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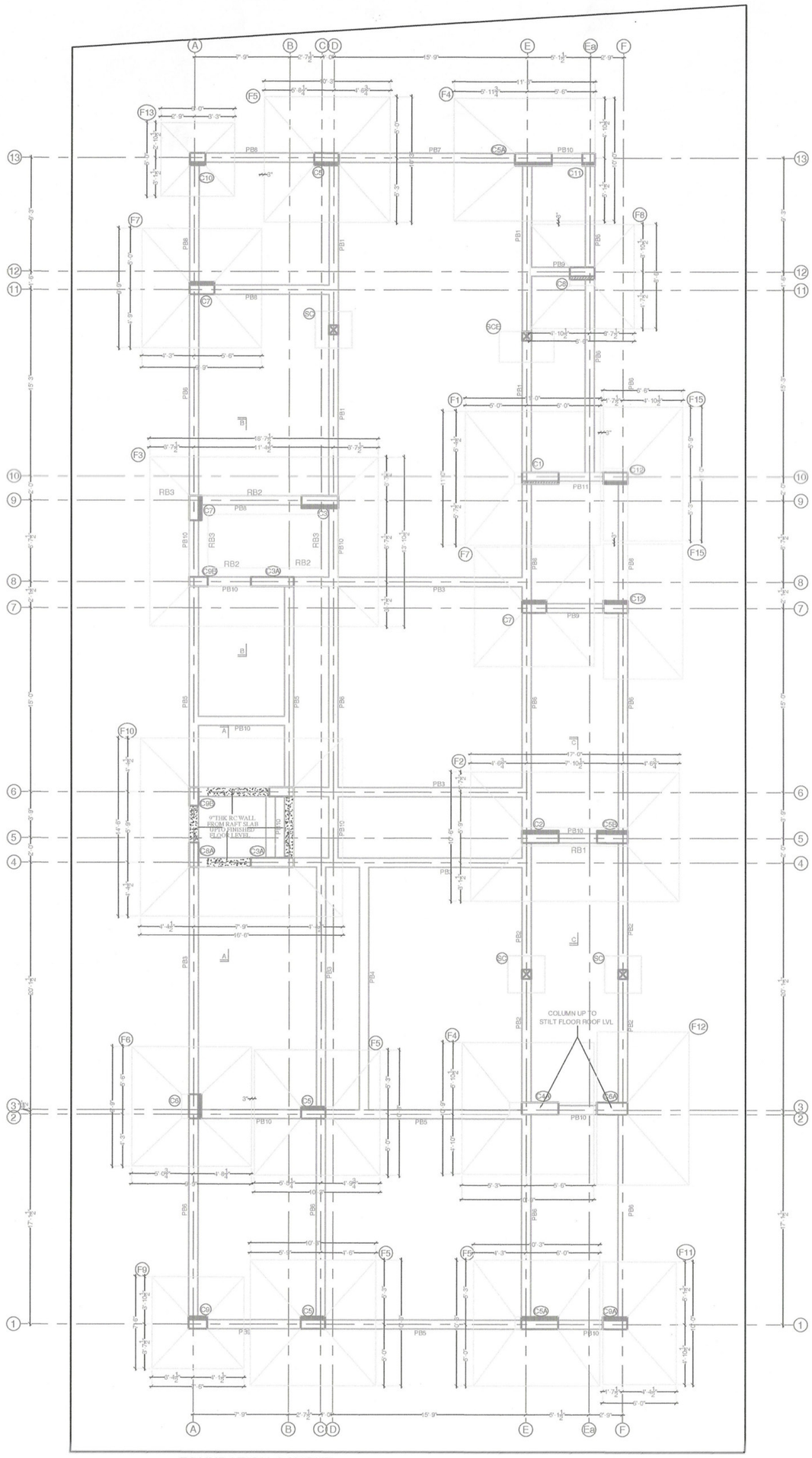
3/350/2 Mettukuppam,
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FOUNDATION LAYOUT

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 123". THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL DETAIL FOR THIS SAME LEVEL PLINTH BEAM SHALL BE OF SIZE (9"X9") (230mmX230mm) WITH 3NosΦ12@TOP AND 3NosΦ12@BTM AND 8ΦST2.@8(200mm)C/C STIRRUPS.

IMPORTANT NOTE FOR M-SAND :-

M-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
FROM A 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.

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 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.

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PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
AT RAMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

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BOURNA
Consultants - Engineers

FOUNDATION LAYOUT.

DATE: 30 :11: 2023 | SCALE:1/4",3/4"

ARCHITECT:

Dwg No.-
11819
S -01

DSND / S.P.S.I

DRN / SENTHILR

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) UNLESS NOTE OTHERWISE.
FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE. (340KG CEMENT PER Cu.m OF READY MIX CONCRETE WITHOUT FLYASH) EXCEPT FOR PILE , COLUMN CONCRETING.
2. 60 BARS ARE MILDSTEEL REMAINING ALL OTHERS BARS ARE TORSTEEL CONFORMING TO GRADE Fe500.
3. CLEAR COVER TO MAIN R/F SHALL BE AS FOLLOWS:-
COLUMN FOOTING 2"(50mm), COLUMN 1½"(40mm), RC WALL 1"(25mm), ROOF SLAB 5/8"(15mm), ROOF BEAM 1"(25mm), PILE CAP 2"(50mm) & PILE 2"(50mm). RAFT SLAB 1½"(40mm), RAFT BEAM 2" (50mm)
4. LAP LENGTH SHALL BE OF 50 TIMES THE DIAMETER OF SMALLER BAR IN COMPRESSION AND 60 TIMES THE DIAMETER OF SMALLER BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR STILT ,FIRST,SECOND ,THIRD,FOURTH & FIFTH FLOOR ONLY

SOIL NOTES:- (APPLICABLE ONLY IF THE TOP SOIL IS CLAY STRATA. OTHERWISE IGNORE THIS SOIL NOTES.)

1. THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF THE TOP SOIL IS OF MEDIUM SWELLING TYPE .THEN , IT WILL EXERT UPWARD THRUST ON THE GROUND FLOOR FLOORING. HENCE , IT IS SUGGESTED TO REMOVE TOP 30 - 40 CMS OF NATURAL SOIL AND REPLACE WITH QUARRY DUST / SAND / GRAVEL FOR GROUND FLOOR FLOORING.
3. AFTER THE EXCAVATION , THE FOUNDATION TRENCHES SHOULD BE COMPACTED PROPERLY BEFORE LAYING THE FOUNDATION. THE TOP SLUSH SHOULD BE REMOVED AND THE SURFACE COMPACTED PROPERLY. AS A PRECAUTIONARY MEASURE, SPREAD BRICK-BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT. THE FOUNDATIONS CAN BE SUBSEQUENTLY BE PLACED OVER THIS PREPARED SURFACE.

CONCRETE SHALL BE GRAD OF M35 MIX (1:1:2) FOR ALL COLUMN

COLUMN DETAILS:

FLOOR DETAILS: **ST.F.=** STILT FLOOR. **1st.F=** FIRST FLOOR. **2nd.F.=** SECONDFLOOR. **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.= (10"X30") 1st.F.= (9"X30") 2nd.F.= (9"X30") 3rd.F.= (9"X20") 4th.F.= (9"X20") 5th.F.= (9"X20")	16Nos320+ 10Nos312 16Nos316 16Nos312 14Nos312 10Nos312 10Nos312	4Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C	1'-0" 10Nos312
2.	C2	ST.F.= (10"X30") 1st.F.= (9"X30") 2nd.F.= (9"X30") 3rd.F.= (9"X30") 4th.F.= (9"X20") 5th.F.= (9"X20")	22Nos320+ 10Nos312 16Nos320 16Nos316 16Nos312 12Nos312 10Nos312	4Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C	1'-0" 10Nos312
3.	C3	ST.F.= (10"X30") 1st.F.= (9"X30") 2nd.F.= (9"X30") 3rd.F.= (9"X30") 4th.F.= (9"X26") 5th.F.= (9"X20")	22Nos320+ 10Nos312 22Nos320 4Nos320+ 16Nos316 4Nos320+ 16Nos312 16Nos312 10Nos312	4Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C 8Ø@8"C/C 8Ø@8"C/C	1'-0"
4.	C4	ST.F.= (10"X20") 1st.F.= (9"X26") 2nd.F.= (9"X26") 3rd.F.= (9"X26") 4th.F.= (9"X20") 5th.F.= (9"X20")	14Nos320+ 6Nos312 14Nos320 14Nos316 14Nos312 10Nos312 10Nos312	4Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
5.	C5	ST.F.= (10"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X20") 4th.F.= (9"X20") 5th.F.= (9"X16")	14Nos320+ 6Nos312 14Nos320 10Nos320 10Nos316 10Nos312 8Nos312	3Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
6.	C6	ST.F.= (10"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X20") 4th.F.= (9"X16") 5th.F.= (9"X16")	12Nos320+ 6Nos312 12Nos320 12Nos316 12Nos312 10Nos312 8Nos312	3Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
7.	C7	ST.F.= (10"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X20") 4th.F.= (9"X16") 5th.F.= (9"X16")	10Nos320+ 6Nos312 10Nos320 10Nos316 10Nos312 8Nos312 8Nos312	3Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
8.	C8	ST.F.= (10"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X16") 4th.F.= (9"X16") 5th.F.= (9"X16")	12Nos316+ 6Nos312 12Nos316 12Nos312 10Nos312 8Nos312 8Nos312	3Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
9.	C9	ST.F.= (10"X16") 1st.F.= (9"X16") 2nd.F.= (9"X16") 3rd.F.= (9"X16") 4th.F.= (9"X16") 5th.F.= (9"X16")	8Nos316+ 4Nos312 8Nos316 8Nos312 8Nos312 8Nos312 8Nos312	2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	4Nos312
10.	C10	ST.F.= (10"X13") 1st.F.= (9"X13") 2nd.F.= (9"X13") 3rd.F.= (9"X13") 4th.F.= (9"X13") 5th.F.= (9"X13")	8Nos312+ 3Nos312 8Nos312 8Nos312 8Nos312 8Nos312 8Nos312	2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	2Nos312
11.	C11	ST.F.= (10"X10") 1st.F.= (9"X10") 2nd.F.= (9"X10") 3rd.F.= (9"X10") 4th.F.= (9"X10") 5th.F.= (9"X10")	8Nos312+ 2Nos312 6Nos312 6Nos312 6Nos312 6Nos312 6Nos312	2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	2Nos312
12.	C12	ST.F.= (10"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X20") 4th.F.= (9"X16") 5th.F.= (9"X16")	12Nos316+ 6Nos312 12Nos316 12Nos312 10Nos312 8Nos312 8Nos312	3Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	2Nos312

CONCRETE SHALL BE GRAD OF M35 MIX (1:1:2) FOR ALL COLUMN

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SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
10.	C3A	ST.F.= (9"X30") 1st.F.= (9"X30") 2nd.F.= (9"X30") 3rd.F.= (9"X30") 4th.F.= (9"X26") 5th.F.= (9"X26")	26Nos320 22Nos320 4Nos320+ 16Nos316 4Nos320+ 16Nos312 16Nos312 10Nos312	4Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
11.	C4A	ST.F.= (10"X30") 1st.F.= - 2nd.F.= - 3rd.F.= - 4th.F.= - 5th.F.= -	16Nos320 - - - - -	3Nos/Set 8Ø@8"C/C	1'-0"
12.	C4B	ST.F.= (9"X30") 1st.F.= (9"X26") 2nd.F.= (9"X26") 3rd.F.= (9"X26") 4th.F.= (9"X20") 5th.F.= (9"X20")	18Nos320 14Nos320 14Nos316 14Nos312 10Nos312 10Nos312	3Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
13.	C5A	ST.F.= (10"X30") 1st.F.= (9"X26") 2nd.F.= (9"X26") 3rd.F.= (9"X20") 4th.F.= (9"X16") 5th.F.= (9"X16")	20Nos316+ 10Nos312 14Nos316 14Nos312 10Nos312 8Nos312 8Nos312	4Nos/Set 8Ø@8"C/C 3Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
14.	C5B	ST.F.= (10"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X20") 4th.F.= (9"X16") 5th.F.= (9"X16")	14Nos320+ 6Nos312 12Nos320 12Nos316 12Nos312 8Nos312 8Nos312	4Nos/Set 8Ø@8"C/C 2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
15.	C6A	ST.F.= (10"X26") 1st.F.= - 2nd.F.= - 3rd.F.= - 4th.F.= - 5th.F.= -	14Nos320 - - - - -	3Nos/Set 8Ø@8"C/C	1'-0"
16.	C7A	ST.F.= (9"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X20") 4th.F.= (9"X16") 5th.F.= (9"X16")	14Nos320 10Nos320 10Nos316 10Nos312 8Nos312 8Nos312	2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
17.	C8A	ST.F.= (9"X20") 1st.F.= (9"X20") 2nd.F.= (9"X20") 3rd.F.= (9"X16") 4th.F.= (9"X16") 5th.F.= (9"X16")	12Nos320 12Nos316 12Nos312 10Nos312 8Nos312 8Nos312	2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"
18.	C9A	ST.F.= (10"X20") 1st.F.= - 2nd.F.= - 3rd.F.= - 4th.F.= - 5th.F.= -	14Nos316 - - - - -	2Nos/Set 8Ø@8"C/C	1'-0"
19.	C9B	ST.F.= (9"X16") 1st.F.= (9"X16") 2nd.F.= (9"X16") 3rd.F.= (9"X16") 4th.F.= (9"X16") 5th.F.= (9"X16")	10Nos316 8Nos316 8Nos312 8Nos312 8Nos312 8Nos312	2Nos/Set 8Ø@8"C/C 8Ø@8"C/C	1'-0"

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 B/C.
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 ENGINEER.

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 IS FREE FROM DUST. SO WATER REQUIRED IS LESS 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 HANDFUL OF DRIED M-SAND ON OUR HAND AND THROW IT AT THE AIR, IF ANY DUST PRESENCE WILL STICK ON YOUR 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.

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

BOURNA
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FOUNDATION DETAIL-I.

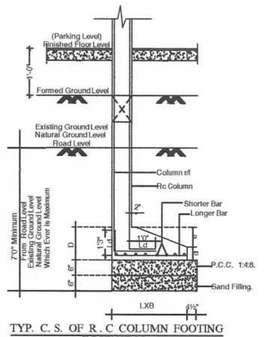
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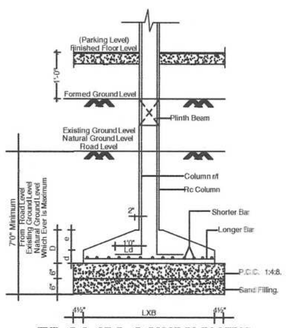
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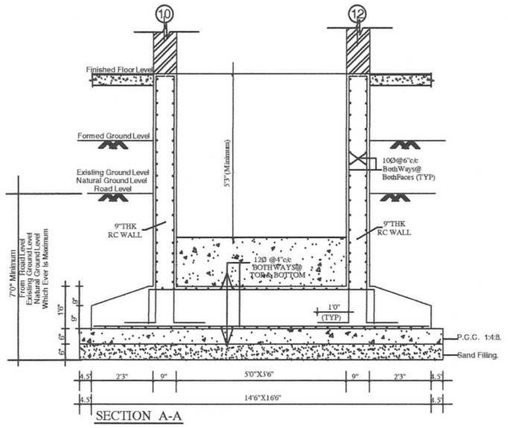
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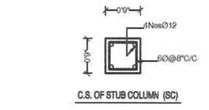
TYP. C. S. OF R . C COLUMN FOOTING
ECCENTRIC



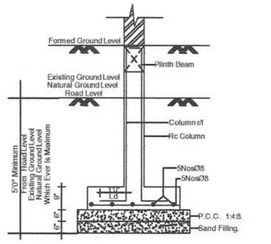
TYP. C. S. OF R . C COLUMN FOOTING
CONCENTRIC



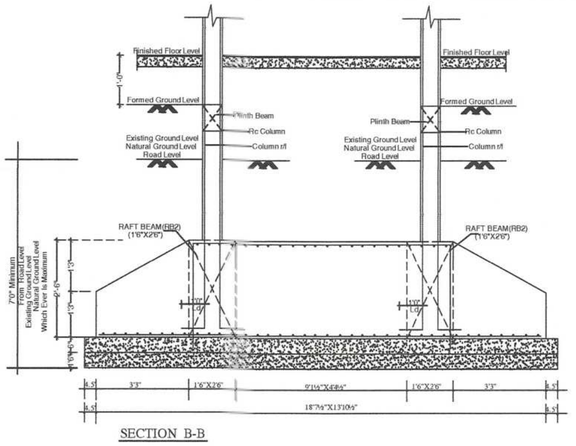
SECTION A-A



C.S. OF STUB COLUMN (SC)



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

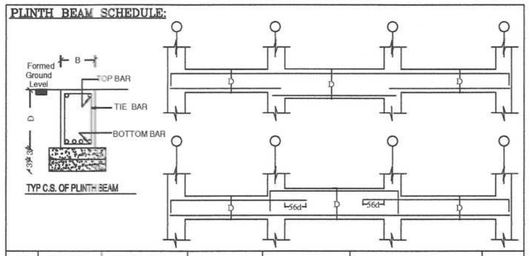


SECTION B-B

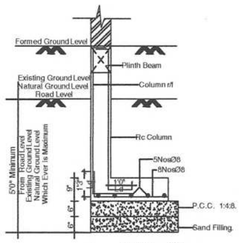
FOOTING SCHEDULE:

SL. No.	FOOTING MARK	FOOTING SIZE L	B	D	d	e	FOOTING REINFORCEMENT LONGER BAR	SHORTER BAR	Nos Of FOOTING
1.	F1	11'0"	11'0"	3'6"	0'9"	2'9"	36Nos⌀12	36Nos⌀12	
2.	F2	17'0"	10'6"	3'1½"	0'9"	2'4½"	12⌀@4"C/C BOTHWAYS @BOTTOM		
3.	F3	18'7½"	13'10½"	2'6"	1'3"	1'3"	12⌀@4½"C/C BOTHWAYS @TOP&BOTTOM		
4.	F4	10'9"	10'9"	3'1½"	0'9"	2'4½"	34Nos⌀12	34Nos⌀12	
5.	F5	10'3"	10'3"	3'0"	0'9"	2'3"	31Nos⌀12	31Nos⌀12	
6.	F6	9'9"	9'9"	2'10½"	0'9"	2'1½"	29Nos⌀12	29Nos⌀12	
7.	F7	9'9"	9'9"	2'10½"	0'9"	2'1½"	29Nos⌀12	29Nos⌀12	
8.	F8 (Eccentric)	8'6"	8'6"	2'7½"	0'9"	1'10½"	25Nos⌀12	25Nos⌀12	
9.	F9	7'6"	7'6"	2'4½"	0'9"	1'7½"	20Nos⌀12	20Nos⌀12	
10.	F10 (LIFT)	16'6"	14'6"	2'7½"	0'9"	1'10½"	12⌀@4"C/C BOTHWAYS @TOP&BOTTOM		
11.	F11 (Eccentric)	10'0"	6'0"	3'0"	1'0"	2'0"	18Nos⌀12	30Nos⌀12	
12.	F12 (Eccentric)	12'6"	7'6"	3'6"	1'0"	2'6"	25Nos⌀12	41Nos⌀12	
13.	F13	6'0"	6'0"	1'9"	0'9"	1'0"	17Nos⌀10	17Nos⌀10	
14.	F14	6'9"	3'9"	1'9"	0'9"	1'0"	8Nos⌀10	15Nos⌀10	
15.	F15 (Eccentric)	11'0"	6'6"	3'3"	1'0"	2'3"	20Nos⌀12	35Nos⌀12	
16.	F16 (Eccentric)	11'6"	10'0"	3'0"	0'9"	2'3"	31Nos⌀12	36Nos⌀12	
17.	SC	3'0"	3'0"	0'9"	-	-	5Nos⌀36	5Nos⌀36	
18.	SCE	4'6"	2'6"	-	-	-	5Nos⌀36	8Nos⌀36	

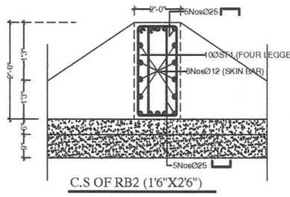
PLINTH BEAM SCHEDULE:



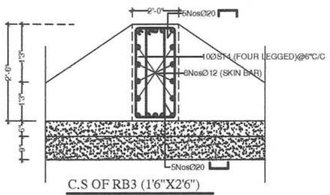
SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(9"X18")	3Nos⌀16	4Nos⌀16	8⌀ST2.@8"C/C	Formed Ground Level
2.	PB2	(9"X18")	3Nos⌀16	3Nos⌀16	8⌀ST2.@8"C/C	
3.	PB3	(9"X18")	3Nos⌀16	3Nos⌀16 3Nos⌀16	8⌀ST2.@4"C/C(End 1/3rd Span) 8⌀ST2.@8"C/C(Mid 1/3rd Span) 8⌀ST2.@4"C/C(End 1/3rd Span)	
4.	PB4	(9"X18")	3Nos⌀16	3Nos⌀16 2Nos⌀16	8⌀ST2.@5"C/C(End 1/3rd Span) 8⌀ST2.@10"C/C(Mid 1/3rd Span) 8⌀ST2.@5"C/C(End 1/3rd Span)	
5.	PB5	(9"X18")	3Nos⌀16	3Nos⌀16 3Nos⌀12	8⌀ST2.@6"C/C(End 1/3rd Span) 8⌀ST2.@12"C/C(Mid 1/3rd Span) 8⌀ST2.@6"C/C(End 1/3rd Span)	
6.	PB6	(9"X18")	2Nos⌀16	4Nos⌀16	8⌀ST2.@8"C/C	
7.	PB7	(9"X18")	2Nos⌀16	3Nos⌀16	8⌀ST2.@8"C/C	
8.	PB8	(9"X13")	2Nos⌀12	4Nos⌀12	8⌀ST2.@10"C/C	
9.	PB9	(9"X13")	2Nos⌀12	3Nos⌀12	8⌀ST2.@10"C/C	
10.	PB10	(9"X13")	2Nos⌀12	2Nos⌀12	8⌀ST2.@10"C/C	
11.	PB11	(9"X18")	2Nos⌀16	2Nos⌀16	8⌀ST2.@8"C/C	



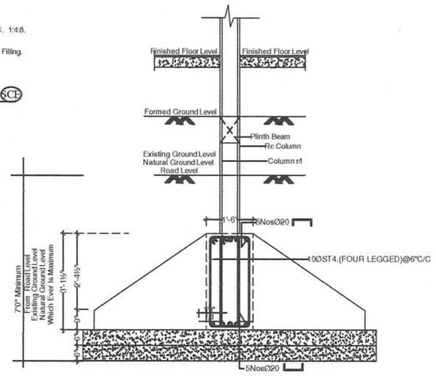
TYP. C. S. OF R . C STUB COLUMN FOOTING (SCE)
ECCENTRIC



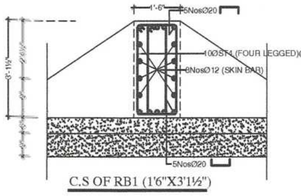
C.S OF RB2 (1'6"X2'6")



C.S OF RB3 (1'6"X2'6")



C.S OF RB2 (1'6"X3'1½")
SECTION C-C



C.S OF RB1 (1'6"X3'1½")

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.
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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 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.

S. P. S. INBARAJAN,
M.E., (Struct)A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg.No.SE(SR-1)/2024/022009 Dt. 27.02.2024
Door No.50, Kirupasankari Street,
West Mambalam. Chennai - 600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
AT KAMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

FOUNDATION DETAIL-II.

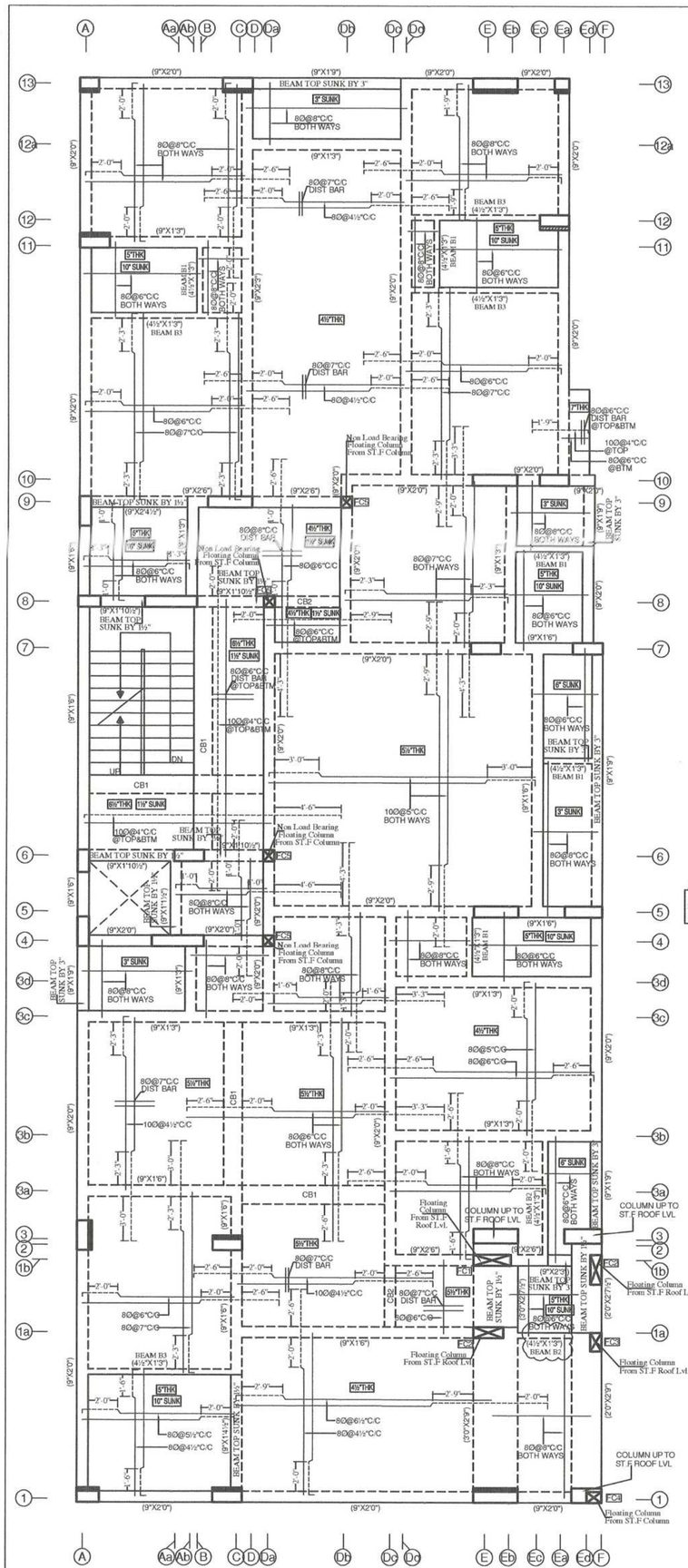
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11819
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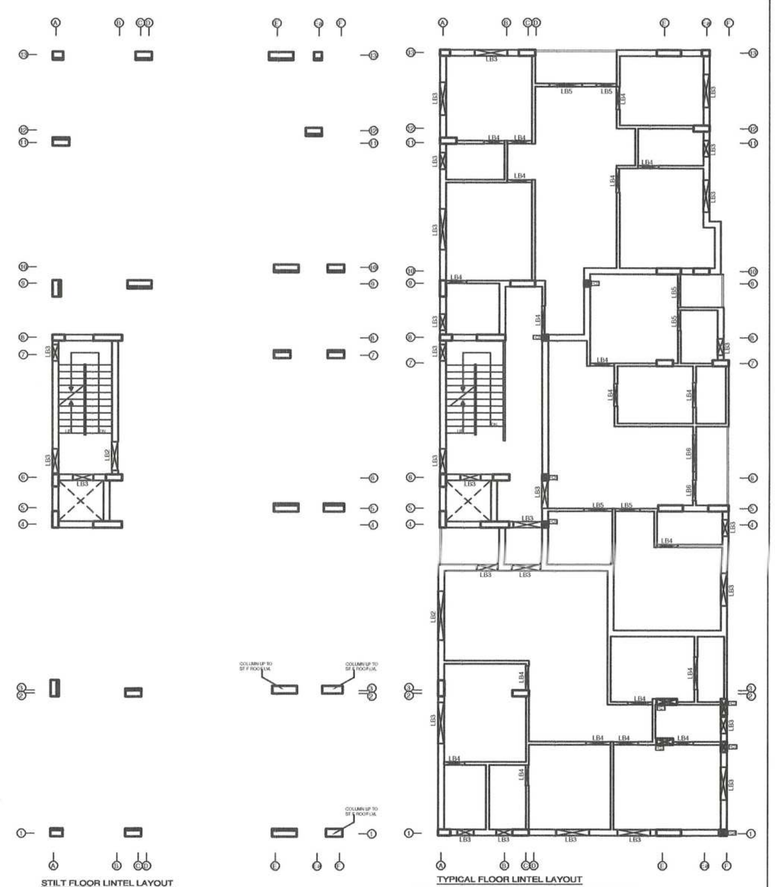
DSND : S.P.S.I
DRN : SSM/THILAR

BOURNA
Consultants - Engineers

NO 50, Kirupasankari Street, West Mambalam,
Chennai - 600 033. Ph : 24868 48 03
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant



STILT FLOOR ROOF SLAB LAYOUT



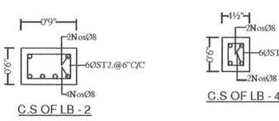
STILT FLOOR LINTEL LAYOUT

LB1 to LB4 ARE CONTINOUS LINTEL IN ALL 9"BRICK WALL / OPENING AND 4½" BRICK WALL / OPENING IN BETWEEN COLUMN AND ALSO ON WALLS WITH OUT OPENING UNLESS NOTED OTHERWISE.

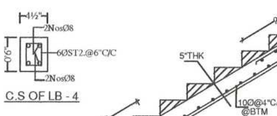
TYPICAL FLOOR LINTEL LAYOUT
(FIRST, SECOND, THIRD, FOURTH & FIFTH FLOOR)

LB1 to LB4 ARE CONTINOUS LINTEL IN ALL 9"BRICK WALL / OPENING AND 4½" BRICK WALL / OPENING IN BETWEEN COLUMN AND ALSO ON WALLS WITH OUT OPENING UNLESS NOTED OTHERWISE.

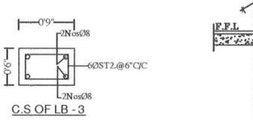
IMPORTANT NOTES:
PROVIDE SILL LVL BEAM (9"X 4½") WITH 1'-0" BEARING ON EITHER SIDE FOR ALL WINDOWS, FRENCH WINDOWS, A/C OPENINGS.
PROVIDE 4Nos⌀8 FOR SILL BEAM WITH STIRRUPS 8⌀ST2.@6"C/C.



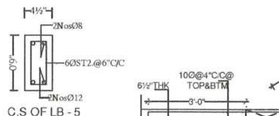
C.S OF LB - 2



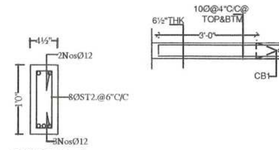
C.S OF LB - 4



C.S OF LB - 3



C.S OF LB - 5

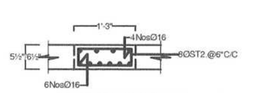


C.S OF LB - 6

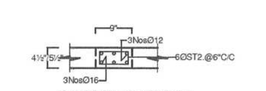
SECTION 1-1

SECTION 3-3

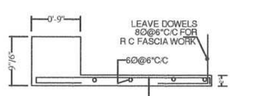
SECTION 2-2



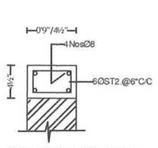
C.S. OF CB1 (1'3"X 5½"/5½")



C.S. OF CB2 (9"X 4½"/5½")



TYP. C.S. OF SUNSHADE / LOFT



TYP. C.S. OF SILL LVL BEAM

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 8⌀@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.

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 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 FORMWORK.
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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.

FLOATING COLUMN DETAILS — 1st.F.= FIRST FLOOR. 2nd.F.= SECONDFLOOR. 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.	FC1	1st.F. –	(9"X26")	16Nos⌀20	3Nos/Set 8⌀@6"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. –	(9"X26")	16Nos⌀16		
		3rd.F. –	(9"X26")	16Nos⌀12		
		4th.F. –	(9"X20")	12Nos⌀12	2Nos/Set 8⌀@6"C/C	
		5th.F. –	(9"X20")	10Nos⌀12	8⌀@6"C/C	
2.	FC2	1st.F. –	(9"X20")	12Nos⌀16	2Nos/Set 8⌀@6"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. –	(9"X20")	4Nos⌀16+ 8Nos⌀12		
		3rd.F. –	(9"X16")	10Nos⌀12	8⌀@6"C/C	
		4th.F. –	(9"X16")	8Nos⌀12		
		5th.F. –	(9"X16")	8Nos⌀12		
3.	FC3	1st.F. –	(9"X13")	4Nos⌀16+ 4Nos⌀12	8⌀@6"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. –	(9"X13")	8Nos⌀12		
		3rd.F. –	(9"X13")	8Nos⌀12		
		4th.F. –	(9"X13")	8Nos⌀12		
		5th.F. –	(9"X13")	8Nos⌀12		
4.	FC4	1st.F. –	(9"X10")	4Nos⌀16+ 4Nos⌀12	8⌀@6"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. –	(9"X10")	8Nos⌀12		
		3rd.F. –	(9"X10")	6Nos⌀12		
		4th.F. –	(9"X10")	6Nos⌀12		
		5th.F. –	(9"X10")	6Nos⌀12		
5.	FC5	1st.F. –	(9"X9")	4Nos⌀16	8⌀@6"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. –	(9"X9")	4Nos⌀16		
		3rd.F. –	(9"X9")	4Nos⌀16		
		4th.F. –	(9"X9")	4Nos⌀16		
		5th.F. –	(9"X9")	4Nos⌀16		

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AT KAMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

NO 50, Kirupasankari Street, West Mambalam,
Chennai - 600 033. Ph : 2485 46 03

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

BOURNA
Consultants - Engineers

STILT FLOOR ROOF SLAB LAYOUT, STILT,FIRST,SECOND,THIRD,FOURTH& FIFTH FLOOR LINTEL LAYOUT& STAIRCASE DETAILS

DATE: 25 :01: 2024 SCALE:1/4",3/4"

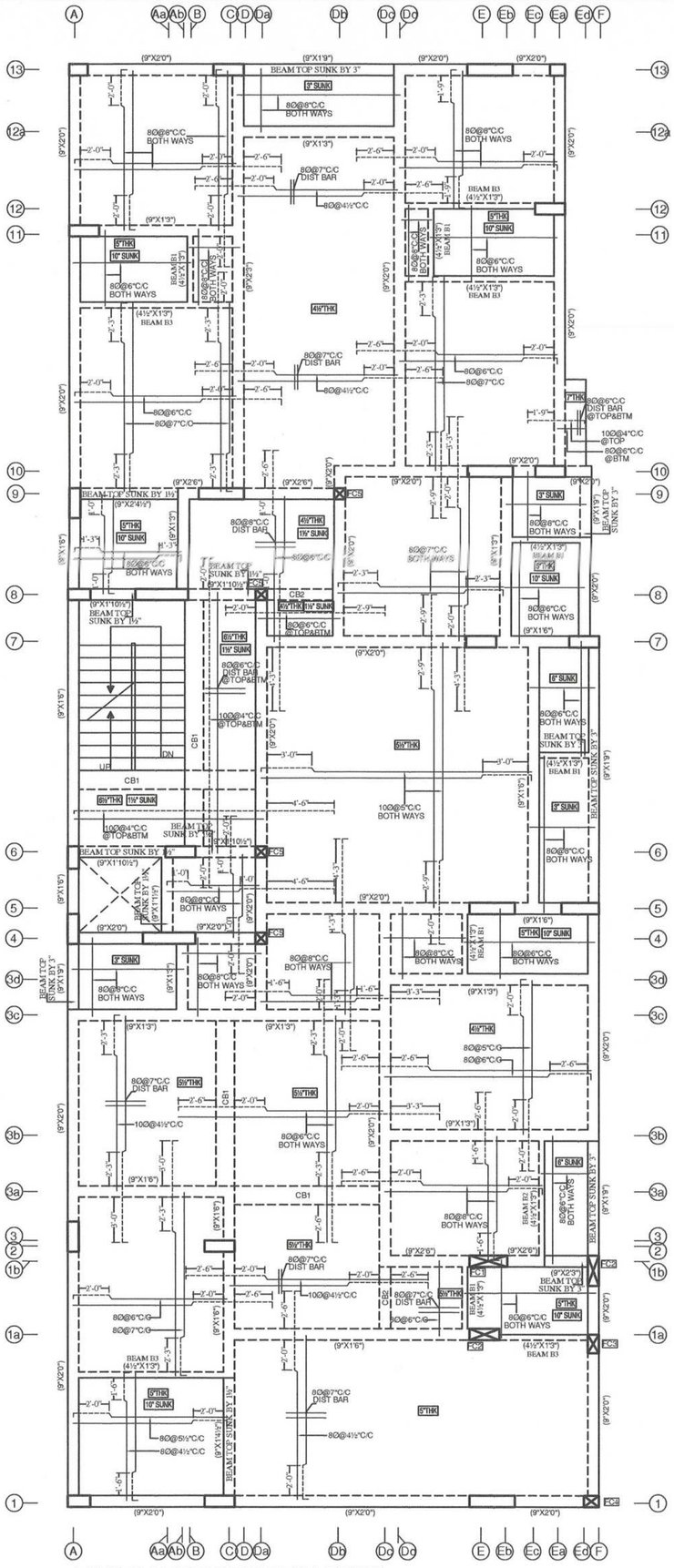
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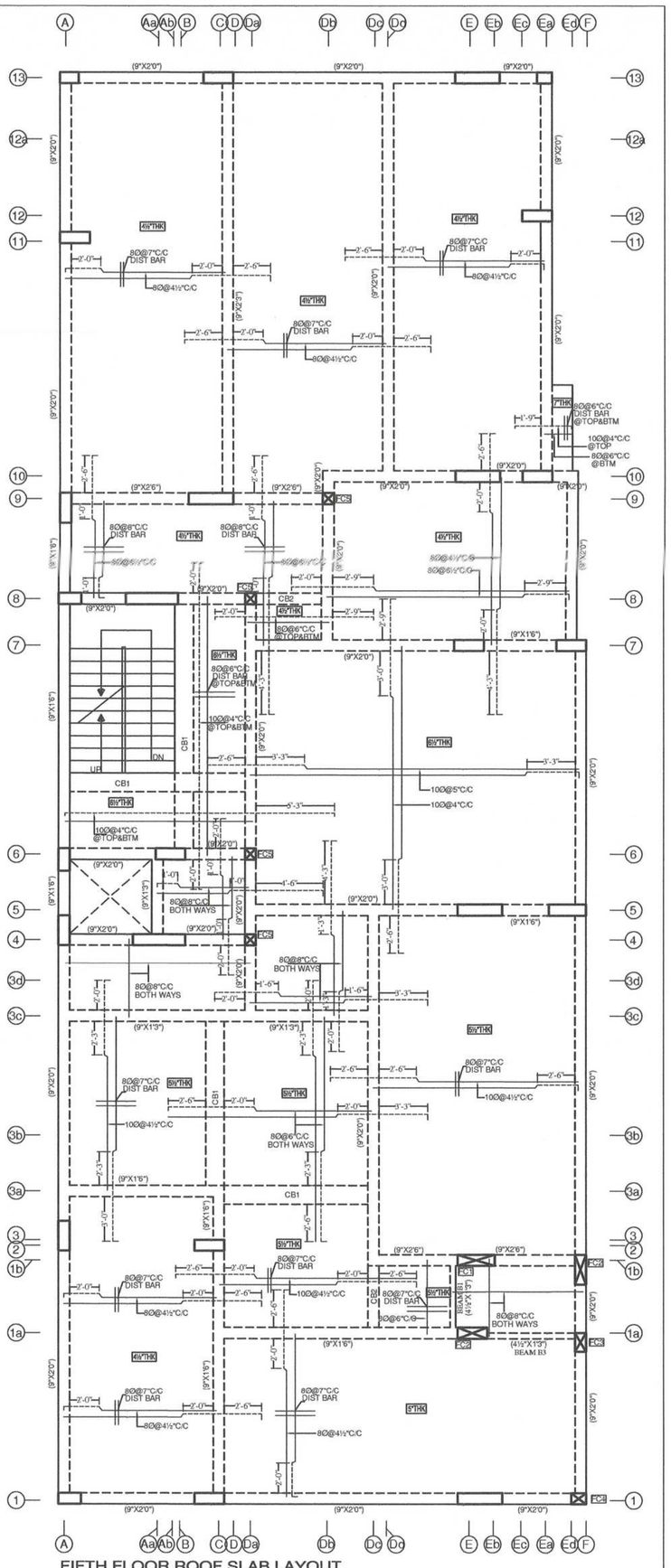
DSND : S.P.S.I

DRN : SUDHA

S. P. S. Imbarajan
M.E., (Str...)
Structural Engineer
Registered by the Govt. of T.N.
Grade
Reg. No. SE/GR.I/...
Door No.50, ...
West Mambalam, ...



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



FIFTH FLOOR ROOF SLAB LAYOUT

IMPORTANT NOTES :-

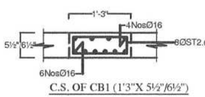
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3. — — — — — LINE INDICATES BAR AT TOP IN PLAN, ———— LINE INDICATES BAR AT BOTTOM IN PLAN.
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IMPORTANT NOTE FOR M-SAND :-

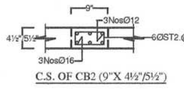
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7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.



C.S. OF CB1 (1'3"X 5½"/6½")



C.S. OF CB2 (9"X 4½"/5½")

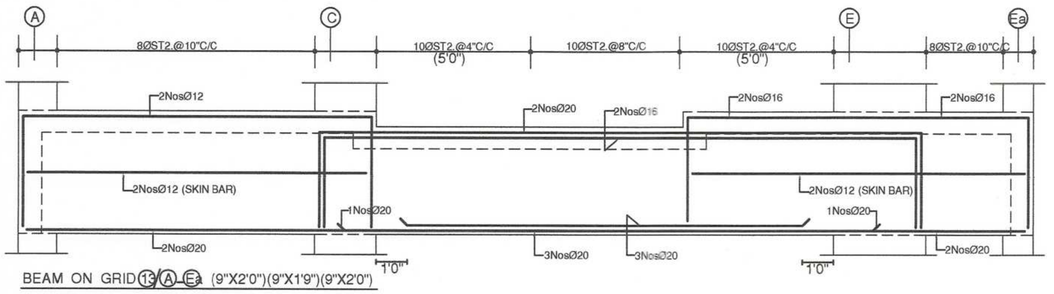
FLOATING COLUMN DETAILS — 1st.F.= FIRST FLOOR. 2nd.F.= SECONDFLOOR. 3rd.F.= THIRD FLOOR. 4th.F.= FOURTH FLOOR. 5th.F.= FIFTH FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	FC1	1st.F. – (9"X2'6")	16Nos⌀20	3Nos/Set 8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. – (9"X2'6")	16Nos⌀16		
		3rd.F. – (9"X2'6")	16Nos⌀12		
		4th.F. – (9"X2'0")	12Nos⌀12	2Nos/Set 8Ø@8"C/C	
		5th.F. – (9"X2'0")	10Nos⌀12	8Ø@8"C/C	
2.	FC2	1st.F. – (9"X2'0")	12Nos⌀16	2Nos/Set 8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. – (9"X2'0")	4Nos⌀16+ 8Nos⌀12		
		3rd.F. – (9"X1'6")	10Nos⌀12	8Ø@8"C/C	
		4th.F. – (9"X1'6")	8Nos⌀12		
		5th.F. – (9"X1'6")	8Nos⌀12		
3.	FC3	1st.F. – (9"X1'3")	4Nos⌀16+ 4Nos⌀12	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. – (9"X1'3")	8Nos⌀12		
		3rd.F. – (9"X1'3")	8Nos⌀12		
		4th.F. – (9"X1'3")	8Nos⌀12		
		5th.F. – (9"X1'3")	8Nos⌀12		
4.	FC4	1st.F. – (9"X1'0")	4Nos⌀16+ 4Nos⌀12	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. – (9"X1'0")	8Nos⌀12		
		3rd.F. – (9"X1'0")	6Nos⌀12		
		4th.F. – (9"X1'0")	6Nos⌀12		
		5th.F. – (9"X1'0")	6Nos⌀12		
5.	FC5	1st.F. – (9"X9")	4Nos⌀16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd.F. – (9"X9")	4Nos⌀16		
		3rd.F. – (9"X9")	4Nos⌀16		
		4th.F. – (9"X9")	4Nos⌀16		
		5th.F. – (9"X9")	4Nos⌀16		

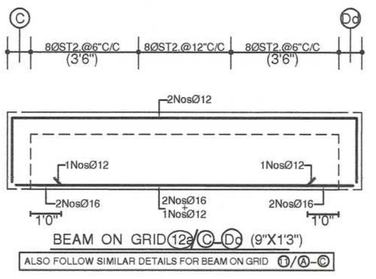
S.P.S. INBARAJAN
M.E.,(Struct.),A.M.I.E.
Structural Consultant
Registered Structural Engineer
Grade-1(SE) in CMDA
Reg. No SE/GR-1/2024/02/009 Dt. 27.02.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
AT NO.A-33, AMMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

NO 50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03	FIRST,SECOND,THIRD,FOURTH&FIFTH ROOF SLAB LAYOUT	Dwg No... 11819 S -05
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant	DATE: 25 :01: 2024 SCALE:1/4",3/4"	
BOURNA Consultants - Engineers	ARCHITECT:	DSND : S.P.S.I
		DRN : SUDHA

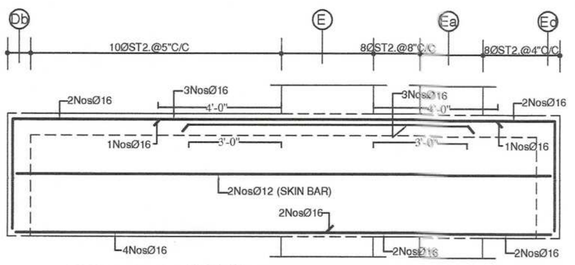


BEAM ON GRID 13 (A-Ea) (9"X2'0")(9"X1'9")(9"X2'0")

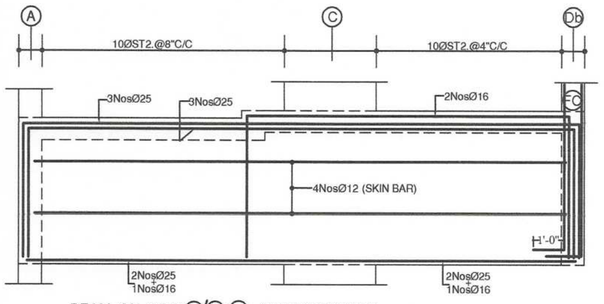


BEAM ON GRID 12a (C-Dc) (9"X1'3")

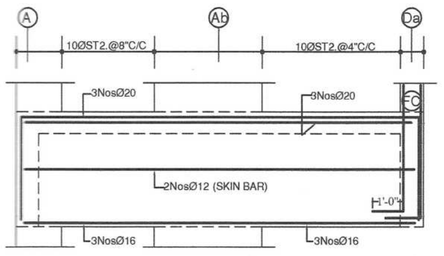
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID 5/A-C



BEAM ON GRID 10 (Db-Ec) (9"X2'0")

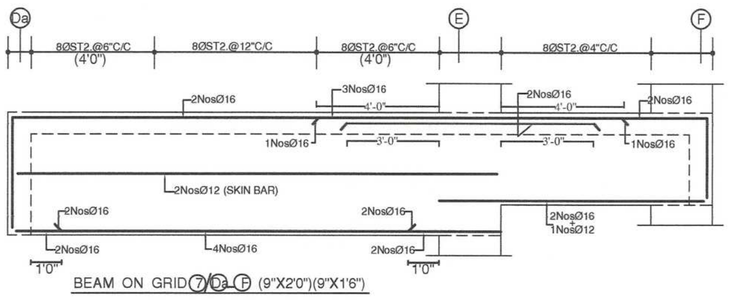


BEAM ON GRID 9 (A-Db) (9"X2'4½")(9"X2'6")

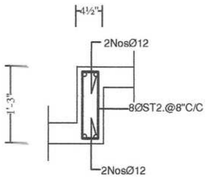


BEAM ON GRID 8 (A-Da) (9"X1'10½")

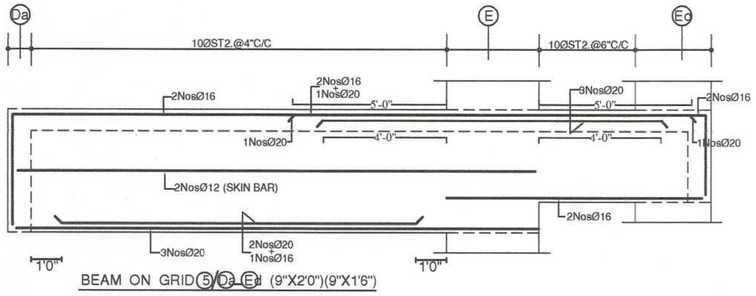
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID 6/A-Da



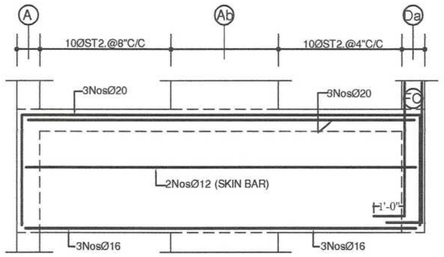
BEAM ON GRID 7 (Da-F) (9"X2'0")(9"X1'6")



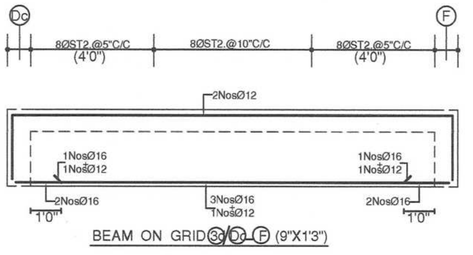
C.S. OF BEAM B1 (4½"X1'3")



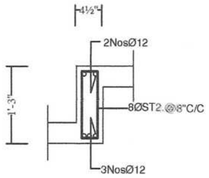
BEAM ON GRID 5 (Da-E) (9"X2'0")(9"X1'6")



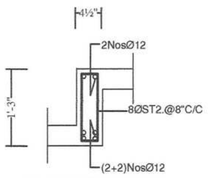
BEAM ON GRID 4 (A-Da) (9"X2'0")



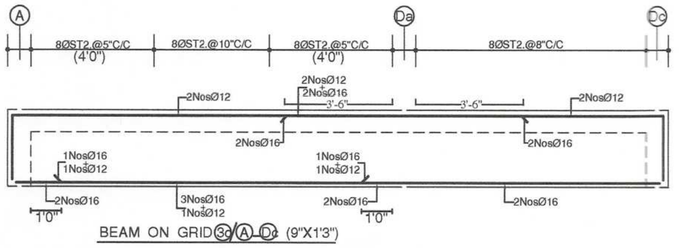
BEAM ON GRID 3d (Dc-F) (9"X1'3")



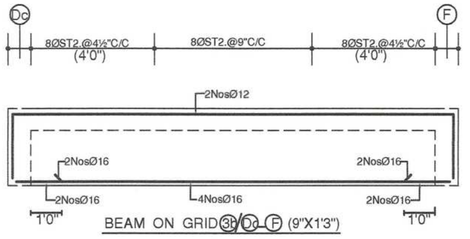
C.S. OF BEAM B2 (4½"X1'3")



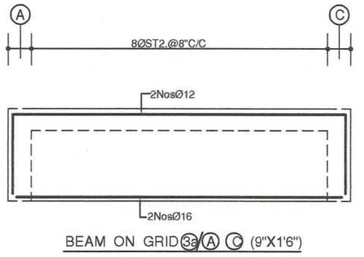
C.S. OF BEAM B3 (4½"X1'3")



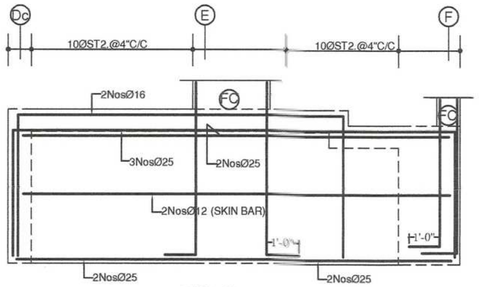
BEAM ON GRID 3c (A-Dc) (9"X1'3")



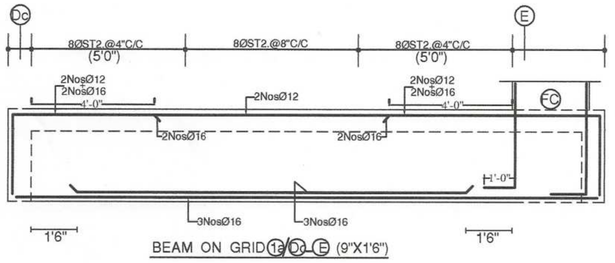
BEAM ON GRID 3b (Dc-F) (9"X1'3")



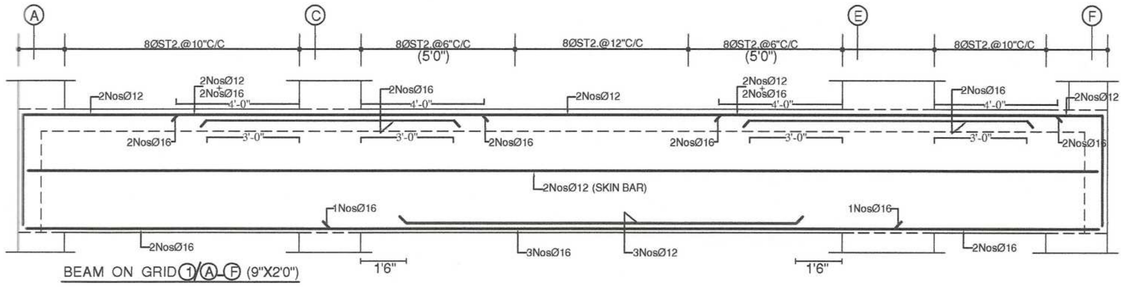
BEAM ON GRID 3a (A-C) (9"X1'6")



BEAM ON GRID 1b (Dc-F) (9"X2'6")(9"X2'3")



BEAM ON GRID 1a (Dc-E) (9"X1'6")



BEAM ON GRID 1 (A-F) (9"X2'0")

STILT FLOOR ROOF BEAM DETAILS - I..

NOTE:-

1. FOR FOUNDATION DETAILS REFER DRG NO : 11819 - S01 , S02 & S03.
2. FOR ROOF SLAB DETAILS REFER DRG NO : 11819 - S04.

PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
Door No.50, Kirupasankari Street, West Mambalam, Chennai-600 033.

STILT FLOOR
ROOF BEAM DETAILS - I..

Dwg No... 11819 S -06

DATE: 25 :01 : 2024 | SCALE:1/4":3/4"

ARCHITECT:

DSND : S.P.S.I

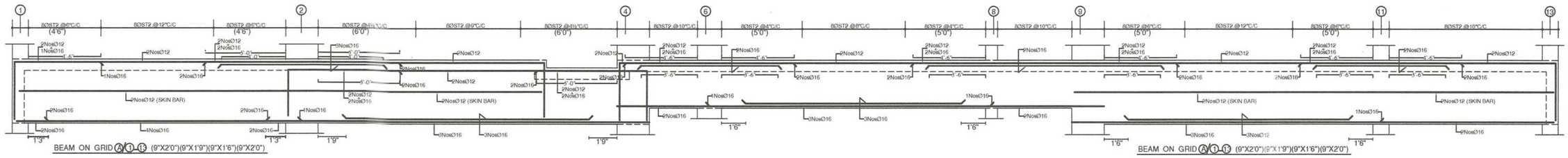
DRN : K.Raja

BOURNA
Consultants - Engineers

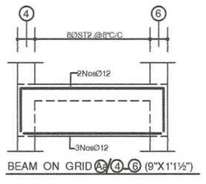
NO 50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03

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

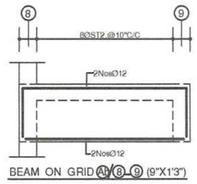
S. P. INBARAJAN, M.E., A.M.I.E., Structural Consultant
Registered Structural Engineer Grade-I (SE) in CMDA
Reg. No: SE/CR-I/2024/0036



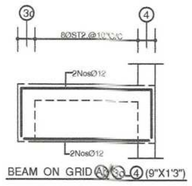
BEAM ON GRID Ⓐ①-⑬ (9"X2'0")(9"X1'9")(9"X1'6")(9"X2'0")



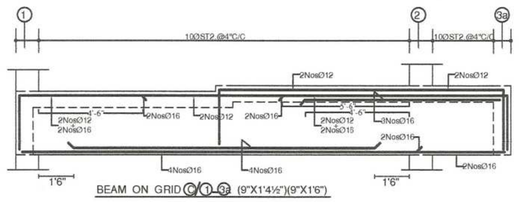
BEAM ON GRID Ⓐ④-⑥ (9"X1'1½")



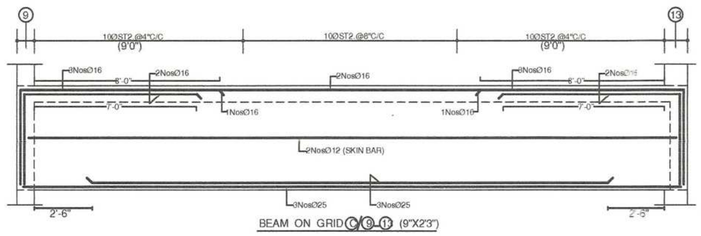
BEAM ON GRID Ⓐ⑧-⑨ (9"X1'3")



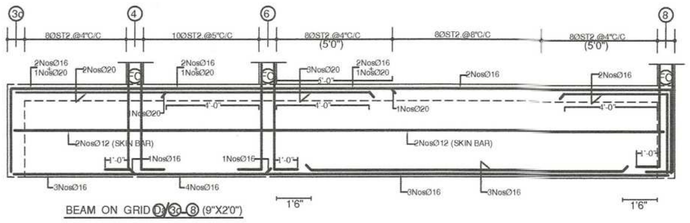
BEAM ON GRID Ⓐ③-④ (9"X1'3")



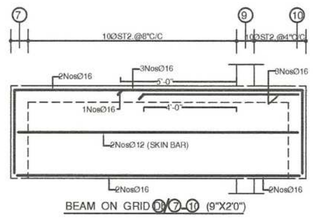
BEAM ON GRID Ⓒ①-③a (9"X1'4½")(9"X1'6")



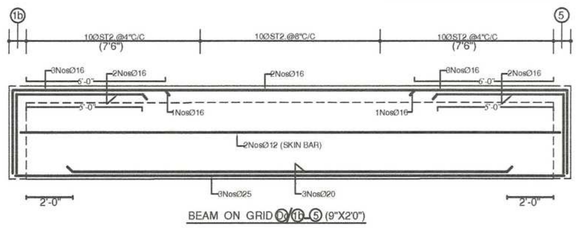
BEAM ON GRID Ⓒ⑨-⑬ (9"X2'3")



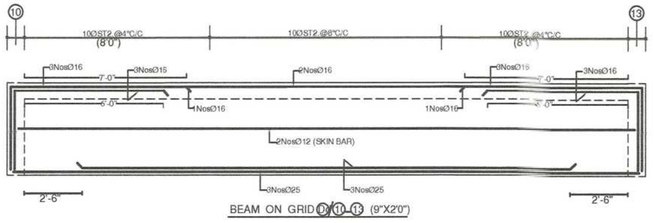
BEAM ON GRID Ⓓ③-⑧ (9"X2'0")



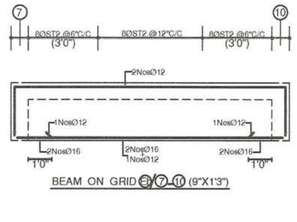
BEAM ON GRID Ⓓ⑦-⑩ (9"X2'0")



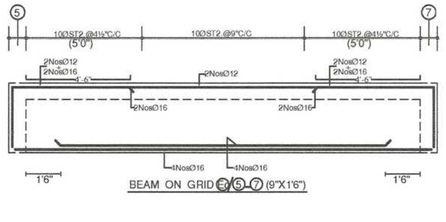
BEAM ON GRID Ⓓ⑩-⑤ (9"X2'0")



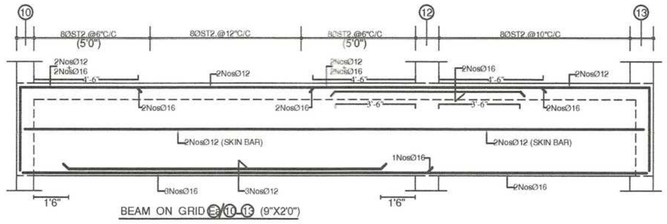
BEAM ON GRID Ⓓ⑩-⑬ (9"X2'0")



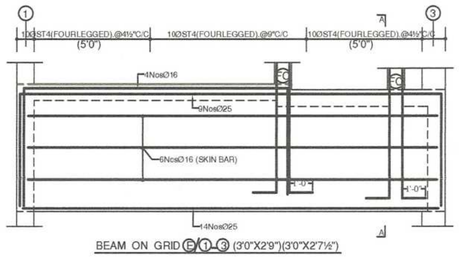
BEAM ON GRID Ⓔ⑦-⑩ (9"X1'3")



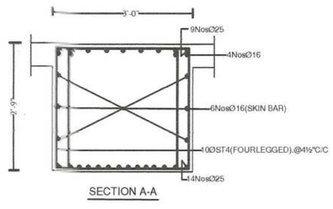
BEAM ON GRID Ⓔ⑤-⑦ (9"X1'6")



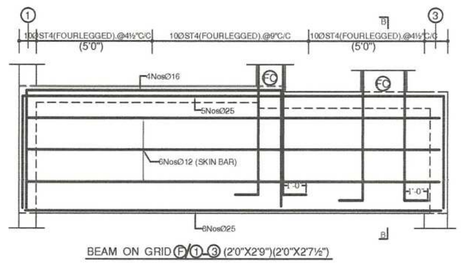
BEAM ON GRID Ⓔ⑩-⑬ (9"X2'0")



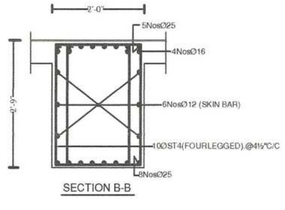
BEAM ON GRID Ⓕ①-③ (3'0"X2'9")(3'0"X2'7½")



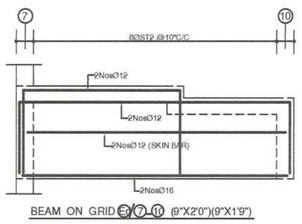
SECTION A-A



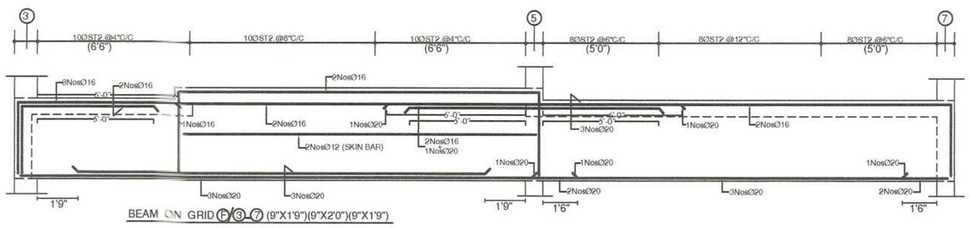
BEAM ON GRID Ⓕ①-③ (2'0"X2'9")(2'0"X2'7½")



SECTION B-B



BEAM ON GRID Ⓕ⑦-⑩ (9"X2'0")(9"X1'9")



BEAM ON GRID Ⓕ③-⑦ (9"X1'9")(9"X2'0")(9"X1'9")

STILT FLOOR ROOF BEAM DETAILS - II..

NOTE:–
1. FOR FOUNDATION DETAILS REFER DRG NO : 11819 - S01 , S02 & S03.
2. FOR ROOF SLAB DETAILS REFER DRG NO : 11819 - S05.

PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
AT KAMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

STILT FLOOR
ROOF BEAM DETAILS - II..

Dwg No.. 11819 S -07

DATE: 25.01.2024 | SCALE:1/4"-1'0" | DSN/D : S.P.S.I | DRN : K.Raja

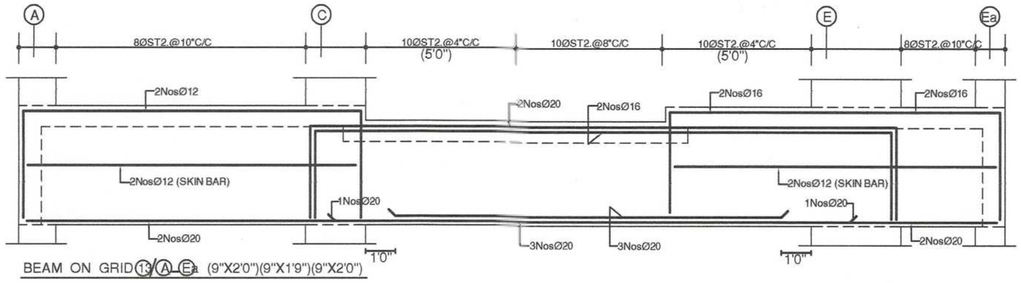
ARCHITECT:

BOURNA
Consultants - Engineers

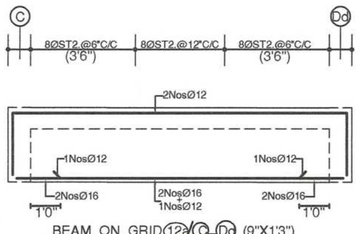
NO 50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03

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

S P S. INBARAJAN,
M.E., (Struct)A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade-I (SE) in CMDA
Regn No SE/GR-1/2024/02/009 Dt. 27.02.2024
Flat No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

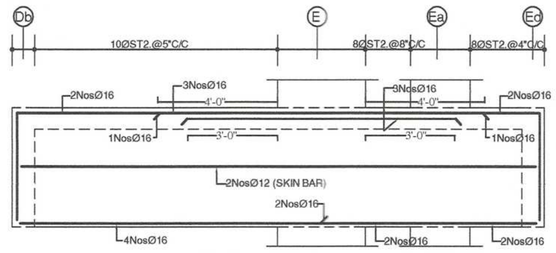


BEAM ON GRID 13/(A-Ea) (9"X2'0")(9"X1'9")(9"X2'0")

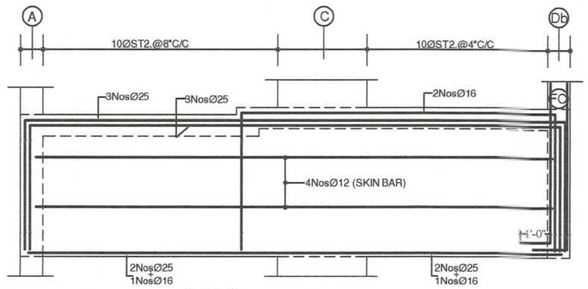


BEAM ON GRID 12a/(C-Dd) (9"X1'3")

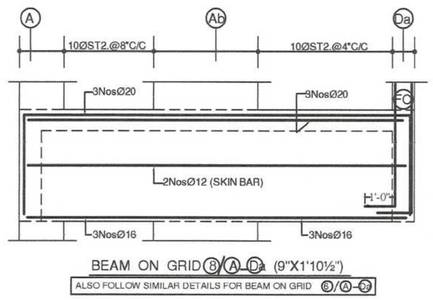
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID 5/(A-C)



BEAM ON GRID 10/(Db-Ec) (9"X2'0")

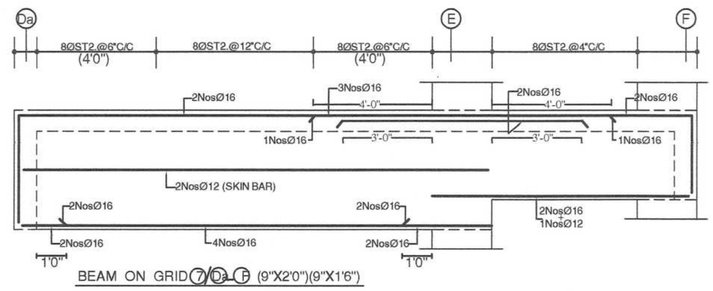


BEAM ON GRID 9/(A-Db) (9"X2'4½")(9"X2'6")

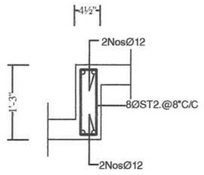


BEAM ON GRID 8/(A-Da) (9"X1'10½")

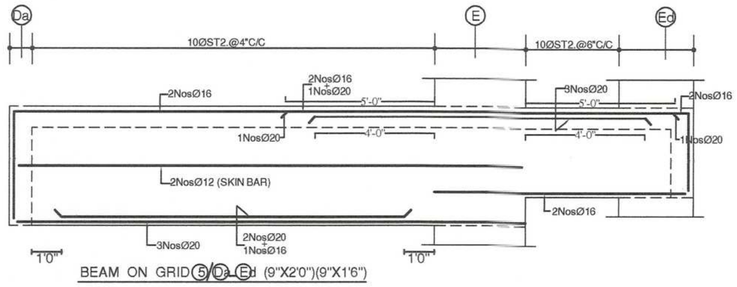
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID 6/(A-C)



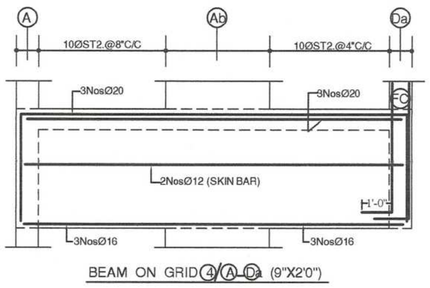
BEAM ON GRID 7/(Da-F) (9"X2'0")(9"X1'6")



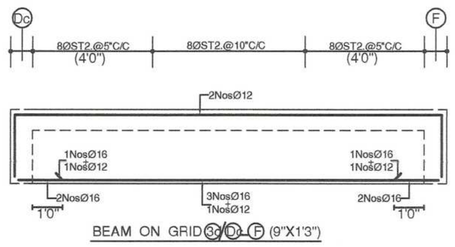
C.S. OF BEAM B1 (4½"X1'3")



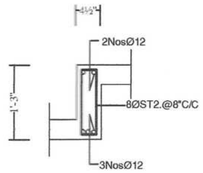
BEAM ON GRID 5/(Da-Ec) (9"X2'0")(9"X1'6")



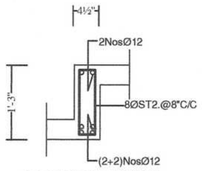
BEAM ON GRID 4/(A-Da) (9"X2'0")



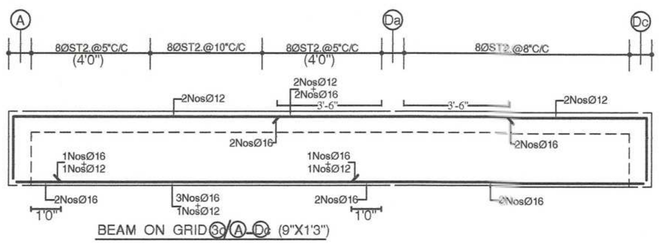
BEAM ON GRID 3d/(Dc-F) (9"X1'3")



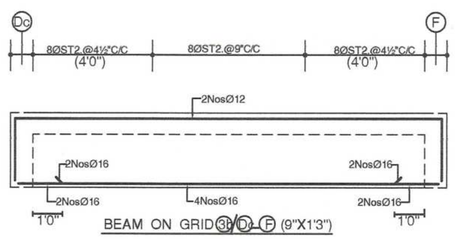
C.S. OF BEAM B2 (4½"X1'3")



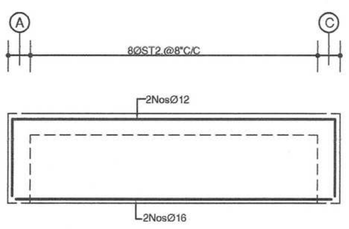
C.S. OF BEAM B3 (4½"X1'3")



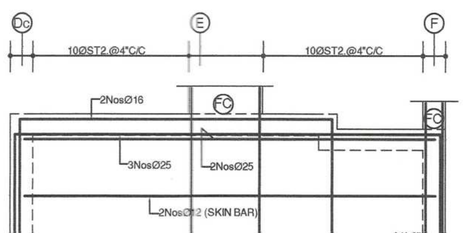
BEAM ON GRID 3c/(A-Da) (9"X1'3")



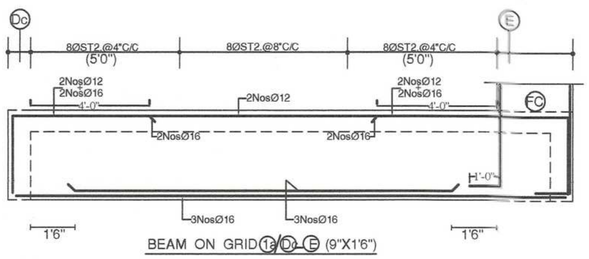
BEAM ON GRID 3b/(Dc-F) (9"X1'3")



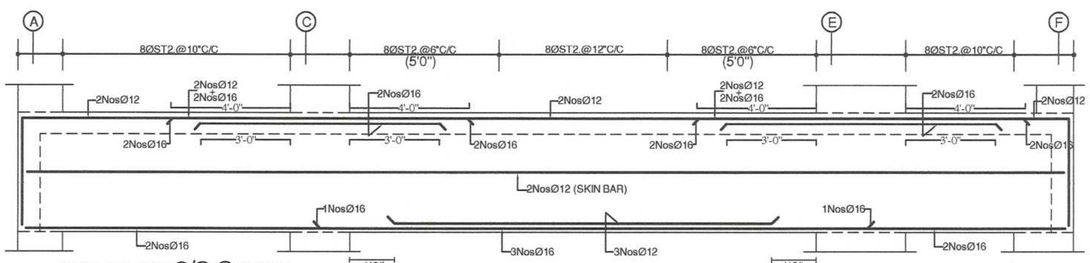
BEAM ON GRID 3a/(A-C) (9"X1'6")



BEAM ON GRID 1b/(Dc-F) (9"X2'6")(9"X2'3")



BEAM ON GRID 1a/(Dc-E) (9"X1'6")



BEAM ON GRID 1/(A-F) (9"X2'0")

NOTE:-

1. FOR FOUNDATION DETAILS REFER DRG NO. 11819 - S01 , S02 & S03.
2. FOR ROOF SLAB DETAILS REFER DRG NO : 11819 - S05.

PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
AT NO.1, KAMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

TYPICAL [FIRST , SECOND , THIRD & & FOURTH] FLOOR ROOF BEAM DETAILS - I..

Dwg No... 11819 S -08

DATE: 25 : 01 : 2024

SCALE:1/4"-3/4"

DSND : S.P.S.I

DRN : K.Raja

ARCHITECT:

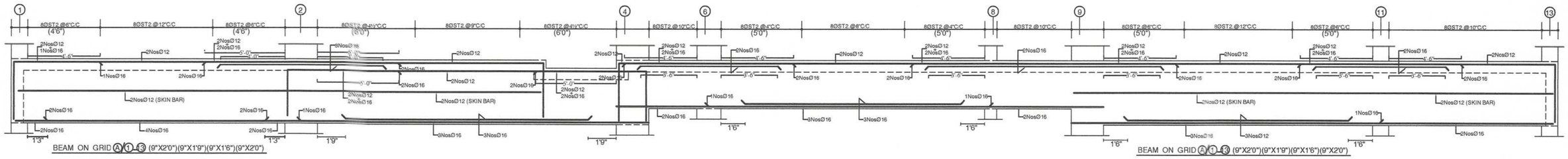
BOURNA
Consultants - Engineers

NO 50, Krupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2495 46 03

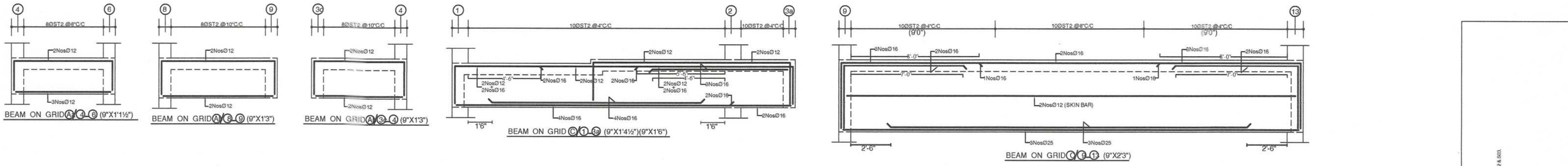
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

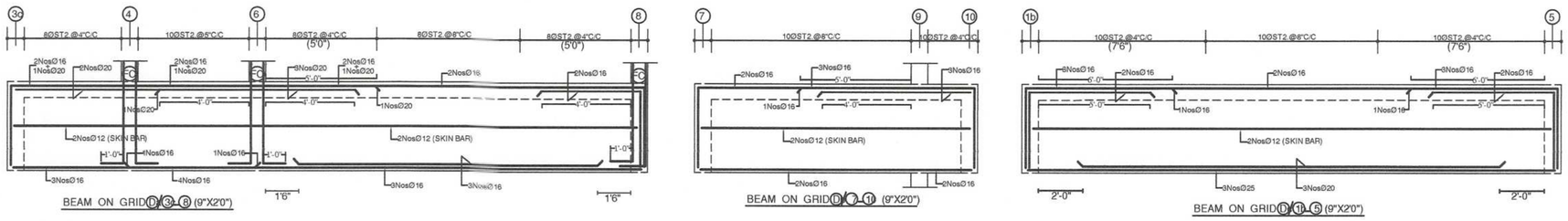
S. P. S. INBARAJAN, M.E., (Struct)A.M.I.E., Structural Consultant
Registered Structural Engineer Grade-I (SE) in CMDA
Reg.No SE(SR-1/2)/2004/ Door No.50, Krupasankari Street, West Mambalam, Chennai-600 033.

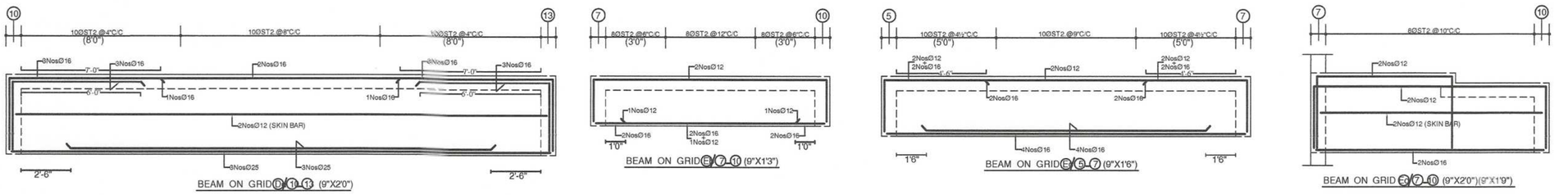
TYPICAL [FIRST , SECOND , THIRD & FOURTH] FLOOR ROOF BEAM DETAILS - I..

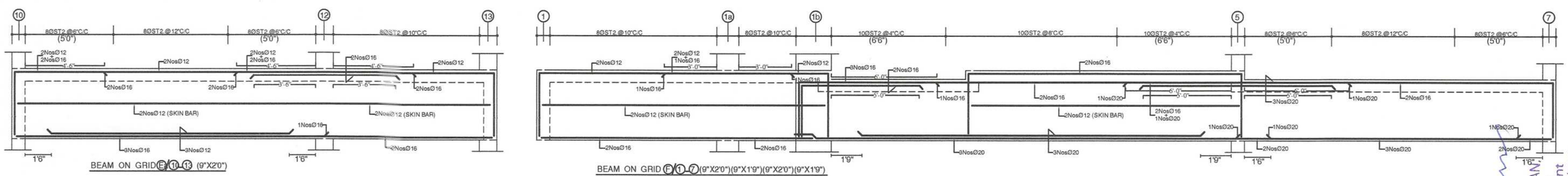


BEAM ON GRID Ⓐ①-⑬ (9"X2'0")(9"X1'9")(9"X1'6")(9"X2'0")









TYPICAL [FIRST , SECOND , THIRD & FOURTH] FLOOR ROOF BEAM DETAILS - II..

NOTE:—
1. FOR FOUNDATION DETAILS REFER DRG NO : 11819 - S01 , S02 & S03.
2. FOR ROOF SLAB DETAILS REFER DRG NO : 11819 - S05.

PROPOSED RESIDENTIAL BUILDING FOR M/S.NIRMAL PROJECTS
AT.KAMAKOTI NAGAR, PALLIKARANAI, CHENNAI.

TYPICAL [FIRST , SECOND , THIRD & FOURTH] FLOOR ROOF BEAM DETAILS - II..

Dwg No... 11819 S -09

DATE: 25 .01. 2024 | SCALE: 1/4"-3/4" | DSN/D : S.P.S.I | DRN : K.Raja

ARCHITECT:

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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

S P S INBARAJAN, M.E.,(Struct)A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade-I (SE) in CMDA
Regn No SE/GR-I/2024/02008 Dt. 27.02.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

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Ownership, Compliance & Legal Verification

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

Zoning & Land Use Analysis

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

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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