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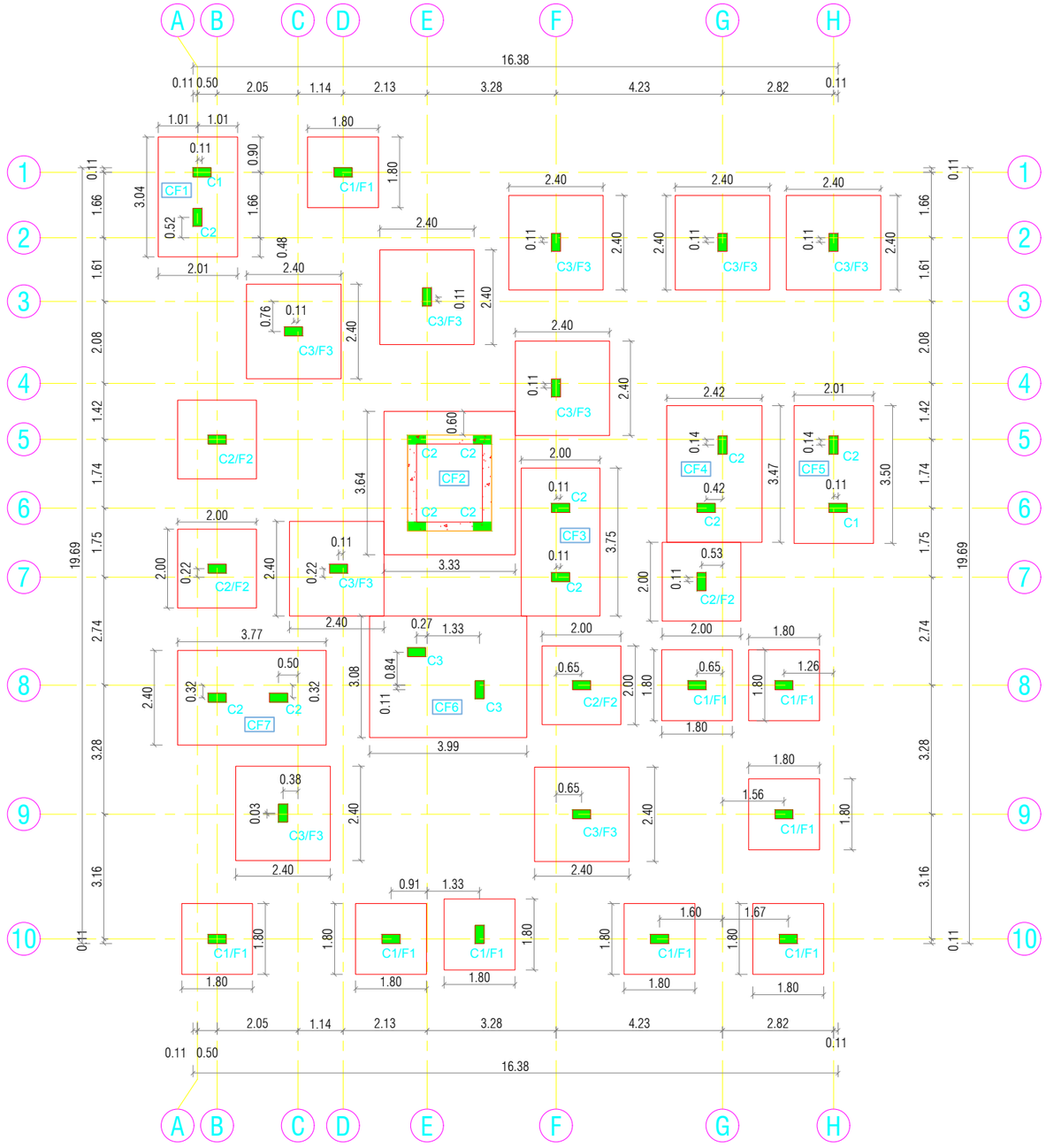
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Chennai, India

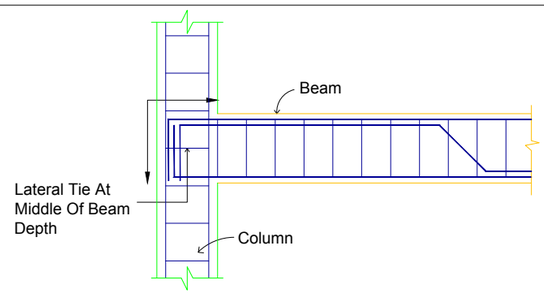
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Section

TYPICAL COLUMN AND BEAM JUNCTION - SECTION

COLUMN SECTION	Lateral Tie
0.23, 8Nos-20#, 0.40, 8# @4"/6"c/c, (refer typ. column section)	
Column 1 (C1)	Lateral Tie
0.23, 10Nos-20#, 0.40, 8# @4"/6"c/c, (refer typ. column section)	
Column 2 (C2)	Lateral Tie
0.23, 4Nos-25# +6Nos-20#, 0.40, 8# @4"/6"c/c, (refer typ. column section)	
Column 3 (C3)	Lateral Tie

FOOTING SCHEDULE

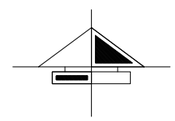
Sl.No	FOOTING	FOOTING SIZE (in m)			FOOTING REINFORCEMENT
		L x B	ED	OD	LONGER & SHORT DIRECTION
01	F1	1.8 x 1.8	0.15	0.45	10mm - 0.1m c/c
02	F2	2.0 x 2.0	0.15	0.52	12mm - 0.15m c/c
03	F3	2.4 x 2.4	0.20	0.60	12mm - 0.15m c/c
04	CF1	2.01 x3.04	0.15	0.6	12mm - 0.10m c/c
05	CF2	3.33 x3.64	0.15	0.6	12mm - 0.10m c/c
06	CF3	2.00 x3.75	0.15	0.6	12mm - 0.10m c/c
07	CF4	2.42 x3.47	0.15	0.6	12mm - 0.10m c/c
08	CF5	2.01 x3.50	0.15	0.6	12mm - 0.10m c/c
09	CF6	3.99 x3.08	0.15	0.75	16mm - 0.10m c/c
10	CF7	3.77 x2.40	0.15	0.6	12mm - 0.10m c/c

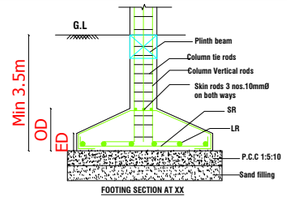
Note:
1. Beam top rod and cranked rod should be inserted into Column upto beam depth (or) 50D whichever is higher
2. Beam rod should be Kinked into the column reinforcement
3. Lateral Tie for Column Beam Junction should be provided at the Middle of the beam depth

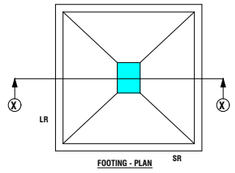
Notes:
1) This drawing should be read along with Architectural drawing before marking.
2) Foundation Designed For STILT+5 floor.
3) SBC of soil taken as 350 kN/m²

SHEET - 01

N







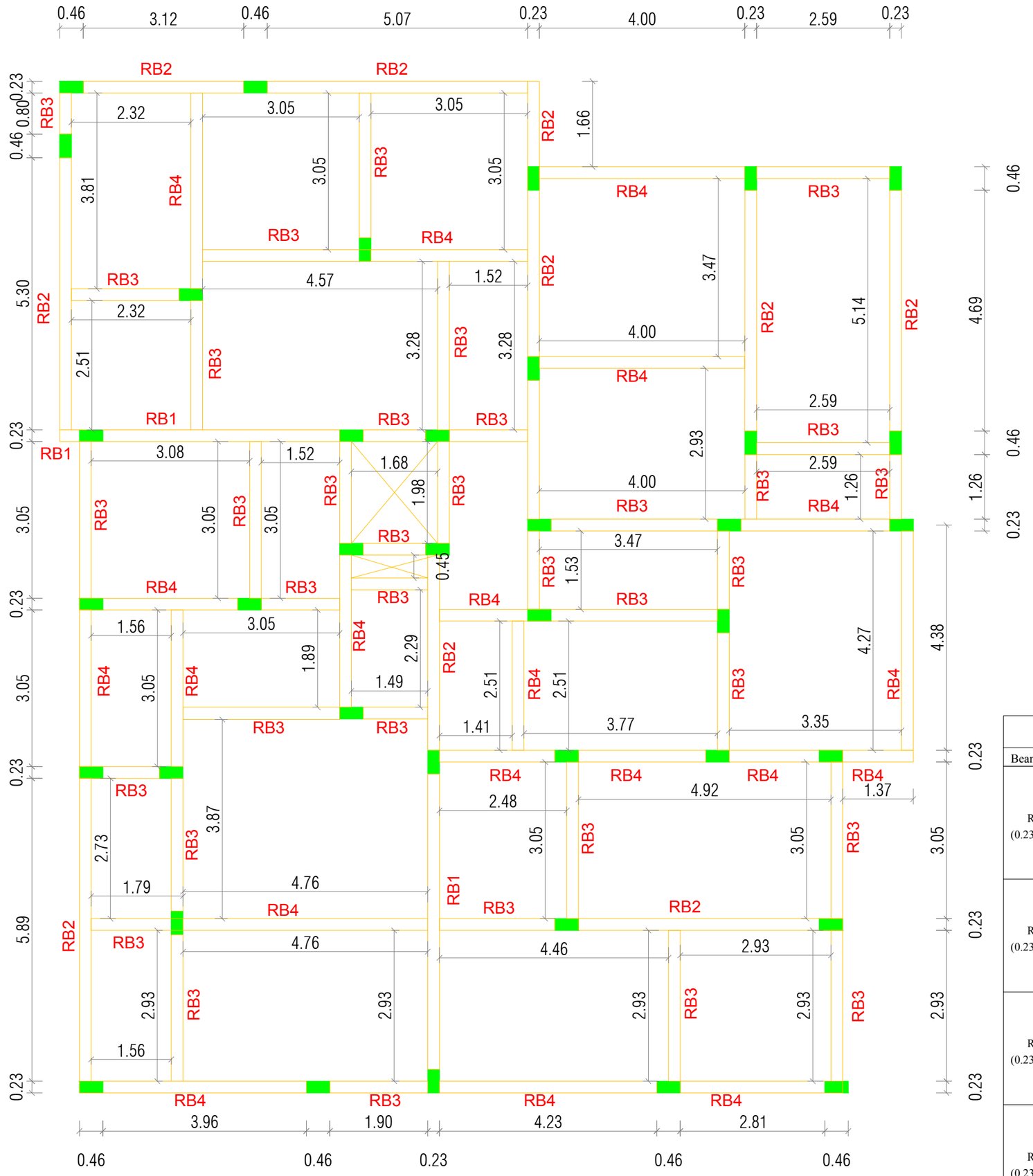
Notes:
1) Use concrete mix 1:1½:3
2) Provide clear cover 25mm for Beam ¾ for Slab reinforcement.
3) Provide lap length 50D for Beam
4) Crank at L/4of clear span
5) Extra rod at top to a length of 0.3L of clear span from support
6) ST - indicates Straight rod.
7) ckd- indicates Cranked rod .
7) cur- indicates curtailment rod .
8) # - Indicates Fe550 Steel dia in mm

SITE & DETAIL PLAN SHOWING THE PROPOSED CONSTRUCTION OF A RESIDENTIAL APARTMENT BUILDING IN T.S.NOS: 129, 130 & 132, WARD NO:Y, BLOCK NO:16 AT VILANKURICHI VILLAGE, COIMBATORE EAST ZONE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION.

COLUMN & FOOTING DETAILS

STRUCTURAL ENGINEER

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Ph: 96550 08064



SHEET - 02

N

Notes:

1) Use concrete mix 1:1½:3
2) Provide clear cover 25mm for Beam ¾ for Slab reinforcement.
3) Provide lap length 50D for Beam
4) Crank at L/4of clear span
5) Extra rod at top to a length of 0.3L of clear span from support
6) ST - indicates Straight rod.
7) ckd- indicates Cranked rod .
7) cur- indicates curtailment rod .
8) # - Indicates Fe550 Steel dia in mm

SITE & DETAIL PLAN SHOWING THE PROPOSED CONSTRUCTION OF A RESIDENTIAL APARTMENT BUILDING IN T.S.NOS: 129, 130 & 132, WARD NO:Y, BLOCK NO:16 AT VILANKURICHI VILLAGE, COIMBATORE EAST ZONE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION.

GRADE BEAM DETAILS

BEAM SECTION DETAILS

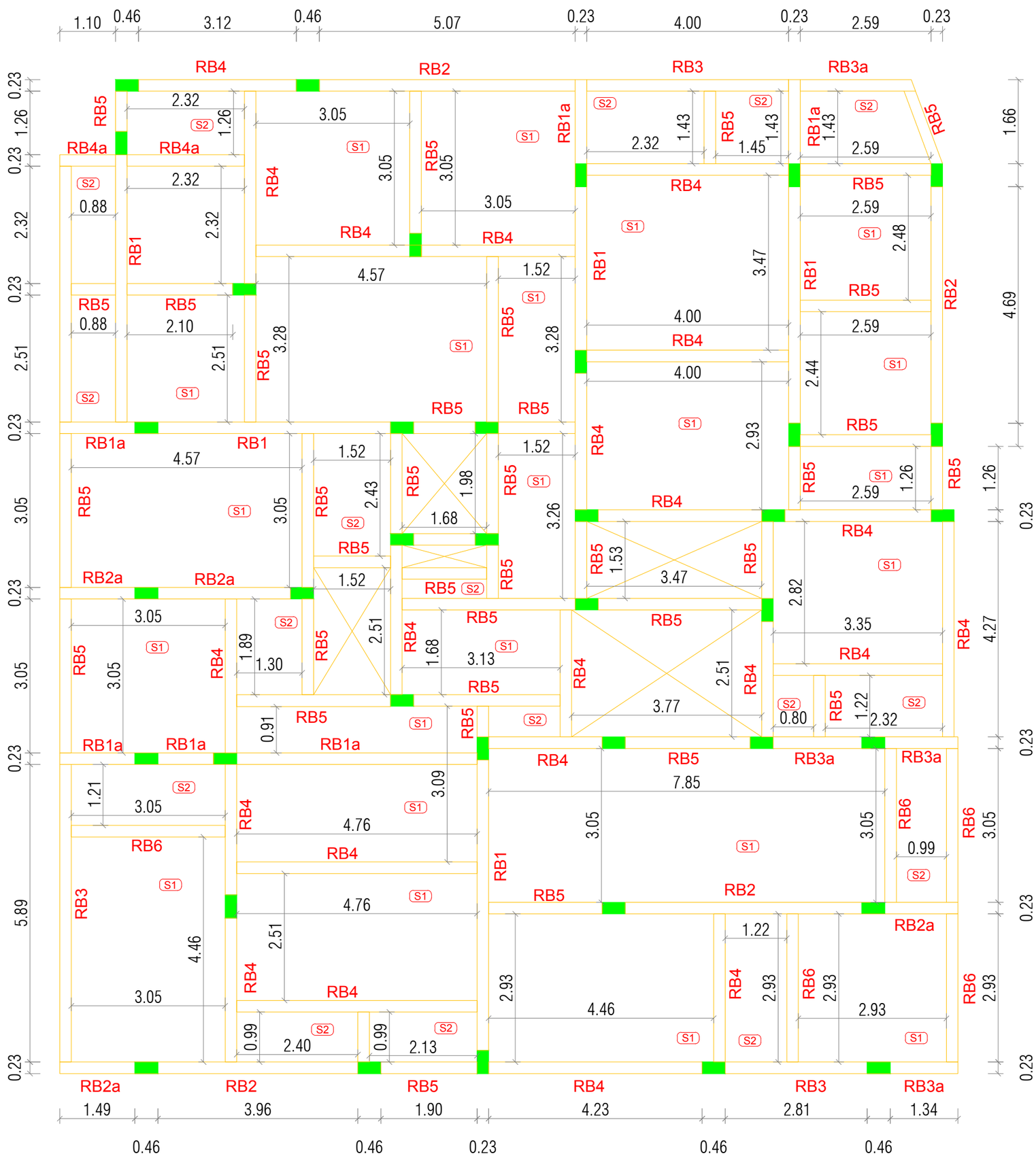
Beam No	Mid section	End section
RB1 (0.23x0.40)	0.23 × 0.40: 3Nos-16#, 8# @ 0.10m c/c, 3Nos-16#ckd, 3Nos-16# st.	3Nos-16#, 3Nos-16#ckd, 8# @ 0.10m c/c, 3Nos-16# st.
RB2 (0.23x0.40)	0.23 × 0.40: 2Nos-16#, 8# @ 0.15m c/c, 2Nos-16#ckd, 2Nos-16# st.	2Nos-16#, 2Nos-16#ckd, 8# @ 0.15m c/c, 2Nos-16# st.
RB3 (0.23x0.40)	0.23 × 0.40: 2Nos-16#, 8# @ 0.15m c/c, 2Nos-16# st.	2Nos-16#, 8# @ 0.15m c/c, 2Nos-16# st.
RB4 (0.23x0.40)	0.23 × 0.40: 3Nos-16#, 8# @ 0.15m c/c, 3Nos-16# st.	3Nos-16#, 8# @ 0.15m c/c, 3Nos-16# st.

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SHEET - 03

N



SLAB	TYPE	D	SLAB REINFORCEMENT	
			SHORT	LONG
S1	One way	0.15m	Y10@0.15C/C	Y8@0.2C/C
S2	Double Layer	0.15m	Y8@0.20C/C	Y8@0.2C/C

BEAM SECTION DETAILS

Beam No	Mid section	End section	Cantilever beam
RB1 (0.23x0.46)	0.23 / 0.46: 3Nos-20# top, 8# @ 0.10m c/c, 3Nos-20#ckd, 3Nos-20# st.	3Nos-20# top, 3Nos-20#ckd, 8# @ 0.10m c/c, 3Nos-20# st.	RB1a: 6Nos-20# top, 8# @ 0.10m c/c, 3Nos-20# st.
RB2 (0.23x0.46)	0.23 / 0.46: 3Nos-20# top, 8# @ 0.10m c/c, 3Nos-16#ckd, 3Nos-20# st.	3Nos-20# top, 3Nos-16#ckd, 8# @ 0.10m c/c, 3Nos-20# st.	RB2a: 3Nos-20# top, +3Nos-16#, 8# @ 0.10m c/c, 3Nos-20# st.
RB3 (0.23x0.40)	0.23 / 0.40: 3Nos-16# top, 8# @ 0.10m c/c, 3Nos-16#ckd, 3Nos-16# st.	3Nos-16# top, 3Nos-16#ckd, 8# @ 0.10m c/c, 3Nos-16# st.	RB3a: 6Nos-16# top, 8# @ 0.10m c/c, 3Nos-16# st.
RB4 (0.23x0.40)	0.23 / 0.40: 2Nos-16# top, 8# @ 0.15m c/c, 2Nos-16#ckd, 2Nos-16# st.	2Nos-16# top, 2Nos-16#ckd, 8# @ 0.15m c/c, 2Nos-16# st.	RB4a: 4Nos-16# top, 8# @ 0.15m c/c, 2Nos-16# st.
RB5 (0.23x0.40)	0.23 / 0.40: 2Nos-16# top, 8# @ 0.15m c/c, 2Nos-16# st.	2Nos-16# top, 8# @ 0.15m c/c, 2Nos-16# st.	
RB6 (0.23x0.40)	0.23 / 0.40: 2Nos-12# top, 8# @ 0.15m c/c, 2Nos-12#ckd, 2Nos-12# st.	2Nos-12# top, 2Nos-12#ckd, 8# @ 0.15m c/c, 2Nos-12# st.	

Notes:

1) Use concrete mix 1:1½:3
2) Provide clear cover 25mm for Beam ¾ for Slab reinforcement.
3) Provide lap length 50D for Beam
4) Crank at L/4of clear span
5) Extra rod at top to a length of 0.3L of clear span from support
6) ST - indicates Straight rod.
7) ckd- indicates Cranked rod .
7) cur- indicates curtailment rod .
8) # - Indicates Fe550 Steel dia in mm

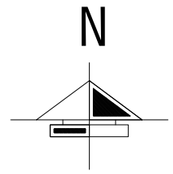
SITE & DETAIL PLAN SHOWING THE PROPOSED CONSTRUCTION OF A RESIDENTIAL APARTMENT BUILDING IN T.S.NOS: 129, 130 & 132, WARD NO:Y, BLOCK NO:16 AT VILANKURICHI VILLAGE, COIMBATORE EAST ZONE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION.

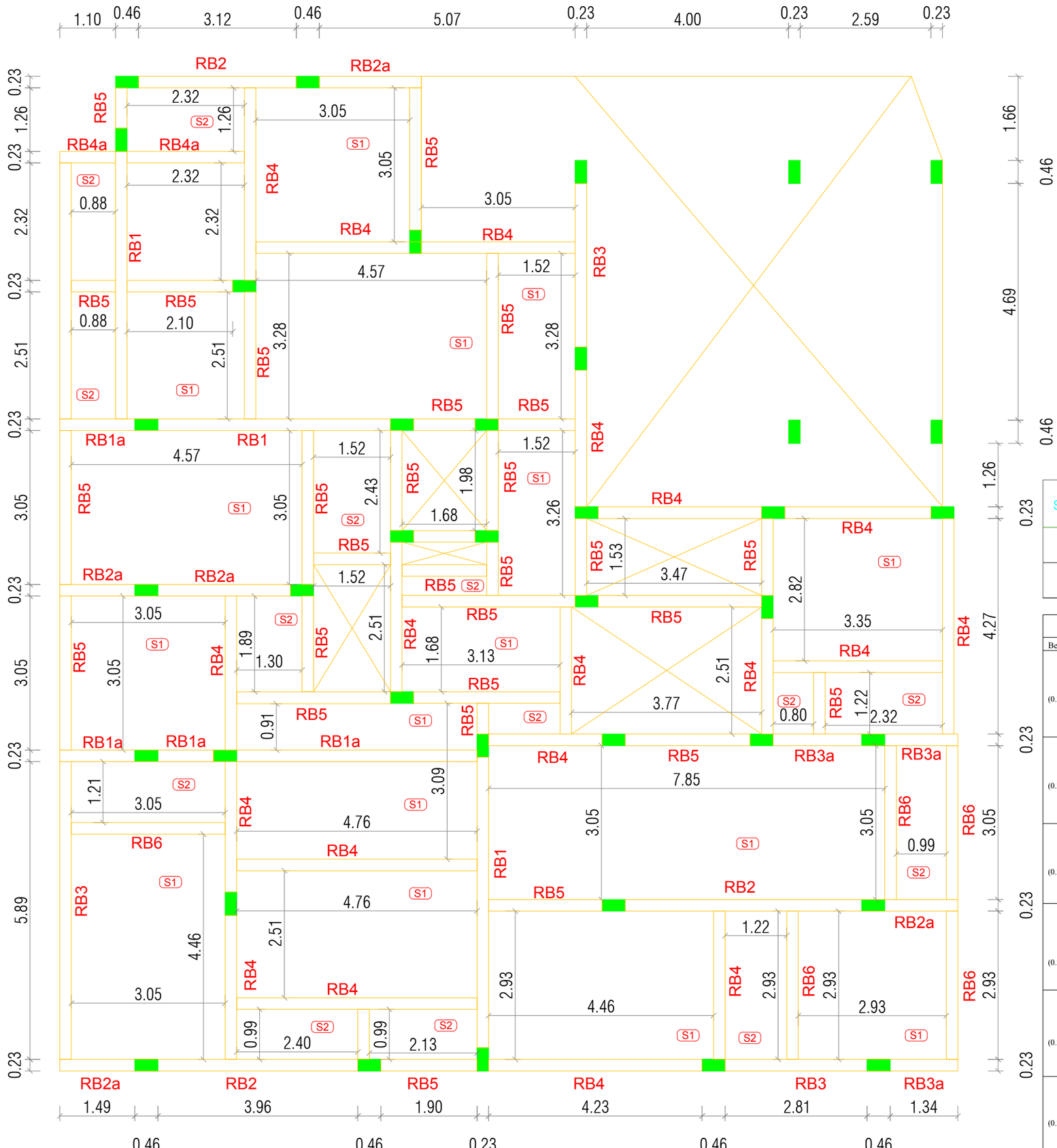
TYPICAL FLOOR
(STILT, FIRST, SECOND,
THIRD & FOURTH FLOOR)
ROOF BEAM AND SLAB DETAILS

STRUCTURAL ENGINEER

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Peelamedu, Coimbatore - 641 004.
Ph: 96550 08064

SHEET - 04





SLAB	TYPE	D	SLAB REINFORCEMENT	
			SHORT	LONG
S1	One way	0.15m	Y10@0.15C/C	Y8@0.2C/C
S2	Double Layer	0.15m	Y8@0.20C/C	Y8@0.2C/C

BEAM SECTION DETAILS

Beam No	Mid section	End section	Cantilever beam
RB1 (0.23x0.46)	0.23 / 0.46: 3Nos-20# top, 8# @ 0.10m c/c, 3Nos-20#ckd, 3Nos-20# st.	3Nos-20#, 3Nos-20#ckd, 8# @ 0.10m c/c, 3Nos-20# st.	RB1a: 6Nos-20#, 8# @ 0.10m c/c, 3Nos-20# st.
RB2 (0.23x0.46)	0.23 / 0.46: 3Nos-20# top, 8# @ 0.10m c/c, 3Nos-16#ckd, 3Nos-20# st.	3Nos-20#, 3Nos-16#ckd, 8# @ 0.10m c/c, 3Nos-20# st.	RB2a: 3Nos-20# +3Nos-16#, 8# @ 0.10m c/c, 3Nos-20# st.
RB3 (0.23x0.40)	0.23 / 0.40: 3Nos-16# top, 8# @ 0.10m c/c, 3Nos-16#ckd, 3Nos-16# st.	3Nos-16#, 3Nos-16#ckd, 8# @ 0.10m c/c, 3Nos-16# st.	RB3a: 6Nos-16#, 8# @ 0.10m c/c, 3Nos-16# st.
RB4 (0.23x0.40)	0.23 / 0.40: 2Nos-16# top, 8# @ 0.15m c/c, 2Nos-16#ckd, 2Nos-16# st.	2Nos-16#, 2Nos-16#ckd, 8# @ 0.15m c/c, 2Nos-16# st.	RB4a: 4Nos-16#, 8# @ 0.15m c/c, 2Nos-16# st.
RB5 (0.23x0.40)	0.23 / 0.40: 2Nos-16# top, 8# @ 0.15m c/c, 2Nos-16# st.	2Nos-16#, 8# @ 0.15m c/c, 2Nos-16# st.	
RB6 (0.23x0.40)	0.23 / 0.40: 2Nos-12# top, 8# @ 0.15m c/c, 2Nos-12#ckd, 2Nos-12# st.	2Nos-12#, 2Nos-12#ckd, 8# @ 0.15m c/c, 2Nos-12# st.	

Notes:

1) Use concrete mix 1:1½:3
2) Provide clear cover 25mm for Beam ¾ for Slab reinforcement.
3) Provide lap length 50D for Beam
4) Crank at L/4of clear span
5) Extra rod at top to a length of 0.3L of clear span from support
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8) # - Indicates Fe550 Steel dia in mm

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FIFTH FLOOR
ROOF BEAM AND SLAB DETAILS

STRUCTURAL ENGINEER

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