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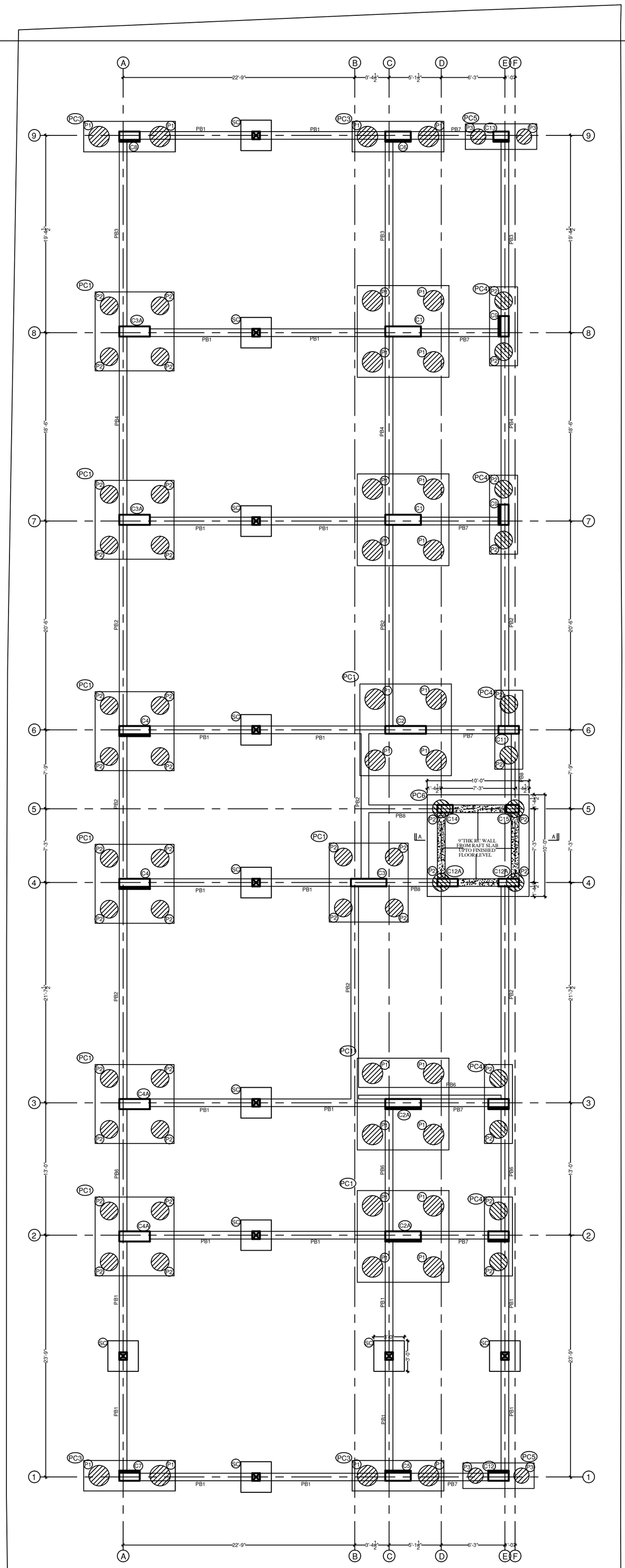
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

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+91 9996 12 9996

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FOUNDATION LAYOUT

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

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

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'-0" 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@BTM AND 8@8"T2.6@8"@200mmC/C STIRRUPS.

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, (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 INCHARGE ENGINEER.

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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
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FOUNDATION LAYOUT.

DATE : 07: 05 : 2024 | SCALE:1/4",3/4"

ARCHITECT:

Dwg No...
11508
S -01

DSND : S.P.S.I

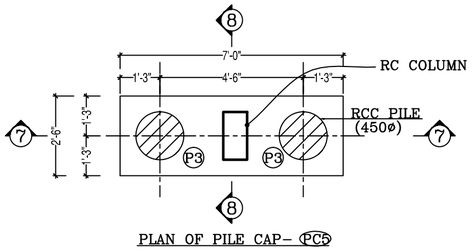
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CONCRETE NOTES:-

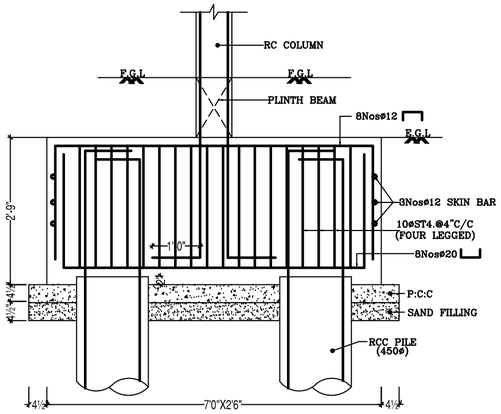
1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) UNLESS NOTE OTHERWISE.
   FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE. (340KG CEMENT PER Cu.m OF READY MIX CONCRETE WITHOUT FLYASH) EXCEPT FOR PILE , COLUMN CONCRETING. FOR COLUMN CONCRETE FOLLOW MIX 1:1:2 GRADE (M35)
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.)

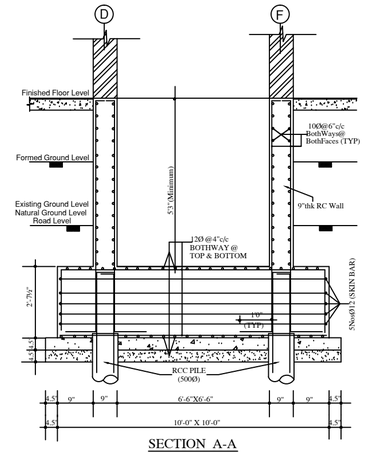
1. THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF THE TOP SOIL IS OF MEDIUM SWELLING TYPE .THEN , IT WILL EXERT UPWARD THRUST ON THE GROUND FLOOR FLOORING. HENCE , IT IS SUGGESTED TO REMOVE TOP 30 - 40 CMS OF NATURAL SOIL AND REPLACE WITH QUARRY DUST / SAND / GRAVEL FOR GROUND FLOOR FLOORING.
3. AFTER THE EXCAVATION , THE FOUNDATION TRENCHES SHOULD BE COMPACTED PROPERLY BEFORE LAYING THE FOUNDATION. THE TOP SLUSH SHOULD DE 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.



PLAN OF PILE CAP– (PC5)

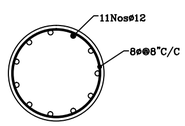


L.S OF PILE CAP– (PC5)
SECTION 7-7

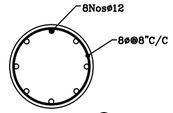


SECTION A-A

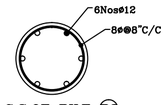
L.S OF PILE CAP– (PC6)



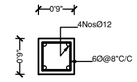
C.S.OF PILE (P1)
(600ø)



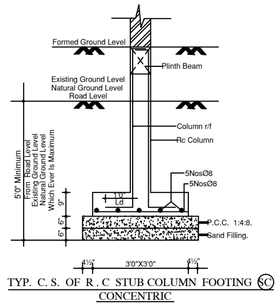
C.S.OF PILE (P2)
(500ø)



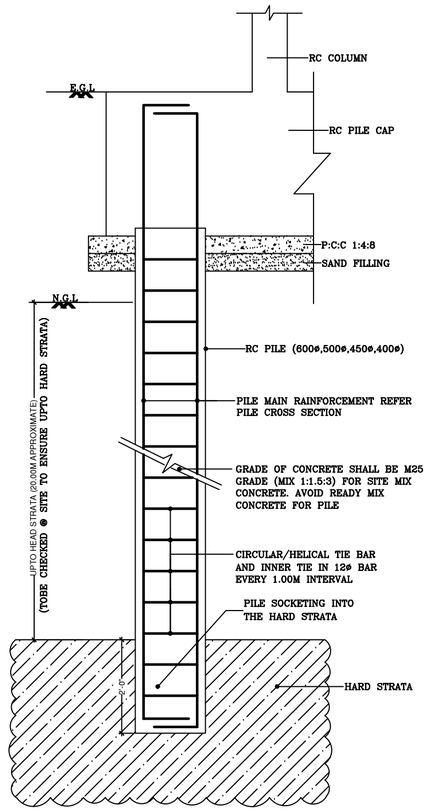
C.S.OF PILE (P3)
(450ø)



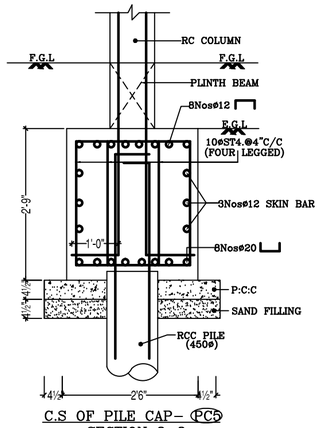
C.S. OF STUB COLUMN (SC)



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



TYPICAL VERTICAL THROUGH PILE



C.S OF PILE CAP– (PC5)
SECTION 8-8

PILE NOTES :-

BORED CAST IN SITU END BEARING DRIVEN PILE BY DIRECT MUD CIRCULATION METHOD (DMC),
BORING TERMINATED AT A DEPTH WHERE 'N' VALUE IN SPT TEST IS MORE THAN 100 FOR MULTI STOREY BUILDING (HEIGHT EXCEEDING 15.0 METER) AND 50 FOR OTHER BUILDING (HEIGHT LESSTHEN 15.0 METER) AND AN EXTRA PENETRATION FOR MINIMUM OF 600mm (PILE SOCKETING) BEYOND ABOVE LEVEL IN THE HARD STRATA.
APPROXIMATELY LENGTH OF PILE SHALL BE 20.00M. READY MIX SHOULD BE AVOID FOR PILE AND COLUMN CONCRETE.
CONCRETING FOR THE PILE SHALL BE DONE USING THE

TREMIE PIPE IN THE SHAFT FOR PROPER PLACING AND COMPACTION OF CONCRETE. THE DESIGN SAFE LOADS FOR THE PILES ARE AS FOLLOWS 6000 113 TONNES,5000 78 TONNES,4500 63 TONNES,4000 50 TONNES.
INITIAL LOAD TEST ON PILES SHALL BE DONE FOR 2.0 TIMES THE DESIGN SAFE LOAD AND ROUTINE LOAD TEST ON WORKING PILES SHALL BE DONE FOR 1.5 TIMES THE DESIGN SAFE LOAD OR FOR 12mm SETTLEMENT WHICH EVER IS MINIMUM AS PER THE IS 2911 (PART IV). CHOPPING OF PILE SHALL BE DONE FOR A LENGTH OF MINIMUM 500mm BEFORE LAYING OF PILE CAP.

METHOD OF CONCRETING OF PILE:

AFTER COMPLETION OF PILE BORING FLUSH. THE BORE INITIALLY AND THEN PLACE THE PILE REINFORCEMENT CAGE INSIDE THE PILE BORE. PLACE THE TREMIE PIPE INSIDE THE REINFORCEMENT CAGE UP TO THE BOTTOM LEVEL OF BORE THEN START THE CONCRETING OF PILE THROUGH THE TREMIE PIPE. MAINTAIN ALWAYS TREMIE PIPE FOR A LENGTH OF 0.5 METER INSIDE THE CONCRETE DURING THE TIME OF CONCRETING. READYMIX CONCRETE SHOULD NOT BE USED FOR PILE CONCERETING.RECORD ALL THE BORING DETAIL,TIME, DEPTH DETAIL, PILE SHOCKETING TIME,DEPTH DETAIL THEORTICAL VOLUME OF CONCRETE FOR THE SITE BORE DEPTH, ACTUAL VOLUME OF CONCRETE POURED IN THE PILE AT SITE THE ACTUAL VOLUME OF CONCRETE SHOULD BE MORE THAN THE THEORTICAL VOLUME OF CONCRETE.

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FOUNDATION DETAILS-III

Dwg No... 11508 S -04

SCALE:1=4"-3/4"

DATE : 07/ 05 / 2024

ARCHITECT:

DSND : S.P.S.I

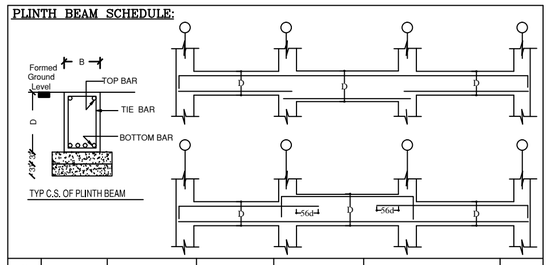
DRN : SENTHIL.R

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

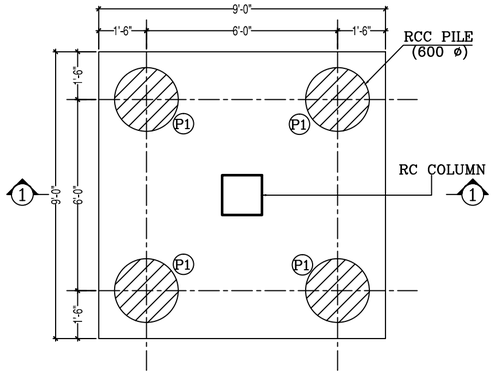
S.P.S.Inbarajan, M.E., A.M.I.E.,
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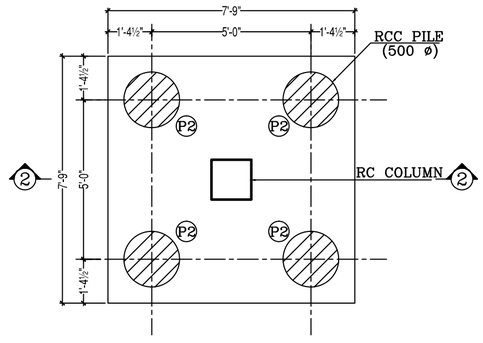
PLINTH BEAM SCHEDULE:



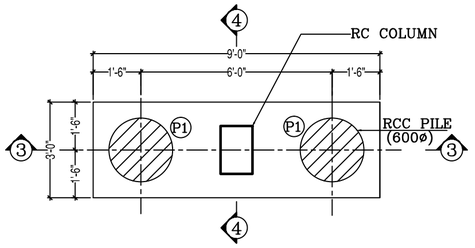
SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(9"X1'6")	3NosØ16	4NosØ16	8ØST2.@8"C/C	Formed Ground Level
2.	PB2	(9"X1'6")	3NosØ16	3NosØ16 3NosØ16	8ØST2.@4"C/C(End 1/3rd Span) 8ØST2.@8"C/C(Mid 1/3rd Span) 8ØST2.@4"C/C(End 1/3rd Span)	
3.	PB3	(9"X1'6")	3NosØ16	3NosØ16 2NosØ16	8ØST2.@5"C/C(End 1/3rd Span) 8ØST2.@10"C/C(Mid 1/3rd Span) 8ØST2.@5"C/C(End 1/3rd Span)	
4.	PB4	(9"X1'6")	3NosØ16	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)	
5.	PB5	(9"X1'3")	2NosØ16	3NosØ16 1NosØ12	8ØST2.@8"C/C	
6.	PB6	(9"X1'3")	2NosØ12	4NosØ12	8ØST2.@10"C/C	
7.	PB7	(9"X1'3")	2NosØ12	2NosØ12	8ØST2.@10"C/C	



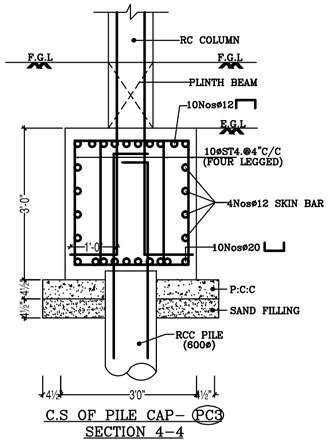
PLAN OF PILE CAP– (PC1)



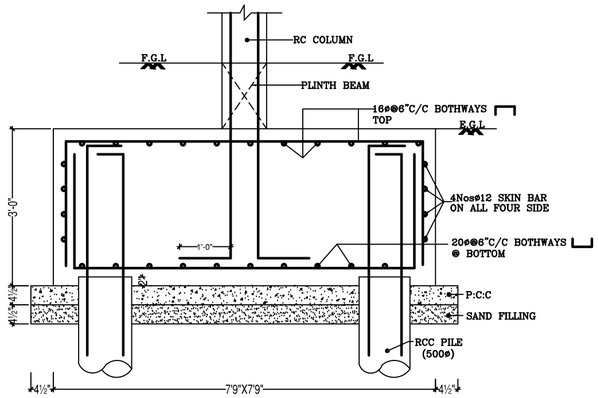
PLAN OF PILE CAP– (PC2)



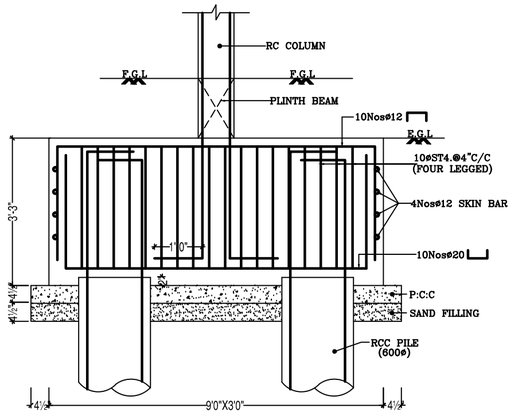
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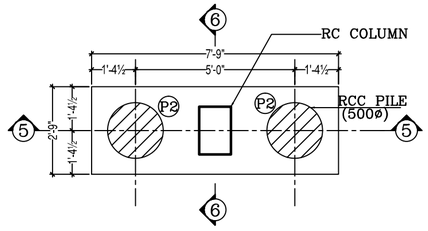
C.S OF PILE CAP– (PC3)
SECTION 4–4



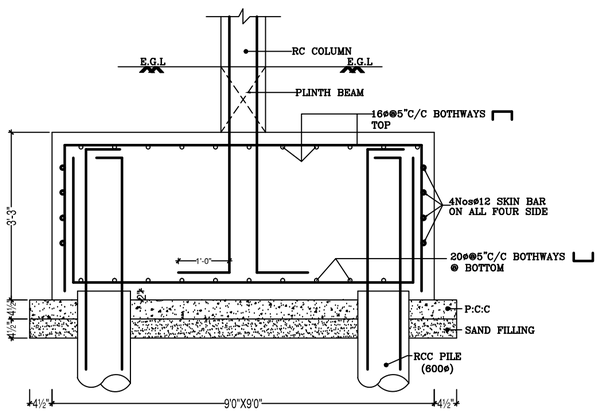
L.S OF PILE CAP– (PC2)
SECTION 2–2



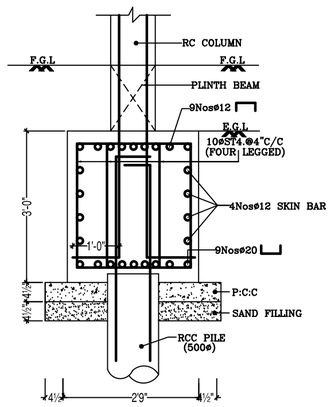
L.S OF PILE CAP– (PC3)
SECTION 3–3



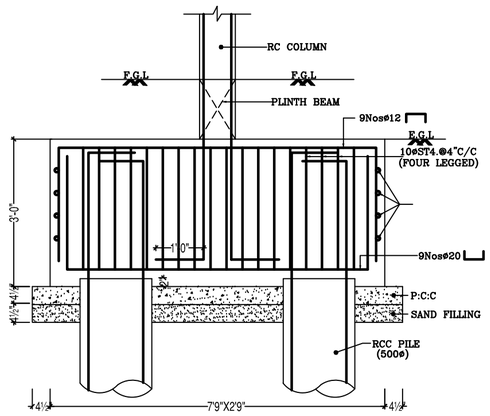
PLAN OF PILE CAP– (PC4)



L.S OF PILE CAP– (PC1)
SECTION 1–1



C.S OF PILE CAP– (PC4)
SECTION 6–6



L.S OF PILE CAP– (PC2)
SECTION 5–5

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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.

PROPOSED RESIDENTIAL BUILDING FOR M/S.ROHINI PROPERTY & DEVOLPERS
AT NEELANKANTA MEHTA STREET,T.NAGAR, CHENNAI.

FOUNDATION DETAILS-II

Dwg No... 11508 S -03

DATE : 07.05.2024 | SCALE:1/4"-3/4" | DSND : S.P.S.I | DRN : SENTHIL.R

ARCHITECT:

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

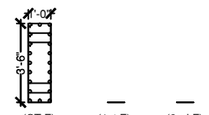
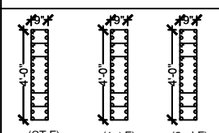
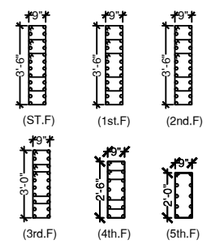
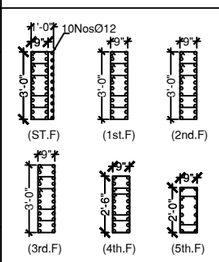
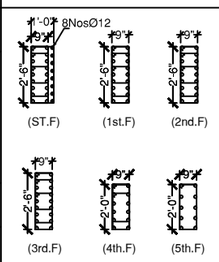
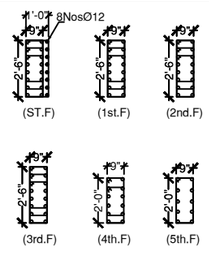
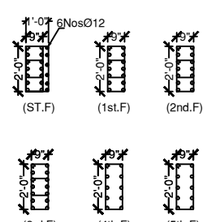
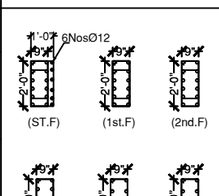
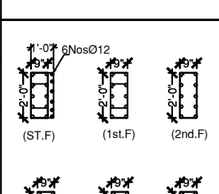
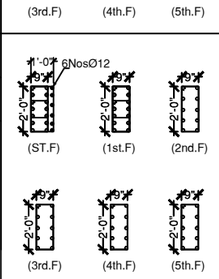
No:50, Kirupasankari Street, West Mambalam,
Chennai - 600 033. Ph : 2485 46 03

BOURNA
Consultants - Engineers

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

COLUMN DETAILS:

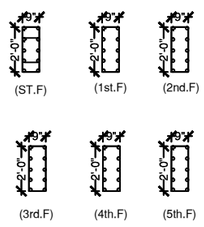
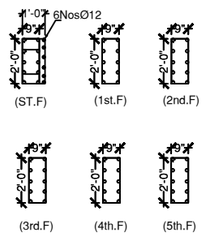
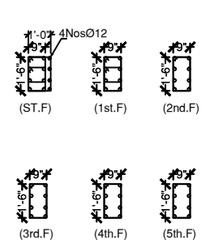
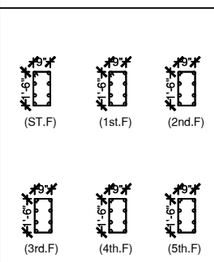
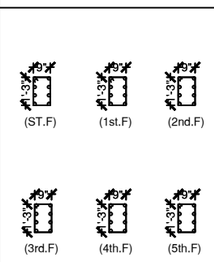
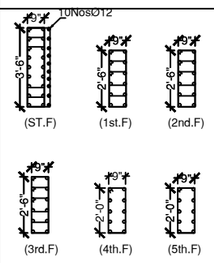
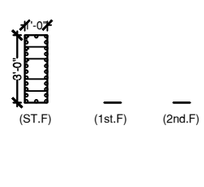
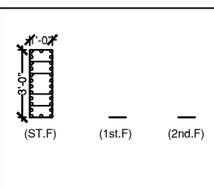
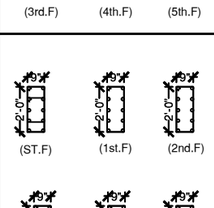
FLOOR DETAILS: **ST.F.=** STILT FLOOR. **1st.F=** FIRST FLOOR. **2nd.F.=** SECONDFLOOR. **3rd.F.=** THIRD FLOOR. **4th.F=** FOURTH FLOOR. **5th.F=** FIFTH FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	C1	ST.F. = (1'0"X3'6")	20NosØ25	3Nos/Set 10Ø@8"C/C	
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		
		4th.F. = -	-		
		5th.F. = -	-		
2.	C2	ST.F. = (9"X4'0")	28NosØ20	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X4'0")	8NosØ20+ 20NosØ16		
		2nd.F. = (9"X4'0")	8NosØ16+ 20NosØ12		
		3rd.F. = (9"X3'0")	22NosØ12		
		4th.F. = (9"X2'6")	16NosØ12		
		5th.F. = (9"X2'0")	12NosØ12	8Ø@8"C/C	
3.	C3	ST.F. = (9"X3'6")	24NosØ20	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X3'6")	8NosØ20+ 16NosØ16		
		2nd.F. = (9"X3'6")	8NosØ16+ 16NosØ12		
		3rd.F. = (9"X3'0")	20NosØ12		
		4th.F. = (9"X2'6")	14NosØ12		
		5th.F. = (9"X2'0")	10NosØ12	8Ø@8"C/C	
4.	C4	ST.F. = (1'0"X3'0")	24NosØ20+ 10NosØ12	4Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X3'0")	24NosØ20	3Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X3'0")	4NosØ20+ 20NosØ16		
		3rd.F. = (9"X3'0")	4NosØ16+ 20NosØ12		
		4th.F. = (9"X2'6")	20NosØ12		
		5th.F. = (9"X2'0")	12NosØ12	2Nos/Set 8Ø@8"C/C	
5.	C5	ST.F. = (1'0"X2'6")	18NosØ20+ 8NosØ12	4Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'6")	18NosØ20	3Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X2'6")	18NosØ16		
		3rd.F. = (9"X2'6")	18NosØ12		
		4th.F. = (9"X2'0")	12NosØ12	2Nos/Set 8Ø@8"C/C	
		5th.F. = (9"X2'0")	10NosØ12	8Ø@8"C/C	
6.	C6	ST.F. = (1'0"X2'6")	16NosØ20+ 8NosØ12	4Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'6")	16NosØ20	3Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X2'6")	16NosØ16		
		3rd.F. = (9"X2'6")	16NosØ12		
		4th.F. = (9"X2'0")	12NosØ12	8Ø@8"C/C	
		5th.F. = (9"X2'0")	10NosØ12		
7.	C7	ST.F. = (1'0"X2'0")	14NosØ20+ 6NosØ12	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	14NosØ20	2Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X2'0")	14NosØ16		
		3rd.F. = (9"X2'0")	14NosØ12	8Ø@8"C/C	
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		
8.	C8	ST.F. = (1'0"X2'0")	12NosØ20+ 6NosØ12	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	12NosØ20	2Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X2'0")	12NosØ16		
		3rd.F. = (9"X2'0")	12NosØ12	8Ø@8"C/C	
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		
9.	C9	ST.F. = (1'0"X2'0")	10NosØ20+ 6NosØ12	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	10NosØ20	2Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X2'0")	10NosØ16		
		3rd.F. = (9"X2'0")	10NosØ12	8Ø@8"C/C	
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		
10.	C10	ST.F. = (1'0"X2'0")	14NosØ16+ 6NosØ12	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	14NosØ16	2Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X2'0")	10NosØ16	8Ø@8"C/C	
		3rd.F. = (9"X2'0")	10NosØ12		
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		

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
11.	C11	ST.F. = (9"X2'0")	10NosØ20	2Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	10NosØ16	8Ø@8"C/C	
		2nd.F. = (9"X2'0")	10NosØ12		
		3rd.F. = (9"X2'0")	10NosØ12		
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		
12.	C12	ST.F. = (1'0"X2'0")	10NosØ16+ 6NosØ12	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	10NosØ16	8Ø@8"C/C	
		2nd.F. = (9"X2'0")	10NosØ12		
		3rd.F. = (9"X2'0")	10NosØ12		
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		
13.	C13	ST.F. = (1'0"X1'6")	8NosØ20+ 4NosØ12	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X1'6")	8NosØ20	2Nos/Set 8Ø@8"C/C	
		2nd.F. = (9"X1'6")	8NosØ16	8Ø@8"C/C	
		3rd.F. = (9"X1'6")	8NosØ12		
		4th.F. = (9"X1'6")	8NosØ12		
		5th.F. = (9"X1'6")	8NosØ12		
14.	C14	ST.F. = (9"X1'6")	8NosØ16	8Ø@8"C/C	
		1st.F. = (9"X1'6")	4NosØ16+ 4NosØ12		
		2nd.F. = (9"X1'6")	8NosØ12		
		3rd.F. = (9"X1'6")	8NosØ12		
		4th.F. = (9"X1'6")	8NosØ12		
		5th.F. = (9"X1'6")	8NosØ12		
15.	C15	ST.F. = (9"X1'3")	8NosØ12	8Ø@8"C/C	
		1st.F. = (9"X1'3")	8NosØ12		
		2nd.F. = (9"X1'3")	8NosØ12		
		3rd.F. = (9"X1'3")	8NosØ12		
		4th.F. = (9"X1'3")	8NosØ12		
		5th.F. = (9"X1'3")	8NosØ12		
16.	C2A	ST.F. = (1'0"X3'6")	18NosØ25+ 10NosØ12	4Nos/Set 10Ø@8"C/C	
		1st.F. = (9"X2'6")	12NosØ25	3Nos/Set 10Ø@8"C/C	
		2nd.F. = (9"X2'6")	12NosØ20	3Nos/Set 8Ø@8"C/C	
		3rd.F. = (9"X2'6")	12NosØ16		
		4th.F. = (9"X2'0")	10NosØ16	8Ø@8"C/C	
		5th.F. = (9"X2'0")	10NosØ12		
17.	C3A	ST.F. = (1'0"X3'0")	26NosØ20	3Nos/Set 8Ø@8"C/C	
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		
		4th.F. = -	-		
		5th.F. = -	-		
18.	C4A	ST.F. = (1'0"X3'0")	26NosØ20	3Nos/Set 8Ø@8"C/C	
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		
		4th.F. = -	-		
		5th.F. = -	-		
19.	C12A	ST.F. = (9"X2'0")	10NosØ20	3Nos/Set 8Ø@8"C/C	
		1st.F. = (9"X2'0")	10NosØ16	8Ø@8"C/C	
		2nd.F. = (9"X2'0")	10NosØ12		
		3rd.F. = (9"X2'0")	10NosØ12		
		4th.F. = (9"X2'0")	10NosØ12		
		5th.F. = (9"X2'0")	10NosØ12		

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS, (Viai) 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.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

PROPOSED RESIDENTIAL BUILDING FOR M/S.ROHINI PROPERTY & DEVOLPERS
AT NEELANKANTA MEHTA STREET,T.NAGAR, CHENNAI.

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

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

BOURNA
Consultants - Engineers

FOUNDATION DETAILS-I

DATE : 07: 05 : 2024 | SCALE:1/4",3/4"

ARCHITECT:

Dwg No...
11508
S -02

DSND : S.P.S.I

DRN : SENTHIL.R



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Home Vastu Shastra, Plot Vastu Shastra, Property Management

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