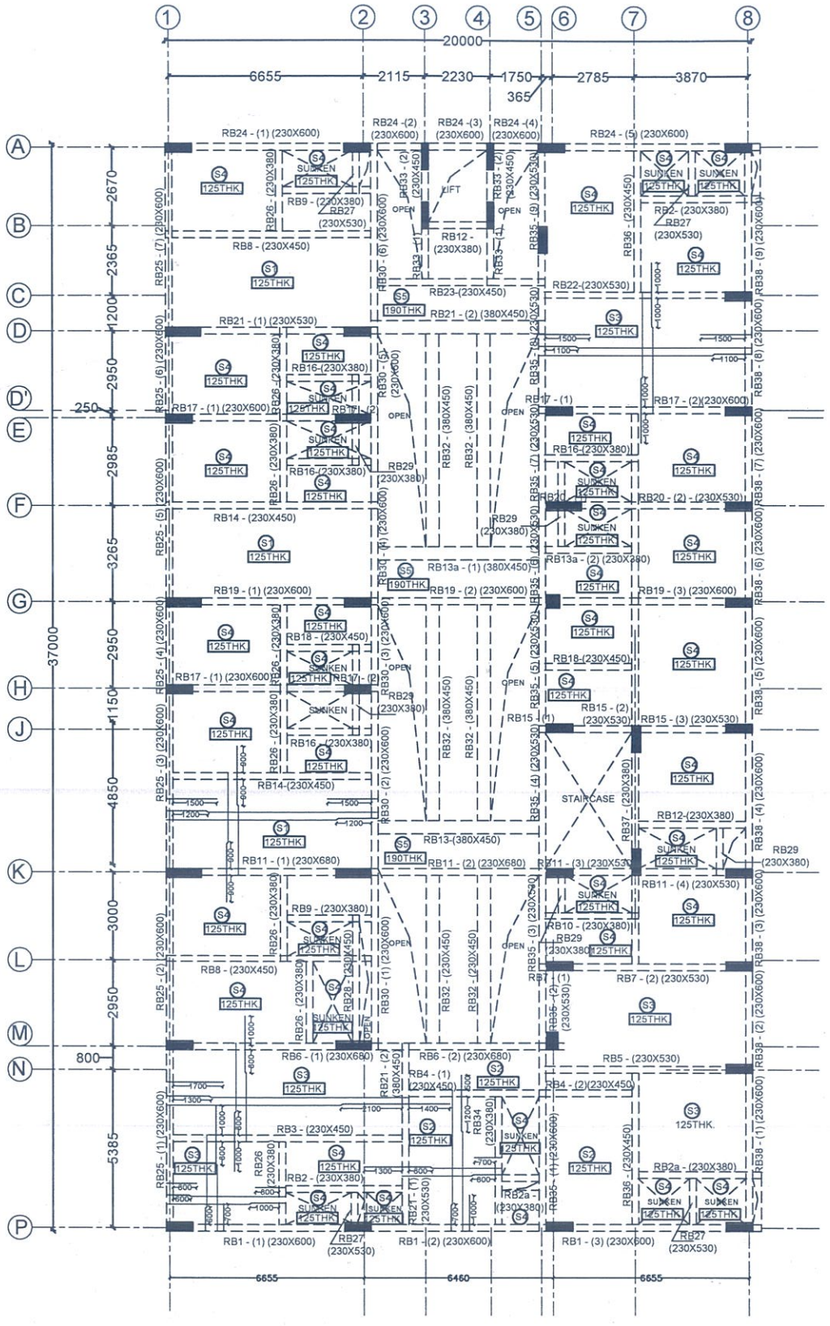
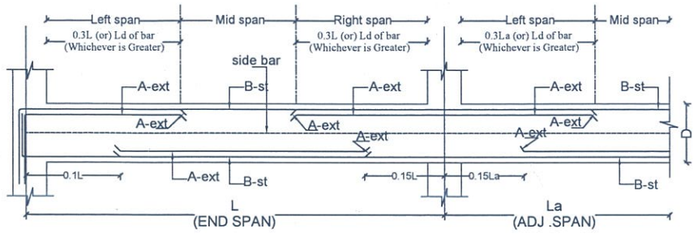


TYPICAL ROOF BEAM LAYOUT

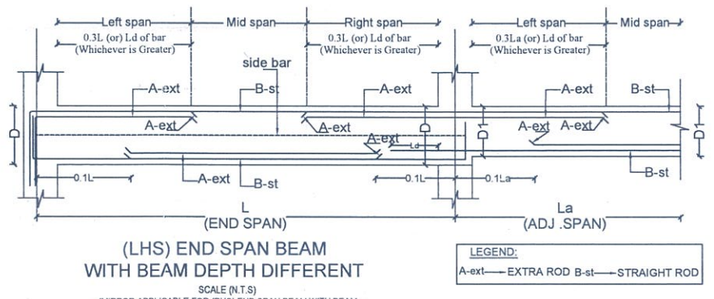


(LHS) END SPAN BEAM

SCALE (N.T.S)

(MIRROR APPLICABLE FOR (RHS) END SPAN BEAM)

LEGEND:
A-ext—— EXTRA ROD B-st—— STRAIGHT ROD

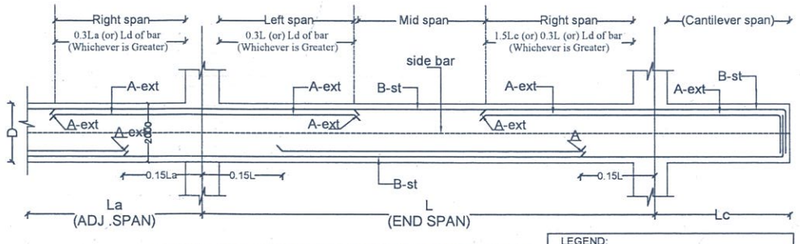


(LHS) END SPAN BEAM
WITH BEAM DEPTH DIFFERENT

SCALE (N.T.S)

(MIRROR APPLICABLE FOR (RHS) END SPAN BEAM WITH BEAM DEPTH DIFFERENT)

LEGEND:
A-ext—— EXTRA ROD B-st—— STRAIGHT ROD



(RHS) END SPAN BEAM WITH CANTILEVER

SCALE (N.T.S)

(MIRROR APPLICABLE FOR (LHS) END SPAN BEAM WITH CANTILEVER)

LEGEND:
A-ext—— EXTRA ROD B-st—— STRAIGHT ROD

SLAB SCHEDULE

NO:	NAME	THICKNESS	SHORTER SPAN	LONGER SPAN	REMARKS
01	S1	125	Y8@100c/c	Y8@200c/c	TWO WAY
02	S2	125	Y8@200c/c	Y8@200c/c	TWO WAY
03	S3	125	Y10@100c/c	Y10@200c/c	TWO WAY
04	S4	125	Y10@200c/c	Y10@200c/c	TWO WAY
05	S5	190	Y12@100c/c	Y10@200c/c	TWO WAY

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE:
    (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

REV	DATE	DESCRIPTION

PROJECT NAME:-

PROPOSED RESIDENCE CONDOMINIUM@ MAHABALIPURAM

DRAWING TITLE :-

TYPICAL ROOF BEAM LAYOUT

DRAWING NO. -

DATE	DESIGN	DRAWN	CHECKED
24.11.25	SS	SR	SS
SCALE - 1:100	SIZE - A1	SHEET -	REV. NO -

ARCHITECT :-

PENROSE
Architects & Interiors
P : +91-8939010753,+91-9003041919.
M : venkadesh@penrosearchitects.com
anjana@penrosearchitects.com

STRUCTURAL CONSULTANT :-

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai—600 032. PH: 9952046424.
EMAIL:—sounthar.associate81@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

GROUP	BEAM NUMBERS	SIZE		SPAN (Approximate)	BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SIDE BARS	REMARKS
		B	D		Left	Mid Span	Right	Left	Mid Span	Right	Left	Mid Span	Right		
RB1	RB1- (1)	230	600	6655	2-Y25st 2-Y25st	2-Y25st 2-Y25st	2-Y25st 2-Y25st	2-Y25st 2-Y16ext	2-Y25st	2-Y25st 2-Y16ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
	RB1- (2)	230	600	6460	2-Y25st	2-Y25st	2-Y25st	2-Y25st 2-Y16ext	2-Y25st	2-Y25st 2-Y25ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
	RB1- (3)	230	600	6655	2-Y25st 2-Y25st	2-Y25st 2-Y25st	2-Y25st 2-Y25st	2-Y25st 2-Y25ext	2-Y25st	2-Y25st 2-Y25ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
RB2	RB2	230	380	4220	4-Y16st	4-Y16st	4-Y16st	3-Y20st	3-Y20st	3-Y20st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB2a	RB2a	230	380	3870	4-Y16st	4-Y16st	4-Y16st	3-Y20st	3-Y20st	3-Y20st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB3	RB3	230	450	8070	2-Y25st 2-Y25st	2-Y25st 2-Y25st	2-Y25st 2-Y25st	2-Y25st 2-Y16ext	2-Y25st	2-Y25st 2-Y16ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
RB4	RB4- (1)	230	450	4680	3-Y16st	3-Y16st	3-Y16st	2-Y25st	2-Y25st	2-Y25st 1-Y25ext	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
	RB4- (2)	230	450	3150	2-Y16st	2-Y16st	2-Y16st	2-Y25st 1-Y25ext	2-Y25st	2-Y25st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB5	RB5	230	530	6655	3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y25st	2-Y25st	2-Y25st 4-Y25ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
RB6	RB6- (1)	230	680	6655	3-Y16st 3-Y16ext	3-Y16st 3-Y16ext	3-Y16st 3-Y16ext	2-Y25st 3-Y25ext	2-Y25st	2-Y25st 4-Y25ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
	RB6- (2)	230	680	6460	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y25st 4-Y25ext	2-Y25st	2-Y25st 3-Y25ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
RB7	RB7- (1)	230	530	480	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 4-Y20ext	2-Y20st 4-Y20ext	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB7- (2)	230	530	6655	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB8	RB8	230	450	7020	3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y16st 3-Y16ext	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB9	RB9	230	380	3120	3-Y16st	3-Y16st	3-Y16st	3-Y16st	3-Y16st	3-Y16st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB10	RB10	230	380	3150	3-Y12st	3-Y12st	3-Y12st	2-Y16st	2-Y16st	2-Y16st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB11	RB11- (1)	230	680		3-Y16st 3-Y20ext	3-Y16st 3-Y20ext	3-Y16st 3-Y20ext	2-Y25st 3-Y25ext	2-Y25st	2-Y25st 4-Y25ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
	RB11- (2)	230	680		3-Y16st 2-Y16st	3-Y16st 2-Y16st	3-Y16st 2-Y16st	2-Y25st 4-Y25ext	2-Y25st	2-Y25st 4-Y25ext	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
	RB11- (3)	230	530		3-Y16st	3-Y16st	3-Y16st	2-Y25st 4-Y25ext	2-Y25st	2-Y25st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB11- (4)	230	530		3-Y16st	3-Y16st	3-Y16st	2-Y25st	2-Y25st	2-Y25st 2-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB12	RB12	230	380		2-Y16st	2-Y16st	2-Y16st	2-Y16st	2-Y16st	2-Y16st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB13	RB13	380	450		4-Y25st	4-Y25st	4-Y25st	3-Y16st 2-Y16st	3-Y16st 2-Y16st	3-Y16st 2-Y16ext	2L-Y10@125c/c	2L-Y10@125c/c	2L-Y10@125c/c	NIL	--
RB13a	RB13a- (1)	380	450		3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	2-Y16st 2-Y16ext	2-Y16st	2-Y16st	2L-Y10@125c/c	2L-Y10@125c/c	2L-Y10@125c/c	NIL	--
	RB13a- (2)	230	380		3-Y12st	3-Y12st	3-Y12st	2-Y16st 4-Y16ext	2-Y16st	2-Y16st 2-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB14	RB14	230	450		3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y16st 3-Y16st	3-Y16st	3-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB15	RB15- (1)	230	530		3-Y16st	3-Y16st	3-Y16st	2-Y16st	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB15- (2)	230	530		3-Y16st	3-Y16st	3-Y16st	2-Y16st 3-Y16st	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB15- (3)	230	530		2-Y16st	2-Y16st	2-Y16st	2-Y16st 3-Y16st	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
RB16	RB16	230	380		3-Y12st	3-Y12st	3-Y12st	3-Y16st	3-Y16st	3-Y16st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB17	RB17- (1)	230	600		3-Y20st 2-Y20ext	3-Y20st 2-Y20ext	3-Y20st 2-Y20ext	2-Y25st 3-Y25ext	2-Y25st	2-Y25st 3-Y25ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB17- (2)	230	600		3-Y20st 2-Y20ext	3-Y20st 2-Y20ext	3-Y20st 2-Y20ext	2-Y25st 3-Y25ext	2-Y25st	2-Y25st 3-Y25ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB18	RB18	230	450		3-Y12st	3-Y12st	3-Y12st	3-Y12st	3-Y12st	3-Y12st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB19	RB19- (1)	230	600		3-Y16st 2-Y16st	3-Y16st 2-Y16st	3-Y16st 2-Y16st	2-Y25st 2-Y16ext	2-Y25st	2-Y25st 4-Y25ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB19- (2)	230	600		3-Y16st 2-Y16st	3-Y16st 2-Y16st	3-Y16st 2-Y16st	2-Y25st 4-Y25ext	2-Y25st	2-Y25st 4-Y25ext	2L-Y10@100c/c	2L-Y10@150c/c	2L-Y10@100c/c	NIL	--
	RB19- (3)	230	600		3-Y16st 2-Y16st	3-Y16st 2-Y16st	3-Y16st 2-Y16st	2-Y25st 4-Y25ext	2-Y25st	2-Y25st 2-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB20	RB20- (1)	230	530		4-Y20st	4-Y20st	4-Y20st	2-Y25st 4-Y20st	2-Y25st	2-Y25st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB20- (2)	230	530		4-Y20st	4-Y20st	4-Y20st	2-Y25st 4-Y20ext	2-Y25st	2-Y25st 2-Y25ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
RB21	RB21- (1)	230	530		3-Y16st 2-Y16st	3-Y16st 2-Y16st	3-Y16st 2-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 3-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB21- (2)	380	450		4-Y25st	4-Y25st	4-Y25st	2-Y20st 3-Y20ext	2-Y20st	2-Y20st 2-Y20ext	2L-Y12@100c/c	2L-Y12@100c/c	2L-Y12@100c/c	NIL	--
RB22	RB22	230	530		3-Y25st 3-Y20ext	3-Y25st 3-Y20ext	3-Y25st 3-Y20ext	2-Y25st 2-Y16ext	2-Y25st	2-Y25st 4-Y25ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
RB23	RB23	230	450		2-Y16st	2-Y16st	2-Y16st	4-Y16st	4-Y16st	4-Y16st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

REV	DATE	DESCRIPTION

PROJECT NAME:-

PROPOSED RESIDENCE CONDOMINIUM@ MAHABALIPURAM

DRAWING TITLE :-

TYPICAL ROOF BEAM LAYOUT & LS DETAILS -1

DRAWING NO. -

DATE	DESIGN	DRAWN	CHECKED
24.11.25	SS	SR	SS
SCALE - 1:100	SIZE - A1	SHEET -	REV. NO -

ARCHITECT :-

PENROSE
Architects & Interiors
P : +91-8939010753,+91-9003041919.
M : venkadesh@penrosearchitects.com
anjana@penrosearchitects.com

STRUCTURAL CONSULTANT :-

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai–600 032. PH: 9952046424.
EMAIL:–sounthar.associate81@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

GROUP	BEAM NUMBERS	SIZE		SPAN (Approximate)	BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SIDE BARS	REMARKS
		B	D		Left	Mid Span	Right	Left	Mid Span	Right	Left	Mid Span	Right		
RB24	RB24- (1)	230	600		4-Y20st	4-Y20st	4-Y20st	2-Y20st 2-Y25ext	2-Y20st	2-Y20st 3-Y25ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB24- (2)	230	600		4-Y20st	4-Y20st	4-Y20st	2-Y20st 3-Y25ext	2-Y20st	2-Y20st	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB24- (3)	230	600		3-Y20st	3-Y20st	3-Y20st	2-Y20st	2-Y20st	2-Y20st	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB24- (4)	230	600		3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	2-Y20st	2-Y20st	2-Y20st 4-Y25ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB24- (5)	230	600		3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	2-Y20st 4-Y25ext	2-Y20st	2-Y20st 4-Y25ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
RB25	RB25- (1)	230	600		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 3-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB25- (2)	230	600		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB25- (3)	230	600		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB25- (4)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB25- (5)	230	600		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB25- (6)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB25- (7)	230	600		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 3-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
RB26	RB26	230	380		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
RB27	RB27	230	530		3-Y25st	3-Y25st	3-Y25st	3-Y25st	3-Y25st	3-Y25st	2L-Y10@75c/c	2L-Y10@75c/c	2L-Y10@75c/c	NIL	--
RB28	RB28- (1)	230	450		3-Y20st	3-Y20st	3-Y20st	2-Y20st 3-Y20ext	2-Y20st	2-Y20st	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
	RB28- (2)	230	450		2-Y20st	2-Y20st	2-Y20st	2-Y20st	2-Y20st	2-Y20st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB29	RB29	230	380		3-Y20st	3-Y20st	3-Y20st	3-Y25st	3-Y25st	3-Y25st	2L-Y10@75c/c	2L-Y10@75c/c	2L-Y10@75c/c	NIL	--
RB30	RB30- (1)	230	600		3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y20st 3-Y20ext	2-Y20st	2-Y20st 4-Y25ext	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
	RB30- (2)	230	600		3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y20st 4-Y25ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
	RB30- (3)	230	600		2-Y20st	2-Y20st	2-Y20st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 3-Y25ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB30- (4)	230	600		3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y20st 3-Y25ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
	RB30- (5)	230	600		2-Y20st	2-Y20st	2-Y20st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB30- (6)	230	600		3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
RB31	RB31	230	530		4-Y25st	4-Y25st	4-Y25st	3-Y20st	3-Y20st	3-Y20st 2-Y20ext	2L-Y10@75c/c	2L-Y10@75c/c	2L-Y10@75c/c	NIL	--
RB32	RB32	380	450		3-Y25st 2-Y25st	3-Y25st 2-Y25st	3-Y25st 2-Y25st	3-Y25st 2-Y25st	3-Y25st 2-Y25st	3-Y25st 2-Y25st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB33	RB33-(1)	230	450		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y25st 2-Y25st	3-Y25st 2-Y25st	3-Y25st 2-Y25st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB33-(2)	230	450		3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y16st 3-Y16st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
RB34	RB34	230	380		3-Y20st	3-Y20st	3-Y20st	3-Y12st	3-Y12st	3-Y12st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB35	RB35- (1)	230	600		3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y20st 2-Y20ext	2-Y20st	2-Y20st 4-Y25ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (2)	230	530		2-Y20st	2-Y20st	2-Y20st	2-Y20st 4-Y25ext	2-Y20st	2-Y20st 1-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (3)	230	530		2-Y20st	2-Y20st	2-Y20st	2-Y20st 1-Y16ext	2-Y20st	2-Y20st 3-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (4)	230	530		4-Y20st	4-Y20st	4-Y20st	2-Y20st 3-Y20ext	2-Y20st	2-Y20st 3-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (5)	230	530		2-Y20st	2-Y20st	2-Y20st	2-Y20st 3-Y20ext	2-Y20st	2-Y20st 2-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (6)	230	530		2-Y20st	2-Y20st	2-Y20st	2-Y20st 2-Y20ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (7)	230	530		3-Y20st 3-Y20st	3-Y20st 3-Y20st	3-Y20st 3-Y20st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st 4-Y25ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (8)	230	530		3-Y20st	3-Y20st	3-Y20st	2-Y20st 4-Y25ext	2-Y20st	2-Y20st 2-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--
	RB35- (9)	230	530		3-Y20st	3-Y20st	3-Y20st	2-Y20st 2-Y16ext	2-Y20st	2-Y20st 2-Y16ext	2L-Y8@100c/c	2L-Y8@100c/c	2L-Y8@100c/c	NIL	--

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

REV	DATE	DESCRIPTION

PROJECT NAME:-

PROPOSED RESIDENCE CONDOMINIUM@ MAHABALIPURAM

DRAWING TITLE :-

TYPICAL ROOF BEAM LAYOUT & LS DETAILS -2

DRAWING NO. -

DATE	DESIGN	DRAWN	CHECKED
24.11.25	SS	SR	SS
SCALE - 1:100	SIZE - A1	SHEET -	REV. NO -

ARCHITECT :-

PENROSE
Architects & Interiors
P : +91-8939010753,+91-9003041919.
M : venkadesh@penrosearchitects.com
anjana@penrosearchitects.com

STRUCTURAL CONSULTANT :-

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai–600 032. PH: 9952046424.
EMAIL:–sounthar.associate81@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No.CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

GROUP	BEAM NUMBERS	SIZE		SPAN (Approximate)	BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SIDE BARS	REMARKS
		B	D		Left	Mid Span	Right	Left	Mid Span	Right	Left	Mid Span	Right		
RB36	RB36	230	450		3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y20st 2-Y20st	3-Y16st	3-Y16st	3-Y16st	2L-Y10@100c/c	2L-Y10@100c/c	2L-Y10@100c/c	NIL	--
RB37	RB37- (1)	230	380		2-Y16st	2-Y16st	2-Y16st	2-Y20st	2-Y20st	2-Y20st 3-Y25ext	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
	RB37- (2)	230	530		3-Y20st	3-Y20st	3-Y20st	2-Y20st 3-Y25ext	2-Y20st	2-Y20st 4-Y20ext	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
	RB37- (3)	230	380		3-Y16st	3-Y16st	3-Y16st	2-Y20st 4-Y20ext	2-Y20st	2-Y20st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
	RB37- (4)	230	380		2-Y16st	2-Y16st	2-Y16st	2-Y20st	2-Y20st	2-Y20st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
	RB37- (5)	230	380		2-Y16st	2-Y16st	2-Y16st	2-Y20st	2-Y20st	2-Y20st	2L-Y8@125c/c	2L-Y8@125c/c	2L-Y8@125c/c	NIL	--
RB38	RB38- (1)	230	600		3-Y16st 3-Y16ext	3-Y16st 3-Y16ext	3-Y16st 3-Y16ext	2-Y16st 4-Y16ext	2-Y16st	2-Y16st 4-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (2)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y16st 4-Y16ext	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (3)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y16st 3-Y16ext	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (4)	230	600		3-Y16st	3-Y16st	3-Y16st	2-Y16st 3-Y16ext	2-Y16st	2-Y16st 3-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (5)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y16st 3-Y16ext	2-Y16st	2-Y16st 2-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (6)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y16st 2-Y16ext	2-Y16st	2-Y16st 2-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (7)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y16st 2-Y16ext	2-Y16st	2-Y16st 2-Y16ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (8)	230	600		2-Y16st	2-Y16st	2-Y16st	2-Y16st 2-Y16ext	2-Y16st	2-Y16st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--
	RB38- (9)	230	600		3-Y16st 3-Y16ext	3-Y16st 3-Y16ext	3-Y16st 3-Y16ext	2-Y16st 4-Y20ext	2-Y16st	2-Y16st 4-Y20ext	2L-Y8@100c/c	2L-Y8@150c/c	2L-Y8@100c/c	NIL	--

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

REV	DATE	DESCRIPTION

PROJECT NAME:-

PROPOSED RESIDENCE CONDOMINIUM@ MAHABALIPURAM

DRAWING TITLE :-

TYPICAL ROOF BEAM LAYOUT & LS DETAILS -3

DRAWING NO. -

DATE	DESIGN	DRAWN	CHECKED
24.11.25	SS	SR	SS
SCALE - 1:100	SIZE - A1	SHEET -	REV. NO -

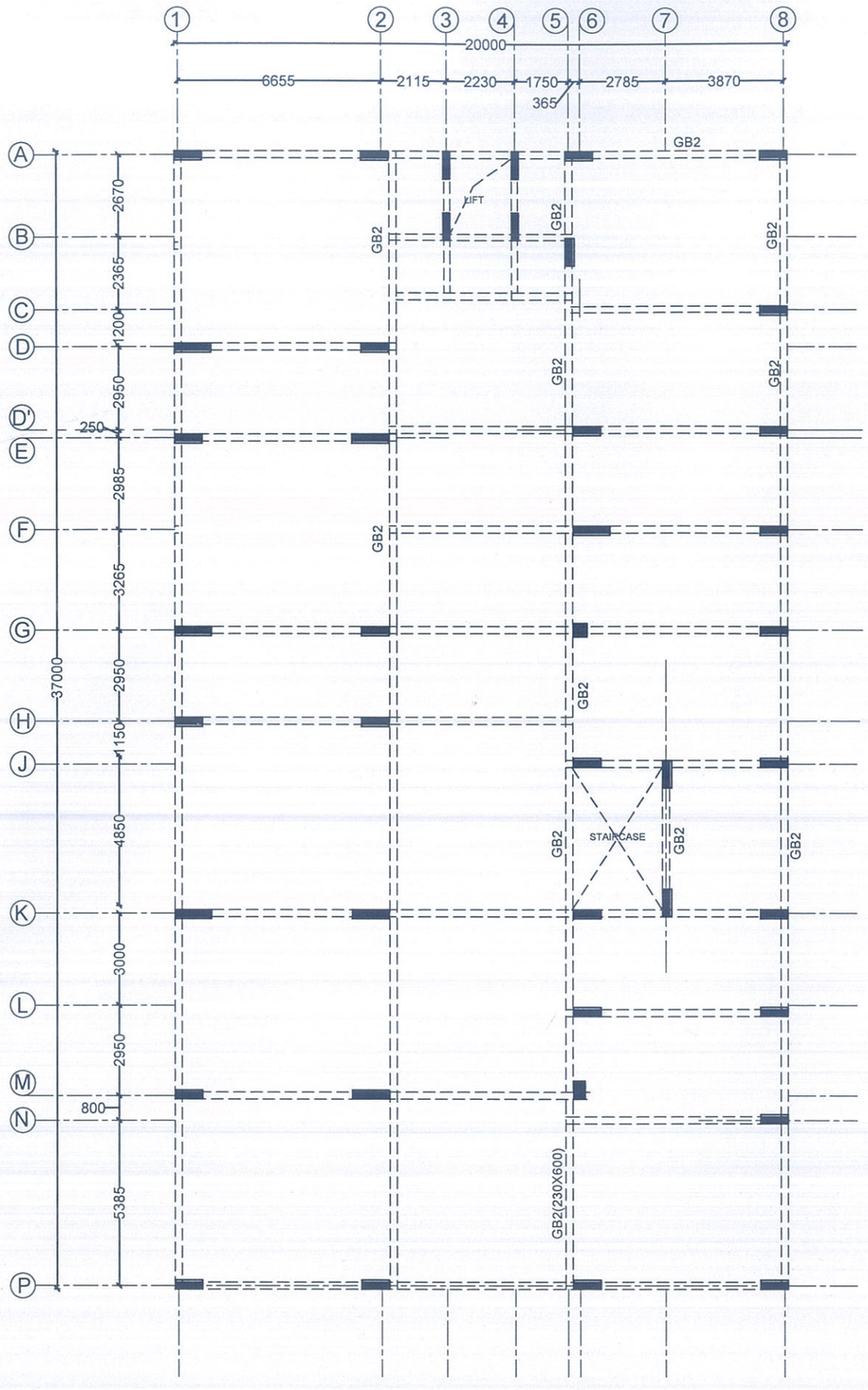
ARCHITECT :-

PENROSE
Architects & Interiors
P : +91-8939010753,+91-9003041919.
M : venkadesh@penrosearchitects.com
anjana@penrosearchitects.com

STRUCTURAL CONSULTANT :-

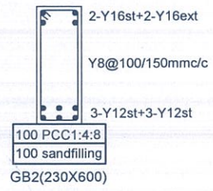
SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai–600 032. PH: 9952046424.
EMAIL:–sounthar.associate81@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No.CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

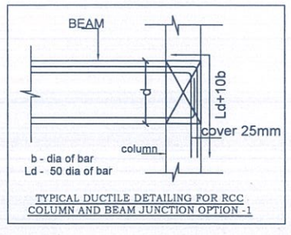


GRADE BEAM LAYOUT

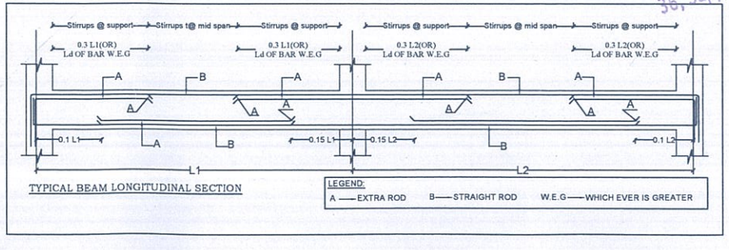
REMAINING ALL
GRADE BEAM
GB1(230X600)



GB2(230X600)



TYPICAL DUCTILE DETAILING FOR RCC
COLUMN AND BEAM JUNCTION OPTION -1



TYPICAL BEAM LONGITUDINAL SECTION

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

REV	DATE	DESCRIPTION

PROJECT NAME:-

PROPOSED RESIDENCE CONDOMINIUM@
MAHABALIPURAM

DRAWING TITLE :-

GRADE BEAM LAYOUT & DETAILS

DRAWING NO. -

DATE	DESIGN	DRAWN	CHECKED
24.11.25	SS	SR	SS
SCALE - 1:100	SIZE - A2	SHEET -	REV. NO -

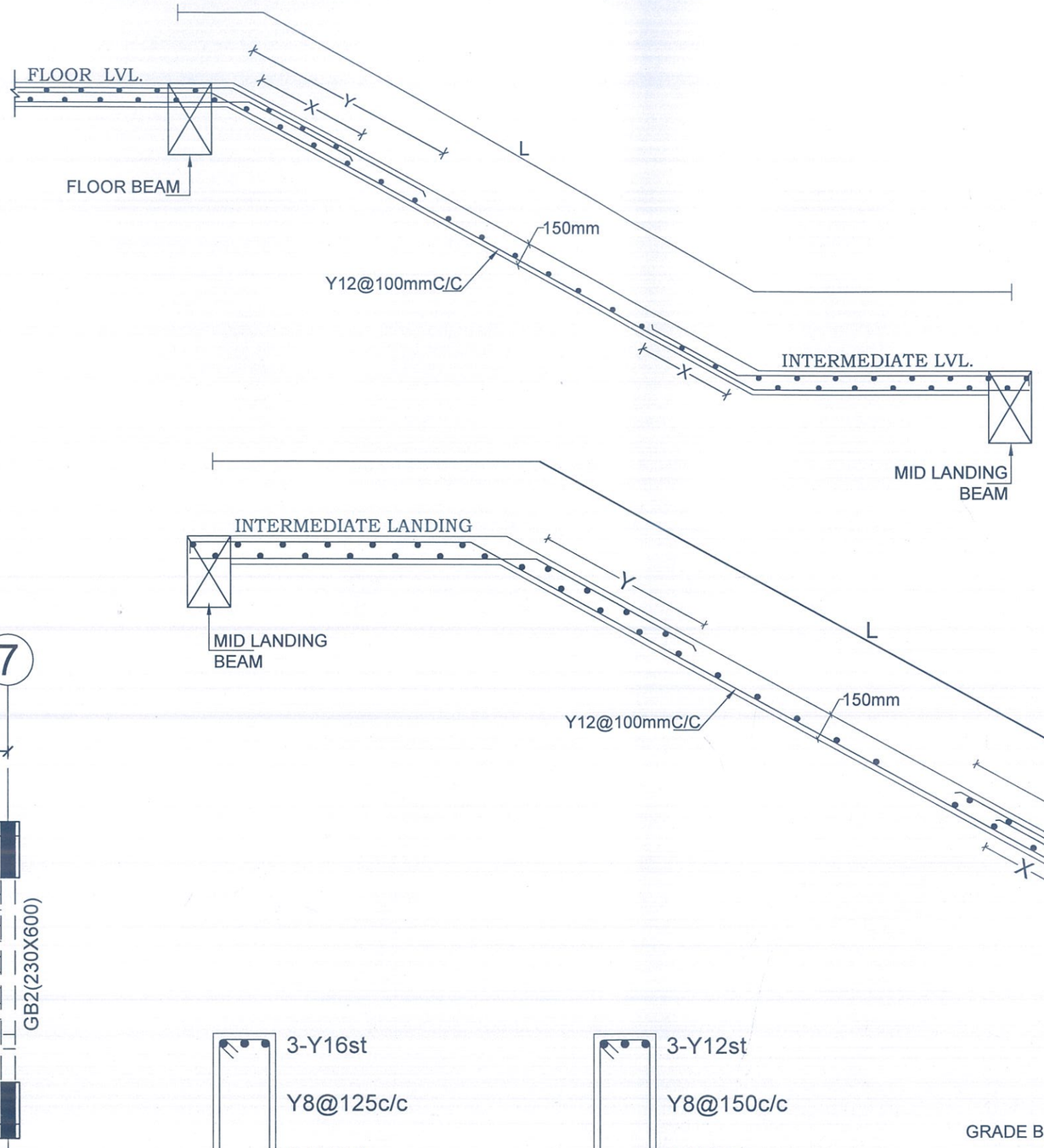
S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No:CGLRGN/SE(Gr-I)/2[illegible]3/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

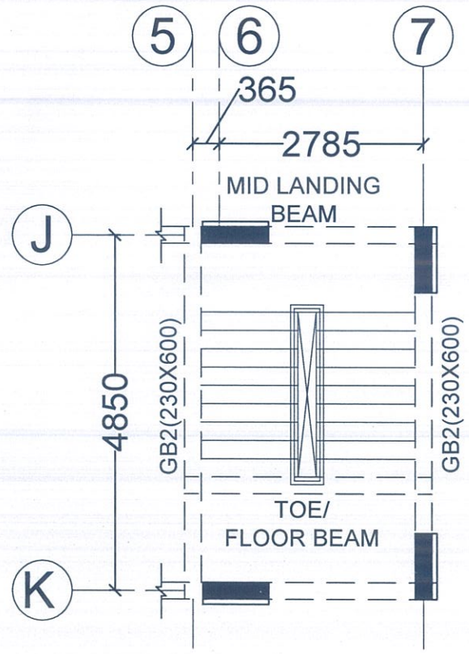
ARCHITECT :-

PENROSE
Architects & Interiors
P : +91-8939010753,+91-9003041919.
M : venkadesh@penrosearchitects.com
anjana@penrosearchitects.com

STRUCTURAL CONSULTANT :-

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai—600 032. PH: 9952046424.
EMAIL:—sounthar.associate81@gmail.com





STAIRCASE LAYOUT

MID LANDING
BEAM (230X450)

TOE BEAM
(230X380)

NOTES:
Dist.reinforcement Y8@175mmc/c

NOTES:
X-greater of 0.15L or Ld
Y-greater of Ld or 0.3L

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

REV	DATE	DESCRIPTION

PROJECT NAME:-

PROPOSED RESIDENCE CONDOMINIUM@ MAHABALIPURAM

DRAWING TITLE :-

GRADE BEAM LAYOUT & DETAILS

DRAWING NO. -

DATE	DESIGN	DRAWN	CHECKED
24.11.25	SS	SR	SS
SCALE - 1:100	SIZE - A4	SHEET -	REV. NO -

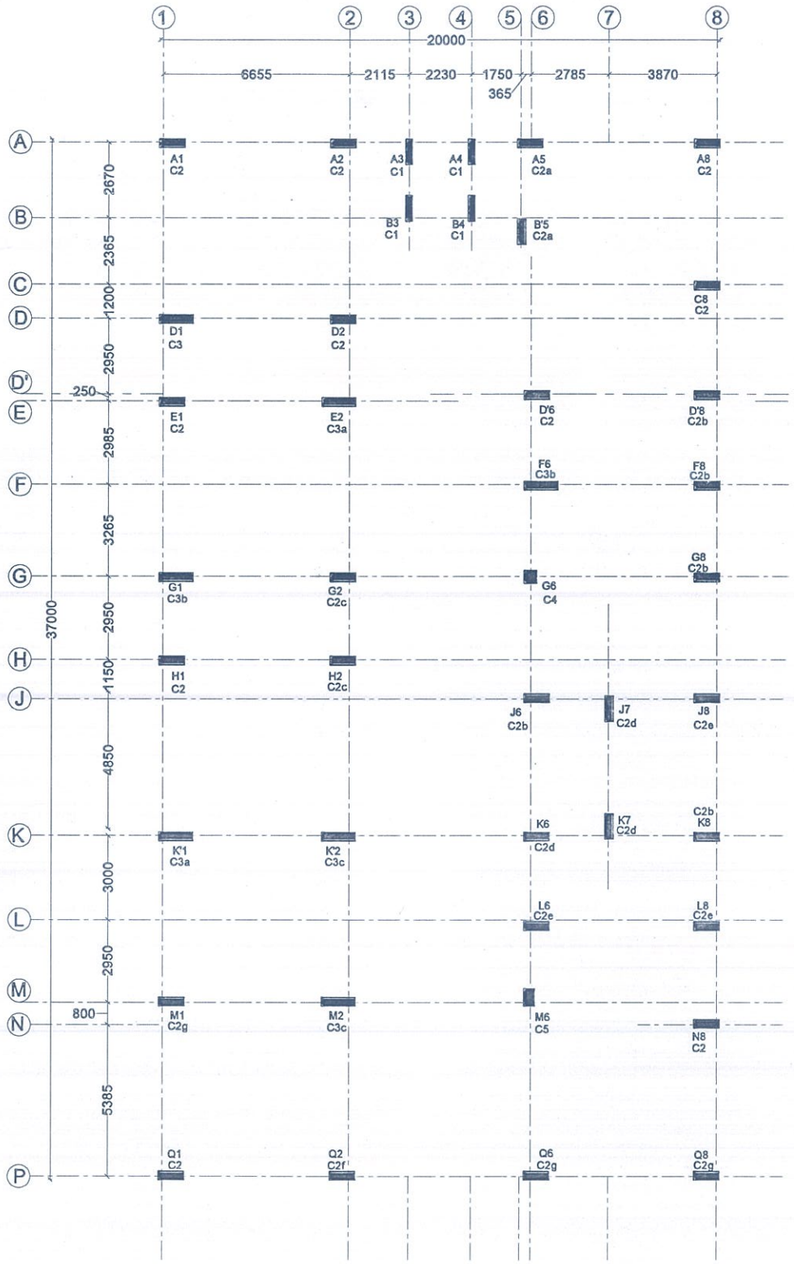
ARCHITECT :-

PENROSE
Architects & Interiors
P : +91-8939010753,+91-9003041919.
M : venkadesh@penrosearchitects.com
anjana@penrosearchitects.com

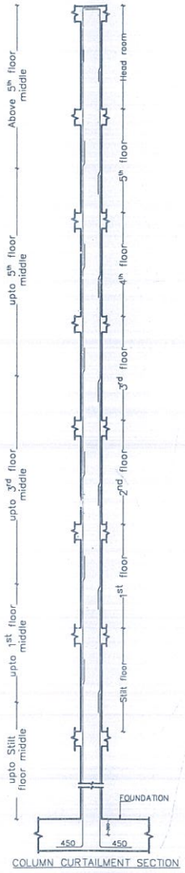
STRUCTURAL CONSULTANT :-

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai–600 032. PH: 9952046424.
EMAIL:–sounthar.associate81@gmail.com

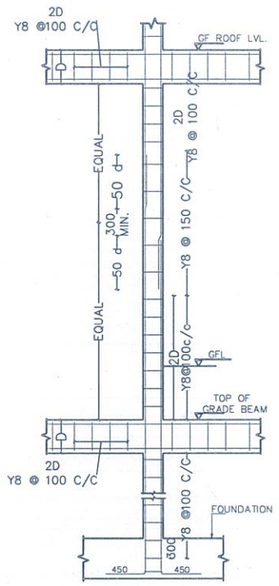
S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424



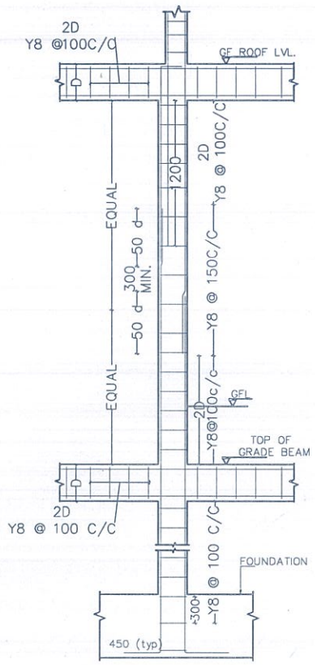
COLUMN LAYOUT



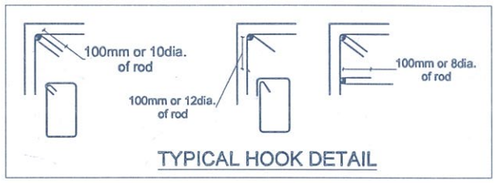
COLUMN CURTAILMENT SECTION



TYPICAL LONGITUDINAL DETAIL OF COLUMN



TYPICAL LONGITUDINAL DETAIL OF COLUMN
SIZE REDUCED



TYPICAL HOOK DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M30 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (I)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

RK	SS	IB APPROVAL		
DRAWN	CHKD & APPD.	CHKD	APPD.	

STRUCTURAL CONSULTANT :

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai-600 032. PH:
9952046424.
EMAIL: -sounthar.associate81@gmail.com

S. SOUNDRAPANDIAN, M.E.Structur
SE Grade-I DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/
98, Suppa Colony, Guindy, Ch-32. 9952046

PROMOTERS:

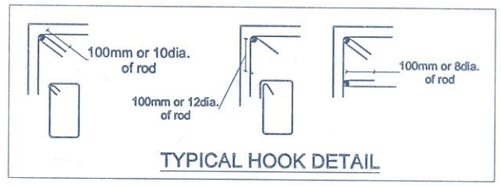
TITLE : PROPOSED RESIDENTIAL CONDOMINIUM & MAHABALIPURAM (S+5)-COLUMN LAYOUT

SIZE : A2	SCALE : 1:100
DWGNO:	
DATE :14.10.2025	REV.DATE :
	NO OF REVISIONS : 00

SL. NO	COLUMN GRID NO	COLUMN NAME	COLUMN SIZE	UPTO MIDDLE OF STILT FLOOR	UPTO MIDDLE OF FIRST FLOOR	UPTO MIDDLE OF THIRD FLOOR	UPTO MIDDLE OF FIFTH FLOOR	ABOVE MIDDLE OF FIFTH FLOOR
01	A3,A4, B3,B4	C1	(230X900)	∘ 6-Y16 ∘ 6-Y12 (230x900)	SAME	SAME	SAME	SAME
02	A1,D2 A2,A8, E1,H1, C8,D6 H8,G1	C2	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘10-Y16 ∘ 2-Y12 (300x900)	∘ 12-Y20 (230x900)	SAME	∘ 8-Y25 ∘ 4-Y20 (230x900)	SAME
03	A5,B'5	C2a	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘ 10-Y12 ∘ 2-Y16 (300x900)	∘ 12-Y16 (230x900)	SAME	SAME	SAME
04	D'8, F8,G8, K8,J8	C2b	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘10-Y16 ∘ 2-Y12 (300x900)	∘10-Y16 ∘ 2-Y12 (230x900)	∘ 4-Y20 ∘ 8-Y16 (230x900)	SAME	SAME
05	G2,H2	C2c	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘ 12-Y20 (300x900)	∘ 8-Y25 ∘ 4-Y20 (230x900)	∘ 8-Y20 ∘ 4-Y16 (230x900)	SAME	SAME
06	J7,K6, K7	C2d	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘ 8-Y20 ∘ 4-Y12 (300x900)	∘ 8-Y20 ∘ 4-Y12 (230x900)	∘ 8-Y16 ∘ 4-Y12 (230x900)	SAME	SAME
07	J8,L6, L8	C2e	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘ 6-Y16 ∘ 6-Y12 (300x900)	∘ 6-Y16 ∘ 6-Y12 (230x900)	∘ 4-Y16 ∘ 8-Y12 (230x900)	SAME	SAME
08	Q2	C2f	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘14-Y25 (300x900)	∘14-Y25 (230x900)	∘14-Y20 (230x900)	SAME	SAME
09	Q6,Q8 ,M1	C2g	(300x900) UPTO FIRST FLOOR (230X900) ABOVE FIRST FLOOR	∘12-Y16 (300x900)	∘ 4-Y25 ∘ 8-Y20 (230x900)	∘10-Y20 ∘ 2-Y16 (230x900)	SAME	SAME

SL. NO	COLUMN GRID NO	COLUMN NAME	COLUMN SIZE	UPTO MIDDLE OF STILT FLOOR	UPTO MIDDLE OF FIRST FLOOR	UPTO MIDDLE OF THIRD FLOOR	UPTO MIDDLE OF FIFTH FLOOR	ABOVE MIDDLE OF FIFTH FLOOR
10	D1	C3	(300x1200) UPTO FIRST FLOOR (230X1200) ABOVE FIRST FLOOR	∘ 8-Y16 ∘ 4-Y12 (300x1200)	∘ 8-Y16 ∘ 4-Y12 (230x1200)	SAME	∘ 4-Y25 ∘ 8-Y20 (230x1200)	SAME
11	E2,K1	C3a	(300x1200) UPTO FIRST FLOOR (230X1200) ABOVE FIRST FLOOR	∘10-Y20 ∘ 2-Y16 (300x1200)	∘10-Y20 ∘ 2-Y16 (230x1200)	∘12-Y12 (230x1200)	SAME	SAME
12	F6,G1	C3b	(300x1200) UPTO FIRST FLOOR (230X1200) ABOVE FIRST FLOOR	∘ 8-Y16 ∘ 4-Y20 (300x1200)	∘ 8-Y16 ∘ 4-Y20 (230x1200)	∘ 8-Y16 ∘ 4-Y12 (230x1200)	SAME	SAME
13	K'2,M2	C3c	(300x1200) UPTO FIRST FLOOR (230X1200) ABOVE FIRST FLOOR	∘10-Y25 ∘ 2-Y20 (300x1200)	∘10-Y25 ∘ 2-Y20 (230x1200)	∘10-Y16 ∘ 2-Y16 (230x1200)	SAME	SAME

SL. NO	COLUMN GRID NO	COLUMN NAME	COLUMN SIZE	UPTO MIDDLE OF STILT FLOOR	UPTO MIDDLE OF FIRST FLOOR	UPTO MIDDLE OF THIRD FLOOR	UPTO MIDDLE OF FIFTH FLOOR	ABOVE MIDDLE OF FIFTH FLOOR
14	G6	C4	(450X450)	∘ 12-Y20 (450x450)	∘ 12-Y20 (450x450)	∘ 4-Y16 ∘ 8-Y12 (450x450)	∘ 12-Y12 (450x450)	SAME
15	M6	C5	(450x530) UPTO FIRST FLOOR (450X530) ABOVE FIRST FLOOR	∘ 4-Y32 ∘ 8-Y25 (450x530)	∘ 4-Y32 ∘ 8-Y25 (450x530)	∘ 4-Y25 ∘ 8-Y20 (450x530)	SAME	SAME



TYPICAL HOOK DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M30 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

RK	SS	IB APPROVAL	
DRAWN	CHKD & APPD.	CHKD	APPD.

STRUCTURAL CONSULTANT :

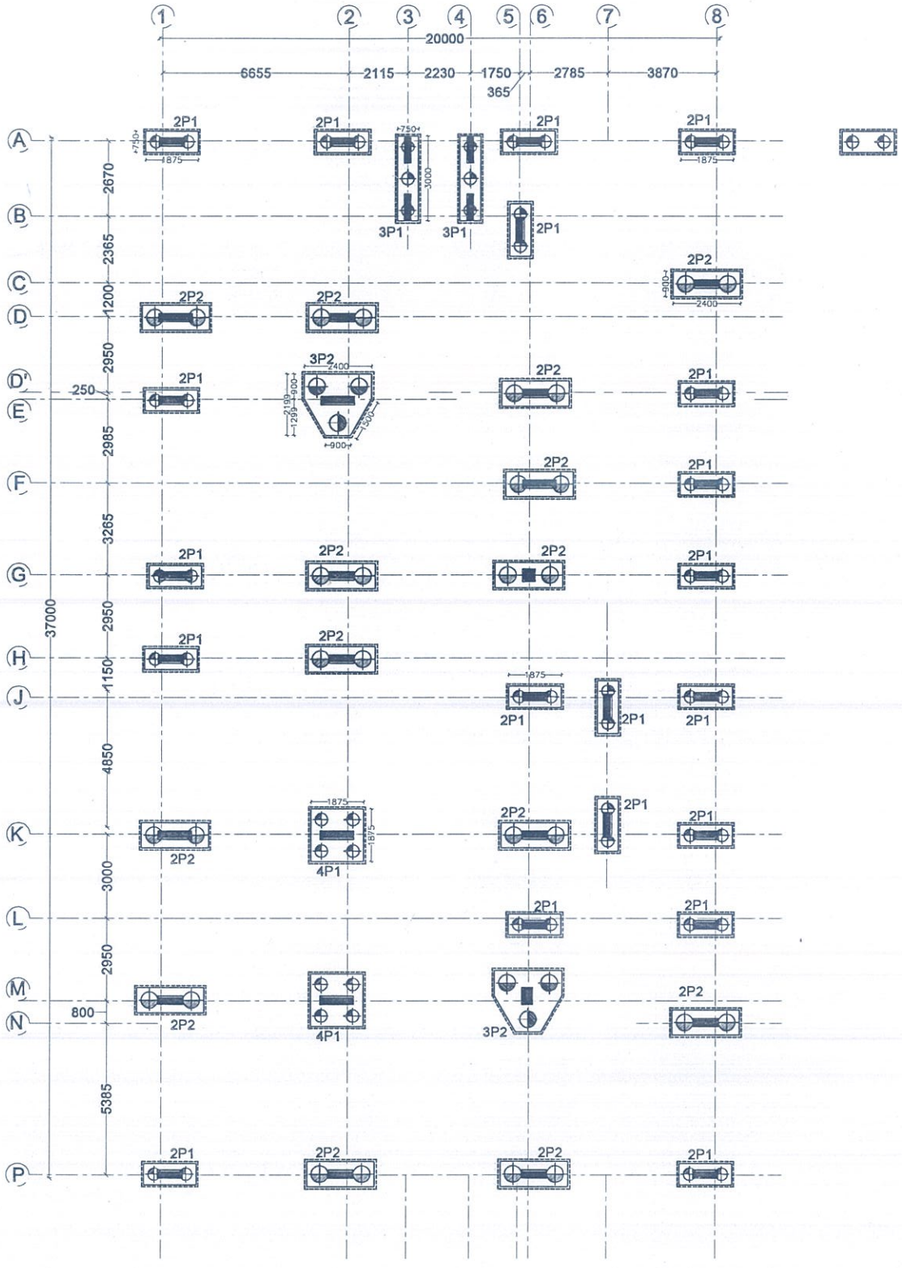
SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai–600 032. PH:
9952046424.
EMAIL: –sounthar.associate87@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
Grade I DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

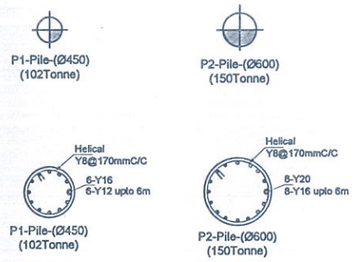
PROMOTERS:

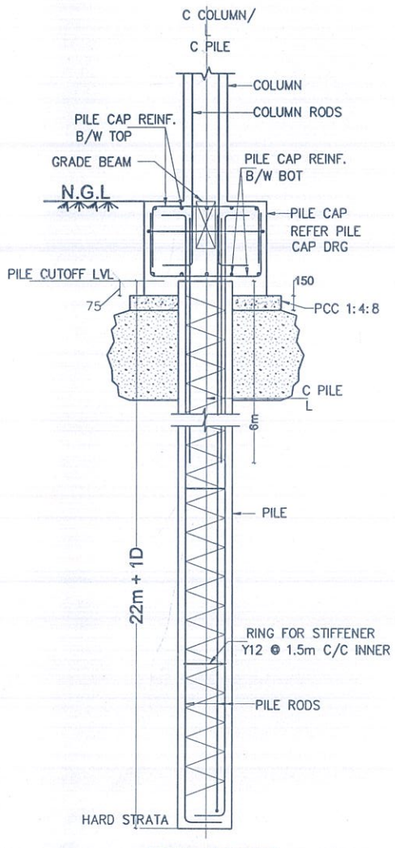
TITLE : PROPOSED RESIDENTIAL CONDOMINIUM & MAHABALIPURAM (S+5)–COLUMN SCHEDULE

SIZE : A2	SCALE : 1:100
DWGNO:	
DATE :14.10.2025	REV.DATE :
	NO OF REVISIONS : 00



PILE LAYOUT

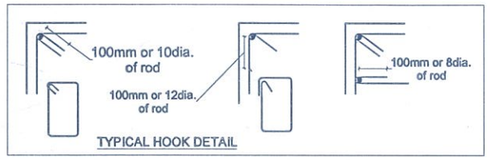




SECTION THRU' PILE

NOTE

Check the pile soundeness through pile integerity test.



TYPICAL HOOK DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M30 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.

RK	SS	IB APPROVAL		
DRAWN	CHKD & APPD.	CHKD	APPD.	

STRUCTURAL CONSULTANT :

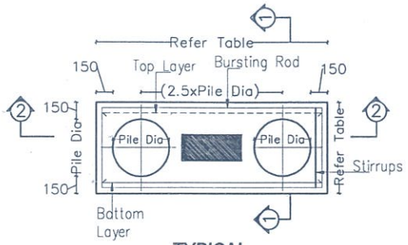
SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai-600 032. PH:
9952046424.
EMAIL: -sounthar.associate81@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-I DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

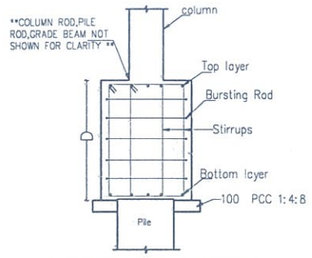
PROMOTERS:

TITLE :
PROPOSED RESIDENTIAL CONDOMINIUM & MAHABALIPURAM (S+5)- PILE LAYOUT

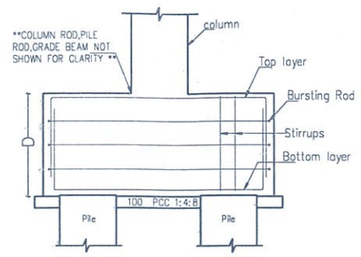
SIZE : A2	SCALE : 1:100
DWGNO:	
DATE :14.10.2025	REV.DATE :
	NO OF REVISIONS : 00



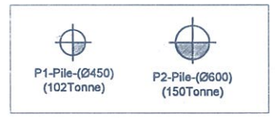
TYPICAL PLAN -2P1,2P2



SECTION–1 OF–2P1,2P2

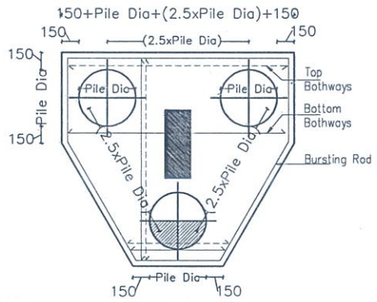


SECTION–2 OF–2P1,2P2

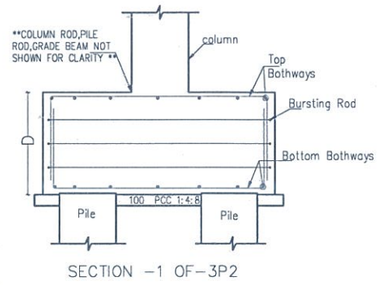


NOTES: –

**COLUMN ROD,PILE ROD,GRADE BEAM NOT SHOWN FOR CLARITY **



TYPICAL PLAN -3P2

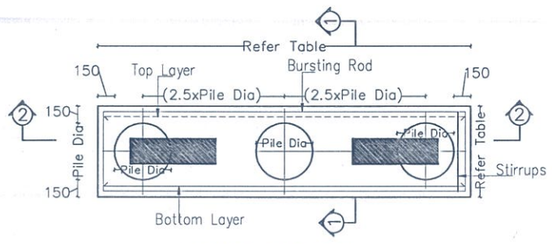


SECTION –1 OF–3P2

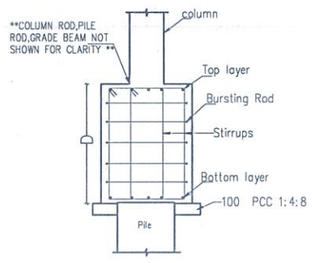
PILE CAP SCHEDULE						
NAME	SIZE	SIZE	BOTTOM ROD	TOP ROD	BURSTING ROD	STIRRUPS
2P1	(750x1875)	1000	7-Y16	7-Y12	Y10@120c/c	4L -10@150mmc/c
2P2	(900x2400)	1300	8-Y20	8-Y12	Y10@120c/c	4L -10@150mmc/c
3P1	(750x3000)	1000	Y16@90c/c b/w	Y12@90c/c b/w	Y10@120c/c	4L -10@150mmc/c
3P2	Refer Layout	1200	Y20@120c/c b/w	Y12@120c/c b/w	Y10@120c/c	NIL
4P1	(1875x1875)	1000	Y16@100c/c b/w	Y12@100c/c b/w	Y10@120c/c	NIL

NOTES:

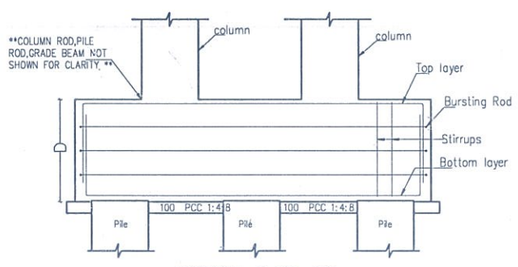
1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS INDICATED.
2. THIS DRAWING SHALL BE READ ALONG WITH THE ARCHITECTURAL DRAWINGS.
3. THE CONCRETE MIX SHALL BE M35 DESIGN MIX FOR ALL RCC WORKS.
4. ALL CONC. WORK SHALL BE MACHINE MIXED & VIBRATED.
5. ALL CONC. WORK SHALL BE CURED FOR MIN. 14 DAYS.
6. IF ANY AMBIGUITY FOUND IN DRAWINGS OR DETAILS PLEASE CONTACT US BEFORE CONCRETING.
7. PROPER WORKMANSHIP & STRENGTH OF MATERIALS IS NOT STRUCTURAL ENGINEER'S RESPONSIBILITY.
8. APPLY CONC. BONDING AGENT AT EACH CONSTRUCTION JOINT.
9. ANY DISCREPANCY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER WELL BEFORE EXECUTION.
10. BOTTOM OF ALL FOUNDATIONS MUST BE AT SAME LEVEL.
11. CLEAR COVER TO THE OUTERMOST REINFORCEMENT IS TO BE: (i)40mm COLUMN (ii)50mm FOR FOOTING (iii)30mm FOR BEAM
12. Ld IS EQUAL TO 50 TIMES OF DIAMETER OF THE BAR.
13. GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
14. FOUNDATION IS TO BE DESIGNED AS PER SOIL REPORT
15. THIS STRUCTURE IS DESIGNED FOR STILT+5 ONLY.



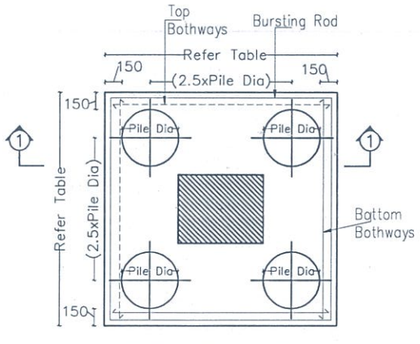
TYPICAL PLAN -3P1



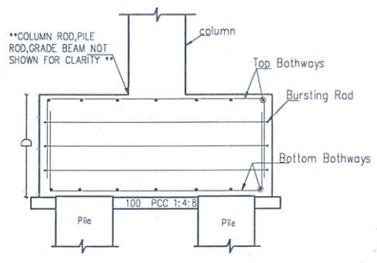
SECTION–1 OF–3P1



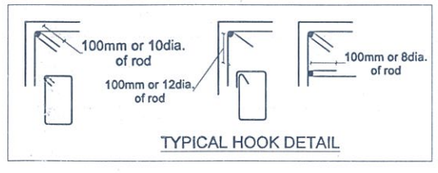
SECTION–2 OF–3P1



TYPICAL PLAN -4P1



SECTION– 1 OF–4P1



TYPICAL HOOK DETAIL

RK	SS	IB APPROVAL		
DRAWN	CHKD & APPD.	CHKD	APPD.	

STRUCTURAL CONSULTANT :

SOUNTHAR ASSOCIATES
No.11/1, Chakrapani Road,
Maduvinkarai, Guindy,
Chennai–600 032. PH:
9952046424.
EMAIL: –sounthar.associates@gmail.com

S. SOUNDRAPANDIAN, M.E.Structural
SE Grade-1 DTCP (R.No:CGLRGN/SE/Gr-I/2019/06/15)
36, Suppa Colony, Guindy, Ch-32. 9952046424

PROMOTERS:

TITLE : PROPOSED RESIDENTIAL CONDOMINIUM & MAHABALIPURAM (S+5)–PILECAP DETAILS

SIZE : A2	SCALE : 1:100
DWGNO:	
DATE : 03.11.2025	REV.DATE :
	NO OF REVISIONS : 00