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RE REGULATORY RECORD

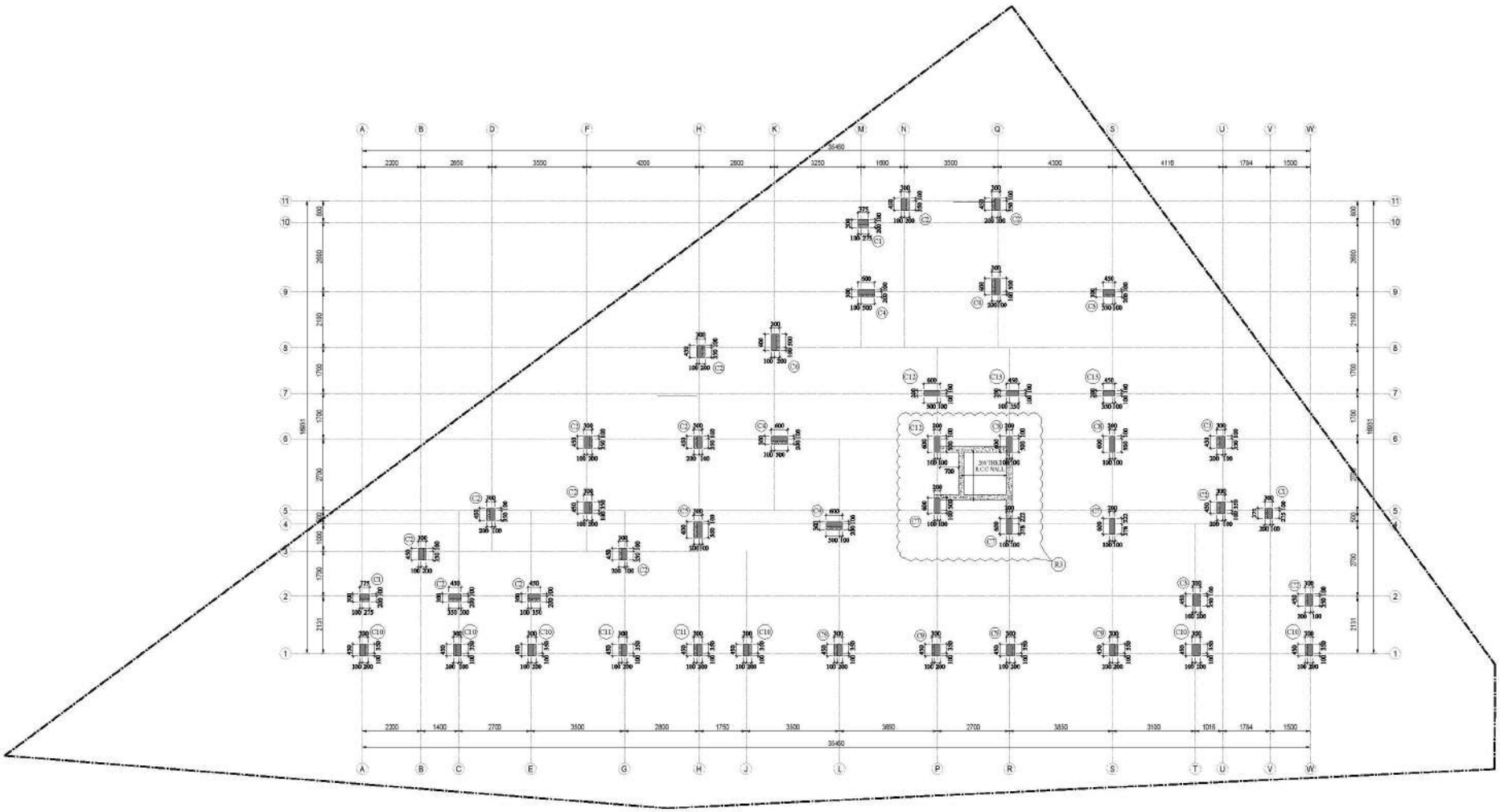
RERA Document

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Chennai 600 097, India

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GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : For Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
R3	LIFT SIZE DECREASED	VC	29-12-2025
R2	CLOGGED PORTION REVISED	VC	17-11-2025
R1	GENERALLY REVISED	VC	13-11-2025
DRAWING NO : 1536-ST-S-01			DATE: 05-11-2025

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

ARCHITECTS :
AR+ID
AR+ID ARCHITECTS

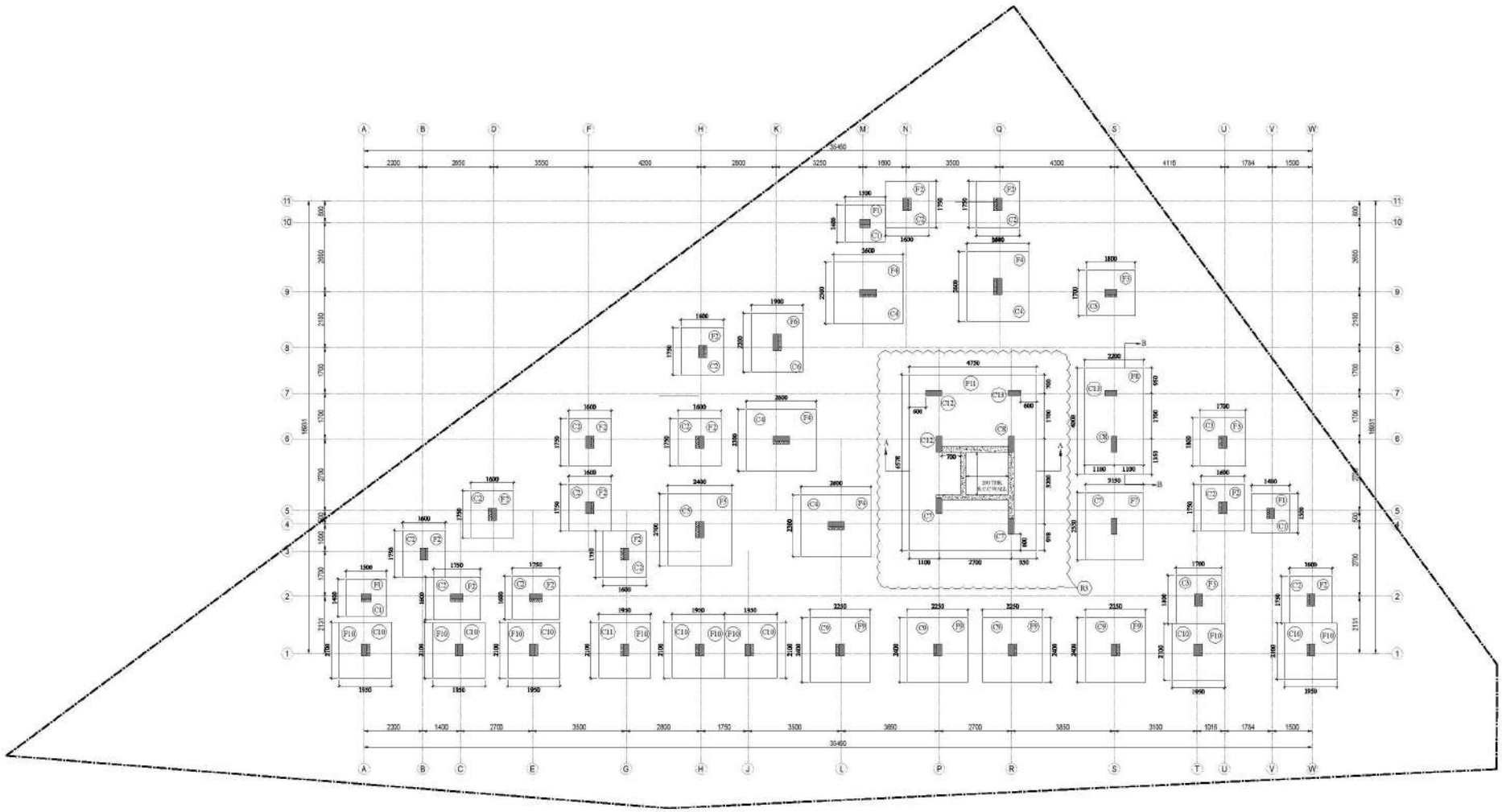
PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RAITHENE BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
COLUMN CENTER LINE LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R.ARUNKUMAAR, M.E.,
AKR CONSULTANTS,
NO.10, 9TH STREET,
2nd SECTOR, K.K.NAGAR,
CHENNAI - 600078.
email : info@akrconsultants.com
MOB : +91 99941 63341

SCALE	1 : 75	DRAWN BY	MPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY		Er.I.R.ARUNKUMAAR	

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
R3.	LIFT SIZE DECREASED	VC	29-12-2025
R2.	CLOUDED PORTION REVISED	VC	17-11-2025
R1	GENERALLY REVISED	VC	13-11-2025
DRAWING NO : 1536-ST-S-02			DATE: 05-11-2025

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

ARCHITECTS :
AR+ID
AR+ID ARCHITECTS
[illegible]

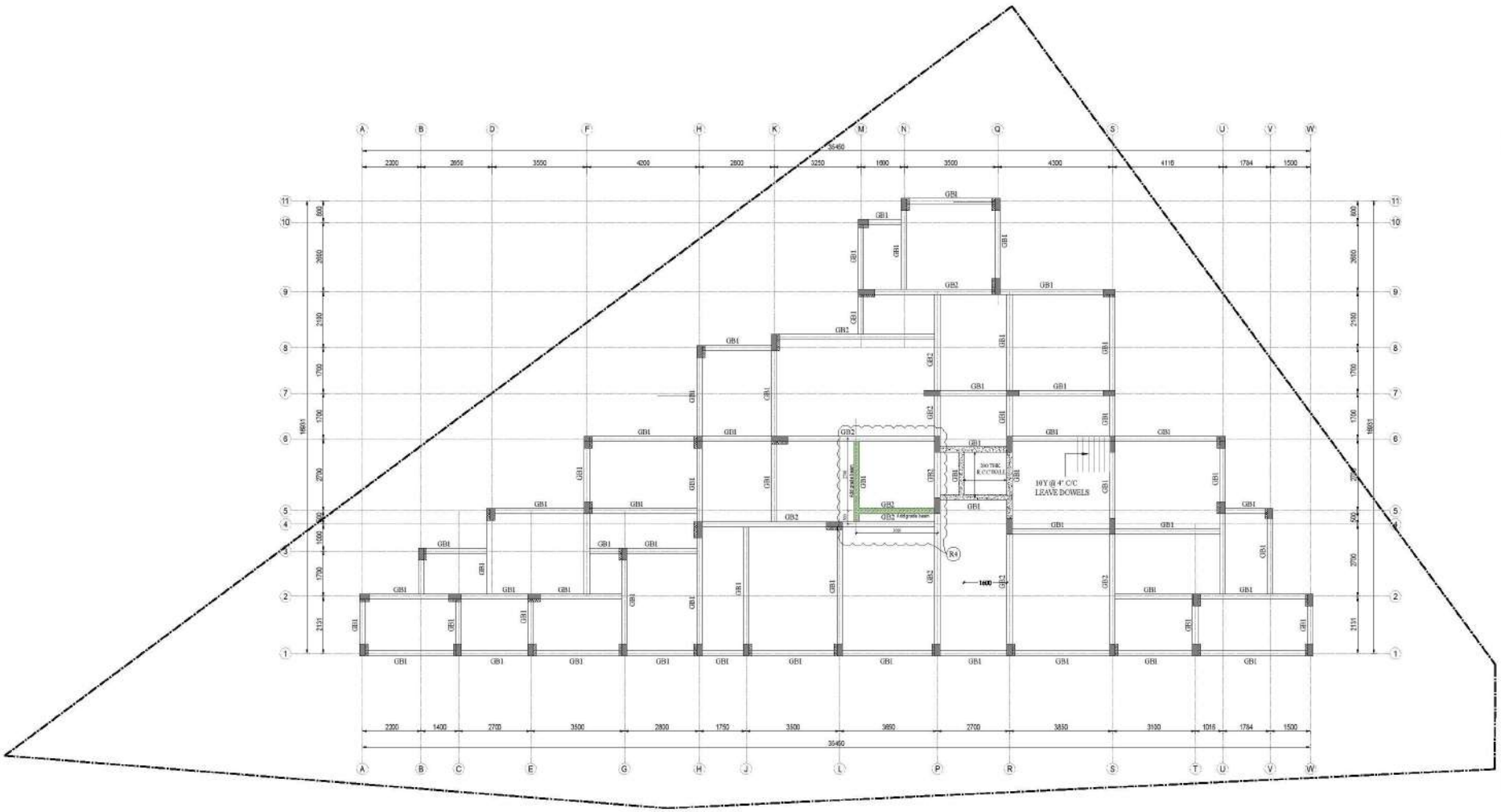
PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RESIDENTIAL BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
FOUNDATION LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
[illegible]

SCALE	1 : 75	DRAWN BY	MPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY		Er.ARRNKUMAAR	

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
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4) Clear cover : Footing= 50,
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   Beam = 25,
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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.

GOOD FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
R3.	LIFT SIZE DECREASED	VC	29-12-2025
R2.	GLOOMED PORTION REVISED	VC	17-11-2025
R1	GENERALLY REVISED	VC	13-11-2025
DRAWING NO :	1536-ST-S-03	DATE:	05-11-2025

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

ARCHITECTS :
AR+ID
AR+ID ARCHITECTS
[illegible]

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RESIDENTIAL BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
GRADE BEAM LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
[illegible]

SCALE	1 : 75	DRAWN BY	MPK
SHEET SIZE	A1	CHECKED BY	AKR
APPROVED BY		ER.ARRAMKUMAAR	

I. R. [illegible]

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C1	100 x 375 Stilt floor	300 / 375	● 6-12Y+ ● 3-12Y		8Y @150C/C
	200 x 375 Upper floors	200 / 375	● 6-12Y		
C2	100 x 450 Stilt floor	300 / 450	● 6-12Y+ ● 3-12Y		8Y @150C/C
	100 x 450 Upper floors	200 / 450	● 8-12Y		
C3	100 x 450 Stilt floor	300 / 450	● 8-16Y+ ● 3-12Y		8Y @150C/C
	100 x 450 First floor	200 / 450	● 8-16Y		
	100 x 450 Second floor	200 / 450	● 4-16Y+ ○ 4-12Y		
	100 x 450 Upper floors	200 / 450	● 8-12Y		
C4	100 x 600 Stilt floor	300 / 600	● 10-16Y+ ● 4-12Y		8Y @150C/C
	200 x 600 First floor	200 / 600	● 10-16Y		
	200 x 600 Second floor	200 / 600	● 6-16Y+ ○ 4-12Y		
	200 x 600 Upper floors	200 / 600	● 10-12Y		
C5	100 x 600 Stilt floor	300 / 600	● 4-25Y+ ○ 6-20Y+ ● 5-12Y		8Y @150C/C
	200 x 600 First floor	200 / 600	● 4-20Y+ ○ 6-16Y		

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C5	200 x 600 Second floor	200 / 600	● 4-20Y+ ○ 6-16Y		8Y @150C/C
	200 x 600 Third floor	200 / 600	● 4-16Y+ ○ 6-12Y		
	200 x 600 Fourth floor	200 / 600	● 10-12Y		
C6	300 x 600 Stilt floor	300 / 600	● 10-16Y+ ● 3-12Y		8Y @150C/C
	200 x 600 Upper floors	200 / 600	● 10-12Y		
U7	200 x 600 Stilt floor	200 / 600	● 10-20Y		8Y @150C/C
	200 x 600 First floor	200 / 600	● 8-20Y+ ○ 4-16Y		
	200 x 600 Second floor	200 / 600	● 10-16Y		
	200 x 600 Upper floors	200 / 600	● 10-12Y		
C8	200 x 600 All floors	200 / 600	● 10-12Y		8Y @150C/C

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C9	300 x 450 Stilt floor	300 / 450	● 4-25Y+ ○ 4-20Y+ ● 4-16Y		8Y @150C/C
	200 x 450 First floor	200 / 450	● 4-25Y+ ○ 4-20Y		
	200 x 450 Second floor	200 / 450	● 8-20Y		
	200 x 450 Upper floors	200 / 450	● 4-20Y+ ○ 4-16Y		
C10	300 x 450 Stilt floor	300 / 450	● 8-20Y+ ● 3-16Y		8Y @150C/C
	200 x 450 First floor	200 / 450	● 8-20Y		
	200 x 450 Second floor	200 / 450	● 4-20Y+ ○ 4-16Y		
	200 x 450 Upper floors	200 / 450	● 8-16Y		
C11	300 x 450 Stilt floor	300 / 450	● 8-16Y+ ● 3-16Y		8Y @150C/C
	200 x 450 First floor	200 / 450	● 8-16Y		
	200 x 450 Second floor	200 / 450	● 4-16Y+ ○ 4-12Y		
	200 x 450 Upper floors	200 / 450	● 8-12Y		

COLUMN DETAILS

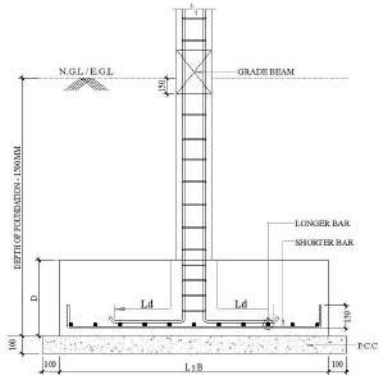
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C12	200 x 600 Stilt floor	200 / 600	● 6-16Y+ ○ 4-12Y		8Y @150C/C
	200 x 600 Upper floors	200 / 600	● 10-12Y		
C13	200 x 450 Upper floors	200 / 450	● 8-16Y		8Y @150C/C
	200 x 450 Stilt floor	200 / 450	● 4-16Y+ ○ 4-12Y		
	200 x 450 Upper floors	200 / 450	● 8-12Y		

FOOTING DETAILS

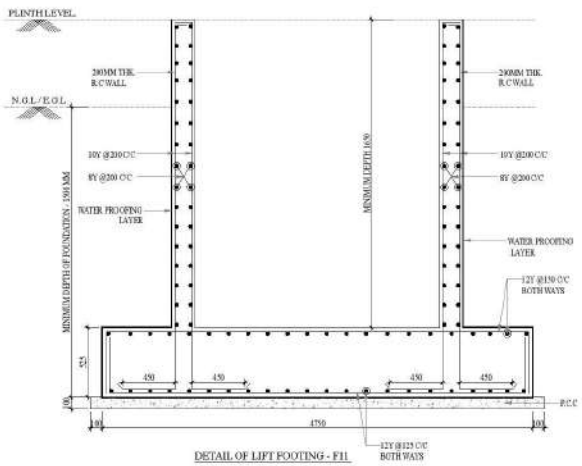
TYPE	SIZE LxB	D	REINFORCEMENT	
			BOTTOM	
			SHORTER	LONGER
F1	1500 x 1400	375	10Y @ 150C/C	10Y @ 150C/C
F2	1750 x 1600	450	10Y @ 150C/C	10Y @ 150C/C
F3	1850 x 1700	475	10Y @ 125C/C	10Y @ 125C/C
F4	2600 x 2300	600	12Y @ 115C/C	12Y @ 115C/C
F5	2700 x 2400	625	12Y @ 115C/C	12Y @ 115C/C
F6	2200 x 1900	525	10Y @ 100C/C	10Y @ 100C/C
F7	2550 x 2150	600	12Y @ 115C/C	12Y @ 115C/C
F8	4000 x 2200	550	DETAILED SEPERATELY	
F9	2400 x 2250	575	12Y @ 115C/C	12Y @ 115C/C
F10	2100 x 1950	500	10Y @ 100C/C	10Y @ 100C/C
F11	6578 x 4750 (LIFT)	525	12Y @ 125C/C AT BOTTOM 12Y @ 150C/C AT TOP	

GRADE BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GB1	200x375	2-12Y 8Y@200C/C 2-12Y+1-16Y	2-12Y+1-16Y 8Y@150C/C 2-12Y+1-16Y
GB2	200x450	2-12Y 8Y@200C/C 2-16Y+1-12Y	2-12Y+1-16Y 8Y@150C/C 2-16Y+1-12Y

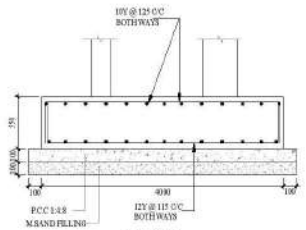


TYPICAL FOUNDATION DETAILS FOR R.C.C COLUMN



DETAIL OF LIFT FOOTING - F11

SECTION A-A



SECTION B-B

DETAIL OF FOOTING - F8

Er.I.RARUNKUMAAR.M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE
DRAWING NO : 1538-ST-S-04			DATE: 05-11-2025

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

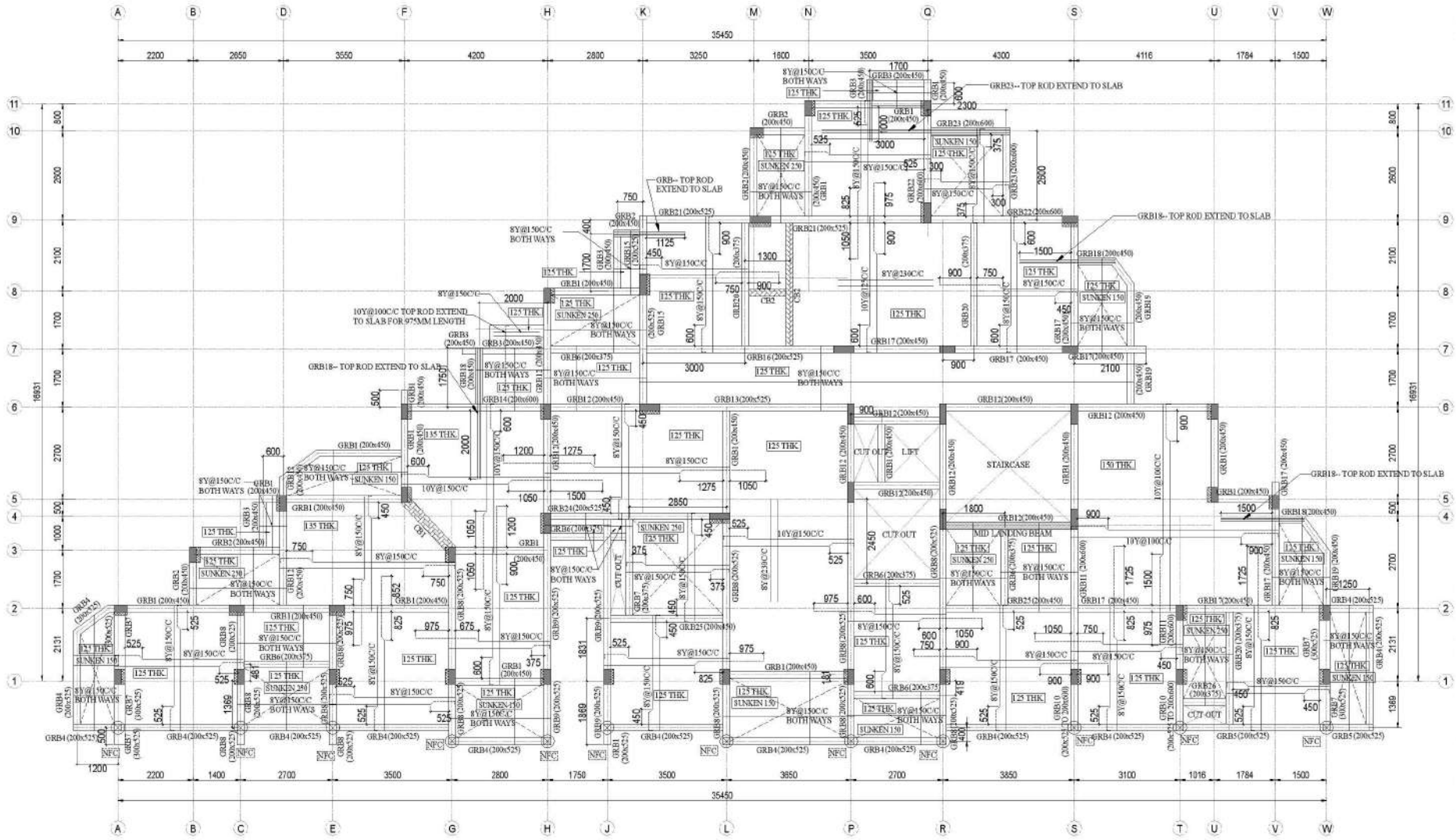
ARCHITECTS :
AR+ID ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RATNEVE BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
COLUMN, FOUNDATION & GRADE BEAM DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS

SCALE	1 : 50	DRAWN BY	MPK
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY		Er.AKRAMKUMAAR	



Er.I.RARUNKUMAAR, M.E.,(Structural), M.I.E.
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-1/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

GENERAL NOTES :

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   Minimum Cement content = 340kg/m³
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   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
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GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE

DRAWING NO : 1536-ST-S-05 DATE: 03-01-2026

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

ARCHITECTS :
AR+ID
ARTIS ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
APARTMENT BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
GROUND FLOOR ROOF BEAM & SLAB LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.P.ARUNKUMAAR,M.E.,
AKR COTTAGE,NO.10,9th STREET,
2nd SECTOR, K.K.NAGAR,
CHENNAI - 600 078.
email : info@akrconsultants.com
Mob : +91 9940165165

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY		ER.ARUNKUMAAR	

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB1	200x450	200 / 450: 2-12Y, 8Y @200C/C, 3-12Y	200 / 450: 2-12Y+1-16Y, 8Y @150C/C, 3-12Y
GRB2	200x450	200 / 450: 2-12Y, 8Y @200C/C, 3-12Y	200 / 450: 2-12Y+1-12Y, 8Y @150C/C, 3-12Y
GRB3	200x450	200 / 450: 2-12Y, 8Y @200C/C, 2-12Y	200 / 450: 2-12Y, 8Y @200C/C, 2-12Y
GRB4	200x525	200 / 525: 2-12Y, 8Y @200C/C, 2-12Y+1-16Y	200 / 525: 2-12Y+1-16Y, 8Y @150C/C, 2-12Y
GRB5	200x525	200 / 525: 2-12Y, 8Y @200C/C, 2-16Y+1-16Y	200 / 525: 2-12Y+1-16Y, 8Y @100C/C, 2-16Y
GRB6	200x375	200 / 375: 2-12Y, 8Y @200C/C, 3-12Y	200 / 375: 2-12Y, 8Y @150C/C, 3-12Y
GRB7	300x525	300 / 525: 3-25Y+3-25Y, 10Y @100C/C, 3-20Y	300 / 525: 3-25Y+3-25Y, 10Y @100C/C, 3-20Y

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB8	200x525	200 / 525: 2-20Y+2-25Y, 8Y @200C/C, 2-16Y+1-12Y	200 / 525: 2-20Y+2-25Y, 8Y @100C/C, 2-16Y+1-12Y
GRB9	200x525	200 / 525: 2-16Y+2-20Y, 8Y @150C/C, 2-12Y+1-16Y	200 / 525: 2-16Y+2-20Y, 8Y @100C/C, 2-12Y+1-16Y
GRB10	200x525 TO 200x600	200 / 600: 2-25Y+2-25Y, 8Y @100C/C, 3-16Y	200 / 600: 2-25Y+2-25Y, 8Y @100C/C, 3-16Y
GRB11	200x600	200 / 600: 2-25Y, 8Y @100C/C, 3-16Y	200 / 600: 2-25Y+2-25Y, 8Y @100C/C, 3-16Y
GRB12	200x450	200 / 450: 2-12Y, 8Y @200C/C, 2-12Y+1-16Y	200 / 450: 2-12Y+2-16Y, 8Y @150C/C, 2-12Y
GRB13	200x525	200 / 525: 2-12Y, 8Y @200C/C, 2-16Y+2-16Y	200 / 525: 2-12Y+3-16Y, 8Y @100C/C, 2-16Y

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB14	200x600	200 / 600: 2-12Y+1-16Y, 8Y @150C/C, 2-16Y+2-16Y	200 / 600: 2-12Y+3-16Y, 8Y @100C/C, 2-16Y
GRB15	200x525	200 / 525: 2-20Y+2-20Y, 8Y @200C/C, 3-16Y	200 / 525: 2-20Y+2-20Y, 8Y @100C/C, 3-16Y
GRB16	200x525	200 / 525: 2-16Y, 10Y @200C/C, 2-20Y+2-20Y	200 / 525: 2-16Y+4-20Y, 10Y @100C/C, 2-20Y
GRB17	200x450	200 / 450: 2-16Y, 8Y @200C/C, 2-12Y+1-16Y	200 / 450: 2-16Y+2-20Y, 8Y @150C/C, 2-12Y+1-16Y
GRB18	200x450 (TOP ROD EXTEND TO SLAB)	200 / 450: 2-16Y+2-16Y, 8Y @100C/C, 3-12Y	200 / 450: 2-16Y+2-16Y, 8Y @100C/C, 3-12Y
GRB19	200x450	200 / 450: 2-12Y, 8Y @200C/C, 3-12Y	200 / 450: 2-12Y, 8Y @200C/C, 3-12Y
GRB20	200x375	200 / 375: 2-12Y, 8Y @200C/C, 2-16Y+1-16Y	200 / 375: 2-12Y, 8Y @150C/C, 2-16Y

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB21	200x525	200 / 525: 2-16Y, 8Y @200C/C, 2-16Y+1-12Y	200 / 525: 2-16Y+2-16Y, 8Y @150C/C, 2-16Y
GRB22	200x600	200 / 600: 2-16Y, 8Y @150C/C, 2-16Y+1-12Y	200 / 600: 2-16Y+2-16Y, 8Y @100C/C, 2-16Y+1-12Y
GRB23	200x600 (TOP ROD EXTEND TO SLAB)	200 / 600: 3-16Y+3-16Y, 8Y @100C/C, 3-16Y	200 / 600: 3-16Y+3-16Y, 8Y @100C/C, 3-16Y
GRB24	200x525	200 / 525: 2-16Y, 8Y @200C/C, 2-16Y+1-20Y	200 / 525: 2-16Y+2-16Y, 8Y @100C/C, 2-16Y
GRB25	200x450	200 / 450: 2-12Y, 8Y @200C/C, 2-16Y+1-16Y	200 / 450: 2-12Y, 8Y @150C/C, 2-16Y
GRB26	200x375	200 / 375: 2-12Y, 8Y @150C/C, 2-12Y	200 / 375: 2-12Y, 8Y @150C/C, 2-12Y



DETAIL OF NFC-1



DETAIL OF CB-1

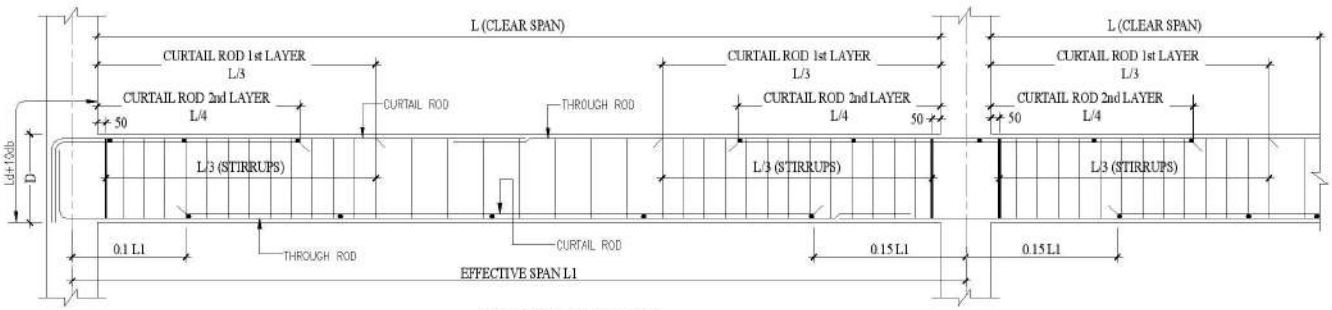


DETAIL OF CB-2

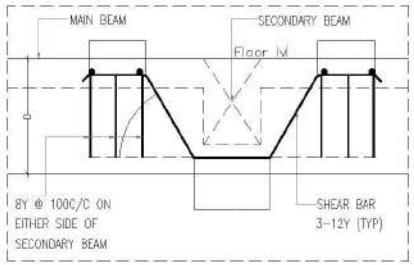
GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
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5) Lap length
   Compression (Column) : 45 Ø
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6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

I.R. Arunkumaar

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CCLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

REV	DESCRIPTION	BY	DATE

DRAWING NO : 1526-ST-S-05 DATE: 23-01-2026

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

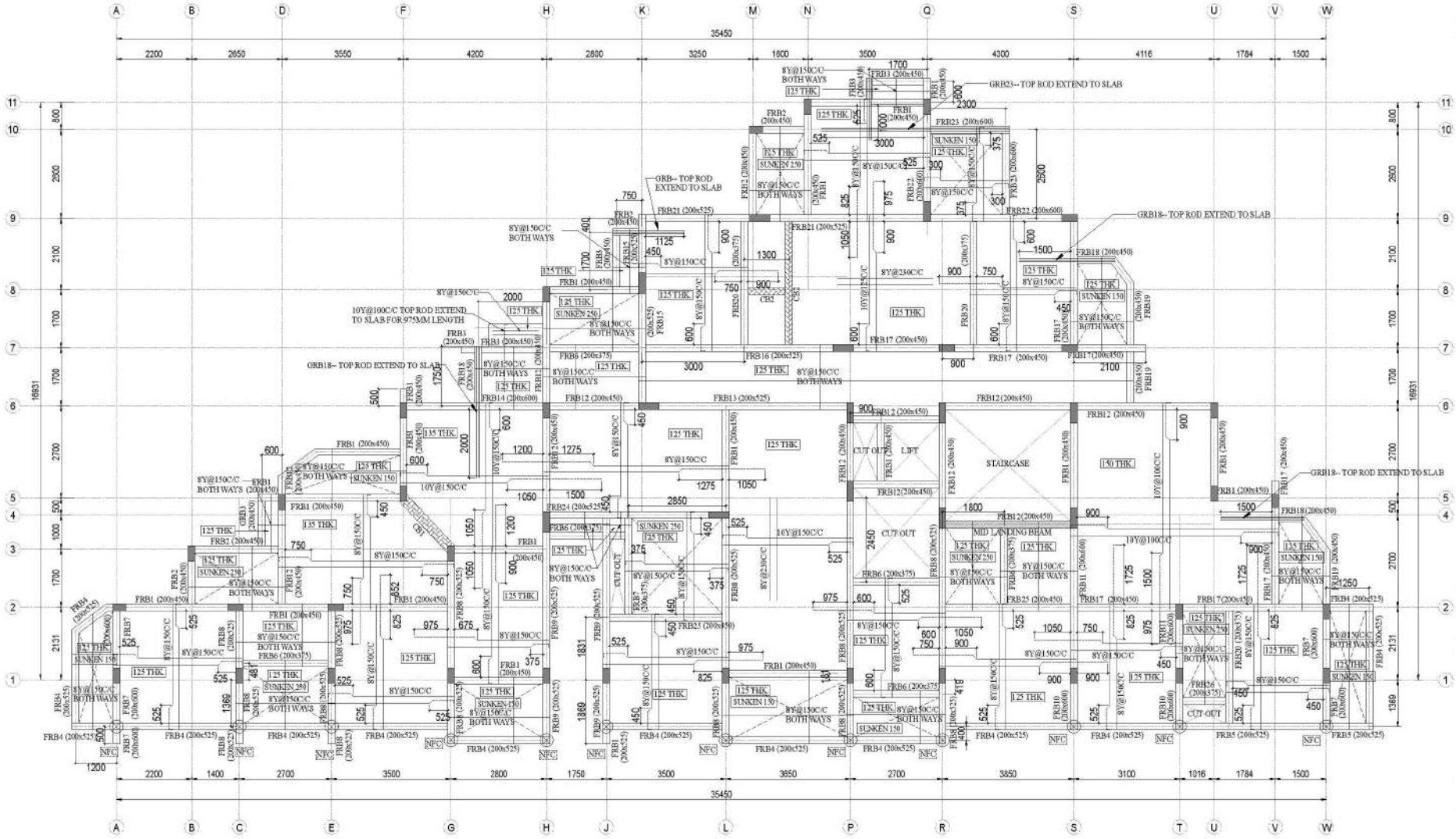
ARCHITECTS : ARTID ARCHITECTS

PROJECT TITLE: PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT HOSUR TOWN @ TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE: GROUND FLOOR ROOF BEAM DETAILS

STRUCTURAL CONSULTANT: AKR CONSULTANTS
Er.I.R.ARUNKUMAAR, M.E.,M.I.E.
AKR CONSULTANTS
NO:6, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078
MAIL : info@akrconsultants.com
MOB : +91 99941 62046

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



I.R. Arunkumaar

Er.I.RARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-1/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE

DRAWING NO : 1536-ST-S-07 DATE: 03-01-2026

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

ARCHITECTS :
AR+ID ARTHI ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RESIDENCE BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
FIRST FLOOR ROOF BEAM & SLAB LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.P.ARUNKUMAAR,M.E.,M.I.E.
AKR COLLEGE ANTS
NO.2 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : info@akrconsultants.com
Mob : +91 9994165165

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY		ER.ARUNKUMAAR	

FIRST FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB1	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y+1-16Y 8Y @150C/C 3-12Y
FRB2	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y+1-12Y 8Y @150C/C 3-12Y
FRB3	200x450	2-12Y 8Y @200C/C 2-12Y	2-12Y 8Y @200C/C 2-12Y
FRB4	200x525	2-12Y 8Y @200C/C 2-12Y+1-16Y	2-12Y+1-16Y 8Y @150C/C 2-12Y
FRB5	200x525	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+1-16Y 8Y @100C/C 2-16Y
FRB6	200x375	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @150C/C 3-12Y
FRB7	300x525	3-25Y+3-25Y 10Y @100C/C 3-20Y	3-25Y+3-25Y 10Y @100C/C 3-20Y

FIRST FLOOR ROOF BEAM DETAILS

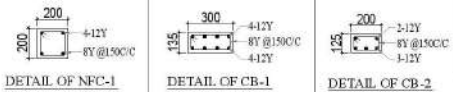
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB8	200x525	2-20Y+2-25Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-25Y 8Y @100C/C 2-16Y+1-12Y
FRB9	200x525	2-16Y+2-20Y 8Y @150C/C 2-12Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-12Y+1-16Y
FRB10	200x525 TO 200x600	2-25Y+2-25Y 8Y @100C/C 3-16Y	2-25Y+2-25Y 8Y @100C/C 3-16Y
FRB11	200x600	2-25Y 8Y @100C/C 3-16Y	2-25Y+2-25Y 8Y @100C/C 3-16Y
FRB12	200x450	2-12Y 8Y @200C/C 2-12Y+1-16Y	2-12Y+2-16Y 8Y @150C/C 2-12Y
FRB13	200x525	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y+3-16Y 8Y @100C/C 2-16Y

FIRST FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB14	200x600	2-12Y+1-16Y 8Y @150C/C 2-16Y+2-16Y	2-12Y+3-16Y 8Y @100C/C 2-16Y
FRB15	200x525	2-20Y+2-20Y 8Y @200C/C 3-16Y	2-20Y+2-20Y 8Y @100C/C 3-16Y
FRB16	200x525	2-16Y 10Y @200C/C 2-20Y+2-20Y	2-16Y+4-20Y 10Y @100C/C 2-20Y
FRB17	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-20Y 8Y @150C/C 2-12Y+1-16Y
FRB18	200x450 (TOP ROD EXTEND TO SLAB)	2-16Y+2-16Y 8Y @100C/C 3-12Y	2-16Y+2-16Y 8Y @100C/C 3-12Y
FRB19	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
FRB20	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y

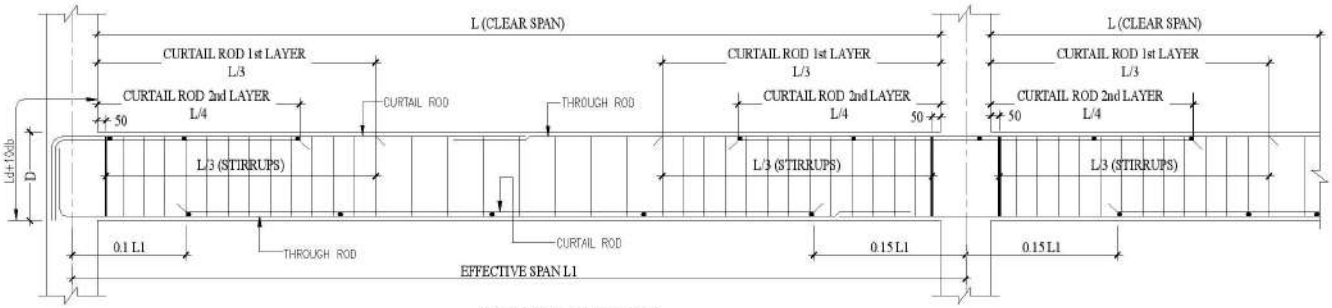
FIRST FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB21	200x525	2-16Y 8Y @200C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @150C/C 2-16Y
FRB22	200x600	2-16Y 8Y @150C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @100C/C 2-16Y+1-12Y
FRB23	200x600 (TOP ROD EXTEND TO SLAB)	3-16Y+3-16Y 8Y @100C/C 3-16Y	3-16Y+3-16Y 8Y @100C/C 3-16Y
FRB24	200x525	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
FRB25	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
FRB26	200x375	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y

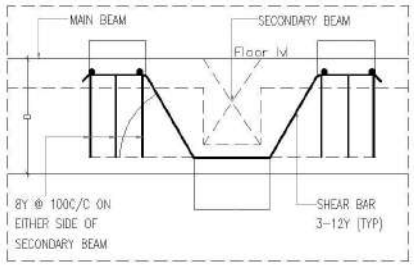


DETAIL OF NFC-1 | DETAIL OF CB-1 | DETAIL OF CB-2

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
DRAWING NO :	1526-ST-S-08	DATE :	23-01-2026

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

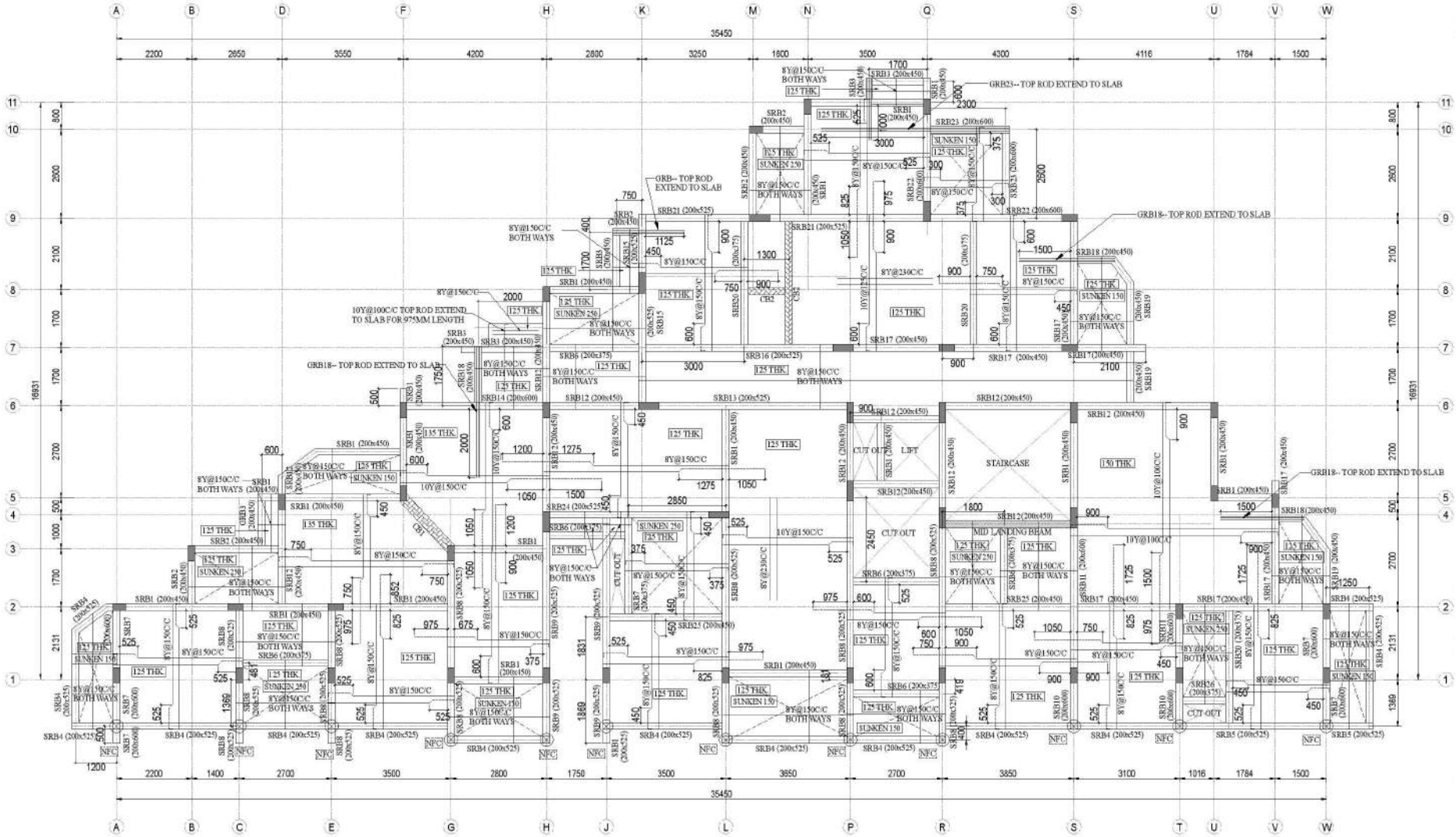
ARCHITECTS :
ARTID ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT HOSUR TOWN @ TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
FIRST 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
MAIL : info@akrconsultants.com
MOB : +91 99401 62046

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



I.R.Arul

Er.I.RARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE

DRAWING NO : 1536-ST-S-09 DATE: 03-01-2026

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

ARCHITECTS :
AR+ID ARTIS ARCHITECTS
Krishnagiri Main Road, Ashok Nagar, Chennai - Hosur

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RESIDENCE BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
SECOND FLOOR ROOF BEAMS, SLAB LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.P.ARUNKUMAAR,M.E.,M.I.E.
A-69, CHOLLE ANTS
NO.2, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600 078.
email : info@akrconsultants.com
Mob : +91 9940165165

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY		ER.ARUNKUMAAR	

SECOND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB1	200x450	2-12Y / 8Y @200C/C / 3-12Y	2-12Y+1-16Y / 8Y @150C/C / 3-12Y
SRB2	200x450	2-12Y / 8Y @200C/C / 3-12Y	2-12Y+1-12Y / 8Y @150C/C / 3-12Y
SRB3	200x450	2-12Y / 8Y @200C/C / 2-12Y	2-12Y / 8Y @200C/C / 2-12Y
SRB4	200x525	2-12Y / 8Y @200C/C / 2-12Y+1-16Y	2-12Y+1-16Y / 8Y @150C/C / 2-12Y
SRB5	200x525	2-12Y / 8Y @200C/C / 2-16Y+1-16Y	2-12Y+1-16Y / 8Y @100C/C / 2-16Y
SRB6	200x375	2-12Y / 8Y @200C/C / 3-12Y	2-12Y / 8Y @150C/C / 3-12Y
SRB7	300x525	3-25Y+3-25Y / 10Y @100C/C / 3-20Y	3-25Y+3-25Y / 10Y @100C/C / 3-20Y

SECOND FLOOR ROOF BEAM DETAILS

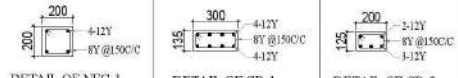
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB8	200x525	2-20Y+2-25Y / 8Y @200C/C / 2-16Y+1-12Y	2-20Y+2-25Y / 8Y @100C/C / 2-16Y+1-12Y
SRB9	200x525	2-16Y+2-20Y / 8Y @150C/C / 2-12Y+1-16Y	2-16Y+2-20Y / 8Y @100C/C / 2-12Y+1-16Y
SRB10	200x525 TO 200x600	2-25Y+2-25Y / 8Y @100C/C / 3-16Y	2-25Y+2-25Y / 8Y @100C/C / 3-16Y
SRB11	200x600	2-25Y / 8Y @100C/C / 3-16Y	2-25Y+2-25Y / 8Y @100C/C / 3-16Y
SRB12	200x450	2-12Y / 8Y @200C/C / 2-12Y+1-16Y	2-12Y+2-16Y / 8Y @150C/C / 2-12Y
SRB13	200x525	2-12Y / 8Y @200C/C / 2-16Y+2-16Y	2-12Y+3-16Y / 8Y @100C/C / 2-16Y

SECOND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB14	200x600	2-12Y+1-16Y / 8Y @150C/C / 2-16Y+2-16Y	2-12Y+3-16Y / 8Y @100C/C / 2-16Y
SRB15	200x525	2-20Y+2-20Y / 8Y @200C/C / 3-16Y	2-20Y+2-20Y / 8Y @100C/C / 3-16Y
SRB16	200x525	2-16Y / 10Y @200C/C / 2-20Y+2-20Y	2-16Y+4-20Y / 10Y @100C/C / 2-20Y
SRB17	200x450	2-16Y / 8Y @200C/C / 2-12Y+1-16Y	2-16Y+2-20Y / 8Y @150C/C / 2-12Y+1-16Y
SRB18	200x450 (TOP ROD EXTEND TO SLAB)	2-16Y+2-16Y / 8Y @100C/C / 3-12Y	2-16Y+2-16Y / 8Y @100C/C / 3-12Y
SRB19	200x450	2-12Y / 8Y @200C/C / 3-12Y	2-12Y / 8Y @200C/C / 3-12Y
SRB20	200x375	2-12Y / 8Y @200C/C / 2-16Y+1-16Y	2-12Y / 8Y @150C/C / 2-16Y

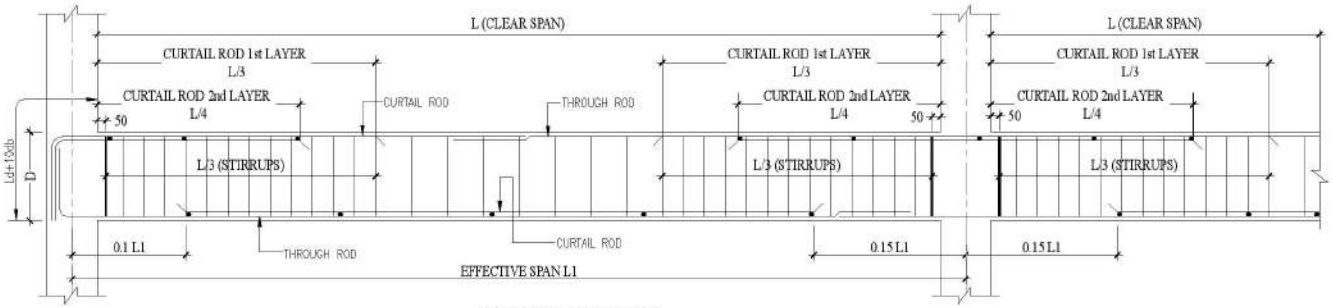
SECOND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB21	200x525	2-16Y / 8Y @200C/C / 2-16Y+1-12Y	2-16Y+2-16Y / 8Y @150C/C / 2-16Y
SRB22	200x600	2-16Y / 8Y @150C/C / 2-16Y+1-12Y	2-16Y+2-16Y / 8Y @100C/C / 2-16Y+1-12Y
SRB23	200x600 (TOP ROD EXTEND TO SLAB)	3-16Y+3-16Y / 8Y @100C/C / 3-16Y	3-16Y+3-16Y / 8Y @100C/C / 3-16Y
SRB24	200x525	2-16Y / 8Y @200C/C / 2-16Y+1-20Y	2-16Y+2-16Y / 8Y @100C/C / 2-16Y
SRB25	200x450	2-12Y / 8Y @200C/C / 2-16Y+1-16Y	2-12Y / 8Y @150C/C / 2-16Y
SRB26	200x375	2-12Y / 8Y @150C/C / 2-12Y	2-12Y / 8Y @150C/C / 2-12Y

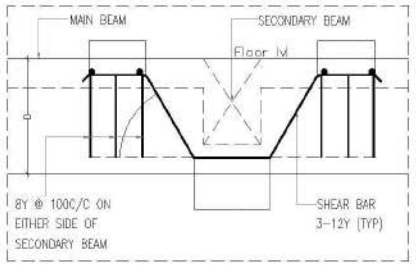


DETAIL OF NFC-1 | DETAIL OF CB-1 | DETAIL OF CB-2

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-1/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE

DRAWING NO : 1526-ST-S-10 | DATE: 23-01-2026

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

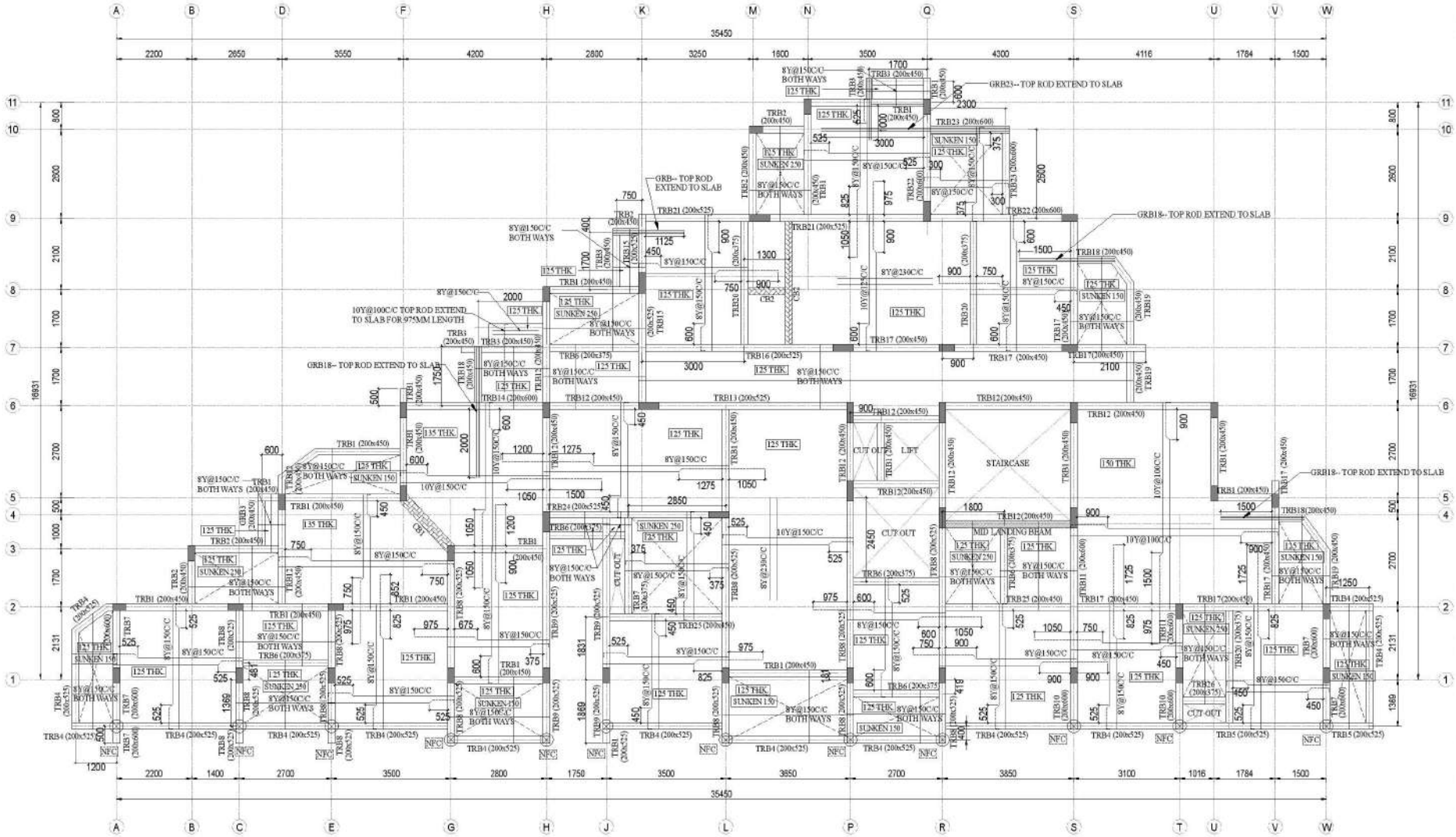
ARCHITECTS : ARTID ARCHITECTS

PROJECT TITLE: PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT HOSUR TOWN @ TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE: SECOND 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.
MAIL : info@akrconsultants.com
MOB : +91 99941 63046

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			ER.ARUNKUMAAR



GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

Er.I.RARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

REV	DESCRIPTION	BY	DATE
DRAWING NO :	R36-ST-S-11	DATE:	03-01-2026

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

ARCHITECTS :
AR+ID ARTIS ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF A RESIDENCE BUILDING AT HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
THIRD FLOOR ROOF BEAM & SLAB LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.P.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 9994168166

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY		Er.I.ARUNKUMAAR	

THIRD FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB1	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y+1-16Y 8Y @150C/C 3-12Y
TRB2	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y+1-12Y 8Y @150C/C 3-12Y
TRB3	200x450	2-12Y 8Y @200C/C 2-12Y	2-12Y 8Y @200C/C 2-12Y
TRB4	200x525	2-12Y 8Y @200C/C 2-12Y+1-16Y	2-12Y+1-16Y 8Y @150C/C 2-12Y
TRB5	200x525	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+1-16Y 8Y @100C/C 2-16Y
TRB6	200x375	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @150C/C 3-12Y
TRB7	300x525	3-25Y+3-25Y 10Y @100C/C 3-20Y	3-25Y+3-25Y 10Y @100C/C 3-20Y

THIRD FLOOR ROOF BEAM DETAILS

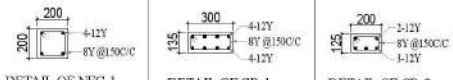
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB8	200x525	2-20Y+2-25Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-25Y 8Y @100C/C 2-16Y+1-12Y
TRB9	200x525	2-16Y+2-20Y 8Y @150C/C 2-12Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-12Y+1-16Y
TRB10	200x525 TO 200x600	2-25Y+2-25Y 8Y @100C/C 3-16Y	2-25Y+2-25Y 8Y @100C/C 3-16Y
TRB11	200x600	2-25Y 8Y @100C/C 3-16Y	2-25Y+2-25Y 8Y @100C/C 3-16Y
TRB12	200x450	2-12Y 8Y @200C/C 2-12Y+1-16Y	2-12Y+2-16Y 8Y @150C/C 2-12Y
TRB13	200x525	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y+3-16Y 8Y @100C/C 2-16Y

THIRD FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB14	200x600	2-12Y+1-16Y 8Y @150C/C 2-16Y+2-16Y	2-12Y+3-16Y 8Y @100C/C 2-16Y
TRB15	200x525	2-20Y+2-20Y 8Y @200C/C 3-16Y	2-20Y+2-20Y 8Y @100C/C 3-16Y
TRB16	200x525	2-16Y 10Y @200C/C 2-20Y+2-20Y	2-16Y+4-20Y 10Y @100C/C 2-20Y
TRB17	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-20Y 8Y @150C/C 2-12Y+1-16Y
TRB18	200x450 (TOP ROD EXTEND TO SLAB)	2-16Y+2-16Y 8Y @100C/C 3-12Y	2-16Y+2-16Y 8Y @100C/C 3-12Y
TRB19	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
TRB20	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y

THIRD FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB21	200x525	2-16Y 8Y @200C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @150C/C 2-16Y
TRB22	200x600	2-16Y 8Y @150C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @100C/C 2-16Y+1-12Y
TRB23	200x600 (TOP ROD EXTEND TO SLAB)	3-16Y+3-16Y 8Y @100C/C 3-16Y	3-16Y+3-16Y 8Y @100C/C 3-16Y
TRB24	200x525	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
TRB25	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
TRB26	200x375	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y



DETAIL OF NFC-1

DETAIL OF CB-1

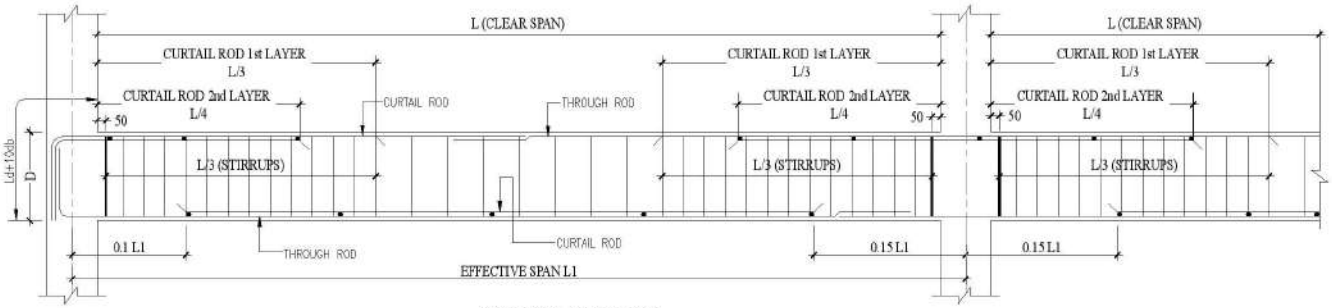
DETAIL OF CB-2

GENERAL NOTES :

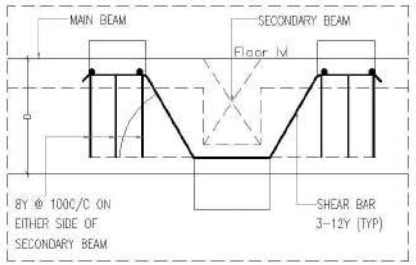
1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-1/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

REV	DESCRIPTION	BY	DATE
DRAWING NO :	1526-ST-S-12	DATE:	23-01-2026

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

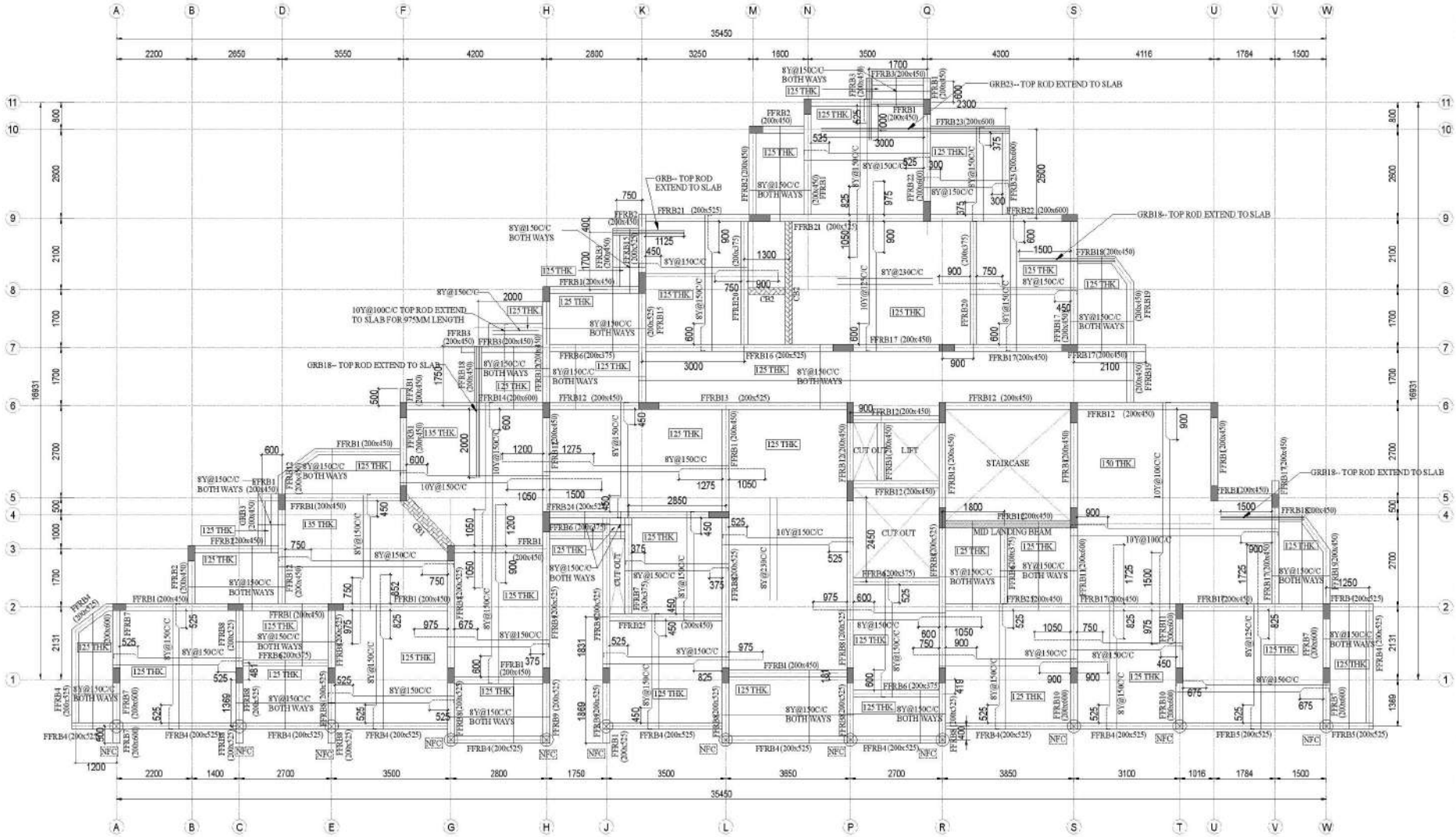
ARCHITECTS : ARTID ARCHITECTS

PROJECT TITLE: PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT HOSUR TOWN @ TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE: THIRD FLOOR ROOF BEAM DETAILS

STRUCTURAL CONSULTANT: AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS,
NO:6, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
MAIL : info@akrconsultants.com
MOB : +91 9994165046

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			ER.ARUNKUMAAR



I. R. Arun

Er.I.RARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-I/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : For Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE

DRAWING NO : 1536-ST-S-13 DATE: 03-01-2026

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

ARCHITECTS :
ARTID ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF
A RESIDENCE BUILDING AT
HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
FOURTH FLOOR ROOF BEAM & SLAB LAYOUT

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.P.ARUNKUMAAR, M.E.,
AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR,
CHENNAI - 600 078.
email : info@akrconsultants.com
Mob : +91 9940165165

SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY		Er.I.ARUNKUMAAR	

FOURTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB1	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y+1-16Y 8Y @150C/C 3-12Y
FFRB2	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y+1-12Y 8Y @150C/C 3-12Y
FFRB3	200x450	2-12Y 8Y @200C/C 2-12Y	2-12Y 8Y @200C/C 2-12Y
FFRB4	200x525	2-12Y 8Y @200C/C 2-12Y+1-16Y	2-12Y+1-16Y 8Y @150C/C 2-12Y
FFRB5	200x525	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+1-16Y 8Y @100C/C 2-16Y
FFRB6	200x375	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @150C/C 3-12Y
FFRB7	300x525	3-25Y+3-25Y 10Y @100C/C 3-20Y	3-25Y+3-25Y 10Y @100C/C 3-20Y

FOURTH FLOOR ROOF BEAM DETAILS

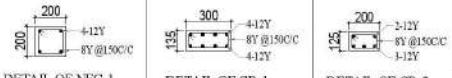
TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB8	200x525	2-20Y+2-25Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-25Y 8Y @100C/C 2-16Y+1-12Y
FFRB9	200x525	2-16Y+2-20Y 8Y @150C/C 2-12Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-12Y+1-16Y
FFRB10	200x525 TO 200x600	2-25Y+2-25Y 8Y @100C/C 3-16Y	2-25Y+2-25Y 8Y @100C/C 3-16Y
FFRB11	200x600	2-25Y 8Y @100C/C 3-16Y	2-25Y+2-25Y 8Y @100C/C 3-16Y
FFRB12	200x450	2-12Y 8Y @200C/C 2-12Y+1-16Y	2-12Y+2-16Y 8Y @150C/C 2-12Y
FFRB13	200x525	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y+3-16Y 8Y @100C/C 2-16Y

FOURTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB14	200x600	2-12Y+1-16Y 8Y @150C/C 2-16Y+2-16Y	2-12Y+3-16Y 8Y @100C/C 2-16Y
FFRB15	200x525	2-20Y+2-20Y 8Y @200C/C 3-16Y	2-20Y+2-20Y 8Y @100C/C 3-16Y
FFRB16	200x525	2-16Y 10Y @200C/C 2-20Y+2-20Y	2-16Y+4-20Y 10Y @100C/C 2-20Y
FFRB17	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-20Y 8Y @150C/C 2-12Y+1-16Y
FFRB18	200x450 (TOP ROD EXTEND TO SLAB)	2-16Y+2-16Y 8Y @100C/C 3-12Y	2-16Y+2-16Y 8Y @100C/C 3-12Y
FFRB19	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
FFRB20	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y

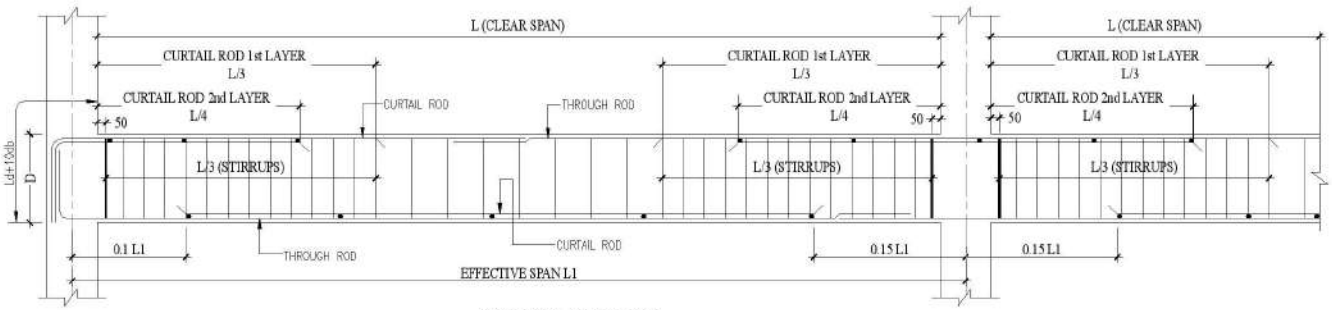
FOURTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FFRB21	200x525	2-16Y 8Y @200C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @150C/C 2-16Y
FFRB22	200x600	2-16Y 8Y @150C/C 2-16Y+1-12Y	2-16Y+2-16Y 8Y @100C/C 2-16Y+1-12Y
FFRB23	200x600 (TOP ROD EXTEND TO SLAB)	3-16Y+3-16Y 8Y @100C/C 3-16Y	3-16Y+3-16Y 8Y @100C/C 3-16Y
FFRB24	200x525	2-16Y 8Y @200C/C 2-16Y+1-20Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
FFRB25	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
FFRB26	200x375	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y

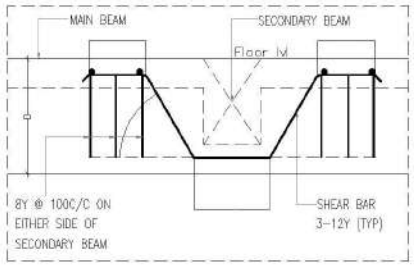


DETAIL OF NFC-1 | DETAIL OF CB-1 | DETAIL OF CB-2

Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-1/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All dimensions are in Millimeters.
2) Concrete Grade = M25
   Minimum Cement content = 340kg/m³
3) Steel Grade : Tor Fe-500
4) Clear cover : Footing= 50,
   R.c.c Wall = 25,
   Column Cover To The Main Reinforcement = 40,
   Beam = 25,
   Slab = 20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) Provide spacer bar at every 3'0" intervals
7) The column center should coincide with center of footing.
8) The column & foundation are designed for Stilt + 4 floors only.
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.

GOOD FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
DRAWING NO :	1526-ST-S-14	DATE :	23-01-2026

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

ARCHITECTS :
ARTID ARCHITECTS

PROJECT TITLE:
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT HOSUR TOWN @ TALUK, KRISHNAGIRI DISTRICT.

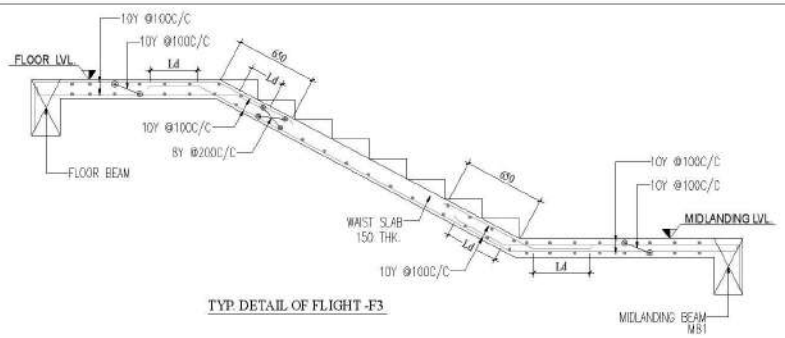
DRAWING TITLE:
FOURTH FLOOR ROOF BEAM DETAILS

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.
MAIL : info@akrconsultants.com
MOB : +91 99941 62046

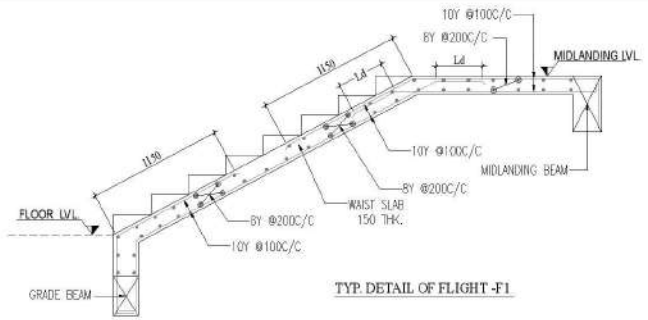
SCALE	1 : 50	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR

MID LANDING BEAM

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
MB1	200x450	200, 450, 3-16Y, 8Y @150C/C, 3-16Y	200, 450, 3-16Y, 8Y @150C/C, 3-16Y

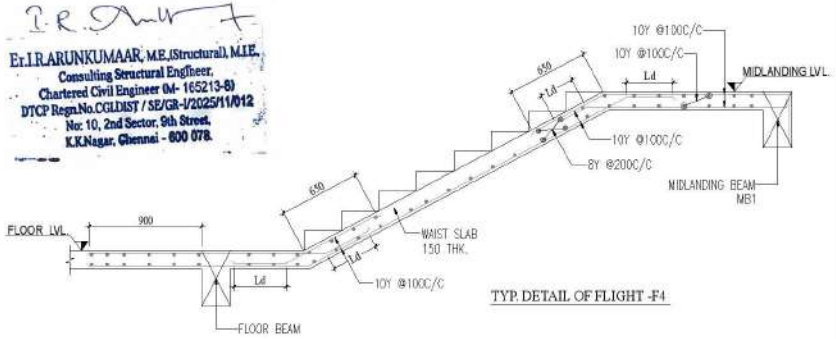


TYP. DETAIL OF FLIGHT -F3

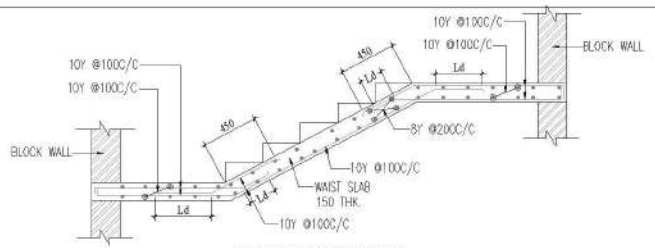


TYP. DETAIL OF FLIGHT -F1

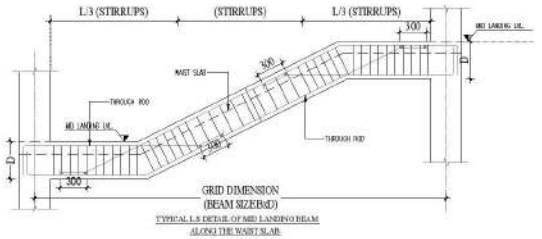
Er.I.R.ARUNKUMAAR, M.E.,(Structural), M.I.E.,
Consulting Structural Engineer,
Chartered Civil Engineer (M- 165213-8)
DTCP Regn.No.CGLDIST / SE/GR-1/2025/11/012
No: 10, 2nd Sector, 9th Street,
K.K.Nagar, Chennai - 600 078.



TYP. DETAIL OF FLIGHT -F4



TYP. DETAIL OF FLIGHT -F2



TYPICAL L.S DETAIL OF MID LANDING BEAM ALONG THE WAIST SLAB

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)

PRELIMINARY DRAWING

REV.	DESCRIPTION	BY	DATE

DRAWING NO : 1536-ST-S-05 | DATE: 21-01-2026

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

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

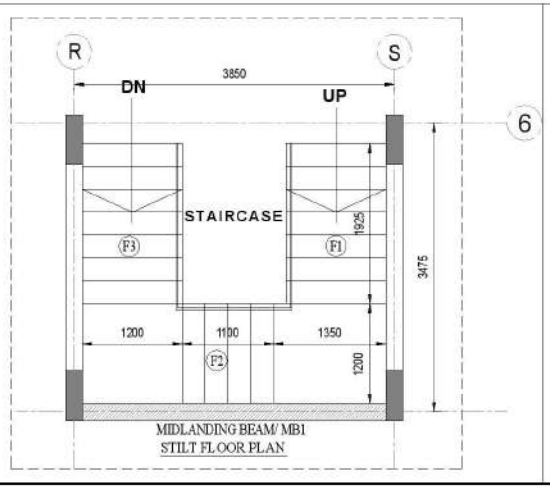
PROJECT TITLE:
PROPOSED CONSTRUCTION OF APARTMENT BUILDING AT HOSUR TOWN & TALUK, KRISHNAGIRI DISTRICT.

DRAWING TITLE:
STAIRCASE - R.C DETAILS

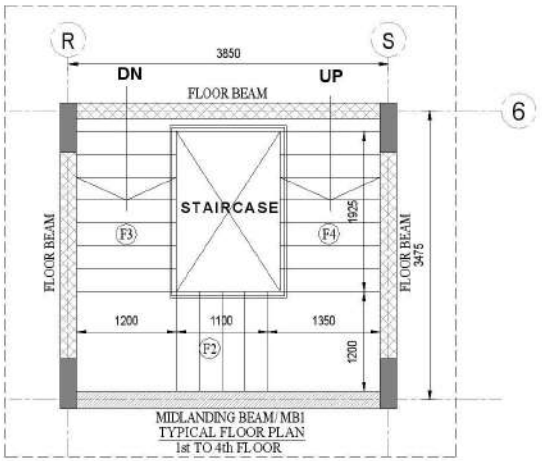
N

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

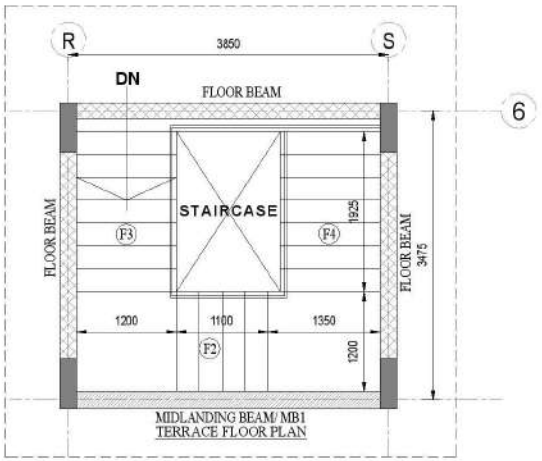
SCALE	1 : 85	DRAWN BY	CHANDRU
SHEET SIZE	A2	CHECKED BY	AKR
APPROVED BY			I.R.ARUNKUMAAR



MIDLANDING BEAM/ MB1
STILT FLOOR PLAN



MIDLANDING BEAM/ MB1
TYPICAL FLOOR PLAN
1st TO 4th FLOOR



MIDLANDING BEAM/ MB1
TERRACE FLOOR PLAN

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
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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

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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.