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V.JAGEN
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CHARTERED ENGINEER, CONSULTANT
CIVIL & STRUCTURAL, APPROVED VALUER,
CMDA REGN NOS: SE / GR - I / 19 / 03 / 24 , QA / 19 / 04 / 21.
CORPORATION OF CHENNAI , REGN NO: RSE100172019.

FLAT NO:3B, RAMANIYAM GAURAVV 2
BLOCK-2, MODEL SCHOOL ROAD,
SHOLINGANALLUR, CHENNAI –107.
MOBILE : 98412 69154

24/02/2025

CERTIFICATE

IT IS CERTIFIED THAT THE PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600 020 COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK,GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173, IS DESIGNED TO RESIST EARTHQUAKE. CHECK HAS BEEN MADE AND FOUND SAFE AND I HEREBY CERTIFY THAT,

The minimum grade of concrete is M25.

1. The design and analysis using the code of practice for loading Standards as per IS-875 Part I to V and seismic force as per code IS 1893, is carried out.

   The building will be sound and stable when used for the purpose for which it is designed.

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THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600 020 COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK,GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO – 173.

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

Residential Apartment Building having Stilt + 5 Floors.
The design of this building is carried out based on frame analysis using STAAD PRO CONNECT EDITION.

1.2 CODES AND STANDARDS

All structural design is carried out conforming to the provisions in National Building Code of India and other relevant Indian Codes and Standards.

1. I.S. 456 - 2000
2. I.S. 875 - Part I to V
3. I.S.1893 - Part -1: 2016.
4. I.S.13920 : 2016.

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Residential Building

Self weight of slab	=	3 0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		7.0kN/m²

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3.0 SOIL DETAILS

Based on Soil Test Report Pile Foundation is adopted.

4.0 DESIGN METHODS

General design and detailing of concrete members/elements are done conforming to the provisions of I.S: 456 and other relevant I.S codes. Limit State method is followed for the design.

Seismic Zone III load is taken into account for the analysis. The predominant direction of vibration is horizontal. Relevant combination of forces has been taken into account. Ductile detailing of Reinforcement as per I.S.13920 - 2016 is considered.

4.1

Load Combination	Ultimate Limit Load	Serviceability Limit State
DL+LL+WL Or DL+LL+EL	1.2DL+1.2LL+1.2WL Or 1.2DL+1.2LL+1.2EL	DL+LL+WL Or DL+LL+EL

4.2.1 MINIMUM COVER

Slab	15 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

Structure will be sound and stable when used for the purpose for which it is designed.

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**************************************************
*                                                *
*          STAAD.Pro 2023                        *
*          Version  23.00.03.25                  *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    MAR 17, 2025                 *
*          Time=    13:57:17                     *
*                                                *
*  Licensed to: Ramaniyam Real Estates Pvt Ltd   *
**************************************************
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INPUT FILE: F:\Ramaniyam\Ramaniyam stadd\RRE STAAD 2025\Gandhi Nagar 4th main Road-Springs\Springs Fin.. .STD
    2. START JOB INFORMATION
    3. ENGINEER DATE 15-FEB-25
    4. *PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS
    5. *(HEIGHT-18.30M) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING
    6. *PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209,OLD DOOR NO.33,
    7. *NEW DOOR NO.81,4TH MAIN ROAD,GANDHI NAGAR, ADYAR, CHENNAI- 600020
    8. *COMPRISED IN OLD S.NO:9 PART, AS PER DOCUMENT AND T.S.NO.3 AS PER
    9. *PATTA, BLOCK NO.37 OF KOTTUR VILLAGE GUINDY TALUK, GREATER CHENNAI
   10. *CORPORATION, ZONE :XIII, DIVSION NO -173.
   11. END JOB INFORMATION
   12. INPUT WIDTH 79
   13. UNIT METER KN
   14. JOINT COORDINATES
   15. 1 0 0 0; 2 5.665 0 0; 3 10.845 0 0.245; 4 0 0 5.995; 5 5.665 0 5.995
   16. 6 10.845 0 5.995; 7 5.665 0 7.495; 8 0 0 13.74; 9 1.415 0 13.74
   17. 10 3.325 0 13.74; 11 5.665 0 13.74; 12 10.845 0 13.74; 13 -1.705 0 15.8
   18. 14 1.415 0 15.8; 15 3.325 0 15.8; 16 -1.825 0 17.335; 17 1.26 0 17.335
   19. 18 3.325 0 17.335; 19 6.815 0 17.335; 20 10.525 0 17.335; 21 -1.825 0 21.635
   20. 22 1.26 0 21.635; 23 4.765 0 22.725; 24 10.525 0 22.725; 25 4.765 0 26.125
   21. 26 -0.455 0 27.955; 27 4.765 0 27.955; 28 10.525 0 27.955; 29 -0.455 0 33.86
   22. 30 4.765 0 33.86; 31 10.525 0 33.86; 32 0 2.5 0; 33 5.665 2.5 0
   23. 34 10.845 2.5 0.245; 35 0 2.5 5.995; 36 5.665 2.5 5.995; 37 10.845 2.5 5.995
   24. 38 5.665 2.5 7.495; 39 0 2.5 13.74; 40 1.415 2.5 13.74; 41 3.325 2.5 13.74
   25. 42 5.665 2.5 13.74; 43 10.845 2.5 13.74; 44 -1.705 2.5 15.8; 45 1.415 2.5 15.8
   26. 46 3.325 2.5 15.8; 47 -1.825 2.5 17.335; 48 1.26 2.5 17.335
   27. 49 3.325 2.5 17.335; 50 6.815 2.5 17.335; 51 10.525 2.5 17.335
   28. 52 -1.825 2.5 21.635; 53 1.26 2.5 21.635; 54 4.765 2.5 22.725
   29. 55 10.525 2.5 22.725; 56 4.765 2.5 26.125; 57 -0.455 2.5 27.955
   30. 58 4.765 2.5 27.955; 59 10.525 2.5 27.955; 60 -0.455 2.5 33.86
   31. 61 4.765 2.5 33.86; 62 10.525 2.5 33.86; 63 0 5.6 0; 64 5.665 5.6 0
   32. 65 10.845 5.6 0.245; 66 0 5.6 5.995; 67 5.665 5.6 5.995; 68 10.845 5.6 5.995
   33. 69 5.665 5.6 7.495; 70 0 5.6 13.74; 71 1.415 5.6 13.74; 72 3.325 5.6 13.74
   34. 73 5.665 5.6 13.74; 74 10.845 5.6 13.74; 75 -1.705 5.6 15.8; 76 1.415 5.6 15.8
   35. 77 3.325 5.6 15.8; 78 -1.825 5.6 17.335; 79 1.26 5.6 17.335
   36. 80 3.325 5.6 17.335; 81 6.815 5.6 17.335; 82 10.525 5.6 17.335
   37. 83 -1.825 5.6 21.635; 84 1.26 5.6 21.635; 85 4.765 5.6 22.725
   38. 86 10.525 5.6 22.725; 87 4.765 5.6 26.125; 88 -0.455 5.6 27.955
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39. 89 4.765 5.6 27.955; 90 10.525 5.6 27.955; 91 -0.455 5.6 33.86
40. 92 4.765 5.6 33.86; 93 10.525 5.6 33.86; 94 5.665 5.6 0.245; 95 -1.525 5.6 0
41. 96 -1.525 5.6 5.995; 97 12.095 5.6 0.245; 98 12.095 5.6 5.995
42. 99 5.665 5.6 4.065; 100 12.095 5.6 4.065; 101 -1.525 5.6 4.065
43. 102 2.095 5.6 4.065; 103 2.095 5.6 0; 104 9.025 5.6 4.065; 105 9.025 5.6 0.245
44. 106 -0.955 5.6 5.995; 107 -0.955 5.6 4.065; 108 1.185 5.6 5.995
45. 109 1.185 5.6 4.065; 110 3.615 5.6 5.995; 111 3.615 5.6 4.065
46. 112 7.705 5.6 5.995; 113 7.705 5.6 4.065; 114 10.015 5.6 5.995
47. 115 10.015 5.6 4.065; 116 12.015 5.6 33.86; 117 -1.975 5.6 33.86
48. 118 12.015 5.6 27.955; 119 -1.975 5.6 27.955; 120 1.245 5.6 33.86
49. 121 1.245 5.6 27.955; 122 8.625 5.6 33.86; 123 8.625 5.6 27.955
50. 124 -1.975 5.6 29.73; 125 1.245 5.6 29.73; 126 4.765 5.6 29.73
51. 127 8.625 5.6 29.73; 128 12.015 5.6 29.73; 129 0.365 5.6 29.73
52. 130 0.365 5.6 27.955; 131 2.395 5.6 29.73; 132 2.395 5.6 27.955
53. 133 7.405 5.6 29.73; 134 7.405 5.6 27.955; 135 9.555 5.6 29.73
54. 136 9.555 5.6 27.955; 137 4.765 5.6 17.335; 138 -1.705 5.6 17.335
55. 139 -1.975 5.6 21.635; 140 -1.825 5.6 23.16; 141 1.26 5.6 23.16
56. 142 -1.975 5.6 23.16; 143 4.765 5.6 23.16; 144 -0.75 5.6 27.955
57. 145 -0.75 5.6 23.16; 146 2.395 5.6 23.16; 147 2.395 5.6 26.125
58. 148 3.765 5.6 27.955; 149 3.765 5.6 26.125; 150 5.795 5.6 27.955
59. 151 5.795 5.6 26.125; 152 7.405 5.6 22.725; 153 7.405 5.6 26.125
60. 154 8.625 5.6 22.725; 155 8.625 5.6 17.335; 156 12.095 5.6 22.725
61. 157 12.095 5.6 17.335; 158 12.015 5.6 22.725; 159 10.645 5.6 27.955
62. 160 10.645 5.6 22.725; 161 8.625 5.6 21.095; 162 12.095 5.6 21.095
63. 163 7.415 5.6 17.335; 164 7.415 5.6 13.74; 165 11.28 5.6 13.74
64. 166 11.28 5.6 17.335; 167 12.095 5.6 13.74; 168 9.275 5.6 13.74
65. 169 9.275 5.6 5.995; 170 9.275 5.6 10.205; 171 10.845 5.6 10.205
66. 172 12.095 5.6 10.205; 173 9.275 5.6 7.235; 174 10.845 5.6 7.235
67. 175 12.095 5.6 7.235; 176 9.275 5.6 7.495; 177 7.705 5.6 7.495
68. 178 0 5.6 12.175; 179 0 5.6 8.585; 180 -1.525 5.6 8.585; 181 -1.705 5.6 12.175
69. 182 -1.325 5.6 12.175; 183 -1.325 5.6 8.585; 184 1.415 5.6 5.995
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71. 188 1.98 5.6 5.995; 189 -1.325 5.6 10.565; 190 0 5.6 10.565
72. 191 1.415 5.6 10.565; 192 1.98 5.6 7.495; 193 3.615 5.6 7.495
73. 194 2.195 5.6 17.335; 195 2.195 5.6 15.8; 196 2.195 5.6 16.5675
74. 197 3.325 5.6 16.5675; 198 5.665 2.5 0.245; 199 -1.705 2.5 17.335
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78. 209 -0.455 2.5 21.635; 210 4.765 2.5 17.335; 211 4.765 2.5 21.635
79. 212 10.525 2.5 26.125; 213 -0.455 2.5 26.125; 214 11.28 2.5 17.335
80. 215 11.28 2.5 13.74; 216 -1.705 5.6 13.74; 217 0 8.7 0; 218 5.665 8.7 0
81. 219 10.845 8.7 0.245; 220 0 8.7 5.995; 221 5.665 8.7 5.995
82. 222 10.845 8.7 5.995; 223 5.665 8.7 7.495; 225 1.415 8.7 13.74
83. 226 3.325 8.7 13.74; 227 5.665 8.7 13.74; 228 10.845 8.7 13.74
84. 229 -1.705 8.7 15.8; 230 1.415 8.7 15.8; 231 3.325 8.7 15.8
85. 232 -1.825 8.7 17.335; 233 1.26 8.7 17.335; 234 3.325 8.7 17.335
86. 235 6.815 8.7 17.335; 236 10.525 8.7 17.335; 237 -1.825 8.7 21.635
87. 238 1.26 8.7 21.635; 239 4.765 8.7 22.725; 240 10.525 8.7 22.725
88. 241 4.765 8.7 26.125; 242 -0.455 8.7 27.955; 243 4.765 8.7 27.955
89. 244 10.525 8.7 27.955; 245 -0.455 8.7 33.86; 246 4.765 8.7 33.86
90. 247 10.525 8.7 33.86; 248 5.665 8.7 0.245; 249 -1.525 8.7 0
91. 250 -1.525 8.7 5.995; 251 12.095 8.7 0.245; 252 12.095 8.7 5.995
92. 253 5.665 8.7 4.065; 254 12.095 8.7 4.065; 255 -1.525 8.7 4.065
93. 256 2.095 8.7 4.065; 257 2.095 8.7 0; 258 9.025 8.7 4.065; 259 9.025 8.7 0.245
94. 260 -0.955 8.7 5.995; 261 -0.955 8.7 4.065; 262 1.185 8.7 5.995



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 95. 263 1.185 8.7 4.065; 264 3.615 8.7 5.995; 265 3.615 8.7 4.065
 96. 266 7.705 8.7 5.995; 267 7.705 8.7 4.065; 268 10.015 8.7 5.995
 97. 269 10.015 8.7 4.065; 270 12.015 8.7 33.86; 271 -1.975 8.7 33.86
 98. 272 12.015 8.7 27.955; 273 -1.975 8.7 27.955; 274 1.245 8.7 33.86
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101. 281 8.625 8.7 29.73; 282 12.015 8.7 29.73; 283 0.365 8.7 29.73
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105. 293 -1.975 8.7 21.635; 294 -1.825 8.7 23.16; 295 1.26 8.7 23.16
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113. 317 7.415 8.7 17.335; 318 7.415 8.7 13.74; 319 11.28 8.7 13.74
114. 320 11.28 8.7 17.335; 322 9.275 8.7 13.74; 323 9.275 8.7 5.995
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148. 425 8.625 11.8 27.955; 426 -1.975 11.8 29.73; 427 1.245 11.8 29.73
149. 428 4.765 11.8 29.73; 429 8.625 11.8 29.73; 430 12.015 11.8 29.73
150. 431 0.365 11.8 29.73; 432 0.365 11.8 27.955; 433 2.395 11.8 29.73
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151. 434 2.395 11.8 27.955; 435 7.405 11.8 29.73; 436 7.405 11.8 27.955
152. 437 9.555 11.8 29.73; 438 9.555 11.8 27.955; 439 4.765 11.8 17.335
153. 440 -1.705 11.8 17.335; 441 -1.975 11.8 21.635; 442 -1.825 11.8 23.16
154. 443 1.26 11.8 23.16; 444 -1.975 11.8 23.16; 445 4.765 11.8 23.16
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156. 449 2.395 11.8 26.125; 450 3.765 11.8 27.955; 451 3.765 11.8 26.125
157. 452 5.795 11.8 27.955; 453 5.795 11.8 26.125; 454 7.405 11.8 22.725
158. 455 7.405 11.8 26.125; 456 8.625 11.8 22.725; 457 8.625 11.8 17.335
159. 458 12.095 11.8 22.725; 459 12.095 11.8 17.335; 460 12.015 11.8 22.725
160. 461 10.645 11.8 27.955; 462 10.645 11.8 22.725; 463 8.625 11.8 21.095
161. 464 12.095 11.8 21.095; 465 7.415 11.8 17.335; 466 7.415 11.8 13.74
162. 467 11.28 11.8 13.74; 468 11.28 11.8 17.335; 469 9.275 11.8 13.74
163. 470 9.275 11.8 5.995; 471 9.275 11.8 10.205; 472 10.845 11.8 10.205
164. 473 12.095 11.8 10.205; 474 9.275 11.8 7.235; 475 10.845 11.8 7.235
165. 476 12.095 11.8 7.235; 477 9.275 11.8 7.495; 478 7.705 11.8 7.495
166. 479 0 11.8 12.175; 480 0 11.8 8.585; 481 -1.525 11.8 8.585
167. 482 -1.705 11.8 12.175; 483 -1.325 11.8 12.175; 484 -1.325 11.8 8.585
168. 485 1.415 11.8 5.995; 486 1.415 11.8 12.175; 487 1.415 11.8 8.585
169. 488 1.98 11.8 8.585; 489 1.98 11.8 5.995; 490 -1.325 11.8 10.565
170. 491 0 11.8 10.565; 492 1.415 11.8 10.565; 493 1.98 11.8 7.495
171. 494 3.615 11.8 7.495; 495 2.195 11.8 17.335; 496 2.195 11.8 15.8
172. 497 2.195 11.8 16.5675; 498 3.325 11.8 16.5675; 499 -1.705 11.8 13.74
173. 500 -0.315 11.8 8.585; 501 -0.315 11.8 5.995; 502 2.46 11.8 33.86
174. 503 2.46 11.8 29.73; 504 7.345 11.8 33.86; 505 7.345 11.8 29.73
175. 506 7.34 11.8 22.725; 508 7.34 11.8 17.335; 509 4.765 11.8 19.26
176. 512 1.26 11.8 19.26; 513 0 14.9 0; 514 5.665 14.9 0; 515 10.845 14.9 0.245
177. 516 0 14.9 5.995; 517 5.665 14.9 5.995; 518 10.845 14.9 5.995
178. 519 5.665 14.9 7.495; 520 1.415 14.9 13.74; 521 3.325 14.9 13.74
179. 522 5.665 14.9 13.74; 523 10.845 14.9 13.74; 524 -1.705 14.9 15.8
180. 525 1.415 14.9 15.8; 526 3.325 14.9 15.8; 527 -1.825 14.9 17.335
181. 528 1.26 14.9 17.335; 529 3.325 14.9 17.335; 530 6.815 14.9 17.335
182. 531 10.525 14.9 17.335; 532 -1.825 14.9 21.635; 533 1.26 14.9 21.635
183. 534 4.765 14.9 22.725; 535 10.525 14.9 22.725; 536 4.765 14.9 26.125
184. 537 -0.455 14.9 27.955; 538 4.765 14.9 27.955; 539 10.525 14.9 27.955
185. 540 -0.455 14.9 33.86; 541 4.765 14.9 33.86; 542 10.525 14.9 33.86
186. 543 5.665 14.9 0.245; 544 -1.525 14.9 0; 545 -1.525 14.9 5.995
187. 546 12.095 14.9 0.245; 547 12.095 14.9 5.995; 548 5.665 14.9 4.065
188. 549 12.095 14.9 4.065; 550 -1.525 14.9 4.065; 551 2.095 14.9 4.065
189. 552 2.095 14.9 0; 553 9.025 14.9 4.065; 554 9.025 14.9 0.245
190. 555 -0.955 14.9 5.995; 556 -0.955 14.9 4.065; 557 1.185 14.9 5.995
191. 558 1.185 14.9 4.065; 559 3.615 14.9 5.995; 560 3.615 14.9 4.065
192. 561 7.705 14.9 5.995; 562 7.705 14.9 4.065; 563 10.015 14.9 5.995
193. 564 10.015 14.9 4.065; 565 12.015 14.9 33.86; 566 -1.975 14.9 33.86
194. 567 12.015 14.9 27.955; 568 -1.975 14.9 27.955; 569 1.245 14.9 33.86
195. 570 1.245 14.9 27.955; 571 8.625 14.9 33.86; 572 8.625 14.9 27.955
196. 573 -1.975 14.9 29.73; 574 1.245 14.9 29.73; 575 4.765 14.9 29.73
197. 576 8.625 14.9 29.73; 577 12.015 14.9 29.73; 578 0.365 14.9 29.73
198. 579 0.365 14.9 27.955; 580 2.395 14.9 29.73; 581 2.395 14.9 27.955
199. 582 7.405 14.9 29.73; 583 7.405 14.9 27.955; 584 9.555 14.9 29.73
200. 585 9.555 14.9 27.955; 586 4.765 14.9 17.335; 587 -1.705 14.9 17.335
201. 588 -1.975 14.9 21.635; 589 -1.825 14.9 23.16; 590 1.26 14.9 23.16
202. 591 -1.975 14.9 23.16; 592 4.765 14.9 23.16; 593 -0.75 14.9 27.955
203. 594 -0.75 14.9 23.16; 595 2.395 14.9 23.16; 596 2.395 14.9 26.125
204. 597 3.765 14.9 27.955; 598 3.765 14.9 26.125; 599 5.795 14.9 27.955
205. 600 5.795 14.9 26.125; 601 7.405 14.9 22.725; 602 7.405 14.9 26.125
206. 603 8.625 14.9 22.725; 604 8.625 14.9 17.335; 605 12.095 14.9 22.725



V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

207. 606 12.095 14.9 17.335; 607 12.015 14.9 22.725; 608 10.645 14.9 27.955
208. 609 10.645 14.9 22.725; 610 8.625 14.9 21.095; 611 12.095 14.9 21.095
209. 612 7.415 14.9 17.335; 613 7.415 14.9 13.74; 614 11.28 14.9 13.74
210. 615 11.28 14.9 17.335; 616 9.275 14.9 13.74; 617 9.275 14.9 5.995
211. 618 9.275 14.9 10.205; 619 10.845 14.9 10.205; 620 12.095 14.9 10.205
212. 621 9.275 14.9 7.235; 622 10.845 14.9 7.235; 623 12.095 14.9 7.235
213. 624 9.275 14.9 7.495; 625 7.705 14.9 7.495; 626 0 14.9 12.175
214. 627 0 14.9 8.585; 628 -1.525 14.9 8.585; 629 -1.705 14.9 12.175
215. 630 -1.325 14.9 12.175; 631 -1.325 14.9 8.585; 632 1.415 14.9 5.995
216. 633 1.415 14.9 12.175; 634 1.415 14.9 8.585; 635 1.98 14.9 8.585
217. 636 1.98 14.9 5.995; 637 -1.325 14.9 10.565; 638 0 14.9 10.565
218. 639 1.415 14.9 10.565; 640 1.98 14.9 7.495; 641 3.615 14.9 7.495
219. 642 2.195 14.9 17.335; 643 2.195 14.9 15.8; 644 2.195 14.9 16.5675
220. 645 3.325 14.9 16.5675; 646 -1.705 14.9 13.74; 647 -0.315 14.9 8.585
221. 648 -0.315 14.9 5.995; 649 2.46 14.9 33.86; 650 2.46 14.9 29.73
222. 651 7.345 14.9 33.86; 652 7.345 14.9 29.73; 653 7.34 14.9 22.725
223. 654 7.34 14.9 17.335; 655 4.765 14.9 19.26; 656 1.26 14.9 19.26; 657 0 18 0
224. 658 5.665 18 0; 659 10.845 18 0.245; 660 0 18 5.995; 661 5.665 18 5.995
225. 662 10.845 18 5.995; 663 5.665 18 7.495; 664 1.415 18 13.74
226. 665 3.325 18 13.74; 666 5.665 18 13.74; 667 10.845 18 13.74
227. 668 -1.705 18 15.8; 669 1.415 18 15.8; 670 3.325 18 15.8; 671 -1.825 18 17.335
228. 672 1.26 18 17.335; 673 3.325 18 17.335; 674 6.815 18 17.335
229. 675 10.525 18 17.335; 676 -1.825 18 21.635; 677 1.26 18 21.635
230. 678 4.765 18 22.725; 679 10.525 18 22.725; 680 4.765 18 26.125
231. 681 -0.455 18 27.955; 682 4.765 18 27.955; 683 10.525 18 27.955
232. 684 -0.455 18 33.86; 685 4.765 18 33.86; 686 10.525 18 33.86
233. 687 5.665 18 0.245; 688 -1.525 18 0; 689 -1.525 18 5.995; 690 12.095 18 0.245
234. 691 12.095 18 5.995; 692 5.665 18 4.065; 693 12.095 18 4.065
235. 694 -1.525 18 4.065; 695 2.095 18 4.065; 696 2.095 18 0; 697 9.025 18 4.065
236. 698 9.025 18 0.245; 699 -0.955 18 5.995; 700 -0.955 18 4.065
237. 701 1.185 18 5.995; 702 1.185 18 4.065; 703 3.615 18 5.995; 704 3.615 18 4.065
238. 705 7.705 18 5.995; 706 7.705 18 4.065; 707 10.015 18 5.995
239. 708 10.015 18 4.065; 709 12.015 18 33.86; 710 -1.975 18 33.86
240. 711 12.015 18 27.955; 712 -1.975 18 27.955; 713 1.245 18 33.86
241. 714 1.245 18 27.955; 715 8.625 18 33.86; 716 8.625 18 27.955
242. 717 -1.975 18 29.73; 718 1.245 18 29.73; 719 4.765 18 29.73
243. 720 8.625 18 29.73; 721 12.015 18 29.73; 722 0.365 18 29.73
244. 723 0.365 18 27.955; 724 2.395 18 29.73; 725 2.395 18 27.955
245. 726 7.405 18 29.73; 727 7.405 18 27.955; 728 9.555 18 29.73
246. 729 9.555 18 27.955; 730 4.765 18 17.335; 731 -1.705 18 17.335
247. 732 -1.975 18 21.635; 733 -1.825 18 23.16; 734 1.26 18 23.16
248. 735 -1.975 18 23.16; 736 4.765 18 23.16; 737 -0.75 18 27.955
249. 738 -0.75 18 23.16; 739 2.395 18 23.16; 740 2.395 18 26.125
250. 741 3.765 18 27.955; 742 3.765 18 26.125; 743 5.795 18 27.955
251. 744 5.795 18 26.125; 745 7.405 18 22.725; 746 7.405 18 26.125
252. 747 8.625 18 22.725; 748 8.625 18 17.335; 749 12.095 18 22.725
253. 750 12.095 18 17.335; 751 12.015 18 22.725; 752 10.645 18 27.955
254. 753 10.645 18 22.725; 754 8.625 18 21.095; 755 12.095 18 21.095
255. 756 7.415 18 17.335; 757 7.415 18 13.74; 758 11.28 18 13.74
256. 759 11.28 18 17.335; 760 9.275 18 13.74; 761 9.275 18 5.995
257. 762 9.275 18 10.205; 763 10.845 18 10.205; 764 12.095 18 10.205
258. 765 9.275 18 7.235; 766 10.845 18 7.235; 767 12.095 18 7.235
259. 768 9.275 18 7.495; 769 7.705 18 7.495; 770 0 18 12.175; 771 0 18 8.585
260. 772 -1.525 18 8.585; 773 -1.705 18 12.175; 774 -1.325 18 12.175
261. 775 -1.325 18 8.585; 776 1.415 18 5.995; 777 1.415 18 12.175
262. 778 1.415 18 8.585; 779 1.98 18 8.585; 780 1.98 18 5.995; 781 -1.325 18 10.565

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

263. 782 0 18 10.565; 783 1.415 18 10.565; 784 1.98 18 7.495; 785 3.615 18 7.495
264. 786 2.195 18 17.335; 787 2.195 18 15.8; 788 2.195 18 16.5675
265. 789 3.325 18 16.5675; 790 -1.705 18 13.74; 791 -0.315 18 8.585
266. 792 -0.315 18 5.995; 793 2.46 18 33.86; 794 2.46 18 29.73; 795 7.345 18 33.86
267. 796 7.345 18 29.73; 797 7.34 18 22.725; 798 7.34 18 17.335; 799 4.765 18 19.26
268. 800 1.26 18 19.26; 801 0 21.1 0; 802 5.665 21.1 0; 803 10.845 21.1 0.245
269. 804 0 21.1 5.995; 805 5.665 21.1 5.995; 806 10.845 21.1 5.995
270. 807 5.665 21.1 7.495; 808 1.415 21.1 13.74; 809 3.325 21.1 13.74
271. 810 5.665 21.1 13.74; 811 10.845 21.1 13.74; 812 -1.705 21.1 15.8
272. 813 1.415 21.1 15.8; 814 3.325 21.1 15.8; 815 -1.825 21.1 17.335
273. 816 1.26 21.1 17.335; 817 3.325 21.1 17.335; 818 6.815 21.1 17.335
274. 819 10.525 21.1 17.335; 820 -1.825 21.1 21.635; 821 1.26 21.1 21.635
275. 822 4.765 21.1 22.725; 823 10.525 21.1 22.725; 824 4.765 21.1 26.125
276. 825 -0.455 21.1 27.955; 826 4.765 21.1 27.955; 827 10.525 21.1 27.955
277. 828 -0.455 21.1 33.86; 829 4.765 21.1 33.86; 830 10.525 21.1 33.86
278. 831 5.665 21.1 0.245; 832 -1.525 21.1 0; 833 -1.525 21.1 5.995
279. 834 12.095 21.1 0.245; 835 12.095 21.1 5.995; 836 5.665 21.1 4.065
280. 837 12.095 21.1 4.065; 838 -1.525 21.1 4.065; 839 2.095 21.1 4.065
281. 840 2.095 21.1 0; 841 9.025 21.1 4.065; 842 9.025 21.1 0.245
282. 843 -0.955 21.1 5.995; 844 -0.955 21.1 4.065; 845 1.185 21.1 5.995
283. 846 1.185 21.1 4.065; 847 3.615 21.1 5.995; 848 3.615 21.1 4.065
284. 849 7.705 21.1 5.995; 850 7.705 21.1 4.065; 851 10.015 21.1 5.995
285. 852 10.015 21.1 4.065; 853 12.015 21.1 33.86; 854 -1.975 21.1 33.86
286. 855 12.015 21.1 27.955; 856 -1.975 21.1 27.955; 857 1.245 21.1 33.86
287. 858 1.245 21.1 27.955; 859 8.625 21.1 33.86; 860 8.625 21.1 27.955
288. 861 -1.975 21.1 29.73; 862 1.245 21.1 29.73; 863 4.765 21.1 29.73
289. 864 8.625 21.1 29.73; 865 12.015 21.1 29.73; 866 0.365 21.1 29.73
290. 867 0.365 21.1 27.955; 868 2.395 21.1 29.73; 869 2.395 21.1 27.955
291. 870 7.405 21.1 29.73; 871 7.405 21.1 27.955; 872 9.555 21.1 29.73
292. 873 9.555 21.1 27.955; 874 4.765 21.1 17.335; 875 -1.705 21.1 17.335
293. 876 -1.975 21.1 21.635; 877 -1.825 21.1 23.16; 878 1.26 21.1 23.16
294. 879 -1.975 21.1 23.16; 880 4.765 21.1 23.16; 881 -0.75 21.1 27.955
295. 882 -0.75 21.1 23.16; 883 2.395 21.1 23.16; 884 2.395 21.1 26.125
296. 885 3.765 21.1 27.955; 886 3.765 21.1 26.125; 887 5.795 21.1 27.955
297. 888 5.795 21.1 26.125; 889 7.405 21.1 22.725; 890 7.405 21.1 26.125
298. 891 8.625 21.1 22.725; 892 8.625 21.1 17.335; 893 12.095 21.1 22.725
299. 894 12.095 21.1 17.335; 895 12.015 21.1 22.725; 896 10.645 21.1 27.955
300. 897 10.645 21.1 22.725; 898 8.625 21.1 21.095; 899 12.095 21.1 21.095
301. 900 7.415 21.1 17.335; 901 7.415 21.1 13.74; 902 11.28 21.1 13.74
302. 903 11.28 21.1 17.335; 904 9.275 21.1 13.74; 905 9.275 21.1 5.995
303. 906 9.275 21.1 10.205; 907 10.845 21.1 10.205; 908 12.095 21.1 10.205
304. 909 9.275 21.1 7.235; 910 10.845 21.1 7.235; 911 12.095 21.1 7.235
305. 912 9.275 21.1 7.495; 913 7.705 21.1 7.495; 914 0 21.1 12.175
306. 915 0 21.1 8.585; 916 -1.525 21.1 8.585; 917 -1.705 21.1 12.175
307. 918 -1.325 21.1 12.175; 919 -1.325 21.1 8.585; 920 1.415 21.1 5.995
308. 921 1.415 21.1 12.175; 922 1.415 21.1 8.585; 923 1.98 21.1 8.585
309. 924 1.98 21.1 5.995; 925 -1.325 21.1 10.565; 926 0 21.1 10.565
310. 927 1.415 21.1 10.565; 928 1.98 21.1 7.495; 929 3.615 21.1 7.495
311. 930 2.195 21.1 17.335; 931 2.195 21.1 15.8; 932 2.195 21.1 16.5675
312. 933 3.325 21.1 16.5675; 934 -1.705 21.1 13.74; 935 -0.315 21.1 8.585
313. 936 -0.315 21.1 5.995; 937 2.46 21.1 33.86; 938 2.46 21.1 29.73
314. 939 7.345 21.1 33.86; 940 7.345 21.1 29.73; 941 7.34 21.1 22.725
315. 942 7.34 21.1 17.335; 943 4.765 21.1 19.26; 944 1.26 21.1 19.26
316. 945 1.415 24.2 13.74; 946 3.325 24.2 13.74; 947 5.665 24.2 13.74
317. 948 10.845 24.2 13.74; 949 1.415 24.2 15.8; 950 3.325 24.2 15.8
318. 951 3.325 24.2 17.335; 952 6.815 24.2 17.335; 953 10.525 24.2 17.335

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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319. 954 4.765 24.2 17.335; 955 8.625 24.2 17.335; 956 7.415 24.2 17.335
320. 957 7.415 24.2 13.74; 958 11.28 24.2 13.74; 959 11.28 24.2 17.335
321. 960 9.275 24.2 13.74; 961 2.195 24.2 15.8; 962 3.325 24.2 16.5675
322. 963 7.34 24.2 17.335; 964 2.095 5.6 5.995; 965 9.025 5.6 5.995
323. 966 2.095 8.7 5.995; 967 9.025 8.7 5.995; 968 2.095 11.8 5.995
324. 969 9.025 11.8 5.995; 970 2.095 14.9 5.995; 971 9.025 14.9 5.995
325. 972 2.095 18 5.995; 973 9.025 18 5.995; 974 2.095 21.1 5.995
326. 975 9.025 21.1 5.995; 976 3.925 24.2 17.335; 979 3.925 24.2 13.74
327. 980 4.325 24.2 17.335; 981 4.325 24.2 16.5675; 982 4.325 24.2 15.8
328. 983 4.325 24.2 13.74; 984 10.525 24.2 13.74
329. MEMBER INCIDENCES
330. 1 1 32; 2 2 33; 3 3 34; 4 4 35; 5 5 36; 6 6 37; 7 7 38; 8 8 39; 9 9 40
331. 10 10 41; 11 11 42; 12 12 43; 13 13 44; 14 14 45; 15 15 46; 16 16 47; 17 17 48
332. 18 18 49; 19 19 50; 20 20 51; 21 21 52; 22 22 53; 23 23 54; 24 24 55; 25 25 56
333. 26 26 57; 27 27 58; 28 28 59; 29 29 60; 30 30 61; 31 31 62; 32 32 63; 33 33 64
334. 34 34 65; 35 35 66; 36 36 67; 37 37 68; 38 38 69; 39 39 70; 40 40 71; 41 41 72
335. 42 42 73; 43 43 74; 44 44 75; 45 45 76; 46 46 77; 47 47 78; 48 48 79; 49 49 80
336. 50 50 81; 51 51 82; 52 52 83; 53 53 84; 54 54 85; 55 55 86; 56 56 87; 57 57 88
337. 58 58 89; 59 59 90; 60 60 91; 61 61 92; 62 62 93; 63 63 103; 64 66 108
338. 65 67 112; 66 67 99; 68 94 64; 69 94 105; 70 95 63; 71 96 106; 72 96 101
339. 73 68 98; 74 65 97; 75 98 100; 76 99 94; 77 100 97; 78 99 113; 79 101 95
340. 80 101 107; 81 102 111; 82 103 64; 83 102 103; 84 104 115; 85 105 65
341. 86 104 105; 87 106 66; 88 107 109; 89 106 107; 90 108 184; 91 109 102
342. 92 108 109; 93 110 67; 94 111 99; 95 110 111; 96 112 965; 97 113 104
343. 98 112 113; 99 114 68; 100 115 100; 101 114 115; 102 73 69; 103 73 164
344. 104 71 72; 105 72 73; 106 70 178; 107 91 120; 108 92 122; 109 117 91
345. 110 93 116; 111 119 144; 112 88 130; 113 89 150; 114 90 159; 115 117 124
346. 116 116 128; 117 120 92; 118 121 132; 119 120 125; 120 92 126; 121 122 93
347. 122 123 136; 123 122 127; 124 124 119; 126 124 129; 127 126 89; 128 125 131
348. 130 126 133; 131 128 118; 132 127 135; 133 129 125; 134 130 121; 135 129 130
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353. 161 138 75; 162 139 83; 163 119 142; 164 140 145; 166 142 139; 167 142 140
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363. 222 175 98; 223 174 175; 224 176 173; 225 69 177; 226 177 176; 227 177 112
364. 228 178 190; 229 179 66; 230 180 183; 231 180 96; 232 181 182; 233 75 216
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366. 240 178 185; 242 179 186; 243 186 187; 244 188 964; 245 187 192; 246 189 183
367. 247 190 179; 248 189 190; 249 191 186; 250 190 191; 251 192 188; 252 192 193
368. 253 193 69; 254 193 110; 255 194 80; 256 195 77; 257 194 196; 258 196 195
369. 259 197 77; 260 196 197; 261 32 33; 262 36 198; 263 37 34; 264 36 37
370. 265 35 36; 266 35 32; 267 198 33; 268 198 34; 269 38 36; 270 42 207
371. 271 42 206; 272 43 208; 273 39 40; 274 40 41; 275 41 42; 276 39 35; 277 45 40
372. 278 45 204; 279 46 41; 280 50 205; 281 49 210; 282 48 203; 283 47 199
373. 284 199 202; 285 44 199; 286 44 201; 287 44 200; 288 200 39; 289 201 45
374. 290 202 48; 291 201 202; 292 49 46; 293 203 49; 294 204 46; 295 203 204
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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

375. 296 205 51; 297 206 43; 298 205 206; 299 207 38; 300 208 37; 301 207 208
376. 302 60 61; 303 61 62; 304 62 59; 305 59 212; 306 61 58; 307 58 56; 308 56 54
377. 309 60 57; 310 52 209; 311 209 53; 312 57 213; 313 210 50; 314 54 211
378. 315 211 210; 316 53 211; 317 53 48; 318 54 55; 319 55 51; 320 212 55
379. 321 56 212; 322 213 209; 323 213 56; 324 57 58; 325 58 59; 326 52 47
380. 327 51 214; 328 43 215; 329 214 215; 330 70 71; 331 216 181; 332 216 70
381. 333 63 217; 334 64 218; 335 65 219; 336 66 220; 337 67 221; 338 68 222
382. 339 69 223; 341 71 225; 342 72 226; 343 73 227; 344 74 228; 345 75 229
383. 346 76 230; 347 77 231; 348 78 232; 349 79 233; 350 80 234; 351 81 235
384. 352 82 236; 353 83 237; 354 84 238; 355 85 239; 356 86 240; 357 87 241
385. 358 88 242; 359 89 243; 360 90 244; 361 91 245; 362 92 246; 363 93 247
386. 364 217 257; 365 220 262; 366 221 266; 367 221 253; 368 248 218; 369 248 259
387. 370 249 217; 371 250 260; 372 250 255; 373 222 252; 374 219 251; 375 252 254
388. 376 253 248; 377 254 251; 378 253 267; 379 255 249; 380 255 261; 381 256 265
389. 382 257 218; 383 256 257; 384 258 269; 385 259 219; 386 258 259; 387 260 354
390. 388 261 263; 389 260 261; 390 262 338; 391 263 256; 392 262 263; 393 264 221
391. 394 265 253; 395 264 265; 396 266 967; 397 267 258; 398 266 267; 399 268 222
392. 400 269 254; 401 268 269; 402 227 223; 403 227 318; 404 225 226; 405 226 227
393. 407 245 274; 408 246 357; 409 271 245; 410 247 270; 411 273 298; 412 242 284
394. 413 243 304; 414 244 313; 415 271 278; 416 270 282; 417 274 355; 418 275 286
395. 419 274 279; 420 246 280; 421 276 247; 422 277 290; 423 276 281; 424 278 273
396. 425 278 283; 426 280 243; 427 279 285; 428 280 358; 429 282 272; 430 281 289
397. 431 283 279; 432 284 275; 433 283 284; 434 285 356; 435 286 302; 436 285 286
398. 437 287 281; 438 288 277; 440 289 282; 441 290 244; 442 289 290; 443 241 297
399. 444 233 348; 445 232 292; 446 234 291; 447 235 361; 448 291 235; 449 239 362
400. 450 237 238; 451 237 232; 452 238 365; 453 230 349; 454 230 225; 455 231 226
401. 456 234 351; 457 229 230; 458 292 233; 459 292 229; 460 293 237; 461 273 296
402. 462 294 299; 463 296 293; 464 296 294; 465 297 239; 466 295 300; 467 295 238
403. 468 298 242; 469 299 295; 470 298 299; 471 300 297; 472 286 301; 473 301 300
404. 474 301 303; 475 302 243; 476 303 241; 477 302 303; 478 239 359; 479 304 288
405. 480 304 305; 481 306 308; 482 288 307; 483 307 306; 484 241 307; 485 308 240
406. 486 309 236; 487 308 315; 488 310 316; 489 236 320; 490 240 314; 491 312 310
407. 492 272 312; 493 313 272; 494 314 312; 495 313 314; 496 315 309; 497 316 311
408. 498 315 316; 499 317 309; 500 318 322; 501 317 318; 502 228 325; 503 228 319
409. 504 320 311; 505 320 319; 507 322 228; 508 323 268; 509 322 324; 511 324 330
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411. 520 328 329; 521 330 327; 522 223 331; 523 331 330; 524 331 266; 527 334 337
412. 528 334 250; 529 335 336; 530 229 352; 531 336 332; 532 337 353; 533 336 343
413. 534 338 342; 535 225 339; 536 339 345; 537 332 339; 538 333 340; 539 340 341
414. 540 342 966; 541 341 346; 542 343 337; 544 343 344; 545 345 340; 546 344 345
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416. 553 348 350; 554 350 349; 555 351 231; 556 350 351; 558 352 335; 559 353 333
417. 560 354 220; 561 353 354; 562 355 246; 563 356 280; 564 355 356; 565 357 276
418. 566 358 287; 567 357 358; 568 359 306; 569 359 360; 570 361 317; 571 360 364
419. 572 362 291; 573 362 363; 574 364 361; 575 363 364; 576 365 233; 577 365 362
420. 578 179 333; 579 178 332; 580 217 366; 581 218 367; 582 219 368; 583 220 369
421. 584 221 370; 585 222 371; 586 223 372; 587 225 373; 588 226 374; 589 227 375
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425. 608 246 394; 609 247 395; 610 366 405; 611 369 410; 612 370 414; 613 370 401
426. 614 396 367; 615 396 407; 616 397 366; 617 398 408; 618 398 403; 619 371 400
427. 620 368 399; 621 400 402; 622 401 396; 623 402 399; 624 401 415; 625 403 397
428. 626 403 409; 627 404 413; 628 405 367; 629 404 405; 630 406 417; 631 407 368
429. 632 406 407; 633 408 501; 634 409 411; 635 408 409; 636 410 485; 637 411 404
430. 638 410 411; 639 412 370; 640 413 401; 641 412 413; 642 414 969; 643 415 406

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

431. 644 414 415; 645 416 371; 646 417 402; 647 416 417; 648 375 372; 649 375 466
432. 650 373 374; 651 374 375; 652 393 422; 653 394 504; 654 419 393; 655 395 418
433. 656 421 446; 657 390 432; 658 391 452; 659 392 461; 660 419 426; 661 418 430
434. 662 422 502; 663 423 434; 664 422 427; 665 394 428; 666 424 395; 667 425 438
435. 668 424 429; 669 426 421; 670 426 431; 671 428 391; 672 427 433; 673 428 505
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437. 680 434 450; 681 433 434; 682 435 429; 683 436 425; 684 437 430; 685 438 392
438. 686 437 438; 687 389 445; 688 381 495; 689 380 440; 690 382 439; 691 383 508
439. 692 439 383; 693 387 509; 694 385 386; 695 385 380; 696 386 512; 697 378 496
440. 698 378 373; 699 379 374; 700 382 498; 701 377 378; 702 440 381; 703 440 377
441. 704 441 385; 705 421 444; 706 442 447; 707 444 441; 708 444 442; 709 445 387
442. 710 443 448; 711 443 386; 712 446 390; 713 447 443; 714 446 447; 715 448 445
443. 716 434 449; 717 449 448; 718 449 451; 719 450 391; 720 451 389; 721 450 451
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446. 734 388 462; 735 460 458; 736 420 460; 737 461 420; 738 462 460; 739 461 462
447. 740 463 457; 741 464 459; 742 463 464; 743 465 457; 744 466 469; 745 465 466
448. 746 376 472; 747 376 467; 748 468 459; 749 468 467; 750 469 376; 751 470 416
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450. 758 474 475; 759 476 400; 760 475 476; 761 477 474; 762 372 478; 763 478 477
451. 764 478 414; 765 481 484; 766 481 398; 767 482 483; 768 377 499; 769 483 479
452. 770 484 500; 771 483 490; 772 485 489; 773 373 486; 774 486 492; 775 479 486
453. 776 480 487; 777 487 488; 778 489 968; 779 488 493; 780 490 484; 781 490 491
454. 782 492 487; 783 491 492; 784 493 489; 785 493 494; 786 494 372; 787 494 412
455. 788 495 382; 789 496 379; 790 495 497; 791 497 496; 792 498 379; 793 497 498
456. 794 499 482; 795 500 480; 796 501 369; 797 500 501; 798 502 394; 799 503 428
457. 801 504 424; 802 505 435; 804 506 454; 806 508 465; 808 509 439; 812 512 381
458. 814 333 480; 815 332 479; 816 435 436; 817 366 513; 818 367 514; 819 368 515
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465. 856 518 547; 857 515 546; 858 547 549; 859 548 543; 860 549 546; 861 548 562
466. 862 550 544; 863 550 556; 864 551 560; 865 552 514; 866 551 552; 867 553 564
467. 868 554 515; 869 553 554; 870 555 648; 871 556 558; 872 555 556; 873 557 632
468. 874 558 551; 875 557 558; 876 559 517; 877 560 548; 878 559 560; 879 561 971
469. 880 562 553; 881 561 562; 882 563 518; 883 564 549; 884 563 564; 885 522 519
470. 886 522 613; 887 520 521; 888 521 522; 889 540 569; 890 541 651; 891 566 540
471. 892 542 565; 893 568 593; 894 537 579; 895 538 599; 896 539 608; 897 566 573
472. 898 565 577; 899 569 649; 900 570 581; 901 569 574; 902 541 575; 903 571 542
473. 904 572 585; 905 571 576; 906 573 568; 907 573 578; 908 575 538; 909 574 580
474. 910 575 652; 911 577 567; 912 576 584; 913 578 574; 914 579 570; 915 578 579
475. 916 580 650; 917 581 597; 918 580 581; 919 582 576; 920 583 572; 921 584 577
476. 922 585 539; 923 584 585; 924 536 592; 925 528 642; 926 527 587; 927 529 586
477. 928 530 654; 929 586 530; 930 534 655; 931 532 533; 932 532 527; 933 533 656
478. 934 525 643; 935 525 520; 936 526 521; 937 529 645; 938 524 525; 939 587 528
479. 940 587 524; 941 588 532; 942 568 591; 943 589 594; 944 591 588; 945 591 589
480. 946 592 534; 947 590 595; 948 590 533; 949 593 537; 950 594 590; 951 593 594
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482. 958 597 598; 959 534 653; 960 599 583; 961 599 600; 962 601 603; 963 583 602
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484. 970 531 615; 971 535 609; 972 607 605; 973 567 607; 974 608 567; 975 609 607
485. 976 608 609; 977 610 604; 978 611 606; 979 610 611; 980 612 604; 981 613 616
486. 982 612 613; 983 523 619; 984 523 614; 985 615 606; 986 615 614; 987 616 523

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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

487. 988 617 563; 989 616 618; 990 618 624; 991 618 619; 992 620 623; 993 619 620
488. 994 621 617; 995 621 622; 996 623 547; 997 622 623; 998 624 621; 999 519 625
489. 1000 625 624; 1001 625 561; 1002 628 631; 1003 628 545; 1004 629 630
490. 1005 524 646; 1006 630 626; 1007 631 647; 1008 630 637; 1009 632 636
491. 1010 520 633; 1011 633 639; 1012 626 633; 1013 627 634; 1014 634 635
492. 1015 636 970; 1016 635 640; 1017 637 631; 1018 637 638; 1019 639 634
493. 1020 638 639; 1021 640 636; 1022 640 641; 1023 641 519; 1024 641 559
494. 1025 642 529; 1026 643 526; 1027 642 644; 1028 644 643; 1029 645 526
495. 1030 644 645; 1031 646 629; 1032 647 627; 1033 648 516; 1034 647 648
496. 1035 649 541; 1036 650 575; 1037 651 571; 1038 652 582; 1039 653 601
497. 1040 654 612; 1041 655 586; 1042 656 528; 1043 480 627; 1044 479 626
498. 1045 582 583; 1046 513 657; 1047 514 658; 1048 515 659; 1049 516 660
499. 1050 517 661; 1051 518 662; 1052 519 663; 1053 520 664; 1054 521 665
500. 1055 522 666; 1056 523 667; 1057 524 668; 1058 525 669; 1059 526 670
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502. 1065 532 676; 1066 533 677; 1067 534 678; 1068 535 679; 1069 536 680
503. 1070 537 681; 1071 538 682; 1072 539 683; 1073 540 684; 1074 541 685
504. 1075 542 686; 1076 657 696; 1077 660 701; 1078 661 705; 1079 661 692
505. 1080 687 658; 1081 687 698; 1082 688 657; 1083 689 699; 1084 689 694
506. 1085 662 691; 1086 659 690; 1087 691 693; 1088 692 687; 1089 693 690
507. 1090 692 706; 1091 694 688; 1092 694 700; 1093 695 704; 1094 696 658
508. 1095 695 696; 1096 697 708; 1097 698 659; 1098 697 698; 1099 699 792
509. 1100 700 702; 1101 699 700; 1102 701 776; 1103 702 695; 1104 701 702
510. 1105 703 661; 1106 704 692; 1107 703 704; 1108 705 973; 1109 706 697
511. 1110 705 706; 1111 707 662; 1112 708 693; 1113 707 708; 1114 666 663
512. 1115 666 757; 1116 664 665; 1117 665 666; 1118 684 713; 1119 685 795
513. 1120 710 684; 1121 686 709; 1122 712 737; 1123 681 723; 1124 682 743
514. 1125 683 752; 1126 710 717; 1127 709 721; 1128 713 793; 1129 714 725
515. 1130 713 718; 1131 685 719; 1132 715 686; 1133 716 729; 1134 715 720
516. 1135 717 712; 1136 717 722; 1137 719 682; 1138 718 724; 1139 719 796
517. 1140 721 711; 1141 720 728; 1142 722 718; 1143 723 714; 1144 722 723
518. 1145 724 794; 1146 725 741; 1147 724 725; 1148 726 720; 1149 727 716
519. 1150 728 721; 1151 729 683; 1152 728 729; 1153 680 736; 1154 672 786
520. 1155 671 731; 1156 673 730; 1157 674 798; 1158 730 674; 1159 678 799
521. 1160 676 677; 1161 676 671; 1162 677 800; 1163 669 787; 1164 669 664
522. 1165 670 665; 1166 673 789; 1167 668 669; 1168 731 672; 1169 731 668
523. 1170 732 676; 1171 712 735; 1172 733 738; 1173 735 732; 1174 735 733
524. 1175 736 678; 1176 734 739; 1177 734 677; 1178 737 681; 1179 738 734
525. 1180 737 738; 1181 739 736; 1182 725 740; 1183 740 739; 1184 740 742
526. 1185 741 682; 1186 742 680; 1187 741 742; 1188 678 797; 1189 743 727
527. 1190 743 744; 1191 745 747; 1192 727 746; 1193 746 745; 1194 680 746
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534. 1225 767 691; 1226 766 767; 1227 768 765; 1228 663 769; 1229 769 768
535. 1230 769 705; 1231 772 775; 1232 772 689; 1233 773 774; 1234 668 790
536. 1235 774 770; 1236 775 791; 1237 774 781; 1238 776 780; 1239 664 777
537. 1240 777 783; 1241 770 777; 1242 771 778; 1243 778 779; 1244 780 972
538. 1245 779 784; 1246 781 775; 1247 781 782; 1248 783 778; 1249 782 783
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540. 1255 787 670; 1256 786 788; 1257 788 787; 1258 789 670; 1259 788 789
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542. 1265 794 719; 1266 795 715; 1267 796 726; 1268 797 745; 1269 798 756

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

543. 1270 799 730; 1271 800 672; 1272 627 771; 1273 626 770; 1274 726 727
544. 1275 657 801; 1276 658 802; 1277 659 803; 1278 660 804; 1279 661 805
545. 1280 662 806; 1281 663 807; 1282 664 808; 1283 665 809; 1284 666 810
546. 1285 667 811; 1286 668 812; 1287 669 813; 1288 670 814; 1289 671 815
547. 1290 672 816; 1291 673 817; 1292 674 818; 1293 675 819; 1294 676 820
548. 1295 677 821; 1296 678 822; 1297 679 823; 1298 680 824; 1299 681 825
549. 1300 682 826; 1301 683 827; 1302 684 828; 1303 685 829; 1304 686 830
550. 1305 801 840; 1306 804 845; 1307 805 849; 1308 805 836; 1309 831 802
551. 1310 831 842; 1311 832 801; 1312 833 843; 1313 833 838; 1314 806 835
552. 1315 803 834; 1316 835 837; 1317 836 831; 1318 837 834; 1319 836 850
553. 1320 838 832; 1321 838 844; 1322 839 848; 1323 840 802; 1324 839 840
554. 1325 841 852; 1326 842 803; 1327 841 842; 1328 843 936; 1329 844 846
555. 1330 843 844; 1331 845 920; 1332 846 839; 1333 845 846; 1334 847 805
556. 1335 848 836; 1336 847 848; 1337 849 975; 1338 850 841; 1339 849 850
557. 1340 851 806; 1341 852 837; 1342 851 852; 1343 810 807; 1344 810 901
558. 1345 808 809; 1346 809 810; 1347 828 857; 1348 829 939; 1349 854 828
559. 1350 830 853; 1351 856 881; 1352 825 867; 1353 826 887; 1354 827 896
560. 1355 854 861; 1356 853 865; 1357 857 937; 1358 858 869; 1359 857 862
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562. 1365 861 866; 1366 863 826; 1367 862 868; 1368 863 940; 1369 865 855
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568. 1395 817 933; 1396 812 813; 1397 875 816; 1398 875 812; 1399 876 820
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593. 1520 949 945; 1521 950 946; 1522 951 962; 1523 955 953; 1524 953 959
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595. 1531 961 950; 1532 962 950; 1533 963 956; 1534 964 110; 1535 964 102
596. 1536 965 169; 1537 965 104; 1538 125 121; 1539 127 123; 1540 966 264
597. 1541 967 323; 1542 966 256; 1543 967 258; 1544 279 275; 1545 281 277
598. 1546 968 412; 1547 969 470; 1548 968 404; 1549 969 406; 1550 427 423



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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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599. 1551 429 425; 1552 970 559; 1553 971 617; 1554 970 551; 1555 971 553
600. 1556 574 570; 1557 576 572; 1558 972 703; 1559 973 761; 1560 972 695
601. 1561 973 697; 1562 718 714; 1563 720 716; 1564 974 847; 1565 975 905
602. 1566 974 839; 1567 975 841; 1568 862 858; 1569 864 860; 1570 976 980
603. 1573 979 983; 1574 980 954; 1575 980 981; 1576 981 982; 1577 983 947
604. 1578 982 983; 1579 984 948; 1580 953 984; 1581 171 325; 1582 325 472
605. 1583 472 619; 1584 619 763; 1585 763 907
606. START GROUP DEFINITION
607. FLOOR
608. _WT 1513 1517 1518 1523 1525 1526 1530 1533 1574 TO 1578 1580
609. END GROUP DEFINITION
610. DEFINE MATERIAL START
611. ISOTROPIC CONCRETE
612. E 2.17185E+07
613. POISSON 0.17
614. DENSITY 23.5616
615. ALPHA 1E-05
616. DAMP 0.05
617. G 9.28139E+06
618. TYPE CONCRETE
619. STRENGTH FCU 27579
620. END DEFINE MATERIAL
621. MEMBER PROPERTY
622. 63 TO 66 68 TO 71 73 74 76 82 83 85 TO 87 90 93 96 99 103 107 TO 114 -
623. 117 TO 119 121 TO 123 134 137 140 143 145 149 152 162 164 167 TO 172 174 -
624. 178 181 182 184 188 189 192 TO 194 196 197 202 203 206 207 209 TO 211 213 -
625. 216 218 230 232 234 235 237 240 242 TO 244 261 TO 329 364 TO 371 373 374 -
626. 376 382 385 387 390 393 396 399 403 407 TO 414 417 418 421 422 432 435 438 -
627. 441 443 447 450 460 462 464 TO 469 471 475 478 479 481 485 486 489 TO 491 -
628. 493 494 499 500 503 504 507 508 513 515 527 529 531 532 534 TO 540 545 559 -
629. 560 562 565 568 570 610 TO 617 619 620 622 628 631 633 636 639 642 645 649 -
630. 652 TO 659 662 663 666 667 677 680 683 685 687 691 694 704 706 708 TO 713 -
631. 715 719 722 723 725 729 730 733 TO 735 737 738 743 744 747 748 750 751 754 -
632. 756 765 767 769 770 772 TO 778 782 795 796 798 801 804 806 847 TO 854 856 -
633. 857 859 865 868 870 873 876 879 882 886 889 TO 896 899 900 903 904 914 917 -
634. 920 922 924 928 931 941 943 945 TO 950 952 956 959 960 962 966 967 -
635. 970 TO 972 974 975 980 981 984 985 987 988 991 993 1002 1004 1006 1007 1009 -
636. 1010 TO 1015 1019 1032 1033 1035 1037 1039 1040 1076 TO 1083 1085 -
637. 1086  PRIS YD 0.6 ZD 0.23
638. 1088 1094 1097 1099 1102 1105 1108 1111 1115 1118 TO 1125 1128 1129 1132 -
639. 1133 1143 1146 1149 1151 1153 1157 1160 1170 1172 1174 TO 1179 1181 1185 -
640. 1188 1189 1191 1195 1196 1199 TO 1201 1203 1204 1209 1210 1213 1214 1216 -
641. 1217 1220 1222 1231 1233 1235 1236 1238 TO 1244 1248 1261 1262 1264 1266 -
642. 1268 1269 1305 TO 1312 1314 1315 1317 1323 1326 1328 1331 1334 1337 1340 -
643. 1344 1347 TO 1354 1357 1358 1361 1362 1372 1375 1378 1380 1382 1386 1389 -
644. 1399 1401 1403 TO 1408 1410 1414 1417 1418 1420 1424 1425 1428 TO 1430 1432 -
645. 1433 1438 1439 1442 1443 1445 1446 1449 1451 1460 1462 1464 1465 -
646. 1467 TO 1473 1477 1490 1491 1493 1495 1497 1498 1513 1517 1523 TO 1526 1528 -
647. 1530 1533 TO 1569 1579 PRIS YD 0.6 ZD 0.23
648. 72 75 77 TO 81 84 88 89 91 92 94 95 97 98 100 TO 102 104 105 115 116 120 124 -
649. 126 TO 128 130 TO 133 135 136 138 139 141 142 144 146 TO 148 150 151 153 -
650. 154 TO 161 163 166 173 175 TO 177 179 180 183 185 TO 187 190 191 195 -
651. 198 TO 201 204 208 212 214 217 219 221 TO 227 231 233 236 238 239 245 246 -
652. 248 TO 260 330 TO 332 372 375 377 TO 381 383 384 386 388 389 391 392 394 -
653. 395 397 398 400 TO 402 404 405 415 416 419 420 424 TO 431 433 434 436 437 -
654. 440 442 444 TO 446 448 449 451 TO 459 461 463 470 472 TO 474 476 477 480 -
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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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655. 482 TO 484 487 488 492 495 TO 498 501 502 505 509 511 514 516 518 TO 524 -
656. 528 530 533 541 542 544 546 TO 556 558 561 563 566 567 572 576 618 621 623 -
657. 624 TO 627 629 630 632 634 635 637 638 640 641 643 644 646 TO 648 650 651 -
658. 660 661 664 665 669 TO 676 678 679 681 682 684 686 688 TO 690 692 693 695 -
659. 696 TO 703 705 707 714 716 TO 718 720 721 724 726 TO 728 731 732 736 -
660. 739 TO 742 745 746 749 752 753 755 757 TO 764 766 768 771 779 TO 781 783 -
661. 784 TO 794 797 799 802 808 812 816 855 858 860 TO 864 866 867 869 871 872 -
662. 874 875 877 878 880 881 883 TO 885 887 888 897 898 901 902 -
663. 906  PRIS YD 0.45 ZD 0.23
664. 1578 1580 PRIS YD 0.45 ZD 0.23
665. 907 TO 913 915 916 918 919 921 923 925 TO 927 929 930 932 TO 940 942 944 951 -
666. 953 TO 955 957 958 961 963 TO 965 968 969 973 976 TO 979 982 983 986 989 -
667. 990 992 994 TO 1001 1003 1005 1008 1016 TO 1018 1020 TO 1031 1034 1036 1038 -
668. 1041 1042 1045 1084 1087 1089 TO 1093 1095 1096 1098 1100 1101 1103 1104 -
669. 1106 1107 1109 1110 1112 TO 1114 1116 1117 1126 1127 1130 1131 1135 TO 1142 -
670. 1144 1145 1147 1148 1150 1152 1154 TO 1156 1158 1159 1161 TO 1169 1171 1173 -
671. 1180 1182 TO 1184 1186 1187 1190 1192 TO 1194 1197 1198 1202 1205 TO 1208 -
672. 1211 1212 1215 1218 1219 1221 1223 TO 1230 1232 1234 1237 1245 TO 1247 1249 -
673. 1250 TO 1260 1263 1265 1267 1270 1271 1274 1313 1316 1318 TO 1322 1324 1325 -
674. 1327 1329 1330 1332 1333 1335 1336 1338 1339 1341 TO 1343 1345 1346 1355 -
675. 1356 1359 1360 1364 TO 1371 1373 1374 1376 1377 1379 1381 1383 TO 1385 1387 -
676. 1388 1390 TO 1398 1400 1402 1409 1411 TO 1413 1415 1416 1419 1421 TO 1423 -
677. 1426 1427 1431 1434 TO 1437 1440 1441 1444 1447 1448 1450 1452 TO 1459 1461 -
678. 1463 1466 1474 TO 1476 1478 TO 1489 1492 1494 1496 1499 1500 1503 -
679. 1514 TO 1516 1518 TO 1522 1529 1531 1532 1570 1573 TO 1576 -
680. 1577 PRIS YD 0.45 ZD 0.23
681. 106 205 215 220 228 229 247 PRIS YD 0.8 ZD 0.8
682. 423 564 569 571 573 TO 575 577 668 905 1134 1363 PRIS YD 0.15 ZD 0.23
683. 1 3 11 18 TO 22 24 26 28 29 31 32 34 42 49 TO 53 55 57 59 60 62 333 335 336 -
684. 338 343 344 350 TO 354 356 358 360 361 363 580 582 583 585 589 590 -
685. 596 TO 600 602 604 606 607 609 817 819 820 822 826 827 833 TO 837 839 841 -
686. 843 844 846 1046 1048 1049 1051 1055 1056 1062 TO 1066 1068 1070 1072 1073 -
687. 1075 1275 1277 1278 1280 1284 1285 1291 TO 1295 1297 1299 1301 1302 1304 -
688. 1506 1507 1510 TO 1512 PRIS YD 0.6 ZD 0.23
689. 2 5 7 23 25 27 30 33 36 38 54 56 58 61 334 337 339 355 357 359 362 581 584 -
690. 586 601 603 605 608 818 821 823 838 840 842 845 1047 1050 1052 1067 1069 -
691. 1071 1074 1276 1279 1281 1296 1298 1300 1303 PRIS YD 0.23 ZD 0.6
692. 9 10 13 TO 17 40 41 44 TO 48 341 342 345 TO 349 578 579 587 588 591 TO 595 -
693. 814 815 824 825 828 TO 832 1043 1044 1053 1054 1057 TO 1061 1272 1273 1282 -
694. 1283 1286 TO 1290 1501 1502 1504 1505 1508 1509 1581 TO 1584 -
695. 1585 PRIS YD 0.45 ZD 0.23
696. 4 6 8 12 35 37 39 43 PRIS YD 0.6 ZD 0.38
697. CONSTANTS
698. MATERIAL CONCRETE ALL
699. SUPPORTS
700. 1 TO 31 FIXED
701. CUT OFF MODE SHAPE 18
702. DEFINE REFERENCE LOADS
703. LOAD R1 LOADTYPE MASS  TITLE REF MASS MODEL
704. MEMBER LOAD
705. 64 65 73 78 81 83 86 TO 88 90 92 TO 95 98 TO 101 112 113 119 123 126 130 135 -
706. 136 TO 138 141 TO 144 152 154 169 170 172 174 175 177 TO 185 187 188 190 199 -
707. 201 211 221 223 225 227 234 237 240 243 245 251 253 254 257 258 260 365 372 -
708. 373 378 381 383 386 TO 388 390 394 396 399 TO 401 412 414 422 425 427 428 -
709. 430 433 435 436 438 440 TO 442 450 452 468 482 483 498 502 508 518 520 531 -
710. 534 TO 537 540 553 554 556 560 561 563 564 567 569 571 573 TO 577 611 619 -
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711. 624 629 632 TO 634 636 638 640 641 644 TO 647 657 664 668 670 673 680 681 -
712. 684 685 694 696 704 713 715 TO 718 722 723 726 729 740 742 751 757 758 760 -
713. 769 772 774 775 777 779 784 788 790 791 793 796 797 799 812 816 848 856 861 -
714. 866 869 TO 871 873 875 877 878 881 TO 884 894 901 905 907 910 917 918 921 -
715. 922 931 933 941 950 952 TO 955 959 960 963 966 977 979 988 994 995 997 1006 -
716. 1009 1011 1012 1014 1016 1021 1025 1027 1028 1030 1033 1034 1036 1042 1045 -
717. 1077 1085 1090 1095 1098 TO 1100 1102 1104 1106 1107 1110 TO 1113 1123 1130 -
718. 1134 1136 1139 1146 1147 1150 1151 1160 1162 1170 1179 1181 TO 1184 1188 -
719. 1189 1192 1195 1206 1208 1217 1223 1224 1226 1235 1238 1240 1241 1243 1245 -
720. 1250 1254 1256 1257 1259 1262 UNI GX 5
721. 64 65 73 78 81 83 86 TO 88 90 92 TO 95 98 TO 101 112 113 119 123 126 130 135 -
722. 136 TO 138 141 TO 144 152 154 169 170 172 174 175 177 TO 185 187 188 190 199 -
723. 201 211 221 223 225 227 234 237 240 243 245 251 253 254 257 258 260 365 372 -
724. 373 378 381 383 386 TO 388 390 394 396 399 TO 401 412 414 422 425 427 428 -
725. 430 433 435 436 438 440 TO 442 450 452 468 482 483 498 502 508 518 520 531 -
726. 534 TO 537 540 553 554 556 560 561 563 564 567 569 571 573 TO 577 611 619 -
727. 624 629 632 TO 634 636 638 640 641 644 TO 647 657 664 668 670 673 680 681 -
728. 684 685 694 696 704 713 715 TO 718 722 723 726 729 740 742 751 757 758 760 -
729. 769 772 774 775 777 779 784 788 790 791 793 796 797 799 812 816 848 856 861 -
730. 866 869 TO 871 873 875 877 878 881 TO 884 894 901 905 907 910 917 918 921 -
731. 922 931 933 941 950 952 TO 955 959 960 963 966 977 979 988 994 995 997 1006 -
732. 1009 1011 1012 1014 1016 1021 1025 1027 1028 1030 1033 1034 1036 1042 1045 -
733. 1077 1085 1090 1095 1098 TO 1100 1102 1104 1106 1107 1110 TO 1113 1123 1130 -
734. 1134 1136 1139 1146 1147 1150 1151 1160 1162 1170 1179 1181 TO 1184 1188 -
735. 1189 1192 1195 1206 1208 1217 1223 1224 1226 1235 1238 1240 1241 1243 1245 -
736. 1250 1254 1256 1257 1259 1262 UNI GY 5
737. 64 65 73 78 81 83 86 TO 88 90 92 TO 95 98 TO 101 112 113 119 123 126 130 135 -
738. 136 TO 138 141 TO 144 152 154 169 170 172 174 175 177 TO 185 187 188 190 199 -
739. 201 211 221 223 225 227 234 237 240 243 245 251 253 254 257 258 260 365 372 -
740. 373 378 381 383 386 TO 388 390 394 396 399 TO 401 412 414 422 425 427 428 -
741. 430 433 435 436 438 440 TO 442 450 452 468 482 483 498 502 508 518 520 531 -
742. 534 TO 537 540 553 554 556 560 561 563 564 567 569 571 573 TO 577 611 619 -
743. 624 629 632 TO 634 636 638 640 641 644 TO 647 657 664 668 670 673 680 681 -
744. 684 685 694 696 704 713 715 TO 718 722 723 726 729 740 742 751 757 758 760 -
745. 769 772 774 775 777 779 784 788 790 791 793 796 797 799 812 816 848 856 861 -
746. 866 869 TO 871 873 875 877 878 881 TO 884 894 901 905 907 910 917 918 921 -
747. 922 931 933 941 950 952 TO 955 959 960 963 966 977 979 988 994 995 997 1006 -
748. 1009 1011 1012 1014 1016 1021 1025 1027 1028 1030 1033 1034 1036 1042 1045 -
749. 1077 1085 1090 1095 1098 TO 1100 1102 1104 1106 1107 1110 TO 1113 1123 1130 -
750. 1134 1136 1139 1146 1147 1150 1151 1160 1162 1170 1179 1181 TO 1184 1188 -
751. 1189 1192 1195 1206 1208 1217 1223 1224 1226 1235 1238 1240 1241 1243 1245 -
752. 1250 1254 1256 1257 1259 1262 UNI GZ 5
753. MEMBER LOAD
754. 1263 1265 1271 1274 1540 1541 UNI GX 5
755. 1263 1265 1271 1274 1540 1541 UNI GY 5
756. 1263 1265 1271 1274 1540 1541 UNI GZ 5
757. MEMBER LOAD
758. 63 69 TO 71 74 75 77 79 80 82 85 89 107 TO 111 115 TO 117 121 124 131 146 -
759. 147 153 159 TO 162 164 166 167 173 191 192 194 196 TO 198 200 204 207 212 -
760. 216 TO 218 222 230 TO 233 235 236 242 248 TO 250 255 273 287 288 298 315 -
761. 316 TO 317 331 364 366 368 TO 371 374 375 377 379 380 382 385 389 393 407 -
762. 408 TO 411 413 415 TO 417 421 424 429 444 445 451 458 TO 460 462 463 470 475 -
763. 476 TO 477 480 484 488 491 493 TO 495 497 501 509 513 TO 515 519 522 524 527 -
764. 528 TO 530 532 533 538 544 TO 546 549 TO 551 558 559 562 565 610 612 -
765. 614 TO 617 620 621 623 625 626 628 631 635 639 652 TO 656 658 660 TO 662 -
766. 666 669 674 688 689 695 701 TO 704 706 TO 708 714 719 TO 721 724 728 732 -
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767. 737 TO 739 741 745 748 752 754 TO 756 759 762 764 TO 768 770 771 776 781 -
768. 782 TO 783 786 TO 788 794 795 798 801 847 849 851 TO 854 857 858 860 862 863 -
769. 865 868 872 876 889 TO 893 895 897 TO 899 903 906 911 925 926 932 -
770. 938 TO 941 943 TO 945 951 956 TO 958 961 965 969 974 TO 976 978 982 985 989 -
771. 991 TO 993 996 999 1001 TO 1005 1007 1008 1013 1018 TO 1020 1023 TO 1025 -
772. 1031 1032 1035 1037 1076 1078 1080 TO 1083 1086 1087 1089 1091 1092 1094 -
773. 1097 1101 UNI GX 6
774. 63 69 TO 71 74 75 77 79 80 82 85 89 107 TO 111 115 TO 117 121 124 131 146 -
775. 147 153 159 TO 162 164 166 167 173 191 192 194 196 TO 198 200 204 207 212 -
776. 216 TO 218 222 230 TO 233 235 236 242 248 TO 250 255 273 287 288 298 315 -
777. 316 TO 317 331 364 366 368 TO 371 374 375 377 379 380 382 385 389 393 407 -
778. 408 TO 411 413 415 TO 417 421 424 429 444 445 451 458 TO 460 462 463 470 475 -
779. 476 TO 477 480 484 488 491 493 TO 495 497 501 509 513 TO 515 519 522 524 527 -
780. 528 TO 530 532 533 538 544 TO 546 549 TO 551 558 559 562 565 610 612 -
781. 614 TO 617 620 621 623 625 626 628 631 635 639 652 TO 656 658 660 TO 662 -
782. 666 669 674 688 689 695 701 TO 704 706 TO 708 714 719 TO 721 724 728 732 -
783. 737 TO 739 741 745 748 752 754 TO 756 759 762 764 TO 768 770 771 776 781 -
784. 782 TO 783 786 TO 788 794 795 798 801 847 849 851 TO 854 857 858 860 862 863 -
785. 865 868 872 876 889 TO 893 895 897 TO 899 903 906 911 925 926 932 -
786. 938 TO 941 943 TO 945 951 956 TO 958 961 965 969 974 TO 976 978 982 985 989 -
787. 991 TO 993 996 999 1001 TO 1005 1007 1008 1013 1018 TO 1020 1023 TO 1025 -
788. 1031 1032 1035 1037 1076 1078 1080 TO 1083 1086 1087 1089 1091 1092 1094 -
789. 1097 1101 UNI GY 6
790. 63 69 TO 71 74 75 77 79 80 82 85 89 107 TO 111 115 TO 117 121 124 131 146 -
791. 147 153 159 TO 162 164 166 167 173 191 192 194 196 TO 198 200 204 207 212 -
792. 216 TO 218 222 230 TO 233 235 236 242 248 TO 250 255 273 287 288 298 315 -
793. 316 TO 317 331 364 366 368 TO 371 374 375 377 379 380 382 385 389 393 407 -
794. 408 TO 411 413 415 TO 417 421 424 429 444 445 451 458 TO 460 462 463 470 475 -
795. 476 TO 477 480 484 488 491 493 TO 495 497 501 509 513 TO 515 519 522 524 527 -
796. 528 TO 530 532 533 538 544 TO 546 549 TO 551 558 559 562 565 610 612 -
797. 614 TO 617 620 621 623 625 626 628 631 635 639 652 TO 656 658 660 TO 662 -
798. 666 669 674 688 689 695 701 TO 704 706 TO 708 714 719 TO 721 724 728 732 -
799. 737 TO 739 741 745 748 752 754 TO 756 759 762 764 TO 768 770 771 776 781 -
800. 782 TO 783 786 TO 788 794 795 798 801 847 849 851 TO 854 857 858 860 862 863 -
801. 865 868 872 876 889 TO 893 895 897 TO 899 903 906 911 925 926 932 -
802. 938 TO 941 943 TO 945 951 956 TO 958 961 965 969 974 TO 976 978 982 985 989 -
803. 991 TO 993 996 999 1001 TO 1005 1007 1008 1013 1018 TO 1020 1023 TO 1025 -
804. 1031 1032 1035 1037 1076 1078 1080 TO 1083 1086 1087 1089 1091 1092 1094 -
805. 1097 1101 UNI GZ 6
806. MEMBER LOAD
807. 1105 1118 TO 1122 1124 1126 TO 1128 1132 1135 1140 1154 1155 1161 -
808. 1167 TO 1170 1172 TO 1174 1180 1185 TO 1187 1190 1194 1198 1203 TO 1205 -
809. 1207 1211 1214 1218 1220 TO 1222 1225 1228 1230 TO 1234 1236 1237 1242 1247 -
810. 1248 TO 1249 1252 TO 1254 1260 1261 1264 1266 1344 1346 1385 TO 1387 1394 -
811. 1425 1428 1438 1439 1442 1444 1445 1498 UNI GX 6
812. 1105 1118 TO 1122 1124 1126 TO 1128 1132 1135 1140 1154 1155 1161 -
813. 1167 TO 1170 1172 TO 1174 1180 1185 TO 1187 1190 1194 1198 1203 TO 1205 -
814. 1207 1211 1214 1218 1220 TO 1222 1225 1228 1230 TO 1234 1236 1237 1242 1247 -
815. 1248 TO 1249 1252 TO 1254 1260 1261 1264 1266 1344 1346 1385 TO 1387 1394 -
816. 1425 1428 1438 1439 1442 1444 1445 1498 UNI GY 6
817. 1105 1118 TO 1122 1124 1126 TO 1128 1132 1135 1140 1154 1155 1161 -
818. 1167 TO 1170 1172 TO 1174 1180 1185 TO 1187 1190 1194 1198 1203 TO 1205 -
819. 1207 1211 1214 1218 1220 TO 1222 1225 1228 1230 TO 1234 1236 1237 1242 1247 -
820. 1248 TO 1249 1252 TO 1254 1260 1261 1264 1266 1344 1346 1385 TO 1387 1394 -
821. 1425 1428 1438 1439 1442 1444 1445 1498 UNI GZ 6
822. MEMBER LOAD
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823. 66 76 102 103 105 107 TO 111 115 TO 117 120 121 124 127 131 145 TO 151 153 -
824. 157 160 162 164 166 TO 168 173 189 191 192 194 196 TO 198 200 202 203 206 -
825. 208 210 255 271 275 280 281 296 297 313 327 TO 329 367 376 402 403 405 446 -
826. 447 TO 448 455 486 489 499 500 503 505 507 570 613 614 622 648 649 651 665 -
827. 671 687 690 TO 693 699 709 730 733 743 744 747 749 750 806 808 850 851 859 -
828. 885 886 888 902 908 924 927 TO 930 936 946 967 970 980 981 984 986 987 1040 -
829. 1041 1079 1080 1088 1114 1115 1117 1131 1137 1153 1156 TO 1159 1165 1175 -
830. 1196 1199 1209 1210 1213 1215 1216 1269 1270 1394 UNI GX 7
831. 66 76 102 103 105 107 TO 111 115 TO 117 120 121 124 127 131 145 TO 151 153 -
832. 157 160 162 164 166 TO 168 173 189 191 192 194 196 TO 198 200 202 203 206 -
833. 208 210 255 271 275 280 281 296 297 313 327 TO 329 367 376 402 403 405 446 -
834. 447 TO 448 455 486 489 499 500 503 505 507 570 613 614 622 648 649 651 665 -
835. 671 687 690 TO 693 699 709 730 733 743 744 747 749 750 806 808 850 851 859 -
836. 885 886 888 902 908 924 927 TO 930 936 946 967 970 980 981 984 986 987 1040 -
837. 1041 1079 1080 1088 1114 1115 1117 1131 1137 1153 1156 TO 1159 1165 1175 -
838. 1196 1199 1209 1210 1213 1215 1216 1269 1270 1394 UNI GY 7
839. 66 76 102 103 105 107 TO 111 115 TO 117 120 121 124 127 131 145 TO 151 153 -
840. 157 160 162 164 166 TO 168 173 189 191 192 194 196 TO 198 200 202 203 206 -
841. 208 210 255 271 275 280 281 296 297 313 327 TO 329 367 376 402 403 405 446 -
842. 447 TO 448 455 486 489 499 500 503 505 507 570 613 614 622 648 649 651 665 -
843. 671 687 690 TO 693 699 709 730 733 743 744 747 749 750 806 808 850 851 859 -
844. 885 886 888 902 908 924 927 TO 930 936 946 967 970 980 981 984 986 987 1040 -
845. 1041 1079 1080 1088 1114 1115 1117 1131 1137 1153 1156 TO 1159 1165 1175 -
846. 1196 1199 1209 1210 1213 1215 1216 1269 1270 1394 UNI GZ 7
847. MEMBER LOAD
848. 72 158 163 195 205 209 213 246 259 372 461 492 502 542 618 700 705 736 746 -
849. 780 792 855 937 942 973 983 1017 1029 1084 1166 1171 1202 1212 1246 1258 -
850. 1305 1309 TO 1312 1315 1316 1318 1320 1321 1323 1326 1330 1347 TO 1350 1355 -
851. 1356 TO 1357 1361 1364 1369 1384 1390 1395 1398 TO 1400 1402 1403 1427 1430 -
852. 1431 1436 1441 1443 1450 1451 1454 1460 TO 1463 1466 1475 1485 TO 1489 1493 -
853. 1495 UNI GX 3
854. 72 158 163 195 205 209 213 246 259 372 461 492 502 542 618 700 705 736 746 -
855. 780 792 855 937 942 973 983 1017 1029 1084 1166 1171 1202 1212 1246 1258 -
856. 1305 1309 TO 1312 1315 1316 1318 1320 1321 1323 1326 1330 1347 TO 1350 1355 -
857. 1356 TO 1357 1361 1364 1369 1384 1390 1395 1398 TO 1400 1402 1403 1427 1430 -
858. 1431 1436 1441 1443 1450 1451 1454 1460 TO 1463 1466 1475 1485 TO 1489 1493 -
859. 1495 UNI GY 3
860. 72 158 163 195 205 209 213 246 259 372 461 492 502 542 618 700 705 736 746 -
861. 780 792 855 937 942 973 983 1017 1029 1084 1166 1171 1202 1212 1246 1258 -
862. 1305 1309 TO 1312 1315 1316 1318 1320 1321 1323 1326 1330 1347 TO 1350 1355 -
863. 1356 TO 1357 1361 1364 1369 1384 1390 1395 1398 TO 1400 1402 1403 1427 1430 -
864. 1431 1436 1441 1443 1450 1451 1454 1460 TO 1463 1466 1475 1485 TO 1489 1493 -
865. 1495 UNI GZ 3
866. MEMBER LOAD
867. 104 155 156 256 274 277 278 294 404 453 454 552 561 650 697 698 789 887 934 -
868. 935 1026 1116 1163 1164 1255 1345 1392 1393 1484 UNI GX 13
869. 104 155 156 256 274 277 278 294 404 453 454 552 561 650 697 698 789 887 934 -
870. 935 1026 1116 1163 1164 1255 1345 1392 1393 1484 UNI GY 13
871. 104 155 156 256 274 277 278 294 404 453 454 552 561 650 697 698 789 887 934 -
872. 935 1026 1116 1163 1164 1255 1345 1392 1393 1484 UNI GZ 13
873. FLOOR LOAD
874. YRANGE 5.5 24.3 FLOAD 3.125 GX
875. YRANGE 5.5 24.3 FLOAD 3.125 GY
876. YRANGE 5.5 24.3 FLOAD 3.125 GZ
877. FLOOR LOAD
878. YRANGE 5.5 24.3 FLOAD 2 GX
```

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```
879. YRANGE 5.5 24.3 FLOAD 2 GY
880. YRANGE 5.5 24.3 FLOAD 2 GZ
881. FLOOR LOAD
882. YRANGE 20 22 FLOAD 1.5 GX
883. YRANGE 20 22 FLOAD 1.5 GY
884. YRANGE 20 22 FLOAD 1.5 GZ
885. FLOOR LOAD
886. _WT FLOAD 15 GX
887. _WT FLOAD 15 GY
888. _WT FLOAD 15 GZ
889. SELFWEIGHT X 1
890. SELFWEIGHT Y 1
891. SELFWEIGHT Z 1
892. FLOOR LOAD
893. YRANGE 5.5 18.2 FLOAD 0.5 GX
894. YRANGE 5.5 18.2 FLOAD 0.5 GY
895. YRANGE 5.5 18.2 FLOAD 0.5 GZ
896. END DEFINE REFERENCE LOADS

*** NOTE: MASS MODEL FORMED WILL BE USED IN SEISMIC/RESPONSE/TIME HISTORY LOADING, IF ANY.
          IF MASS MODEL IS SEPARATELY PROVIDED IN INDIVIDUAL LOADING, THE GENERATED MASS
          WILL BE REPLACED BY THE MASS PROVIDED IN INDIVIDUAL LOADING.

897. FLOOR DIAPHRAGM
898. DIA 1 TYPE RIG HEI 5.6
899. DIA 2 TYPE RIG HEI 8.7
900. DIA 3 TYPE RIG HEI 11.8
901. DIA 4 TYPE RIG HEI 14.9
902. DIA 5 TYPE RIG HEI 18
903. DIA 6 TYPE RIG HEI 21.1
904. DIA 7 TYPE RIG HEI 24.2

FLOOR DIAPHRAGM

*******************************************************************************

FLOOR DIAPHRAGM     UNIT - KN   METE
---------------     ----------
```

NO.	TYPE	FL. LEVEL	FL. WT	CENTRE OF MASS X	Z	CONTROL JOINT NO.
1	RIGID	5.600	6424.08	5.049	17.348	985
2	RIGID	8.700	5624.24	4.957	16.759	986
3	RIGID	11.800	5699.41	4.940	16.926	987
4	RIGID	14.900	5699.41	4.940	16.926	988
5	RIGID	18.000	5699.41	4.940	16.926	989
6	RIGID	21.100	4723.12	5.012	16.949	990
7	RIGID	24.200	637.78	7.002	15.493	991

```
*******************************************************************************
```

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```
906. DEFINE IS1893 2016 LOAD
907. ZONE 0.16 RF 5 I 1 SS 2 ST 1 DM 0.05 PX 0.45 PZ 0.29
908. DEFINE WIND LOAD
909. TYPE 1 IS875 RECT CLAD (+X)
910. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
911. IS875-2015:PARAMS 1 0 0 24.200 0.000 5.000 0 CHENNAI 50.000 0 1.000 2 6 -
912. 0.910 0.910 0.910 0.970 1.010 1.031 1.000 2 1.000 0.200 0 14.070 33.860 -
913. 24.200 1 1 1 0.200 0 0 4 0 4 1.000 0.000 0.000 0.000 NA NA 6 0.000 0.000 -
914. 0.000 0.000 0.000 0.000 1 1 4 0.000 1.000 0.000 0.000 NA NA 6 0.000 0.000 -
915. 0.000 0.000 0.000 0.000 1 2 4 0.000 0.000 1.000 0.000 NA NA 6 0.000 0.000 -
916. 0.000 0.000 0.000 0.000 1 3 4 0.000 0.000 0.000 1.000 NA NA 6 0.000 0.000 -
917. 0.000 0.000 0.000 0.000 1 0.090 1.000 0.090 TYPES 4 1 2 3 4 LOADS 4 13 14 15 -
918. 16
919. !> END GENERATED DATA BLOCK
920. INT 0.869505 0.869505 0.869505 0.987945 1.07111 1.11611 HEIG 0 5 10 15 20 -
921. 24.2
922. TYPE 2 IS875 RECT CLAD (-X)
923. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
924. IS875-2015:PARAMS 1  1
925. !> END GENERATED DATA BLOCK
926. INT 0.869505 0.869505 0.869505 0.987945 1.07111 1.11611 HEIG 0 5 10 15 20 -
927. 24.2
928. TYPE 3 IS875 RECT CLAD (+Z)
929. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
930. IS875-2015:PARAMS 1  1
931. !> END GENERATED DATA BLOCK
932. INT 0.869505 0.869505 0.869505 0.987945 1.07111 1.11611 HEIG 0 5 10 15 20 -
933. 24.2
934. TYPE 4 IS875 RECT CLAD (-Z)
935. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
936. IS875-2015:PARAMS 1  1
937. !> END GENERATED DATA BLOCK
938. INT 0.869505 0.869505 0.869505 0.987945 1.07111 1.11611 HEIG 0 5 10 15 20 -
939. 24.2
940. LOAD 5 LOADTYPE SEISMIC-H  TITLE EQ+X
941. 1893 LOAD X 1
942. LOAD 6 LOADTYPE SEISMIC-H  TITLE EQ-X
943. 1893 LOAD X -1.
944. LOAD 7 LOADTYPE SEISMIC-H  TITLE EQ+Z
945. 1893 LOAD Z 1
946. LOAD 8 LOADTYPE SEISMIC-H  TITLE EQ-Z
947. 1893 LOAD Z -1.
948. LOAD 1 LOADTYPE DEAD  TITLE DL
```



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```
949. MEMBER LOAD
950. 64 65 73 78 81 83 86 TO 88 90 92 TO 95 98 TO 101 112 113 119 123 126 130 135 -
951. 136 TO 138 141 TO 144 152 154 169 170 172 174 175 177 TO 185 187 188 190 199 -
952. 201 211 221 223 225 227 234 237 240 243 245 251 253 254 257 258 260 365 372 -
953. 373 378 381 383 386 TO 388 390 394 396 399 TO 401 412 414 422 425 427 428 -
954. 430 433 435 436 438 440 TO 442 450 452 468 482 483 498 502 508 518 520 531 -
955. 534 TO 537 540 553 554 556 560 561 563 564 567 569 571 573 TO 577 611 619 -
956. 624 629 632 TO 634 636 638 640 641 644 TO 647 657 664 668 670 673 680 681 -
957. 684 685 694 696 704 713 715 TO 718 722 723 726 729 740 742 751 757 758 760 -
958. 769 772 774 775 777 779 784 788 790 791 793 796 797 799 812 816 848 856 861 -
959. 866 869 TO 871 873 875 877 878 881 TO 884 894 901 905 907 910 917 918 921 -
960. 922 931 933 941 950 952 TO 955 959 960 963 966 977 979 988 994 995 997 1006 -
961. 1009 1011 1012 1014 1016 1021 1025 1027 1028 1030 1033 1034 1036 1042 1045 -
962. 1077 1085 1090 1095 1098 TO 1100 1102 1104 1106 1107 1110 TO 1113 1123 1130 -
963. 1134 1136 1139 1146 1147 1150 1151 1160 1162 1170 1179 1181 TO 1184 1188 -
964. 1189 1192 1195 1206 1208 1217 1223 1224 1226 1235 1238 1240 1241 1243 1245 -
965. 1250 1254 1256 1257 1259 1262 UNI GY -5
966. 1263 1265 1271 1274 1540 1541 UNI GY -5
967. 63 69 TO 71 74 75 77 79 80 82 85 89 107 TO 111 115 TO 117 121 124 131 146 -
968. 147 153 159 TO 162 164 166 167 173 191 192 194 196 TO 198 200 204 207 212 -
969. 216 TO 218 222 230 TO 233 235 236 242 248 TO 250 255 273 287 288 298 315 -
970. 316 TO 317 331 364 366 368 TO 371 374 375 377 379 380 382 385 389 393 407 -
971. 408 TO 411 413 415 TO 417 421 424 429 444 445 451 458 TO 460 462 463 470 475 -
972. 476 TO 477 480 484 488 491 493 TO 495 497 501 509 513 TO 515 519 522 524 527 -
973. 528 TO 530 532 533 538 544 TO 546 549 TO 551 558 559 562 565 610 612 -
974. 614 TO 617 620 621 623 625 626 628 631 635 639 652 TO 656 658 660 TO 662 -
975. 666 669 674 688 689 695 701 TO 704 706 TO 708 714 719 TO 721 724 728 732 -
976. 737 TO 739 741 745 748 752 754 TO 756 759 762 764 TO 768 770 771 776 781 -
977. 782 TO 783 786 TO 788 794 795 798 801 847 849 851 TO 854 857 858 860 862 863 -
978. 865 868 872 876 889 TO 893 895 897 TO 899 903 906 911 925 926 932 -
979. 938 TO 941 943 TO 945 951 956 TO 958 961 965 969 974 TO 976 978 982 985 989 -
980. 991 TO 993 996 999 1001 TO 1005 1007 1008 1013 1018 TO 1020 1023 TO 1025 -
981. 1031 1032 1035 1037 1076 1078 1080 TO 1083 1086 1087 1089 1091 1092 1094 -
982. 1097 1101 UNI GY -6
983. 1105 1118 TO 1122 1124 1126 TO 1128 1132 1135 1140 1154 1155 1161 -
984. 1167 TO 1170 1172 TO 1174 1180 1185 TO 1187 1190 1194 1198 1203 TO 1205 -
985. 1207 1211 1214 1218 1220 TO 1222 1225 1228 1230 TO 1234 1236 1237 1242 1247 -
986. 1248 TO 1249 1252 TO 1254 1260 1261 1264 1266 1344 1346 1385 TO 1387 1394 -
987. 1425 1428 1438 1439 1442 1444 1445 1498 UNI GY -6
988. 66 76 102 103 105 107 TO 111 115 TO 117 120 121 124 127 131 145 TO 151 153 -
989. 157 160 162 164 166 TO 168 173 189 191 192 194 196 TO 198 200 202 203 206 -
990. 208 210 255 271 275 280 281 296 297 313 327 TO 329 367 376 402 403 405 446 -
991. 447 TO 448 455 486 489 499 500 503 505 507 570 613 614 622 648 649 651 665 -
992. 671 687 690 TO 693 699 709 730 733 743 744 747 749 750 806 808 850 851 859 -
993. 885 886 888 902 908 924 927 TO 930 936 946 967 970 980 981 984 986 987 1040 -
994. 1041 1079 1080 1088 1114 1115 1117 1131 1137 1153 1156 TO 1159 1165 1175 -
995. 1196 1199 1209 1210 1213 1215 1216 1269 1270 1394 UNI GY -7
996. 72 158 163 195 205 209 213 246 259 372 461 492 502 542 618 700 705 736 746 -
997. 780 792 855 937 942 973 983 1017 1029 1084 1166 1171 1202 1212 1246 1258 -
998. 1305 1309 TO 1312 1315 1316 1318 1320 1321 1323 1326 1330 1347 TO 1350 1355 -
999. 1356 TO 1357 1361 1364 1369 1384 1390 1395 1398 TO 1400 1402 1403 1427 1430 -
1000. 1431 1436 1441 1443 1450 1451 1454 1460 TO 1463 1466 1475 1485 TO 1489 1493 -
1001. 1495 UNI GY -3
1002. 104 155 156 256 274 277 278 294 404 453 454 552 561 650 697 698 789 887 934 -
1003. 935 1026 1116 1163 1164 1255 1345 1392 1393 1484 UNI GY -13
1004. FLOOR LOAD
```

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```
 1005. YRANGE 5.5 24.3 FLOAD -3.125 GY
**NOTE** about Floor/OneWay Loads/Weights.
  Please note that depending on the shape of the floor you may
  have to break up the FLOOR/ONEWAY LOAD into multiple commands.
  For details please refer to Technical Reference Manual
  Section 5.32.4.2 Note d and/or "5.32.4.3 Note f.

 1006. YRANGE 5.5 24.3 FLOAD -2 GY
 1007. YRANGE 20 22 FLOAD -1.5 GY
 1008. _WT FLOAD -15 GY
**NOTE** about FLOOR GROUP command
  All floor panels in a floor group should lie in a single plane.
  If not lying in a single plane break single FLOOR GROUP
  command into multiple FLOOR GROUP commands where each
  floor group lie in a single plane / height.

 1009. SELFWEIGHT Y -1
 1010. LOAD 2 LOADTYPE LIVE  TITLE LL
 1011. FLOOR LOAD
 1012. YRANGE 5.5 18.2 FLOAD -2 GY
 1013. YRANGE 20 22 FLOAD -1.5 GY
 1014. LOAD 9 LOADTYPE SEISMIC-H  TITLE RS+X
 1015. SPECTRUM CQC IS1893 2016 X 0.016 SCALE 2.95 DAMP 0.05
 1016. SOIL TYPE 2
 1017. LOAD 10 LOADTYPE SEISMIC-H  TITLE RS-X
 1018. SPECTRUM CQC IS1893 2016 X -0.016 SCALE 2.95 DAMP 0.05
 1019. SOIL TYPE 2
 1020. LOAD 11 LOADTYPE SEISMIC-H  TITLE RS+Z
 1021. SPECTRUM CQC IS1893 2016 Z 0.016 SCALE 3.83 DAMP 0.05
 1022. SOIL TYPE 2
 1023. LOAD 12 LOADTYPE SEISMIC-H  TITLE RS-Z
 1024. SPECTRUM CQC IS1893 2016 Z -0.016 SCALE 3.83 DAMP 0.05
 1025. SOIL TYPE 2
 1026. LOAD 13 LOADTYPE WIND  TITLE WIND (+X) IS875 RECT CLAD
 1027. WIND LOAD X 1 TYPE 1
 1028. LOAD 14 LOADTYPE WIND  TITLE WIND (-X) IS875 RECT CLAD
 1029. WIND LOAD X -1 TYPE 2
  **WARNING-fx fy fz wind forces: -1.3314E-01  0.0000E+00  0.0000E+00
            at coordinates:        5.6650E+00  0.0000E+00  2.4500E-01 ignored.
  **WARNING-fx fy fz wind forces: -1.8262E+00  0.0000E+00  0.0000E+00
            at coordinates:        5.6650E+00  5.6000E+00  1.0205E+01 ignored.
  **WARNING-fx fy fz wind forces: -3.6925E+00  0.0000E+00  0.0000E+00
            at coordinates:        5.6650E+00  8.7000E+00  1.0205E+01 ignored.
```

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```
 **WARNING-fx fy fz wind forces: -4.1499E+00  0.0000E+00  0.0000E+00
          at coordinates:        5.6650E+00  1.1800E+01  1.0205E+01 ignored.
 **WARNING-fx fy fz wind forces: -4.3133E+00  0.0000E+00  0.0000E+00
          at coordinates:        5.6650E+00  1.4900E+01  1.0205E+01 ignored.
 **WARNING-fx fy fz wind forces: -4.4992E+00  0.0000E+00  0.0000E+00
          at coordinates:        5.6650E+00  1.8000E+01  1.0205E+01 ignored.
 **WARNING-fx fy fz wind forces: -2.3167E+00  0.0000E+00  0.0000E+00
          at coordinates:        5.6650E+00  2.1100E+01  1.0205E+01 ignored.
1030. LOAD 15 LOADTYPE WIND  TITLE WIND (+Z) IS875 RECT CLAD
1031. WIND LOAD Z 1 TYPE 3
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  1.1489E+00
          at coordinates:        0.0000E+00  5.6000E+00  1.5800E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  2.3231E+00
          at coordinates:        0.0000E+00  8.7000E+00  1.5800E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  2.6109E+00
          at coordinates:        0.0000E+00  1.1800E+01  1.5800E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  2.7137E+00
          at coordinates:        0.0000E+00  1.4900E+01  1.5800E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  2.8307E+00
          at coordinates:        0.0000E+00  1.8000E+01  1.5800E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00  1.4575E+00
          at coordinates:        0.0000E+00  2.1100E+01  1.5800E+01 ignored.
1032. LOAD 16 LOADTYPE WIND  TITLE WIND (-Z) IS875 RECT CLAD
1033. WIND LOAD Z -1 TYPE 4
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -3.8954E-01
          at coordinates:        1.0525E+01  2.5000E+00  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.7390E-01
          at coordinates:        1.0525E+01  0.0000E+00  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -3.7226E-01
          at coordinates:       -1.7050E+00  0.0000E+00  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -7.1191E-01
          at coordinates:       -4.5500E-01  0.0000E+00  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -4.3127E-01
          at coordinates:        1.0525E+01  5.6000E+00  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.8464E+00
          at coordinates:       -4.5500E-01  5.6000E+00  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -4.3601E-01
          at coordinates:        1.0525E+01  8.7000E+00  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.8667E+00
          at coordinates:       -4.5500E-01  8.7000E+00  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -4.9002E-01
          at coordinates:        1.0525E+01  1.1800E+01  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.0979E+00
          at coordinates:       -4.5500E-01  1.1800E+01  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -5.0931E-01
          at coordinates:        1.0525E+01  1.4900E+01  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.1805E+00
          at coordinates:       -4.5500E-01  1.4900E+01  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -5.3127E-01
          at coordinates:        1.0525E+01  1.8000E+01  1.3740E+01 ignored.
```

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```
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.2745E+00
           at coordinates:       -4.5500E-01  1.8000E+01  2.1635E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -5.5035E-01
           at coordinates:        1.0525E+01  2.1100E+01  1.3740E+01 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.1712E+00
           at coordinates:       -4.5500E-01  2.1100E+01  2.1635E+01 ignored.
1034. LOAD COMB 3 DL+LL
1035. 1 1.0 2 1.0
1036. LOAD COMB 4 1.5DL+1.5LL
1037. 1 1.5 2 1.5
1038. LOAD COMB 17 DL+RS(+X)
1039. 1 1.0 9 1.0
1040. LOAD COMB 18 DL+RS(-X)
1041. 1 1.0 10 1.0
1042. LOAD COMB 19 DL+RS(+Z)
1043. 1 1.0 11 1.0
1044. LOAD COMB 20 DL+RS(-Z)
1045. 1 1.0 12 1.0
1046. LOAD COMB 21 DL+WL(+X)
1047. 1 1.0 13 1.0
1048. LOAD COMB 22 DL+WL(-X)
1049. 1 1.0 14 1.0
1050. LOAD COMB 23 DL+WL(+Z)
1051. 1 1.0 15 1.0
1052. LOAD COMB 24 DL+WL(-Z)
1053. 1 1.0 16 1.0
1054. LOAD COMB 25 1.0DL+0.8LL+0.8RS(+X)
1055. 1 1.0 9 0.8 2 0.8
1056. LOAD COMB 26 1.0DL+0.8LL+0.8RS(-X)
1057. 1 1.0 10 0.8 2 0.8
1058. LOAD COMB 27 1.0DL+0.8LL+0.8RS(+Z)
1059. 1 1.0 11 0.8 2 0.8
1060. LOAD COMB 28 1.0DL+0.8LL+0.8RS(-Z)
1061. 1 1.0 12 0.8 2 0.8
1062. LOAD COMB 29 1.0DL+0.8LL+0.8WL(+X)
1063. 1 1.0 2 0.8 13 0.8
1064. LOAD COMB 30 1.0DL+0.8LL+0.8WL(-X)
1065. 1 1.0 2 0.8 14 0.8
1066. LOAD COMB 31 1.0DL+0.8LL+0.8WL(+Z)
1067. 1 1.0 2 0.8 15 0.8
1068. LOAD COMB 32 1.0DL+0.8LL+0.8WL(-Z)
1069. 1 1.0 2 0.8 16 0.8
1070. LOAD COMB 33 1.2DL+1.2LL+1.2RS(+X)
1071. 1 1.2 2 1.2 9 1.2
1072. LOAD COMB 34 1.2DL+1.2LL+1.2RS(-X)
1073. 1 1.2 2 1.2 10 1.2
1074. LOAD COMB 35 1.2DL+1.2LL+1.2RS(+Z)
1075. 1 1.2 2 1.2 11 1.2
1076. LOAD COMB 36 1.2DL+1.2LL+1.2RS(-Z)
1077. 1 1.2 2 1.2 12 1.2
1078. LOAD COMB 37 1.2DL+1.2LL+1.2WL(+X)
1079. 1 1.2 2 1.2 13 1.2
1080. LOAD COMB 38 1.2DL+1.2LL+1.2WL(-X)
1081. 1 1.2 2 1.2 14 1.2
1082. LOAD COMB 39 1.2DL+1.2LL+1.2WL(+Z)
1083. 1 1.2 2 1.2 15 1.2
```

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

```
1084. LOAD COMB 40 1.2DL+1.2LL+1.2WL(-Z)
1085. 1 1.2 2 1.2 16 1.2
1086. LOAD COMB 41 0.9DL+1.5RS(+X)
1087. 1 0.9 9 1.5
1088. LOAD COMB 42 0.9DL+1.5RS(-X)
1089. 1 0.9 10 1.5
1090. LOAD COMB 43 0.9DL+1.5RS(+Z)
1091. 1 0.9 11 1.5
1092. LOAD COMB 44 0.9DL+1.5RS(-Z)
1093. 1 0.9 12 1.5
1094. LOAD COMB 45 0.9DL+1.5WL(+X)
1095. 1 0.9 13 1.5
1096. LOAD COMB 46 0.9DL+1.5WL(-X)
1097. 1 0.9 14 1.5
1098. LOAD COMB 47 0.9DL+1.5WL(+Z)
1099. 1 0.9 15 1.5
1100. LOAD COMB 48 0.9DL+1.5WL(-Z)
1101. 1 0.9 16 1.5
1102. LOAD COMB 49 1.5DL+1.5RS(+X)
1103. 1 1.5 9 1.5
1104. LOAD COMB 50 1.5DL+1.5RS(-X)
1105. 1 1.5 10 1.5
1106. LOAD COMB 51 1.5DL+1.5RS(+Z)
1107. 1 1.5 11 1.5
1108. LOAD COMB 52 1.5DL+1.5RS(-Z)
1109. 1 1.5 12 1.5
1110. LOAD COMB 53 1.5DL+1.5WL(+X)
1111. 1 1.5 13 1.5
1112. LOAD COMB 54 1.5DL+1.5WL(-X)
1113. 1 1.5 14 1.5
1114. LOAD COMB 55 1.5DL+1.5WL(+Z)
1115. 1 1.5 15 1.5
1116. LOAD COMB 56 1.5DL+1.5WL(-Z)
1117. 1 1.5 16 1.5
1118. PERFORM ANALYSIS
```

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	984	NUMBER OF MEMBERS	1558
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	31

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 14, TOTAL DEGREES OF FREEDOM = 3027
TOTAL LOAD COMBINATION CASES = 42 SO FAR.

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***NOTE: MASSES DEFINED UNDER LOAD# 9 WILL FORM
THE FINAL MASS MATRIX FOR DYNAMIC ANALYSIS.

**WARNING: IF THIS UBC/IBC ANALYSIS HAS TENSION/COMPRESSION
OR REPEAT LOAD OR RE-ANALYSIS OR SELECT OPTIMIZE, THEN EACH
UBC/IBC CASE SHOULD BE FOLLOWED BY PERFORM ANALYSIS & CHANGE.

***NOTE: Equivalent Static Analysis should preferably be performed for regular
structures with approximate natural time period less than 0.4s and regular
structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.45000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0400 X    35972.88=    1438.92 KN   *
* VB Act Based on Clause 7.2.1 =     1438.92 KN         *
* VB Min based on Clause 7.2.2 =      395.70 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular
structures with approximate natural time period less than 0.4s and regular
structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.45000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0400 X    35972.88=   -1438.92 KN   *
* VB Act Based on Clause 7.2.1 =    -1438.92 KN         *
* VB Min based on Clause 7.2.2 =     -395.70 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular
structures with approximate natural time period less than 0.4s and regular
structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN Z

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.29000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0400 X    35972.88=    1438.92 KN   *
* VB Act Based on Clause 7.2.1 =     1438.92 KN         *
* VB Min based on Clause 7.2.2 =      395.70 KN         *
*                                                       *
*********************************************************
```

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***NOTE: Equivalent Static Analysis should preferably be performed for regular
structures with approximate natural time period less than 0.4s and regular
structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

BASE SHEAR AND TIME PERIOD IN Z

```
   ******************************************************
   * UNITS - KN    METE                                 *
   * TIME PERIOD FOR Z 1893 LOADING =    0.29000 SEC    *
   * SA/G PER 1893=    2.500, LOAD FACTOR=-1.000        *
   * VB PER 1893=    0.0400 X    35972.88=   -1438.92 KN *
   * VB Act Based on Clause 7.2.1 =    -1438.92 KN      *
   * VB Min based on Clause 7.2.2 =     -395.70 KN      *
   *                                                    *
   ******************************************************

 EIGEN METHOD   : SUBSPACE
 -------------------------
 NUMBER OF MODES REQUESTED              =    18
 NUMBER OF EXISTING MASSES IN THE MODEL =  1065
 NUMBER OF MODES THAT WILL BE USED      =    18

   *** EIGENSOLUTION: ADVANCED METHOD ***
```

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CALCULATED FREQUENCIES FOR LOAD CASE 9

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)
1	0.546	1.83159
2	0.616	1.62370
3	0.708	1.41190
4	1.655	0.60415
5	1.891	0.52889
6	2.179	0.45888
7	2.743	0.36450
8	3.291	0.30389
9	3.369	0.29686
10	3.550	0.28170
11	3.821	0.26171
12	4.424	0.22603
13	4.954	0.20187
14	5.131	0.19490
15	5.469	0.18285
16	5.586	0.17901
17	5.809	0.17213
18	5.846	0.17107

1893 RESPONSE SPECTRUM LOAD 9

RESPONSE LOAD CASE 9

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	2.087423E-01	4.687227E-03	2.861219E+04	1.348405E+04
2	3.135964E+01	7.489943E-02	7.696614E+02	7.417163E+03
3	2.998176E+04	4.638382E-02	2.530557E-01	1.628851E+04
4	2.396349E-04	3.635586E-02	3.867595E+03	6.780745E+03
5	3.801567E+00	5.448417E-01	9.463167E+01	7.768053E+03
6	3.743444E+03	9.816896E-02	4.634051E-02	1.213467E+04
7	3.565123E-02	3.339622E-01	1.020828E+03	1.116086E+03
8	5.963711E-02	5.637885E-01	2.996154E+02	1.274257E+03
9	4.518570E-01	9.867331E-02	1.467724E+02	1.467092E+03
10	6.858793E-01	1.232480E+02	2.547258E-01	5.718073E+01
11	9.969010E+02	1.044303E+00	1.105293E-02	7.577483E+03
12	9.235787E-03	2.144951E+00	3.655026E+02	5.756707E+03
13	2.124237E-01	7.169236E+01	1.813415E-01	6.983184E+03
14	1.296157E+00	2.636962E+03	7.946614E-02	6.340640E+02
15	2.238458E+02	1.292221E+03	1.420043E-02	3.287148E+03
16	1.074698E+02	4.175220E+03	2.502479E-01	2.708774E+03
17	3.021728E+00	4.135714E+03	3.550315E+00	1.102284E+03

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18 1.783749E+00 1.725871E+03 4.319041E+01 7.043440E+02

CQC MODAL COMBINATION METHOD USED.
DYNAMIC WEIGHT X Y Z 3.584340E+04 3.584340E+04 3.584340E+04 KN
MISSING WEIGHT X Y Z -7.470489E+02 -2.167748E+04 -6.187703E+02 KN
MODAL WEIGHT X Y Z 3.509635E+04 1.416592E+04 3.522463E+04 KN

RESPONSE LOAD CASE 9

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.74252	0.0350	0.0000	0.0000
2	0.83759	0.0395	0.0000	0.0000
3	0.96324	0.0455	0.0000	0.0000
4	2.25109	0.1063	0.0000	0.0000
5	2.50000	0.1180	0.0000	0.0000
6	2.50000	0.1180	0.0000	0.0000
7	2.50000	0.1180	0.0000	0.0000
8	2.50000	0.1180	0.0000	0.0000
9	2.50000	0.1180	0.0000	0.0000
10	2.50000	0.1180	0.0000	0.0000
11	2.50000	0.1180	0.0000	0.0000
12	2.50000	0.1180	0.0000	0.0000
13	2.50000	0.1180	0.0000	0.0000
14	2.50000	0.1180	0.0000	0.0000
15	2.50000	0.1180	0.0000	0.0000
16	2.50000	0.1180	0.0000	0.0000
17	2.50000	0.1180	0.0000	0.0000
18	2.50000	0.1180	0.0000	0.0000

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
7	24.20	65.63	0.00	0.00
6	21.10	435.59	0.00	0.00
5	18.00	747.42	0.00	0.00
4	14.90	959.00	0.00	0.00
3	11.80	1124.56	0.00	0.00
2	8.70	1276.38	0.00	0.00
1	5.60	1428.02	0.00	0.00
BASE	0.00	1439.98	0.00	0.00

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MODE	ACCELERATION-G	DAMPING
1	2.19044	0.05000
2	2.47090	0.05000
3	2.84156	0.05000
4	6.64071	0.05000
5	7.37500	0.05000
6	7.37500	0.05000
7	7.37500	0.05000
8	7.37500	0.05000
9	7.37500	0.05000
10	7.37500	0.05000
11	7.37500	0.05000
12	7.37500	0.05000
13	7.37500	0.05000
14	7.37500	0.05000
15	7.37500	0.05000
16	7.37500	0.05000
17	7.37500	0.05000
18	7.37500	0.05000

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MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.832	0.01	-0.00	-2.71	-41.94	13.75	-0.10
2	1.624	1.24	-0.06	6.14	93.13	-7.75	-17.52
3	1.412	1363.12	-1.70	-3.96	-2.92	23055.88	-20965.31
4	0.604	0.00	0.00	-0.10	0.10	0.49	0.01
5	0.529	0.45	0.17	2.24	-5.37	0.93	2.28
6	0.459	441.73	2.26	-1.55	-89.72	7597.83	989.77
7	0.365	0.00	0.01	0.71	3.98	-4.33	0.10
8	0.304	0.01	-0.02	0.50	1.94	-1.20	-0.18
9	0.297	0.05	0.02	-0.96	-1.45	5.64	-0.33
10	0.282	0.08	-1.08	0.05	21.86	1.15	-8.32
11	0.262	117.63	-3.81	0.39	74.93	2009.15	-676.64
12	0.226	0.00	-0.02	-0.22	0.32	1.20	-0.04
13	0.202	0.03	-0.46	-0.02	10.70	-1.41	-4.08
14	0.195	0.15	6.90	-0.04	-204.15	2.16	57.16
15	0.183	26.41	-63.46	0.21	545.13	493.13	108.40
16	0.179	12.68	79.04	0.61	-571.52	232.23	243.86
17	0.172	0.36	-13.19	0.39	128.96	4.12	-108.77
18	0.171	0.21	6.55	-1.04	-180.47	9.93	0.01

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PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.00	0.00	79.83	0.001	0.000	79.826	0.01	0.00	0.00
2	0.09	0.00	2.15	0.088	0.000	81.973	1.24	0.00	0.00
3	83.65	0.00	0.00	83.735	0.000	81.974	1363.12	0.00	0.00
4	0.00	0.00	10.79	83.735	0.000	92.764	0.00	0.00	0.00
5	0.01	0.00	0.26	83.745	0.002	93.028	0.45	0.00	0.00
6	10.44	0.00	0.00	94.189	0.002	93.028	441.73	0.00	0.00
7	0.00	0.00	2.85	94.189	0.003	95.876	0.00	0.00	0.00
8	0.00	0.00	0.84	94.189	0.005	96.712	0.01	0.00	0.00
9	0.00	0.00	0.41	94.191	0.005	97.121	0.05	0.00	0.00
10	0.00	0.34	0.00	94.192	0.349	97.122	0.08	0.00	0.00
11	2.78	0.00	0.00	96.974	0.352	97.122	117.63	0.00	0.00
12	0.00	0.01	1.02	96.974	0.358	98.142	0.00	0.00	0.00
13	0.00	0.20	0.00	96.974	0.558	98.142	0.03	0.00	0.00
14	0.00	7.36	0.00	96.978	7.915	98.142	0.15	0.00	0.00
15	0.62	3.61	0.00	97.603	11.520	98.143	26.41	0.00	0.00
16	0.30	11.65	0.00	97.902	23.168	98.143	12.68	0.00	0.00
17	0.01	11.54	0.01	97.911	34.707	98.153	0.36	0.00	0.00
18	0.00	4.82	0.12	97.916	39.522	98.274	0.21	0.00	0.00
					TOTAL SRSS SHEAR		1438.03	0.00	0.00
					TOTAL 10PCT SHEAR		1438.29	0.00	0.00
					TOTAL ABS SHEAR		1964.16	0.00	0.00
					TOTAL CSM SHEAR		1441.55	0.00	0.00
					TOTAL CQC SHEAR		1439.98	0.00	0.00

```
*********************************************************
* UNITS - KN     METE                                   *
* TIME PERIOD FOR X 1893 LOADING =     0.45000 SEC      *
* SA/G PER 1893=     2.500, LOAD FACTOR= 1.000          *
*       FACTOR V  PER 1893=     0.0400 X  35972.88      *
* VB Min based on Clause 7.2.2 =       395.70           *
*********************************************************
```

1893 RESPONSE SPECTRUM LOAD 10

RESPONSE LOAD CASE 10

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN			GENERALIZED WEIGHT
	X	Y	Z	

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1	2.087423E-01	4.687227E-03	2.861219E+04	1.348405E+04
2	3.135964E+01	7.489943E-02	7.696614E+02	7.417163E+03
3	2.998176E+04	4.638382E-02	2.530557E-01	1.628851E+04
4	2.396349E-04	3.635586E-02	3.867595E+03	6.780745E+03
5	3.801567E+00	5.448417E-01	9.463167E+01	7.768053E+03
6	3.743444E+03	9.816896E-02	4.634051E-02	1.213467E+04
7	3.565123E-02	3.339622E-01	1.020828E+03	1.116086E+03
8	5.963711E-02	5.637885E-01	2.996154E+02	1.274257E+03
9	4.518570E-01	9.867331E-02	1.467724E+02	1.467092E+03
10	6.858793E-01	1.232480E+02	2.547258E-01	5.718073E+01
11	9.969010E+02	1.044303E+00	1.105293E-02	7.577483E+03
12	9.235787E-03	2.144951E+00	3.655026E+02	5.756707E+03
13	2.124237E-01	7.169236E+01	1.813415E-01	6.983184E+03
14	1.296157E+00	2.636962E+03	7.946614E-02	6.340640E+02
15	2.238458E+02	1.292221E+03	1.420043E-02	3.287148E+03
16	1.074698E+02	4.175220E+03	2.502479E-01	2.708774E+03
17	3.021728E+00	4.135714E+03	3.550315E+00	1.102284E+03
18	1.783749E+00	1.725871E+03	4.319041E+01	7.043440E+02

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT X Y Z	3.584340E+04	3.584340E+04	3.584340E+04 KN
MISSING WEIGHT X Y Z	-7.470489E+02	-2.167748E+04	-6.187703E+02 KN
MODAL WEIGHT X Y Z	3.509635E+04	1.416592E+04	3.522463E+04 KN

RESPONSE LOAD CASE 10

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.74252	-0.0350	0.0000	0.0000
2	0.83759	-0.0395	0.0000	0.0000
3	0.96324	-0.0455	0.0000	0.0000
4	2.25109	-0.1063	0.0000	0.0000
5	2.50000	-0.1180	0.0000	0.0000
6	2.50000	-0.1180	0.0000	0.0000
7	2.50000	-0.1180	0.0000	0.0000
8	2.50000	-0.1180	0.0000	0.0000
9	2.50000	-0.1180	0.0000	0.0000
10	2.50000	-0.1180	0.0000	0.0000
11	2.50000	-0.1180	0.0000	0.0000
12	2.50000	-0.1180	0.0000	0.0000
13	2.50000	-0.1180	0.0000	0.0000
14	2.50000	-0.1180	0.0000	0.0000
15	2.50000	-0.1180	0.0000	0.0000
16	2.50000	-0.1180	0.0000	0.0000
17	2.50000	-0.1180	0.0000	0.0000
18	2.50000	-0.1180	0.0000	0.0000

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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
7	24.20	65.63	0.00	0.00
6	21.10	435.59	0.00	0.00
5	18.00	747.42	0.00	0.00
4	14.90	959.00	0.00	0.00
3	11.80	1124.56	0.00	0.00
2	8.70	1276.38	0.00	0.00
1	5.60	1428.02	0.00	0.00
BASE	0.00	1439.98	0.00	0.00

MODE	ACCELERATION-G	DAMPING
1	2.19044	0.05000
2	2.47090	0.05000
3	2.84156	0.05000
4	6.64071	0.05000
5	7.37500	0.05000
6	7.37500	0.05000
7	7.37500	0.05000
8	7.37500	0.05000
9	7.37500	0.05000
10	7.37500	0.05000
11	7.37500	0.05000
12	7.37500	0.05000
13	7.37500	0.05000
14	7.37500	0.05000
15	7.37500	0.05000
16	7.37500	0.05000
17	7.37500	0.05000
18	7.37500	0.05000

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.832	-0.01	0.00	2.71	41.94	-13.75	0.10
2	1.624	-1.24	0.06	-6.14	-93.13	7.75	17.52
3	1.412	-1363.12	1.70	3.96	2.92	-23055.88	20965.31
4	0.604	-0.00	-0.00	0.10	-0.10	-0.49	-0.01
5	0.529	-0.45	-0.17	-2.24	5.37	-0.93	-2.28
6	0.459	-441.73	-2.26	1.55	89.72	-7597.83	-989.77
7	0.365	-0.00	-0.01	-0.71	-3.98	4.33	-0.10
8	0.304	-0.01	0.02	-0.50	-1.94	1.20	0.18
9	0.297	-0.05	-0.02	0.96	1.45	-5.64	0.33
10	0.282	-0.08	1.08	-0.05	-21.86	-1.15	8.32
11	0.262	-117.63	3.81	-0.39	-74.93	-2009.15	676.64
12	0.226	-0.00	0.02	0.22	-0.32	-1.20	0.04
13	0.202	-0.03	0.46	0.02	-10.70	1.41	4.08
14	0.195	-0.15	-6.90	0.04	204.15	-2.16	-57.16
15	0.183	-26.41	63.46	-0.21	-545.13	-493.13	-108.40
16	0.179	-12.68	-79.04	-0.61	571.52	-232.23	-243.86
17	0.172	-0.36	13.19	-0.39	-128.96	-4.12	108.77
18	0.171	-0.21	-6.55	1.04	180.47	-9.93	-0.01

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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.00	0.00	79.83	0.001	0.000	79.826	-0.01	0.00	0.00
2	0.09	0.00	2.15	0.088	0.000	81.973	-1.24	0.00	0.00
3	83.65	0.00	0.00	83.735	0.000	81.974	-1363.12	0.00	0.00
4	0.00	0.00	10.79	83.735	0.000	92.764	-0.00	0.00	0.00
5	0.01	0.00	0.26	83.745	0.002	93.028	-0.45	0.00	0.00
6	10.44	0.00	0.00	94.189	0.002	93.028	-441.73	0.00	0.00
7	0.00	0.00	2.85	94.189	0.003	95.876	-0.00	0.00	0.00
8	0.00	0.00	0.84	94.189	0.005	96.712	-0.01	0.00	0.00
9	0.00	0.00	0.41	94.191	0.005	97.121	-0.05	0.00	0.00
10	0.00	0.34	0.00	94.192	0.349	97.122	-0.08	0.00	0.00
11	2.78	0.00	0.00	96.974	0.352	97.122	-117.63	0.00	0.00
12	0.00	0.01	1.02	96.974	0.358	98.142	-0.00	0.00	0.00
13	0.00	0.20	0.00	96.974	0.558	98.142	-0.03	0.00	0.00
14	0.00	7.36	0.00	96.978	7.915	98.142	-0.15	0.00	0.00
15	0.62	3.61	0.00	97.603	11.520	98.143	-26.41	0.00	0.00
16	0.30	11.65	0.00	97.902	23.168	98.143	-12.68	0.00	0.00
17	0.01	11.54	0.01	97.911	34.707	98.153	-0.36	0.00	0.00
18	0.00	4.82	0.12	97.916	39.522	98.274	-0.21	0.00	0.00
					TOTAL SRSS SHEAR		-1438.03	0.00	0.00
					TOTAL 10PCT SHEAR		-1438.29	0.00	0.00
					TOTAL ABS SHEAR		-1964.16	0.00	0.00
					TOTAL CSM SHEAR		-1441.55	0.00	0.00
					TOTAL CQC SHEAR		-1439.98	0.00	0.00

1893 RESPONSE SPECTRUM LOAD 11

RESPONSE LOAD CASE 11

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN			GENERALIZED
	X	Y	Z	WEIGHT
1	2.087423E-01	4.687227E-03	2.861219E+04	1.348405E+04
2	3.135964E+01	7.489943E-02	7.696614E+02	7.417163E+03
3	2.998176E+04	4.638382E-02	2.530557E-01	1.628851E+04
4	2.396349E-04	3.635586E-02	3.867595E+03	6.780745E+03
5	3.801567E+00	5.448417E-01	9.463167E+01	7.768053E+03
6	3.743444E+03	9.816896E-02	4.634051E-02	1.213467E+04
7	3.565123E-02	3.339622E-01	1.020828E+03	1.116086E+03
8	5.963711E-02	5.637885E-01	2.996154E+02	1.274257E+03
9	4.518570E-01	9.867331E-02	1.467724E+02	1.467092E+03
10	6.858793E-01	1.232480E+02	2.547258E-01	5.718073E+01

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SHOLINGANALLUR, CHENNAI - 600 119.
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11	9.969010E+02	1.044303E+00	1.105293E-02	7.577483E+03
12	9.235787E-03	2.144951E+00	3.655026E+02	5.756707E+03
13	2.124237E-01	7.169236E+01	1.813415E-01	6.983184E+03
14	1.296157E+00	2.636962E+03	7.946614E-02	6.340640E+02
15	2.238458E+02	1.292221E+03	1.420043E-02	3.287148E+03
16	1.074698E+02	4.175220E+03	2.502479E-01	2.708774E+03
17	3.021728E+00	4.135714E+03	3.550315E+00	1.102284E+03
18	1.783749E+00	1.725871E+03	4.319041E+01	7.043440E+02

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT X Y Z	3.584340E+04	3.584340E+04	3.584340E+04	KN
MISSING WEIGHT X Y Z	-7.470489E+02	-2.167748E+04	-6.187703E+02	KN
MODAL WEIGHT X Y Z	3.509635E+04	1.416592E+04	3.522463E+04	KN

RESPONSE LOAD CASE 11

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.74252	0.0000	0.0000	0.0455
2	0.83759	0.0000	0.0000	0.0513
3	0.96324	0.0000	0.0000	0.0590
4	2.25109	0.0000	0.0000	0.1379
5	2.50000	0.0000	0.0000	0.1532
6	2.50000	0.0000	0.0000	0.1532
7	2.50000	0.0000	0.0000	0.1532
8	2.50000	0.0000	0.0000	0.1532
9	2.50000	0.0000	0.0000	0.1532
10	2.50000	0.0000	0.0000	0.1532
11	2.50000	0.0000	0.0000	0.1532
12	2.50000	0.0000	0.0000	0.1532
13	2.50000	0.0000	0.0000	0.1532
14	2.50000	0.0000	0.0000	0.1532
15	2.50000	0.0000	0.0000	0.1532
16	2.50000	0.0000	0.0000	0.1532
17	2.50000	0.0000	0.0000	0.1532
18	2.50000	0.0000	0.0000	0.1532

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
7	24.20	0.00	0.00	105.70
6	21.10	0.00	0.00	484.17
5	18.00	0.00	0.00	785.79
4	14.90	0.00	0.00	969.48
3	11.80	0.00	0.00	1110.99
2	8.70	0.00	0.00	1261.75
1	5.60	0.00	0.00	1426.13
BASE	0.00	0.00	0.00	1440.50

MODE	ACCELERATION-G	DAMPING
1	2.84386	0.05000
2	3.20798	0.05000
3	3.68922	0.05000
4	8.62167	0.05000
5	9.57500	0.05000
6	9.57500	0.05000
7	9.57500	0.05000
8	9.57500	0.05000
9	9.57500	0.05000
10	9.57500	0.05000
11	9.57500	0.05000
12	9.57500	0.05000
13	9.57500	0.05000
14	9.57500	0.05000
15	9.57500	0.05000
16	9.57500	0.05000
17	9.57500	0.05000
18	9.57500	0.05000



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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.832	-3.52	0.53	1301.91	20160.30	-6611.10	47.86
2	1.624	7.97	-0.39	39.50	599.03	-49.88	-112.72
3	1.412	-5.14	0.01	0.01	0.01	-86.96	79.08
4	0.604	-0.13	-1.64	533.52	-526.83	-2553.16	-40.03
5	0.529	2.91	1.10	14.50	-34.80	6.05	14.80
6	0.459	-2.02	-0.01	0.01	0.41	-34.71	-4.52
7	0.365	0.92	2.83	156.39	875.46	-950.68	22.58
8	0.304	0.65	-1.99	45.90	178.69	-110.65	-16.53
9	0.297	-1.25	-0.58	22.49	33.86	-131.93	7.69
10	0.282	0.06	-0.86	0.04	17.29	0.91	-6.59
11	0.262	0.51	-0.02	0.00	0.32	8.69	-2.93
12	0.226	-0.28	4.29	56.00	-83.08	-309.86	10.11
13	0.202	-0.03	0.55	0.03	-12.83	1.69	4.90
14	0.195	-0.05	-2.22	0.01	65.63	-0.69	-18.38
15	0.183	0.27	-0.66	0.00	5.64	5.10	1.12
16	0.179	0.79	4.95	0.04	-35.81	14.55	15.28
17	0.172	0.50	-18.56	0.54	181.48	5.79	-153.06
18	0.171	-1.34	-41.83	6.62	1152.95	-63.47	-0.05



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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	0.00	0.00	79.83	0.001	0.000	79.826	0.00	0.00	1301.91
2	0.09	0.00	2.15	0.088	0.000	81.973	0.00	0.00	39.50
3	83.65	0.00	0.00	83.735	0.000	81.974	0.00	0.00	0.01
4	0.00	0.00	10.79	83.735	0.000	92.764	0.00	0.00	533.52
5	0.01	0.00	0.26	83.745	0.002	93.028	0.00	0.00	14.50
6	10.44	0.00	0.00	94.189	0.002	93.028	0.00	0.00	0.01
7	0.00	0.00	2.85	94.189	0.003	95.876	0.00	0.00	156.39
8	0.00	0.00	0.84	94.189	0.005	96.712	0.00	0.00	45.90
9	0.00	0.00	0.41	94.191	0.005	97.121	0.00	0.00	22.49
10	0.00	0.34	0.00	94.192	0.349	97.122	0.00	0.00	0.04
11	2.78	0.00	0.00	96.974	0.352	97.122	0.00	0.00	0.00
12	0.00	0.01	1.02	96.974	0.358	98.142	0.00	0.00	56.00
13	0.00	0.20	0.00	96.974	0.558	98.142	0.00	0.00	0.03
14	0.00	7.36	0.00	96.978	7.915	98.142	0.00	0.00	0.01
15	0.62	3.61	0.00	97.603	11.520	98.143	0.00	0.00	0.00
16	0.30	11.65	0.00	97.902	23.168	98.143	0.00	0.00	0.04
17	0.01	11.54	0.01	97.911	34.707	98.153	0.00	0.00	0.54
18	0.00	4.82	0.12	97.916	39.522	98.274	0.00	0.00	6.62
					TOTAL SRSS SHEAR		0.00	0.00	1418.32
					TOTAL 10PCT SHEAR		0.00	0.00	1419.05
					TOTAL ABS SHEAR		0.00	0.00	2177.51
					TOTAL CSM SHEAR		0.00	0.00	1419.40
					TOTAL CQC SHEAR		0.00	0.00	1440.50

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*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.29000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000           *
*      FACTOR V  PER 1893=    0.0400 X  35972.88        *
* VB Min based on Clause 7.2.2 =      395.70            *
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1893 RESPONSE SPECTRUM LOAD 12

RESPONSE LOAD CASE 12

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN			GENERALIZED WEIGHT
	X	Y	Z	

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STAAD SPACE -- PAGE NO. 39

1	2.087423E-01	4.687227E-03	2.861219E+04	1.348405E+04
2	3.135964E+01	7.489943E-02	7.696614E+02	7.417163E+03
3	2.998176E+04	4.638382E-02	2.530557E-01	1.628851E+04
4	2.396349E-04	3.635586E-02	3.867595E+03	6.780745E+03
5	3.801567E+00	5.448417E-01	9.463167E+01	7.768053E+03
6	3.743444E+03	9.816896E-02	4.634051E-02	1.213467E+04
7	3.565123E-02	3.339622E-01	1.020828E+03	1.116086E+03
8	5.963711E-02	5.637885E-01	2.996154E+02	1.274257E+03
9	4.518570E-01	9.867331E-02	1.467724E+02	1.467092E+03
10	6.858793E-01	1.232480E+02	2.547258E-01	5.718073E+01
11	9.969010E+02	1.044303E+00	1.105293E-02	7.577483E+03
12	9.235787E-03	2.144951E+00	3.655026E+02	5.756707E+03
13	2.124237E-01	7.169236E+01	1.813415E-01	6.983184E+03
14	1.296157E+00	2.636962E+03	7.946614E-02	6.340640E+02
15	2.238458E+02	1.292221E+03	1.420043E-02	3.287148E+03
16	1.074698E+02	4.175220E+03	2.502479E-01	2.708774E+03
17	3.021728E+00	4.135714E+03	3.550315E+00	1.102284E+03
18	1.783749E+00	1.725871E+03	4.319041E+01	7.043440E+02

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT X Y Z	3.584340E+04	3.584340E+04	3.584340E+04	KN
MISSING WEIGHT X Y Z	-7.470489E+02	-2.167748E+04	-6.187703E+02	KN
MODAL WEIGHT X Y Z	3.509635E+04	1.416592E+04	3.522463E+04	KN

RESPONSE LOAD CASE 12

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	0.74252	0.0000	0.0000	-0.0455
2	0.83759	0.0000	0.0000	-0.0513
3	0.96324	0.0000	0.0000	-0.0590
4	2.25109	0.0000	0.0000	-0.1379
5	2.50000	0.0000	0.0000	-0.1532
6	2.50000	0.0000	0.0000	-0.1532
7	2.50000	0.0000	0.0000	-0.1532
8	2.50000	0.0000	0.0000	-0.1532
9	2.50000	0.0000	0.0000	-0.1532
10	2.50000	0.0000	0.0000	-0.1532
11	2.50000	0.0000	0.0000	-0.1532
12	2.50000	0.0000	0.0000	-0.1532
13	2.50000	0.0000	0.0000	-0.1532
14	2.50000	0.0000	0.0000	-0.1532
15	2.50000	0.0000	0.0000	-0.1532
16	2.50000	0.0000	0.0000	-0.1532
17	2.50000	0.0000	0.0000	-0.1532
18	2.50000	0.0000	0.0000	-0.1532

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
7	24.20	0.00	0.00	105.70
6	21.10	0.00	0.00	484.17
5	18.00	0.00	0.00	785.79
4	14.90	0.00	0.00	969.48
3	11.80	0.00	0.00	1110.99
2	8.70	0.00	0.00	1261.75
1	5.60	0.00	0.00	1426.13
BASE	0.00	0.00	0.00	1440.50

MODE	ACCELERATION-G	DAMPING
1	2.84386	0.05000
2	3.20798	0.05000
3	3.68922	0.05000
4	8.62167	0.05000
5	9.57500	0.05000
6	9.57500	0.05000
7	9.57500	0.05000
8	9.57500	0.05000
9	9.57500	0.05000
10	9.57500	0.05000
11	9.57500	0.05000
12	9.57500	0.05000
13	9.57500	0.05000
14	9.57500	0.05000
15	9.57500	0.05000
16	9.57500	0.05000
17	9.57500	0.05000
18	9.57500	0.05000

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.832	3.52	-0.53	-1301.91	-20160.30	6611.10	-47.86
2	1.624	-7.97	0.39	-39.50	-599.03	49.88	112.72
3	1.412	5.14	-0.01	-0.01	-0.01	86.96	-79.08
4	0.604	0.13	1.64	-533.52	526.83	2553.16	40.03
5	0.529	-2.91	-1.10	-14.50	34.80	-6.05	-14.80
6	0.459	2.02	0.01	-0.01	-0.41	34.71	4.52
7	0.365	-0.92	-2.83	-156.39	-875.46	950.68	-22.58
8	0.304	-0.65	1.99	-45.90	-178.69	110.65	16.53
9	0.297	1.25	0.58	-22.49	-33.86	131.93	-7.69
10	0.282	-0.06	0.86	-0.04	-17.29	-0.91	6.59
11	0.262	-0.51	0.02	-0.00	-0.32	-8.69	2.93
12	0.226	0.28	-4.29	-56.00	83.08	309.86	-10.11
13	0.202	0.03	-0.55	-0.03	12.83	-1.69	-4.90
14	0.195	0.05	2.22	-0.01	-65.63	0.69	18.38
15	0.183	-0.27	0.66	-0.00	-5.64	-5.10	-1.12
16	0.179	-0.79	-4.95	-0.04	35.81	-14.55	-15.28
17	0.172	-0.50	18.56	-0.54	-181.48	-5.79	153.06
18	0.171	1.34	41.83	-6.62	-1152.95	63.47	0.05

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Mobile: 9841269154

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	BASE SHEAR IN KN X	Y	Z
1	0.00	0.00	79.83	0.001	0.000	79.826	0.00	0.00	-1301.91
2	0.09	0.00	2.15	0.088	0.000	81.973	0.00	0.00	-39.50
3	83.65	0.00	0.00	83.735	0.000	81.974	0.00	0.00	-0.01
4	0.00	0.00	10.79	83.735	0.000	92.764	0.00	0.00	-533.52
5	0.01	0.00	0.26	83.745	0.002	93.028	0.00	0.00	-14.50
6	10.44	0.00	0.00	94.189	0.002	93.028	0.00	0.00	-0.01
7	0.00	0.00	2.85	94.189	0.003	95.876	0.00	0.00	-156.39
8	0.00	0.00	0.84	94.189	0.005	96.712	0.00	0.00	-45.90
9	0.00	0.00	0.41	94.191	0.005	97.121	0.00	0.00	-22.49
10	0.00	0.34	0.00	94.192	0.349	97.122	0.00	0.00	-0.04
11	2.78	0.00	0.00	96.974	0.352	97.122	0.00	0.00	-0.00
12	0.00	0.01	1.02	96.974	0.358	98.142	0.00	0.00	-56.00
13	0.00	0.20	0.00	96.974	0.558	98.142	0.00	0.00	-0.03
14	0.00	7.36	0.00	96.978	7.915	98.142	0.00	0.00	-0.01
15	0.62	3.61	0.00	97.603	11.520	98.143	0.00	0.00	-0.00
16	0.30	11.65	0.00	97.902	23.168	98.143	0.00	0.00	-0.04
17	0.01	11.54	0.01	97.911	34.707	98.153	0.00	0.00	-0.54
18	0.00	4.82	0.12	97.916	39.522	98.274	0.00	0.00	-6.62
					TOTAL SRSS SHEAR		0.00	0.00	-1418.32
					TOTAL 10PCT SHEAR		0.00	0.00	-1419.05
					TOTAL ABS SHEAR		0.00	0.00	-2177.51
					TOTAL CSM SHEAR		0.00	0.00	-1419.40
					TOTAL CQC SHEAR		0.00	0.00	-1440.50

```
 1119. DEFINE ENVELOPE
 1120. 3 17 TO 32 ENVELOPE 1 TYPE SERVICEABILITY
 1121. 4 33 TO 56 ENVELOPE 2 TYPE STRENGTH
 1122. END DEFINE ENVELOPE
 1123. PRINT CG
CG

  CENTER OF GRAVITY OF THE STRUCTURE IS LOCATED AT: (METE UNIT)

        X =      4.8941   Y =     11.7984   Z =     16.6619

        TOTAL SELF WEIGHT =             9114.6641 (KN   UNIT)

 1124. PRINT DIA CR
DIA      CR
```



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****

CENTRE OF RIGIDITY UNIT - METE

DIAPHRAM	FL. LEVEL	X-COORDINATE	Z-COORDINATE
1	5.600	4.779	16.737
2	8.700	4.681	16.783
3	11.800	4.619	16.813
4	14.900	4.582	16.822
5	18.000	4.557	16.818
6	21.100	4.541	16.804
7	24.200	5.019	15.818

****

1125. FINISH

********** END OF THE STAAD.Pro RUN **********

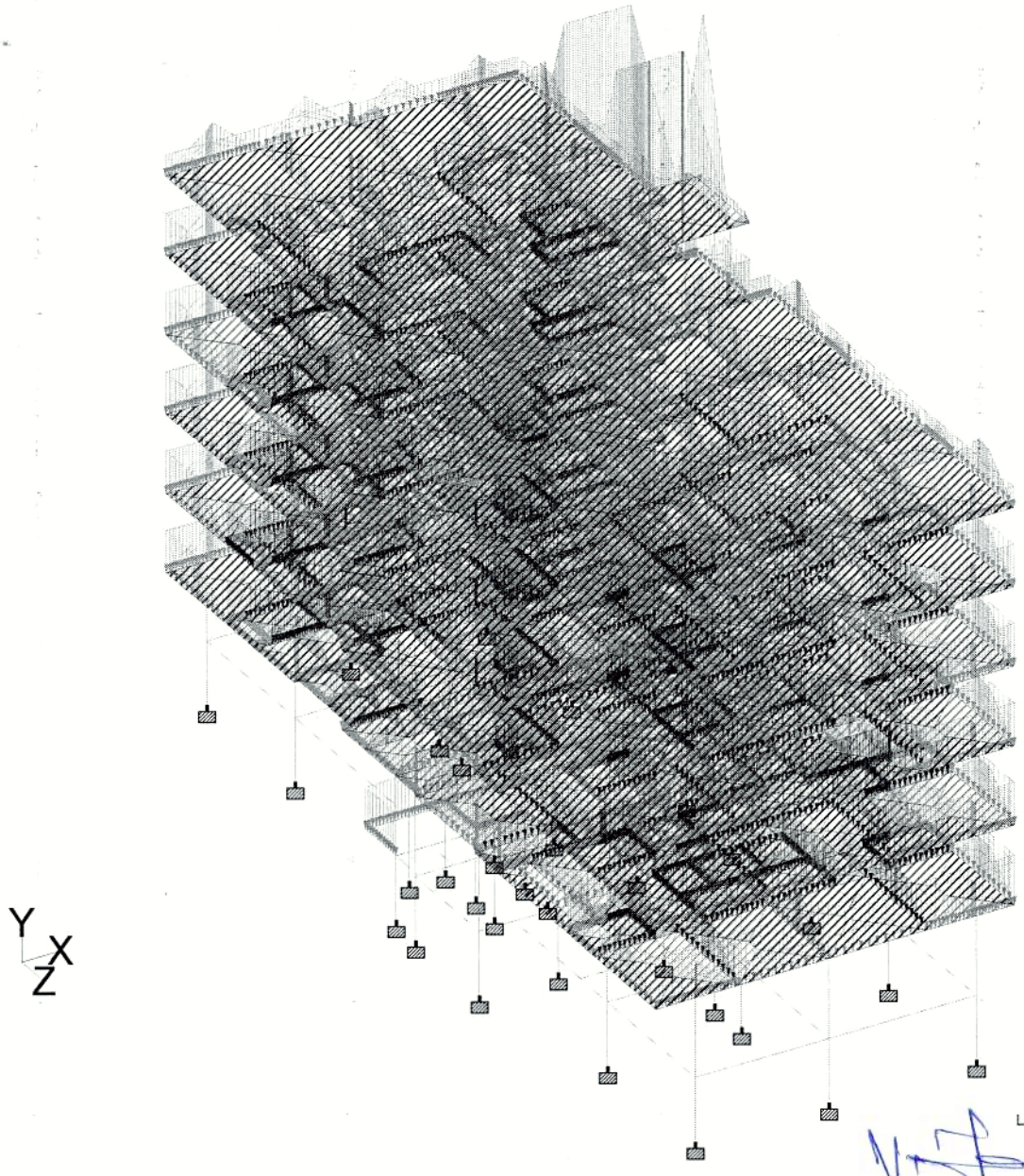
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CMDA REGN NOS -
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STAAD SPACE -- PAGE NO. 44

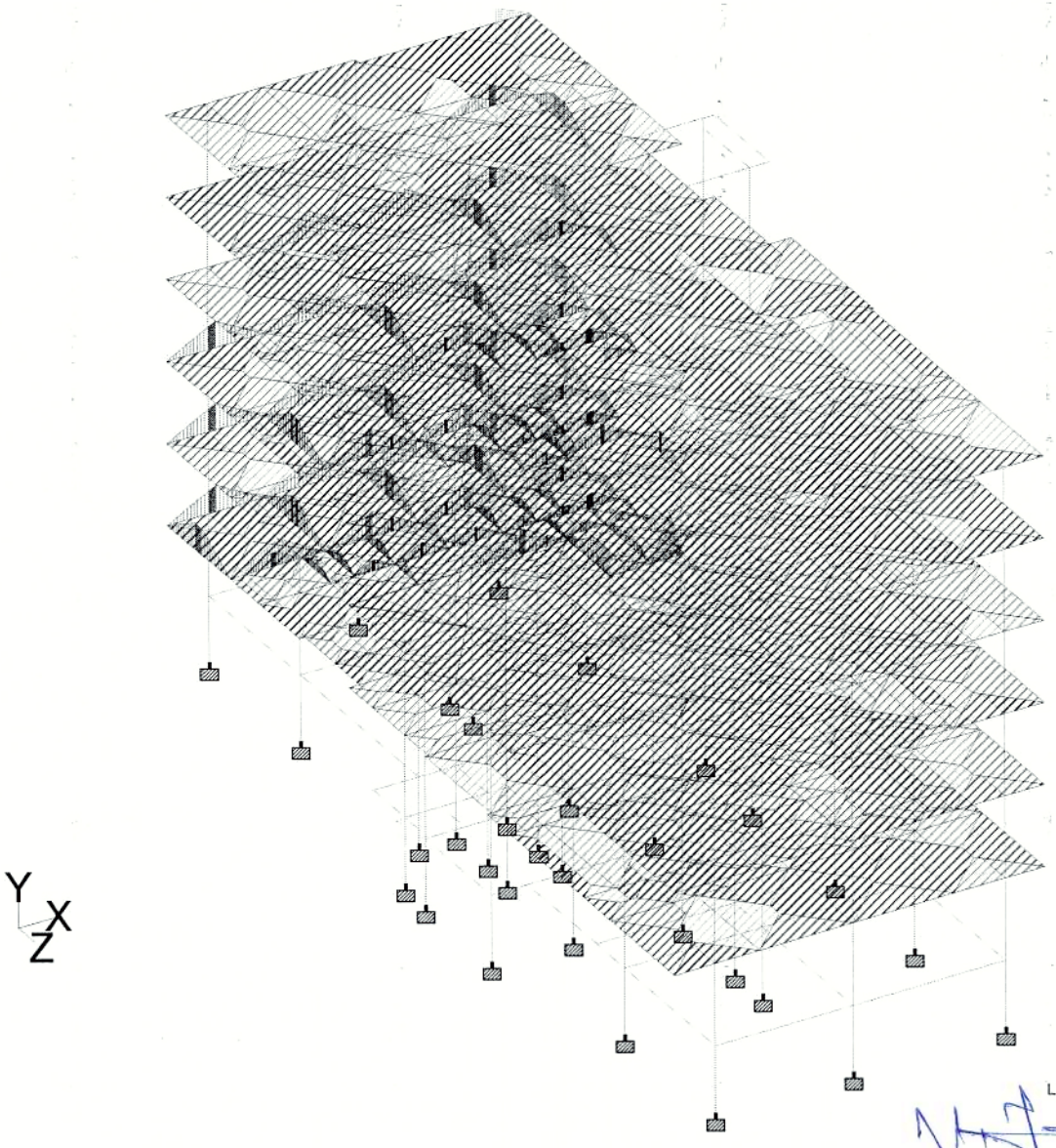
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*   For technical assistance on STAAD.Pro, please visit      *
*   http://www.bentley.com/en/support/                       *
*                                                            *
*   Details about additional assistance from                 *
*   Bentley and Partners can be found at program menu        *
*   Help->Technical Support                                  *
*                                                            *
*           Copyright (c) Bentley Systems, Inc.              *
*                http://www.bentley.com                      *
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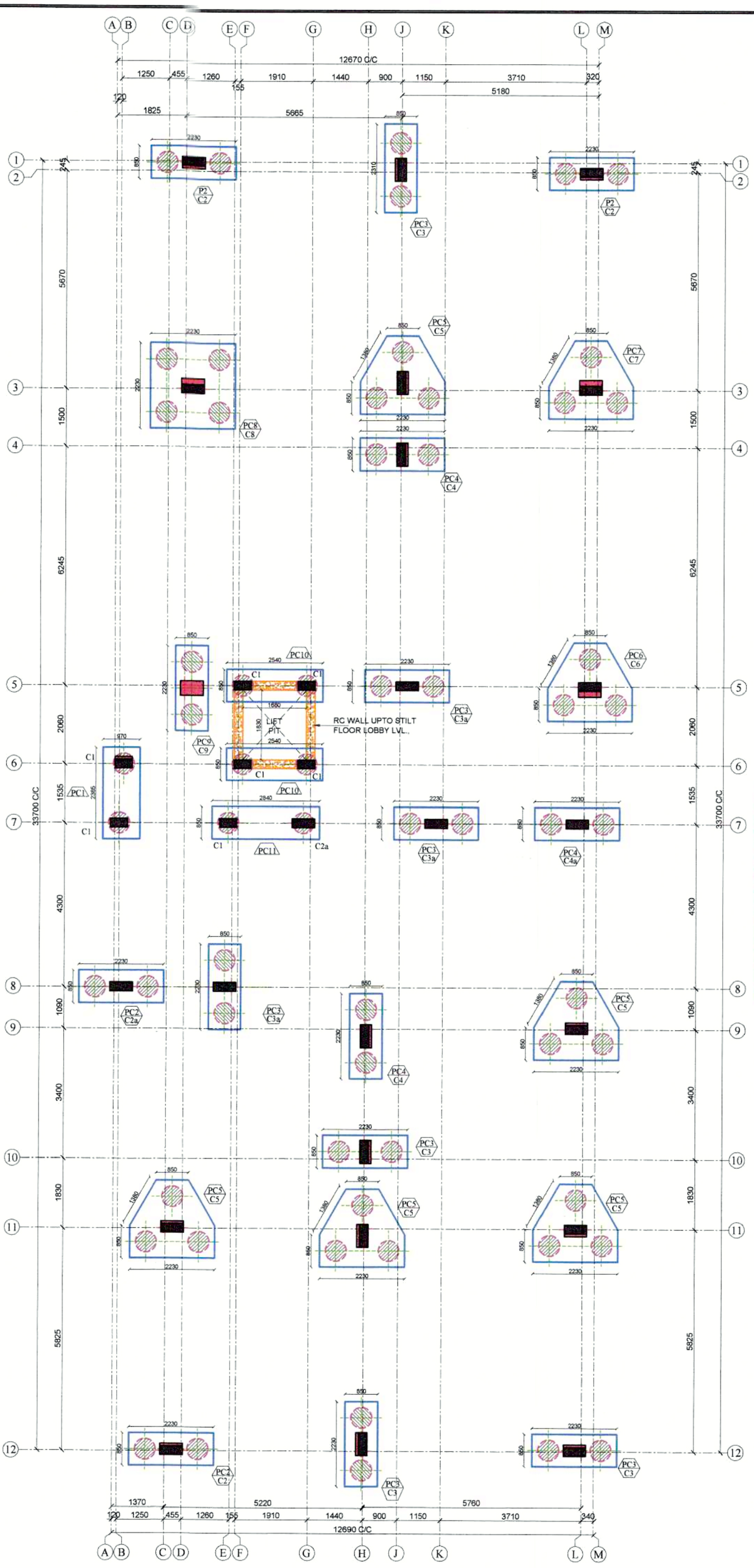
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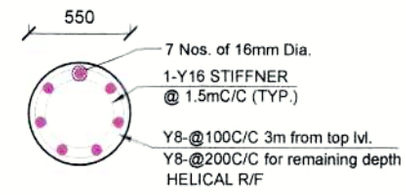


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FOUNDATION LAYOUT



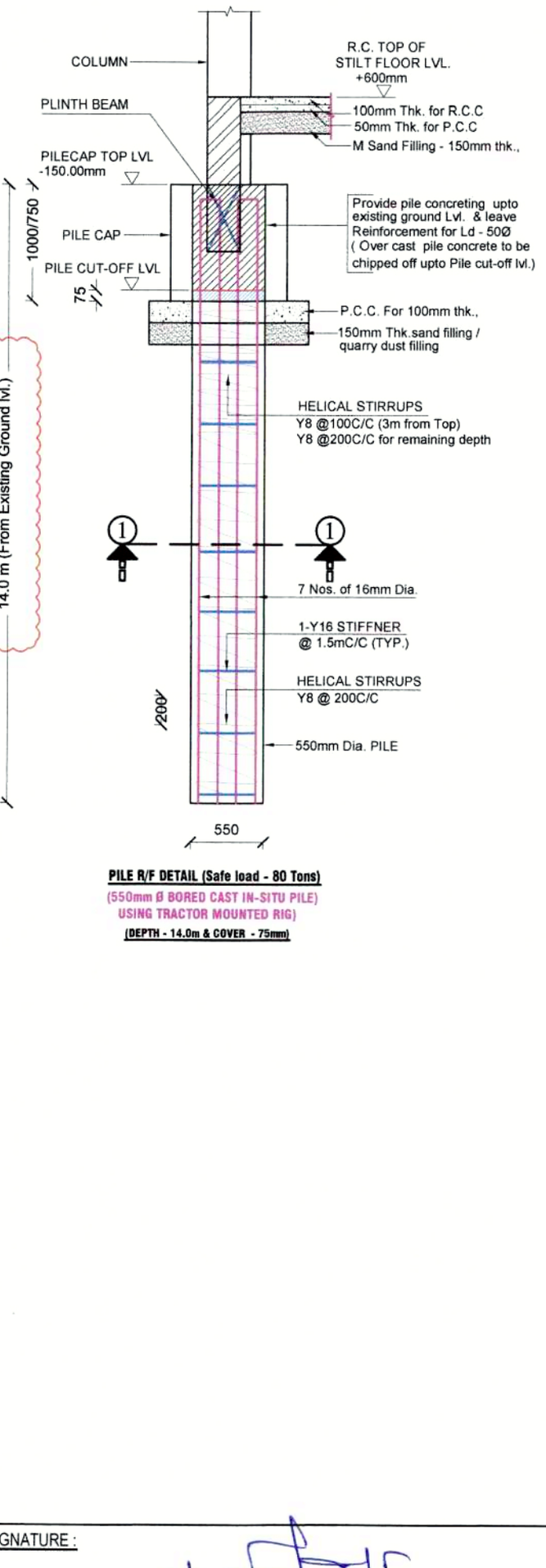
SECTION 1-1

PILE R/F DETAIL (Safe load - 80 Tons)

(550mm Ø BORED CAST IN-SITU PILE)

(USING TRACTOR MOUNTED RIG)

(DEPTH- 14.0m & COVER - 75mm)



PILE R/F DETAIL (Safe load - 80 Tons)

(550mm Ø BORED CAST IN-SITU PILE)

USING TRACTOR MOUNTED RIG)

(DEPTH - 14.0m & COVER - 75mm)

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK, GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

NOTES

STILT+5

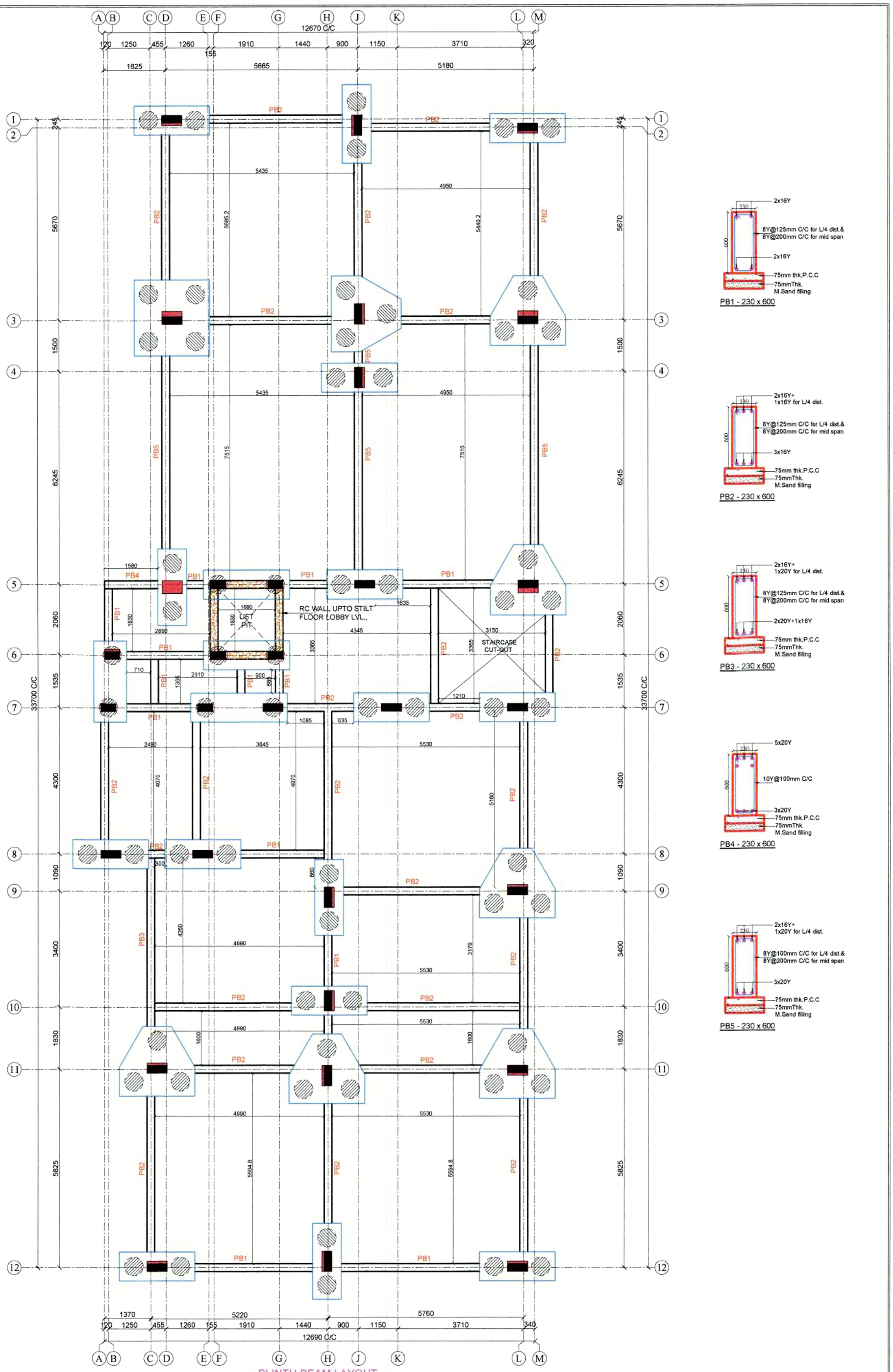
- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & ALL OTHER R.C.C WORKS,
- ALL REINFORCEMENTS ARE OF Fe500D GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) SLAB 20mm
  - (ii) COLUMN 40mm
  - (iii) BEAM 25mm
  - (iv) R.C WALL 25mm
  - (v) PILE 75mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

NORTH POINT :

N

SIGNATURE :

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154



PLINTH BEAM LAYOUT

PB1 - 230 x 600

PB2 - 230 x 600

PB3 - 230 x 600

PB4 - 230 x 600

PB5 - 230 x 600

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK, GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

NOTES

STILT+5

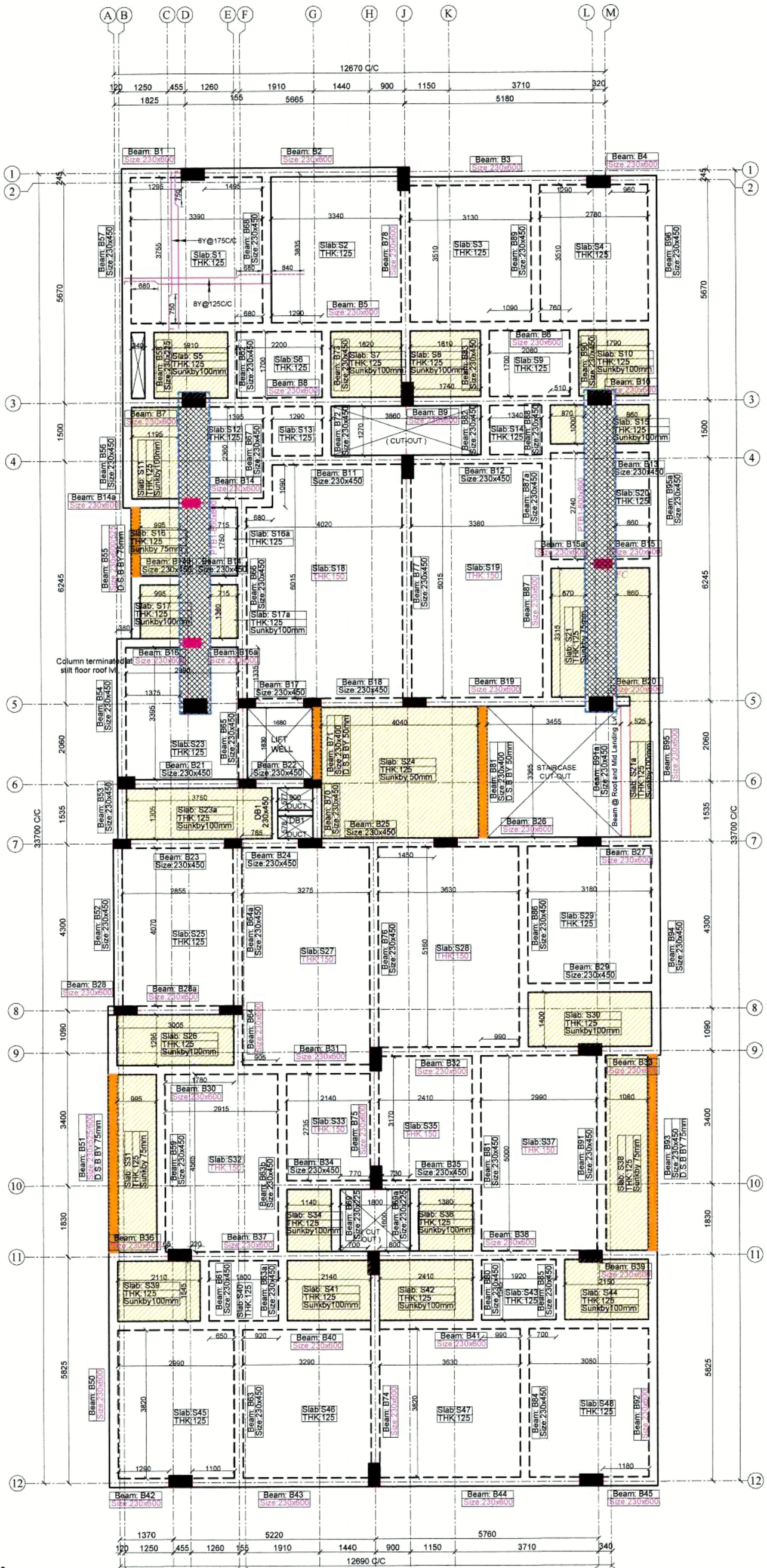
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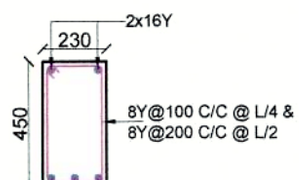
NORTH POINT :

N

SIGNATURE :

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CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
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Mobile: 9841269154





B18 - 230 X 450

STILT FLOOR ROOF BEAM LAYOUT

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK, GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

NOTES

STILT+5

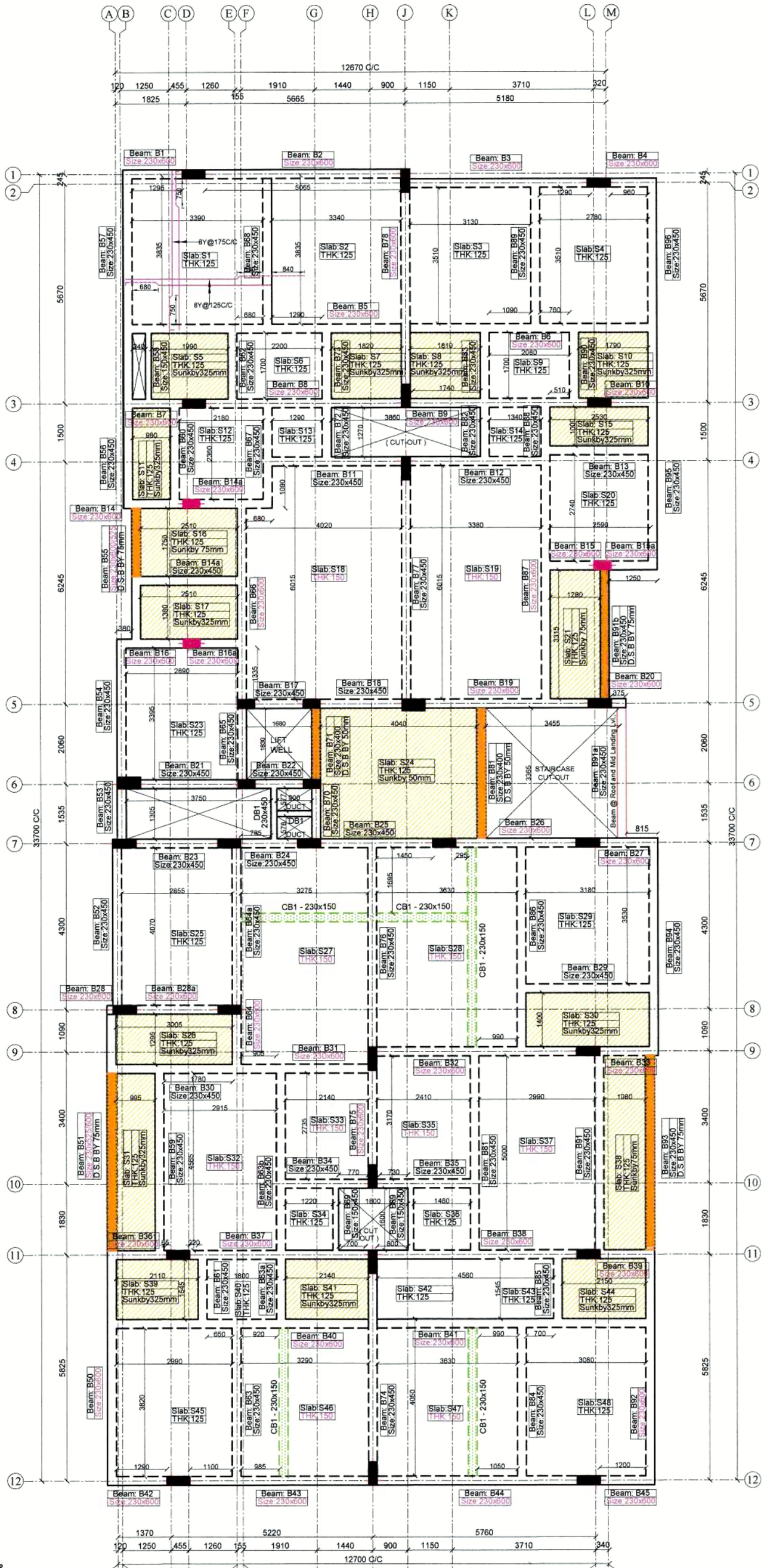
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  - (iv) R.C WALL 25mm
  - (v) PILE 75mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

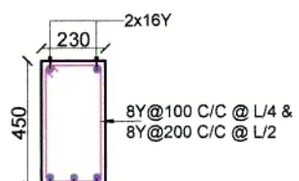
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SIGNATURE :

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CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
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Mobile: 9841269154





B18 - 230 X 450

FIRST FLOOR ROOF BEAM LAYOUT

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK, GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

NOTES

STILT+5

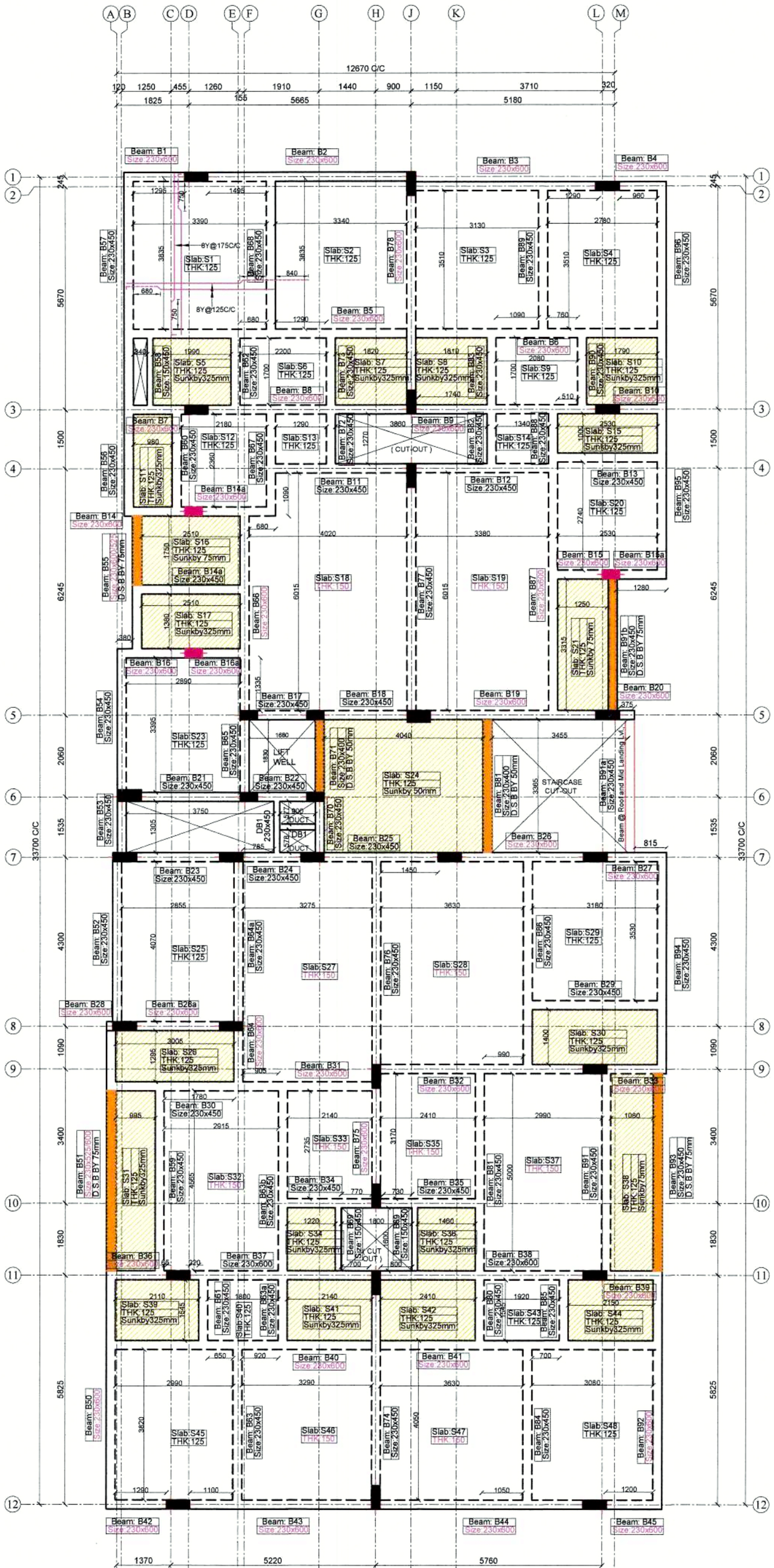
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  - (v) PILE 75mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

NORTH POINT :

N

SIGNATURE :

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CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
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Mobile: 9841269154



TYPICAL FLOOR ROOF BEAM LAYOUT
(2nd & 3rd AND 4th FLOOR)

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK, GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

NOTES

STILT+5

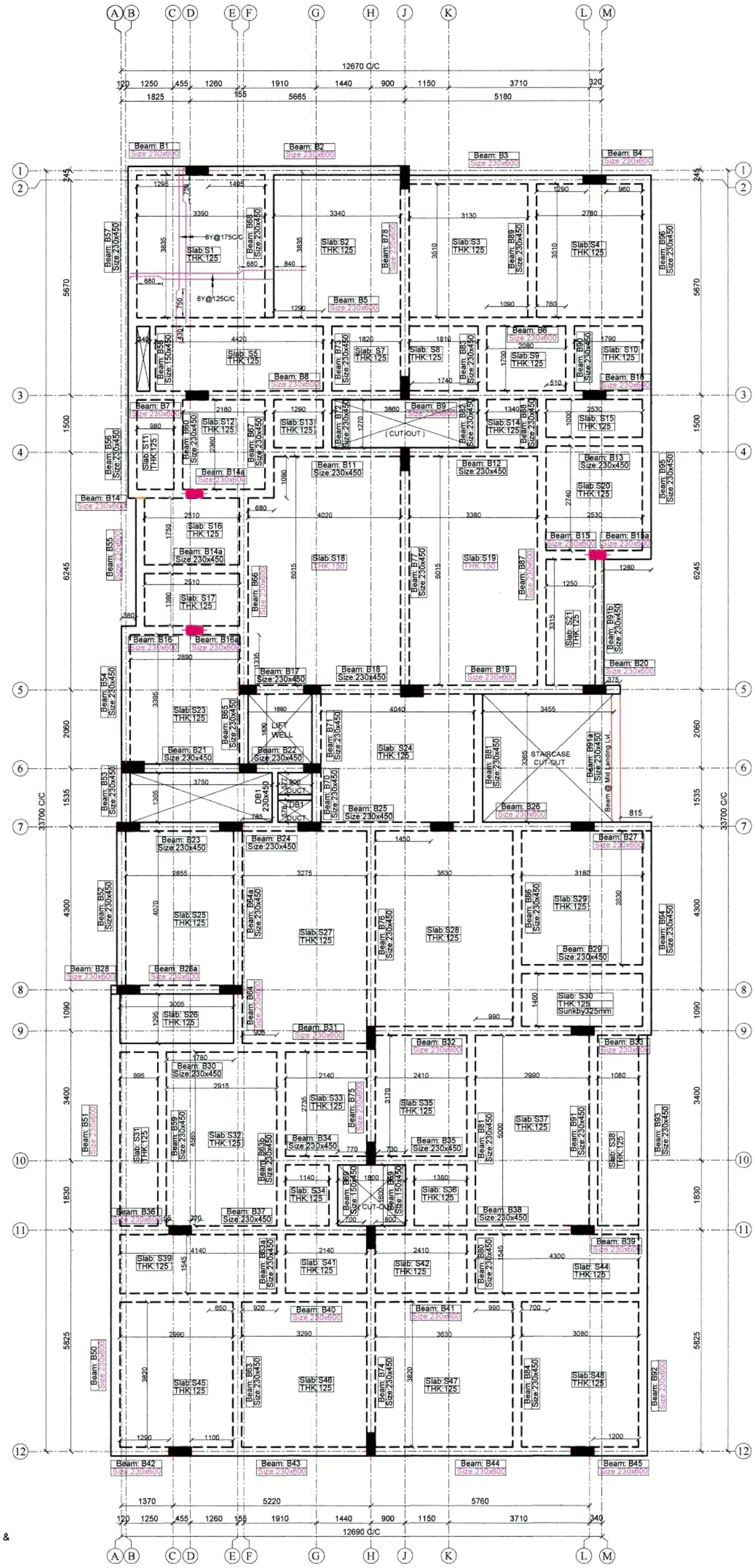
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  - (v) PILE 75mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

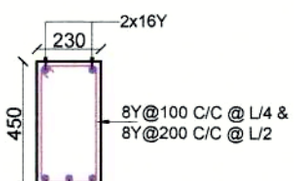
NORTH POINT :

N

SIGNATURE :

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SE / GR-I / 2019/03/024, QA/2019/04/021
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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154





B18 - 230 X 450

TERRACE FLOOR BEAM LAYOUT

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30 m) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT PLOT NO-209, OLD DOOR NO . 33, NEW DOOR NO.81, 4th MAIN ROAD, GANDHI NAGAR, ADYAR, CHENNAI-600020. COMPRISED IN OLD S.NO : 9 PART, AS PER DOCUMENT AND T.S.NO. 3 AS PER PATTA, BLOCK NO.37 OF KOTTUR VILLAGE, GUINDY TALUK, GREATER CHENNAI CORPORATION, ZONE : XIII, DIVISION NO - 173.

NOTES

STILT+5

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  - (iii) BEAM 25mm
  - (iv) R.C WALL 25mm
  - (v) PILE 75mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

NORTH POINT :

N

SIGNATURE :

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
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our services doesn't just end there

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



empowering your real estate decisions with smart tools

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

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

Zoning & Land Use Analysis

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

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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We're honored to be part of your real estate journey

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