Verified RealEstate™

Your trusted partner for buying, selling, and managing property, ensuring hassle-free service with 100% transparency.

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

hello@verified.realestate
+91 9996 12 9996

Official Property Record

Digitally Verified Record - Powered by Verified RealEstate™



STABILITY CERTIFICATE

This is to certify that the residential building of NO: -185,186,187 &188, S.F.NO: -378/1A IN SESI AVENUE, situated at Kalapatty village, Coimbatore District was designed as a RCC Framed structure (Stilt + 5 floor) as per building approval with SBC considered as 360kN/Sqm at 3m depth from Natural Ground level. This building is designed as per the applicable Indian Standards and is Structurally sound.

Declaration:

The Structure described here is certified to be **"Structurally Sound and Stable"**

Note:

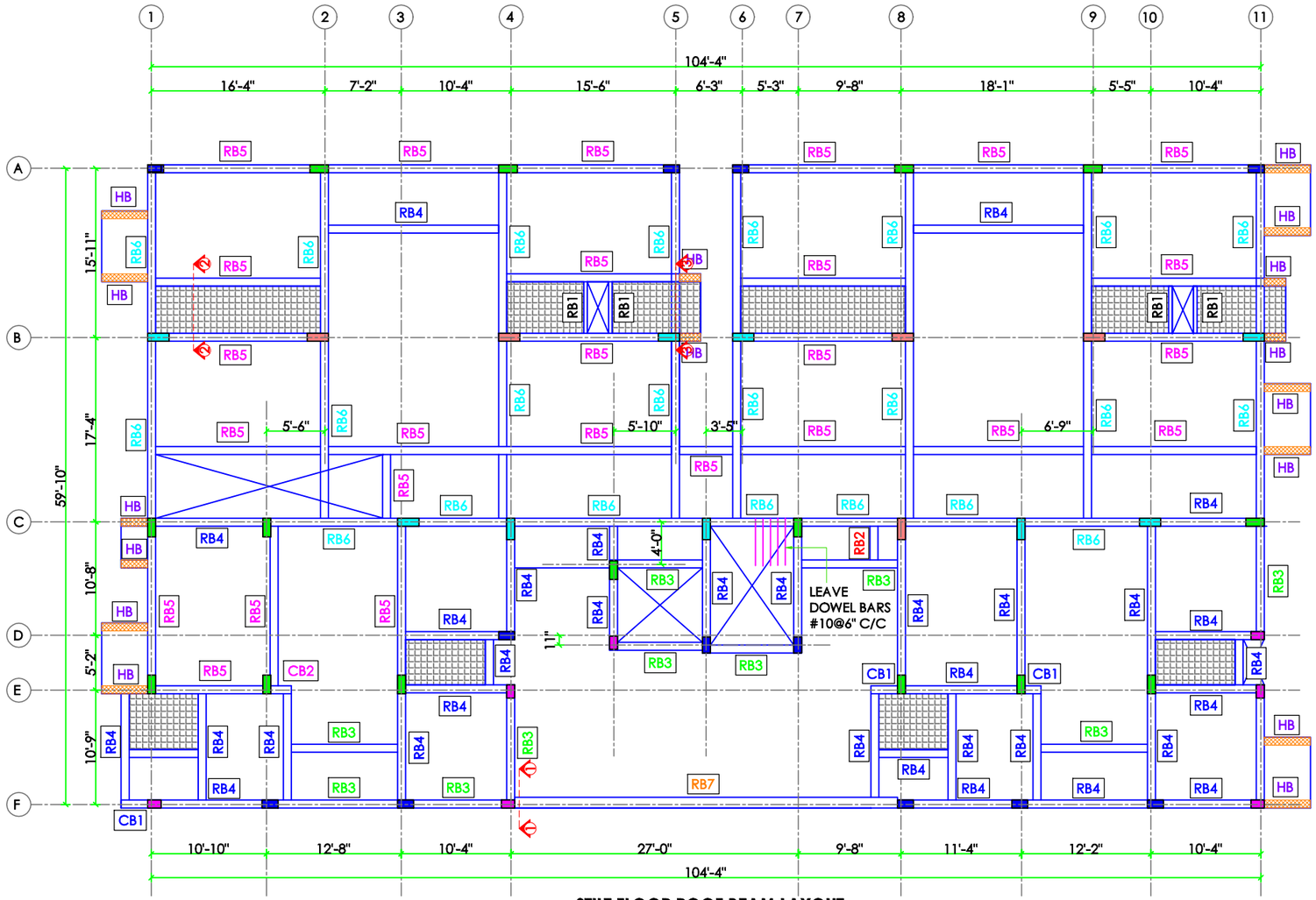
Any further additions of load or alterations in the structure will not have a bearing on this certificate and will require a fresh evaluation.

Place : Coimbatore

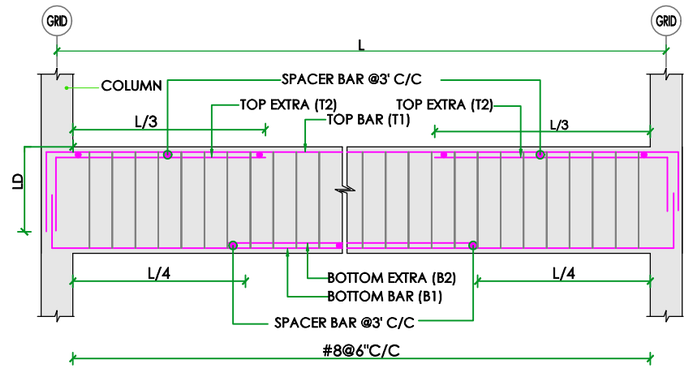
Date : 31.05.2024.

Signature of the Engineer
P.E.NO: PE/00774/16
SE/GR-I/19/03/009
F-1285175

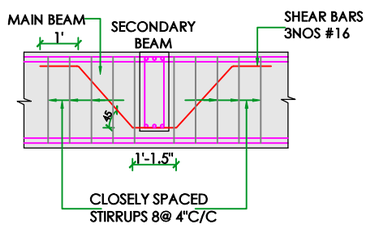
Dr.A.Sudhahar,B.E(Civil),M.E(Struct),Ph.D.
Registered Structural Engineer Grade-I
Coimbatore LPA/SE/GR-I/19/03/009
93, Veera Towers
Dr. Krishnasamy Mudaliyar Street,
R.S. Puram, Coimbatore - 641 001.



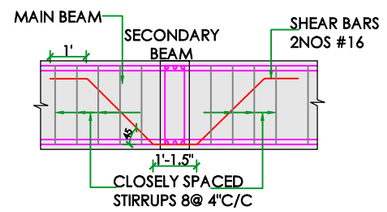
STILT FLOOR ROOF BEAM LAYOUT



TYPICAL ROOF BEAM LONGITUDINAL SECTION



DETAIL FOR BEAM WITH VARYING DEPTH



DETAIL FOR BEAM WITH SAME DEPTH

NOTES:
FOR SECTION DETAILS REFER DWG NO. D-24055 - STR - SH - 005

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 004** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

TITLE : STLIT ROOF BEAM LAYOUT & DETAILS

ARCHITECT:

STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB1	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)
RB2	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB3	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB4	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
HB	9" × 4½": 3#12 (T), 3#12 (B), #8 @ 6" C/C	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB5	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 2#12 (B2), 3#12 (B1)
RB6	9" × 18": 3#16 (T1), 2#16 (T2), #10 @ 6" C/C, 3#16 (B)	9" × 18": 3#16 (T), #10 @ 6" C/C, 2#16 (B2), 3#16 (B1)
RB7	12" × 24": 3#20 (T1), 2#16 (T2), 2#12 (SF), #10 @ 6" C/C, 3#20 (B)	12" × 24": 3#20 (T), 2#12 (SF), #10 @ 6" C/C, 2#16 (B2), 3#20 (B1)

SCHEDULE OF ROOF BEAM

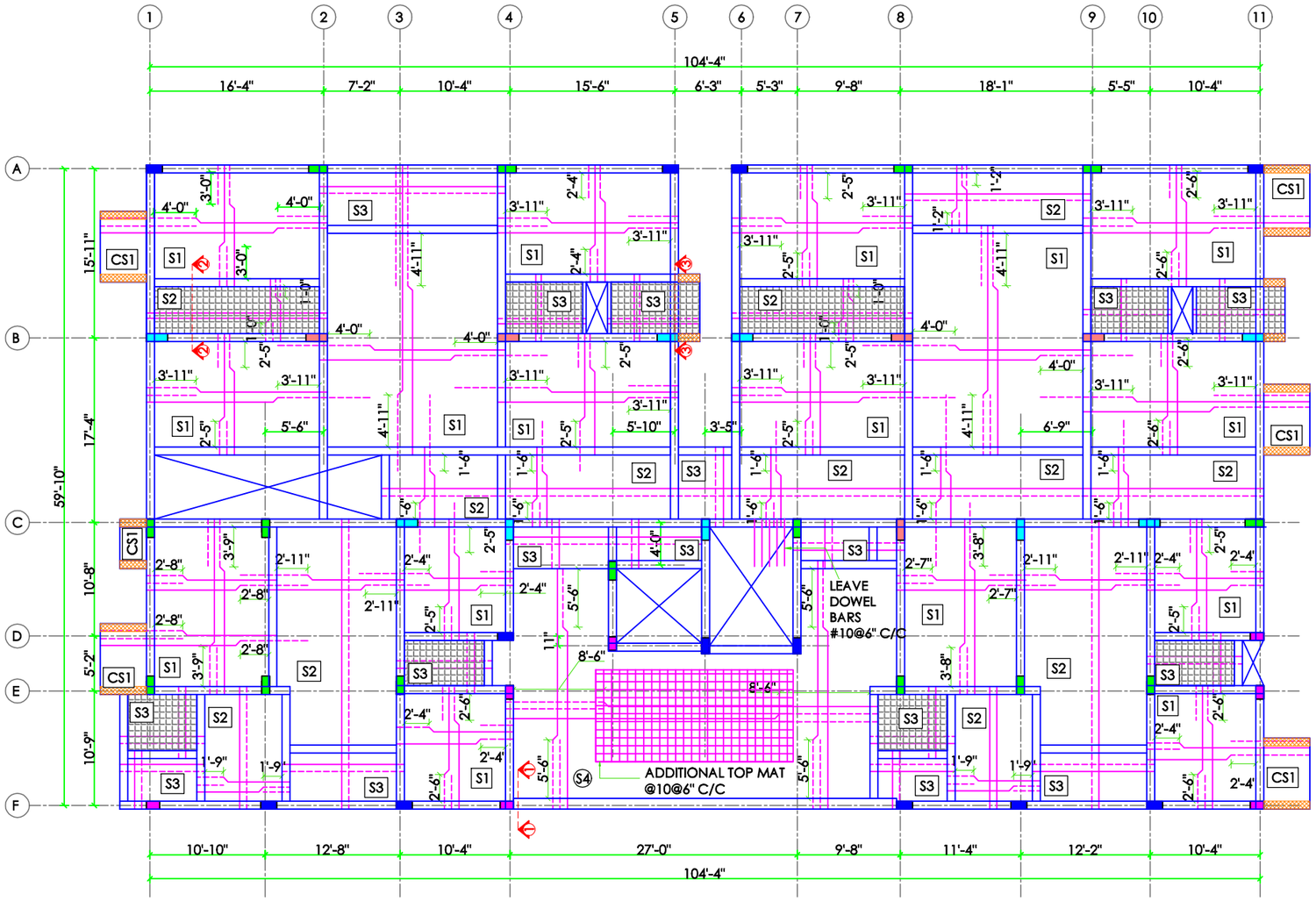
ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
CB1	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT
CB2	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

LEGENDS:

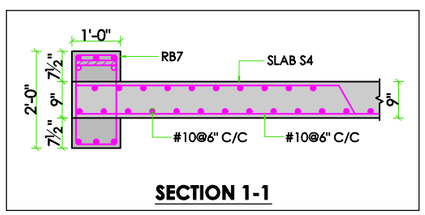
- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- ● - SIDE FACE REINFORCEMENT
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- RB - ROOF BEAM
- CB - CANTILEVER BEAM
- HB - HIDDEN BEAM
- 9" TK SUNKEN

NOTES:

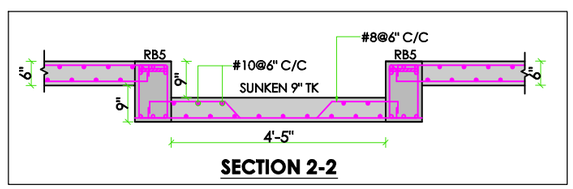
1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.



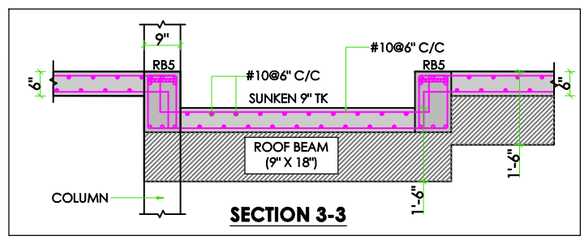
STILT FLOOR ROOF SLAB LAYOUT



SECTION 1-1



SECTION 2-2



SECTION 3-3

LEGENDS:

- # - TOR STEEL REINFORCEMENT
- ----- TOP BAR
- ——— BOTTOM BAR
- SUNKEN

SLAB REINFORCEMENT DETAILS

S.NO.	SLAB DESCRIPTION	SLAB THICKNESS	SHORTER DIRECTION		LONGER DIRECTION		DISTRIBUTOR	REMARKS
			MAIN BAR	TOP EXTRA BAR	MAIN BAR	TOP EXTRA BAR		
1	S1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TWO WAY SLAB
2	S2	5"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#8mm @ 6" C/C	ONE WAY SLAB
3	S3	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TOP & BOTTOM MAT
4	S4	9"	#12mm @ 4" C/C	#12mm @ 4" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TWO WAY SLAB
5	CS1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#10mm @ 6" C/C	CANTILEVER SLAB

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm) B) FOR SLAB : ¾" (20mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 005** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

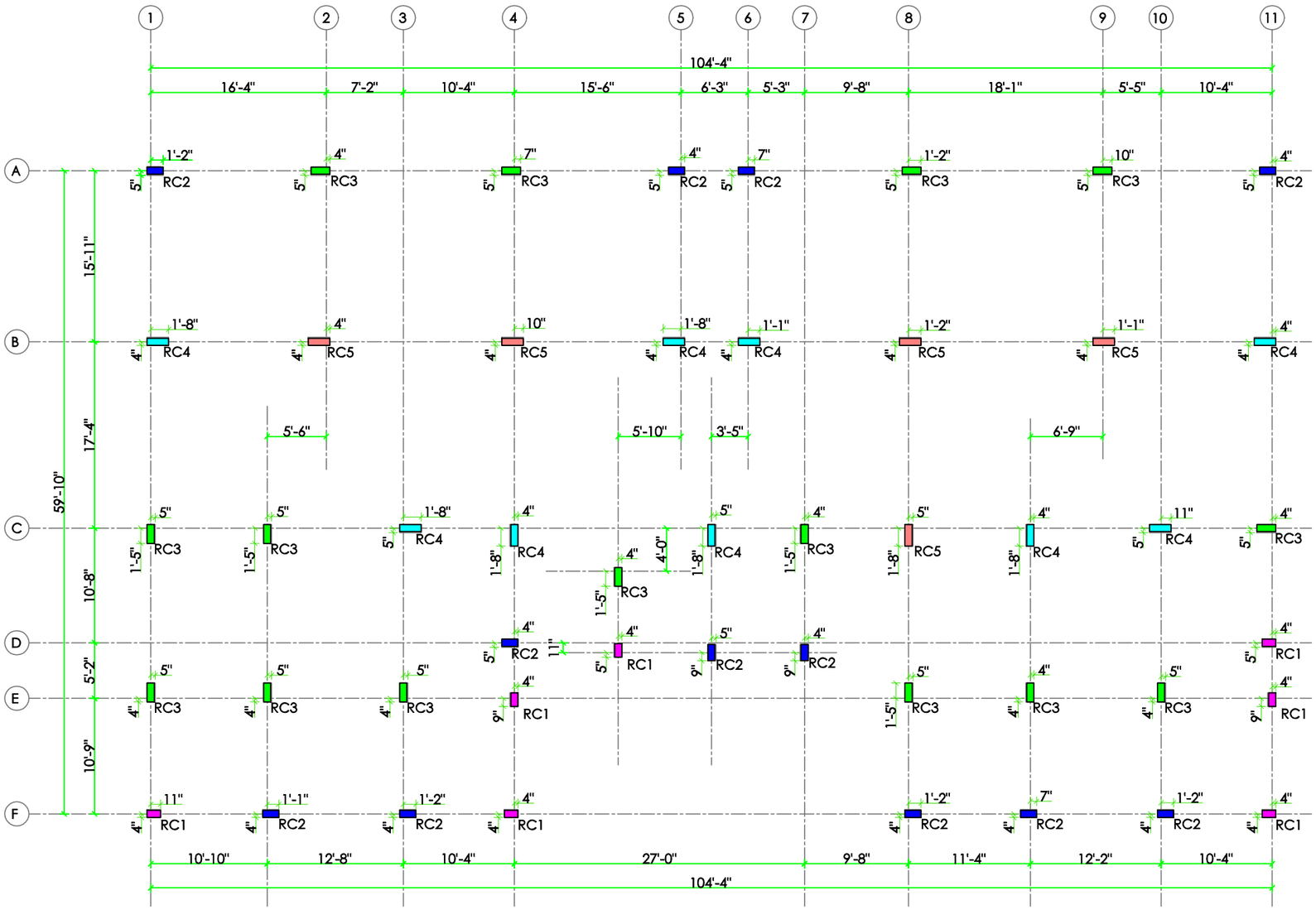
TITLE : STLIT ROOF SLAB LAYOUT & DETAILS

ARCHITECT:

STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



REDUCED COLUMN LAYOUT @ STLIT FLOOR ROOF LEVEL

REDUCED COLUMN REINFORCEMENT DETAILS

COLUMN ID	NOS	GRID .REF	SIZE	SECTION	TIE	REMARKS
RC1	7	—	8" X 15"	8" × 1'-3" 4 NOS #16 (•) 4 NOS #12 (○)	#8 @ 6" C/C 1 - TIE,1 LINK	———
RC2	12	—	8" X 18"	8" × 1'-6" 4 NOS #16 (•) 6 NOS #12 (○)	#8 @ 6" C/C 2 - TIE	———
RC3	15	—	8" X 21"	8" × 1'-9" 6 NOS #16 (•) 6 NOS #12 (○)	#8 @ 6" C/C 2 - TIE,1 LINK	———
RC4	9	—	8" X 24"	8" × 2'-0" 14 NOS #16 (•)	#8 @ 6" C/C 2 - TIE ,2 LINKS	———
RC5	5	—	8" X 24"	8" × 2'-0" 10 NOS #20 (•) 4 NOS #16 (○)	#8 @ 6" C/C 2 - TIE ,2 LINKS	———

NOTES:
FOR REDUCED COLUMN SECTION DETAILS REFER DWG NO. D-24055 - STR - SH - 006A

LEGENDS :
- # - TOR STEEL REINFORCEMENT
- • - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- RC - REDUCED COLUMN

NOTES:
1. ALL DIMENSIONS ARE IN "FEET & INCHES". UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M30 GRADE
4. REINFORCEMENT : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR FOOTING : 2" (50mm) - BOTTOM, 3" (75mm)- SIDE COVER
   B) FOR COLUMN : 1½" (40mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR COLUMN & FOOTING REINFORCEMENT, WHERE Ø IS DIAMETER OF MAIN BARS ,
9. PROVIDE DEVELOPMENT LENGTH OF 47Ø FOR COLUMN REINFORCEMENTS.
10. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS
11. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
12. BUILDING IS DESIGNED FOR S+4 FLOORS
13. SBC OF THE SOIL IS TAKEN AS 360 KN/M² AT A DEPTH OF 3m FROM NGL AS PER SOIL REPORT NO. GEO-69/2022-23 DATED 12.01.2023

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 006** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

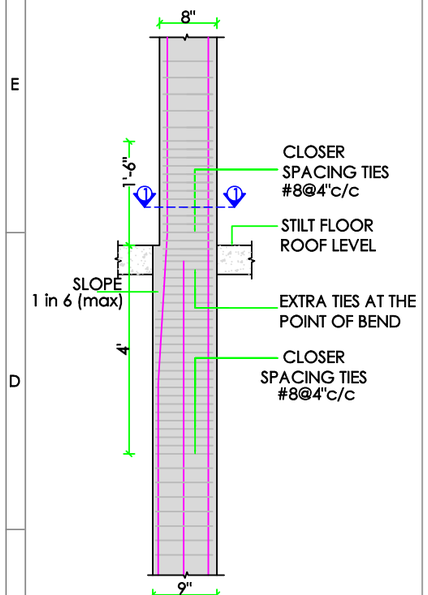
TITLE : REDUCED COLUMN LAYOUT

ARCHITECT:

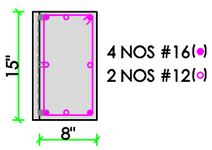
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

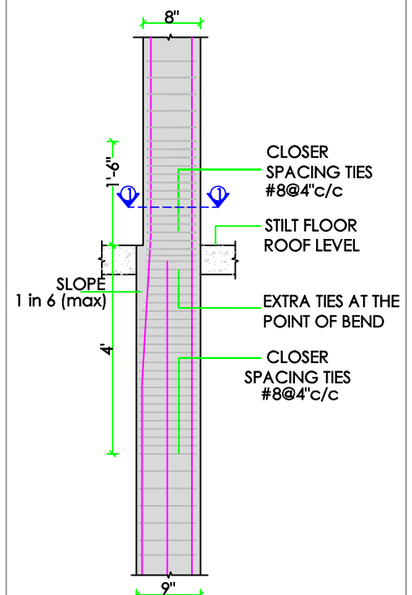
THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



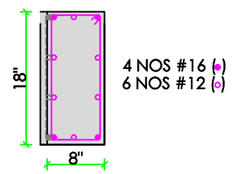
ELEVATIONAL SECTION



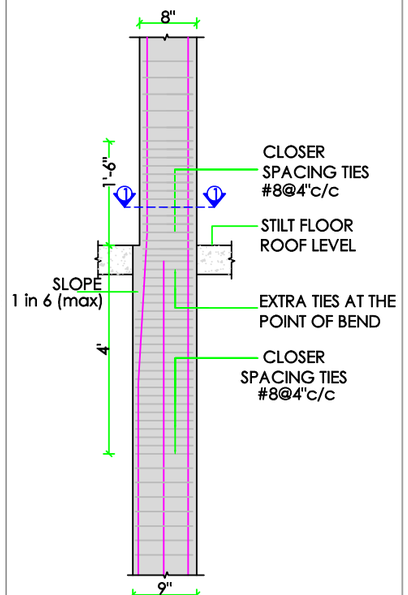
SECTION 1-1
REDUCED COLUMN (RC1)



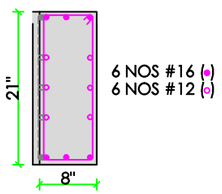
ELEVATIONAL SECTION



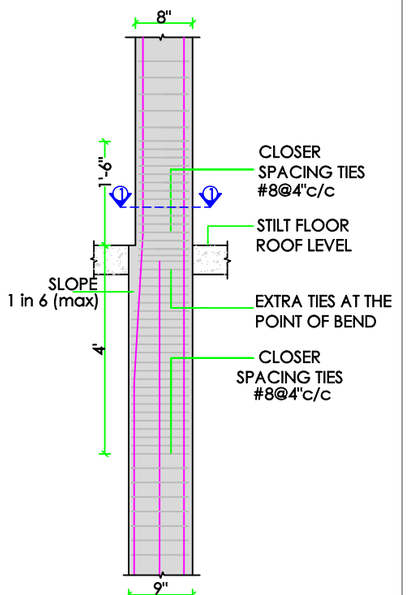
SECTION 1-1
REDUCED COLUMN (RC2)



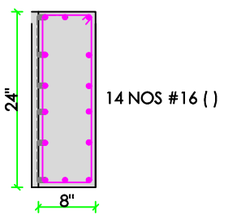
ELEVATIONAL SECTION



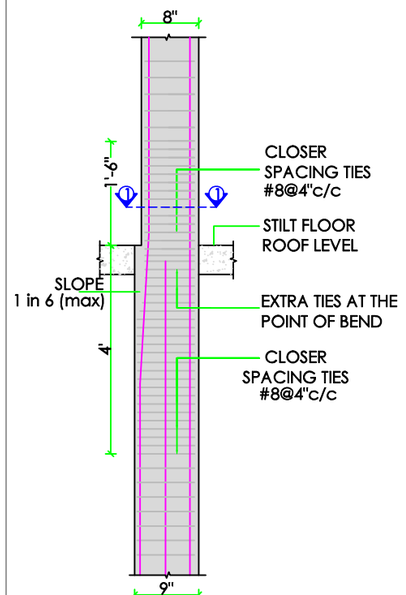
SECTION 1-1
REDUCED COLUMN (RC3)



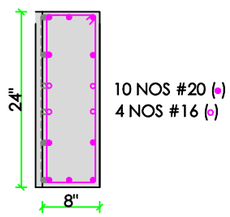
ELEVATIONAL SECTION



SECTION 1-1
REDUCED COLUMN (RC4)



ELEVATIONAL SECTION



SECTION 1-1
REDUCED COLUMN (RC5)

NOTES:

1. ALL DIMENSIONS ARE IN "FEET & INCHES". UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M30 GRADE
4. REINFORCEMENT : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR FOOTING : 2" (50mm) - BOTTOM, 3" (75mm)- SIDE COVER
   B) FOR COLUMN : 1½" (40mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR COLUMN & FOOTING REINFORCEMENT, WHERE Ø IS DIAMETER OF MAIN BARS ,
9. PROVIDE DEVELOPMENT LENGTH OF 47Ø FOR COLUMN REINFORCEMENTS.
10. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS
11. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
12. BUILDING IS DESIGNED FOR S+4 FLOORS
13. SBC OF THE SOIL IS TAKEN AS 360 KN/M^2 AT A DEPTH OF 3m FROM NGL AS PER SOIL REPORT NO. GEO-69/2022-23 DATED 12.01.2023

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 006A** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

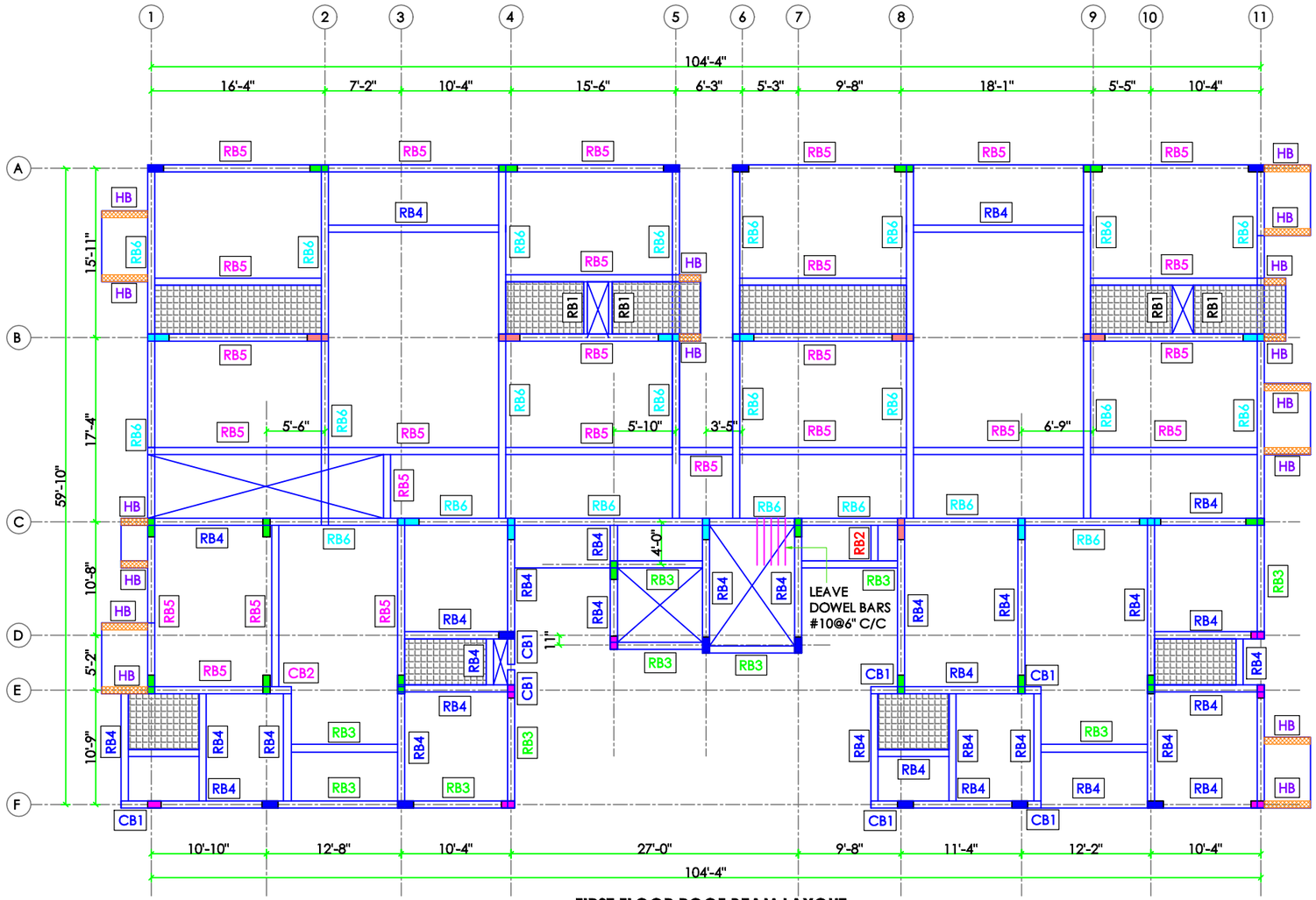
TITLE : REDUCED COLUMN SECTION

ARCHITECT:

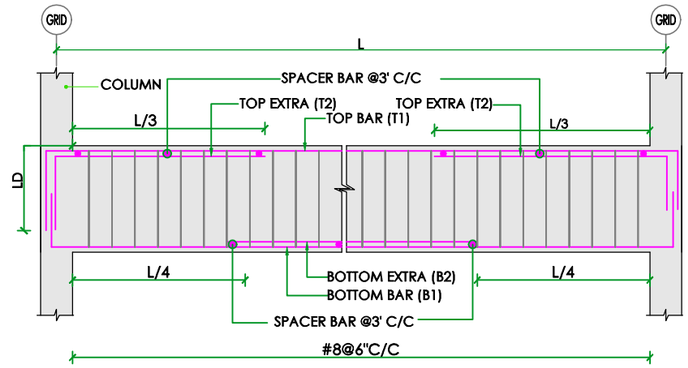
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

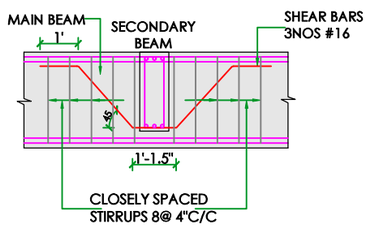
THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



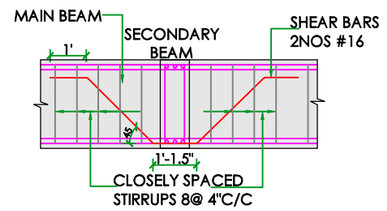
FIRST FLOOR ROOF BEAM LAYOUT



TYPICAL ROOF BEAM LONGITUDINAL SECTION



DETAIL FOR BEAM WITH VARYING DEPTH



DETAIL FOR BEAM WITH SAME DEPTH

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB1	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)
RB2	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB3	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB4	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
HB	8" × 4½": 3#12 (T), 3#12 (B), #8 @ 6" C/C	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB5	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 2#12 (B2), 3#12 (B1)
RB6	9" × 18": 3#16 (T1), 2#16 (T2), #10 @ 6" C/C, 3#16 (B)	9" × 18": 3#16 (T), #10 @ 6" C/C, 2#16 (B2), 3#16 (B1)
CB1	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
CB2	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

LEGENDS:

- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- RB - ROOF BEAM
- HB - HIDDEN BEAM
- CB - CANTILEVER BEAM
- ▦ - 9" SUNKEN

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W / S / N / E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 007** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

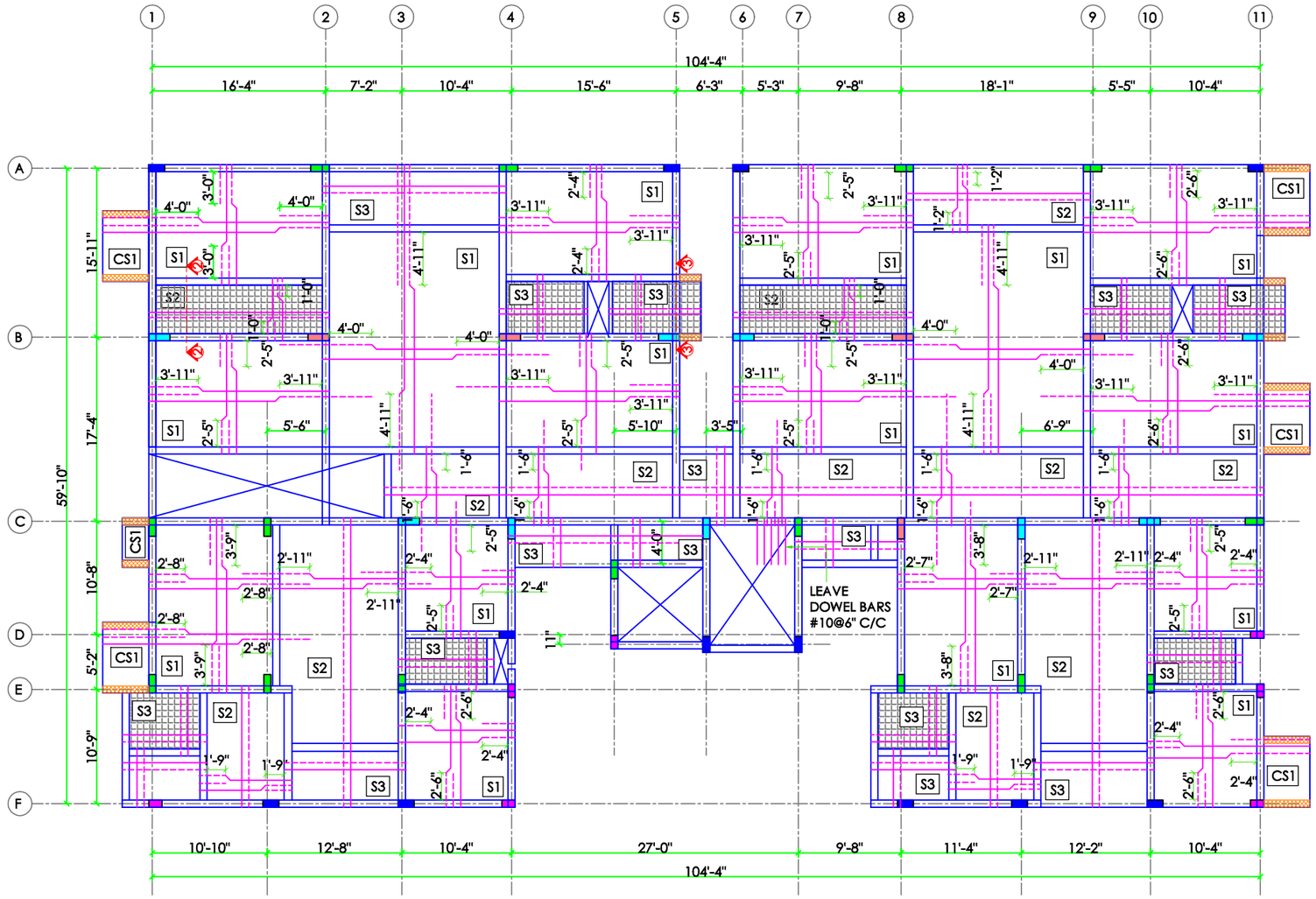
TITLE : FIRST FLOOR ROOF BEAM LAYOUT

ARCHITECT:

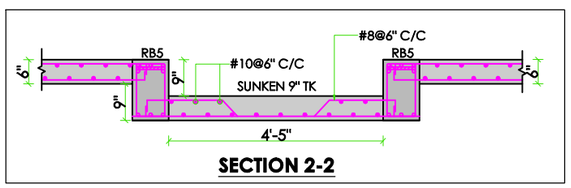
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

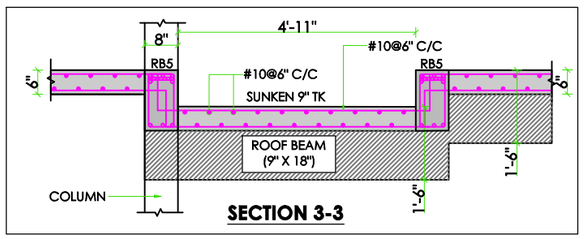
THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



FIRST FLOOR ROOF SLAB LAYOUT



SECTION 2-2



SECTION 3-3

LEGENDS:

- # - TOR STEEL REINFORCEMENT
- ----- TOP BAR
- ——— BOTTOM BAR
- SUNKEN

SLAB REINFORCEMENT DETAILS

S.NO.	SLAB DESCRIPTION	SLAB THICKNESS	SHORTER DIRECTION		LONGER DIRECTION		DISTRIBUTOR	REMARKS
			MAIN BAR	TOP EXTRA BAR	MAIN BAR	TOP EXTRA BAR		
1	S1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TWO WAY SLAB
2	S2	5"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#8mm @ 6" C/C	ONE WAY SLAB
3	S3	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TOP & BOTTOM MAT
4	CS1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#10mm @ 6" C/C	CANTILEVER SLAB

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm) B) FOR SLAB : ¾" (20mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 008** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

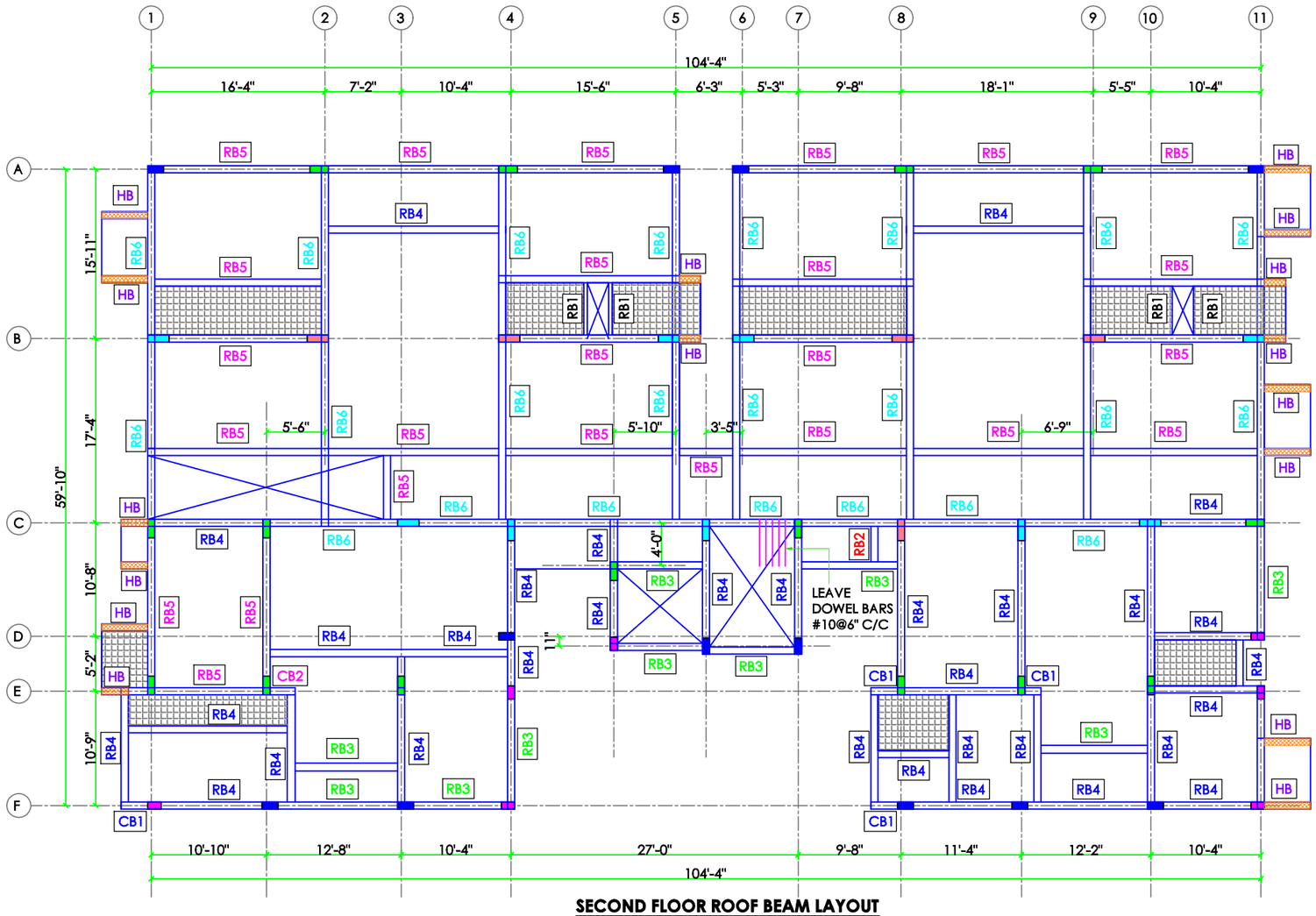
TITLE : FIRST FLOOR ROOF SLAB LAYOUT

ARCHITECT:

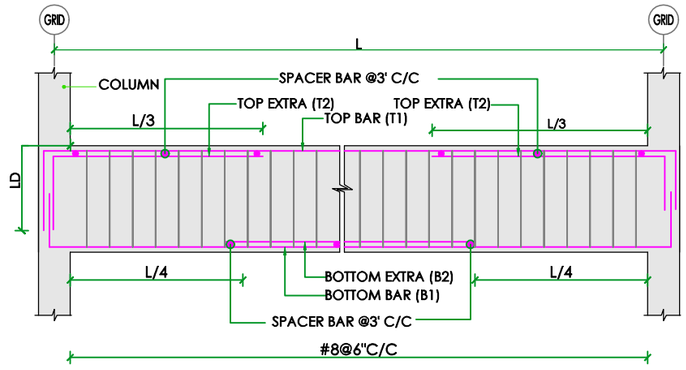
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

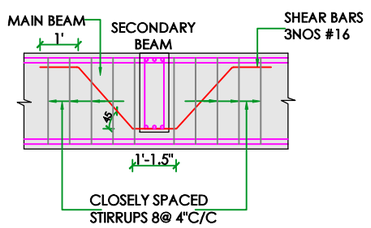
THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



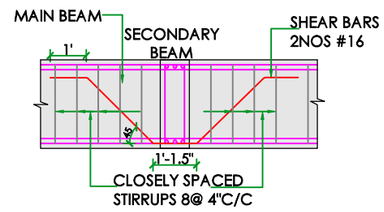
SECOND FLOOR ROOF BEAM LAYOUT



TYPICAL ROOF BEAM LONGITUDINAL SECTION



DETAIL FOR BEAM WITH VARYING DEPTH



DETAIL FOR BEAM WITH SAME DEPTH

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB1	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)
RB2	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB3	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB4	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
HB	8" × 4½": 3#12 (T), 3#12 (B), #8 @ 6" C/C	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB5	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 2#12 (B2), 3#12 (B1)
RB6	9" × 18": 3#16 (T1), 2#16 (T2), #10 @ 6" C/C, 3#16 (B)	9" × 18": 3#16 (T), #10 @ 6" C/C, 2#16 (B2), 3#16 (B1)
CB1	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
CB2	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

LEGENDS:

- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- RB - ROOF BEAM
- HB - HIDDEN BEAM
- CB - CANTILEVER BEAM
- ▦ - 9" SUNKEN

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 009** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

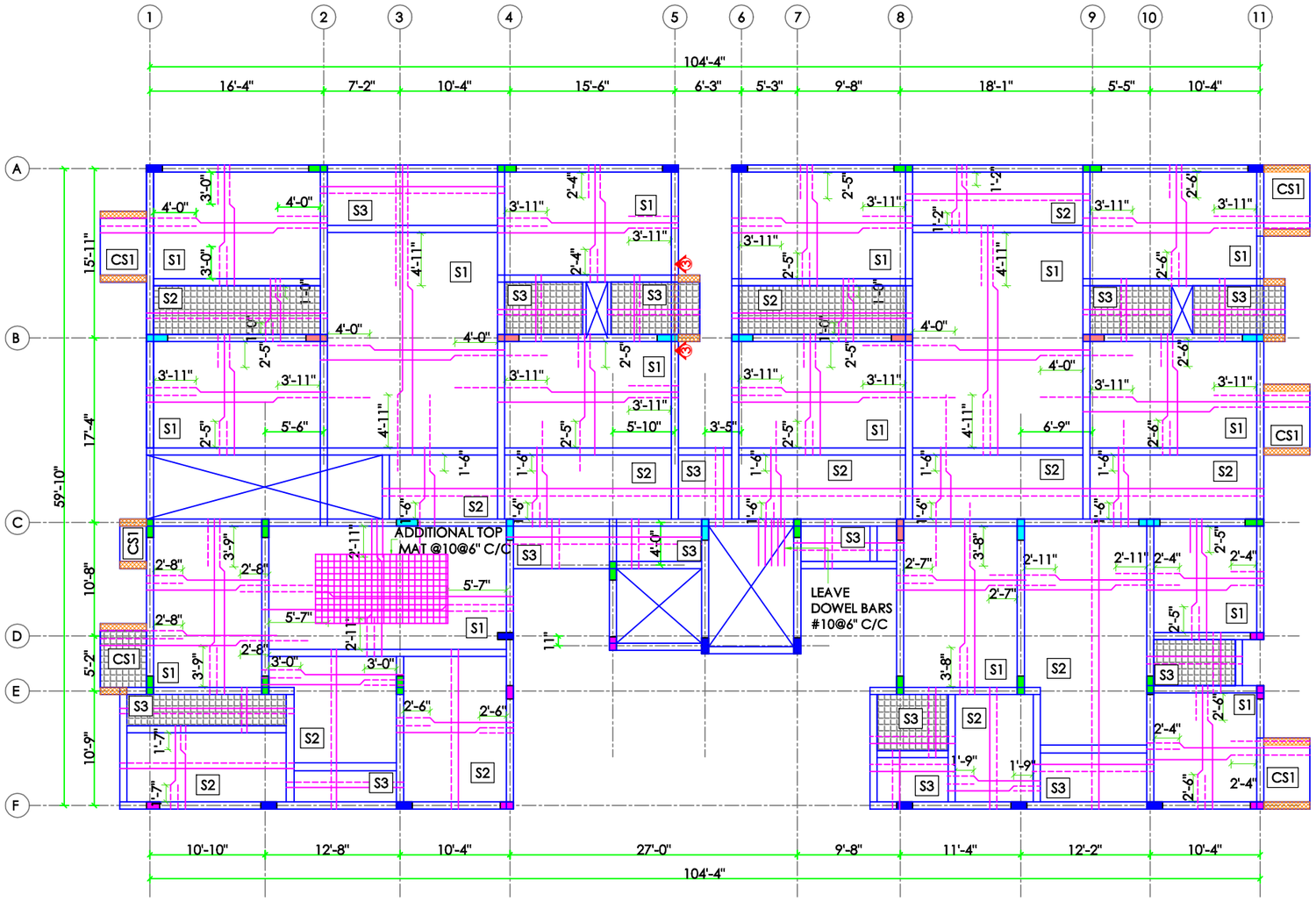
PROJECT	:	RESIDENTIAL APARTMENT @ KALAPATTI
CLIENT	:	Mr. BALASAMY ROHIT
CONTRACTOR	:	-
TITLE	:	SECOND FLOOR ROOF BEAM LAYOUT

ARCHITECT:

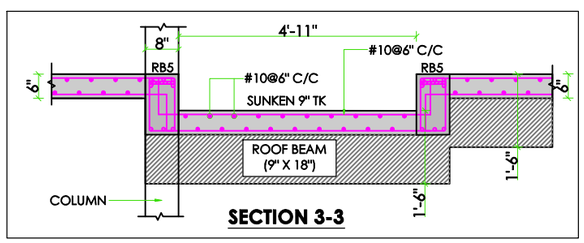
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



SECOND FLOOR ROOF SLAB LAYOUT



SECTION 3-3

LEGENDS:

- # - TOR STEEL REINFORCEMENT
- ----- - TOP BAR
- ——— - BOTTOM BAR
- SUNKEN

SLAB REINFORCEMENT DETAILS

S.NO.	SLAB DESCRIPTION	SLAB THICKNESS	SHORTER DIRECTION		LONGER DIRECTION		DISTRIBUTOR	REMARKS
			MAIN BAR	TOP EXTRA BAR	MAIN BAR	TOP EXTRA BAR		
1	S1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TWO WAY SLAB
2	S2	5"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#8mm @ 6" C/C	ONE WAY SLAB
3	S3	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TOP & BOTTOM MAT
4	CS1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#10mm @ 6" C/C	CANTILEVER SLAB

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm) B) FOR SLAB : ¾" (20mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 010** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

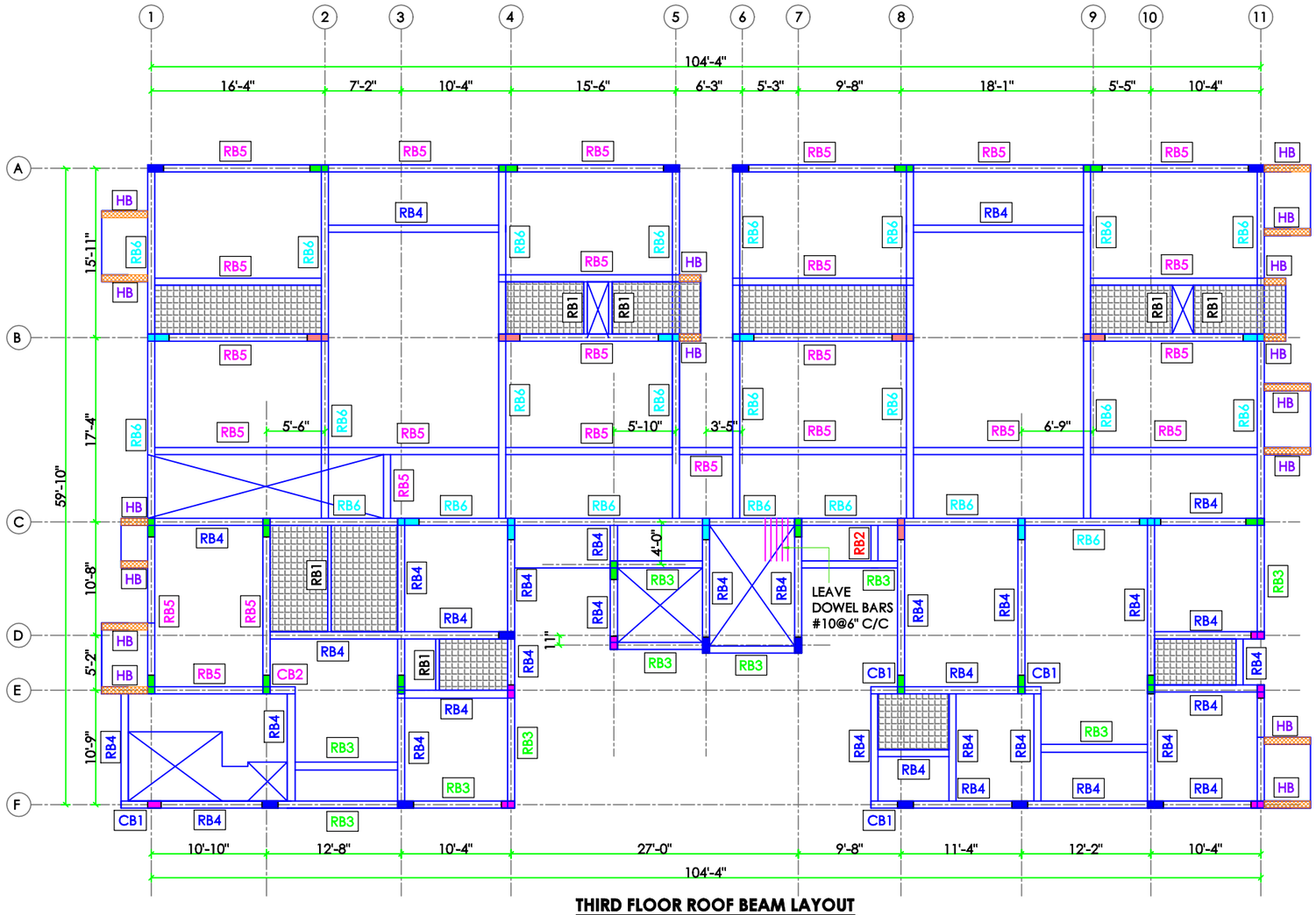
TITLE : SECOND FLOOR ROOF SLAB LAYOUT

ARCHITECT:

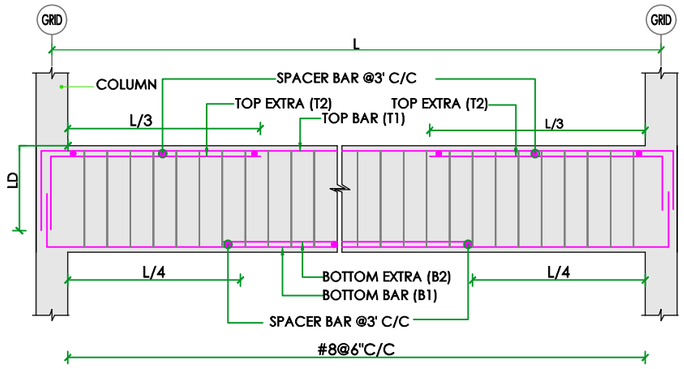
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

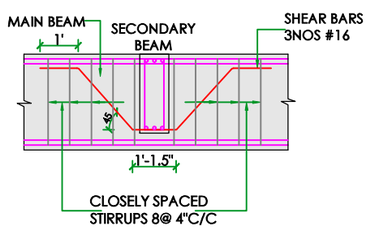
THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



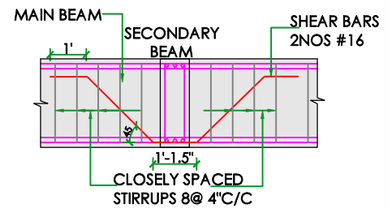
THIRD FLOOR ROOF BEAM LAYOUT



TYPICAL ROOF BEAM LONGITUDINAL SECTION



DETAIL FOR BEAM WITH VARYING DEPTH



DETAIL FOR BEAM WITH SAME DEPTH

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB1	2#12 (T) #8 @ 6" C/C 2#12 (B)	2#12 (T) #8 @ 6" C/C 2#12 (B)
RB2	3#12 (T) #8 @ 6" C/C 3#12 (B)	3#12 (T) #8 @ 6" C/C 3#12 (B)
RB3	3#12 (T) #8 @ 6" C/C 3#12 (B)	3#12 (T) #8 @ 6" C/C 3#12 (B)
RB4	3#12 (T) #8 @ 6" C/C 3#12 (B)	3#12 (T) #8 @ 6" C/C 3#12 (B)
HB	3#12 (T) 3#12 (B) #8 @ 6" C/C	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB5	3#12 (T1) 2#12 (T2) #8 @ 6" C/C 3#12 (B)	3#12 (T) #8 @ 6" C/C 2#12 (B2) 3#12 (B1)
RB6	3#16 (T1) 2#16 (T2) #10 @ 6" C/C 3#16 (B)	3#16 (T) #10 @ 6" C/C 2#16 (B2) 3#16 (B1)
CB1	3#12 (T) #8 @ 6" C/C 3#12 (B)	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
CB2	3#12 (T1) 2#12 (T2) #8 @ 6" C/C 3#12 (B)	THROUGHOUT

LEGENDS:

- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- RB - ROOF BEAM
- HB - HIDDEN BEAM
- CB - CANTILEVER BEAM
- ▦ - 9" SUNKEN

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W / S / N / E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 011** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

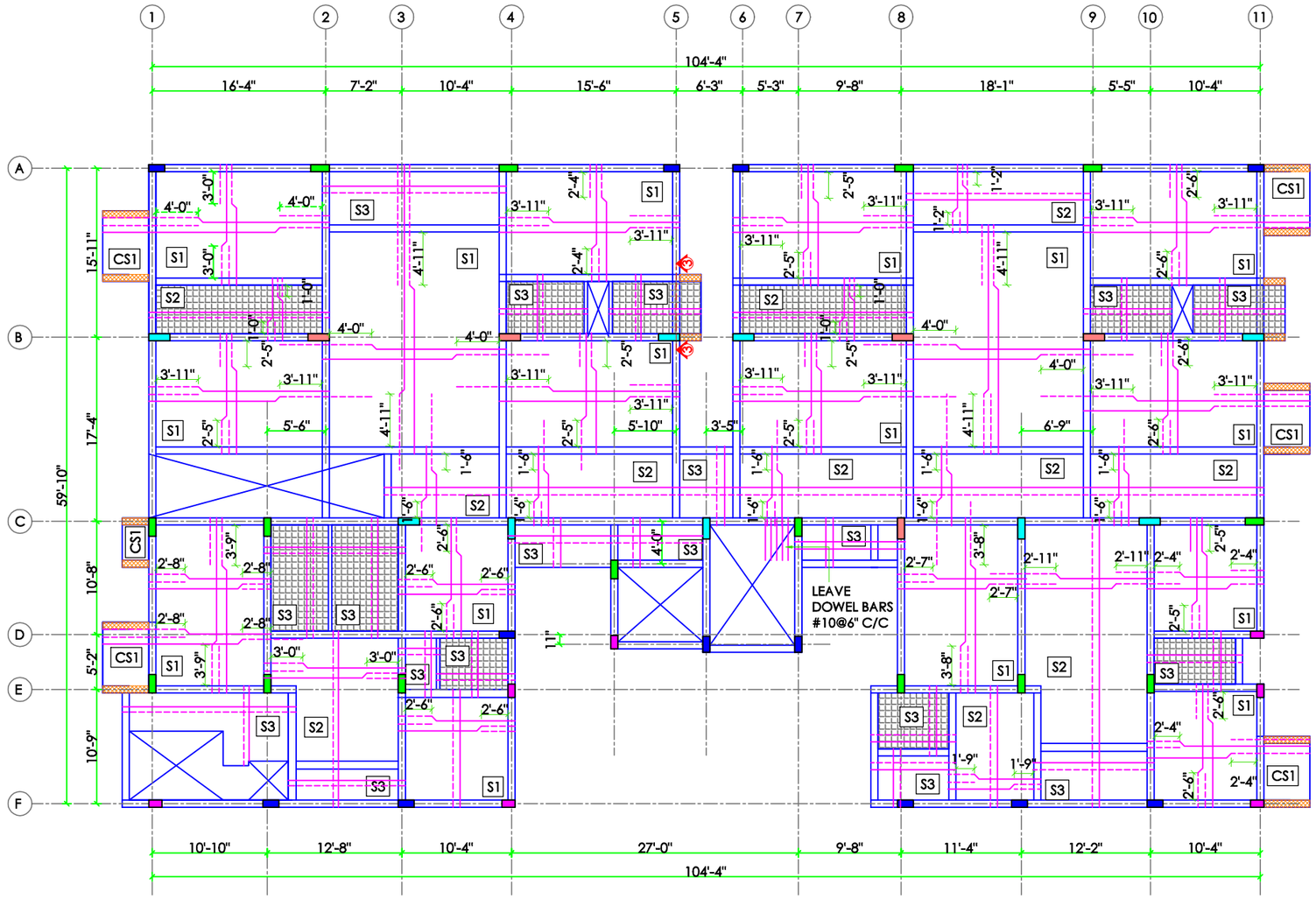
TITLE : THIRD FLOOR ROOF BEAM LAYOUT

ARCHITECT:

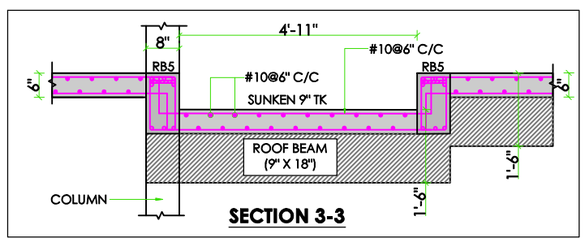
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



THIRD FLOOR ROOF SLAB LAYOUT



SECTION 3-3

LEGENDS:

- # - TOR STEEL REINFORCEMENT
- ----- TOP BAR
- ——— BOTTOM BAR
- SUNKEN

SLAB REINFORCEMENT DETAILS

S.NO.	SLAB DESCRIPTION	SLAB THICKNESS	SHORTER DIRECTION		LONGER DIRECTION		DISTRIBUTOR	REMARKS
			MAIN BAR	TOP EXTRA BAR	MAIN BAR	TOP EXTRA BAR		
1	S1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TWO WAY SLAB
2	S2	5"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#8mm @ 6" C/C	ONE WAY SLAB
3	S3	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TOP & BOTTOM MAT
4	CS1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#10mm @ 6" C/C	CANTILEVER SLAB

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm) B) FOR SLAB : ¾" (20mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 012** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

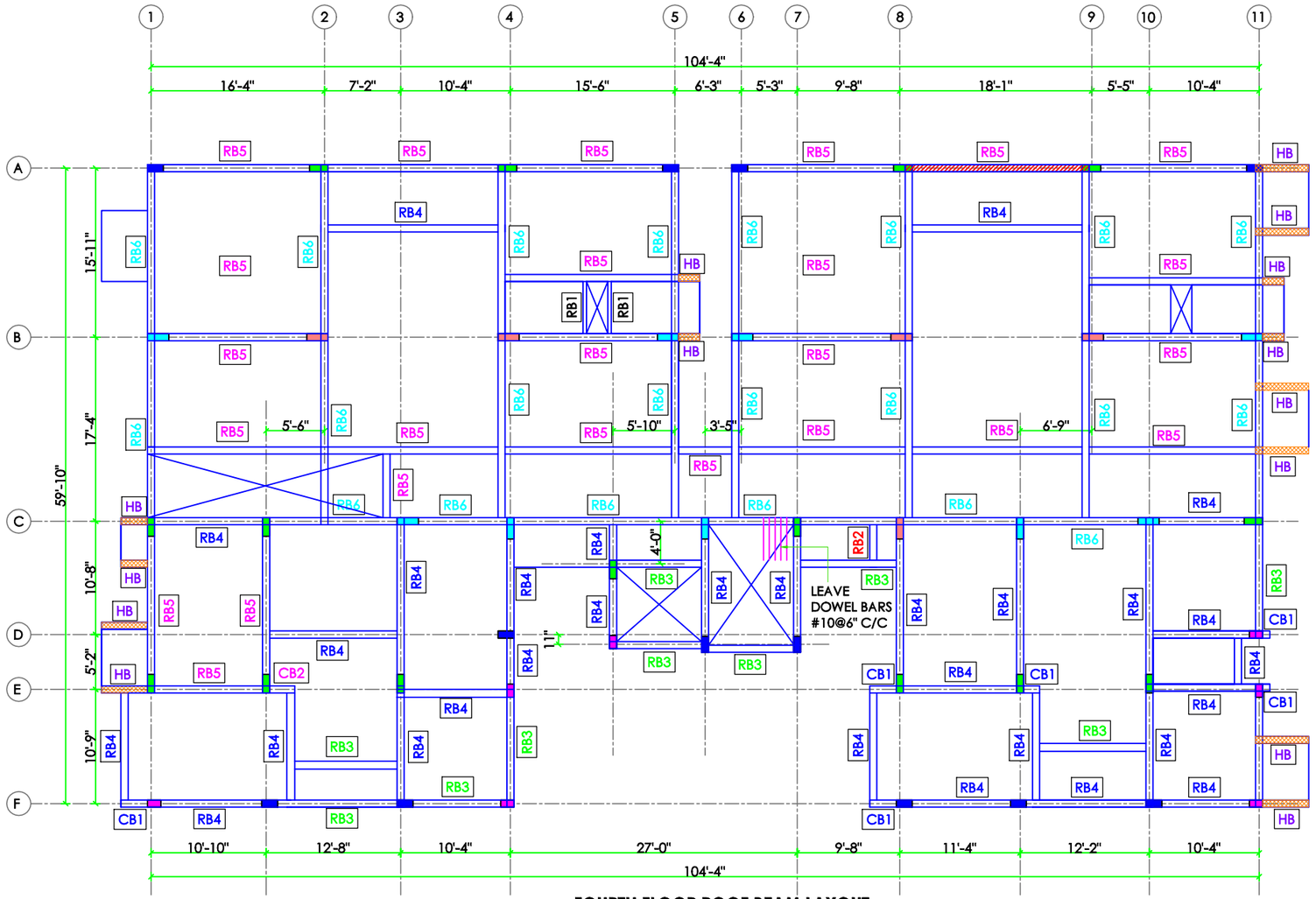
TITLE : THIRD FLOOR ROOF SLAB LAYOUT

ARCHITECT:

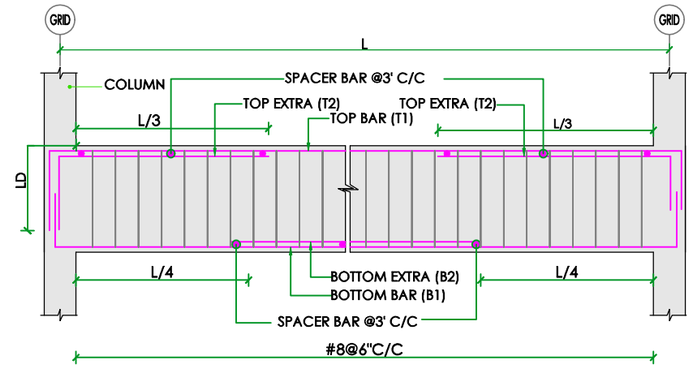
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

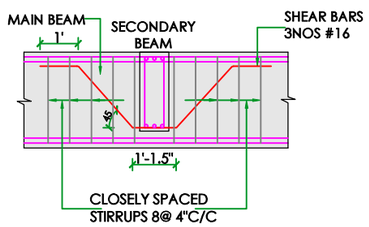
THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



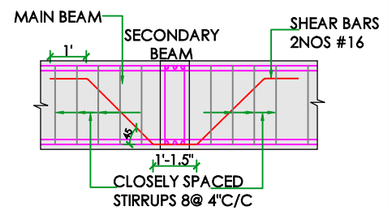
FOURTH FLOOR ROOF BEAM LAYOUT



TYPICAL ROOF BEAM LONGITUDINAL SECTION



DETAIL FOR BEAM WITH VARYING DEPTH



DETAIL FOR BEAM WITH SAME DEPTH

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB1	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)	4" × 9": 2#12 (T), #8 @ 6" C/C, 2#12 (B)
RB2	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 9": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB3	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB4	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
HB	8" × 4½": 3#12 (T), 3#12 (B), #8 @ 6" C/C	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB5	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 2#12 (B2), 3#12 (B1)
RB6	9" × 18": 3#16 (T1), 2#16 (T2), #10 @ 6" C/C, 3#16 (B)	9" × 18": 3#16 (T), #10 @ 6" C/C, 2#16 (B2), 3#16 (B1)
CB1	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
CB2	9" × 15": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	THROUGHOUT

LEGENDS:

- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- RB - ROOF BEAM
- HB - HIDDEN BEAM
- CB - CANTILEVER BEAM

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 013** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

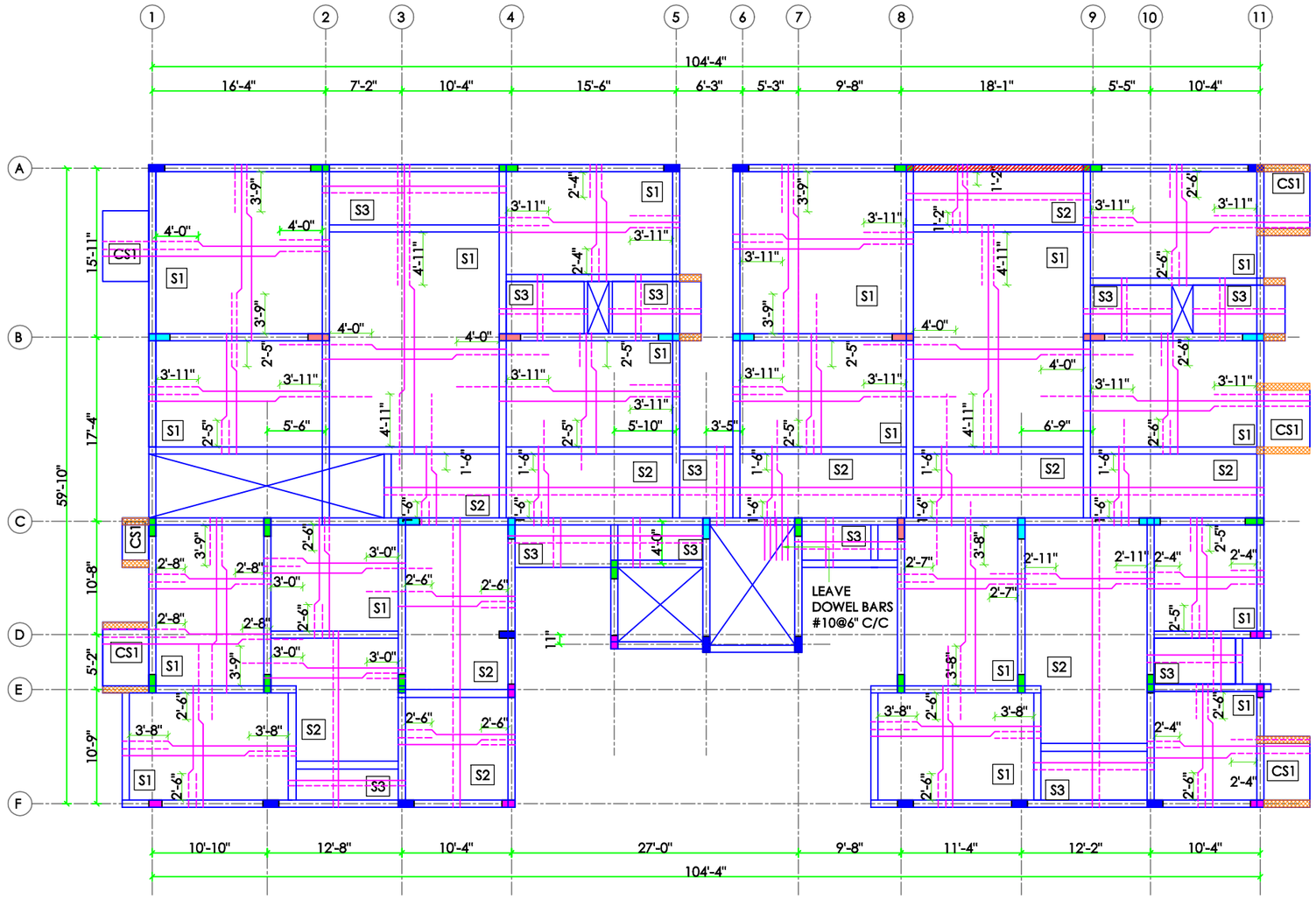
TITLE : FOURTH FLOOR ROOF BEAM LAYOUT

ARCHITECT:

STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



FOURTH FLOOR ROOF SLAB LAYOUT

LEGENDS:

- # - TOR STEEL REINFORCEMENT
- ----- TOP BAR
- ——— BOTTOM BAR

SLAB REINFORCEMENT DETAILS

S.NO.	SLAB DESCRIPTION	SLAB THICKNESS	SHORTER DIRECTION		LONGER DIRECTION		DISTRIBUTOR	REMARKS
			MAIN BAR	TOP EXTRA BAR	MAIN BAR	TOP EXTRA BAR		
1	S1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TWO WAY SLAB
2	S2	5"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#8mm @ 6" C/C	ONE WAY SLAB
3	S3	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TOP & BOTTOM MAT
4	CS1	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#10mm @ 6" C/C	CANTILEVER SLAB

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm) B) FOR SLAB : $\frac{3}{4}$" (20mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 014** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

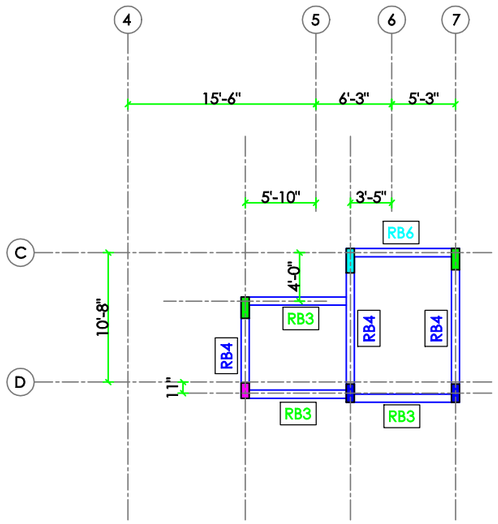
TITLE : FOURTH FLOOR ROOF SLAB LAYOUT

ARCHITECT:

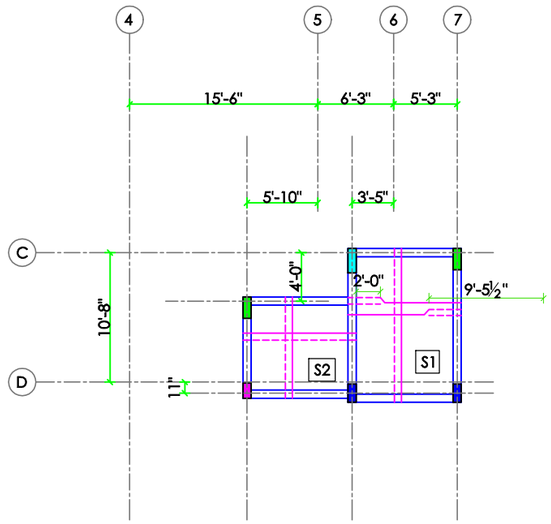
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



HEADROOM ROOF BEAM LAYOUT



HEADROOM ROOF SLAB LAYOUT

SCHEDULE OF ROOF BEAM

ROOF BEAM	C/S @ END SPAN	C/S @ MID SPAN
RB3	9", 12", 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9", 12", 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB4	9", 15", 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9", 15", 3#12 (T), #8 @ 6" C/C, 3#12 (B)
RB6	9", 18", 3#16 (T1), 2#16 (T2), #10 @ 6" C/C, 3#16 (B)	9", 18", 3#16 (T), #10 @ 6" C/C, 2#16 (B2), 3#16 (B1)

SLAB REINFORCEMENT DETAILS

S.NO.	SLAB DESCRIPTION	SLAB THICKNESS	SHORTER DIRECTION		LONGER DIRECTION		DISTRIBUTOR	REMARKS
			MAIN BAR	TOP EXTRA BAR	MAIN BAR	TOP EXTRA BAR		
1	S1	5"	#10mm @ 6" C/C	#10mm @ 6" C/C	———	———	#8mm @ 6" C/C	ONE WAY SLAB
2	S2	6"	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	#10mm @ 6" C/C	———	TOP & BOTTOM MAT

LEGENDS:

- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- RB - ROOF BEAM
- ---- - TOP BAR
- ___ - BOTTOM BAR

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm) B) FOR SLAB : ¾" (20mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W / S / N / E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 015** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

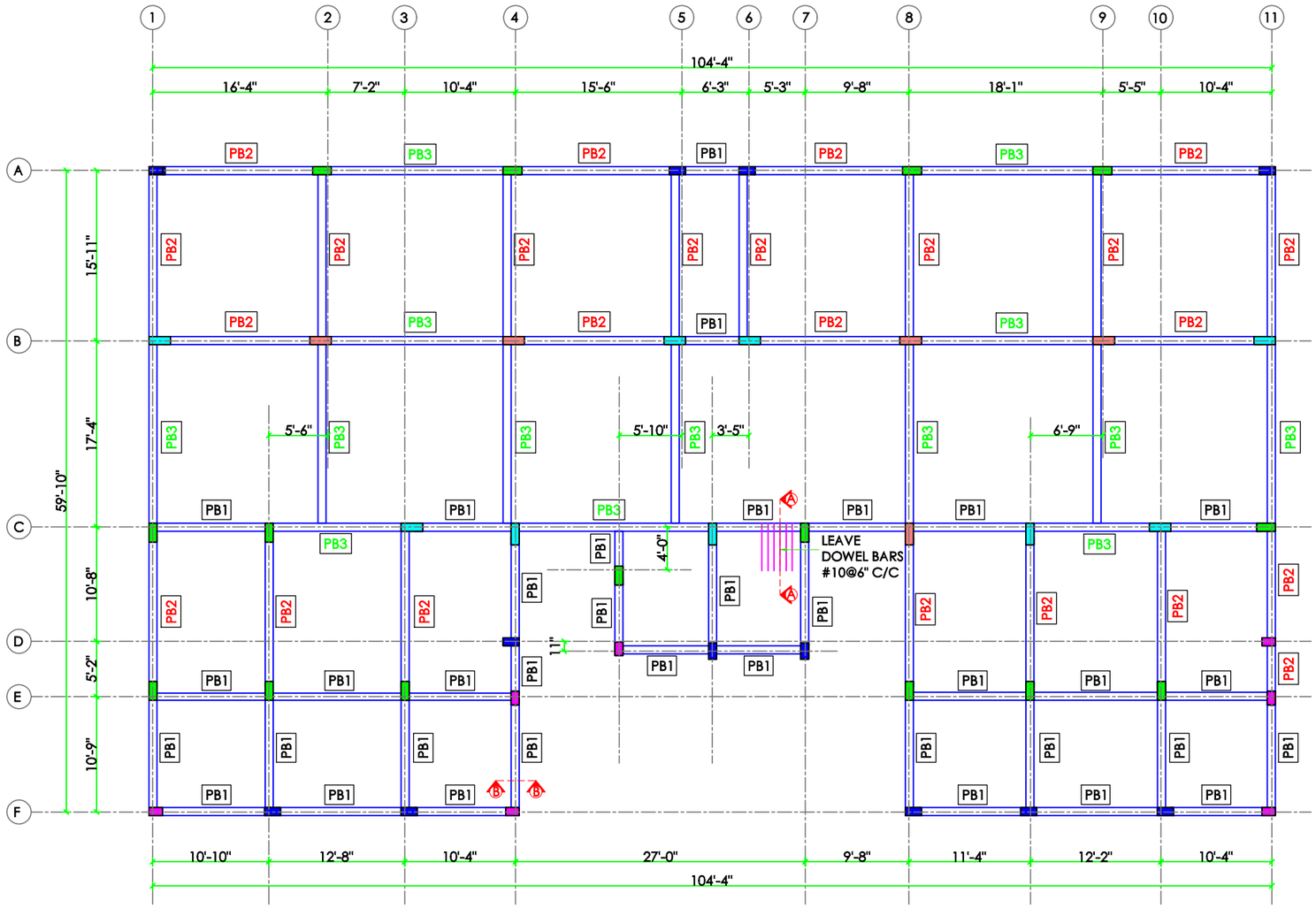
TITLE : HEADROOM ROOF BEAM AND SLAB LAYOUT

ARCHITECT:

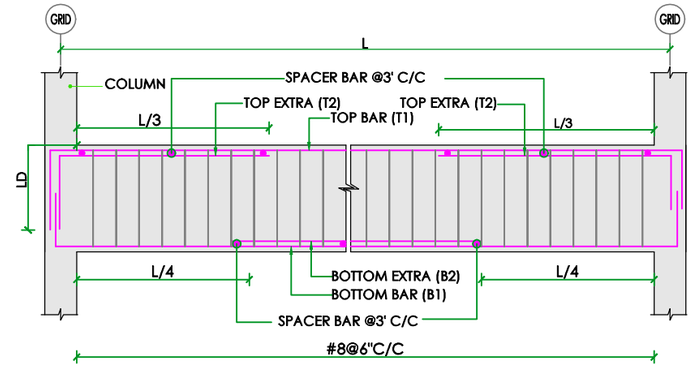
STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



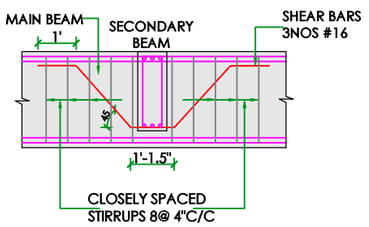
PLINTH BEAM LAYOUT



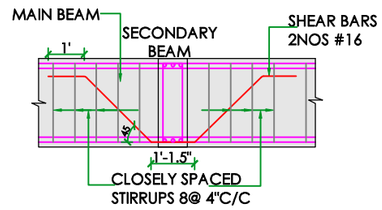
TYPICAL PLINTH BEAM LONGITUDINAL SECTION

LEGENDS:

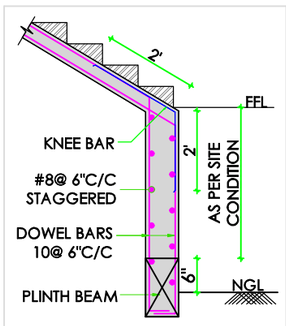
- ● - LARGER DIA BARS
- ○ - SMALLER DIA BARS
- # - TOR STEEL REINFORCEMENT
- T - TOP BAR
- B - BOTTOM BAR
- PB - PLINTH BEAM



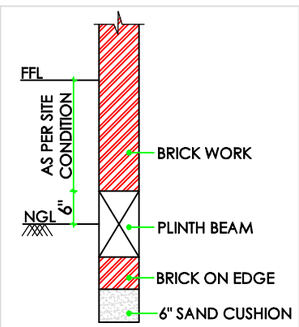
DETAIL FOR BEAM WITH VARYING DEPTH



DETAIL FOR BEAM WITH SAME DEPTH



SECTION - AA



SECTION - BB

SCHEDULE OF PLINTH BEAM

PLINTH BEAM	C/S @ END SPAN	C/S @ MID SPAN
PB1	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 12": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
PB2	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)	9" × 15": 3#12 (T), #8 @ 6" C/C, 3#12 (B)
PB3	9" × 18": 3#12 (T1), 2#12 (T2), #8 @ 6" C/C, 3#12 (B)	9" × 18": 3#12 (T), #8 @ 6" C/C, 2#12 (B2), 3#12 (B1)

NOTES:

1. ALL DIMENSION ARE IN "FEET & INCHES", UNLESS OTHER\WISE MENTIONED.
2. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL)
3. CONCRETE : M25 GRADE
4. STEEL : FE500 TMT BARS
5. CLEAR COVER FOR MAIN REINFORCEMENT
   A) FOR BEAM : 1" (25mm)
6. REMOVAL OF FORMWORK: AS PER IS 456: 2000
7. CURING PERIOD FOR ALL STRUCTURAL CONCRETE IS 28 DAYS.
8. LAPPING:
   A) FOR BEAM : THE BOTTOM STEEL SHALL BE LAPPED AT SUPPORT & TOP STEEL SHALL BE LAPPED NEAR MID SPAN
   B) NO LAPPING SHALL BE ALLOWED IN TOP STEEL OF CANTILEVER BEAMS, TOP STEEL AT CONTINUOUS SUPPORT, BOTTOM STEEL AT MID SPAN
   C) PROVIDE MINIMUM LAP LENGTH OF 50Ø FOR BEAMS & SLAB REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS
9. BEAM REINFORCEMENT TO BE BOTTOM CURTAILED AT 0.1L FROM THE SUPPORT AND 0.3L FROM THE SUPPORT FOR THE TOP REINFORCEMENT
10. DETAILING AS PER IS13920: 2016
11. LEAVE DOWELS RODS BOTH TOP & BOTTOM FOR STAIRCASE
12. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECHTURAL DRAWINGS
13. ANY DISCREPANCY FOUND IN THE DRAWING SHOULD BE BOUGHT TO THE ATTENTION OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION
14. FOR STAIRCASE DETAILS REFER SEPERATE DETAILS.

REV	DATE	DESCRIPTION	REV BY

ADVANCE COPY ☐
FOR DISCUSSION ☐
GOOD FOR CONSTRUCTION ☑

W S N E

CHIEF ENGINEER

SCALE	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
NTS	25.06.2024	WDJ	PPN	GM	DR. A.S

DRG.NO : **D-24055 - STR - SH - 003** REV R0

SHEET	PROJECT NO	CADD FILE
A3	D-24055	DOCUMAN / STRUCTURAL FULL SET

PROJECT : RESIDENTIAL APARTMENT @ KALAPATTI

CLIENT : Mr. BALASAMY ROHIT

CONTRACTOR : -

TITLE : PLINTH BEAM LAYOUT

ARCHITECT:

STRUCTURAL CONSULTANT:

DIMENSIONS
Dr. A. Sudhahar M.E., Ph.D.
93, Veera towers,
Dr. Krishnaswamy Mudhaliyar Road,
R.S.Puram, Coimbatore - 641001.
PH : +91 422 4373400, 90470 23400
Email : dimensionscbe@gmail.com

THIS DRAWING IS THE PROPERTY OF M/S DIMENSIONS STRUCTURAL DESIGNS & SHOULD NOT BE USED OR REPRODUCED WITH OUT THEIR CONSENT.



our services doesn't just end there

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



empowering your real estate decisions with smart tools

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

Verified RealEstate™

We're honored to be part of your real estate journey

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

hello@verified.realestate
+91 9996 12 9996
www.verified.realestate