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**************************************************
*                                                *
*           STAAD.Pro CONNECT Edition            *
*           Version  22.12.00.142                *
*           Proprietary Program of               *
*           Bentley Systems, Inc.                *
*           Date=    SEP 20, 2024                *
*           Time=    10:21:53                    *
*                                                *
*  Licensed to: C.Kannan                         *
**************************************************
```

```
     1. STAAD SPACE DXF IMPORT OF ARIHANT-VOC KOTTIVAKKAM_T[1]_23.11.2023
INPUT FILE: D:\LOGESH\STABILITY CERTIFICATE\ARIHANT - VOC KOTTIVAKKAM\A.. .STD
     2. START JOB INFORMATION
     3. ENGINEER DATE 9/20/2024
     4. JOB NAME PROPOSED RESIDENTIAL BUILDING IN PLOT NO. 5, BEARING NO. P/606, VOC -
     5. STREET, OLD MAHABALIPURAM ROAD, KOTTIVAKKAM, CHENNAI- 600041
     6. ENGINEER NAME KANNAN
     7. CHECKER NAME KANNAN
     8. APPROVED NAME KANNAN
     9. CHECKER DATE 9/20/2024
    10. APPROVED DATE 9/20/2024
    11. END JOB INFORMATION
    12. INPUT WIDTH 79
    13. UNIT MMS KN
    14. JOINT COORDINATES
    15. 1 0 0 0; 2 4299.9 0 0; 3 8550 0 0; 4 10550 0 0; 5 16750 0 0; 6 18750 0 0
    16. 7 22600 0 0; 8 27300 0 0; 9 0 3000 0; 10 4299.9 3000 0; 11 8550 3000 0
    17. 12 10550 3000 0; 13 16750 3000 0; 14 18750 3000 0; 15 22600 3000 0
    18. 16 27300 3000 0; 17 0 6000 0; 18 4299.9 6000 0; 19 8550 6000 0
    19. 20 10550 6000 0; 21 16750 6000 0; 22 18750 6000 0; 23 22600 6000 0
    20. 24 27300 6000 0; 25 0 9000 0; 26 4299.9 9000 0; 27 8550 9000 0
    21. 28 10550 9000 0; 29 16750 9000 0; 30 18750 9000 0; 31 22600 9000 0
    22. 32 27300 9000 0; 33 0 12000 0; 34 4299.9 12000 0; 35 8550 12000 0
    23. 36 10550 12000 0; 37 16750 12000 0; 38 18750 12000 0; 39 22600 12000 0
    24. 40 27300 12000 0; 41 0 -3000 0; 42 4299.9 -3000 0; 43 8550 -3000 0
    25. 44 10550 -3000 0; 45 16750 -3000 0; 46 18750 -3000 0; 47 22600 -3000 0
    26. 48 27300 -3000 0
    27. MEMBER INCIDENCES
    28. 1 1 2; 2 2 3; 3 3 4; 4 4 5; 5 5 6; 6 6 7; 7 7 8; 8 1 9; 9 2 10; 10 3 11
    29. 11 4 12; 12 5 13; 13 6 14; 14 7 15; 15 8 16; 16 9 10; 17 10 11; 18 11 12
    30. 19 12 13; 20 13 14; 21 14 15; 22 15 16; 23 9 17; 24 10 18; 25 11 19; 26 12 20
    31. 27 13 21; 28 14 22; 29 15 23; 30 16 24; 31 17 18; 32 18 19; 33 19 20; 34 20 21
    32. 35 21 22; 36 22 23; 37 23 24; 38 17 25; 39 18 26; 40 19 27; 41 20 28; 42 21 29
    33. 43 22 30; 44 23 31; 45 24 32; 46 25 26; 47 26 27; 48 27 28; 49 28 29; 50 29 30
    34. 51 30 31; 52 31 32; 53 25 33; 54 26 34; 55 27 35; 56 28 36; 57 29 37; 58 30 38
    35. 59 31 39; 60 32 40; 61 33 34; 62 34 35; 63 35 36; 64 36 37; 65 37 38; 66 38 39
    36. 67 39 40; 68 41 1; 69 42 2; 70 43 3; 71 44 4; 72 45 5; 73 46 6; 74 47 7
    37. 75 48 8
    38. DEFINE MATERIAL START
```

C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Thiruvalluvar Nagar, Chennai-600 020.

```
39. ISOTROPIC CONCRETE
40. E 21.7185
41. POISSON 0.17
42. DENSITY 2.35616E-08
43. ALPHA 1E-05
44. DAMP 0.05
45. G 9.28139
46. TYPE CONCRETE
47. STRENGTH FCU 0.027579
48. END DEFINE MATERIAL
49. MEMBER PROPERTY
50. 1 TO 7 16 TO 22 31 TO 37 46 TO 52 61 TO 67 PRIS YD 600 ZD 200
51. 8 TO 15 23 TO 30 38 TO 45 53 TO 60 68 TO 75 PRIS YD 600 ZD 200
52. CONSTANTS
53. MATERIAL CONCRETE ALL
54. SUPPORTS
55. 41 TO 48 FIXED
56. UNIT METER KN
57. DEFINE IS1893 2016 LOAD
58. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 2
59. SELFWEIGHT 1
60. MEMBER WEIGHT
61. 1 TO 7 16 TO 22 31 TO 37 46 TO 52 61 TO 67 UNI 12 0 0
62. 1 TO 7 16 TO 22 31 TO 37 46 TO 52 61 TO 67 UNI 30 0 0
63. DEFINE WIND LOAD

*** NOTE: If any floor diaphragm is present in the model Wind Load definition
          should be defined after Floor Diaphragm definition. Otherwise wind
          load generation may be unsuccessful during analysis.

64. TYPE 1 WIND 1
65. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
66. CUSTOM:PARAMS
67. !> END GENERATED DATA BLOCK
68. INT 1.35 1.49 HEIG  10  12
69. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQ X+
70. 1893 LOAD X 1
71. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ -X
72. 1893 LOAD X -1.
73. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQ +Z
74. 1893 LOAD Z 1
75. LOAD 4 LOADTYPE SEISMIC-H  TITLE EQ -Z
76. 1893 LOAD Z -1.
77. LOAD 5 LOADTYPE WIND  TITLE WIND +X
```



C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

DXF IMPORT OF ARIHANT-VOC KOTTIVAKKAM_T[1]_23.11.2023 -- PAGE NO. 3

```
  78. WIND LOAD X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  79. LOAD 6 LOADTYPE WIND  TITLE WIND -X
  80. WIND LOAD -X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  81. LOAD 7 LOADTYPE WIND  TITLE WIND +Z
  82. WIND LOAD Z 1 TYPE 1
  83. LOAD 8 LOADTYPE WIND  TITLE WIND -Z
  84. WIND LOAD -Z 1 TYPE 1
  85. LOAD 9 LOADTYPE LIVE  TITLE LIVE LOAD
  86. MEMBER LOAD
  87. 1 TO 7 16 TO 22 31 TO 37 46 TO 52 61 TO 67 UNI GY -12
  88. LOAD 10 LOADTYPE DEAD  TITLE DEAD LOAD
  89. SELFWEIGHT Y -1
  90. MEMBER LOAD
  91. 1 TO 7 16 TO 22 31 TO 37 46 TO 52 61 TO 67 UNI GY -30
  92. LOAD COMB 11 1.5(DL+IL)
  93. 9 1.5 10 1.5
  94. LOAD COMB 12 1.2(DL+IL+ELX)
  95. 9 1.5 10 1.2 1 1.2
  96. LOAD COMB 13 1.2(DL+IL-ELX)
  97. 9 1.2 10 1.2 2 1.2
  98. LOAD COMB 14 1.2(DL+IL+ELZ)
  99. 9 1.2 10 1.2 3 1.2
 100. LOAD COMB 15 1.2(DL+IL-ELZ)
 101. 9 1.2 10 1.2 4 1.2
 102. LOAD COMB 16 1.2(DL+IL+WLX)
 103. 9 1.2 10 1.2 5 1.2
 104. LOAD COMB 17 1.2(DL+IL-WLX)
 105. 10 1.2 6 1.2
 106. LOAD COMB 18 1.2(DL+IL+WLZ)
 107. 9 1.2 10 1.2 7 1.2
 108. LOAD COMB 19 1.2(DL+IL-WLZ)
 109. 9 1.2 10 1.2 8 1.2
 110. LOAD COMB 20 1.5(DL+ELX)
 111. 9 1.5 10 1.5 1 1.5
 112. LOAD COMB 21 1.5(DL-ELX)
 113. 9 1.5 10 1.5 2 1.5
 114. LOAD COMB 22 1.5(DL+ELZ)
 115. 9 1.5 10 1.5 3 1.5
 116. LOAD COMB 23 1.5(DL-ELZ)
 117. 10 1.5 4 1.5
 118. LOAD COMB 24 1.5(DL+WLX)
 119. 10 1.5 5 1.5
```

C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

DXF IMPORT OF ARIHANT-VOC KOTTIVAKKAM_T[1]_23.11.2023 -- PAGE NO. 4

```
120. LOAD COMB 25 1.5(DL-WLX)
121. 10 1.5 6 1.5
122. LOAD COMB 26 1.5(DL+WLZ)
123. 10 1.5 7 1.5
124. LOAD COMB 27 1.5(DL-WLZ)
125. 10 1.5 8 1.5
126. LOAD COMB 28 0.9 DL+ELX
127. 10 0.9 1 1.5
128. LOAD COMB 29 0.9 DL-ELX
129. 10 0.9 2 1.5
130. LOAD COMB 30 0.9 DL+ELZ
131. 10 0.9 3 1.5
132. LOAD COMB 31 0.9 DL-ELZ
133. 10 0.9 4 1.5
134. LOAD COMB 32 0.9 DL+WLX
135. 10 0.9 5 1.5
136. LOAD COMB 33 0.9 DL-WLX
137. 10 0.9 6 1.5
138. LOAD COMB 34 0.9 DL+WLZ
139. 10 0.9 7 1.5
140. LOAD COMB 35 0.9 DL-WLZ
141. 10 0.9 8 1.5
142. PERFORM ANALYSIS PRINT ALL
```

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

NUMBER OF JOINTS	48	NUMBER OF MEMBERS	75
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	8

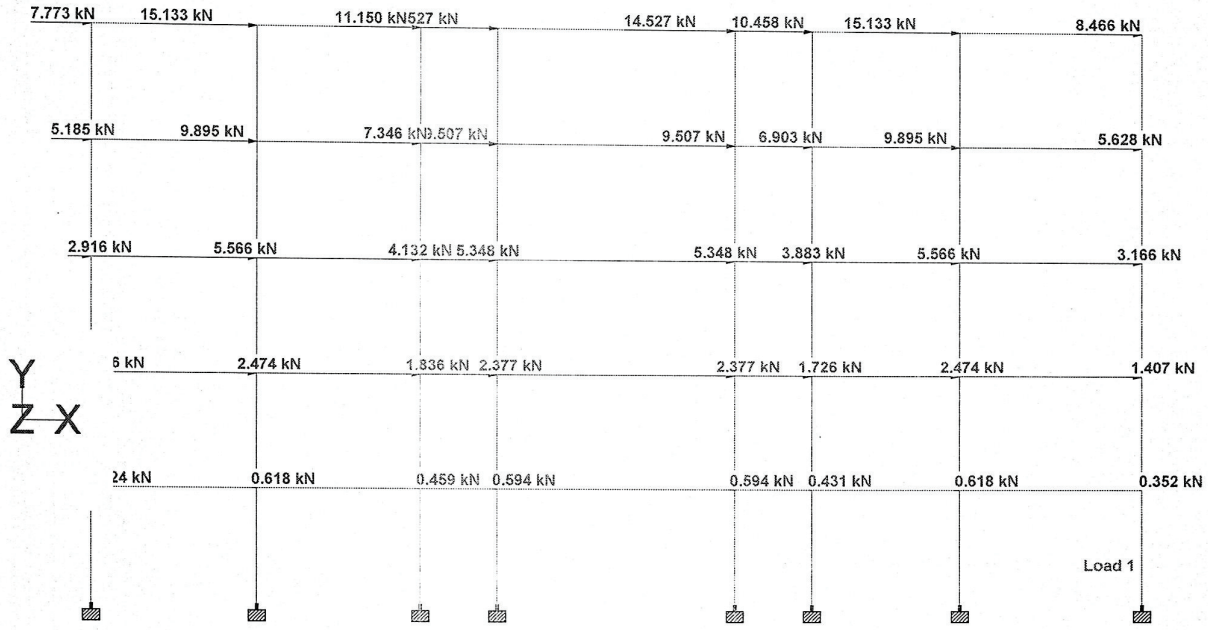
Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

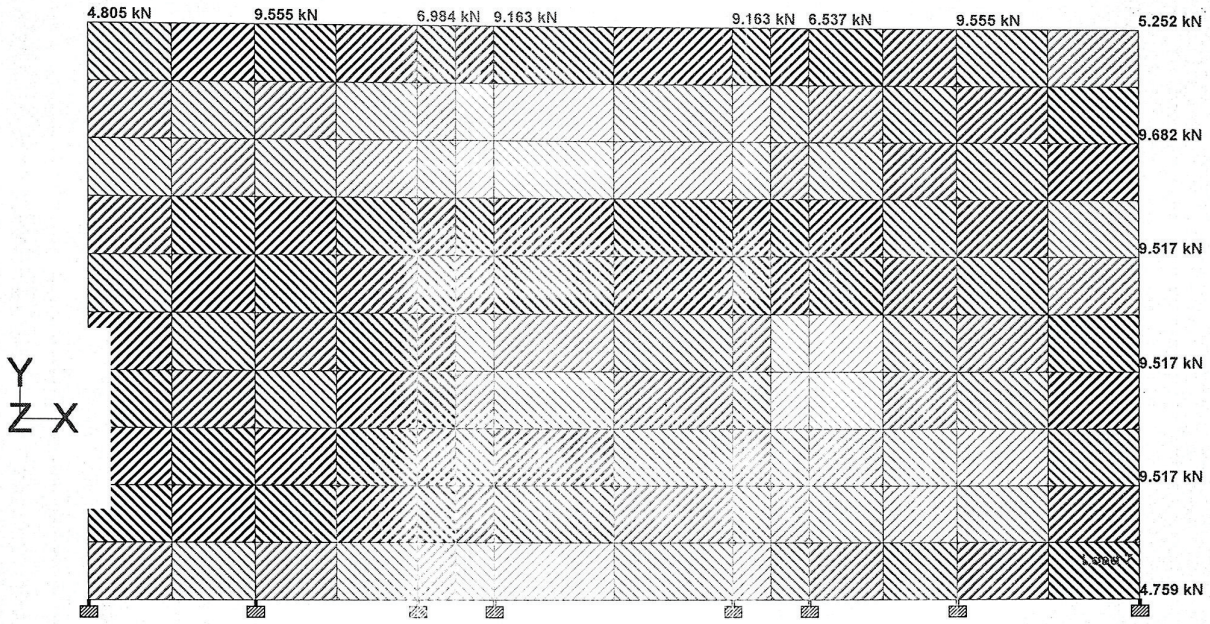
TOTAL PRIMARY LOAD CASES = 10, TOTAL DEGREES OF FREEDOM = 240
TOTAL LOAD COMBINATION CASES = 25 SO FAR.



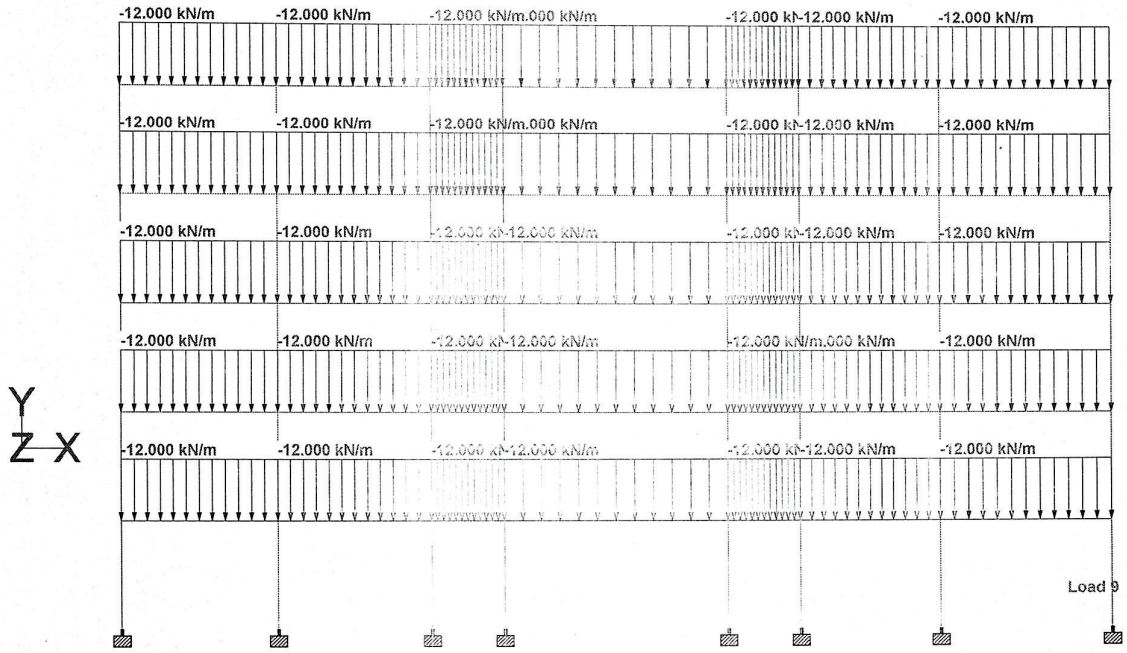
C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



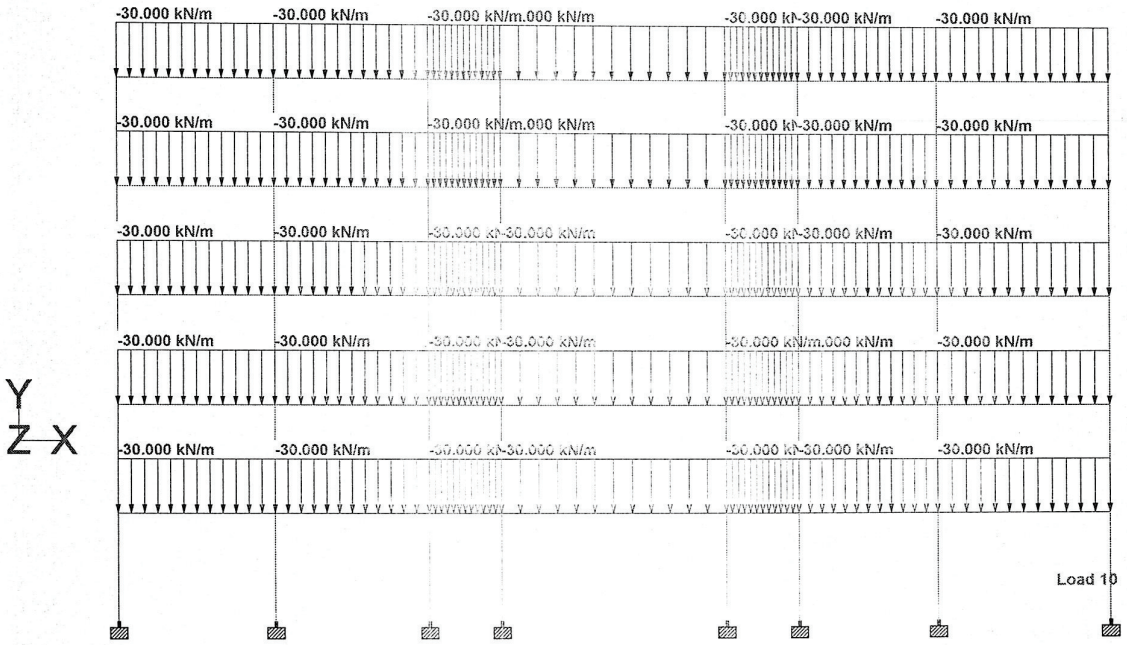
C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



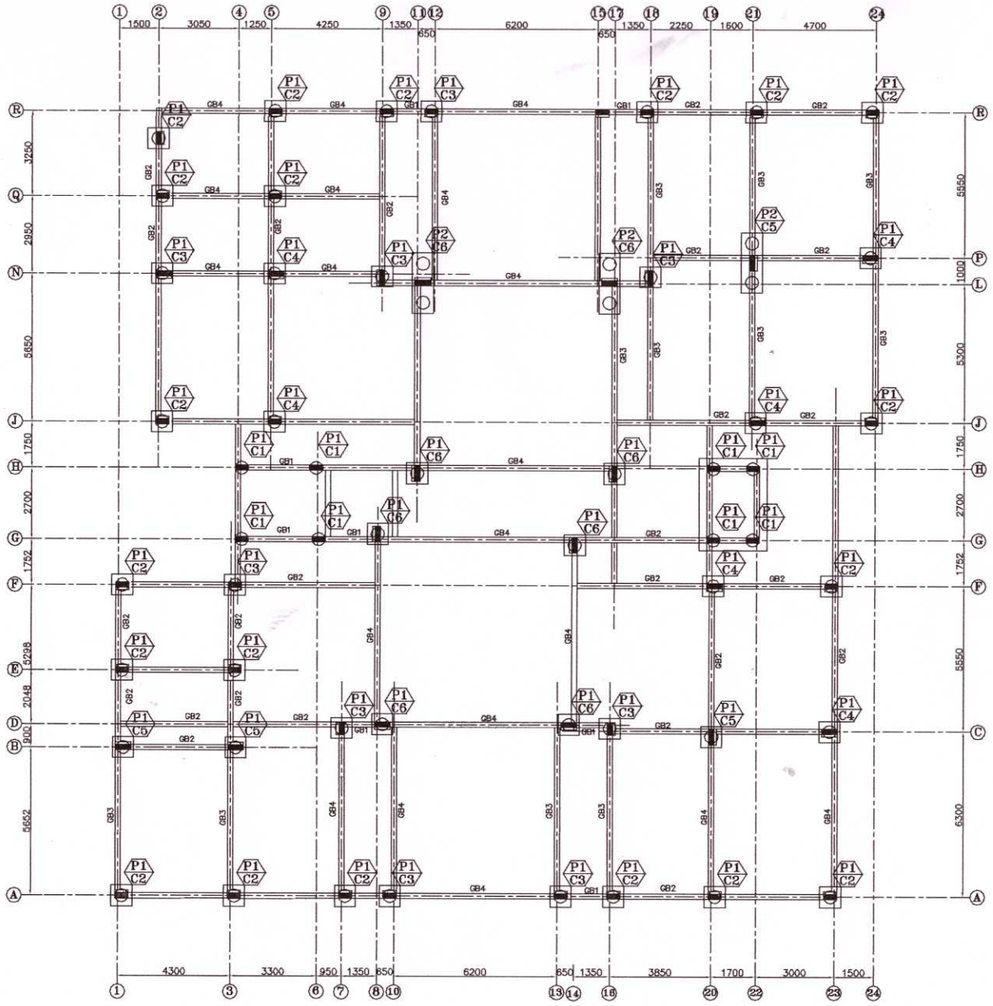
C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

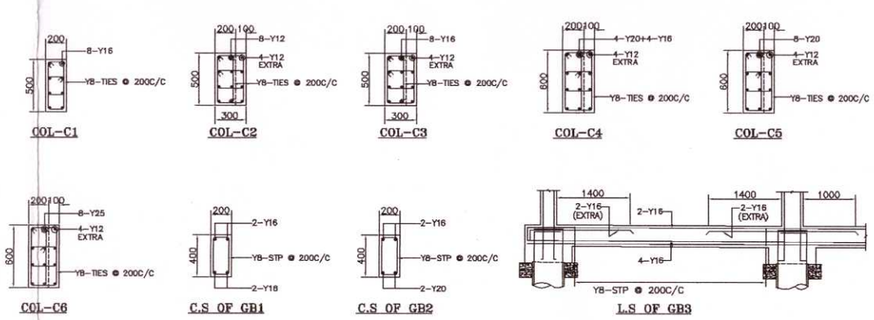


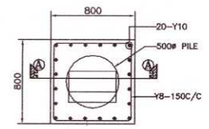
C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

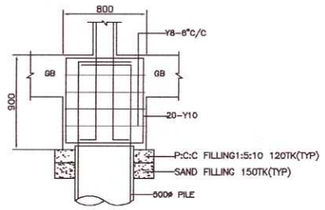


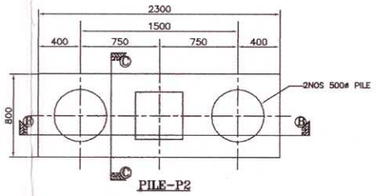
C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

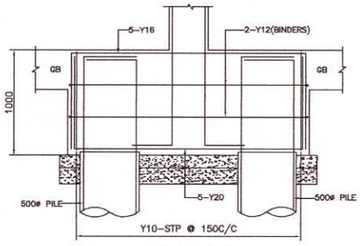


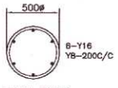


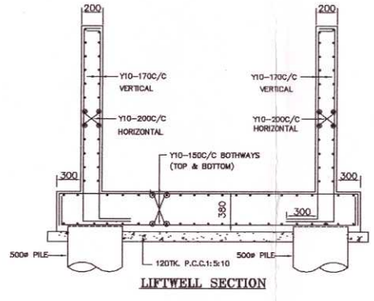


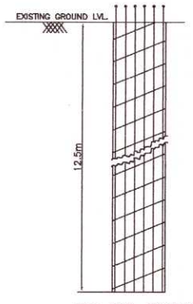


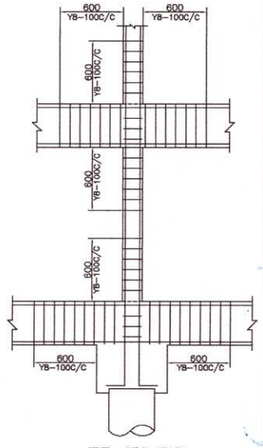












Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M30 for column & M25 for all other R.C.C works
3. Y Denotes TOR40 Steel confirming to I.S. 1786 – 2008. Grade – Fe 500
4. Clear cover to the main steel
   - 50 for Footings , Raft Slabs & Raft Beams.
   - 40 for Columns.
   - 25 for Lintel & Beams.
   - 15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. ----- Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for SBR plus three upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
15. Removal of formworks :
    - i) For Slabs :
    - a. Slabs spanning upto 4.5 m (15'-0") – 7 days
    - b. Slabs spanning over 4.5 m (15'-0") – 14 days
    - ii) For Beams and Arches :
    - c. Beams and Arches spanning upto 6 m (20'-0") –14days
    - d. Beams and Arches spanning over 6 m (20'-0") –21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED RESIDENTIAL APARTMENTS IN PLOT No.5, BEARING No.P/606, VOC STREET,OLD MAHABALIPURAM ROAD, IN PLOT No.5, BEARING No.P/606, KOTTIVAKKAM, CHENNAI -600041; COMPRISED IN OLD SURVEY Nos.278/10A & 278/10B,THEN SURVEY Nos.278/10A3 &278/10B3, AS PER PATTA PRESENT SURVEY Nos.278/10A3A,278/10A3B1, 278/10A3B2,278/10B3A,278/10B3B1 AND 278/10B3B2,SITUATED AT KOTTIVAKKAM VILLAGE,SHOLINGANALLUR TALUK,CHENNAI DISTRICT; LIES WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION.
ZONE: XIV; DIVISION:183

PILE FOUNDATION DETAIL

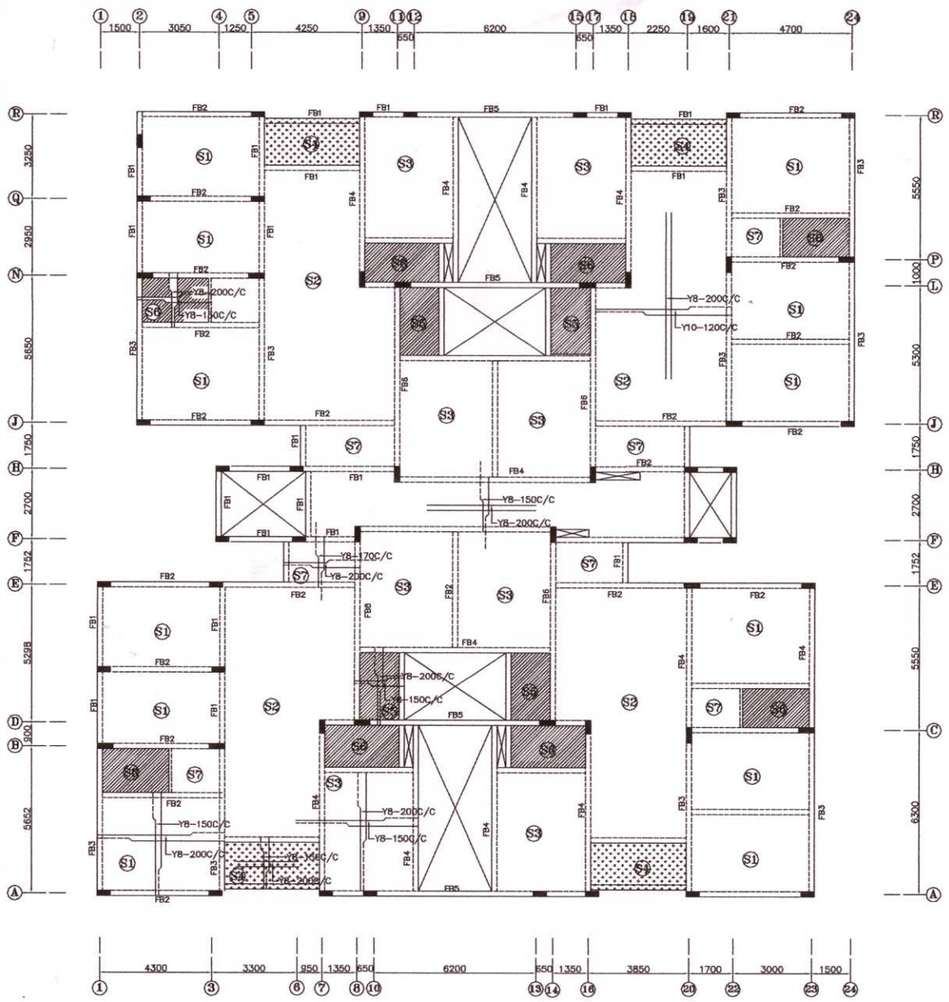
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DRAWN	SWATHI		DATE	23-11-2023

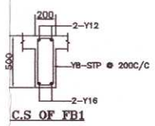
STRUCTURAL CONSULTANTS:

C. KANNAN, B.E., M.E., (Structure)
Structural Engineer,
CMDA Reg. No: SE/GR-1/19/02/002.
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

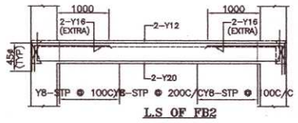
C.KANNAN, B.E., M.E.(STRUCTURE)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 09841249815.
E-MAIL:kannanks2007@gmail.com

FILE NAME : D/SWATHI/NOV/ARIHANT-KOTTIVAKKAM

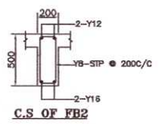




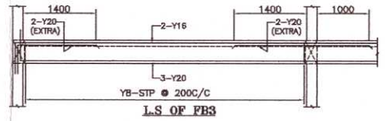
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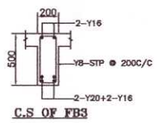
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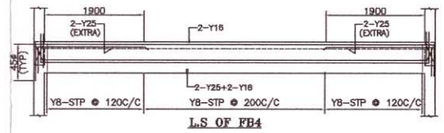
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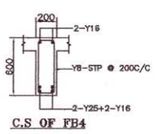
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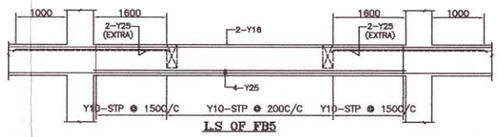
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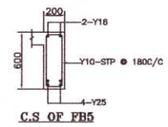
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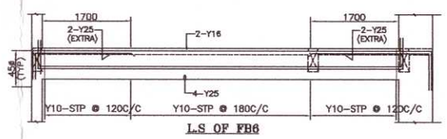
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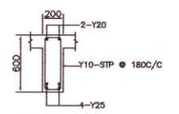
L.S OF FB5



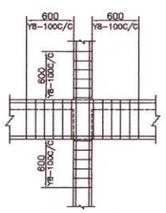
C.S OF FB5



L.S OF FB6



C.S OF FB6



TYP. SEC. FOB

STP. DETAILS

= 260 SUNKEN

= 75 SUNKEN

Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. Items shall be M30 for columns & M25 for all other R.C.C works
3. Y Denotes TOR40 Steel confirming to I.S. 1786 – 2008. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. ------ Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided In Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for Safe bearing pressure of 20 T/Sq.m at 1.5m below NGL.
14. For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'-0") – 7 days
    b. Slabs spanning over 4.5 m (15'-0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'-0") –14days
    d. Beams and Arches spanning over 6 m (20'-0") –21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED RESIDENTIAL BUILDING IN PLOT No.5, BEARING No.P/606, VOC STREET,OLD MAHABALIPURAM ROAD, IN PLOT No.5, BEARING No.P/606, KOTTIVAKKAM, CHENNAI –600041; COMPRISED IN OLD SURVEY Nos.278/10A & 278/10B,THEN SURVEY Nos.278/10A3 &278/10B3, AS PER PATTA PRESENT SURVEY Nos.278/10A3A,278/10A3B1, 278/10A3B2,278/10B3A,278/10B3B1 AND 278/10B3B2,SITUATED AT KOTTIVAKKAM VILLAGE,SHOLINGANALLUR TALUK,CHENNAI DISTRICT,LIES WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION. ZONE–XIV, DIVISION–183

TYPICAL FLOOR ROOF DETAIL

DESIGNED	KANNAN	SCALE	1 : 100
DRAWN	SWATHI	DATE	23-11-2023

STRUCTURAL CONSULTANTS:

C. KANNAN, B.E., M.E., (Structure)
Structural Engineer,
CMDA Reg. No: SE/GR-I/19/02/002.
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:277 &
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannanids2007@gmail.com

FILE NAME : D/SWATHI/NOV/ARIHANT–KOTTIVAKAM



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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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