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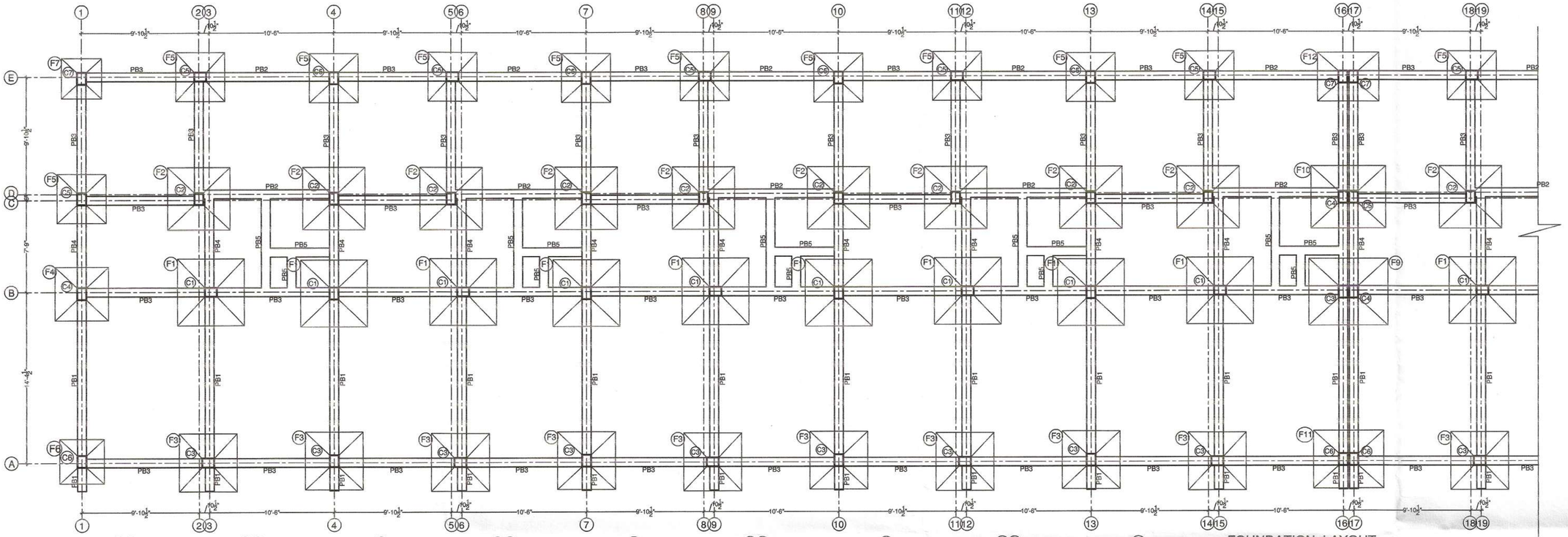
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996
www.verified.realestate

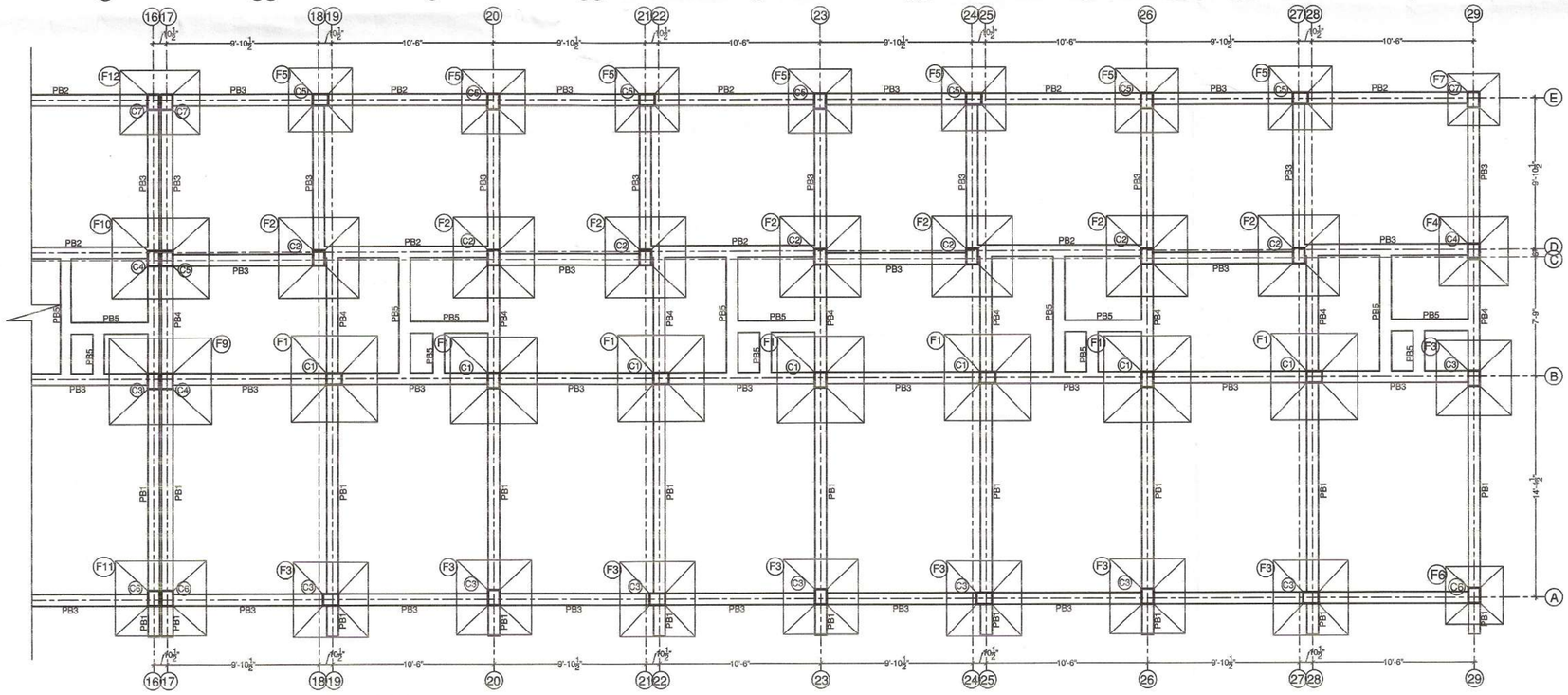
Official Property Record



Digitally Verified Record - Powered by Verified RealEstate™



FOUNDATION LAYOUT
BLOCK - 1



FOUNDATION LAYOUT BLOCK - 1

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 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.

IMPORTANT NOTE :-

1. ALL CENTER LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT.
2. FOR COLUMN WHICH ARE ADJACENT TO THE SUMP BASE SLAB , SEPTIC TANK BASE SLAB OR LIFT PIT BASE SLAB 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 OR TIE BEAM LEVEL, DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SEPTIC TANK/ SUMP BASE SLAB LEVEL.
3. IF THE HEIGHT OF THE COLUMN BETWEEN FIRST LEVEL PLINTH BEAM TOP LEVEL TO GROUND FLOOR SLAB TOP LEVEL EXCEED 12'3", THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL DETAILS FOR THE SAME LEVEL PLINTH BEAM SHALL BE OF SIZE (9"X9") (230mmX230mm) WITH 3Nos⌀12@BTM AND 3Nos⌀12@TOP AND 8⌀ST2.@8(200mm)C/C STIRRUPS.

S.P.S.INBARAJAN, M.E., A.M.I.E.
Structural Consultant
Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street,
West Mambalam Chennai - 600 033. Ph : 2485 46 03
Reg. No. : Structural Engineer / Structural Consultant
Grade-I Municipality / Town Panchayat / Township
Dc/Sr/Structural/Tirupati Engineer/LPA/2019/04/002 Dt 29.04.2019
Dc/Sr/Tirupasankari Street,
West Mambalam, Chennai-600 033.

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

1. THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF WE EXPOSE UP TO 3 FEET DEPTH, THE SOIL WILL EXPAND AND CONTRACT. 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 PROPERLY LEVELLED AND RAMMED AND THE SIDES ALSO COMPACTED THOROUGHLY. THE BOTTOM SHOULD BE LAYERED WITH 6" THICK GRAVELS AND COMPACT THE BOTTOM OF THE PIT. PROPERLY, AS A PRECAUTIONARY MEASURE, SPREAD BRICK BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT.
4. CONCRETE SHOULD BE PLACED IMMEDIATELY AFTER THE PIT IS BEING LEVELLED AND COMPACTED.

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF GRADE M20 MIX (1:1.5:3) FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND OF GRADE M25 FOR READY MIX CONCRETE. CONCRETE SHALL BE OF GRADE M25 FOR ALL TYPES OF FOOTINGS, COLUMNS, BEAMS, SLABS, ETC.
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), BEAM 1½"(40mm), SLAB ¾"(20mm), ROOF BEAM 1"(25mm), PILE CAP 2"(50mm) & PILE 2"(50mm).
4. LAP LENGTH SHALL BE OF 50 TIMES THE DIAMETER OF BAR FOR TENSION BARS AND 40 TIMES THE DIAMETER OF SMALLER BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR GROUND & FIRST FLOOR ONLY.

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE, CHENGALPET DISTRICT.

FOUNDATION DETAILS.

Dwg No.. 10649 S-01

DATE: 05 01 2022 | SCALE:1/4"=1'-0"

ARCHITECT:

BLOCK - 1
DSND : S.P.S.I
DRN : SENTHILR

BOURNA
Consultants - Engineers

REV	DESCRIPTION	CHKD	DRN	DATE
R2	DRAWING REVISED AS PER ARCHITECT NEW PLAN	S.P.S.I	SENTHILR	10.09.22
R1	DRAWING REVISED AS PER ARCHITECT NEW PLAN	S.P.S.I	SENTHILR	07.08.22

FOOTING SCHEDULE:

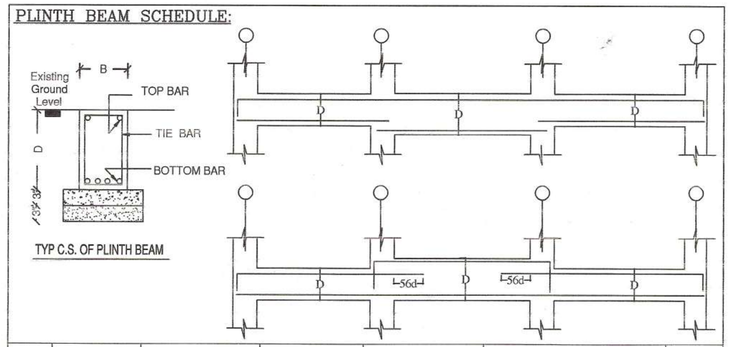
SL. No.	FOOTING MARK	FOOTING SIZE					FOOTING REINFORCEMENT		Nos Of FOOTING
		L	B	D	d	e	LONGER BAR	SHORTER BAR	
1.	F1	5'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	15NosØ10	
2.	F2	5'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	13NosØ10	
3.	F3	4'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	11NosØ10	
4.	F4	4'6"	4'6"	1'4½"	0'9"	0'7½"	10NosØ10	10NosØ10	
5.	F5	4'1½"	4'1½"	1'3"	0'9"	0'6"	9NosØ10	9NosØ10	
6.	F6	3'9"	3'9"	1'1½"	0'9"	0'4½"	8NosØ10	8NosØ10	
7.	F7	3'4½"	3'4½"	1'0"	0'9"	0'3"	7NosØ10	7NosØ10	
8.	F8 Eccentric	6'3"	3'6"	1'7½"	0'9"	0'10½"	7NosØ10	13NosØ10	
9.	F9	6'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	18NosØ10	
10.	F10	6'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	16NosØ10	
11.	F11	5'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	144NosØ10	
12.	F12	5'1½"	4'1½"	1'3"	0'9"	0'6"	9NosØ10	12NosØ10	

COLUMN DETAILS

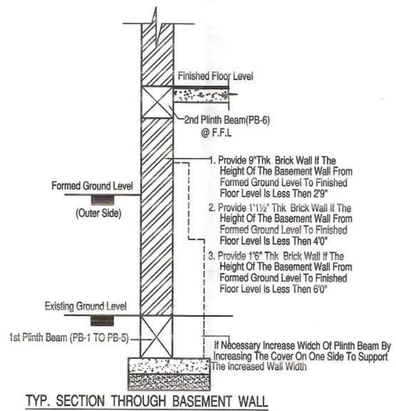
G.F.= GROUND FLOOR. F.F.= FIRST FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	C1	G.F. = (9"X1'0")	4NosØ16+ 4NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
2.	C2	G.F. = (9"X1'0")	8NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
3.	C3	G.F. = (9"X1'0")	8NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
4.	C4	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
5.	C5	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
6.	C6	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
7.	C7	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		
8.	C8	G.F. = (9"X1'0")	8NosØ12	8Ø@8"C/C	4'-0" (G.F) 4'-0" (F.F)
		F.F. = (9"X1'0")	6NosØ12		

PLINTH BEAM SCHEDULE:

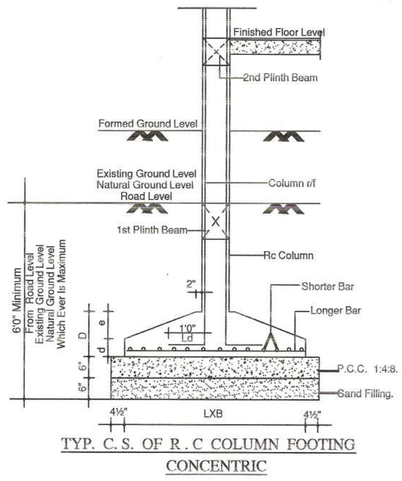


SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(9"X1'3")	2NosØ16	3NosØ16 1NosØ12	8ØST2.@8"C/C	Existing Ground Level
2.	PB2	(9"X1'3")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
3.	PB3	(9"X1'0")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
4.	PB4	(9"X1'0")	2NosØ12	3NosØ12	8ØST2.@10"C/C	
5.	PB5	(9"X1'0")	2NosØ12	2NosØ12	8ØST2.@10"C/C	
6.	PB6	(9"X9")	3NosØ12	3NosØ12	8ØST2.@8"C/C	Finished Floor Level

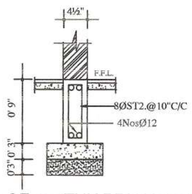


TYP. SECTION THROUGH BASEMENT WALL
(OUTER WALL)

TYP. SECTION THROUGH BASEMENT WALL
(INNER WALL)



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



C.S. OF 4½"THK BRICK WALL FOUNDATION DETAILS

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 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 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.

S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade-I (SE) with Mamallapuram LPA DTCP
Reg. No. SE/Gr-I/19/04/002 Dt 29-04-2019
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE, CHENGALPET DISTRICT.

FOUNDATION DETAILS.

Dwg No.. 10649 S -02

BLOCK - 1

DSND : S.P.S.I

DRN : SENTHIL.R

DATE: 05 :01: 2022

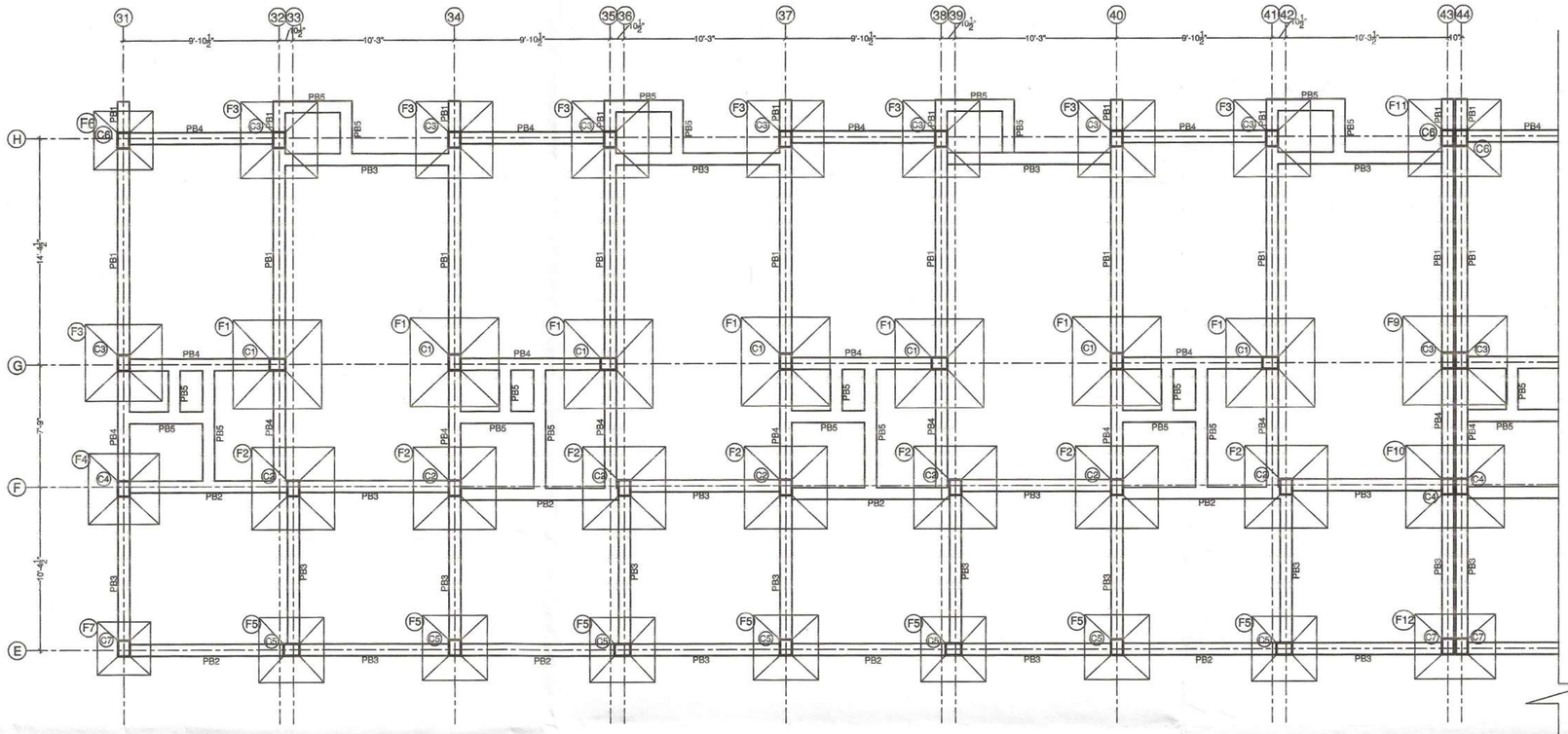
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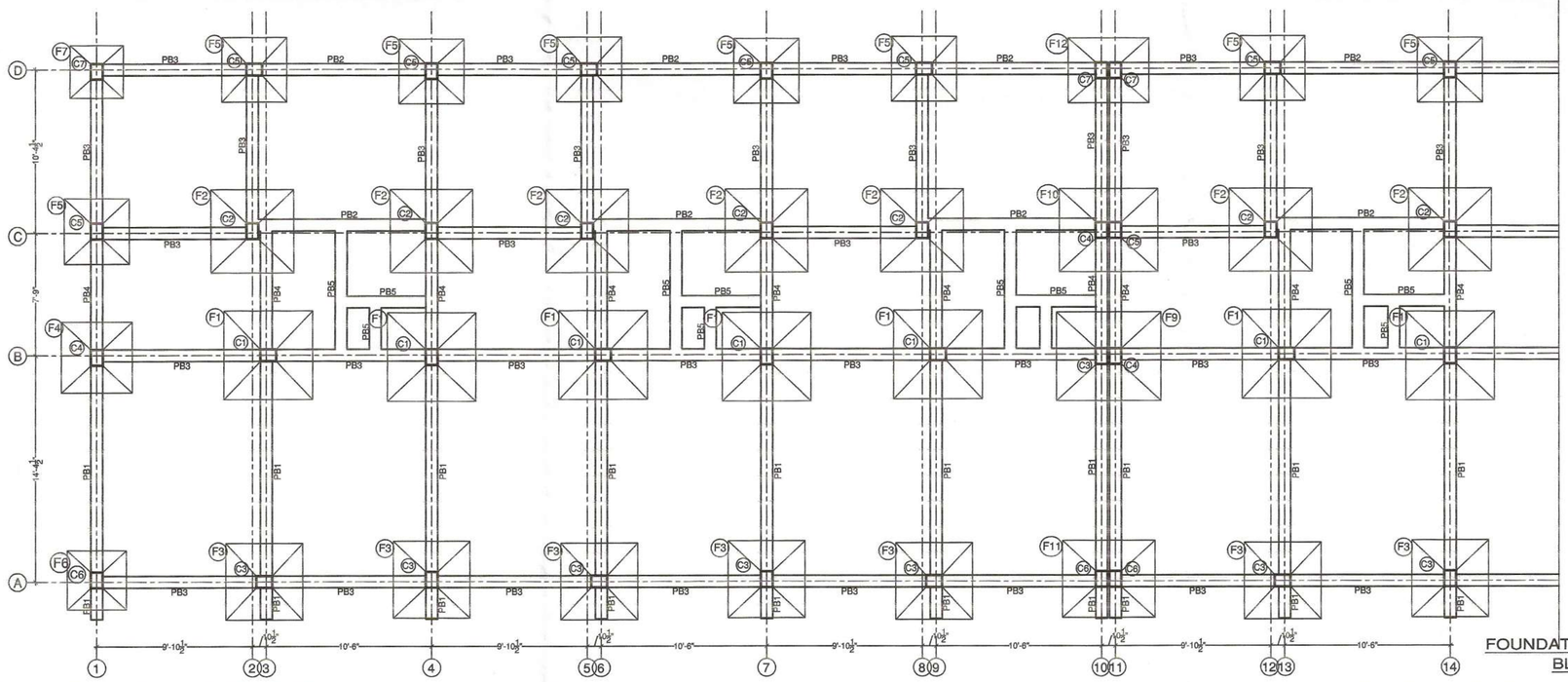
ARCHITECT:

Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2465 46 03

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

BOURNA
Consultants - Engineers





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 SAME LEVEL PLINTH BEAM SHALL BE OF SIZE (9"X9") (230mmX230mm) WITH 3Nos⌀12@TOP AND 3Nos⌀12@BTM AND 8⌀ST2.@8(200mm)C/C STIRRUPS.

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.
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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.
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S. P. S. INBARAJAN
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Structural Consultant
Registered Structural Engineer
Reg. No. SE/G-II/19/04/002 Dt 29-04-2019
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

FOUNDATION LAYOUT
BLOCK - 2

REV	DESCRIPTION	CHKD	DRN	DATE
R2	DRAWING REVISED ASPER ARCHITECT NEW PLAN	S.P.S.I	SENTHILR	10.09.22
R1	DRAWING REVISED ASPER ARCHITECT NEW PLAN	S.P.S.I	SENTHILR	07.08.22

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 EXURT 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 AS A PRECAUTIONARY MEASURE. SPREAD BRICK-BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT. THEN CONCRETE SHOULD BE PLACED. BE PLACED OVER THIS PREPARED SURFACE.

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE.
2. 6⌀ BARS ARE MILDSTEEL REMAINING ALL OTHERS BARS ARE TOR STEEL CONFORMING TO GRADE Fe500.
3. CLEAR COVER TO MAIN R/F SHALL BE AS FOLLOWS:- FOOTING 2"(50mm), RC WALL 1"(25mm), ROOF SLAB .5⌀" (15mm), ROOF BEAM 1"(25mm), PILE CAP 2"(50mm) & PILE 2"(50mm).
4. LAP LENGTH SHALL BE 60 TIMES THE DIAMETER OF TOR STEEL BAR & 50 TIMES THE DIAMETER OF MILD STEEL BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR GROUND & FIRST FLOOR ONLY.

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE , CHENGALPET DISTRICT.

FOUNDATION DETAILS.

Dwg No.. 10649 S -03

DATE: 06 .01. 2022 | SCALE:1/4"-1'-0"

ARCHITECT:

BLOCK - 2

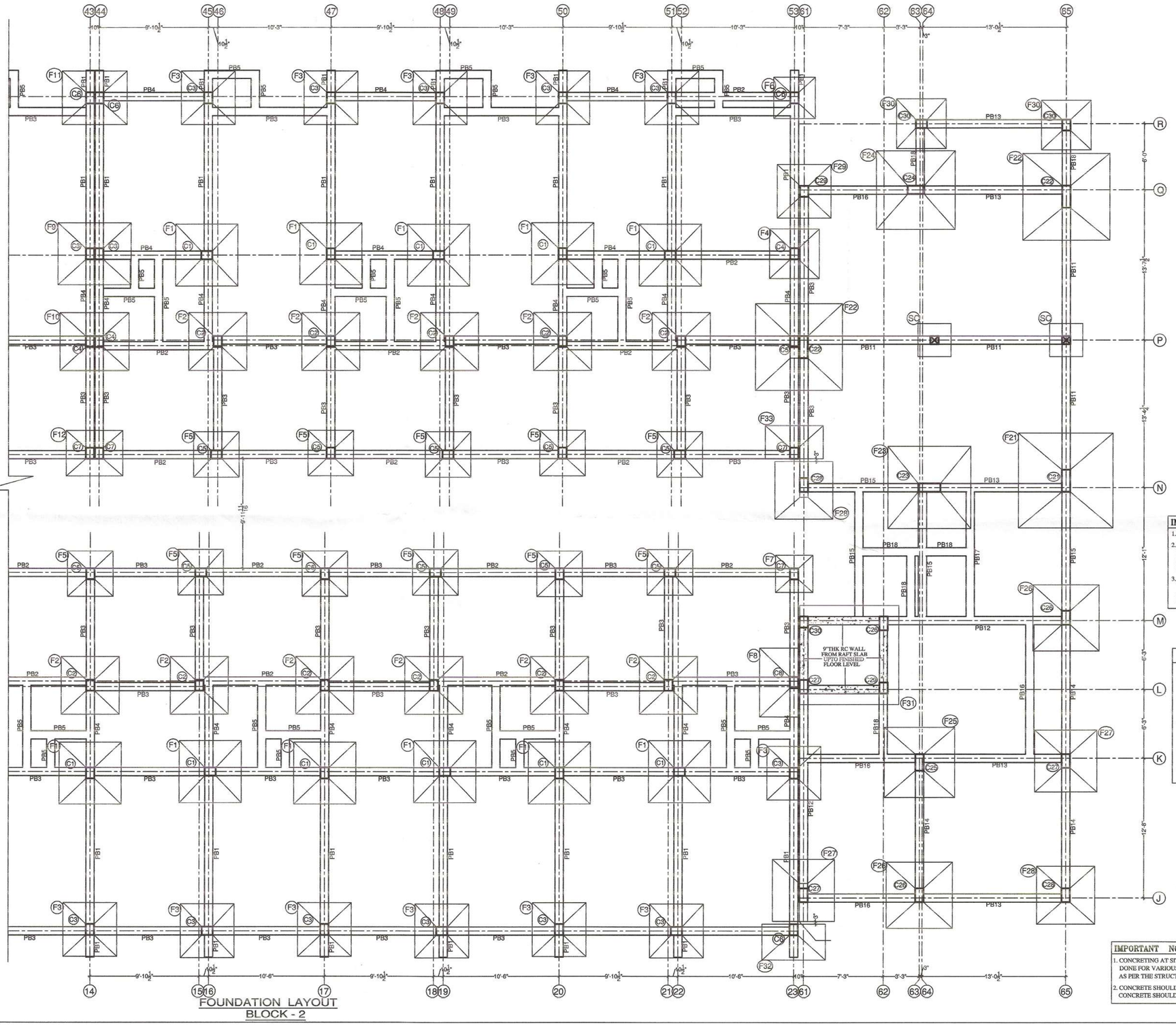
DSN'D : S.P.S.I

DRN : SENTHIL.R

Flat No : G2, Door No : 3 Ramakrishnapuram, III rd 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 LAYOUT
BLOCK - 2

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 3Nos⌀12@TOP AND 3Nos⌀12@BTM AND 8⌀3ST2.@8(200mm)C/C STIRRUPS.

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 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 WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR PALM AND TAP 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 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.

S. INBARAJAN
M.E. (Structural) A.M.I.E.
Structural Consultant
Registered Structural Engineer Grade-I (SE) with Mamallapuram LPA 0039
Reg. No. SE/G-I/19/04/002 Dt 29-04-2019
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

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

1. THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF THE TOP SOILS OF MEDIUM SWELLING TYPE, THEN , IT IS SUGGESTED TO REMOVE THE TOP SOIL 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 SOIL SHOULD BE WATERED AND ALLOWED TO DRY AND COMPACTED PROPERLY. AS A PRECAUTIONARY MEASURE, SPREAD BRICK BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT. THE FOUNDATION CAN BE SUBSEQUENTLY LAID OVER THIS PREPARED BASE.

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF GRADE M25 MIX USED FOR CONCRETE REACHING 25N/sq.mm. AND ALL CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE.
2. GRADE SLUMP FOR THE CONCRETE SHALL BE 12cm (OR BELOW) FOR HAND MIX CONCRETE AND 15cm (OR BELOW) FOR READY MIX CONCRETE.
3. CLEAR COVER TO MAIN R/F SHALL BE AS FOLLOWS:- COLUMN FOOTING 2"(50mm), COLUMN 1½"(40mm), BEAM 1"(25mm) & SLAB ½"(15mm), ROOF BEAM 1"(25mm), TILE C/P 2"(50mm).
4. LAP LENGTH SHALL BE OF 50 TIMES THE DIAMETER OF SMALLER BAR IN COMPRESSION AND TENSION.
5. FOUNDATION IS DESIGNED FOR GROUND & FIRST FLOOR ONLY.

REV	DESCRIPTION	CHKD	DRN	DATE
R2	DRAWING REVISED AS PER ARCHITECT NEW PLAN	S.P.S.I	SENTHIL.R	10.09.22
R1	DRAWING REVISED AS PER ARCHITECT NEW PLAN	S.P.S.I	SENTHIL.R	07.08.22

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE, CHENGALPET DISTRICT.

FOUNDATION DETAILS.

Dwg No.. 10649 S -04

DATE: 05 .01. 2022 | SCALE:1/4" 24"

ARCHITECT:

BLOCK - 2

DSND : S.P.S.I

DRN : SENTHIL.R

BOURNA
Consultants - Engineers

Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2489 46 03

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

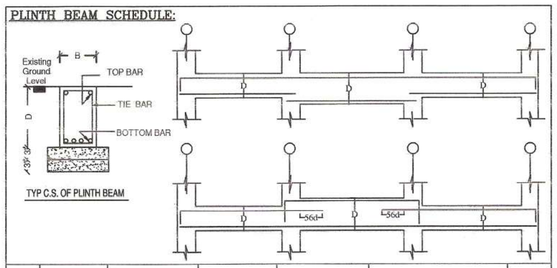
FOOTING SCHEDULE:

SL. No.	FOOTING MARK	FOOTING SIZE					FOOTING REINFORCEMENT		Nos Of FOOTING
		L	B	D	d	e	LONGER BAR	SHORTER BAR	
1.	F1	5'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	15NosØ10	
2.	F2	5'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	13NosØ10	
3.	F3	4'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	11NosØ10	
4.	F4	4'6"	4'6"	1'4½"	0'9"	0'7½"	10NosØ10	10NosØ10	
5.	F5	4'1½"	4'1½"	1'3"	0'9"	0'6"	9NosØ10	9NosØ10	
6.	F6	3'9"	3'9"	1'1½"	0'9"	0'4½"	8NosØ10	8NosØ10	
7.	F7	3'4½"	3'4½"	1'0"	0'9"	0'3"	7NosØ10	7NosØ10	
8.	F8 Eccentric	6'3"	3'6"	1'7½"	0'9"	0'10½"	7NosØ10	13NosØ10	
9.	F9	6'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	18NosØ10	
10.	F10	6'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	16NosØ10	
11.	F11	5'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	144NosØ10	
12.	F12	5'1½"	4'1½"	1'3"	0'9"	0'6"	9NosØ10	12NosØ10	

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

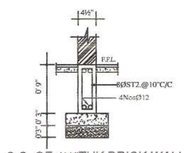
SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	C1	G.F.= (9"X10")	4NosØ16+ 4NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
2.	C2	G.F.= (9"X10")	8NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
3.	C3	G.F.= (9"X10")	8NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
4.	C4	G.F.= (9"X10")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
5.	C5	G.F.= (9"X10")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
6.	C6	G.F.= (9"X10")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
7.	C7	G.F.= (9"X10")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		
8.	C8	G.F.= (9"X10")	8NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F.= (9"X10")	6NosØ12		

PLINTH BEAM SCHEDULE:

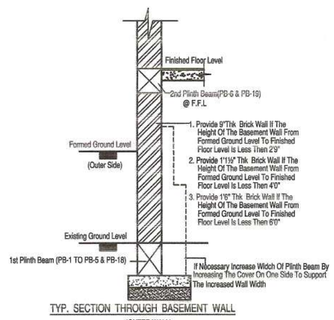


SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(9"X13")	2NosØ16	3NosØ16 1NosØ12	8ØST2.@8"C/C	Existing Ground Level
2.	PB2	(9"X13")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
3.	PB3	(9"X10")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
4.	PB4	(9"X10")	2NosØ12	3NosØ12	8ØST2.@10"C/C	
5.	PB5	(9"X10")	2NosØ12	2NosØ12	8ØST2.@10"C/C	
6.	PB6	(9"X9")	3NosØ12	3NosØ12	8ØST2.@8"C/C	Finished Floor Level

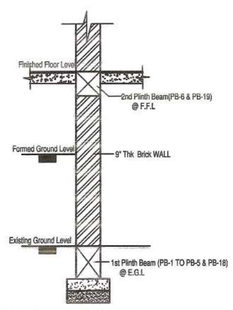
TYP. C. S. OF R.C COLUMN FOOTING
CONCENTRIC



C.S. OF 4½"THK BRICK WALL
FOUNDATION DETAILS

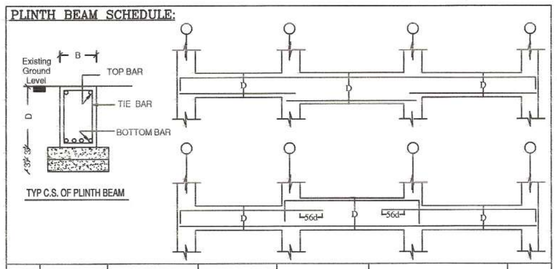


TYP. SECTION THROUGH BASEMENT WALL
(OUTER WALL)



TYP. SECTION THROUGH BASEMENT WALL
(INNER WALL)

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.	PB11	(9"X16")	3NosØ16	4NosØ16	8ØST2.@8"C/C	Existing Ground Level
2.	PB12	(9"X16")	2NosØ16	3NosØ16 3NosØ12	8ØST2.@6"C/C(End 1/3rd Span) 8ØST2.@12"C/C(Mid 1/3rd Span) 8ØST2.@6"C/C(End 1/3rd Span)	
3.	PB13	(9"X13")	2NosØ16	3NosØ16	8ØST2.@8"C/C	
4.	PB14	(9"X13")	2NosØ12	2NosØ16 1NosØ12	8ØST2.@8"C/C	
5.	PB15	(9"X13")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
6.	PB16	(9"X10")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
7.	PB17	(9"X10")	2NosØ12	3NosØ12	8ØST2.@10"C/C	
8.	PB18	(9"X10")	2NosØ12	2NosØ12	8ØST2.@10"C/C	
9.	PB19	(9"X9")	3NosØ12	3NosØ12	8ØST2.@8"C/C	Finished Floor Level

FOOTING SCHEDULE:

SL. No.	FOOTING MARK	FOOTING SIZE					FOOTING REINFORCEMENT		Nos Of FOOTING
		L	B	D	d	e	LONGER BAR	SHORTER BAR	
1.	F21	8'7½"	8'7½"	2'9"	0'9"	2'0"	25NosØ12	25NosØ12	
2.	F22	7'10½"	7'10½"	2'6"	0'9"	1'9"	21NosØ12	21NosØ12	
3.	F23	7'6"	7'6"	2'4½"	0'9"	1'7½"	19NosØ12	19NosØ12	
4.	F24	7'1½"	7'1½"	2'3"	0'9"	1'6"	17NosØ12	17NosØ12	
5.	F25	6'4½"	6'4½"	2'0"	0'9"	1'3"	19NosØ10	19NosØ10	
6.	F26	6'0"	6'0"	1'10½"	0'9"	1'1½"	17NosØ10	17NosØ10	
7.	F27	5'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	15NosØ10	
8.	F28	5'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	13NosØ10	
9.	F29	4'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	11NosØ10	
10.	F30	4'6"	4'6"	1'4½"	0'9"	0'7½"	10NosØ10	10NosØ10	
11.	F31 (LIFT)	9'0"	9'0"	1'0"	-	-	8Ø@4½"C/C BOTHWAYS @TOP&BOTTOM		
12.	F32 Eccentric	5'9"	3'3"	1'6"	0'9"	0'9"	6NosØ10	11NosØ10	
13.	F33 Eccentric	5'3"	3'0"	1'4½"	0'9"	0'7½"	5NosØ10	9NosØ10	
14.	SC	3'0"	3'0"	0'9"	-	-	5NosØ8	5NosØ8	

COLUMN DETAILS — G.F.= GROUND FLOOR. F.F.= FIRST FLOOR. S.F.= SECOND FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	C21	G.F.= (9"X20")	14NosØ20	2Nos Set 8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X20")	12NosØ16		
		S.F.= (9"X20")	10NosØ12	8Ø@8"C/C	
2.	C22	G.F.= (9"X20")	10NosØ20	2Nos Set 8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X20")	10NosØ16	8Ø@8"C/C	
		S.F.= (9"X20")	10NosØ12		
3.	C23	G.F.= (9"X20")	12NosØ16	2Nos Set 8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X20")	10NosØ12	8Ø@8"C/C	
		S.F.= (9"X20")	10NosØ12		
4.	C24	G.F.= (9"X16")	8NosØ16	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X16")	8NosØ12		
		S.F.= (9"X10")	6NosØ12		
5.	C25	G.F.= (9"X16")	8NosØ16	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X16")	8NosØ12		
		S.F.= (9"X10")	6NosØ12		
6.	C26	G.F.= (9"X13")	8NosØ16	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X13")	8NosØ12		
		S.F.= (9"X10")	6NosØ12		
7.	C27	G.F.= (9"X13")	4NosØ16+ 4NosØ12	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X13")	8NosØ12		
		S.F.= (9"X10")	6NosØ12		
8.	C28	G.F.= (9"X13")	8NosØ12	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X13")	8NosØ12		
		S.F.= (9"X10")	6NosØ12		
9.	C29	G.F.= (9"X10")	4NosØ16+ 4NosØ12	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X10")	8NosØ12		
		S.F.= (9"X10")	6NosØ12		
10.	C30	G.F.= (9"X10")	8NosØ12	8Ø@8"C/C	(G.F) (F.F) (S.F)
		F.F.= (9"X10")	6NosØ12		
		S.F.= (9"X10")	6NosØ12		

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S.P.S. INBARAJAN, M.E., A.M.I.E., (Structural) A.M.I.E.,
Structural Consultant, Registered Structural Engineer
Grade-I (SE) with Mamallapuram LPA DTCP
Reg. No. SE/Gr-I/19/04/2022 Dt: 29-04-2019
Door No. 50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

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Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2485 46 03

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

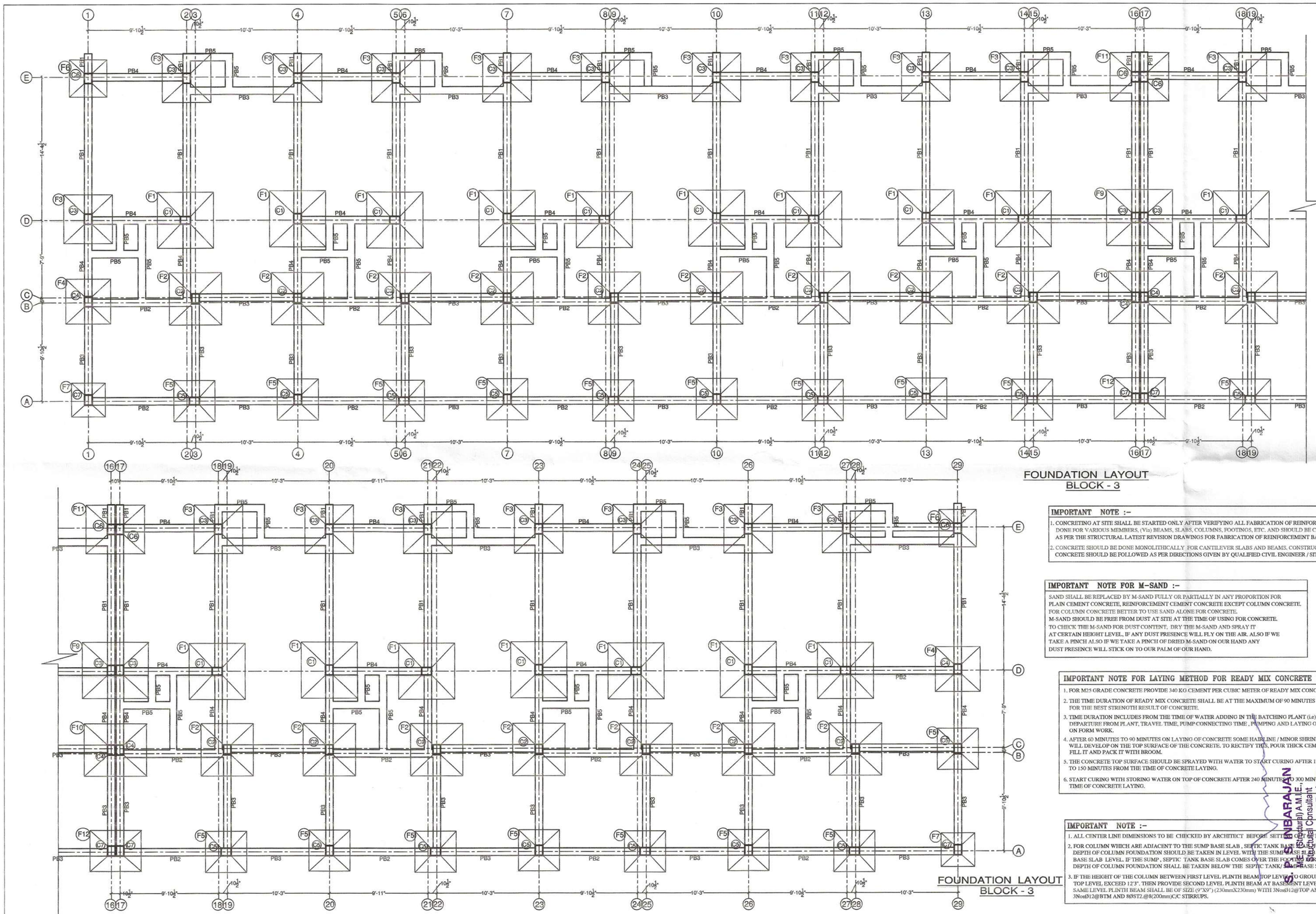
FOUNDATION DETAILS.

DATE: 05 .01. 2022 | SCALE:1/4"-1'-0" | ARCHITECT:

Dwg No.- 10649 S -05

BLOCK - 2 | DSN/D : S.P.S.I | DRN : SENTHILR

BOURNA
Consultants - Engineers



FOUNDATION LAYOUT
BLOCK - 3

FOUNDATION LAYOUT
BLOCK - 3

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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. ALL CENTER LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT.
2. FOR COLUMN WHICH ARE ADJACENT TO THE SUMP BASE SLAB , SEPTIC TANK BASE SLAB, THE BOTTOM 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, THE BOTTOM DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SEPTIC TANK/ SUMP BASE SLAB LEVEL.
3. IF THE HEIGHT OF THE COLUMN BETWEEN FIRST LEVEL PLINTH BEAM TOP LEVEL TO GROUND FLOOR SLAB TOP LEVEL EXCEED 12'3", THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL. DETAILS OF THE SAME LEVEL PLINTH BEAM SHALL BE OF SIZE (9"X9") (230mmX230mm) WITH 3Nos⌀12@TOP AND 3Nos⌀12@BTM AND 8⌀ST2.@8(200mm)C/C STIRRUPS.

S.P.S.INBARAJAN
Graduate Structural Engineer (Structural) A.M.I.E.,
Registered Structural Engineer and Govt. Approved Consultant
Regd. No. SE/G-I/S/04/002 Dt 28-04-2015
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) FOR CONVENTIONAL MIXER MACHINE CONCRETE AND FOR READY MIX CONCRETE (RMC) GRADE OF CONCRETE (3/4INCH CEMENT FOR Chair OF READY MIX CONCRETE WITH DOUBLE WASHED SAND)
2. 6⌀ BARS ARE MILDSTEEL REMAINING ALL OTHERS BARS ARE TOR STEEL CONFORMING TO GRADE Fe500.
3. CLEAR COVER TO MAIN ⌀S SHALL BE AS FOLLOWS:
   RC WALL : 1725mm, ROOF SLAB :5⌀(115mm).
   ROOF BEAM : 1725mm / PILE C.P. : 2150mm & PILE : 2"(50mm).
4. ALL STIRRUPS SHALL BE ANCHORED TO DIAMETER OF SMALLER BAR IN COMPRESSION AND 60 TIMES THE DIAMETER OF SMALLER BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR GROUND & FIRST FLOOR ONLY

REV	DESCRIPTION	CHKD	DRN	DATE
R2	DRAWING REVISED AS PER ARCHITECT NEW PLAN	S.P.S.I	SENTHIL.R	10.09.22
R1	DRAWING REVISED AS PER ARCHITECT NEW PLAN	S.P.S.I	SENTHIL.R	07.08.22

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE , CHENGALPET DISTRICT.

FOUNDATION DETAILS.

Dwg No... 10649 S -06

DATE: 05 .01. 2022

SCALE:1/4"-1'-0"

BLOCK - 3

DSND : S.P.S.I

DRN : SENTHIL.R

ARCHITECT:

BOURNA
Consultants - Engineers

Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2485 46 03

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

FOOTING SCHEDULE:

SL. No.	FOOTING MARK	FOOTING SIZE					FOOTING REINFORCEMENT		Nos Of FOOTING
		L	B	D	d	e	LONGER BAR	SHORTER BAR	
1.	F1	5'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	15NosØ10	
2.	F2	5'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	13NosØ10	
3.	F3	4'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	11NosØ10	
4.	F4	4'6"	4'6"	1'4½"	0'9"	0'7½"	10NosØ10	10NosØ10	
5.	F5	4'1½"	4'1½"	1'3"	0'9"	0'6"	9NosØ10	9NosØ10	
6.	F6	3'9"	3'9"	1'1½"	0'9"	0'4½"	8NosØ10	8NosØ10	
7.	F7	3'4½"	3'4½"	1'0"	0'9"	0'3"	7NosØ10	7NosØ10	
8.	F8 Eccentric	6'3"	3'6"	1'7½"	0'9"	0'10½"	7NosØ10	13NosØ10	
9.	F9	6'7½"	5'7½"	1'9"	0'9"	1'0"	15NosØ10	18NosØ10	
10.	F10	6'3"	5'3"	1'7½"	0'9"	0'10½"	13NosØ10	16NosØ10	
11.	F11	5'10½"	4'10½"	1'6"	0'9"	0'9"	11NosØ10	144NosØ10	
12.	F12	5'1½"	4'1½"	1'3"	0'9"	0'6"	9NosØ10	12NosØ10	

COLUMN DETAILS

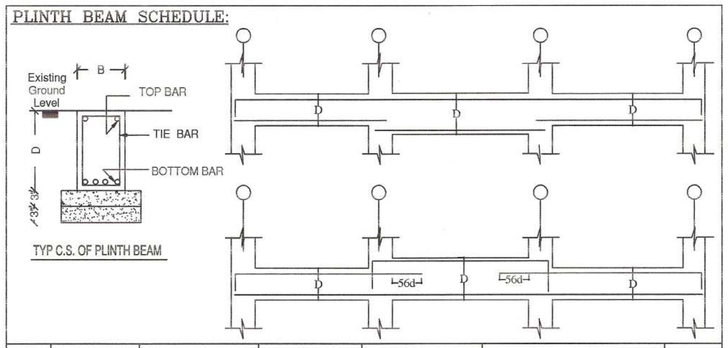
G.F.= GROUND FLOOR. F.F.= FIRST FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	C1	G.F. = (9"X1'0")	4NosØ16+ 4NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
2.	C2	G.F. = (9"X1'0")	8NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
3.	C3	G.F. = (9"X1'0")	8NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
4.	C4	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
5.	C5	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
6.	C6	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
7.	C7	G.F. = (9"X1'0")	6NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		
8.	C8	G.F. = (9"X1'0")	8NosØ12	8Ø@8"C/C	(G.F) (F.F)
		F.F. = (9"X1'0")	6NosØ12		

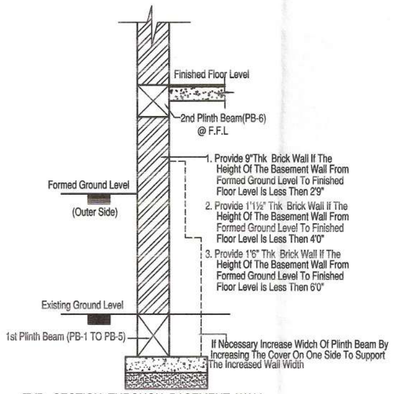
IMPORTANT NOTE FOR M-SAND :-

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.

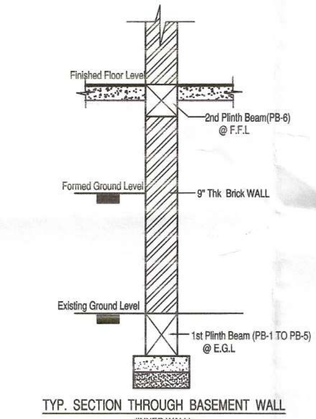
PLINTH BEAM SCHEDULE:



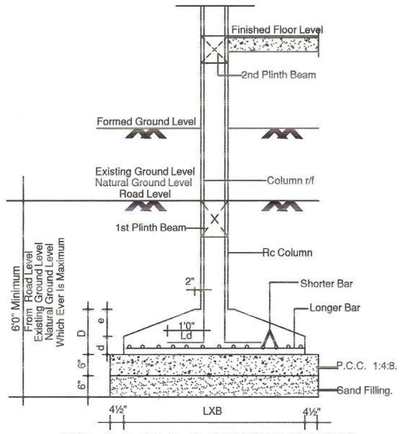
SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(9"X1'3")	2NosØ16	3NosØ16 + 1NosØ12	8ØST2.@8"C/C	Existing Ground Level
2.	PB2	(9"X1'3")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
3.	PB3	(9"X1'0")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
4.	PB4	(9"X1'0")	2NosØ12	3NosØ12	8ØST2.@10"C/C	
5.	PB5	(9"X1'0")	2NosØ12	2NosØ12	8ØST2.@10"C/C	
6.	PB6	(9"X9")	3NosØ12	3NosØ12	8ØST2.@8"C/C	Finished Floor Level



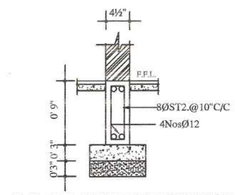
TYP. SECTION THROUGH BASEMENT WALL
(OUTER WALL)



TYP. SECTION THROUGH BASEMENT WALL
(INNER WALL)



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



C.S. OF 4½"THK BRICK WALL
FOUNDATION DETAILS

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.
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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.

S. P. S. INBARAJAN
M.E. (Structural) A.M.I.E.,
Structural Consultant
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Grade-I (SE) with Mamallapuram LPA DTCP
Reg. No. SE(Gr-I/19/04/002 Dt 29-04-2019
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE, CHENGALPET DISTRICT.

FOUNDATION DETAILS.

DATE: 05 :01: 2022 | SCALE:1/4"-3/4"

ARCHITECT:

BOURNA
Consultants - Engineers

Dwg No... 10649 S -07

BLOCK - 3

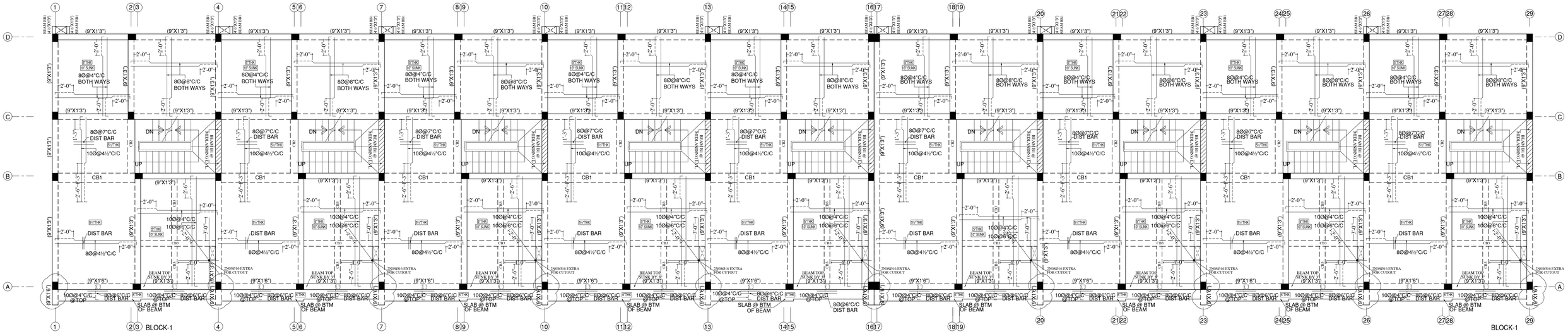
DSND : S.P.S.I

DRN : SENTHILR

Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2465 46 03

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

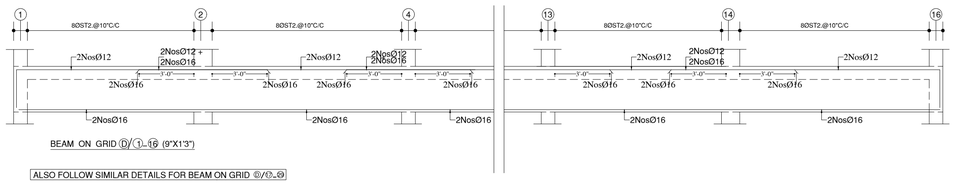
BLOCK-1



GROUND FLOOR ROOF SLAB LAYOUT

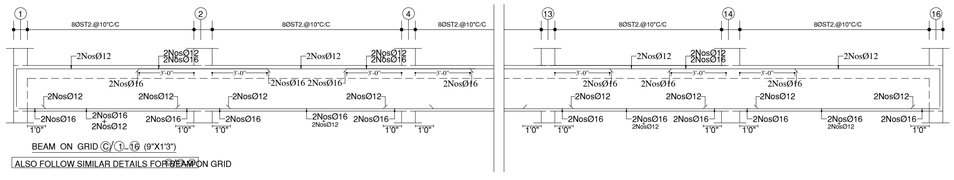
BLOCK-1

GROUND FLOOR ROOF SLAB LAYOUT



BEAM ON GRID Ⓓ/①-⑯ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID Ⓓ/①-⑨



BEAM ON GRID Ⓒ/①-⑯ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID



BEAM ON GRID Ⓑ/③-④ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

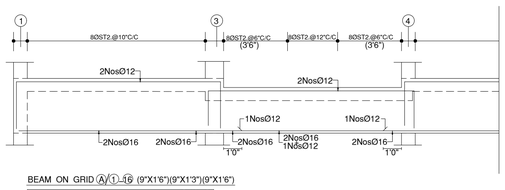
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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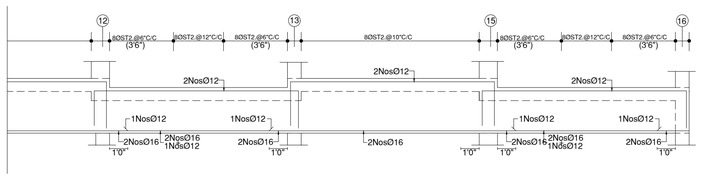
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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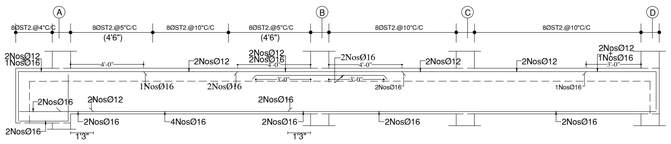
BEAM ON GRID Ⓐ/①-⑯ (9"X16")(9"X13")(9"X16")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID



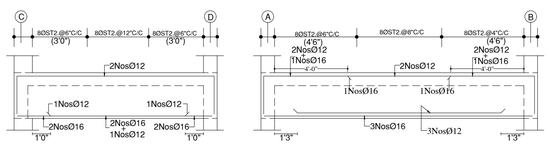
BEAM ON GRID Ⓖ/①-⑯ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID



BEAM ON GRID ①/Ⓐ-Ⓓ (9"X16")(9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID



BEAM ON GRID ②/Ⓒ-Ⓓ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

BEAM ON GRID ③/Ⓐ-Ⓑ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

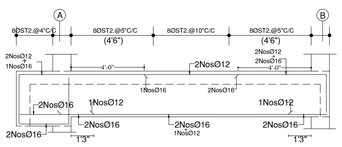
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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BEAM ON GRID ④/Ⓐ-Ⓑ (9"X16")(9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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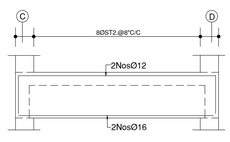
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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BEAM ON GRID ④/Ⓒ-Ⓓ (9"X13")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID

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PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE , CHENGALPET DISTRICT.

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

BLOCK - 1
GROUND FLOOR ROOF
SLAB & BEAM DETAILS

DATE: 02 :07: 2024 | SCALE:1/4",3/4"

ARCHITECT:

ANBU & FAIZAL

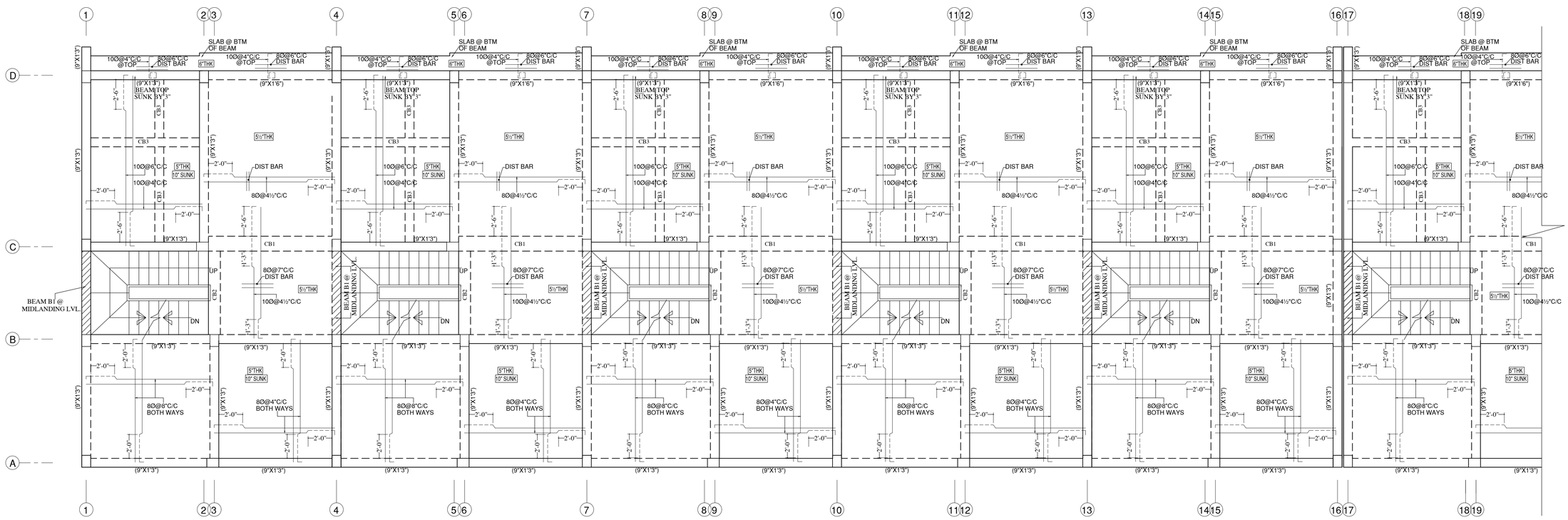
Dwg No...
10649
S -01

BLOCK - 1

DSND : S.P.S.I

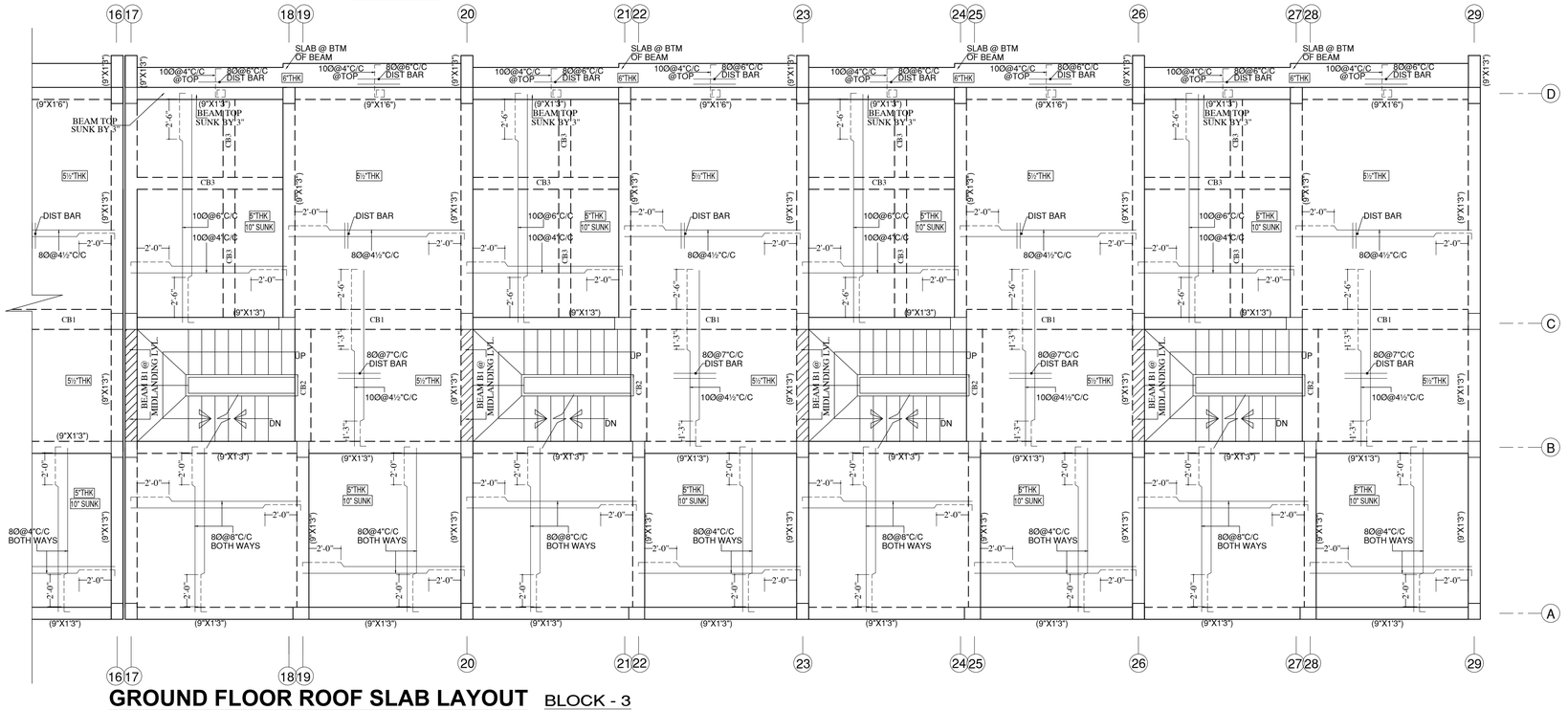
DRN : SENTHIL.R

S. P. S. INBARAJAN, M.E. (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/CR/1901/2019 dt. 27.02.2019
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE/102/2019 dt. 30.9.2019
Door No.50, Kirupasankari S
West Mambalam, Chenna



GROUND FLOOR ROOF SLAB LAYOUT

BLOCK - 3



GROUND FLOOR ROOF SLAB LAYOUT BLOCK - 3

S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg No. SE CR-119/01/2012 dt. 27.02.2019
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 100/01/2012 dt. 30.09.2019
Door No.10, Kanapathipuram 2nd
West Mambalam, Chennai-33

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.
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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.
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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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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 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.

REV	DESCRIPTION	CHKD	DRN	DATE
R2	ROOF SLAB REVISED AS PER ARCHITECT REQUEST	S.P.S.I	SUDHA	11.06.2024
R1	ROOF SLAB REVISED AS PER ARCHITECT REQUEST	S.P.S.I	SUDHA	16.05.2024

PROPOSED RESIDENTIAL BUILDING FOR M/S VGN @ PADUR VILLAGE , CHENGALPET DISTRICT.

GROUND FLOOR ROOF SLAB LAYOUT.

Dwg No.: 10649 S -31

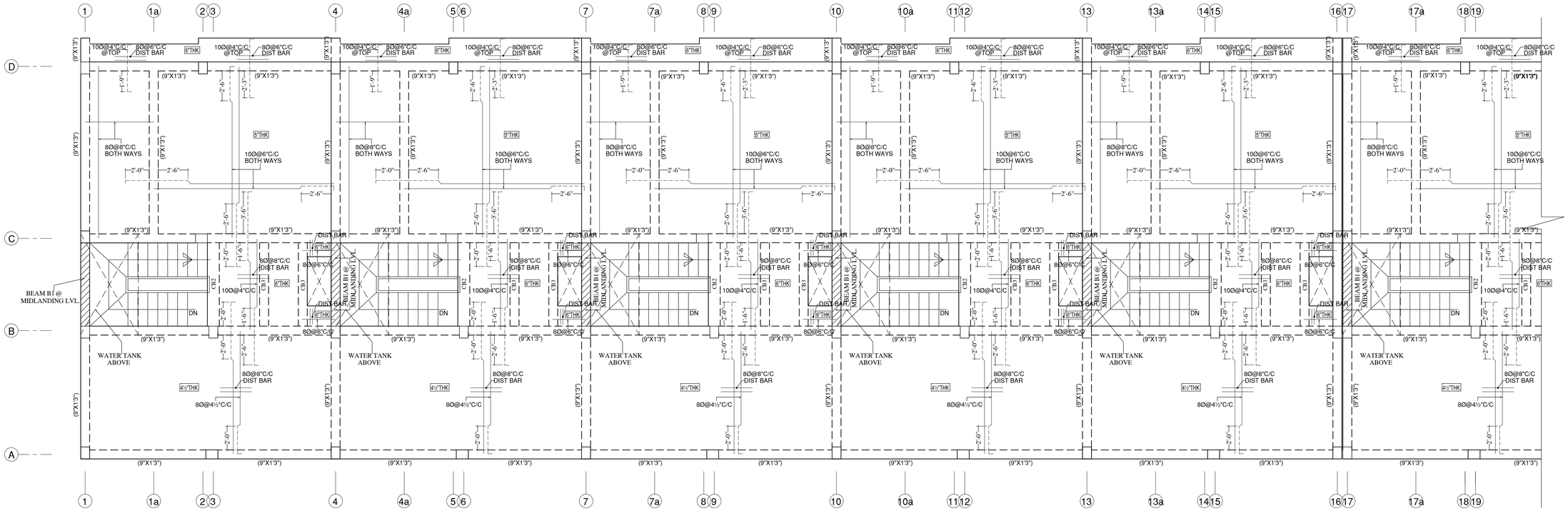
DATE: 05 .01. 2022 | SCALE:1/4"-3/4" | BLOCK - 3 | DSND : S.P.S.I | DRN : SENTHILR

ARCHITECT:

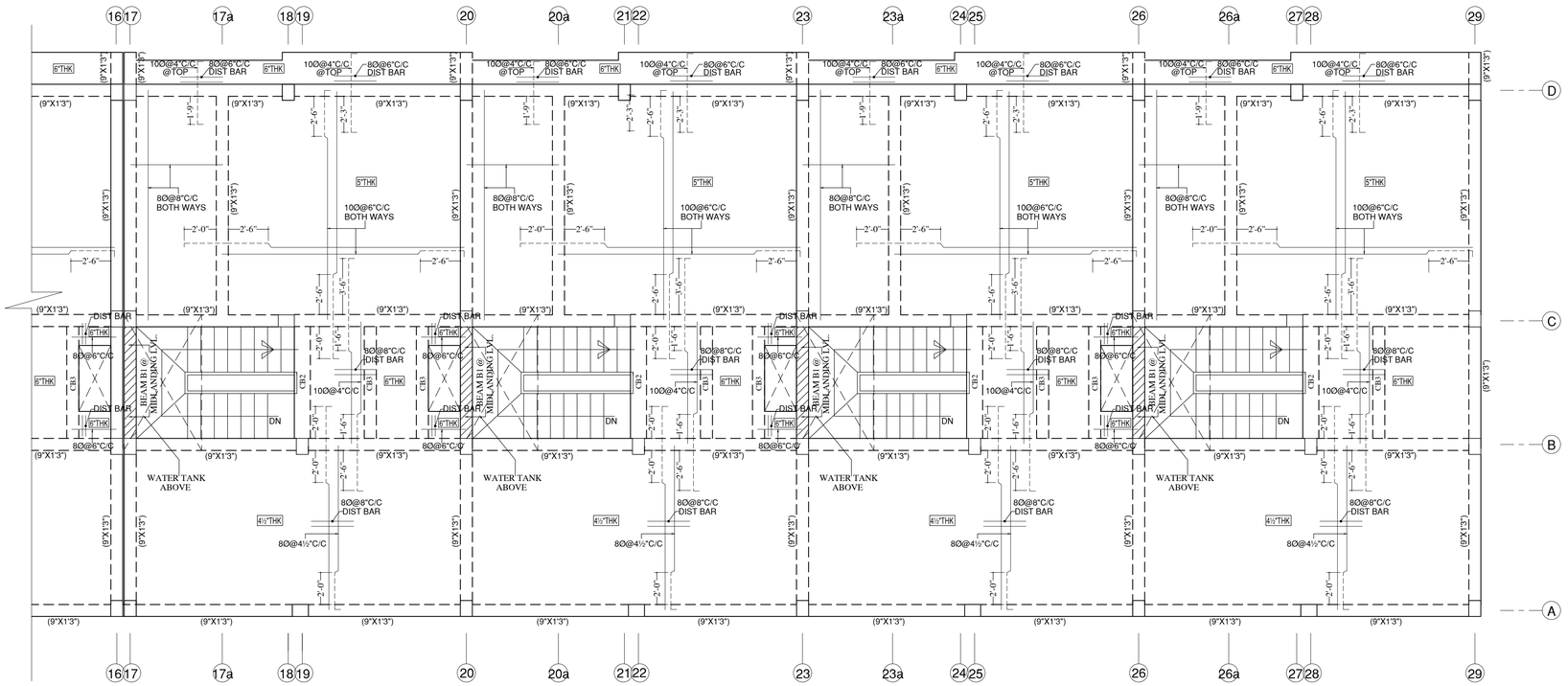
Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2485 46 03

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

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FIRST FLOOR ROOF SLAB LAYOUT BLOCK - 3



FIRST FLOOR ROOF SLAB LAYOUT BLOCK - 3

S. P. S. INBARAJAN, M.E. (Struct)
Registered Structural Engineer
Grade-I(SE) in CMDA
Reg. No SE.GR.I/19-01.009 dt. 27.02.2019
Grade-I(RSE) in Greater Chennai Corporation
Reg. No RSE.I/2020/2019 dt. 29.05.2019
Door No.10, Kanagasabhai Street,
West Mambalam, Chennai-33

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 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.

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FIRST FLOOR ROOF SLAB LAYOUT.

Dwg No... 10649 S -31

DATE: 05 .01. 2022 | SCALE:1/4"-3/4" | ARCHITECT:

BLOCK - 3
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Flat No : G2, Door No : 3 Ramakrishnapuram, III rd street, West Mambalam Chennai - 600 033. Ph : 2485 46 03
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Zoning & Land Use Analysis

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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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