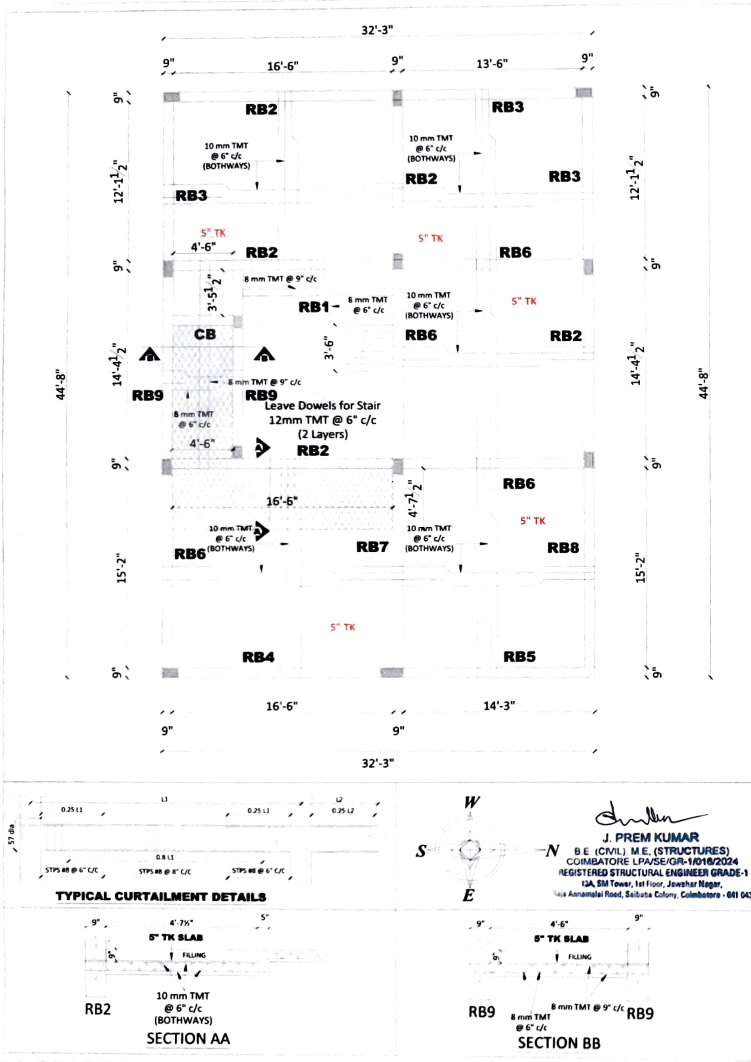




BEAM REINFORCEMENT DETAILS:

BEAM TYPE	END SECTION	MID SECTION
BEAM - RB1	9" 12" 3 - 12 $\emptyset$ () 8mmTMT@6"c/c 2 - 12 $\emptyset$ ()	9" 12" 2 - 12 $\emptyset$ () 8mmTMT@8"c/c 3 - 12 $\emptyset$ ()
BEAM - RB2	9" 15" 3 - 16 $\emptyset$ () 8mmTMT@6"c/c 2 - 16 $\emptyset$ ()	9" 15" 2 - 16 $\emptyset$ () 8mmTMT@8"c/c 3 - 16 $\emptyset$ ()
BEAM - RB3	9" 12" 3 - 16 $\emptyset$ () 8mmTMT@6"c/c 2 - 16 $\emptyset$ ()	9" 12" 2 - 16 $\emptyset$ () 8mmTMT@8"c/c 3 - 16 $\emptyset$ ()
BEAM - RB4	9" 30" 5 - 25 $\emptyset$ () 8mmTMT@6"c/c 4 - 12 $\emptyset$ () 3 - 25 $\emptyset$ ()	9" 30" 3 - 25 $\emptyset$ () 8mmTMT@8"c/c 4 - 12 $\emptyset$ () 3 - 25 $\emptyset$ ()
BEAM - RB5	9" 30" 5 - 25 $\emptyset$ () 8mmTMT@6"c/c 4 - 12 $\emptyset$ () 3 - 25 $\emptyset$ ()	CANTILEVER
BEAM - RB6	9" 15" 4 - 16 $\emptyset$ () 8mmTMT@6"c/c 2 - 16 $\emptyset$ ()	9" 15" 2 - 16 $\emptyset$ () 8mmTMT@8"c/c 3 - 16 $\emptyset$ ()
BEAM - RB7	9" 15" 5 - 16 $\emptyset$ () 8mmTMT@6"c/c 2 - 16 $\emptyset$ ()	9" 15" 2 - 16 $\emptyset$ () 8mmTMT@8"c/c 3 - 16 $\emptyset$ ()
BEAM - RB8	9" 30" 3 - 12 $\emptyset$ () 8mmTMT@6"c/c 4 - 12 $\emptyset$ () 2 - 12 $\emptyset$ ()	9" 30" 2 - 12 $\emptyset$ () 8mmTMT@8"c/c 4 - 12 $\emptyset$ () 3 - 12 $\emptyset$ ()
BEAM - RB9	9" 15" 3 - 12 $\emptyset$ () 8mmTMT@6"c/c 2 - 16 $\emptyset$ ()	9" 15" 2 - 12 $\emptyset$ () 8mmTMT@8"c/c 3 - 12 $\emptyset$ ()

NOTES:

01. ALL DIMENSIONS ARE IN "FEET & INCHES" UNLESS OTHERWISE SPECIFIED.
02. ALL LEVELS ARE IN "FEET".
03. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL(FLL).
04. CONCRETE : M20 (1:1½:3) GRADE FOR BEAM
05. STEEL : Fe 500
06. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
a) FOR BEAMS - 1" (25 mm)
b) FOR SLABS - ½" (10mm)
07. PROVIDE A LAP LENGTH OF 50 $\emptyset$ MINIMUM FOR BEAMS REINFORCEMENTS, WHERE $\emptyset$ IS DIAMETER OF MAIN BARS.
08. USE 57 $\emptyset$ FOR DEVELOPMENT LENGTH.
09. LEAVE DOWEL RODS BOTH TOP & BOTTOM FOR STAIRCASE.
10. FOR STAIRCASE DETAILS REFER SEPARATE DRAWINGS.
11. DRAWING TO BE READ IN CONJUNCTION WITH OTHER RELEVANT PLAN & ELEVATION DRAWINGS.
12. ALL DIMENSIONS & SECTIONS SHOULD BE CHECKED BY THE SITE ENGINEER BEFORE CONSTRUCTION.
13. DO NOT SCALE THE DRAWING, FOLLOW THE GIVEN DIMENSIONS ONLY.

SLAB Tk

9"

6-12 mm TMT()

8mm TMT @ 6" c/c

CONCEALED BEAM - CB

LEGEND:

- SLAB & BEAM SUNK BY 9"

- CONCEALED BEAM

DRAWING TITLE:

GROUND FLOOR
ROOF BEAM LAYOUT & DETAILS

PROJECT TITLE :

PROPOSED RESIDENTIAL BUILDING
@ COIMBATORE

PROJECT NAME :

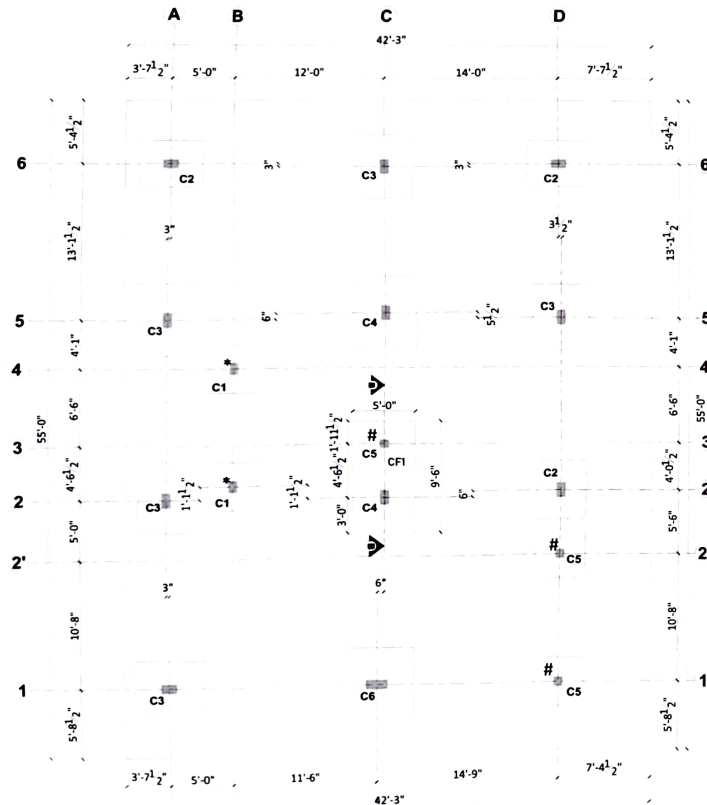
SLV AISWARYAM

DATE	REV NO	DESCRIPTION	REV BY
14-10-25		LAKCHU	EBINESH

CONSULTANTS :

INFINUSTECH
ENGINEERING * ARCHITECTURE
13 A, 1ST FLOOR, JAWAHAR NAGAR,
RAJA ANNAMALAI ROAD,
COIMBATORE - 641 011.
Mobile : 98455 33324
Email : infinustech@gmail.com

DATE	DRAWING NO	DRAWN BY	CHECKED BY	SCALE
14-10-25		LAKCHU	EBINESH	NTS



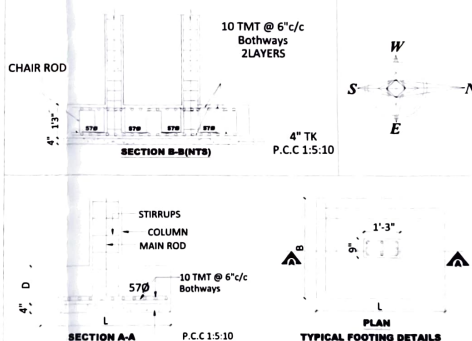
J. Prem Kumar
J. PREM KUMAR
 B.E. (CIVIL), M.E. (STRUCTURES)
 COIMBATORE LPA/SE/GR-1/01/02/2024
 REGISTERED STRUCTURAL ENGINEER GRADE-1
 12A, 5th Floor, 1st Floor, Jawahar Nagar,
 Raja Annamalai Road, Sakinaka Colony, Coimbatore - 641 043

COLUMN / FOOTING REINFORCEMENT DETAILS:

COLUMN TYPE	COLUMN SIZE	GRIDS	COLUMN REINFORCEMENT	COLUMN MIX	FOOTING SIZE (L X B X D) & REINFORCEMENT	FOOTING MIX	Total No. of Columns
C1	9"X11"	B2,B4	12" 8 - 12mm ϕ () 8mm ϕ TMT @ 7" c/c (1 Tie + 1 Link)	M20 (1.1% S)	4'0" x 4'0" x 1'3" 10mm ϕ TMT @ 6" c/c (Both ways)	M20 (1.1% S)	02
C2	9"X15"	A6,D2,D6	15" 4 - 12mm ϕ () 8mm ϕ TMT @ 8" c/c (1 Tie + 1 Link)	M20 (1.1% S)	4'0" x 5'0" x 1'3" 10mm ϕ TMT @ 6" c/c (Both ways)	M20 (1.1% S)	01
C3	9"X15"	A1,A2,A5, C6,D5	15" 8 - 16mm ϕ () 8mm ϕ TMT @ 8" c/c (1 Tie + 1 Link)	M20 (1.1% S)	4'8" x 5'6" x 1'3" 10mm ϕ TMT @ 6" c/c (Both ways)	M20 (1.1% S)	05
C4	9"X15"	C2,C3	15" 10 - 16mm ϕ () 8mm ϕ TMT @ 8" c/c (2 Ties)	M20 (1.1% S)	5'0" x 5'0" x 1'3" 10mm ϕ TMT @ 6" c/c (Both ways)	M20 (1.1% S)	02
C5	9"X9"	C3,D1,D2	9" 4 - 12mm ϕ () 8mm ϕ TMT @ 8" c/c (1 Tie)	M20 (1.1% S)	4'0" x 4'0" x 1'0" 10mm ϕ TMT @ 6" c/c (Both ways)	M20 (1.1% S)	03
C6	9"X21"	C1	21" 12 - 16mm ϕ () 8mm ϕ TMT @ 8" c/c (2 Ties + 1 Link)	M20 (1.1% S)	6'0" x 6'0" x 1'3" 10mm ϕ TMT @ 6" c/c (Both ways)	M20 (1.1% S)	01
TOTAL NO OF COLUMNS							16

COMBINED FOOTING DETAILS:

FOOTING TYPE	COLUMN TYPES	GRIDS	FOOTING SIZE (L X B X D) & REINFORCEMENT	MIX	TOTAL NO. OF COLUMNS
F1	C4,C5	C2,C3	5'0" x 9'6" x 1'3" 10 mm ϕ TMT @ 6" c/c Both ways (2 LAYERS)	M20 (1.1% S)	02



NOTE:

- * - TERMINATE INDICATED COLUMN AT GROUND FLOOR ROOF LEVEL
- # - TERMINATE INDICATED COLUMN AT GRADE BEAM TOP LEVEL

NOTES

01. ALL DIMENSIONS ARE IN "FEET & INCHES" UNLESS OTHERWISE SPECIFIED.
02. ALL LEVELS ARE IN "FEET".
03. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL).
04. CONCRETE :M20 (1:1.5:3) GRADE FOR COLUMN, M20 (1:1.5:3) GRADE FOR FOOTING.
05. STEEL : Fe 500
06. CLEAR COVER TO MAIN REINFORCEMENT :
a) FOR FOOTINGS - 2" (50mm)
b) FOR COLUMNS - 1 1/2" (40mm)
07. USE 57 ϕ FOR DEVELOPMENT LENGTH AS SHOWN IN FOOTING CROSS SECTION.
08. PROVIDE A LAP LENGTH OF 50 ϕ MINIMUM FOR COLUMN & FOOTING REINFORCEMENTS, WHERE ϕ IS DIAMETER OF MAIN BARS.
09. SBC ADOPTED FOR THE DESIGN - 265 kN/m² AT A DEPTH OF 1.7m FROM EXISTING GROUND LEVEL
10. THE STRUCTURE IS DESIGNED FOR GROUND +1 FLOORS ONLY.
11. DRAWING TO BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURE DRAWINGS.
12. ALL DIMENSIONS & SECTIONS SHOULD BE CHECKED BY THE SITE ENGINEER BEFORE CONSTRUCTION.
13. DO NOT SCALE THIS DRAWING, FOLLOW GIVEN DIMENSIONS ONLY.

DRAWING TITLE:

VILLA 1-8
 COLUMN / CENTRE LINE & FOOTING
 LAYOUT & DETAILS

PROJECT TITLE :

PROPOSED RESIDENTIAL
 BUILDING @ COIMBATORE

CLIENT NAME :

SLV AISWARYAM

DATE REV NO DESCRIPTION REV BY
 CONSULTANTS :

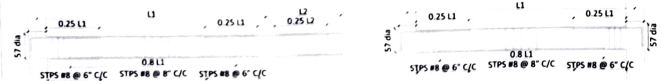
INFINUSTECH
 ENGINEERING * ARCHITECTURE
 13 A, 1ST FLOOR, JAWAHAR NAGAR
 RAJA ANNAMALAI ROAD
 COIMBATORE - 641 011.
 Mobile : 98455 33324
 Email : infinustech@gmail.com
 DATE DWG NO DRAWN BY CHECKED BY SCALE
 16.10.25 SUKUMARAN EBINESH NTS
 A3.000



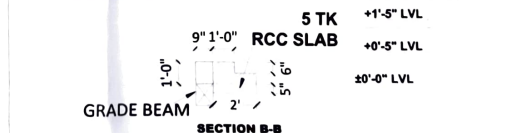
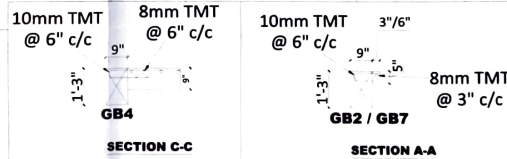
NOTE:

* - TERMINATE INDICATED COLUMN AT GROUND FLOOR ROOF LEVEL

- TERMINATE INDICATED COLUMN AT GRADE BEAM TOP LEVEL



TYPICAL CURTAILMENT DETAILS



BEAM REINFORCEMENT DETAILS:

BEAM TYPE	END SECTION	MID SECTION
BEAM-GB1	12" 9" 3-12 Ø () 8mmTMT@6" c/c 2-12 Ø ()	12" 9" 2-12 Ø () 8mmTMT@8" c/c 3-12 Ø ()
BEAM-GB2	15" 9" 3-16 Ø () 8mmTMT@6" c/c 2-16 Ø ()	15" 9" 2-16 Ø () 8mmTMT@8" c/c 3-16 Ø ()
BEAM-GB3	15" 9" 3-12 Ø () 8mmTMT@6" c/c 2-12 Ø ()	15" 9" 2-12 Ø () 8mmTMT@8" c/c 3-12 Ø ()
BEAM-GB4	15" 9" 4-12 Ø () 8mmTMT@6" c/c 2-12 Ø ()	15" 9" 2-12 Ø () 8mmTMT@8" c/c 4-12 Ø ()
BEAM-GB5	12" 9" 3-16 Ø () 8mmTMT@6" c/c 2-16 Ø ()	12" 9" 2-16 Ø () 8mmTMT@8" c/c 3-16 Ø ()
BEAM-GB6	18" 9" 4-16 Ø () 8mmTMT@6" c/c 2-16 Ø ()	15" 9" 2-16 Ø () 8mmTMT@8" c/c 3-16 Ø ()
BEAM-GB7	15" 9" 3-16 Ø () 8mmTMT@6" c/c 2-16 Ø ()	CANTILEVER
BEAM-GB8	15" 9" 4-16 Ø () 8mmTMT@6" c/c 2-16 Ø ()	15" 9" 2-16 Ø () 8mmTMT@8" c/c 4-16 Ø ()

NOTES:

01. ALL DIMENSIONS ARE IN "FEET & INCHES" UNLESS OTHERWISE SPECIFIED.
02. ALL LEVELS ARE IN "FEET".
03. ALL LEVELS ARE FROM FINISHED FLOOR LEVEL (FFL).
04. CONCRETE : M20 (1:1½:3) GRADE FOR BEAM
05. STEEL : Fe 500
06. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - a) FOR BEAMS - 1" (25 mm).
07. PROVIDE A LAP LENGTH OF 50 Ø MINIMUM FOR BEAMS REINFORCEMENTS, WHERE Ø IS DIAMETER OF MAIN BARS.
08. USE 57 Ø FOR DEVELOPMENT LENGTH.
09. LEAVE DOWEL RODS BOTH TOP & BOTTOM FOR STAIRCASE.
10. FOR STAIRCASE DETAILS REFER SEPARATE DRAWINGS.
11. DRAWING TO BE READ IN CONJUNCTION WITH OTHER RELEVANT PLAN & ELEVATION DRAWINGS.
12. ALL DIMENSIONS & SECTIONS SHOULD BE CHECKED BY THE SITE ENGINEER BEFORE CONSTRUCTION.
13. DO NOT SCALE THE DRAWING, FOLLOW THE GIVEN DIMENSIONS ONLY.



DRAWING TITLE:

VILLA_1-8
GRADE BEAM LAYOUT & DETAILS

PROJECT TITLE :

PROPOSED RESIDENTIAL
BUILDING @ COIMBATORE

CLIENT NAME :

SLV AISWARYAM

DATE	REV NO	DESCRIPTION	REV BY
------	--------	-------------	--------

CONSULTANTS :

DATE	DWG NO	DRAWN BY	CHECKED BY	SCALE
13.10.25	-----	DESAPRIYAN	EBINESH	NTS

ENGINEERING * ARCHITECTURE
205, ALAGESAN ROAD, SAIBABA COLONY,
COIMBATORE - 641 011.
Mobile : +9195855-33324.
Email : infinfustech@gmail.com,