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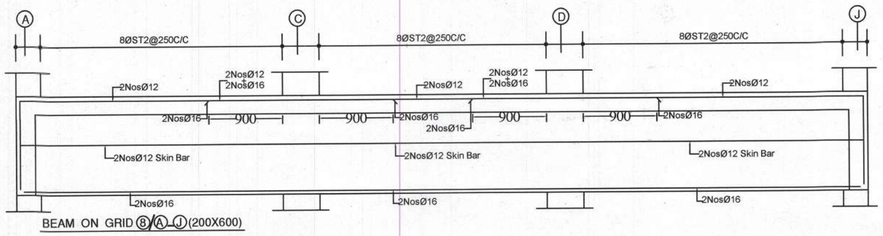
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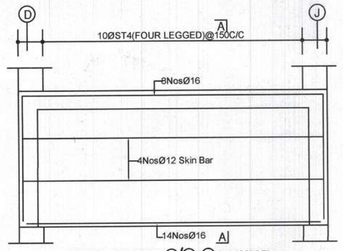
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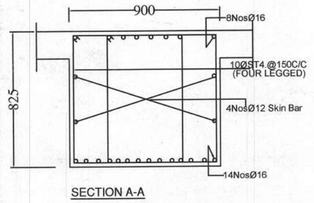
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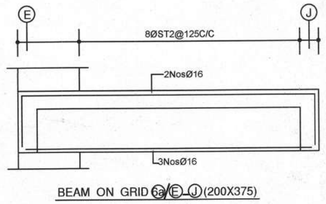
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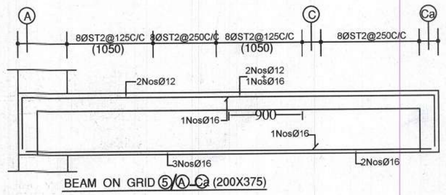
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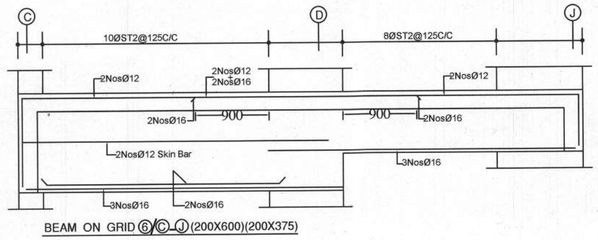
SECTION A-A



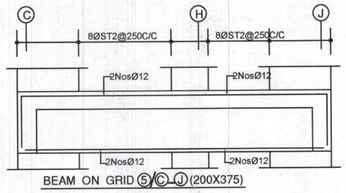
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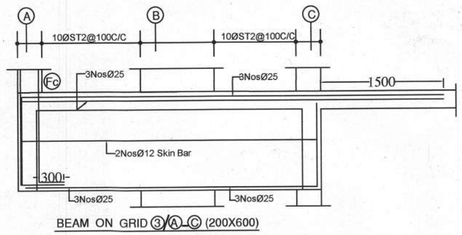
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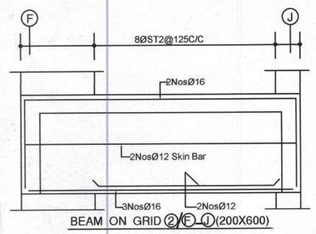
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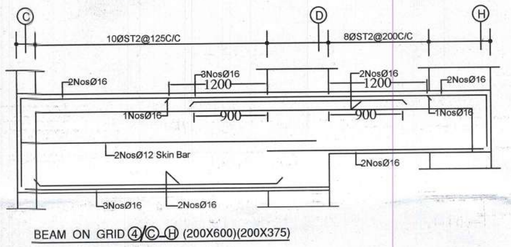
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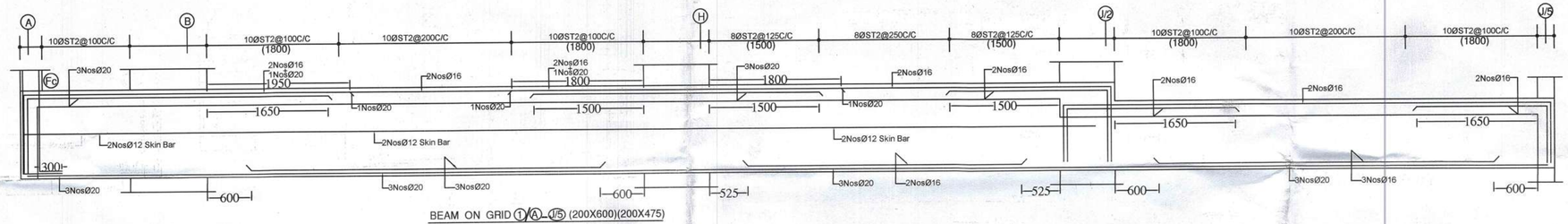
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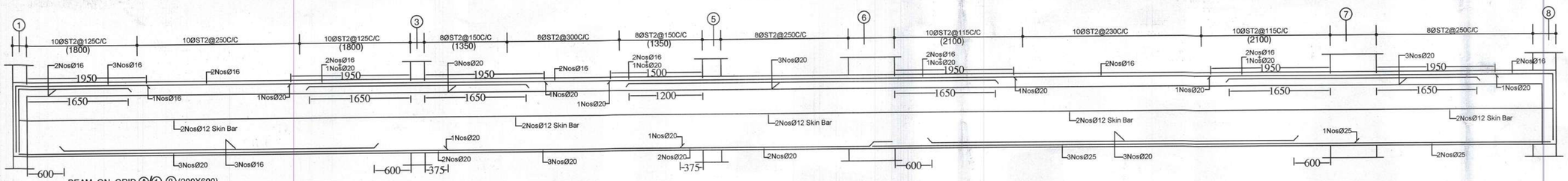
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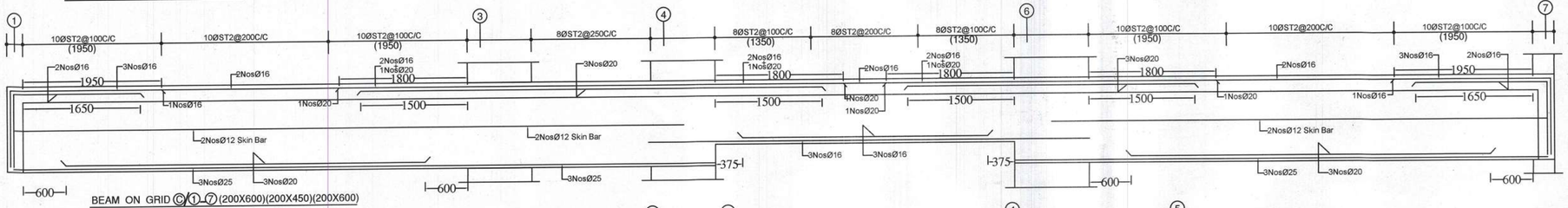
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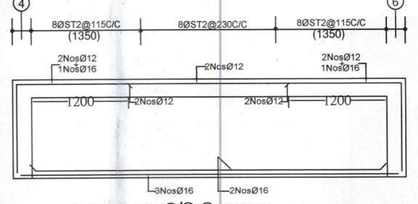
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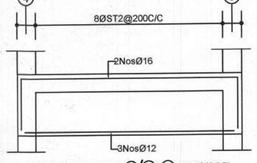
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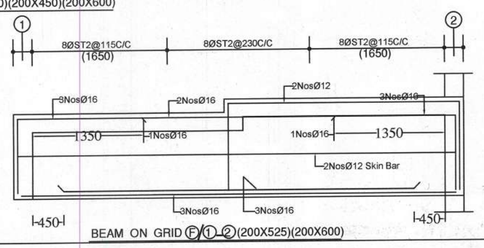
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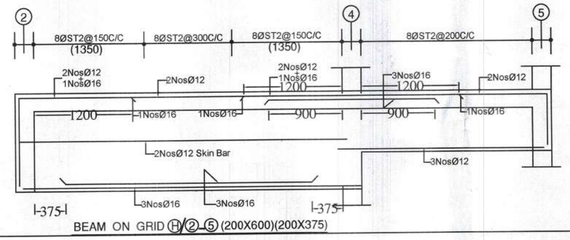
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BEAM ON GRID D/4-5 (200X325)



BEAM ON GRID F/1-2 (200X525)(200X600)



BEAM ON GRID F/2-5 (200X600)(200X375)

STILT FLOOR ROOF BEAM

S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade I(SE) with vellore LPA DTCP
Reg. No. SE/Gr-I/Feb-2025/001 On 02.09.2024
Door No.50, Krupasankari Street,
West Mambalam, Chennai - 600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET
AT MELAKUPPAM, TAMILNADU.

STILT FLOOR ROOF BEAM DETAILS...

DATE: 17 :12: 2024 | SCALE:1/4",3/4"

ARCHITECT:

BOURNA
Consultants - Engineers

No:50, Krupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03

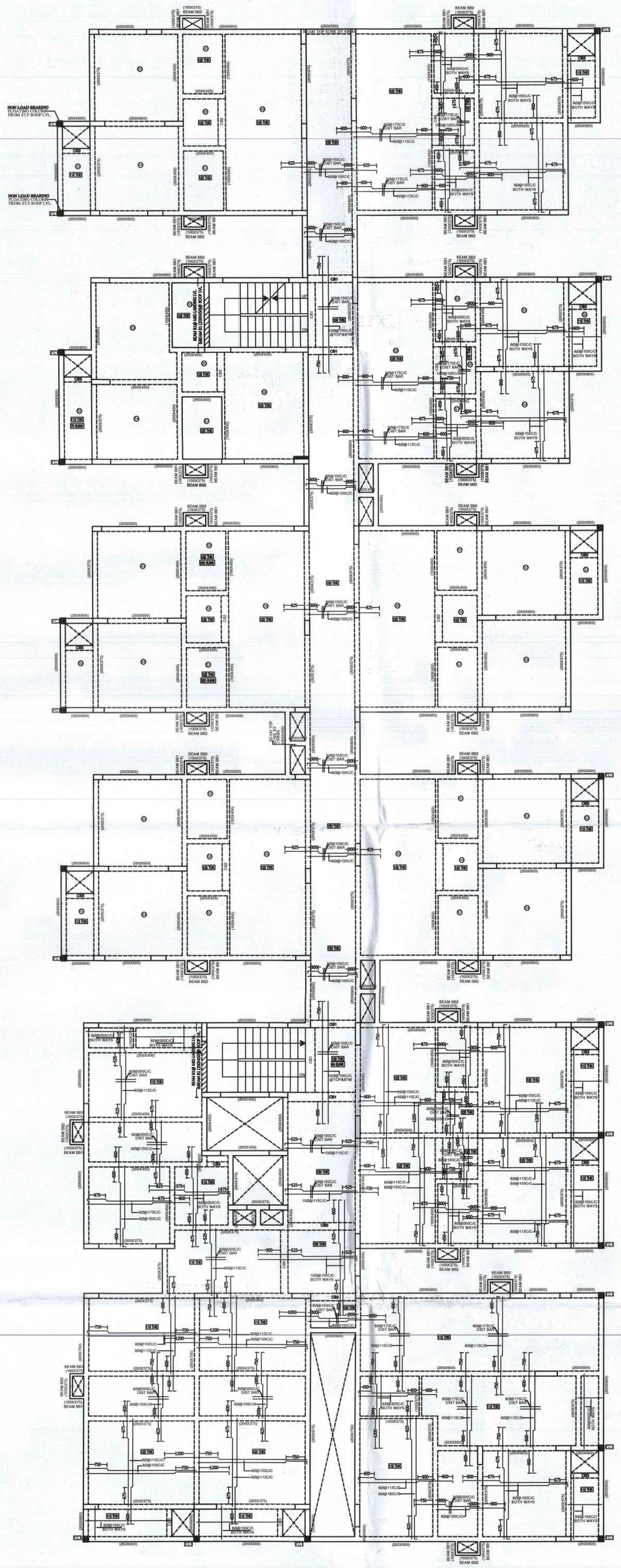
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

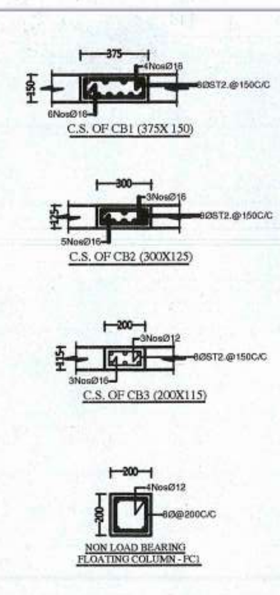
Dwg No... 11973 S -05

BLOCK-A

DSND : S.P.S.I

DRN : SUDHA





S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade I(SE) with vellore LPA DTCP
Reg. No. SE/Gr-I/Feb-2025/001 On 02.09.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai - 600 033.

FIFTH FLOOR ROOF SLAB LAYOUT

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@10"(250mm)C/C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
3. ——— LINE INDICATES BAR AT TOP IN PLAN, ——— LINE INDICATES BAR AT BOTTOM IN PLAN.
4. PROVIDE L - BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L - BEND 7"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE. M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE. TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

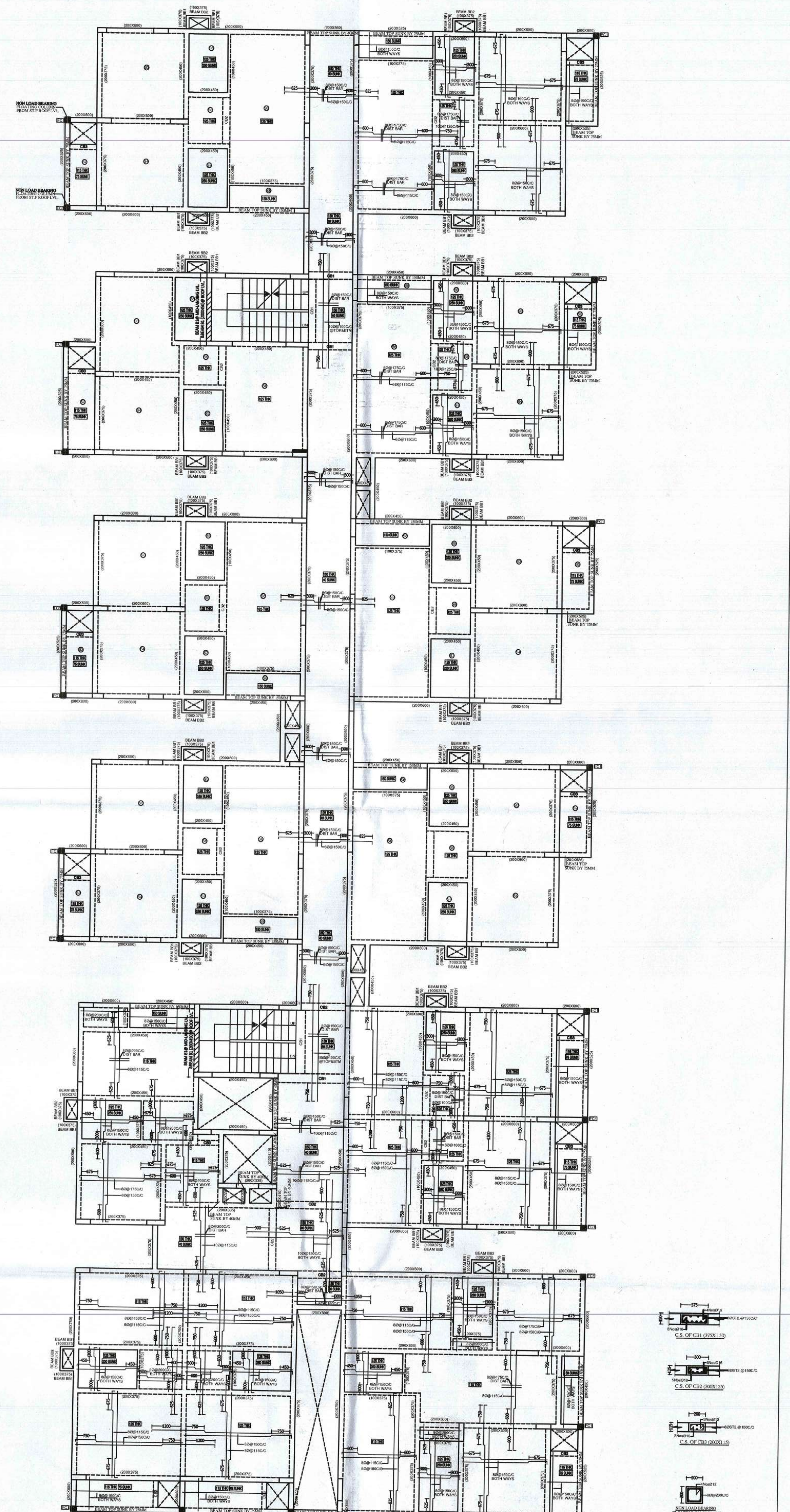
IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (i.e) TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME , PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET AT MELAKUPPAM, TAMILNADU.

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03	FIFTH FLOOR ROOF SLAB LAYOUT		Dwg No... 11973 S -04
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant	DATE: 17 :12: 2024	SCALE:1/4",3/4"	
BOURNA Consultants - Engineers	ARCHITECT: JEGANATH JB ARCHITECTS Tel : 044 - 42069848. Email : jeganathjb@gmail.com Address: No.6, 6th floor, Ram Swathi Towers, Durghabai Deshmukh Road, R.A.Puram, Chennai - 28.		BLOCK-A DSND : S.P.S.I DRN : SUDHA

REV	DESCRIPTION	CHKD	DRN	DATE
R3	ROOF SLAB REVISED	S.P.S.I	SENTHIL.R	08.10.2025
R2	ROOF SLAB REVISED	S.P.S.I	SUDHA	07.01.2025
R1	ROOF SLAB REVISED	S.P.S.I	SUDHA	03.01.2025



S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade I(SE) with vellore LPA DTCP
Reg. No. SE/Gr-I/Feb-2025/001 On 02.09.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai - 600 033.

TYPICAL FLOOR ROOF SLAB LAYOUT (FIRST,SECOND,THIRD&FOURTH FLOOR)

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@10"(250mm)C/C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
3. ———— LINE INDICATES BAR AT TOP IN PLAN, ———— LINE INDICATES BAR AT BOTTOM IN PLAN.
4. PROVIDE L - BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L - BEND 7"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE. M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE. TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

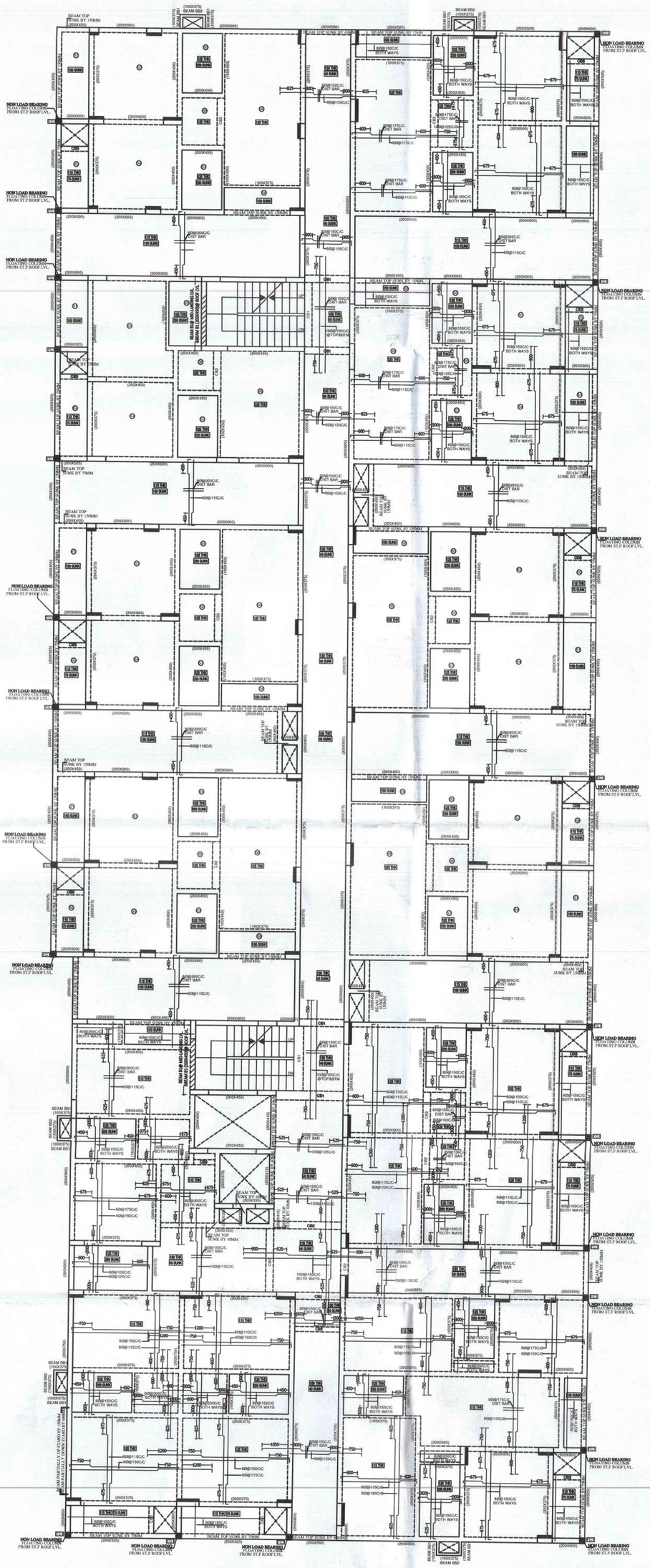
IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (i.e) TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME ,PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET AT MELAKUPPAM, TAMILNADU.

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03	TYPICAL FLOOR ROOF SLAB LAYOUT (FIRST,SECOND,THIRD&FOUTH FLOOR)		Dwg No... 11973 S -03
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant	DATE: 17 :12: 2024	SCALE:1/4",3/4"	
BOURNA Consultants - Engineers	ARCHITECT: JEGANATH JB ARCHITECTS Tel : 044 - 42069848. Email : jeganathjb@gmail.com Address: No.6, 6th floor, Ram Swathi Towers, Durghabai Deshmukh Road, R.A.Puram, Chennai - 28.		BLOCK-A DSND : S.P.S.I DRN : SUDHA

REV	DESCRIPTION	CHKD	DRN	DATE
R3	ROOF SLAB REVISED	S.P.S.I	SENTHIL.R	08.10.2025
R2	ROOF SLAB REVISED	S.P.S.I	SUDHA	07.01.2025
R1	ROOF SLAB REVISED	S.P.S.I	SUDHA	03.01.2025



STILT FLOOR ROOF SLAB LAYOUT

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 10@6"(T)(50mm)C/C. (OR) 8ND @7"(200mm)C/C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
   ——— LINE INDICATES BAR AT TOP IN PLAN. ——— LINE INDICATES BAR AT BOTTOM IN PLAN.
3. PROVIDE L - BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L - BEND 7"(178mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAMS. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

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7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

C.S. OF CB1 (375X 150)

C.S. OF CB2 (300X125)

C.S. OF CB3 (200X115)

NON LOAD BEARING FLOATING COLUMN 7"x7"

S. P .S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade(SE) with vellore LPA DTCP
Reg. No. SE/Gr-I/Feb-2025/001 Dt on 02.09.2024
Door No.50, Kirupasankari Street,
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PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET
AT MELAKUPPAM, TAMILNADU.

No:50, Kirupasankari Street, West Mambalam,
Chennai - 600 033. Ph : 2485 46 03
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant

BOURNA
Consultants - Engineers

STILT FLOOR ROOF SLAB LAYOUT

DATED: 17 :12: 2024 SCALE:1/4"-3/4"

ARCHITECT:
JEGANATH JB ARCHITECTS
Tel : 044 - 42660646
Email : jbganath@gmail.com
Address: No.6, 6th floor, Ram Swathi Towers,
Durgabai Deshmukh Road,
R.A.Puram, Chennai - 28.

Dwg No.. 11973 S -02
BLOCK-A
DSND : S.P.S.I
DRN : SUDHA

REV	DESCRIPTION	CHKD	DRN	DATE
R3	ROOF SLAB REVISED	S.P.S.I	BENTHLIY	08.10.2025
R2	ROOF SLAB REVISED	S.P.S.I	SUDHA	07.01.2025
R1	ROOF SLAB REVISED	S.P.S.I	SUDHA	03.01.2025

GRADE OF CONCRETE SHALL BE M35 MIX 1:1:2 FOR ALL COLUMNS

COLUMN DETAILS — ST.F.= STILT FLOOR. 1st.F.= FIRST FLOOR. 2nd.F.= SECOND FLOOR. 3rd.F= THIRD FLOOR 4th.F.= FOURTH FLOOR. 5th.F.= FIFTH FLOOR.

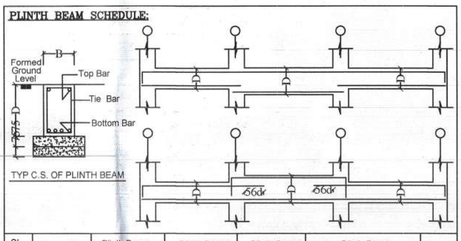
SL. No.	Name Of Column	Column Size	Main Reinforcement	Column Tie	Column Section Rod Detail
1.	C1	ST.F. = (300X900)	22Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	8Ø@200C/C 10Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X900)	22Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X900)	8Nos Ø20+ 14Nos Ø16		
		3rd.F. = (200X900)	8Nos Ø20+ 14Nos Ø12		
		4th.F. = (200X900)	22Nos Ø12		
		5th.F. = (200X600)	12Nos Ø12	8Ø@200C/C	
2.	C2	ST.F. = (300X900)	18Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	8Ø@200C/C 10Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X900)	18Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X900)	4Nos Ø20+ 14Nos Ø16		
		3rd.F. = (200X900)	4Nos Ø20+ 14Nos Ø12		
		4th.F. = (200X900)	18Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
3.	C3	ST.F. = (300X750)	16Nos Ø20+ 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	8Ø@200C/C 8Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X750)	16Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X750)	4Nos Ø20+ 12Nos Ø16		
		3rd.F. = (200X750)	4Nos Ø20+ 12Nos Ø12		
		4th.F. = (200X750)	16Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
4.	C4	ST.F. = (300X600)	14Nos Ø20+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C 6Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X600)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X600)	10Nos Ø20		
		3rd.F. = (200X600)	10Nos Ø16	8Ø@200C/C	
		4th.F. = (200X600)	10Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
5.	C5	ST.F. = (300X600)	12Nos Ø20+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C 6Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X600)	12Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X600)	10Nos Ø20		
		3rd.F. = (200X600)	10Nos Ø16	8Ø@200C/C	
		4th.F. = (200X600)	10Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
6.	C6	ST.F. = (300X600)	14Nos Ø16+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C 6Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X600)	14Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X600)	10Nos Ø16		
		3rd.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
7.	C7	ST.F. = (300X450)	8Nos Ø20+ 4Nos Ø12	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C 4Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X450)	8Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X450)	8Nos Ø16		
		3rd.F. = (200X450)	8Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
8.	C8	ST.F. = (300X450)	8Nos Ø16+ 4Nos Ø12	(2Nos Of Set) 8Ø@200C/C	8Ø@200C/C 4Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X450)	8Nos Ø16		
		2nd.F.= (200X450)	8Nos Ø12		
		3rd.F. = (200X450)	8Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
9.	C9	ST.F. = (300X375)	8Nos Ø16+ 3Nos Ø12	(2Nos Of Set) 8Ø@200C/C	8Ø@200C/C 3Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X375)	8Nos Ø16		
		2nd.F.= (200X375)	4Nos Ø16+ 4Nos Ø12		
		3rd.F. = (200X375)	8Nos Ø12	8Ø@200C/C	
		4th.F. = (200X375)	8Nos Ø12		
		5th.F. = (200X375)	8Nos Ø12		
10.	C10	ST.F. = (300X375)	4Nos Ø16+ 4Nos Ø12+ 3Nos Ø12	(2Nos Of Set) 8Ø@200C/C	8Ø@200C/C 3Nos Ø12 (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X375)	4Nos Ø16+ 4Nos Ø12		
		2nd.F.= (200X375)	8Nos Ø12		
		3rd.F. = (200X375)	8Nos Ø12	8Ø@200C/C	
		4th.F. = (200X375)	8Nos Ø12		
		5th.F. = (200X375)	8Nos Ø12		

GRADE OF CONCRETE SHALL BE M35 MIX 1:1:2 FOR ALL COLUMNS

COLUMN DETAILS — ST.F.= STILT FLOOR. 1st.F.= FIRST FLOOR. 2nd.F.= SECOND FLOOR. 3rd.F= THIRD FLOOR 4th.F.= FOURTH FLOOR. 5th.F.= FIFTH FLOOR.

SL. No.	Name Of Column	Column Size	Main Reinforcement	Column Tie	Column Section Rod Detail
11.	C2A	ST.F. = (200X1050)	24Nos Ø20	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X900)	18Nos Ø20		
		2nd.F.= (200X900)	4Nos Ø20+ 14Nos Ø16		
		3rd.F. = (200X900)	4Nos Ø20+ 14Nos Ø12		
		4th.F. = (200X900)	18Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
12.	C3A	ST.F. = (200X900)	20Nos Ø20	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X750)	16Nos Ø20		
		2nd.F.= (200X750)	4Nos Ø20+ 12Nos Ø16		
		3rd.F. = (200X750)	4Nos Ø20+ 12Nos Ø12		
		4th.F. = (200X750)	16Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
13.	C4A	ST.F. = (200X750)	18Nos Ø20	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X600)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X600)	10Nos Ø20		
		3rd.F. = (200X600)	10Nos Ø16	8Ø@200C/C	
		4th.F. = (200X600)	10Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
14.	C5A	ST.F. = (200X750)	16Nos Ø20	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X600)	12Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X600)	10Nos Ø20		
		3rd.F. = (200X600)	10Nos Ø16	8Ø@200C/C	
		4th.F. = (200X600)	10Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
15.	C6A	ST.F. = (200X750)	18Nos Ø16	(3Nos Of Set) 8Ø@200C/C	8Ø@200C/C (ST.F) (1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		1st.F. = (200X600)	14Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F.= (200X600)	10Nos Ø16		
		3rd.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		

PLINTH BEAM SCHEDULE:



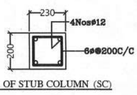
SL. No.	Name Of Plinth Beam	Plinth Beam Size (BXD)	Plinth Beam Top Bar	Plinth Beam Bottom Bar	Plinth Beam Tie	
1.	PB1	(200X450)	3Nos Ø16	3Nos Ø16+ 2Nos Ø16	10ØST2 @200C/C	Formed Ground Level
2.	PB2	(200X450)	3Nos Ø16	3Nos Ø16+ 3Nos Ø12	10ØST2 @200C/C	
3.	PB3	(200X450)	3Nos Ø16	3Nos Ø16+ 3Nos Ø16	8ØST2 @100C/C(End 1-3rd Span) 8ØST2 @200C/C(Mid 1-3rd Span) 8ØST2 @100C/C(End 1-3rd Span)	
4.	PB4	(200X450)	3Nos Ø16	3Nos Ø16+ 2Nos Ø16	8ØST2 @125C/C(End 1-3rd Span) 8ØST2 @250C/C(Mid 1-3rd Span) 8ØST2 @125C/C(End 1-3rd Span)	
5.	PB5	(200X450)	2Nos Ø16	3Nos Ø16+ 2Nos Ø12	8ØST2 @150C/C(End 1-3rd Span) 8ØST2 @300C/C(Mid 1-3rd Span) 8ØST2 @150C/C(End 1-3rd Span)	
6	PB6	(200X450)	2Nos Ø16	3Nos Ø16	8ØST2 @200C/C	
7.	PB7	(200X375)	2Nos Ø16	3Nos Ø16+ 2Nos Ø12	8ØST2 @200C/C	
8.	PB8	(200X375)	2Nos Ø16	3Nos Ø16	8ØST2 @200C/C	
9.	PB9	(200X375)	2Nos Ø12	2Nos Ø16+ 1Nos Ø12	8ØST2 @200C/C	
10.	PB10	(200X375)	2Nos Ø12	2Nos Ø12+ 1Nos Ø16	8ØST2 @250C/C	
11.	PB11	(200X375)	2Nos Ø12	3Nos Ø12	8ØST2 @250C/C	
12.	PB12	(200X375)	2Nos Ø12	2Nos Ø12	8ØST2 @250C/C	
13.	PB13	(200X375)	3Nos Ø16	2Nos Ø16+ 1Nos Ø12	8ØST2 @125C/C	
14.	PB14	(200X450)	2Nos Ø16	2Nos Ø16	8ØST2 @200C/C	

FOOTING SCHEDULE:

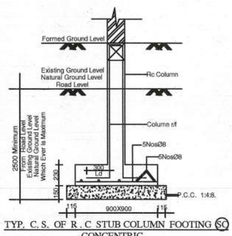
SL. No.	Footing Mark	Footing Size L	B	D	d	e	Footing Reinforcement Longer Bar	Shorter Bar	Nos Of Footing
1.	F1	3250	3250	1050	230	820	36Nos Ø12	36Nos Ø12	
2.	F2	3100	3100	1025	230	795	34Nos Ø12	34Nos Ø12	
3.	F3	2700	2700	900	230	670	28Nos Ø12	28Nos Ø12	
4.	F4	2600	2600	875	230	645	26Nos Ø12	26Nos Ø12	
5.	F5	2500	2500	825	230	595	24Nos Ø12	24Nos Ø12	
6.	F6	2250	2250	750	230	520	20Nos Ø12	20Nos Ø12	
7.	F7	2150	2150	725	230	495	19Nos Ø12	19Nos Ø12	
8.	F8	2050	2050	675	230	445	18Nos Ø12	18Nos Ø12	
9.	F9	1950	1950	650	230	420	20Nos Ø10	20Nos Ø10	
10.	F10	1750	1750	575	230	345	16Nos Ø10	16Nos Ø10	
11.	F11 (LIFT)	REFER LAYOUT		675	230	445	12Ø@125C/C Bothways @Top&Bottom		
12.	F12	5250	3225	825	-	-	12Ø@115C/C Bothways @Top&Bottom		
13.	F13	2950	2250	975	230	745	24Nos Ø12	30Nos Ø12	
14.	F14	3000	2400	900	230	670	25Nos Ø12	31Nos Ø12	
15.	F15	2850	2350	875	230	645	22Nos Ø12	30Nos Ø12	
16.	F16	3000	2200	875	230	645	21Nos Ø12	34Nos Ø12	
17.	F17	2500	2500	825	230	595	27Nos Ø12	27Nos Ø12	
18.	F18	2800	2400	875	230	645	24Nos Ø12	30Nos Ø12	
19.	F19	2950	2500	900	230	670	26Nos Ø12	31Nos Ø12	
20.	F20	3450	1600	950	230	720	16Nos Ø12	35Nos Ø12	
21.	F21	5330	3250	1050	230	820	36Nos Ø12	56Nos Ø12	
22.	SC	900	900	230	-	-	5Nos Ø8	5Nos Ø8	

IMPORTANT NOTE FOR READY MIX CONCRETE (RMC) :-

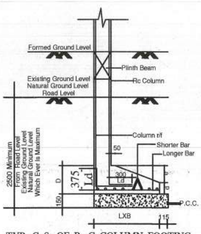
1. FOR M35 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (Or) TIME OF LORRY ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE/ MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.



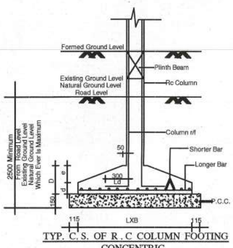
C.S. OF STUB COLUMN (SC)



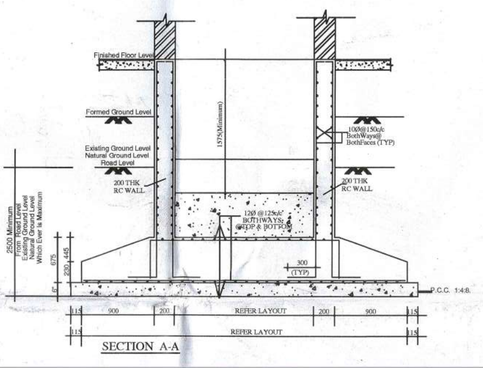
TYP. C. S. OF R . C STUB COLUMN FOOTING (SC)
CONCENTRIC



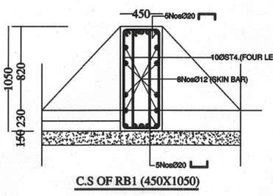
TYP. C. S. OF R . C COLUMN FOOTING
ECCENTRIC



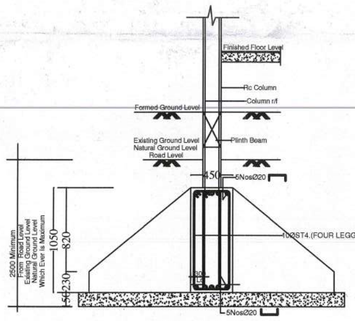
TYP. C. S. OF R . C COLUMN FOOTING
CONCENTRIC



SECTION A-A



C.S OF RB1 (450X1050)



C.S OF RB4 (450X1050)
SECTION B-B

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS, (Viz) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
2. CONCRETE SHOULD BE DONE MONOLITHICALLY FOR CANTILEVER SLABS AND BEAMS. CONSTRUCTION JOINT IN CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

S. P .S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade I(SE) with vel
Reg. No. SE/Gr-I/Feb-2022
Door No.50, Kirupasankari Street
West Mambalam, Chennai

PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET AT MELAKUPPAM, TAMILNADU.

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant
BOURNA Consultants - Engineers

FOUNDATION DETAILS.

DATE: 16 :12: 2024 SCALE: 1/4",3/4"

ARCHITECT: JEGANATH JB ARCHITECTS
Tel : 044 - 42069848.
Email : jeganathjb@gmail.com
Address: No.8, 6th floor, Ram Swathi Towers, Durgabaai Deshmukh Road, R.A.Puram, Chennai - 28.

Dwg No... 11973 S -02

BLOCK-A

DSND : S.P.S.I

DRN : SENTHIL.R

REV	DESCRIPTION	CHKD	DRN	DATE
R2	FOUNDATION REVISED	S.P.S.I	SENTHIL.R	02.01.2025
R1	FOUNDATION REVISED	S.P.S.I	SENTHIL.R	17.12.2024

IMPORTANT NOTE :-

1. ALL CENTRE LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT OF PLAN AT SITE.
2. FOR COLUMN WHICH ARE ADJACENT TO THE SUMP-BASE ELA - 'SEPTIC TANK BASE SLAB', FOR THIS DEPTH OF COLUMN FOUNDATION SHOULD BE TAKEN IN LEVEL WITH THE SUMP-BASE SLAB / SEPTIC TANK BASE SLAB LEVEL. IF THIS SUMP / SEPTIC TANK BASE SLAB COMES OVER THE FOOTING FOR THIS DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SEPTIC TANK/ SUMP-BASE SLAB BOTTOM LEVEL.
3. IF THE HEIGHT OF THE COLUMN BETWEEN FIRST LEVEL PLINTH BEAM TOP LEVEL TO GROUND FLOOR ROOF SLAB TOP LEVEL EXCEED 12'3". THEN PROVIDE SECOND LEVEL PLINTH BEAM AT INTERMEDIATE LEVEL DETAIL FOR THIS SAME LEVEL PLINTH BEAM SHALL BE OF SIZE (75"x Column size) WITH 3no.s@3"TOP AND 3no.s@3"TOP AND 8MM"@300mm C/C STIRRUPS.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE M.SAND CONFORMING TO ZONE II GRADING AS PER IS 383-1970 WITH FINENESS MODULUS BETWEEN 2.5 TO 3.5 AND SHALL BE FREE FROM CLAY LUMPS, SILT AND ORGANIC IMPURITIES.

IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

1. FOR M25 GRADE CONCRETE MOVING 540 TO 720 CMS/HR PER CURE CHECK METER OF READY MIX CONCRETE.
2. THE TIMER DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIMER DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (i.e) TIME OF CLOSEY DISPATCHES FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME , PAIRING AND LAYING OF CONCRETE ON ROAD WORK.
4. AFTER 90 MINUTES TO 90 MINUTES OR LAYING OF CONCRETE SOME ASBESTOS / MINOR SEPERATION CRACKS WILL BREAK-UP ON THE TOP SURFACE OF THE CONCRETE. TO MODIFY THIS, POUR THICK CEMENT SLURRY, PLL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STANDING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER OBTAINING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS (Viz) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
2. CONCRETE SHOULD BE DONE MONOLITHICALLY. FOR CONTINUOUS SLABS AND BEAMS CONSTRUCTION JOINT IN CONCRETE SHOULD BE ROLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER.

No	DESCRIPTION	CHKD	DATE
R4	FOUNDATION REVISED	S.P.S.I	30.12.2025
R3	FOUNDATION REVISED	S.P.S.I	19.08.2025
R2	FOUNDATION REVISED	S.P.S.I	02.01.2025
R1	FOUNDATION REVISED	S.P.S.I	17.12.2024

SOIL NOTES:- ABOVE LEVEL OF 1.2 M THE SOIL IS FILLED UP WITH SOIL AND NOT SUITABLE FOR FOUNDATION. ACCORDING TO SOIL TEST REPORT.

1. TYPE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF WELL EXPERT SPREAD FOOTING IS ADOPTED.
3. IF WELL EXPERT SPREAD FOOTING IS ADOPTED THEN THE SAFE BEARING CAPACITY OF SOIL IS NOTED GIVEN IN REPORT FOR DESIGN OF FOUNDATION.

FOR GROUND FLOOR FLOORING

1. ALL FLOORING SHALL BE LAID ON WELL COMPACTED AND CONSOLIDATED FOUNDATION TRENCHES (BRICK BAT COBA) WELL COMPACTED PROPERLY BEFORE LAYING CONCRETE FOUNDATION.
2. ALL FLOORING SHALL BE LAID ON WELL COMPACTED AND CONSOLIDATED FOUNDATION TRENCHES (BRICK BAT COBA) PROPERLY AS A PRECAUTIONARY MEASURE, PROVIDE BRICK BATS / STONE BATS AT THE BOTTOM OF THE FOUNDATION TRENCHES.
3. THE FOUNDATIONS CAN BE STRENGTHENED BY PROVIDING RCC BELTS WHEREVER NECESSARY.

FOUNDATION LAYOUT

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF VIBRATED MIX 1:1.5:3 FOR CONCRETE SHALL BE OF VIBRATED MIX 1:1.5:3 FOR CONCRETE SHALL BE OF VIBRATED MIX 1:1.5:3 FOR BEAMS AND SLABS AND 1:1:2 FOR COLUMNS AND RCC WORKS AND 1:2:4 FOR PLAIN CONCRETE.
2. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
3. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
4. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
5. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
6. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
7. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
8. ALL REINFORCEMENT SHALL BE FREE FROM RUST, OIL, GREASE AND LOOSE MILL SCALE.
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PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET AT MELAKUPPAM, TAMILNADU.

FOUNDATION LAYOUT.

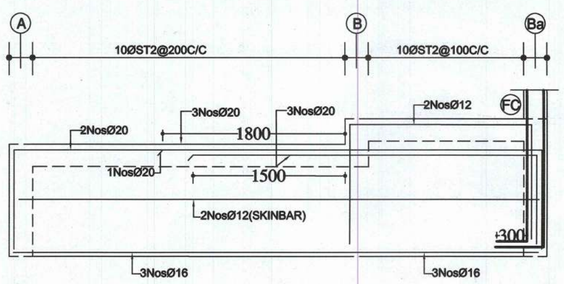
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DRN : IBS/THILIP

DATE : 19 .12. 2024 | SCALE 1/4"=1'-0"

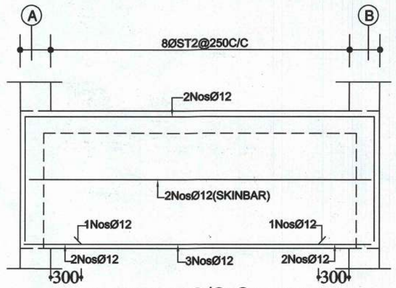
ARCHITECT:
JEGANATH JB ARCHITECTS
Mr. J. JEGANATH
Prof. Jayam Buildcon
Door No.1, 2nd Floor, South Tower,
Vadhana Chennai Mall,
Vadhana Chennai Mall,
Old No.72, New No.36,

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Consultants - Engineers
Structural Consultant
S.P.S.Inbarajan, M.E., A.M.I.E.,
Chennai - 600 094. Ph : 2468 46 50
Nodia, Uttarpradesh Branch, Vinay Khandsaini,

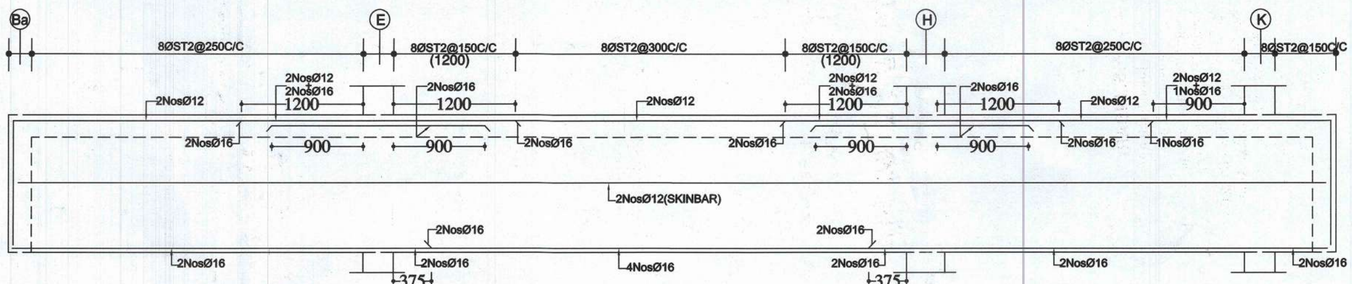
S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade(SE) with vertige LPA DTCP
Reg. No. SE/Gr-I/Feb-2025/001 On 02.09.2024
Door No.90, Kirupasankari Street
West Mambalam, Chennai - 600 033.



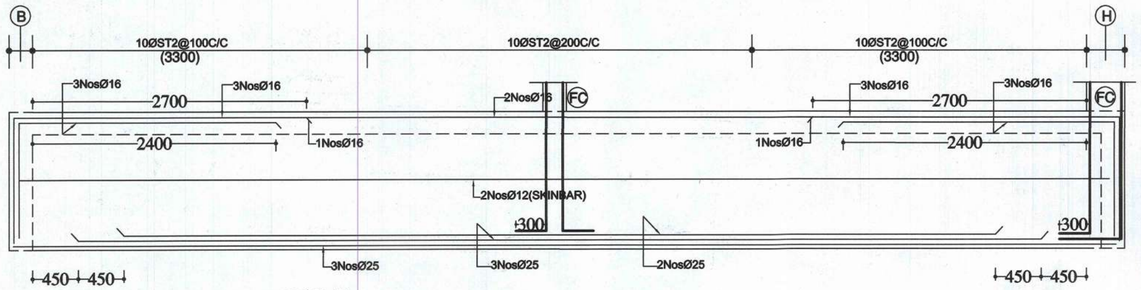
BEAM ON GRID 5a/A-Ba (200X550)(200X675)



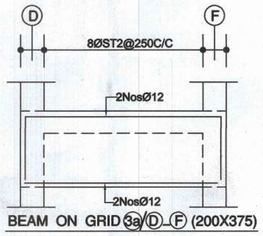
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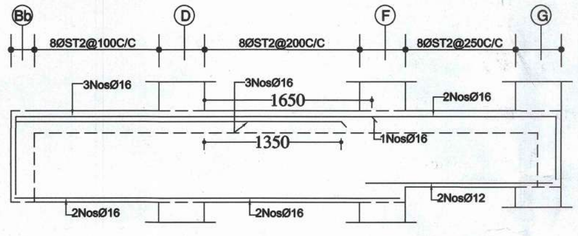
BEAM ON GRID 5/Ba-K (200X675)



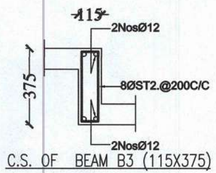
BEAM ON GRID 4a/B-H (300X675)



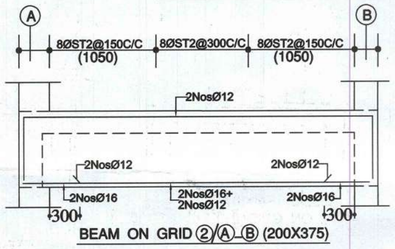
BEAM ON GRID 3a/D-F (200X375)



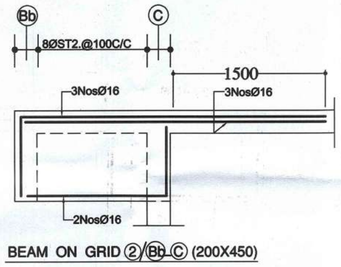
BEAM ON GRID 3/Bb-G (200X450)(200X375)



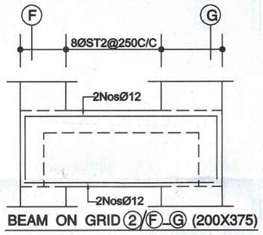
C.S. OF BEAM B3 (115X375)



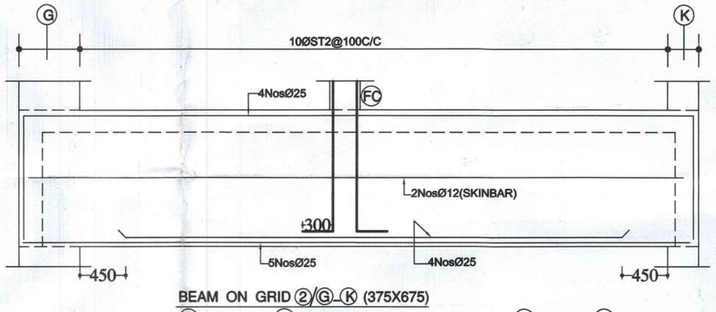
BEAM ON GRID 2/A-B (200X375)



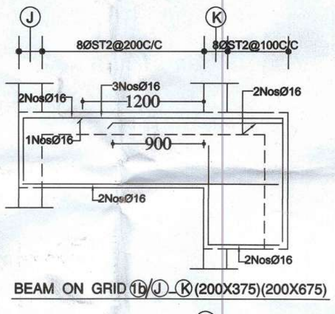
BEAM ON GRID 2/Bb-C (200X450)



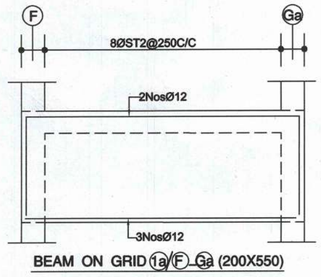
BEAM ON GRID 2/F-G (200X375)



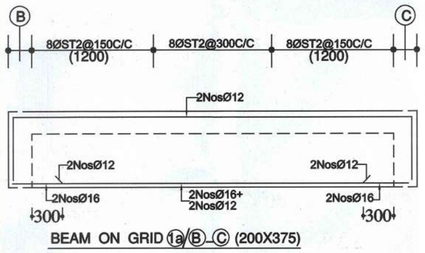
BEAM ON GRID 2/G-K (375X675)



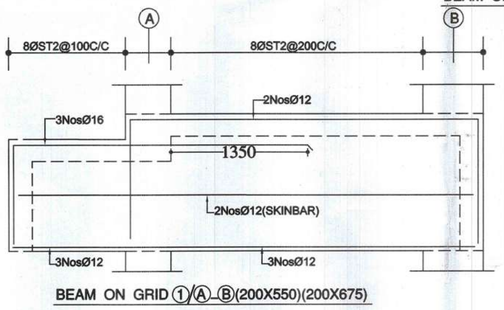
BEAM ON GRID 1b/J-K (200X375)(200X675)



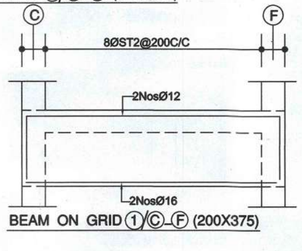
BEAM ON GRID 1a/F-Ga (200X550)



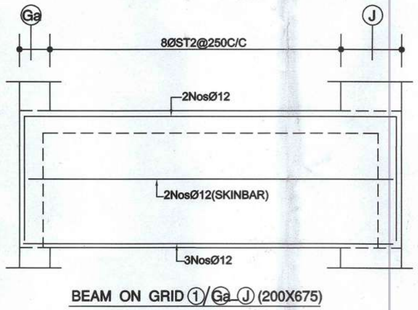
BEAM ON GRID 1a/B-C (200X375)



BEAM ON GRID 1/A-B(200X550)(200X675)

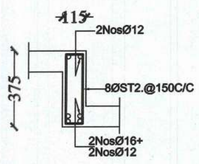


BEAM ON GRID 1/C-F (200X375)

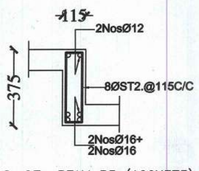


BEAM ON GRID 1/Ga-J (200X675)

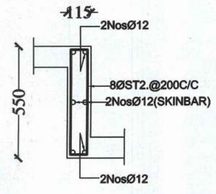
GROUND FLOOR ROOF BEAM DETAILS



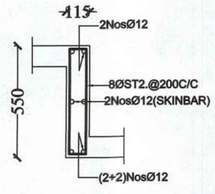
C.S. OF BEAM B4 (100X375)



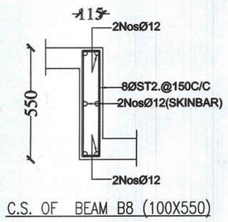
C.S. OF BEAM B5 (100X375)



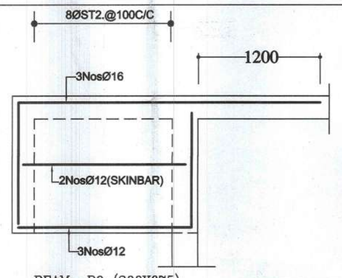
C.S. OF BEAM B6 (100X550)



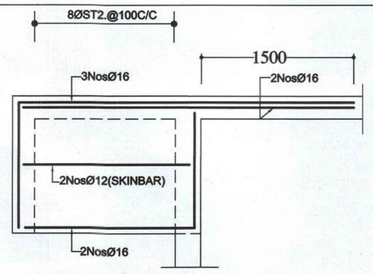
C.S. OF BEAM B7 (100X550)



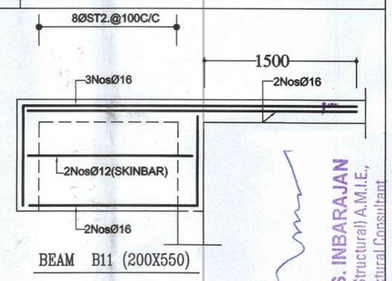
C.S. OF BEAM B8 (100X550)



BEAM B9 (200X675)



BEAM B10 (200X675)



BEAM B11 (200X550)

FIRST FLOOR ROOF BEAM DETAILS

S. P. S. INBARAJAN
M.E. (Structural) A.M.I.E.,
Structural Consultant

PROPOSED VILLAS BUILDING FOR M/S GOLDEN PLANET SENIOR HERITAGE HOME PVT LTD., RISHI AT MAMALLAPURAM,MELAKUPPAM VILLAGE

GROUND & FIRST FLOOR ROOF BEAM DETAILS...

DATE :26:06:2025 | SCALE:1/4" , 3/4"

ARCHITECT:

Dwg No... 11965 S-14

VILLAS:(B1,A1&B2,A2)

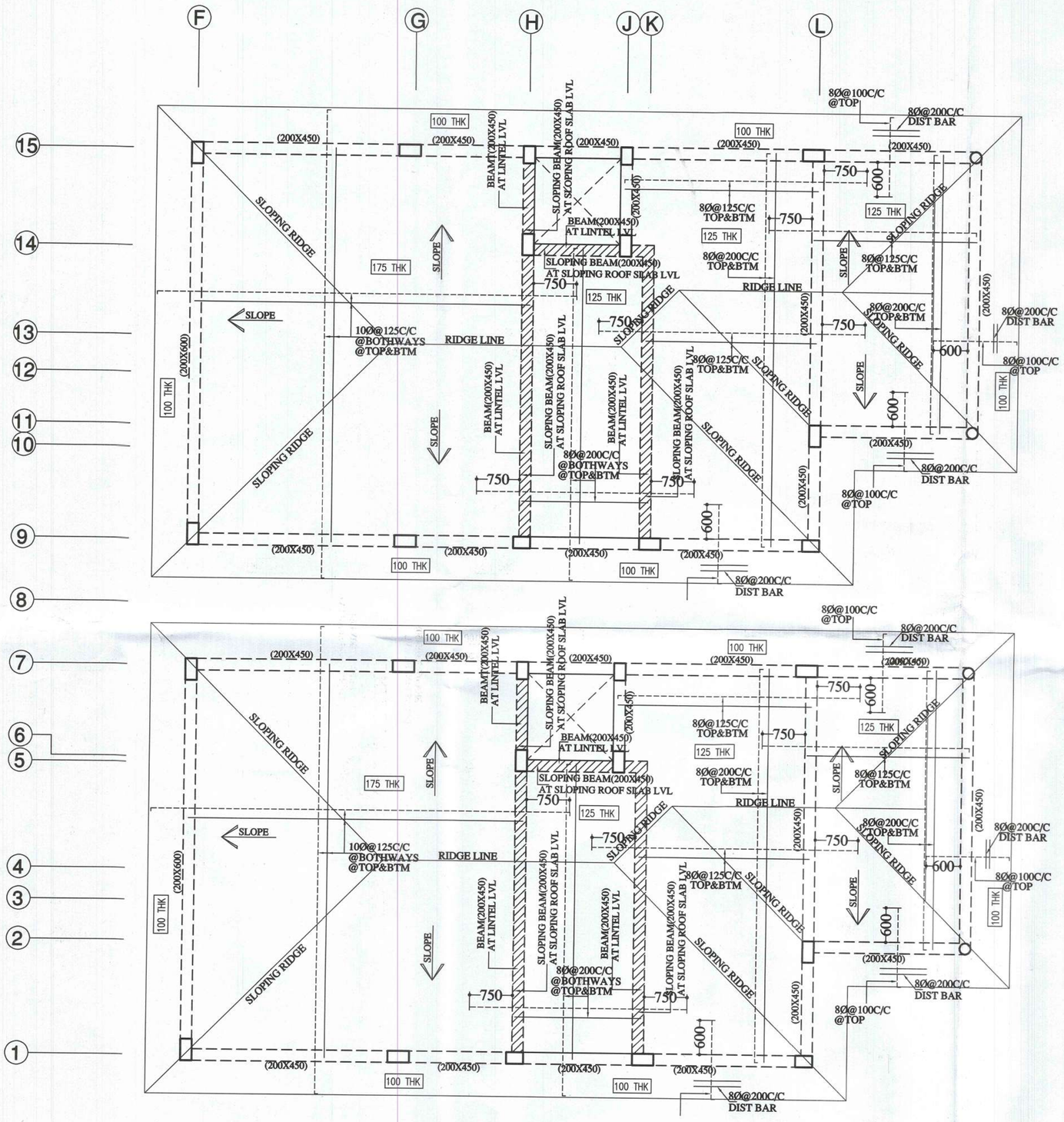
DSND : S.P.S.I

DRN : MD SULTHAN.A

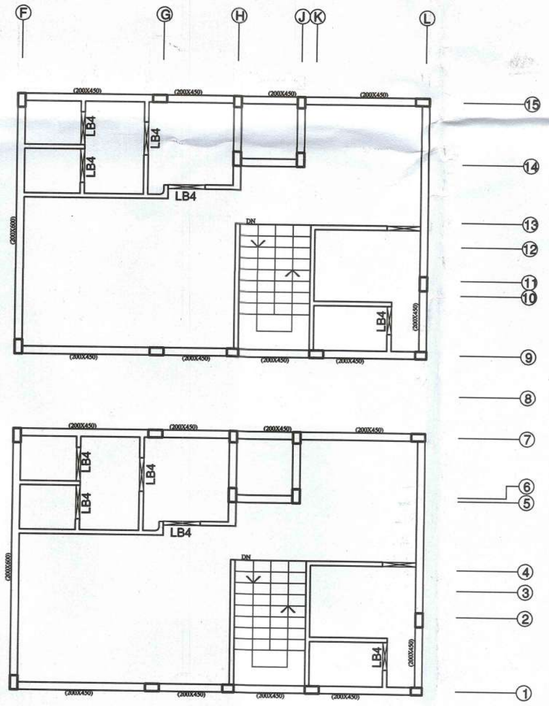
BOURNA
Consultants - Engineers

No.60,Ponniammanmedu High Road, Kilpauk, Chennai - 600 010. Ph : 2642 46 00.

S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant



FIRST FLOOR ROOF SLAB LAYOUT



FIRST FLOOR LINTEL LAYOUT

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS, (Via) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
2. CONCRETE SHALL BE DONE MONOLITHICALLY FOR CANTILEVER SLABS AND BEAMS. CONSTRUCTION JOINT IN CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER.

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@10"(250mm)C/C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
3. — — — — LINE INDICATES BAR AT TOP IN PLAN, ———— LINE INDICATES BAR AT BOTTOM IN PLAN.
4. PROVIDE L - BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L - BEND 7"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.

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Registered Structural Engineer
Grade(ISE) with valore I PA DTCP
Reg.No.CE/SE/2016/ 000 08 2024

PROPOSED VILLAS BUILDING FOR M/S GOLDEN PLANET SENIOR HERITAGE HOME PVT LTD., RISHI AT MAMALLAPURAM,MELAKUPPAM VILLAGE
West Mambalam Chennai - 600033.

FIRST FLOOR ROOF SLAB AND LINTEL DETAILS...

DWG NO : 11965 S -13

SCALE:1/4" , 3/4"

DATE :26:06:2025

ARCHITECT :

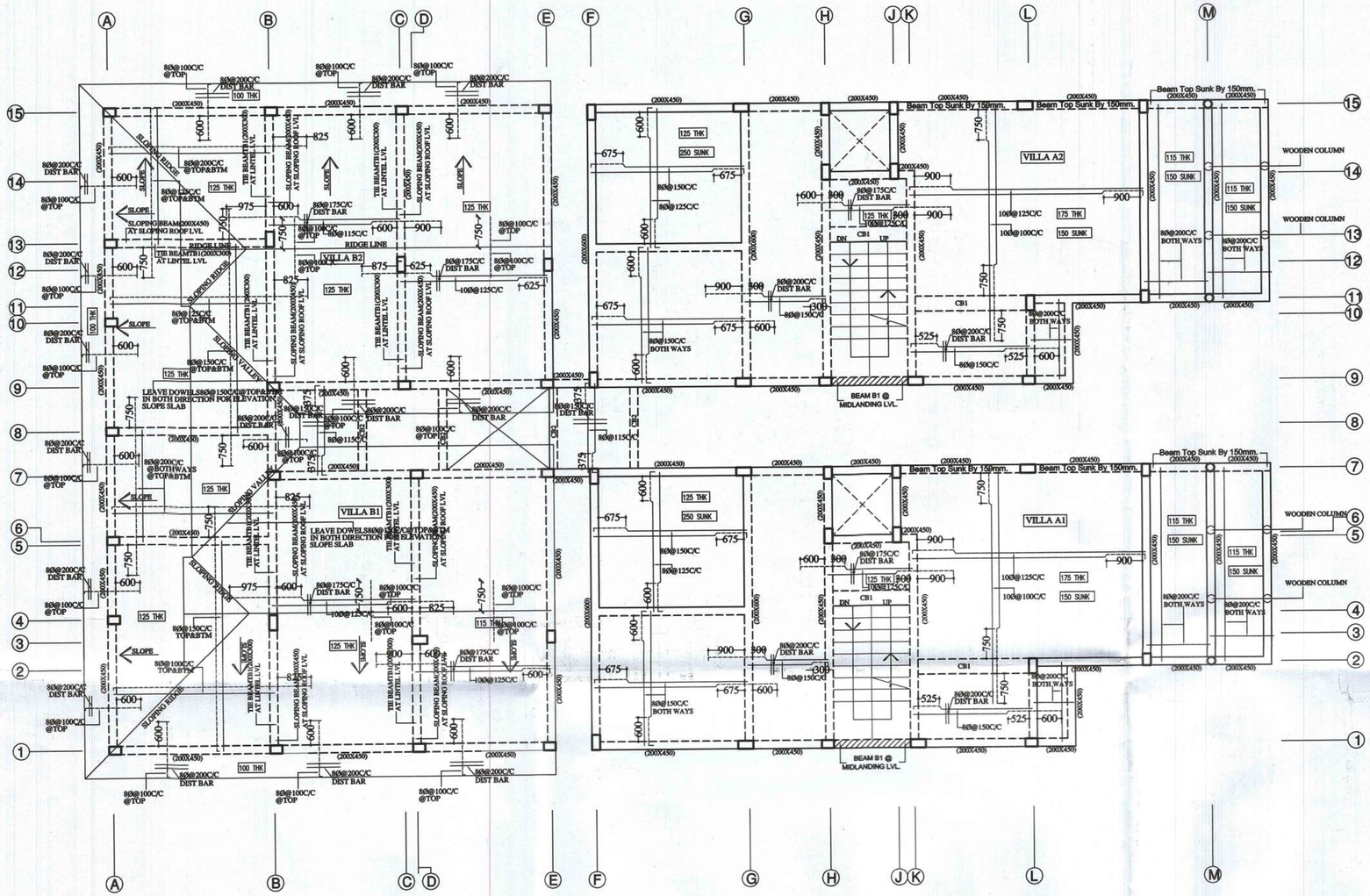
VILLAS:(B1,A1&B2,A2)

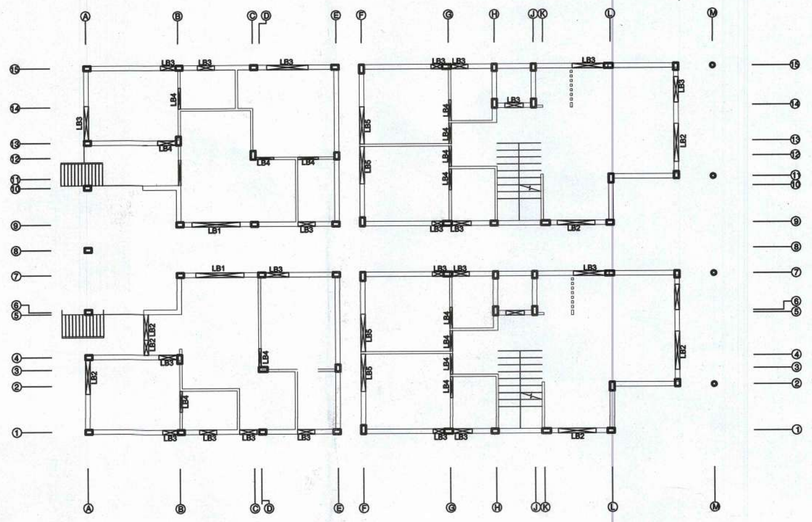
DSND : S.P.S.I

DRN : MD SULTHAN.A

BOURNA
Consultants - Engineers

S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant
No.50,Kirupasankari Street West Mambalam
Chennai - 600 033. Ph : 2485 46 03



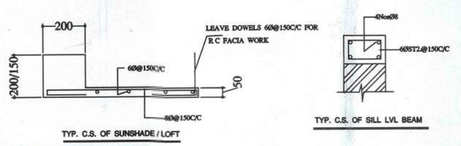


GROUND FLOOR LINTEL LAYOUT

LB1,LB4 ARE CONTINUOUS LINTEL IN ALL 200 THK BRICK WALL / OPENING AND 100 THK BRICK WALL / OPENING IN BETWEEN COLUMN AND ALSO ON WALLS WITHOUT OPENING UNLESS NOTED OTHERWISE.

IMPORTANT NOTES:-
FOR BEAMS DETAILS NOT GIVEN FOLLOW GROUND FLOOR BEAM DETAILS REFER DWG NO: 9000 - 500.

GROUND FLOOR ROOF SLAB LAYOUT



IMPORTANT NOTE FOR M-SAND :-

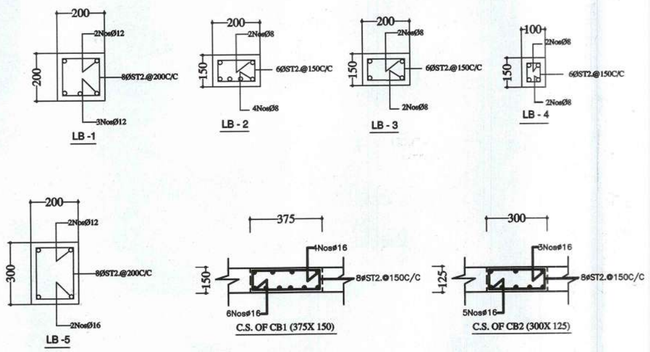
SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

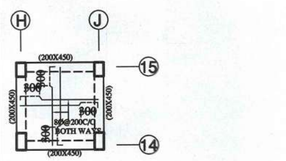
IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS, (Vis) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
2. CONCRETE SHOULD BE DONE MONOLITHICALLY FOR CANTILEVER SLABS AND BEAMS. CONSTRUCTION JOINT IN CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER.

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 60@6"(150mm)C/C. (OR) 8@10"(250mm)C/C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
3. — — — — LINE INDICATES BAR AT TOP IN PLAN. ———— LINE INDICATES BAR AT BOTTOM IN PLAN.
4. PROVIDE L - BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L - BEND 7"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.





LIFT WELL COVER SLAB LAYOUT

PROPOSED VILLAS BUILDING FOR M/S GOLDEN PLANET SENIOR HERITAGE HOME PVT LTD - RISHI AT MAMALLAPURAM,MELAKUPPAM VILLAGE

GROUND FLOOR ROOF SLAB AND LINTEL DETAILS...

DWG NO : 11965 S -12

VILLAS:(B1,A1&B2,A2)

DSND : S.P.S.I

DRN : MD SULTHAN.A

DATE :14:12:2024

SCALE:1/4" , 3/4"

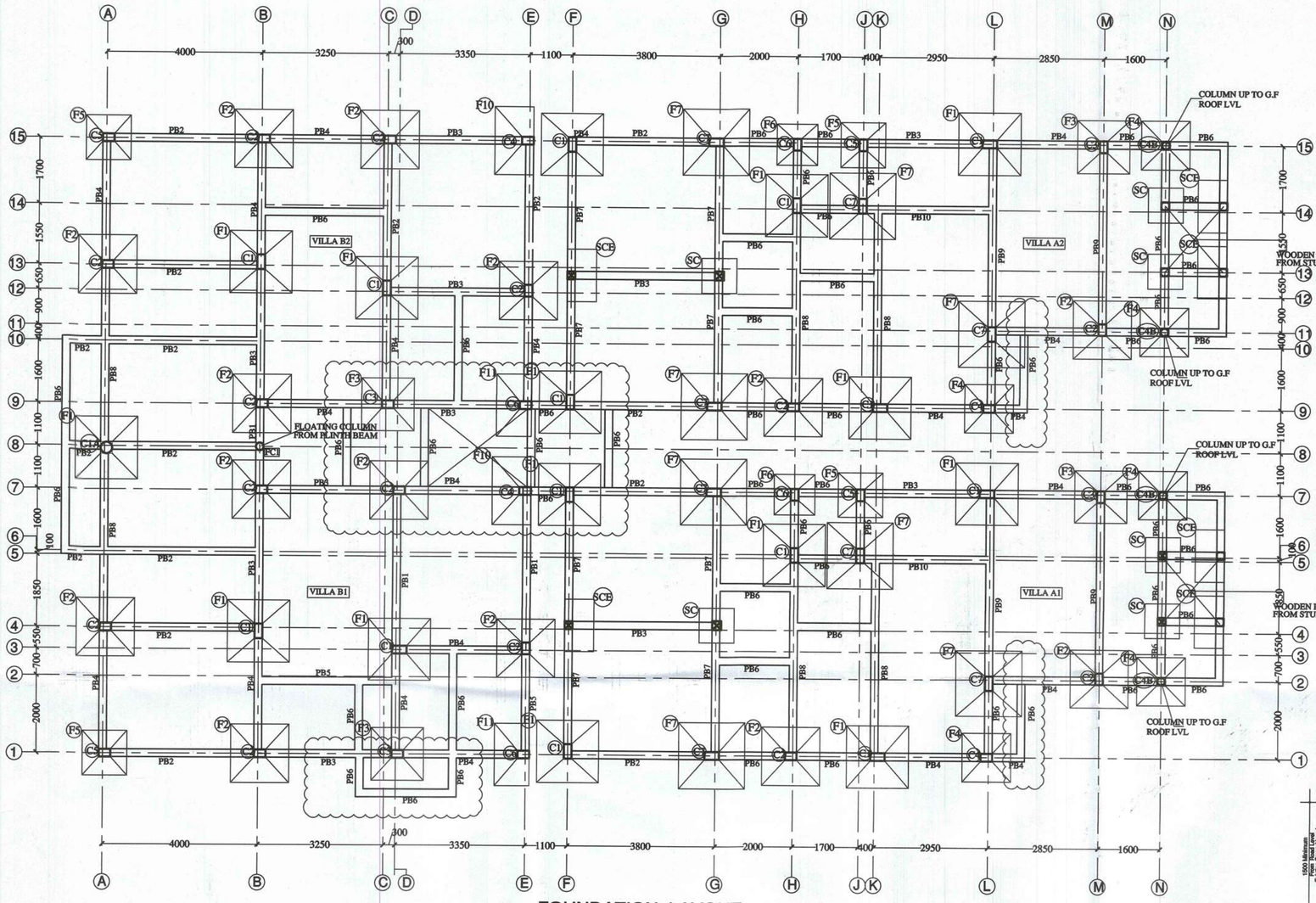
ARCHITECT :

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Consultants - Engineers

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S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
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Registered Structural Engineer
Grade I (SE) with vellore LPA DTCP
Reg. No. STR-I/Reg-2625/001 Dn 02.09.2024
Door No.80,Kirupasankari Street,
West Mambalam, Chennai-600 033.



FOUNDATION LAYOUT
DUPLEX VILLA (B1,A1&B2,A2)

IMPORTANT NOTE :-

1. ALL CENTER LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT OF PLAN AT SITE.
2. FOR COLUMN WHICH ARE ADJACENT TO THE SUMP BASE SLAB , SEPTIC TANK BASE SLAB FOR THIS DEPTH OF COLUMN FOUNDATION SHOULD BE TAKEN IN LEVEL WITH THE SUMP BASE SLAB , SEPTIC TANK BASE SLAB LEVEL. IF THE SUMP , SEPTIC TANK BASE SLAB COMES OVER THE FOOTING FOR THIS DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SEPTIC TANK/ SUMP BASE SLAB BOTTOM LEVEL.
3. IF THE HEIGHT OF THE COLUMN BETWEEN FIRST LEVEL PLINTH BEAM TOP LEVEL TO GROUND FLOOR ROOF SLAB TOP LEVEL EXCEED 12'3" , THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL. DETAIL FOR THIS SECOND LEVEL PLINTH BEAM SHALL BE OF SIZE (9"X9") (230mmX230mm) WITH 3Nos@12@TOP AND 3Nos@12@BTM AND 8MT2-@300mmC/C STIRRUPS.

FOOTING SCHEDULE:

SL. No.	Footing Mark	Footing Size L	B	D	d	e	Footing Reinforcement Longer Bar	Shorter Bar	Nos Of Footing
1.	F1	1600	1600	575	230	270	13Nos@10	13Nos@10	
2.	F2	1500	1500	500	230	220	11Nos@10	11Nos@10	
3.	F3	1350	1350	450	230	170	10Nos@10	10Nos@10	
4.	F4	1250	1250	425	230	145	9Nos@10	9Nos@10	
5.	F5	1150	1150	375	230	120	7Nos@10	7Nos@10	
6.	F6	1050	1050	350	230	170	6Nos@10	6Nos@10	
7.	F7	1700	1700	575	230	145	15Nos@10	15Nos@10	
8.	F8	1500	850	375	230	120	5Nos@10	9Nos@10	
9.	F9	2050	1150	575	230	-	8Nos@10	15Nos@10	

TYP. C.S. OF R.C STUB COLUMN FOOTING (SC) CONCENTRIC

C.S. OF STUB COLUMN (SC)

TYP. C.S. OF R.C STUB COLUMN FOOTING (SC) ECCENTRIC

TYP. C.S. OF R.C COLUMN FOOTING CONCENTRIC

TYP. C.S. OF R.C COLUMN FOOTING ECCENTRIC

TYP. SECTION THROUGH BASEMENT WALL (INNER WALL)

TYP. SECTION THROUGH BASEMENT WALL (OUTER WALL)

IMPORTANT NOTE :-

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IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
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IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (i.e) TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME , PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.

COLUMN DETAILS G.F.= GROUND FLOOR. F.F.= FIRST FLOOR.

SL. No.	Name Of Column	Column Size	Main Reinforcement	Column Tie	Column Section Rod Detail
1.	C1	G.F. = (200X375)	4Nos Ø16+ 4Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X375)	8Nos Ø12	8Ø@200C/C	
2.	C2	G.F. = (200X300)	4Nos Ø16+ 4Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
3.	C3	G.F. = (200X300)	8Nos Ø12	(2Nos Of Set) 8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
4.	C4	G.F. = (200X300)	6Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
5.	C5	G.F. = (200X300)	6Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
6.	C6	G.F. = (200X300)	6Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
7.	C7	G.F. = (200X375)	8Nos Ø16	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X375)	8Nos Ø12		
8.	C8	G.F. = (200X300)	4Nos Ø16+ 4Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
9.	C9	G.F. = (200X300)	4Nos Ø16+ 4Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
10.	C2A	G.F. = (200X300)	8Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
11.	C3A	G.F. = (200X300)	4Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
12.	C4A	G.F. = (200X300)	4Nos Ø16+ 4Nos Ø12	8Ø@200C/C	(G.F) (F.F)
		F.F. = (200X300)	6Nos Ø12		
13.	C4B	G.F. = (200Ø)	5Nos Ø16	8Ø@200C/C	Ø200 (G.F) - (F.F)
		F.F. = -	-		
14.	C1A	G.F. = (300Ø)	5Nos Ø16	8Ø@200C/C	Ø300 (G.F) Ø300 (F.F)
		F.F. = (300Ø)	5Nos Ø16		

PLINTH BEAM SCHEDULE:

TYP C.S. OF PLINTH BEAM

SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(200X375)	2Nos Ø16	3Nos Ø16	8ØST2.@200C/C	
2.	PB2	(200X375)	2Nos Ø12	2Nos Ø16 1Nos Ø12	8ØST2.@200C/C	
3.	PB3	(200X375)	2Nos Ø12	2Nos Ø12 1Nos Ø16	8ØST2.@200C/C	
4.	PB4	(200X300)	2Nos Ø12	2Nos Ø12 1Nos Ø16	8ØST2.@200C/C	
5.	PB5	(200X300)	2Nos Ø12	3Nos Ø12	8ØST2.@250C/C	
6.	PB6	(200X300)	2Nos Ø12	2Nos Ø12	8ØST2.@250C/C	Existing Ground Level
7.	PB7	(200X375)	3Nos Ø16	2Nos Ø16 1Nos Ø12	8ØST2.@125C/C	
8.	PB8	(200X450)	2Nos Ø16	3Nos Ø16 2Nos Ø12	8ØST2.@150C/C(End 1/3rd Span) 8ØST2.@300C/C(Mid 1/3rd Span) 8ØST2.@150C/C(End 1/3rd Span)	
9.	PB9	(200X450)	3Nos Ø16	3Nos Ø16 3Nos Ø12	8ØST2.@125C/C(End 1/3rd Span) 8ØST2.@250C/C(Mid 1/3rd Span) 8ØST2.@125C/C(End 1/3rd Span)	
10.	PB10	(200X375)	2Nos Ø16	3Nos Ø16 2Nos Ø12	8ØST2.@175C/C	
11.	PB11	(200X230)	3Nos Ø12	3Nos Ø12	8ØST2.@200C/C	Finished Floor Level

PROPOSED VILLAS BUILDING FOR M/S GOLDEN PLANET SENIOR HERITAGE HOME PVT LTD - RISHI AT MAMALLAPURAM,MELAKUPPAM VILLAGE

FOUNDATION LAYOUT

DWG NO : 11965 S -11

SCALE:1/4" , 3/4"

DATE :14:12:2024

ARCHITECT:

VILLAS:(B1,A1&B2,A2)

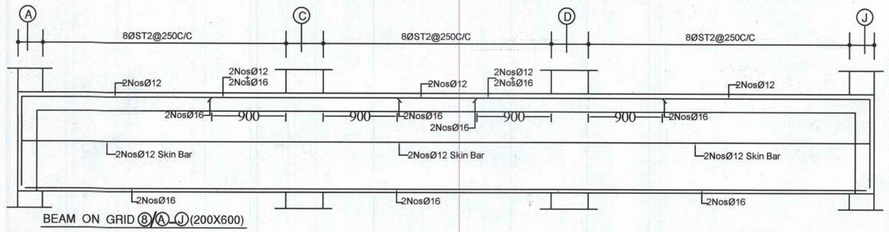
DSND : S.P.S.I

DRN : MD SULTHAN.A

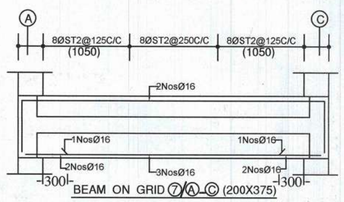
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant
No.50,Kirupasankari Street West Mambalam 033.
Channai - 600 033. Ph : 2485 46 03

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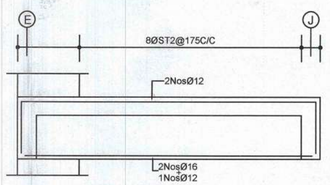
S. P. S. INBARAJAN M.E., A.M.I.E., Structural Consultant Registered Structural Engineer



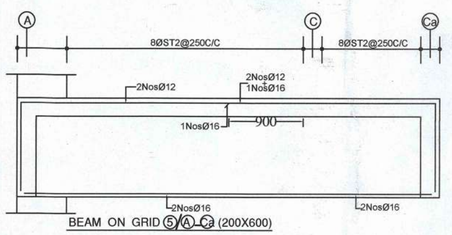
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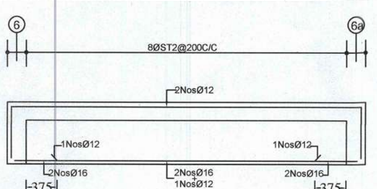
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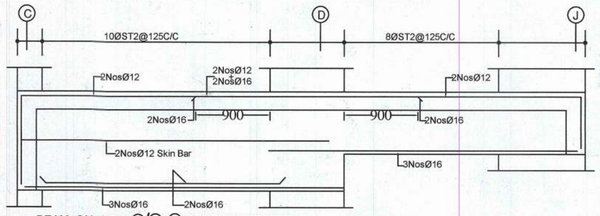
BEAM ON GRID 6a/E-J (200X375)



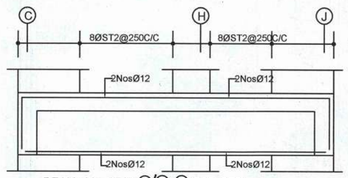
BEAM ON GRID 5/A-Ca (200X600)



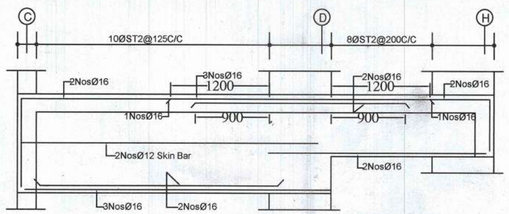
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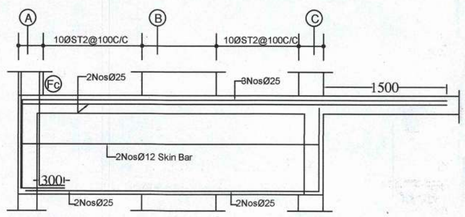
BEAM ON GRID 6/C-J (200X600)(200X375)



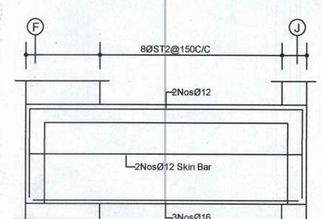
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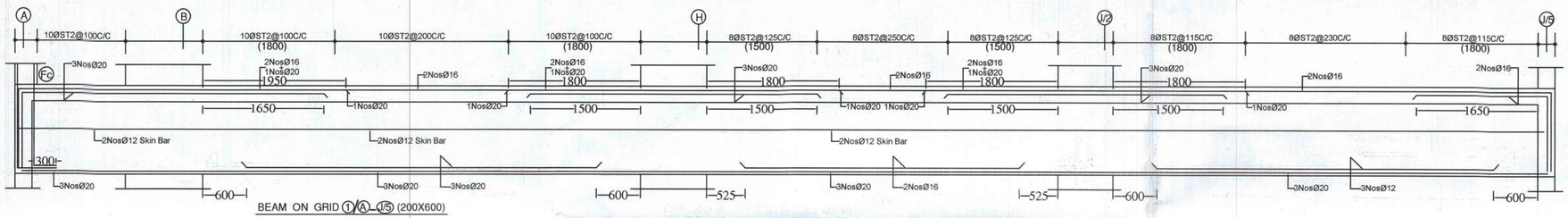
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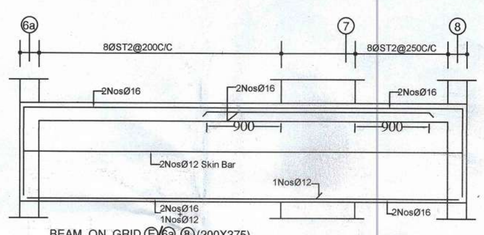
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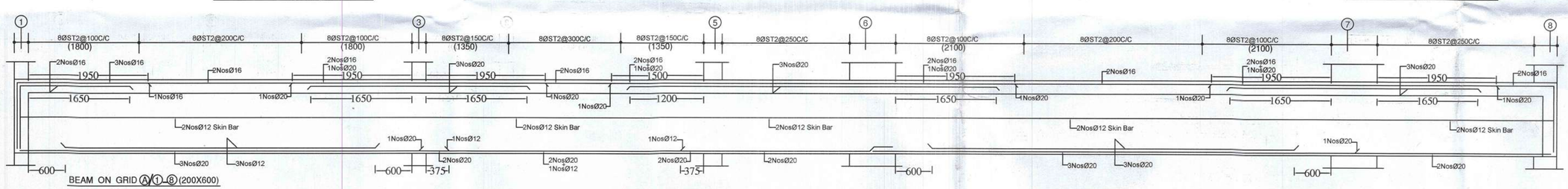
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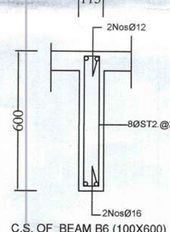
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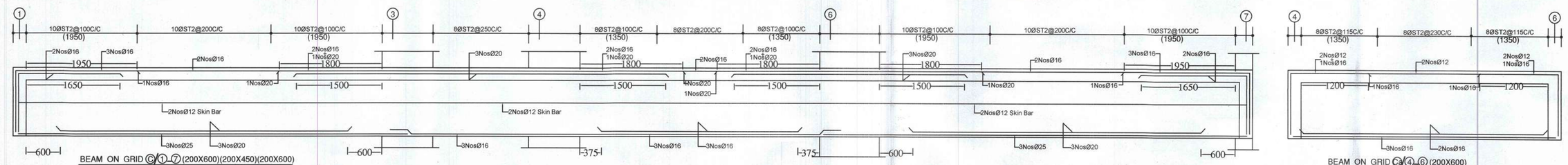
BEAM ON GRID E/6a-8 (200X375)



BEAM ON GRID A/1-8 (200X600)

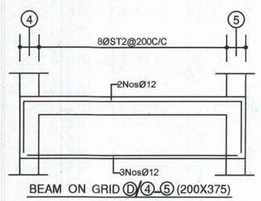


C.S. OF BEAM B6 (100X600)

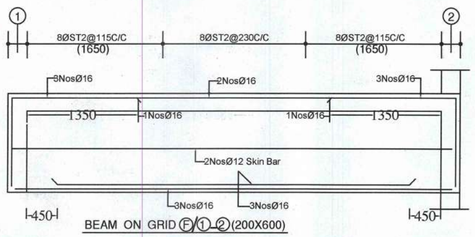


BEAM ON GRID C/1-7 (200X600)(200X450)(200X600)

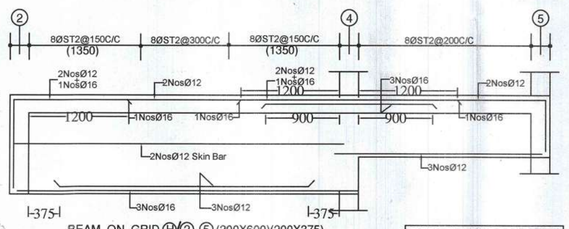
BEAM ON GRID Ca/4-6 (200X600)



BEAM ON GRID D/4-5 (200X375)

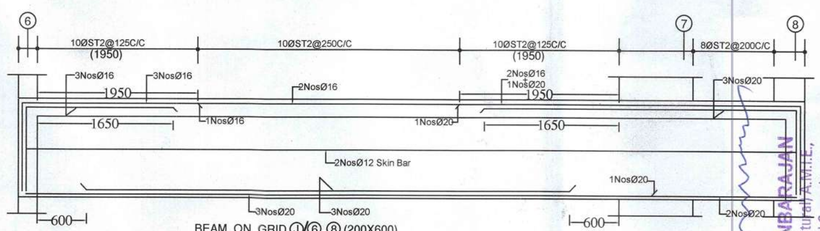


BEAM ON GRID F/1-2 (200X600)



BEAM ON GRID H/2-5 (200X600)(200X375)

FIFTH FLOOR ROOF BEAM



BEAM ON GRID J/6-8 (200X600)

S.P.S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade(SE) with vellore LPA DTCP
Reg. No. SE/Gr-I/Feb-2025/001 On 02.09.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai - 600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET AT MELAKUPPAM, TAMILNADU.

FIFTH FLOOR ROOF BEAM DETAILS...

DATE: 17 :12: 2024 | SCALE:1/4" ,3/4"

ARCHITECT:

Dwg No... 11973 S-07

BLOCK-A

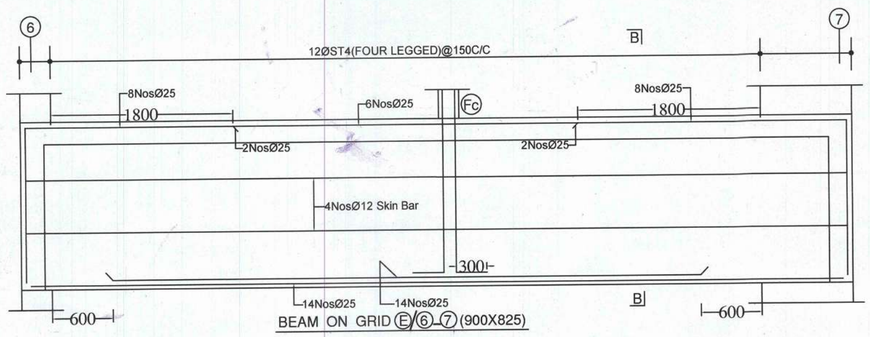
DSND : S.P.S.I

DRN : SUDHA

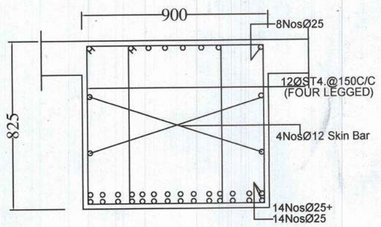
BOURNA
Consultants - Engineers

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2466 46 03

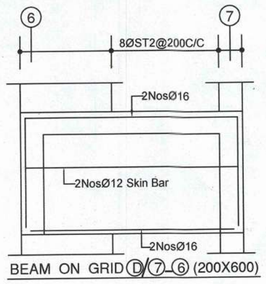
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant



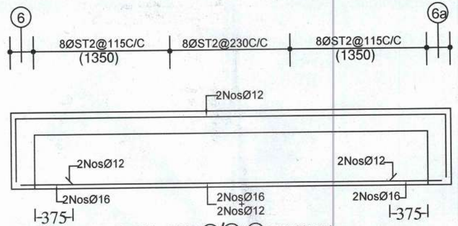
BEAM ON GRID Ⓔ/⑥-⑦ (900X825)



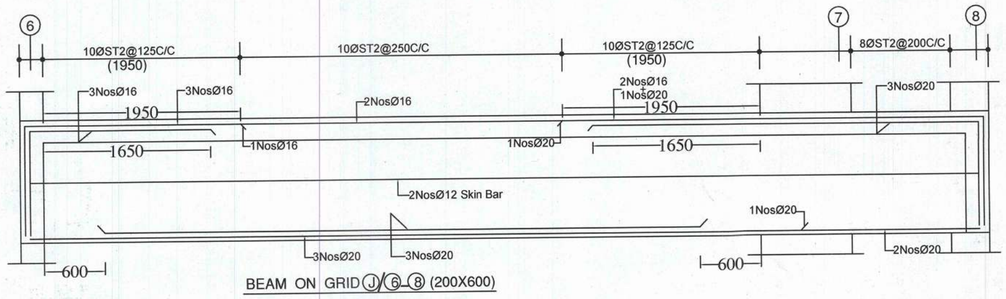
SECTION B-B



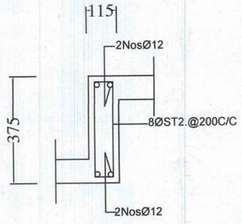
BEAM ON GRID Ⓓ/⑦-⑥ (200X600)



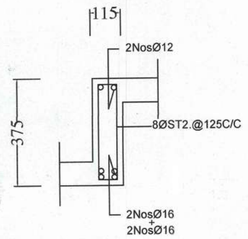
BEAM ON GRID Ⓗ/⑥-6a (200X375)



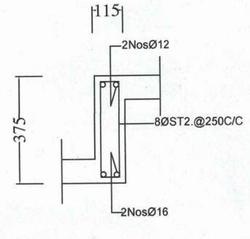
BEAM ON GRID Ⓙ/⑥-⑧ (200X600)



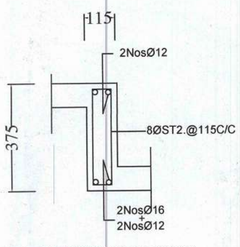
C.S. OF BEAM B2 (100X375)



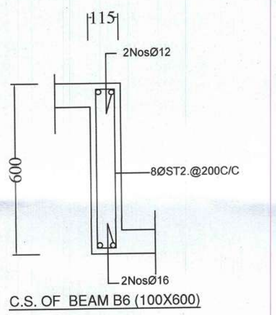
C.S. OF BEAM B4 (100X375)



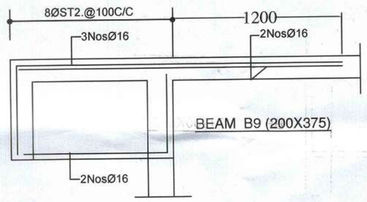
C.S. OF BEAM B3 (100X375)



C.S. OF BEAM B5 (100X375)

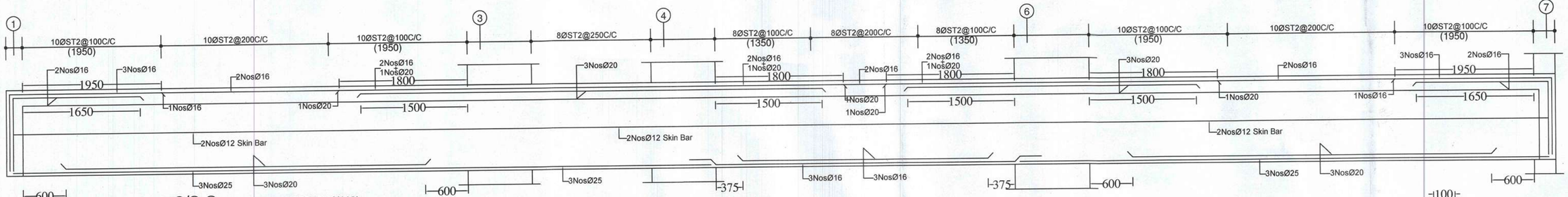


C.S. OF BEAM B6 (100X600)

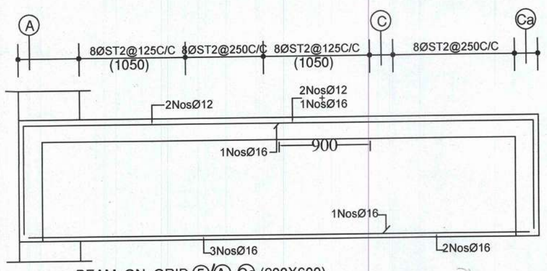


BEAM B9 (200X375)

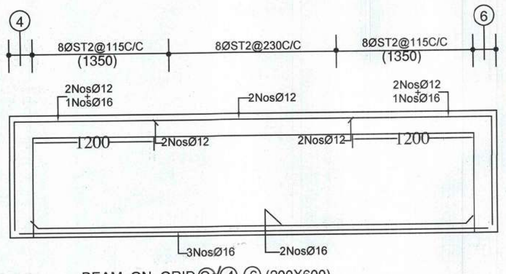
STILT FLOOR ROOF BEAM



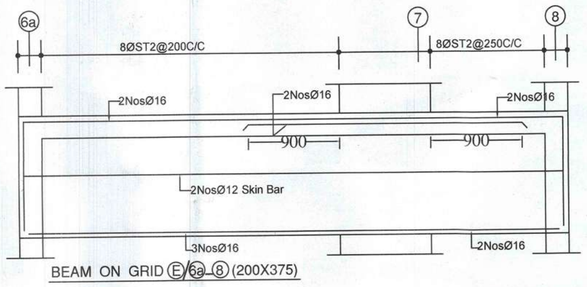
BEAM ON GRID Ⓒ/①-⑦ (200X600)(200X450)(200X600)



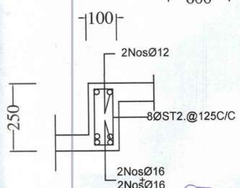
BEAM ON GRID Ⓐ/Ⓐ-Ca (200X600)



BEAM ON GRID Ⓒ/④-⑥ (200X600)



BEAM ON GRID Ⓔ/6a-⑧ (200X375)



C.S. OF BEAM B10 (100X250)

IMPORTANT NOTES :-

FOR BEAM DETAILS NOT GIVEN FOLLOW STILT FLOOR ROOF BEAM DETAILS

TYPICAL FLOOR ROOF BEAM
(FIRST,SECOND,THIRD & FOURTH FLOOR)

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Registered Structural Engineer
Grade(I/SE) with vellore LPA DTCP
Reg No:

PROPOSED RESIDENTIAL BUILDING FOR M/S. GOLDEN PLANET
AT MELKUPPAM, TAMILNADU.

STILT & TYPICAL FLOOR ROOF BEAM DETAILS...

DATE: 17 :12: 2024 | SCALE:1/4":3/4" | ARCHITECT:

Dwg No... 11973 S -06

BLOCK-A
DSND : S.P.S.I
DRN : SUDHA

BOURNA
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S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.