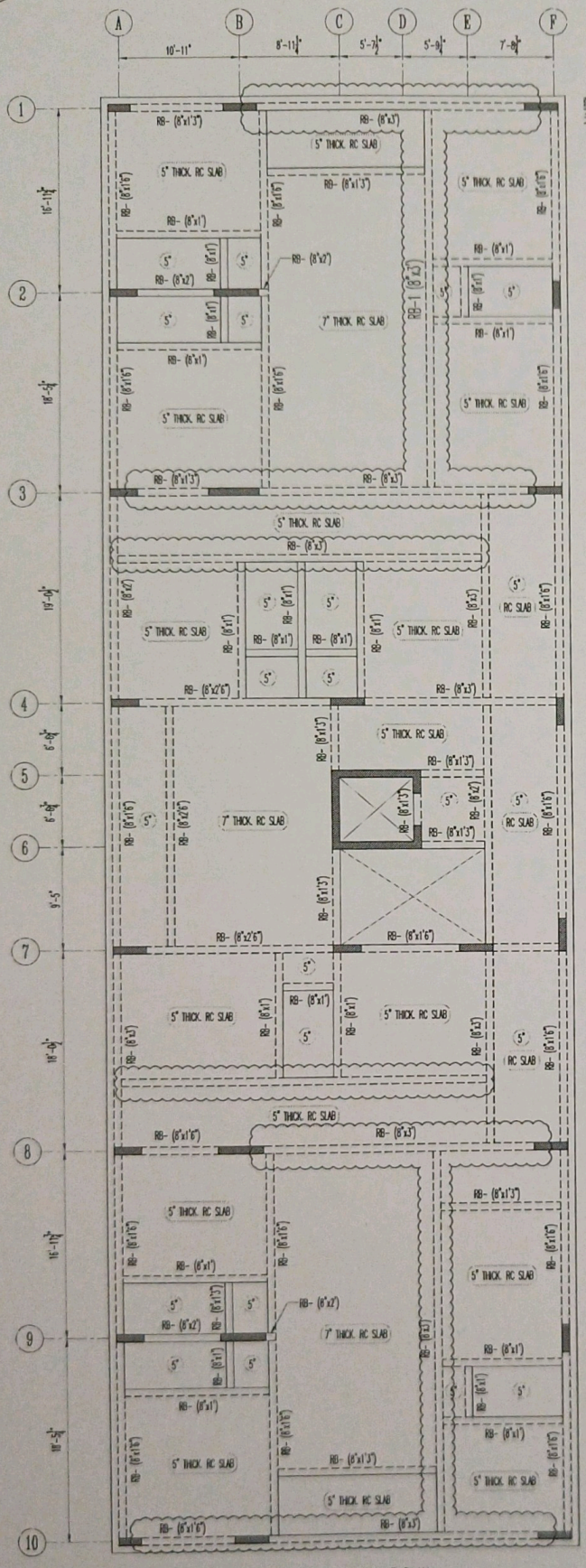
DRAWING NO:	REV. NO.
SFEC-SD-24-650-PF-03	B

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RAJ	RAM	15-11-24
DESIGNED BY:	APPROVED BY:	SCALE & SIZE:
PRAKASH	GEO	1 : 65 & A1

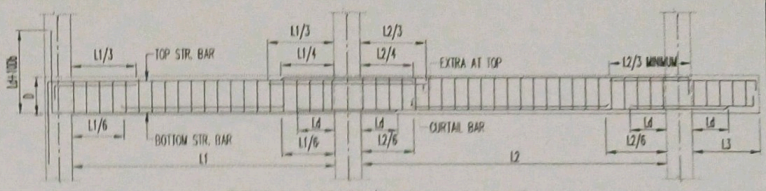
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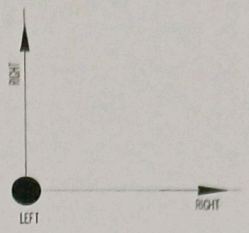
M. GEO DAMIN, M.E (Structures)
Registered Structural Engineer Grade-I
Reg. No: SE / GR - I / 19 / 08 / 196



TYPICAL FLOOR LAYOUT PLAN.



TYPICAL BEAM DETAILS (FOR CURTAIL SCHEDULE)



SUPPORT DESIGNATION FOR BEAMS

NOTES:
UNLESS OTHERWISE SHOWN.
1. MATERIAL PROPERTIES
- GRADE OF CONCRETE - M25
- CLOUDED BEAMS GRADE OF CONCRETE - M30
- GRADE OF STEEL - Fe500
2. IMPOSED LOADS
- SUPER IMPOSED DEAD LOAD - 1.5 KN/SQM
- LIVE LOAD - 2.5 KN/SQM
3. LEGENDS
- COLUMN CONTINUOUS

RC BEAM SIZE TO BE READ AS W X D
4. DESIGN CRITERIA
- DESIGNED AS PER IS:456 & IS:1343
- SEPARABILITY CLASSIFICATION TYPE III & 0.2mm CRACK WIDTH
- MODERATE EXPOSURE CONDITION
- DESIGNED FOR GRAVITY LOADS ONLY.
5. ALL DIMENSIONS ARE IN MM

NOTES:
UNLESS OTHERWISE SHOWN.
1. CONCRETE CLEAR COVER FOR RC BEAMS
- TOP: 30mm TO THE NEAREST REINFT.
- BTM: 30mm TO THE NEAREST REINFT.
2. LAP AND DEVELOPMENT LENGTH
- DEVELOPMENT LENGTH AND LAP LENGTH SHOULD BE 40Ø OF BAR
- TOP BAR SHOULD BE LAPPED AT MID SPAN & BOTTOM BARS SHALL BE LAPPED AT ONE THIRD OF SPAN DISTANCE FROM SUPPORT.
- LAPS SHOULD BE KEPT STAGGERED.

- CLOUDED BEAMS GRADE OF CONCRETE - M30

SCHEDULE OF RC BEAMS

BEAM NO	BEAM SIZES		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS (2 LEGGED)			SIDE FACE
BEAM ID	BREADTH	DEPTH	STRAIGHT	CURTAILED (MID)	STRAIGHT	LEFT	RIGHT	LEFT	MIDDLE	RIGHT	
RB-1	8"	3'	2T25	2T25+2T32	2T25+2T20	-	-	T10-125	T10-200	T10-125	2T20

A	ISSUE FOR APPROVAL	21-11-24	RAJ PRAKASH RAM
Rev.	REVISIONS	DATE	DRAWN DESIGNED CHECKED

CLIENT:
M/s. Sri Karthika Builders
No : 7, Kasali Chetty Street,
Parrys Corner, Chennai - 600001

PE SPECIALIST:
SE ENGINEERING SYSTEMS (INDIA) PVT. LTD.
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PROJECT TITLE:
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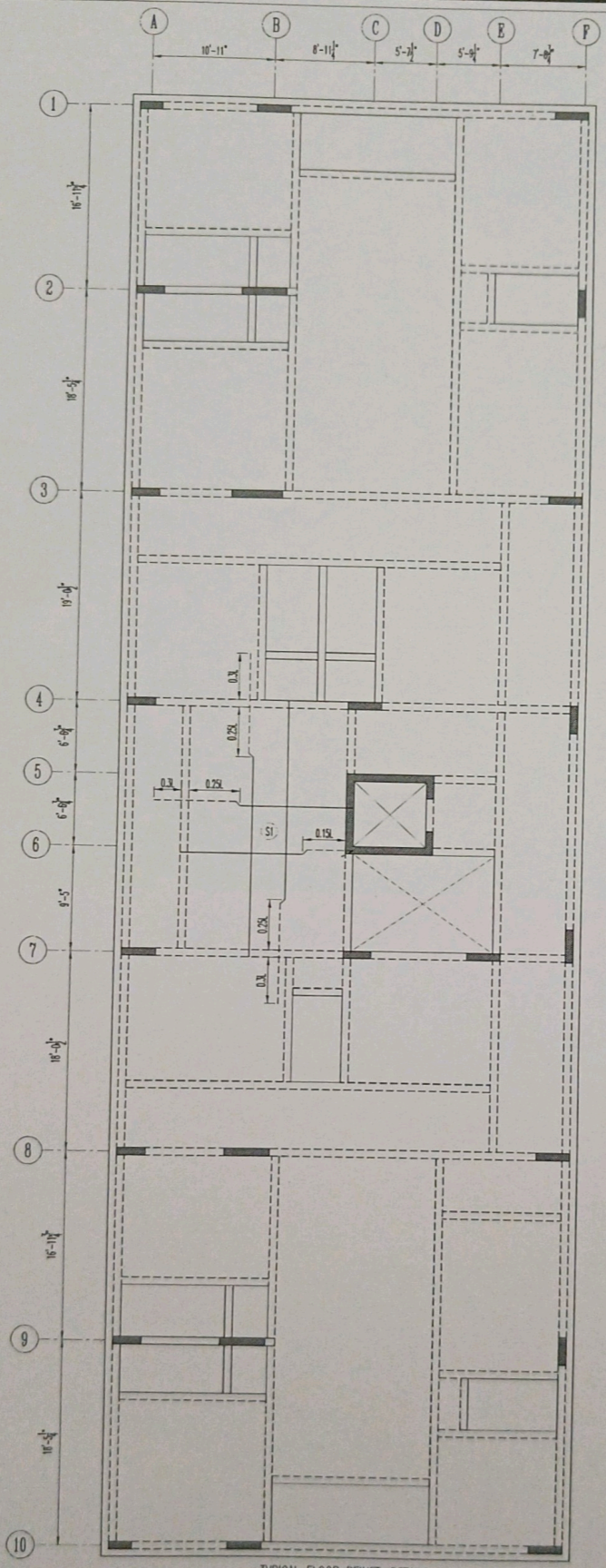
DRAWING TITLE:
TYPICAL FLOOR LAYOUT PLAN
& RC BEAM REINFT. DETAILS

DRAWING NO: SPEC-SD-24-650-TF-01		REV. NO. A
DRAWN BY: RAJ	CHECKED BY: RAM	DATE: 21-11-24
DESIGNED BY: PRAKASH	APPROVED BY: GEO	SCALE & SIZE: 1 : 65 & A1

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M. GEO DAMIN, M.E (Structures)
Registered Structural Engineer Grade-I
Reg. No: SE / GR - I / 19 / 08 / 196

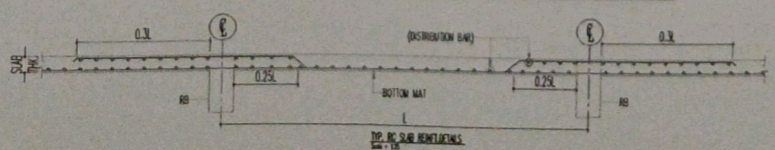


TYPICAL FLOOR REINFT. DETAILS

Scale - NIS

DETAIL OF RC SLAB REINFORCEMENT

SLAB ID	SLAB THICKNESS	TYPE	BOTTOM REINFORCEMENT		MIX	REMARKS
			SHORTER DIRECTION	LONGER DIRECTION		
S1	7"	TWO WAY	T10-6" C/C	T10-6" C/C	M25	-



TOP RC SLAB REINFORCEMENTS

Scale - NIS

NOTES:
UNLESS OTHERWISE SHOWN,

* ALL DIMENSIONS ARE IN MM.

1. CONCRETE CLEAR COVER FOR RC SLABS:
   * TOP: 20mm TO THE NEAREST REINFT.
   * BTM: 20mm TO THE NEAREST REINFT.
2. LAP AND DEVELOPMENT LENGTH
   * DEVELOPMENT LENGTH AND LAP LENGTH SHOULD BE 40ϕ OF BAR
   * TOP BAR SHOULD BE LAPPED AT MID SPAN & BOTTOM BARS SHALL BE LAPPED AT ONE THIRD OF SPAN DISTANCE FROM SUPPORT.
   * LAPS SHOULD BE KEPT STAGGERED.

M. GEO DAMIN, M.E (Structures)
Registered Structural Engineer Grade-I
Reg. No: SE / GR - I / 19 / 08 / 196

Rev.	REVISIONS	DATE	DRAWN	DESIGNED	CHECKED
A	ISSUE FOR APPROVAL	21-11-24	RAJ	PRAKASH	RAW

CLIENT:
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Email:design@shivforce.in
Web: www.shivforce.in

PROJECT TITLE:
PROPOSED RESIDENTIAL BUILDING AT KARAPAKKAM

DRAWING TITLE:
TYPICAL FLOOR REINFT. DETAILS

DRAWING NO:	REV. NO.
SFEC-SD-24-650-TF-02	A
DRAWN BY: RAJ	CHECKED BY: RAW
DESIGNED BY: PRAKASH	APPROVED BY: GEO
DATE: 21-11-24	SCALE & SIZE: 1 : 65 & A1

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