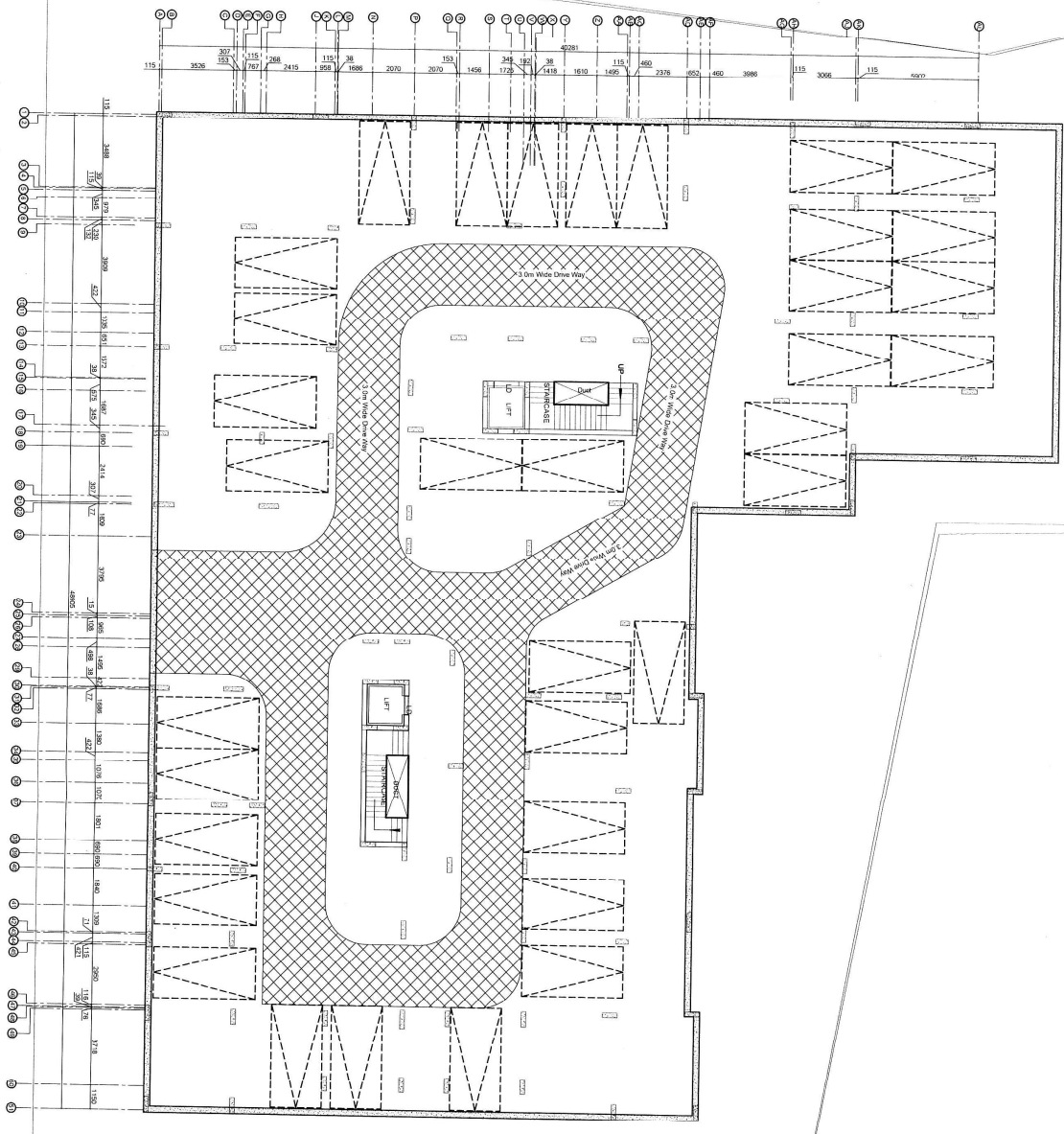


LAYOUT OF BASEMENT FLOOR



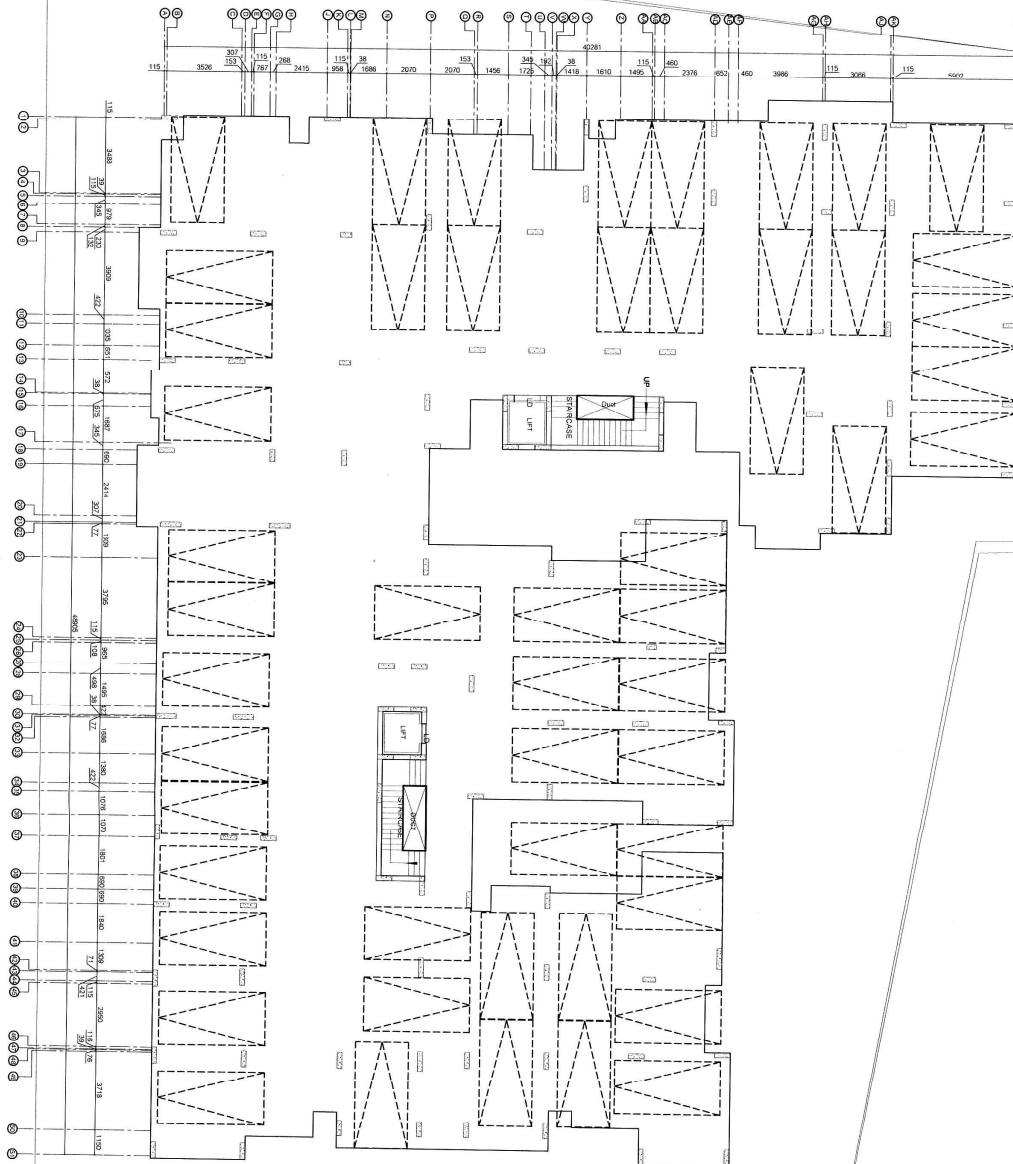
REV	NO	DESCRIPTION	DATE	BY	CHKD	APPD
0	1	ISSUED FOR APPROVAL	10/10/2017	SVS	SVS	SVS
1	2	FOR REVIEW	10/10/2017	SVS	SVS	SVS
2	3	FOR REVIEW	10/10/2017	SVS	SVS	SVS
3	4	FOR REVIEW	10/10/2017	SVS	SVS	SVS
4	5	FOR REVIEW	10/10/2017	SVS	SVS	SVS
5	6	FOR REVIEW	10/10/2017	SVS	SVS	SVS
6	7	FOR REVIEW	10/10/2017	SVS	SVS	SVS
7	8	FOR REVIEW	10/10/2017	SVS	SVS	SVS
8	9	FOR REVIEW	10/10/2017	SVS	SVS	SVS
9	10	FOR REVIEW	10/10/2017	SVS	SVS	SVS
10	11	FOR REVIEW	10/10/2017	SVS	SVS	SVS
11	12	FOR REVIEW	10/10/2017	SVS	SVS	SVS
12	13	FOR REVIEW	10/10/2017	SVS	SVS	SVS
13	14	FOR REVIEW	10/10/2017	SVS	SVS	SVS
14	15	FOR REVIEW	10/10/2017	SVS	SVS	SVS
15	16	FOR REVIEW	10/10/2017	SVS	SVS	SVS
16	17	FOR REVIEW	10/10/2017	SVS	SVS	SVS
17	18	FOR REVIEW	10/10/2017	SVS	SVS	SVS
18	19	FOR REVIEW	10/10/2017	SVS	SVS	SVS
19	20	FOR REVIEW	10/10/2017	SVS	SVS	SVS
20	21	FOR REVIEW	10/10/2017	SVS	SVS	SVS
21	22	FOR REVIEW	10/10/2017	SVS	SVS	SVS
22	23	FOR REVIEW	10/10/2017	SVS	SVS	SVS
23	24	FOR REVIEW	10/10/2017	SVS	SVS	SVS
24	25	FOR REVIEW	10/10/2017	SVS	SVS	SVS
25	26	FOR REVIEW	10/10/2017	SVS	SVS	SVS
26	27	FOR REVIEW	10/10/2017	SVS	SVS	SVS
27	28	FOR REVIEW	10/10/2017	SVS	SVS	SVS
28	29	FOR REVIEW	10/10/2017	SVS	SVS	SVS
29	30	FOR REVIEW	10/10/2017	SVS	SVS	SVS
30	31	FOR REVIEW	10/10/2017	SVS	SVS	SVS
31	32	FOR REVIEW	10/10/2017	SVS	SVS	SVS
32	33	FOR REVIEW	10/10/2017	SVS	SVS	SVS
33	34	FOR REVIEW	10/10/2017	SVS	SVS	SVS
34	35	FOR REVIEW	10/10/2017	SVS	SVS	SVS
35	36	FOR REVIEW	10/10/2017	SVS	SVS	SVS
36	37	FOR REVIEW	10/10/2017	SVS	SVS	SVS
37	38	FOR REVIEW	10/10/2017	SVS	SVS	SVS
38	39	FOR REVIEW	10/10/2017	SVS	SVS	SVS
39	40	FOR REVIEW	10/10/2017	SVS	SVS	SVS
40	41	FOR REVIEW	10/10/2017	SVS	SVS	SVS
41	42	FOR REVIEW	10/10/2017	SVS	SVS	SVS
42	43	FOR REVIEW	10/10/2017	SVS	SVS	SVS
43	44	FOR REVIEW	10/10/2017	SVS	SVS	SVS
44	45	FOR REVIEW	10/10/2017	SVS	SVS	SVS
45	46	FOR REVIEW	10/10/2017	SVS	SVS	SVS
46	47	FOR REVIEW	10/10/2017	SVS	SVS	SVS
47	48	FOR REVIEW	10/10/2017	SVS	SVS	SVS
48	49	FOR REVIEW	10/10/2017	SVS	SVS	SVS
49	50	FOR REVIEW	10/10/2017	SVS	SVS	SVS
50	51	FOR REVIEW	10/10/2017	SVS	SVS	SVS
51	52	FOR REVIEW	10/10/2017	SVS	SVS	SVS
52	53	FOR REVIEW	10/10/2017	SVS	SVS	SVS
53	54	FOR REVIEW	10/10/2017	SVS	SVS	SVS
54	55	FOR REVIEW	10/10/2017	SVS	SVS	SVS
55	56	FOR REVIEW	10/10/2017	SVS	SVS	SVS
56	57	FOR REVIEW	10/10/2017	SVS	SVS	SVS
57	58	FOR REVIEW	10/10/2017	SVS	SVS	SVS
58	59	FOR REVIEW	10/10/2017	SVS	SVS	SVS
59	60	FOR REVIEW	10/10/2017	SVS	SVS	SVS
60	61	FOR REVIEW	10/10/2017	SVS	SVS	SVS
61	62	FOR REVIEW	10/10/2017	SVS	SVS	SVS
62	63	FOR REVIEW	10/10/2017	SVS	SVS	SVS
63	64	FOR REVIEW	10/10/2017	SVS	SVS	SVS
64	65	FOR REVIEW	10/10/2017	SVS	SVS	SVS
65	66	FOR REVIEW	10/10/2017	SVS	SVS	SVS
66	67	FOR REVIEW	10/10/2017	SVS	SVS	SVS
67	68	FOR REVIEW	10/10/2017	SVS	SVS	SVS
68	69	FOR REVIEW	10/10/2017	SVS	SVS	SVS
69	70	FOR REVIEW	10/10/2017	SVS	SVS	SVS
70	71	FOR REVIEW	10/10/2017	SVS	SVS	SVS
71	72	FOR REVIEW	10/10/2017	SVS	SVS	SVS
72	73	FOR REVIEW	10/10/2017	SVS	SVS	SVS
73	74	FOR REVIEW	10/10/2017	SVS	SVS	SVS
74	75	FOR REVIEW	10/10/2017	SVS	SVS	SVS
75	76	FOR REVIEW	10/10/2017	SVS	SVS	SVS
76	77	FOR REVIEW	10/10/2017	SVS	SVS	SVS
77	78	FOR REVIEW	10/10/2017	SVS	SVS	SVS
78	79	FOR REVIEW	10/10/2017	SVS	SVS	SVS
79	80	FOR REVIEW	10/10/2017	SVS	SVS	SVS
80	81	FOR REVIEW	10/10/2017	SVS	SVS	SVS
81	82	FOR REVIEW	10/10/2017	SVS	SVS	SVS
82	83	FOR REVIEW	10/10/2017	SVS	SVS	SVS
83	84	FOR REVIEW	10/10/2017	SVS	SVS	SVS
84	85	FOR REVIEW	10/10/2017	SVS	SVS	SVS
85	86	FOR REVIEW	10/10/2017	SVS	SVS	SVS
86	87	FOR REVIEW	10/10/2017	SVS	SVS	SVS
87	88	FOR REVIEW	10/10/2017	SVS	SVS	SVS
88	89	FOR REVIEW	10/10/2017	SVS	SVS	SVS
89	90	FOR REVIEW	10/10/2017	SVS	SVS	SVS
90	91	FOR REVIEW	10/10/2017	SVS	SVS	SVS
91	92	FOR REVIEW	10/10/2017	SVS	SVS	SVS
92	93	FOR REVIEW	10/10/2017	SVS	SVS	SVS
93	94	FOR REVIEW	10/10/2017	SVS	SVS	SVS
94	95	FOR REVIEW	10/10/2017	SVS	SVS	SVS
95	96	FOR REVIEW	10/10/2017	SVS	SVS	SVS
96	97	FOR REVIEW	10/10/2017	SVS	SVS	SVS
97	98	FOR REVIEW	10/10/2017	SVS	SVS	SVS
98	99	FOR REVIEW	10/10/2017	SVS	SVS	SVS
99	100	FOR REVIEW	10/10/2017	SVS	SVS	SVS

N. KARIKALAN, M.E. (Struc Engg.), MIE
 CMDA Reg. No : SECSR417563012
 Chartered Engineer (M-164542419)
 No.15, Flat-B, Sri Ayyan Ilam, 1st Floor,
 1st Street, Narasimman Nagar,
 Ramapuram, Chennai - 600 089
 Mobile : 98642 45633
 Email : nkarikalan1985@gmail.com



This drawing is the property of N. Karikalan, M.E. (Struc Engg.), MIE, CMDA Reg. No : SECSR417563012, Chartered Engineer (M-164542419). It is to be used only for the project for which it is prepared and is not to be used for any other purpose without the written consent of the Engineer. The Engineer is not responsible for any errors or omissions in this drawing.

LAYOUT OF 3RD FLOOR



N. KARKALAN, M.E. (Struct Engg.), MIE
 CMDA Reg. No.: SEGR-1/19/03/012
 Chartered Engineer (M-164542/19)
 No. 15, Flat-B, Sri Ayyan Illam, 1st Floor,
 Ramapuram, Chennai-600 089
 Mobile : 98942 46633
 Email : nkarkalan1985@gmail.com

SCALE:

1:100 (Horizontal) 1:50 (Vertical)

REV. NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
0	ISSUED FOR APPROVAL				

SIVASANKARI
 STRUCTURAL CONSULTANT

CLIENT: MRS. SIVASANKARI
 PROJECT: RESIDENTIAL BUILDING
 AT: RAMAPURAM CHENNAI

CONSULTANT: SIVASANKARI
 PROJECT ARCHITECT: MRS. SIVASANKARI

SUPPLIER CONTRACTOR: _____

DATE: _____

TITLE: RESIDENTIAL BUILDING
 LAYOUT OF 3RD FLOOR

PROJECT NO.: A2506 C - RB - 01 - JU - 0002

DATE: _____

SCALE: 1:100 (Horizontal) 1:50 (Vertical)

PROJECT NO.: A2506 C - RB - 01 - JU - 0002

DATE: _____

TITLE: RESIDENTIAL BUILDING
 LAYOUT OF 3RD FLOOR

PROJECT NO.: A2506 C - RB - 01 - JU - 0002

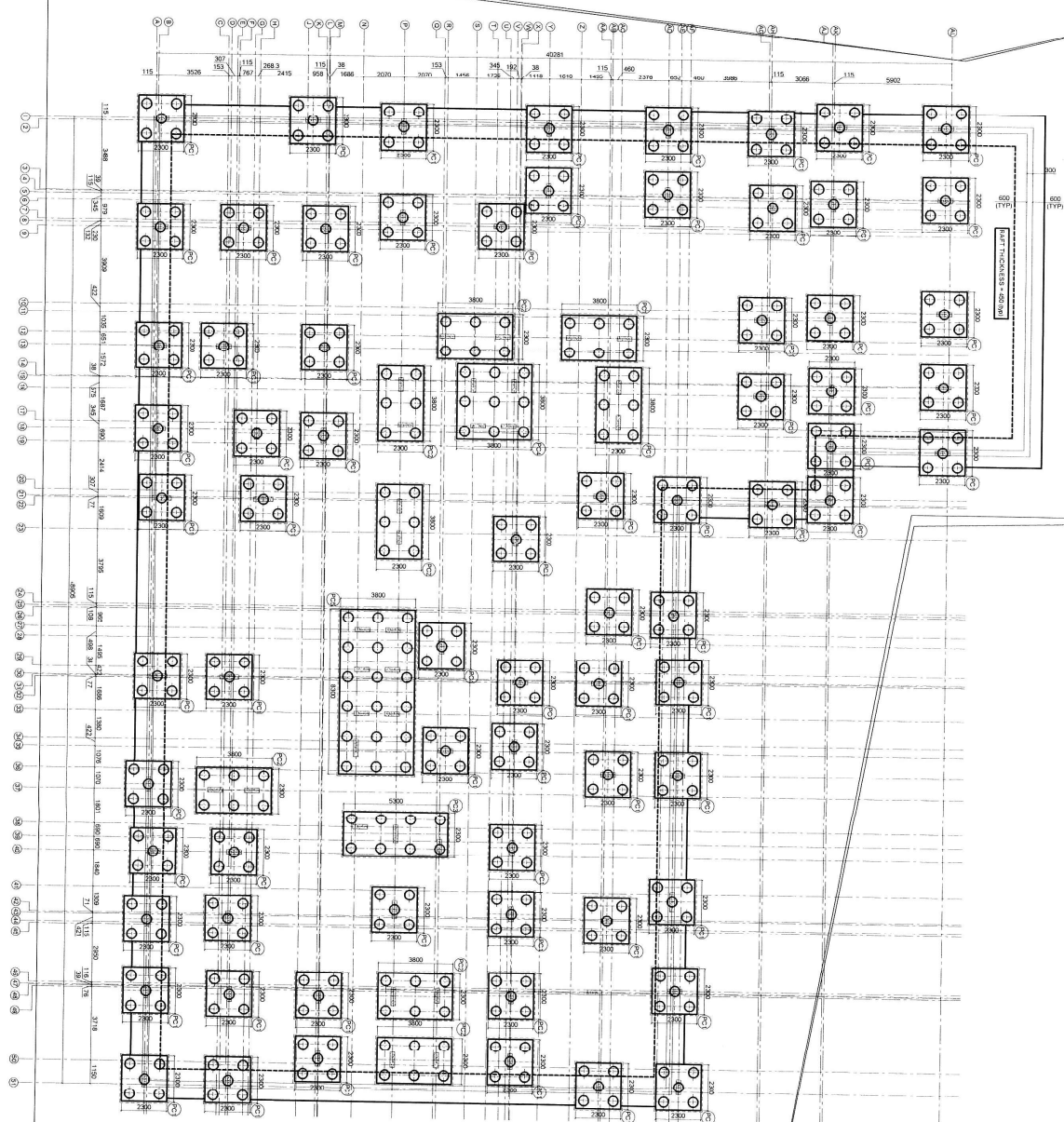


This drawing is the property of SIVASANKARI STRUCTURAL CONSULTANT. It is to be used only for the project for which it is prepared. It is not to be used for any other project without the written consent of SIVASANKARI STRUCTURAL CONSULTANT.



Mobile : 98374 1985
Email : rkarikalan1985@gmail.com

LAYOUT NAME DET OF PILE CAP

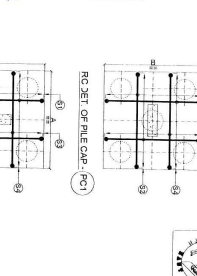
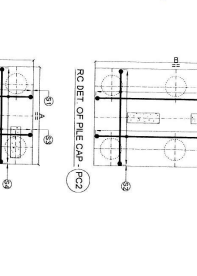
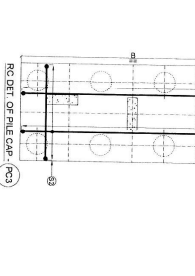
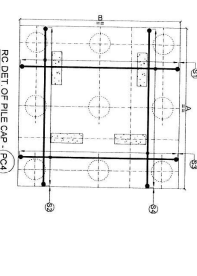
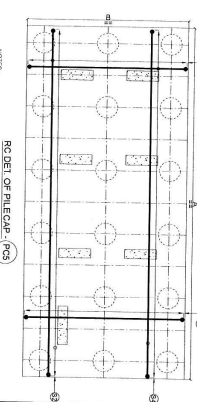


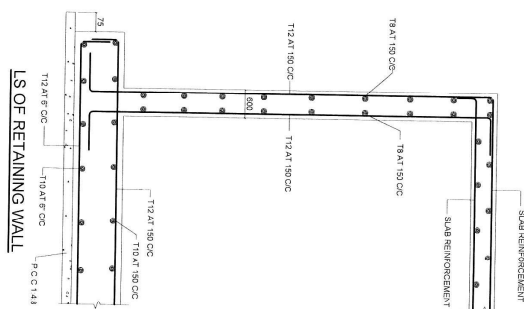
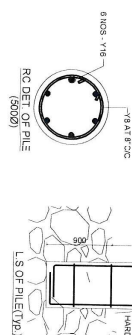
SCHEDULE OF PILE CAP

Sl. No.	PILE CAP	SIZE	QUANTITY	UNIT PRICE	TOTAL PRICE
1	P1	3000x3000	1	180000	180000
2	P2	3000x3000	1	180000	180000
3	P3	3000x3000	1	180000	180000
4	P4	3000x3000	1	180000	180000
5	P5	3000x3000	1	180000	180000
6	P6	3000x3000	1	180000	180000
7	P7	3000x3000	1	180000	180000
8	P8	3000x3000	1	180000	180000
9	P9	3000x3000	1	180000	180000
10	P10	3000x3000	1	180000	180000
11	P11	3000x3000	1	180000	180000
12	P12	3000x3000	1	180000	180000
13	P13	3000x3000	1	180000	180000
14	P14	3000x3000	1	180000	180000
15	P15	3000x3000	1	180000	180000
16	P16	3000x3000	1	180000	180000
17	P17	3000x3000	1	180000	180000
18	P18	3000x3000	1	180000	180000
19	P19	3000x3000	1	180000	180000
20	P20	3000x3000	1	180000	180000
21	P21	3000x3000	1	180000	180000
22	P22	3000x3000	1	180000	180000
23	P23	3000x3000	1	180000	180000
24	P24	3000x3000	1	180000	180000

N. KIRKILAN, M.E. (Struct Engg.), MIE
 CHDRA Reg. No: SE/GR-19/03/012
 Chartered Engineer (M-1644542/19)
 No. 15, Flr-B, Sri Ayan Illem, 1st Floor,
 1st Street, Narasimman Nagar,
 Ramapuram, Chennai - 600 089
 Mobile: 98942 45633
 Email: nkirkilan1985@gmail.com

SVASANKARI
 STRUCTURAL CONSULTANT
 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



LS OF RETAINING WALL

PILE DIAMETER	500 Ø
VERTICAL CAPACITY	600.0 kN
HORIZONTAL CAPACITY	72.0 kN
UPLIFT CAPACITY	420.0 kN

SCHEDULE OF PILE LOADING

N. KARIKALAN, M.E./Struct.Engg.,
CMDA Reg. No. : SE/GR/19/03/01
Chartered Engineer (M-1644542/1)
No.15, Flat-B, Sri Ayyan Illam, 1st F
1st Street, Narasimman Nagar,
Rampuram, Chennai - 600 089
Mobile : 89942 45633
Email : nkarikalan1986@gmail.com

		C.D. DEVELOPMENT LENS							
		21mm		28mm		35mm		42mm	
GRADE		8	10	12	16	20	25	30	35
M20		14.5°	19°	20°	27.5°	34.5°	35.0°		
M25		13°	16°	19°	24.5°	210.5°	31.5°		
M30		11.5°	14.5°	17.5°	23°	27.5°	34.5°		

Table 1. Minimum cement content (kg/m ³)		
	MINIMUM CEMENT CONTENT (kg/m ³)	WATER CEMENT RATIO
PCC	240	0.60

DE-SHUTTERING PERIOD:	
MEMBER AND	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
INTERIORS/SPACE	7 DAYS
COLUMN	24 HOURS

REINFORCED CEMENT CONCRETE(RCC).

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m ³)	WATER CEMENT RATIO
M20	300	0.55
M25	300	0.50
M30	320	0.45

1. ALL DIMENSIONS ARE IN FEET AND INCHES. 1 LEVELS ARE	
2. "T" DENOTES HYSD BARS (Fe 500 / Fe 500 D) CONFORMING	
IS - 1786 2008	
3. UOS MINIMUM CLEAR COVER TO ANY REINFT. SHALL BE AS	
MEMBER AND	CLEAR COVER

PILE, PILE CAP	75 mm
COLUMN	40 mm
BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
SLAB	20 mm OR BAR DIA WHICHEVER IS GREATER

4 MIN GRADE OF CONCRETE FOR PILE & PILE CAP SHALL BE MIN GRADE OF CONCRETE FOR COLUMN BEAM SLAB SHALL BE

MIN. GRADE OF CONCRETE FOR JNTL & SLASHADE SHALL BE 2500 PSI.
5. LAPS SHALL BE STAGGERED SUCH THAT NO MORE THEN 3 BARS OF REINFORCEMENT IS LAPPED AT ANY LOCATION
6. TOP BARS IN BEAMS & SLABS SHALL BE LAPPED AT MID SPAN AT SUPPORT ZONE
7. BOTTOM BARS IN BEAMS & SLABS SHALL BE LAPPED AT ENDS

9 ALL HOOKS, BENDS AND LAP'S SHALL BE
AS PER IS - 2502:1963 & IS13020:1993 UNLESS OTHERWISE
BUILDING CO-ORDINATES TO BE DECIDED BY ARCHITECT
IN CASE OF ANY CO-ORDINATION ISSUE BETWEEN THE

0	ISSUED FOR APPROVAL	
---	---------------------	--



SIVASANKARI
STRUCTURAL CONSULTANT

MOBILE NO: 98400 98400
E-MAIL ID: sivasankari@rediffmail.com

CLIENT : M/S PRIYA CONSTRUCTION	CON
PROJECT : PROPOSED RESIDENTIAL BUILDING AT MUDALIYAKKAM, CHENNAI	CON
SUPPLIER/CONTRACTOR	

JOB No: A25005			TITLE:
NAME	SIGN	DATE	<u>RESIDENTIAL</u>
DK		26.06.18	LAYOUT OF NUM. 35
JSAN		28.06.18	

NOX	NOX	28 06 18
NOX	NOX	28 06 18

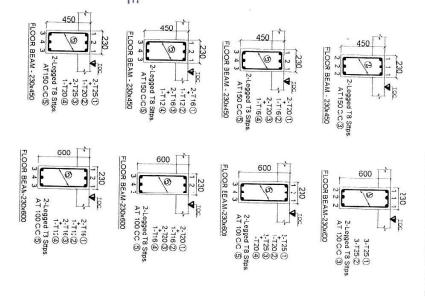
RAWING No. A25005 - C - RB - 01 - NU - 0001

RELEASED FOR	☐ PRELIMINARY	☐ TENDER	☐ INFO
		2	

LAYOUT PLAN OF 1ST FLOOR BEAM & SLAB



N. KARIKALAN, M.E. (Struc Engg), MIE
CMDA Reg. No : SE/GR/19/03/012
Chartered Engineer (M-16445/2/19)
No.15, Flat-B, Sri Ayyan Ilam, 1st Floor,
1st Street, Narasimman Nagar,
Rampuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com



GRADE	20mm	8	10	12	16	20	25
M20	14.5	19	20	27.5	34.5	31.5	
M25	17.5	19	19	24.5	29.5	31.5	
M30	17.5	14.5	17.5	23	27.5	34.5	

ITEM	QUANTITY	UNIT	REMARKS
1. ALL SURFACES ARE TO BE FINISHED WITH 15mm LIME PUTTER	1	SQ. M	
2. 1" THICKNESS OF ROOF SLAB IS 100mm	1	SQ. M	
3. 1" THICKNESS OF FLOOR SLAB IS 100mm	1	SQ. M	
4. 1" THICKNESS OF PARTITION WALL IS 100mm	1	SQ. M	
5. 1" THICKNESS OF EXTERIOR WALL IS 100mm	1	SQ. M	
6. 1" THICKNESS OF INTERIOR WALL IS 100mm	1	SQ. M	
7. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
8. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
9. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
10. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
11. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
12. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
13. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
14. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
15. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
16. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
17. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
18. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
19. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
20. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
21. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
22. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
23. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
24. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
25. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
26. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
27. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
28. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
29. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
30. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
31. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
32. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
33. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
34. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
35. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
36. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
37. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
38. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
39. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
40. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
41. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
42. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
43. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
44. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
45. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
46. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
47. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
48. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
49. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
50. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
51. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
52. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
53. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
54. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
55. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
56. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
57. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
58. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
59. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
60. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
61. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
62. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
63. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
64. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
65. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
66. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
67. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
68. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
69. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
70. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
71. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
72. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
73. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
74. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
75. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
76. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
77. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
78. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
79. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
80. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
81. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
82. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
83. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
84. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
85. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
86. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
87. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
88. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
89. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
90. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
91. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
92. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
93. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
94. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	
95. 1" THICKNESS OF EXTERIOR IS 100mm	1	SQ. M	
96. 1" THICKNESS OF INTERIOR IS 100mm	1	SQ. M	
97. 1" THICKNESS OF CEILING IS 100mm	1	SQ. M	
98. 1" THICKNESS OF FLOOR IS 100mm	1	SQ. M	
99. 1" THICKNESS OF ROOF IS 100mm	1	SQ. M	
100. 1" THICKNESS OF PARTITION IS 100mm	1	SQ. M	

0 ISSUED FOR APPROVAL 1 ISSUED FOR CONSTRUCTION 2 ISSUED FOR CONSTRUCTION 3 ISSUED FOR CONSTRUCTION 4 ISSUED FOR CONSTRUCTION 5 ISSUED FOR CONSTRUCTION 6 ISSUED FOR CONSTRUCTION 7 ISSUED FOR CONSTRUCTION 8 ISSUED FOR CONSTRUCTION 9 ISSUED FOR CONSTRUCTION		1 ISSUED FOR APPROVAL 2 ISSUED FOR CONSTRUCTION 3 ISSUED FOR CONSTRUCTION 4 ISSUED FOR CONSTRUCTION 5 ISSUED FOR CONSTRUCTION 6 ISSUED FOR CONSTRUCTION 7 ISSUED FOR CONSTRUCTION 8 ISSUED FOR CONSTRUCTION 9 ISSUED FOR CONSTRUCTION	
REVISION NO. 01 - 01 - 0001 DATE: 01/01/2021 BY: N. KARIKALAN CHECKED: N. KARIKALAN APPROVED: N. KARIKALAN		PROJECT INFORMATION PROJECT: 1 ST FLOOR BEAM & SLAB CLIENT: M/S. SIVASANKARI CONSULTANT: SIVASANKARI ADDRESS: 1 ST STREET, NARASIMMAN NAGAR, RAMPURAM, CHENNAI - 600 089	
JOB NO. 425005 TITLE: RESIDENTIAL BUILDING LAYOUT OF 1 ST FLOOR BEAM & SLAB SCALE: 1/100 DATE: 01/01/2021 BY: N. KARIKALAN CHECKED: N. KARIKALAN APPROVED: N. KARIKALAN		PROJECT INFORMATION PROJECT: 1 ST FLOOR BEAM & SLAB CLIENT: M/S. SIVASANKARI CONSULTANT: SIVASANKARI ADDRESS: 1 ST STREET, NARASIMMAN NAGAR, RAMPURAM, CHENNAI - 600 089	



N. KARIKALAN, M.E. (Struct. Engg.), MIE
 CMAA Reg. No. : SE/GR-14/93/37/132
 Chartered Engineer (M-6-4-12/15)
 No. 15, Flat-B, Sri Ayyan Illam, 1st Floor,
 1st Street, Narasimman Nagar,
 Ramapuram, Chennai - 600 359
 Mobile : 98942 45633
 Email : nkarikalan1985@gmail.com

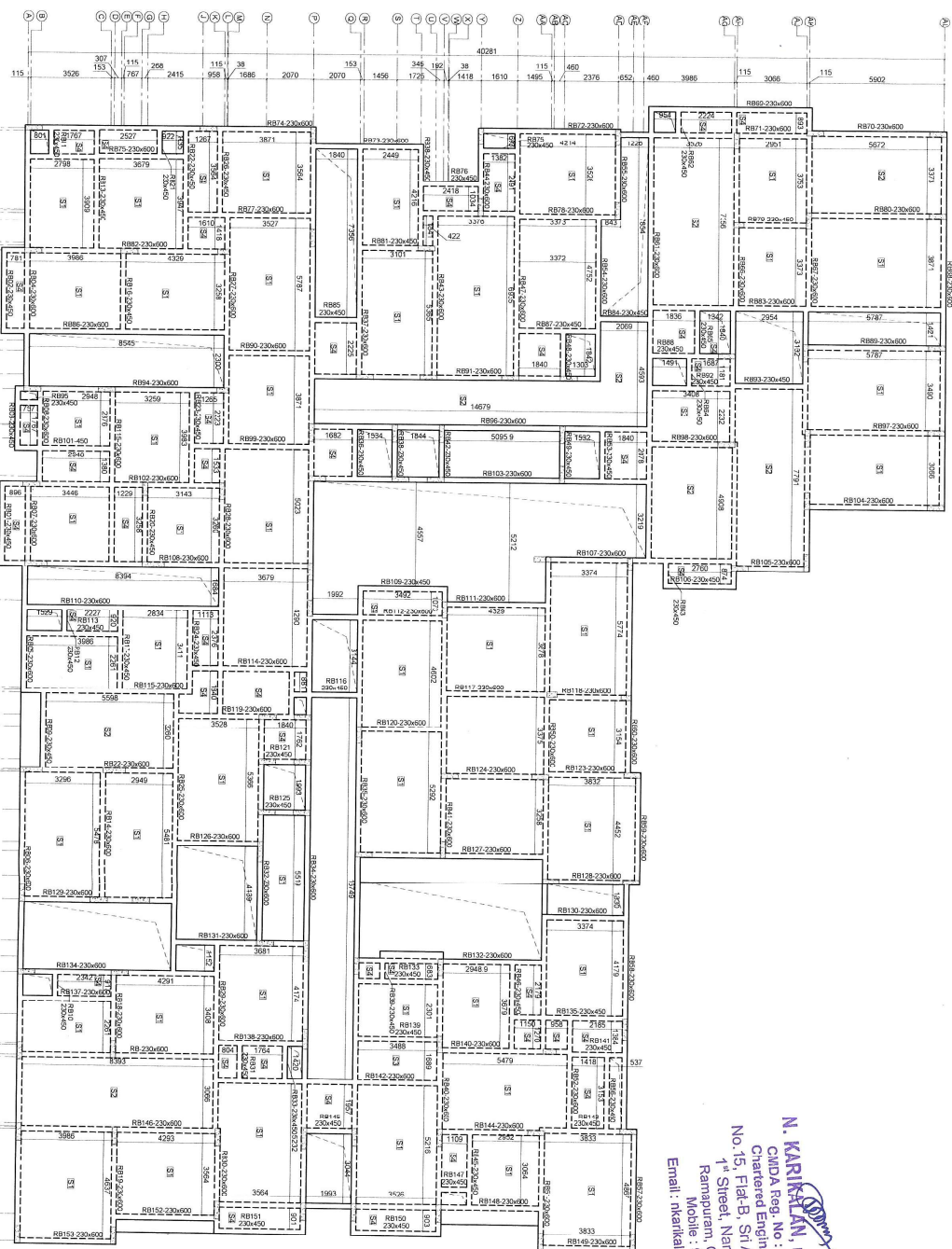
by us to receive it nor be copied or otherwise made use thereof in full or in part by such person or body without our prior permission in writing.

		SECTION DRAWING NO. _____	
		SHEET NO. _____	
PROJECT PROJECT NO. _____		CLIENT CLIENT NAME _____	
CONTRACTOR CONTRACT NO. _____		CONSULTANT CONSULTANT NAME _____	
DESIGNER DESIGNER NAME _____		DATE DATE OF DRAWING _____	
REVISIONS REVISION NO. _____		SCALE SCALE _____	
APPROVAL APPROVAL NAME _____		DATE DATE OF APPROVAL _____	
PROJECT NO. PROJECT NO. _____		CLIENT NAME CLIENT NAME _____	
CONTRACT NO. CONTRACT NO. _____		CONSULTANT NAME CONSULTANT NAME _____	
DESIGNER NAME DESIGNER NAME _____		DATE OF DRAWING DATE OF DRAWING _____	
REVISION NO. REVISION NO. _____		SCALE SCALE _____	
APPROVAL NAME APPROVAL NAME _____		DATE OF APPROVAL DATE OF APPROVAL _____	

[illegible]

MINIMUM CEMENT CONTENT (%)	MINIMUM CEMENT CONTENT (%)
POCC	240
DESIGNATING PERIOD:	
REINFORCED	MINIMUM DESIGN PERIOD
ROOF SLAB	14 DAYS
WATER/SLAB	7 DAYS
	24 HOURS
REINFORCED CRACKS CONTROLLED	
GRADE OF MINIMUM CEMENT	MINIMUM CEMENT
CONTENT (TOWNS)	RATIO
M25	300
M35	350
M40	400
M45	450
M50	500
M55	550
M60	600
M65	650
M70	700
M75	750
M80	800
M85	850
M90	900
M95	950
M100	1000
M105	1050
M110	1100
M115	1150
M120	1200
M125	1250
M130	1300
M135	1350
M140	1400
M145	1450
M150	1500
M155	1550
M160	1600
M165	1650
M170	1700
M175	1750
M180	1800
M185	1850
M190	1900
M195	1950
M200	2000
M205	2050
M210	2100
M215	2150
M220	2200
M225	2250
M230	2300
M235	2350
M240	2400
M245	2450
M250	2500
M255	2550
M260	2600
M265	2650
M270	2700
M275	2750
M280	2800
M285	2850
M290	2900
M295	2950
M300	3000
M305	3050
M310	3100
M315	3150
M320	3200
M325	3250
M330	3300
M335	3350
M340	3400
M345	3450
M350	3500
M355	3550
M360	3600
M365	3650
M370	3700
M375	3750
M380	3800
M385	3850
M390	3900
M395	3950
M400	4000
M405	4050
M410	4100
M415	4150
M420	4200
M425	4250
M430	4300
M435	4350
M440	4400
M445	4450
M450	4500
M455	4550
M460	4600
M465	4650
M470	4700
M475	4750
M480	4800
M485	4850
M490	4900
M495	4950
M500	5000
M505	5050
M510	5100
M515	5150
M520	5200
M525	5250
M530	5300
M535	5350
M540	5400
M545	5450
M550	5500
M555	5550
M560	5600
M565	5650
M570	5700
M575	5750
M580	5800
M585	5850
M590	5900
M595	5950
M600	6000
M605	6050
M610	6100
M615	6150
M620	6200
M625	6250
M630	6300
M635	6350
M640	6400
M645	6450
M650	6500
M655	6550
M660	6600
M665	6650
M670	6700
M675	6750
M680	6800
M685	6850
M690	6900
M695	6950
M700	7000
M705	7050
M710	7100
M715	7150
M720	7200
M725	7250
M730	7300
M735	7350
M740	7400
M745	7450
M750	7500
M755	7550
M760	7600
M765	7650
M770</	

C4 DEVELOPMENT LENGTH	
Bar No.	Length
GR006 8	10 12 16 20 25
M00	14.5 19 20 27.5 34.5 70.5
M05	13 10 10 24.5 710.5 37.5
M0	11.5 14.5 17.5 27 27.5 34.5



N. KARIKALAN, M.E. (Struct. Engng), MIE
CINDA Reg. No: SE/SGR/19303/02
Chartered Engineer (M-1646/SE/9)
No.15, Flar-B, Sri Ayyan Illam, 1st floor,
1st Street, Narasimman Nagar,
Rampuram, Chennai - 600 C39
Mobile : 98942 45633
Email: nkarikalan1986@gmail.com

		Ld - DEVELOPMENT LENGTH					
GRADE	Ø(mm)						
		8	10	12	16	20	25
M20	14.5"	19"	20"	27.5"	34.5"	37.5"	
M25	13"	18"	19"	24.5"	210.5"	37.5"	
M30	11.5"	14.5"	17.5"	23"	27.5"	38.5"	

DE-SHUTTERING PERIOD		MINIMUM DE-SHUTTERING PERIOD	
MEMBER	M40	ROOF SLAB	14 DAYS
	M25	LINTEL & SLAB EDGE	7 DAYS
	M30	COLUMN	24 HOURS

REINFORCED CEMENT CONCRETE/ROCC		MINIMUM CEMENT CONCENTN (kg/m3)		WATER/CEMENT RATIO	
GRADE OF CONCRETE	M40	300	0.55		
	M25	300	0.50		
	M30	320	0.48		

MEMBER MKD	CLEAR COVER
PILE PILE CAP	75 mm

BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
SLAB	20 mm OR BAR DIA WHICHEVER IS GREATER
4 MIN. GRADE OF CONCRETE FOR PILECAP SHALL BE M20 (MIN). MIN. GRADE OF CONCRETE FOR COLUMNS SHALL BE M25 (MIN). MIN. GRADE OF CONCRETE FOR JUNCTION AND SUNSHADE SHALL BE M20 (MIN). LAPS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50%.	

7 BOTTOM BARS IN BEAMS & SLABS SHALL BELAPPED ATEND ONE
8 THIRD SPAN
9 ALL HOOKS BENDS AND LAPS SHALL BE
10 BEAM COL. INTERSECTIONS UDS

0	ISSUED FOR APPROVAL				
---	---------------------	--	--	--	--

CLIENT :	M/S PRIYA CONSTRUCTION	CONSULTANT :	
----------	------------------------	--------------	--

PROJECT / PROPOSED RESIDENTIAL BUILDING AT MUGULVARKAM, CHENNAI	SUPPLIER/ CONTRACTOR :	TITLE:
CONCEPT AND		RESIDENTIAL BUILDING

SWIN	26 06 18	
JSA4		
WQD	26 06 18	
INCK		
WQD	26 06 18	
INCK		

DRAWING NO. A25035 - C - RB - 01 - NU - 0001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

By us to receive it nor be copied or otherwise made use either in full or in part by such person or body without our prior permission in writing.