Verified RealEstate™

RE REGULATORY RECORD

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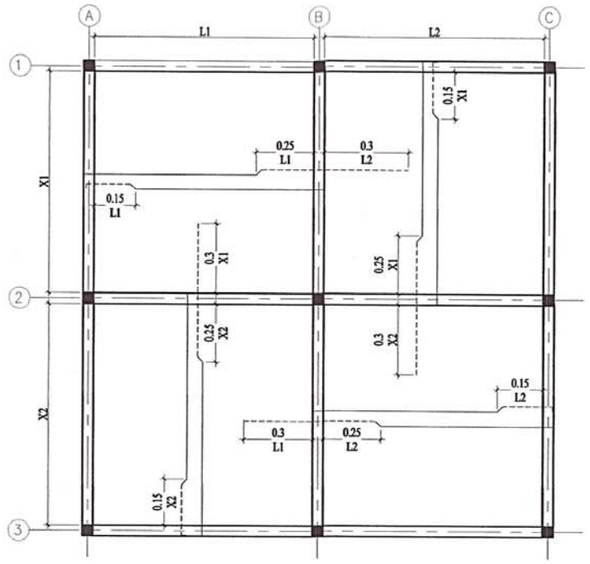
DIGITALLY VERIFIED RECORD

BASEMENT FLOOR ROOF BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
BRB1	200x450	2-16Y 8Y @200C/C 3-16Y	2-16Y+ 2-16Y 8Y @100C/C 3-16Y
BRB2	200x450	2-16Y 8Y @200C/C 3-25Y	2-16Y+2-25Y 8Y @100C/C 3-25Y
BRB3	200x600	2-20Y 8Y @200C/C 2-16Y+1-20Y	2-20Y+2-25Y 8Y @100C/C 2-16Y+1-20Y
BRB4	200x450	2-16Y 8Y @200C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @100C/C 2-16Y+1-12Y
BRB5	200x600	2-20Y 8Y @200C/C 2-20Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-20Y
BRB6	200x600	2-20Y 8Y @200C/C 2-20Y+2-20Y	2-20Y+2-25Y 8Y @100C/C 2-20Y
BRB7	200x600	2-20Y 8Y @200C/C 2-20Y+1-16Y	2-20Y+2-25Y 8Y @100C/C 2-20Y+1-16Y
BRB8	200x375	2-12Y 8Y @200C/C 2-16Y	2-12Y 8Y @100C/C 2-16Y
BRB9	200x450	2-20Y 8Y @200C/C 2-20Y+1-25Y	2-20Y+2-25Y 8Y @100C/C 2-20Y+1-25Y
BRB10	300x1500	3-20Y 8Y @150C/C 10-12Y SKIN BAR 3-20Y	3-20Y 8Y @100C/C 10-12Y SKIN BAR 3-20Y

BASEMENT FLOOR ROOF BEAM DETAILS

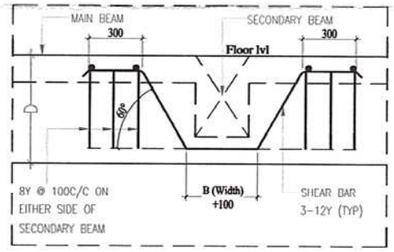
Type	Size BxD	AT MIDSPAN	AT SUPPORT
BRB11	300x1500	3-20Y 10-12Y SKIN BAR 8Y @150C/C 3-20Y+2-20Y	3-20Y+ 2-20Y 10-12Y SKIN BAR 8Y @100C/C 3-20Y
BRB12	200x600	2-20Y 10Y @200C/C 2-25Y+2-20Y	2-20Y+2-25Y 10Y @100C/C 2-25Y
BRB13	200x450	2-16Y 8Y @200C/C 2-20Y+1-25Y	2-16Y+2-16Y 8Y @100C/C 2-20Y+1-25Y
BRB14	200x450	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
BRB15	200x600	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-16Y 8Y @100C/C 3-16Y
BRB16	200x450	2-16Y 8Y @200C/C 3-25Y	2-16Y+ 2-25Y 8Y @100C/C 3-25Y
BRB17	200x450	2-16Y 8Y @100C/C 3-25Y	3-16Y+ 2-20Y 8Y @100C/C 3-25Y
BRB18	200x450	2-20Y 8Y @100C/C 3-20Y	2-20Y+ 2-25Y 8Y @100C/C 3-20Y



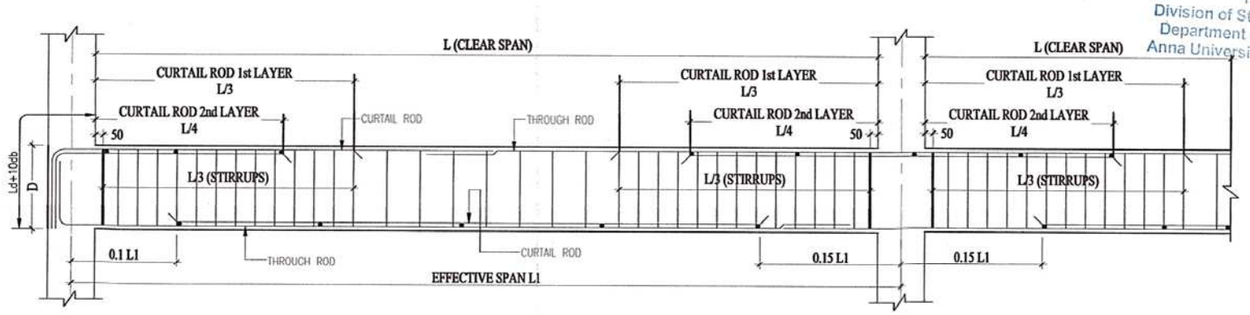
TYPICAL SLAB LAYOUT

ROOF SLAB DETAILS

TYPE	SLAB DEPTH	SLAB TYPE	REINFORCEMENT	
			SHORTER	LONGER
S1	175 THK.	TWO WAY	12Y @100C/C	12Y @125C/C
S2	165 THK.	TWO WAY	10Y @100C/C	10Y @125C/C
S3	150 THK.	TWO WAY	10Y @125C/C	10Y @150C/C
S4	150 THK.	ONE WAY	10Y @100C/C	8Y @200C/C
S5	150 THK.	ONE WAY	10Y @150C/C	10Y @150C/C
S6	250 THK.	ONE WAY	12Y @100C/C	12Y @150C/C



TYPICAL SHEAR REINFORCEMENT DETAILS



TYPICAL L.S OF BEAM

GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
   Column clear cover -40mm,
   Footing clear cover -50 mm,
   Raft beam clear cover -50mm,
   R.C.C wall clear cover - 25mm,
   Beam clear cover -25mm,
   Slab clear cover -20mm.
6. Lap length for all bars shall be 46 d where d is the diameter of the bar.
7. The center line of column should coincide with center line of footing if not shown specifically.
8. The Foundation and Columns are designed for Basement + Stilt + 11 floors only.
9. Do not scale this drawing and follow architectural drawing dimensions only.
10. No.changes shall be made without the consent of the structural consultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
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No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196-ST-S-09 DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

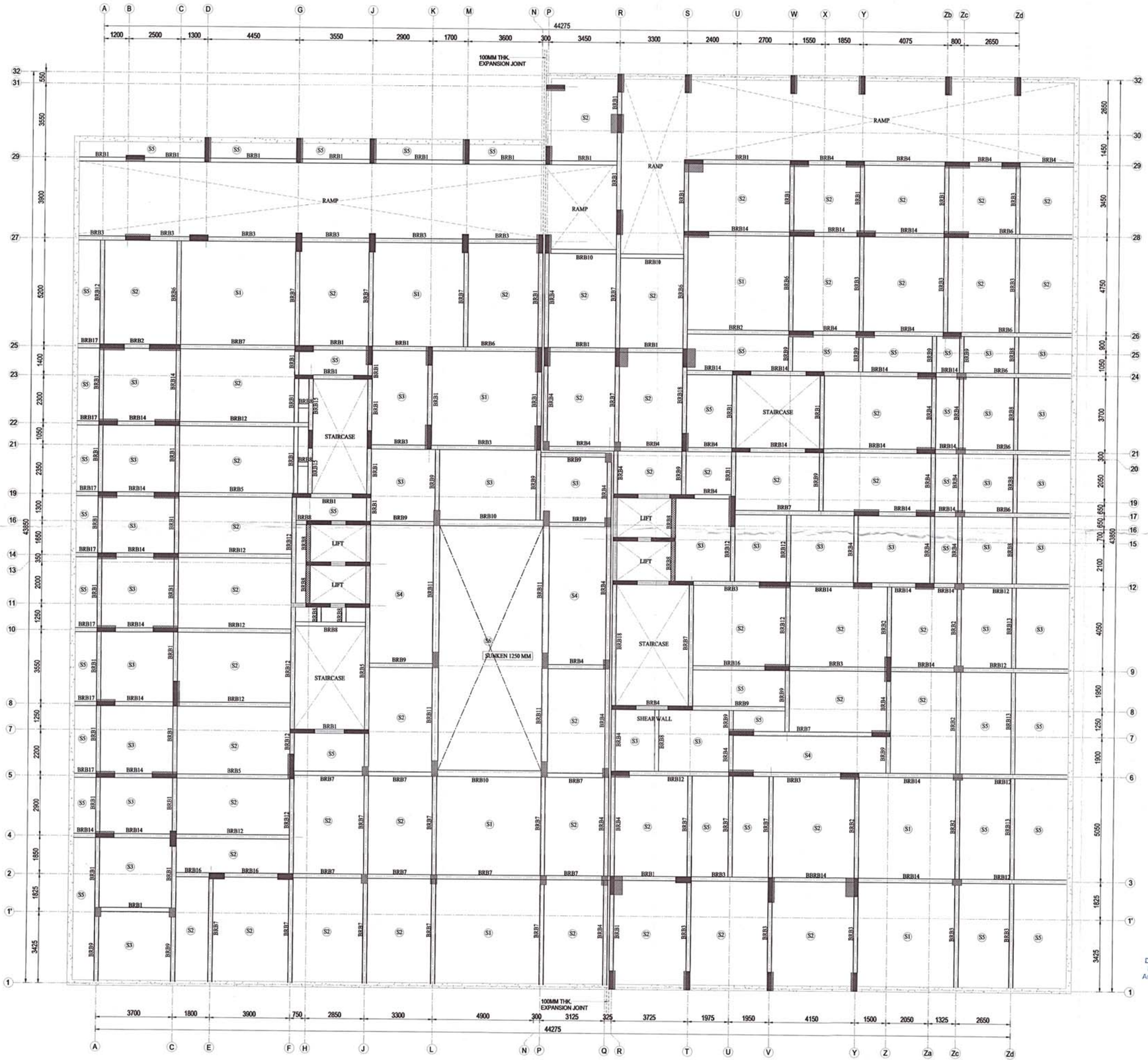
ARCHITECTS :
ARTID ARCHITECTS
#AK25, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
BASEMENT FLOOR ROOF BEAM DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
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Mob : +91 9994160046

SCALE	1 : 50	DRAWN BY	NPK
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR



GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
   Column clear cover -40mm,
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   R.C.C wall clear cover - 25mm,
   Beam clear cover -25mm,
   Slab clear cover -20mm.
6. Lap length for all bars shall be 46 d where d is the diameter of the bar.
7. The center line of column should coincide with center line of footing if not shown specifically.
8. The Foundation and Columns are designed for Basement + Stilt + 11 floors only.
9. Do not scale this drawing and follow architectural drawing dimensions only.
10. No.changes shall be made without the consent of the structural consultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.BSE10048025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196-ST-S-08 DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK35, 12TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

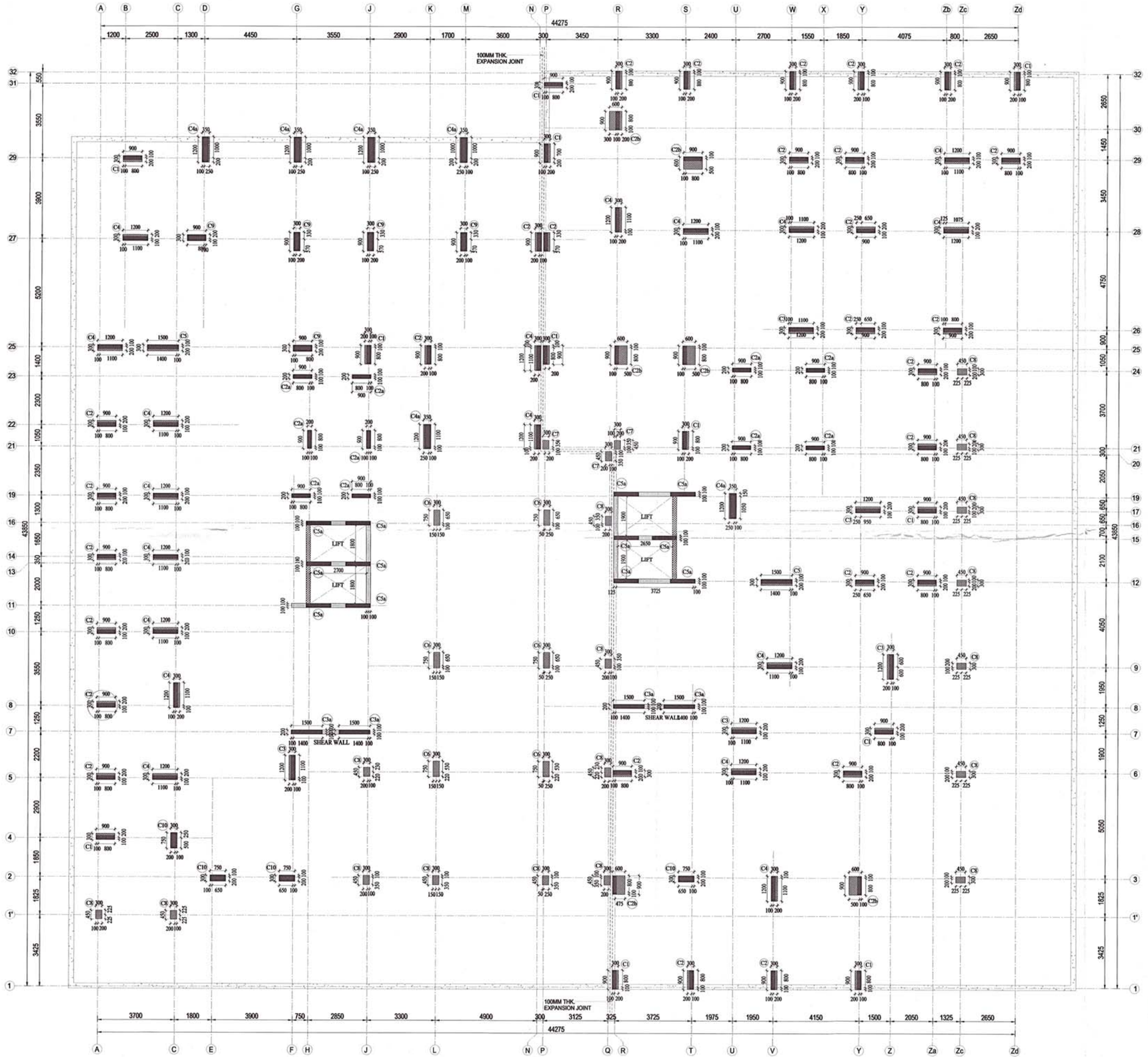
DRAWING TITLE:
BASEMENT FLOOR ROOF BEAM LAYOUT

N

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
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SCALE	1 : 90	DRAWN BY	NPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

22.7.25
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.



GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
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   R.C.C wall clear cover - 25mm,
   Beam clear cover -25mm,
   Slab clear cover -20mm.
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9. Do not scale this drawing and follow architectural drawing dimensions only.
10. No.changes shall be made without the consent of the structural cousultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E. (Structural), M.I.E.
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/CR-1/2024/03/013,
Greater Chennai Corporation, Regn. No.BSE100482025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196-ST-S-01 | DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK35, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD,
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
COLUMN CENTER LINE LAYOUT

N

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
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email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 90	DRAWN BY	NPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

22/7/25
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C1	300 x 900 Basement floor	300 / 900	• 14-25Y+ ○ 7-16Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	300 x 900 Stilt floor	300 / 900	• 14-25Y+ ○ 7-16Y		
	200 x 900 First floor	200 / 900	• 6-25Y+ ○ 8-20Y		
	200 x 900 Second floor	200 / 900	• 6-25Y+ ○ 8-20Y		
	200 x 900 Third & Fourth floor	200 / 900	• 6-25Y+ ○ 8-20Y		
	200 x 900 Fifth floor	200 / 900	• 6-25Y+ ○ 8-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x 900 Upper floors	200 / 900	• 6-25Y+ ○ 8-20Y		
C2	300 x 900 Basement & Stilt floor	300 / 900	• 20-20Y+ ○ 10-16Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x 900 First floor	200 / 900	• 20-20Y		
	200 x 900 Second floor	200 / 900	• 20-20Y		
	200 x 900 Third floor	200 / 900	• 20-20Y		
	200 x 900 Fourth floor	200 / 900	• 20-20Y		
	200 x 900 Fifth floor	200 / 900	• 20-20Y		
	200 x 900 Sixth floor	200 / 900	• 20-20Y		
	200 x 900 Seventh floor	200 / 900	• 20-20Y		
	200 x 900 Upper floors	200 / 900	• 20-16Y		

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C3	300 x 1200 Basement & Stilt floor	300 / 1200	• 16-20Y+ ○ 8-16Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x1200 First floor	200 / 1200	• 16-20Y		
	200 x1200 Second floor	200 / 1200	• 16-20Y		
	200 x1200 Third floor	200 / 1200	• 16-16Y		
	200 x1200 Fourth floor	200 / 1200	• 16-16Y		
	200 x1200 Fifth floor	200 / 1200	• 16-16Y		
	200 x1200 Upper floors	200 / 1200	• 16-16Y		
C4	300 x 1200 Basement & Stilt floor	300 / 1200	• 20-20Y+ ○ 10-16Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x1200 First floor	200 / 1200	• 20-20Y		
	200 x1200 Second floor	200 / 1200	• 12-32Y+ ○ 8-25Y		
	200 x1200 Third floor	200 / 1200	• 12-32Y+ ○ 8-25Y		
	200 x1200 Fourth floor	200 / 1200	• 12-32Y+ ○ 8-25Y		
	200 x1200 Fifth floor	200 / 1200	• 12-32Y+ ○ 8-25Y		

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C4	200 x1200 Sixth floor	200 / 1200	• 12-32Y+ ○ 8-25Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x1200 Upper floors	200 / 1200	• 12-32Y+ ○ 8-25Y		
C5	300 x 1500 Basement & Stilt floor	300 / 1500	• 24-20Y+ ○ 12-16Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x 1500 First floor	200 / 1500	• 24-20Y		
	200 x 1500 Second floor	200 / 1500	• 16-20Y+ ○ 8-16Y		
	200 x 1500 Third floor	200 / 1500	• 24-16Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x 1500 Fourth floor	200 / 1500	• 24-16Y		
	200 x 1500 Fifth floor	200 / 1500	• 24-16Y		
	200 x 1500 Sixth floor	200 / 1500	• 24-16Y		
	200 x 1500 Upper floors	200 / 1500	• 24-16Y		
C5a	200 x1200 Sub & first floor	200 / 1200	• 14-25Y+ ○ 6-20Y		
	200 x1200 Upper floors	200 / 1200	• 20-20Y		

COLUMN DETAILS

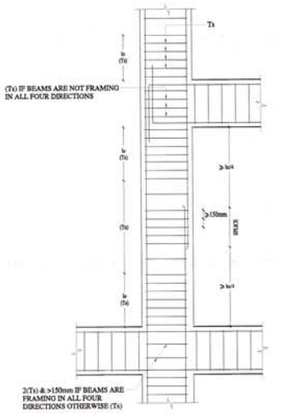
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C6	300 x 750 Basement & Stilt floor	300 / 750	• 20-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	300 x 750 Up to Stilt floor	300 / 750	• 20-20Y		
C7	300 x 450 Up to Stilt floor	300 / 450	• 8-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
C8	300 x 450 Up to Stilt floor	300 / 450	• 12-25Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
C9	300 x 900 Basement & Stilt floor	300 / 900	• 24-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	300 x 900 First floor	300 / 900	• 24-20Y		
	300 x 900 Second floor	300 / 900	• 12-20Y+ ○ 12-16Y		
	300 x 900 Third floor	300 / 900	• 12-20Y+ ○ 12-16Y		
	300 x 900 Fourth floor	300 / 900	• 24-16Y		
	300 x 900 Fifth floor	300 / 900	• 24-16Y		
	300 x 900 Sixth floor	300 / 900	• 24-16Y		
	300 x 900 Seventh floor	300 / 900	• 24-16Y		
	300 x 900 Upper floors	300 / 900	• 24-16Y		
C10	300 x 750 Basement & Stilt floor	300 / 750	• 16-22Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	300 x 750 First & Second floor	300 / 750	• 8-25Y+ ○ 8-20Y		
	300 x 750 Third To Fifth floor	300 / 750	• 16-20Y		
	300 x 750 Sixth & Seventh floor	300 / 750	• 8-20Y+ ○ 8-16Y		
	300 x 750 Upper floors	300 / 750	• 16-16Y		

COLUMN DETAILS

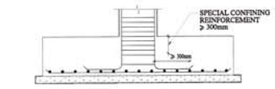
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C2a	200 x 900 Basement & Stilt floor	200 / 900	• 20-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x 900 First floor	200 / 900	• 20-20Y		
	200 x 900 Second floor	200 / 900	• 20-20Y		
	200 x 900 Third floor	200 / 900	• 20-20Y		
	200 x 900 Upper floors	200 / 900	• 20-20Y		
C2b	600 x 900 Basement & Stilt floor	600 / 900	• 20-20Y+ ○ 16-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x 900 First floor	200 / 900	• 20-20Y		
	200 x 900 Second floor	200 / 900	• 20-20Y		
	200 x 900 Third floor	200 / 900	• 20-20Y		
	200 x 900 Fourth floor	200 / 900	• 24-16Y		
	200 x 900 Upper floors	200 / 900	• 20-20Y		
C3a	200 x1500 Sub & first floor	200 / 1500	• 12-32Y+ ○ 8-25Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	200 x1500 Second floor	200 / 1500	• 12-32Y+ ○ 8-25Y		
	200 x1500 Third floor	200 / 1500	• 20-25Y		
	200 x1500 Fourth floor	200 / 1500	• 20-25Y		
	200 x1500 Upper floors	200 / 1500	• 12-25Y+ ○ 8-20Y		

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C4a	350 x 1200 Basement & Stilt floor	350 / 1200	• 20-25Y+ ○ 10-20Y		8Y @150C/C (Ts) 8Y @100C/C (Ts)
	300 x1200 First floor	300 / 1200	• 20-25Y		
	300 x1200 Second floor	300 / 1200	• 20-25Y		
	300 x1200 Upper floors	300 / 1200	• 20-25Y		



COLUMN AND JOINT DETAILING



PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTING

NOTES REGARDING DUCTILITY DETAILING:-

lo : DISTANCE FOR WHICH SPECIAL CONFINING REINFORCEMENT TO BE PROVIDED SHALL NOT BE LESS THAN
- a) LARGER LATERAL DIMENSION OF THE MEMBER
- b) 1/6 OF CLEAR SPAN OF THE MEMBER
- c) 450mm

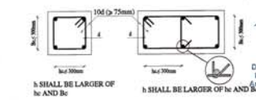
Ld : DEVELOPMENT LENGTH OF BAR IN TENSION
Ld FOR Fe500 GRADE STEEL and M30 is 46 Ø / WHERE Ø IS THE DIAMETER OF THE BAR.

d : EFFECTIVE DEPTH OF BEAM

Ts : SPECIAL CONFINING REINFORCEMENT
THE SPACING OF STIRRUPS SHALL NOT EXCEED 1/4 OF MINIMUM MEMBER DIMENSION BUT NEED NOT BE LESS THAN 75mm NOR MORE THAN 100mm.

Tn : NORMAL LATERAL REINFORCEMENT
THE SPACING OF STIRRUPS SHALL NOT EXCEED HALF THE LEAST LATERAL DIMENSION OF THE COLUMN.

LAP SPLICES SHALL NOT BE PROVIDED
- a) WITHIN A JOINT
- b) WITHIN A DISTANCE OF 2d FROM JOINT FACE &
- c) WITHIN A QUARTER LENGTH OF MEMBER FROM JOINT
- d) NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION



SINGLE HOOP — SINGLE HOOP WITH A CROSS TIE

GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
   Column clear cover -40mm,
   Footing clear cover -50 mm,
   Raft beam clear cover -50mm,
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   Beam clear cover -25mm,
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12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

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No:92, 8th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196--ST--S--02 DATE: 21--07--2025

CLIENT:
M/s. S R and Co
Hosur.

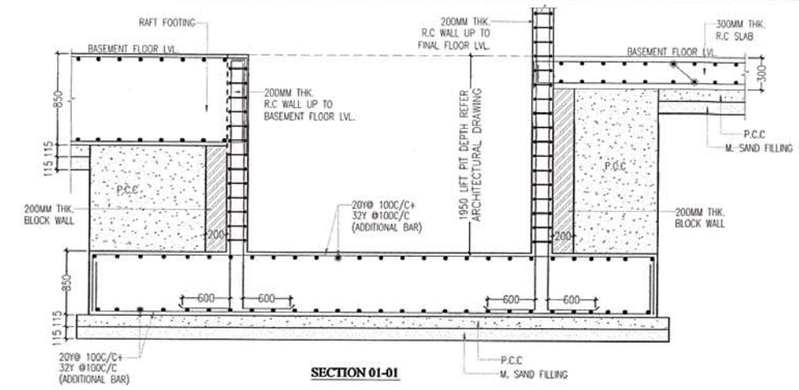
ARCHITECTS :
ARTID ARCHITECTS
AK152, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

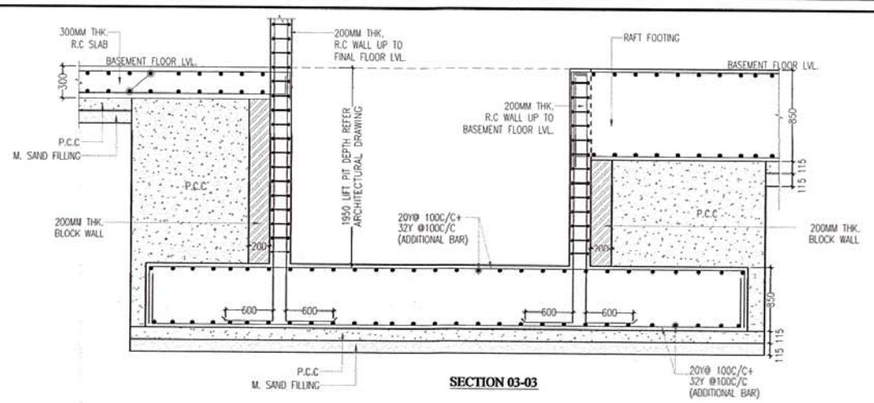
DRAWING TITLE:
COLUMN DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Dr.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

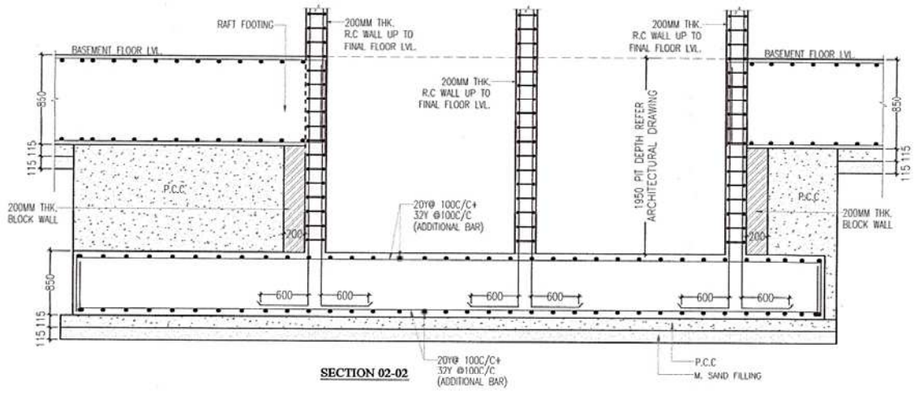
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SHEET SIZE	A0	CHECKED BY	AKR
APPROVED BY		I.R.ARUNKUMAAR	



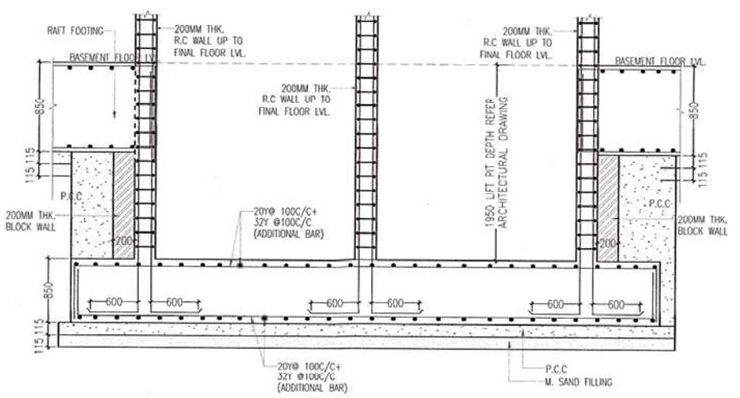
SECTION 01-01



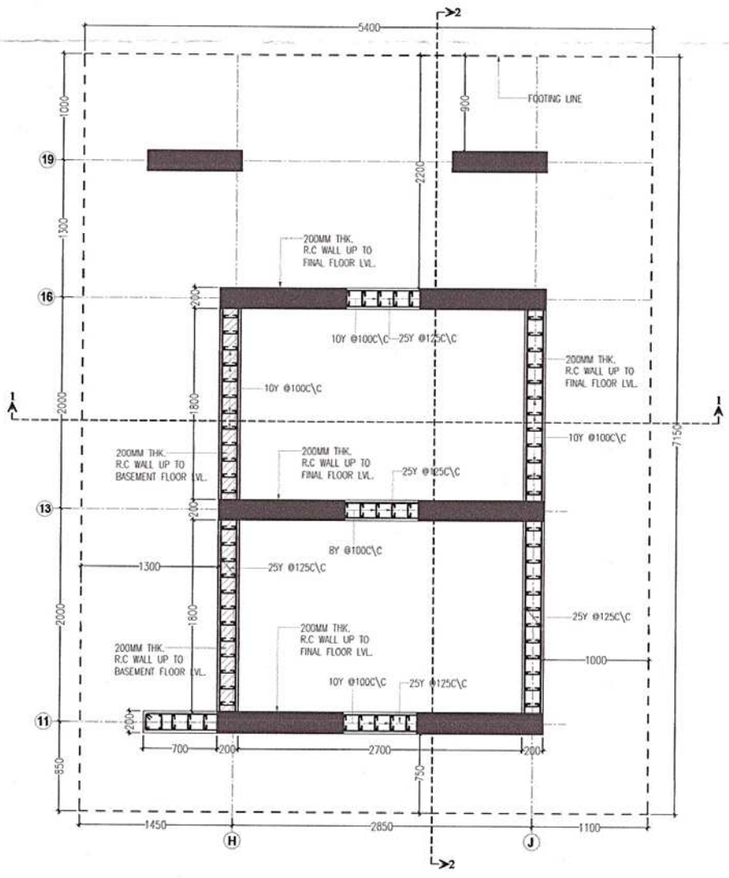
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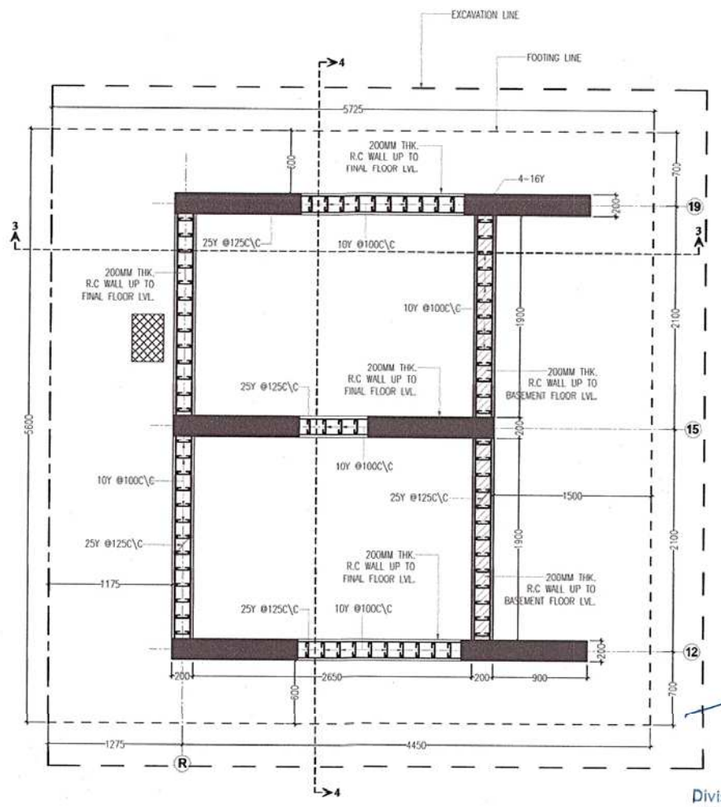
SECTION 02-02



SECTION 04-04



LIFT - 1 R.C WALL DETAILS



LIFT - 2 R.C WALL DETAILS

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 0

GENERAL NOTES :

1. All dimensions are in millimeter,
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
   Column clear cover -40mm,
   Footing clear cover -50 mm,
   Raft beam clear cover -50mm,
   R.C.C wall clear cover - 25mm,
   Beam clear cover -25mm,
   Slab clear cover -20mm.
6. Lap length for all bars shall be 46 d where d is the diameter of the bar.
7. The center line of column should coincide with center line of footing if not shown specifically.
8. The Foundation and Columns are designed for Basement + Stilt + 11 floors only.
9. Do not scale this drawing and follow architectural drawing dimensions only.
10. No.changes shall be made without the consent of the structural consultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.RSE100482025
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE
DRAWING NO : 1196-ST-S-06			DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

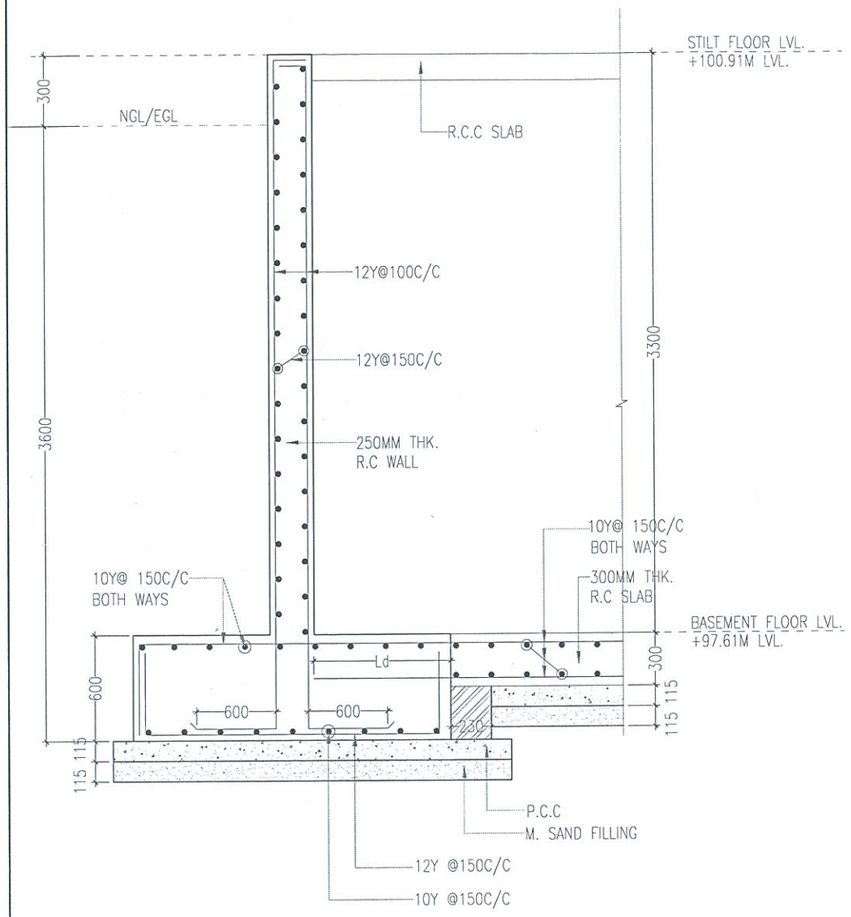
ARCHITECTS :
ARTID ARCHITECTS
#AC-15, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

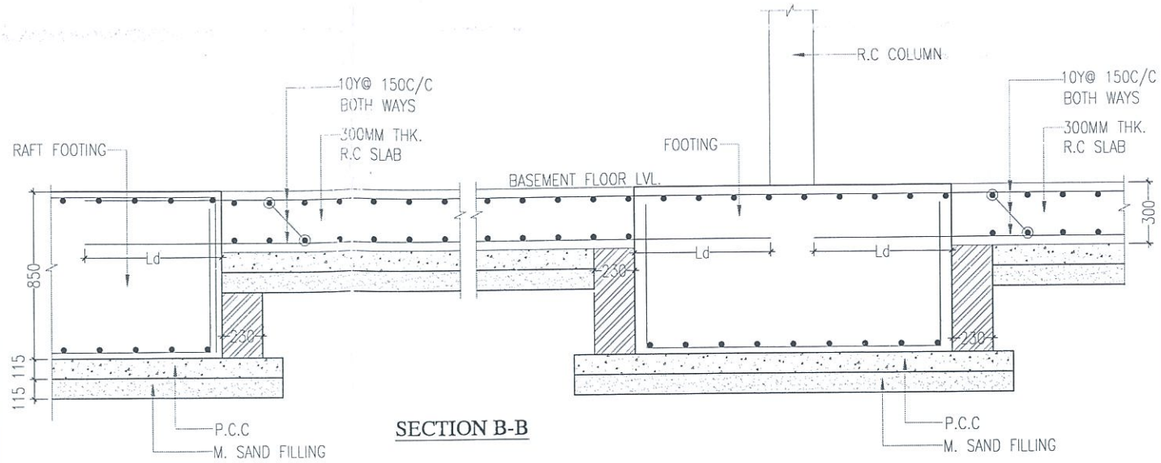
DRAWING TITLE:
LIFT FOUNDATION DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

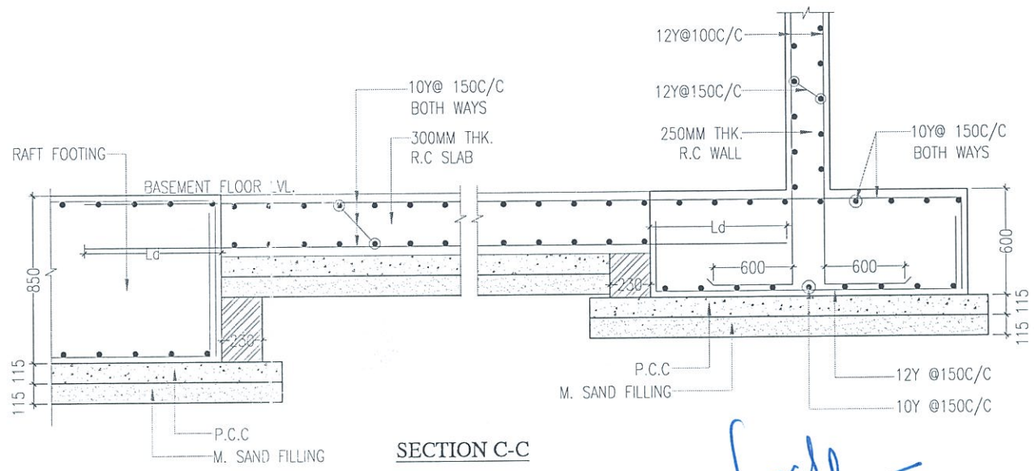
SCALE	1 : 60	DRAWN BY	NPK
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR



SECTION A-A



SECTION B-B



SECTION C-C

FOOTING DETAILS						
TYPE	SIZE Lx3	D	BOTTOM MAT		TOP MAT	
			SHORTER	LONGER	SHORTER	LONGER
F1	2750 x 2750	850	12Y @ 125C/C	12Y @ 125C/C	10Y @ 150C/C	10Y @ 150C/C
F2	2000 x 2000	850	12Y @ 150C/C	12Y @ 150C/C	10Y @ 150C/C	10Y @ 150C/C
F3	1500 x 1500	850	10Y @ 150C/C	10Y @ 150C/C	10Y @ 150C/C	10Y @ 150C/C

GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
   Column clear cover -40mm,
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   Beam clear cover -25mm,
   Slab clear cover -20mm.
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10. No.changes shall be made without the consent of the structural consultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.RSE100482025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

22.7.25
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196-ST-S-05
DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

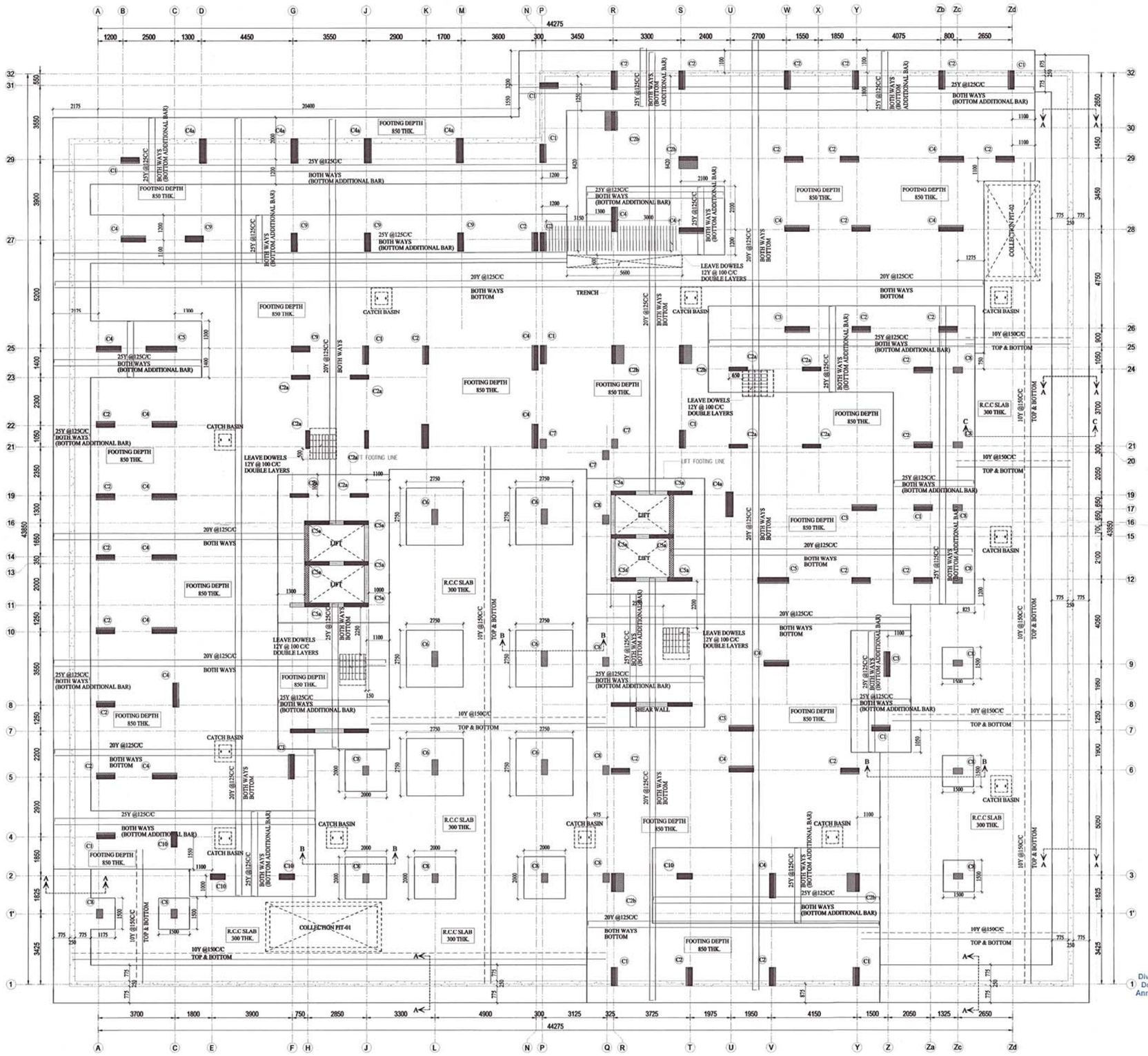
ARCHITECTS :
ARTID ARCHITECTS
#AK25, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
RAFT FOOTING SECTION DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
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CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 50	DRAWN BY	NPK
SHEET SIZE	A3	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR



GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
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   Raft beam clear cover -50mm,
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   Beam clear cover -25mm,
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8. The Foundation and Columns are designed for Basement + Stilt + 11 floors only.
9. Do not scale this drawing and follow architectural drawing dimensions only.
10. No.changes shall be made without the consent of the structural consultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/CR-1/2024/03/013,
Greater Chennai Corporation, Regn. No.BSE/1034820/25,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE
DRAWING NO : 1196-ST-S-03			DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK15, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

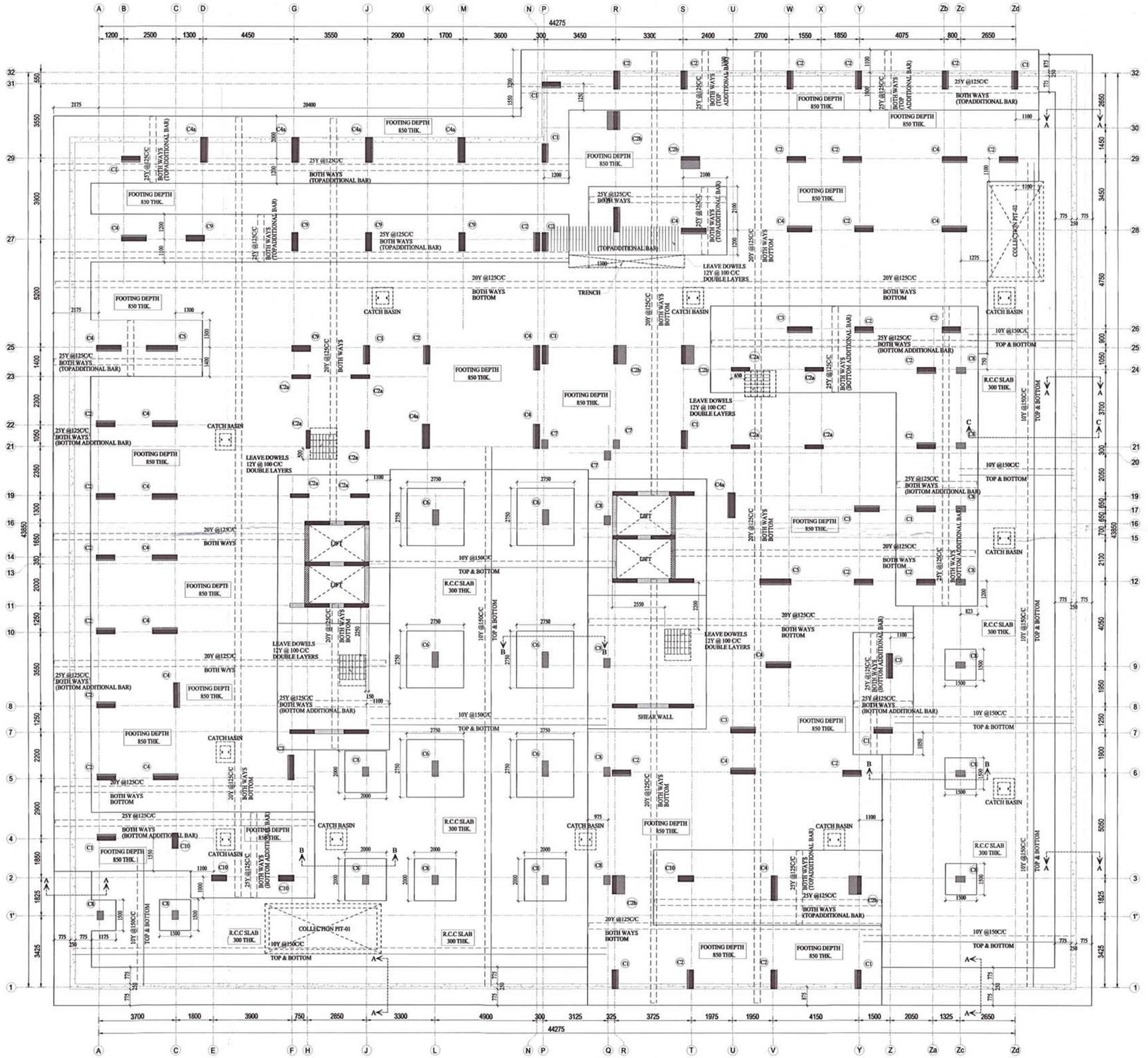
DRAWING TITLE:
RAFT FOUNDATION
BOTTOM REINFORCEMENT LAYOUT

N

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
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email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 90	DRAWN BY	NPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.



GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete grade : M30 (column, beam , r.c wall \& slb)
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
   Column clear cover -40mm,
   Footing clear cover -50 mm,
   Raft beam clear cover -50mm,
   R.C.C wall clear cover - 25mm,
   Beam clear cover -25mm,
   Slab clear cover -20mm.
6. Lap length for all bars shall be 46 d where d is the diameter of the bar.
7. The center line of column should coincide with center line of footing if not shown specifically.
8. The Foundation and Columns are designed for Basement + Stilt + 11 floors only.
9. Do not scale this drawing and follow architectural drawing dimensions only.
10. No.changes shall be made without the consent of the structural consultant.
11. The position & size of duct beams, please refer architectural drawing.
12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E. (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer 04-165213-8)
CMDA Regn. No. SE/CR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.ISE/100482025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE
DRAWING NO : 1196-ST-S-04			DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#A(25, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
RAFT FOUNDATION
TOP REINFORCEMENT LAYOUT

N

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

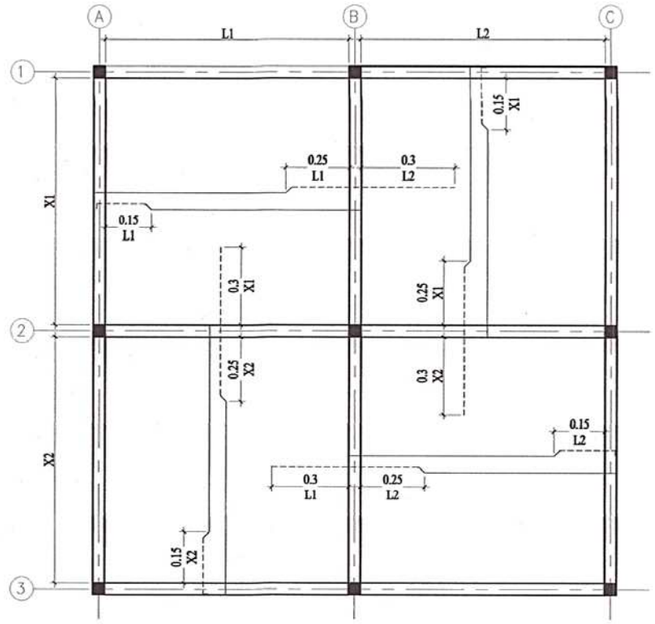
SCALE	1 : 90	DRAWN BY	NPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

STILT FLOOR ROOF BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
GRB1	200x450	2-25Y 8Y @200C/C 2-25Y+1-20Y	2-25Y+ 2-25Y 8Y @100C/C 2-25Y+1-20Y
GRB2	200x450	2-20Y 8Y @200C/C 2-20Y+1-16Y	2-20Y+2-25Y 8Y @100C/C 2-20Y+1-16Y
GRB3	200x525	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-16Y+1-20Y
GRB4	200x450	2-20Y 8Y @200C/C 2-16Y+2-16Y	2-20Y+2-25Y 8Y @100C/C 2-16Y
GRB5	200x600	2-20Y 10Y @200C/C 2-20Y+2-20Y	2-20Y+2-20Y 10Y @100C/C 2-20Y
GRB6	200x600	2-20Y 8Y @200C/C 2-20Y+2-20Y	2-20Y+2-25Y 8Y @100C/C 2-20Y
GRB7	200x525	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-25Y 8Y @100C/C 3-16Y
GRB8	200x375	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+1-20Y 8Y @100C/C 2-16Y+1-20Y
GRB9	200x600	2-20Y 10Y @200C/C 3-20Y	2-20Y+2-25Y 10Y @100C/C 3-20Y
GRB10	200x375	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y 8Y @100C/C 2-20Y
GRB11	200x450	2-16Y 8Y @200C/C 2-16Y+2-20Y	2-16Y 8Y @100C/C 2-16Y

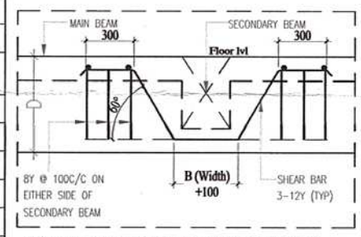
STILT FLOOR ROOF BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
GRB12	200x600	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-20Y 8Y @100C/C 3-16Y
GRB13	450x750	BEAM REMOVED	
GRB14	300x600	3-20Y 8Y @150C/C 3-20Y	3-20Y+3-20Y 8Y @100C/C 3-20Y
GRB15	300x450	3-20Y+3-16Y 8Y @200C/C 3-16Y	3-20Y+3-16Y 8Y @100C/C 3-16Y
GRB16	300x750	3-20Y 2-12Y SKIN BAR 10Y @200C/C 3-20Y	3-20Y+3-16Y 2-12Y SKIN BAR 10Y @100C/C 3-20Y
GRB17	200x600	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-20Y 8Y @100C/C 3-16Y
GRB18	200x600	3-16Y 8Y @200C/C 2-20Y+2-20Y	3-16Y 8Y @100C/C 2-20Y
GRB19	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y 8Y @150C/C 2-12Y+1-16Y
GRB11a	200x375	2-12Y 8Y @200C/C 2-12Y	2-12Y 8Y @200C/C 2-12Y



TYPICAL SLAB LAYOUT

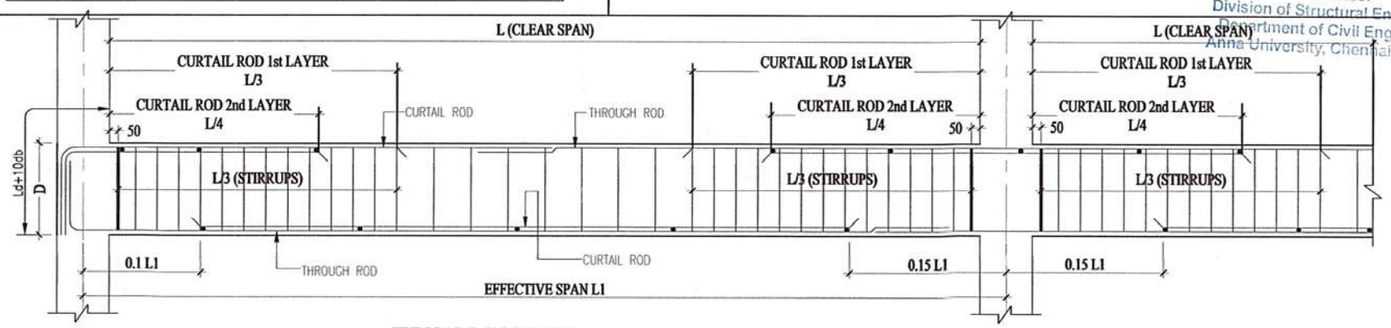
ROOF SLAB DETAILS				
TYPE	SLAB DEPTH	SLAB TYPE	REINFORCEMENT SHORTER	REINFORCEMENT LONGER
S1	125 THK.	TWO WAY	8Y @125C/C	8Y @150C/C
S2	150 THK.	ONE WAY	10Y @100C/C	8Y @230C/C
S3	125 THK.	TWO WAY (SUNKEN 75)	8Y @150C/C	8Y @150C/C
S4	150 THK.	TWO WAY	10Y @100C/C	10Y @125C/C
S5	125 THK.	TWO WAY	8Y @150C/C	8Y @150C/C
S6	125 THK.	ONE WAY	8Y @150C/C	8Y @230C/C
S7	125 THK.	TWO WAY	10Y @150C/C	10Y @150C/C
S8	150 THK.	TWO WAY	10Y @125C/C	10Y @150C/C
S9	175 THK.	TWO WAY	12Y @125C/C	12Y @150C/C
S10	135 THK.	TWO WAY	10Y @125C/C	10Y @150C/C



TYPICAL SHEAR REINFORCEMENT DETAILS

STILT FLOOR ROOF BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
GRB11a	200x375	2-12Y 8Y @200C/C 2-12Y	2-12Y 8Y @200C/C 2-12Y



TYPICAL L.S OF BEAM

GENERAL NOTES :

1. All dimensions are in millimeter.
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3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
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GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.RSE100482025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE
DRAWING NO : 1196-ST-S-11			DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK25, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
STILT FLOOR ROOF BEAM DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 50	DRAWN BY	NPK
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

22/7/25
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025



GENERAL NOTES :

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4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
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13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer 04-165213-8)
CMDA Regn. No. SE/GR-1/2024/03/013,
Greater Chennai Corporation, Regn. No.BSE/10048/2025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE
DRAWING NO : 1196-ST-S-10			DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK25, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

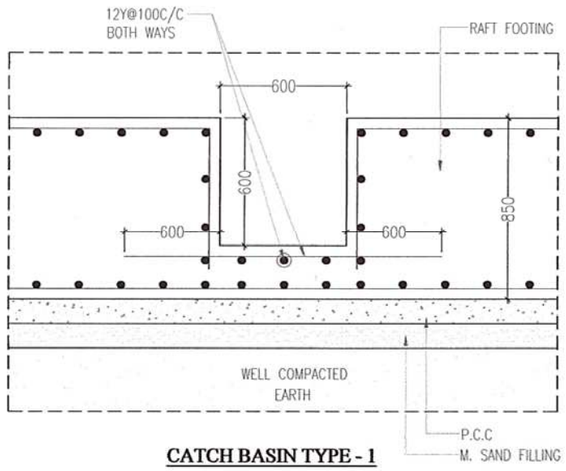
PROJECT TITLE:
PROPOSED CONSTRUCTION OF
MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD,
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
STILT FLOOR ROOF BEAM LAYOUT

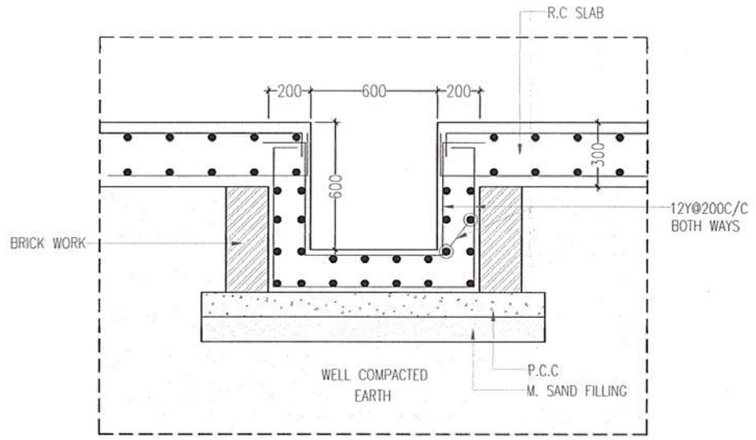
STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 90	DRAWN BY	NPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY		I.R.ARUNKUMAAR	

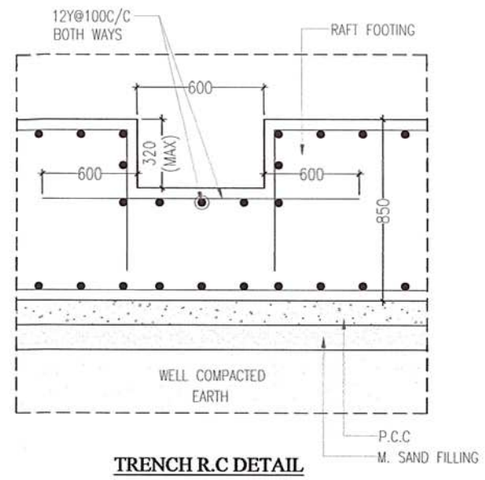
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.



CATCH BASIN TYPE - 1



CATCH BASIN TYPE - 2

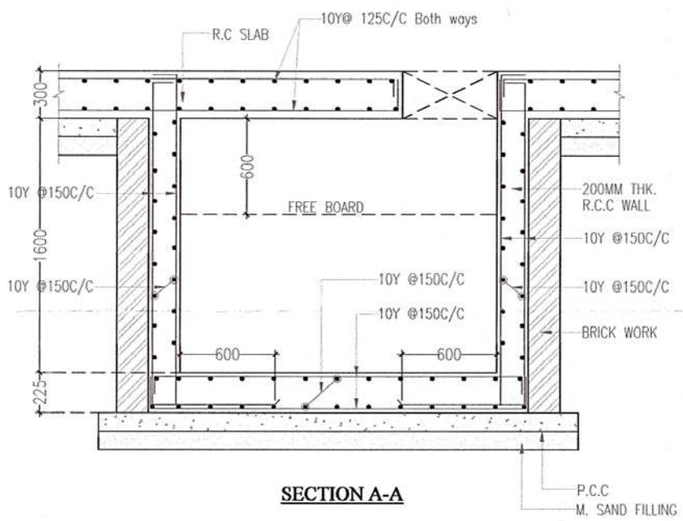


TRENCH R.C DETAIL

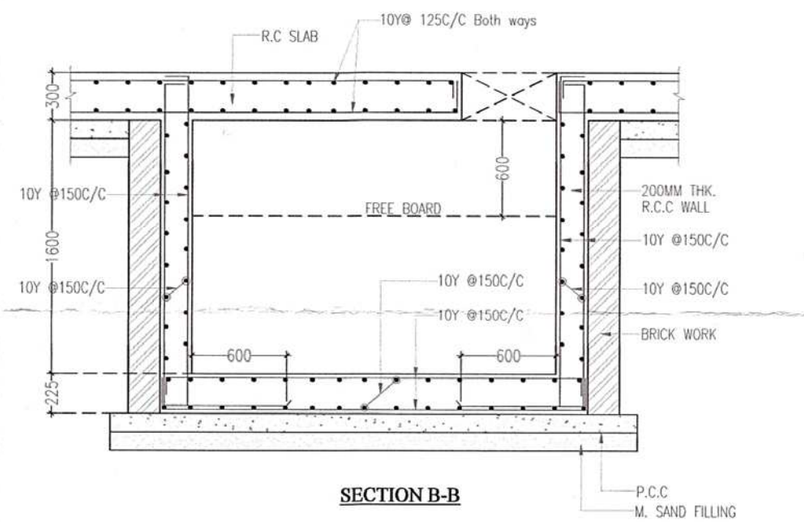
GENERAL NOTES :

1. All dimensions are in millimeter.
2. Concrete Mix : M30 grade
3. Raft foundation Concrete Mix : M40 grade
4. Steel grade : TMT Bars of Fe500D Conforming to IS 1786 - 2008.
5. Clear cover details :
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   Beam clear cover -25mm,
   Slab clear cover -20mm.
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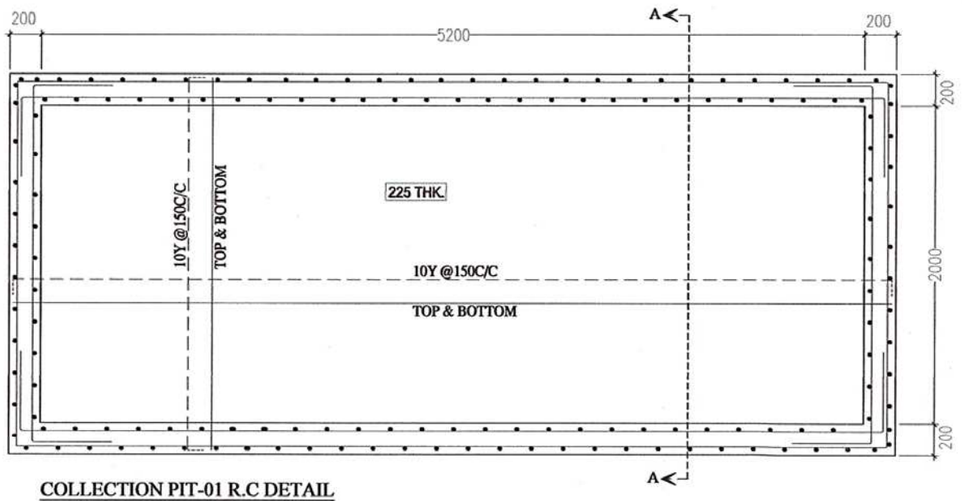
GOOD FOR CONSTRUCTION



SECTION A-A

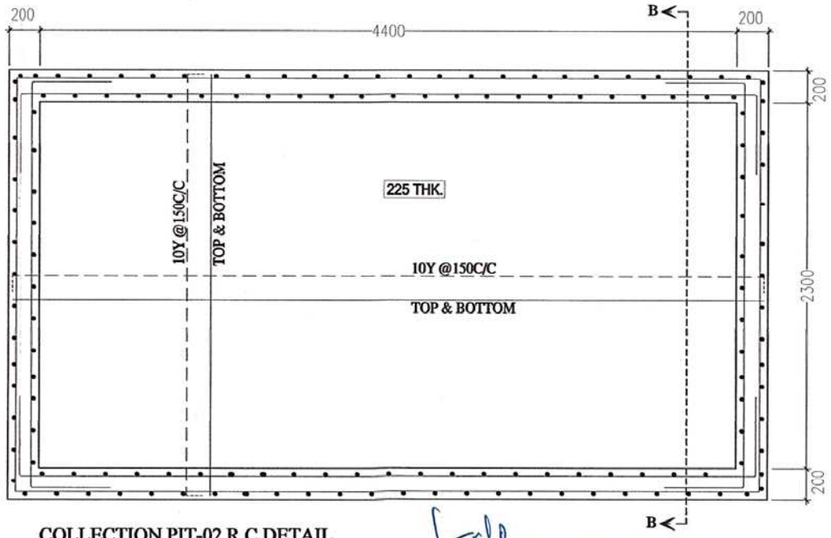


SECTION B-B



COLLECTION PIT-01 R.C DETAIL

BASE SLAB LAYOUT



COLLECTION PIT-02 R.C DETAIL

BASE SLAB LAYOUT

22.7.25
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.RSE100482025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE
DRAWING NO : 1196-ST-S-07			DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK25, 22TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD,
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
TRENCH , CATCH BASIN &
COLLECTION PIT R.C DETAIL

STRUCTURAL CONSULTANT:
AKR CONSULTANTS

Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

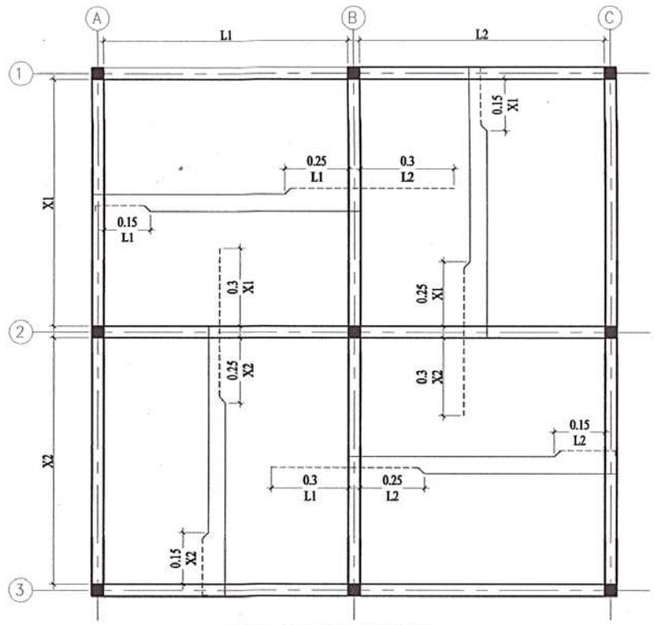
SCALE	1 : 50	DRAWN BY	NPK
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

TYPICAL FLOOR ROOF BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
TRB1	200x525	2-20Y 8Y @200C/C 2-16Y+1-20Y	2-20Y+ 2-25Y+2-25Y 8Y @100C/C 2-16Y+1-20Y
TRB2	200x450	2-20Y 8Y @150C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
TRB3	200x525	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-16Y+1-20Y
TRB4	200x525	2-20Y 8Y @200C/C 2-16Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-16Y
TRB5	200x600	2-25Y 10Y @200C/C 2-20Y+2-20Y	2-25Y+2-25Y+2-25Y 10Y @100C/C 2-20Y
TRB6	200x600	2-20Y 10Y @200C/C 2-20Y+2-25Y	2-20Y+2-25Y 10Y @100C/C 2-20Y
TRB7	200x525	2-20Y 8Y @150C/C 3-20Y	2-20Y+3-25Y 8Y @100C/C 3-20Y
TRB8	200x375	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+1-16Y 8Y @150C/C 2-16Y+1-20Y
TRB9	200x600	2-25Y 10Y @200C/C 2-20Y+2-25Y	2-25Y+2-25Y+2-25Y 10Y @100C/C 2-20Y
TRB10	200x375	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y 8Y @100C/C 2-20Y
TRB11	200x450	2-16Y 8Y @200C/C 2-16Y+2-20Y	2-16Y 8Y @100C/C 2-16Y

TYPICAL FLOOR ROOF BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
TRB12	200x600	2-25Y 8Y @150C/C 2-20Y+2-20Y	2-25Y+2-25Y 8Y @100C/C 2-20Y
TRB13	BEAM REMOVED		
TRB14	BEAM REMOVED		
TRB15	BEAM REMOVED		
TRB16	BEAM REMOVED		
TRB17	200x600	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-20Y 8Y @100C/C 3-16Y
TRB18	200x600	3-16Y 8Y @200C/C 2-20Y+2-20Y	3-16Y 8Y @100C/C 2-20Y
TRB19	200x450	2-16Y 8Y @150C/C 2-12Y+1-16Y	2-16Y+1-20Y 8Y @100C/C 2-12Y+1-16Y
TRB20	200x600	2-20Y 10Y @200C/C 2-20Y+2-20Y	2-20Y+2-25Y+2-25Y 10Y @100C/C 2-20Y
TRB21	200x450	2-16Y 8Y @200C/C 2-25Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-25Y
TRB22	200x525	2-25Y 8Y @200C/C 3-20Y	3-25Y+ 2-25Y 8Y @100C/C 3-20Y



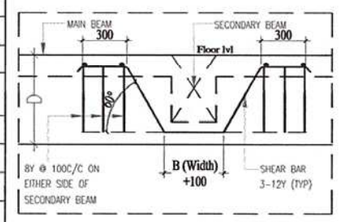
TYPICAL SLAB LAYOUT

TYPICAL FLOOR ROOF BEAM DETAILS

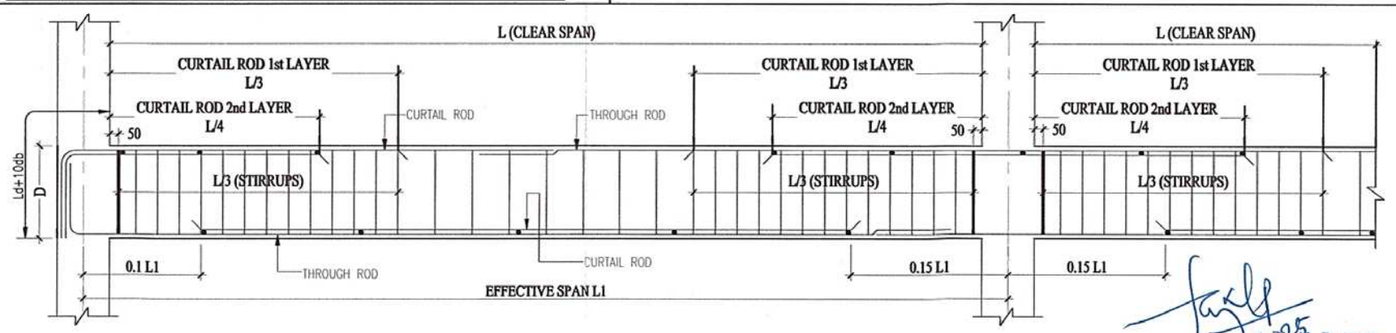
Type	Size BxD	AT MIDSPAN	AT SUPPORT
TRB11a	200x375	2-12Y 8Y @200C/C 2-12Y	2-12Y 8Y @200C/C 2-12Y

ROOF SLAB DETAILS

TYPE	SLAB DEPTH	SLAB TYPE	REINFORCEMENT	
			SHORTER	LONGER
S1	125 THK.	TWO WAY	8Y @125C/C	8Y @150C/C
S2	150 THK.	ONE WAY	10Y @100C/C	8Y @230C/C
S3	125 THK.	TWO WAY (SUNKEN 75)	8Y @150C/C	8Y @150C/C
S4	150 THK.	TWO WAY	10Y @100C/C	10Y @125C/C
S5	125 THK.	TWO WAY	8Y @150C/C	8Y @150C/C
S6	125 THK.	ONE WAY	8Y @150C/C	8Y @230C/C
S7	135 THK.	TWO WAY	10Y @100C/C	10Y @125C/C
S8	135 THK.	TWO WAY	10Y @125C/C	10Y @150C/C



TYPICAL SHEAR REINFORCEMENT DETAILS



TYPICAL L.S OF BEAM

GENERAL NOTES :

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12. Provide spacer bar at every 900 intervals
13. S.B.C of soil is taken as 200 kN/m² at 3.6m depth from NGL/EGL (as per soil)

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E., (Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M-165213-8)
CMDA Regn. No. SE/GR-I/2024/03/013,
Greater Chennai Corporation, Regn. No.RSE100482025,
No:10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196-ST-S-13 | DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK25, 22TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD, HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
TYPICAL FLOOR ROOF BEAM DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 50	DRAWN BY	NPK
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

22/7/2025
Dr. R. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025



GENERAL NOTES :

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Consulting Structural Engineer,
Chartered Civil Engineer 04-165213-8)
CMDA Regn. No. SE/GR-I/2024/031013,
Greater Chennai Corporation, Regn. No.BSE/10482/2025,
No.10, 9th St, 2nd Sector, K.K. Nagar, Chennai - 78

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1196-ST-S-12 DATE: 21-07-2025

CLIENT:
M/s. S R and Co
Hosur.

ARCHITECTS :
ARTID ARCHITECTS
#AK25, 11TH MAIN ROAD, ANNA NAGAR, CHENNAI - 600 040.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
MULTI STORIED RESIDENTIAL BUILDING AT THALLY ROAD,
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
TYPICAL FLOOR ROOF BEAM LAYOUT

N

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 90	DRAWN BY	NPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY		I.R.ARUNKUMAAR	

22/7/25
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

Verified RealEstate
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OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.