

PAGE NO. 1

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*****
*
* STAAD.Pro CONNECT Edition
* Version 22.12.00.142
* Proprietary Program of
* Bentley Systems, Inc.
* Date= DEC 27, 2023
* Time= 14:46:26
*
*
* Licensed to: C.Kannan
* *****

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```

1. STAAD SPACE
INPUT FILE: C:\Users\LS-DCI5-1018-02\Desktop\AGAN\JKB\STAAD Stability\Jkb.STD
2. START JOB INFORMATION
3. ENGINEER DATE 27-DEC-23
4. JOB NAME PROPOSED RESIDENTIAL BUILDING AT DOOR NO. 71, 71/2 AT GANAPATHY -
5. STREET, WEST MAMBALAM, CHENNAI- 600033
6. ENGINEER NAME KANNAN
7. CHECKER NAME KANNAN
8. APPROVED NAME KANNAN
9. CHECKER DATE 12/27/2023
10. APPROVED DATE 12/27/2023
11. END JOB INFORMATION
12. INPUT WIDTH 79
13. SET NL 250
14. UNIT MMS KN
15. JOINT COORDINATES

```

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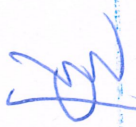
16. 1 0 0; 2 5590 0 -0.0408888; 4 13760 0 -0.0406504; 7 20050 0 -0.0408888
17. 8 0 3000 0; 9 5590 3000 -0.0408888; 11 13760 3000 -0.0406504
18. 13 20050 3000 -0.0408888; 14 0 6000 0; 15 5590 6000 -0.0408888
19. 17 13760 6000 -0.0406504; 19 20050 6000 -0.0408888; 20 0 9000 0
20. 21 5590 9000 -0.0408888; 23 13760 9000 -0.0406504; 25 20050 9000 -0.0408888
21. 26 0 12000 0; 27 5590 12000 -0.0408888; 29 13760 12000 -0.0406504
22. 31 20050 12000 -0.0408888; 32 0 15000 0; 33 5590 15000 -0.0408888
23. 35 13760 15000 -0.0406504; 37 20050 15000 -0.0408888; 38 0 18000 0
24. 39 5590 18000 -0.0408888; 41 13760 18000 -0.0406504; 43 20050 18000 -0.0408888
25. 44 0 -2000 0; 45 5590 -2000 -0.0408888; 46 13760 -2000 -0.0406504
26. 47 20050 -2000 -0.0408888

```

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27. MEMBER INCIDENCES
28. 1 1 2; 2 2 4; 3 4 7; 4 8 9; 5 9 11; 6 11 13; 7 14 15; 8 15 17; 9 17 19
29. 10 20 21; 11 21 23; 12 23 25; 13 26 27; 14 27 29; 15 29 31; 16 32 33; 17 33 35
30. 18 35 37; 19 38 39; 20 39 41; 21 41 43; 22 44 1; 23 1 8; 24 8 14; 25 14 20
31. 26 20 26; 27 26 32; 28 32 38; 29 45 2; 30 2 9; 31 9 15; 32 15 21; 33 21 27
32. 34 27 33; 35 33 39; 42 46 4; 43 4 11; 44 11 17; 45 17 23; 46 23 29; 47 29 35
33. 48 35 41; 55 47 7; 56 7 13; 57 13 19; 58 19 25; 59 25 31; 60 31 37; 61 37 43
34. UNIT METER KN
35. DEFINE MATERIAL START
36. ISOTROPIC CONCRETE
37. E 2.17185E+07
38. POISSON 0.17

```


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.

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39. DENSITY 23.5616
40. ALPHA 1E-05
41. DAMP 0.05
42. G 9.28139E+06
43. TYPE CONCRETE
44. STRENGTH FCU 27579
45. END DEFINE MATERIAL
46. MEMBER PROPERTY
47. 22 TO 35 42 TO 48 55 TO 61 PRIS YD 0.45 ZD 0.23
48. 1 TO 21 PRIS YD 0.45 ZD 0.23
49. CONSTANTS
50. BETA 90 MEMB 22 TO 35 42 TO 48 55 TO 61
51. MATERIAL CONCRETE ALL
52. UNIT MMS KN
53. SUPPORTS
54. 44 TO 47 FIXED
55. UNIT METER KN
56. 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.

```

57. TYPE 1 WIND 1
58. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
59. CUSTOM:PARAMS
60. !> END GENERATED DATA BLOCK
61. INT 1.22 1.35 1.48 HEIG 10 15 18
62. EXP 1 JOINT 1 2 4 7 TO 9 11 13 TO 15 17 19 TO 21 23 25 TO 27 29 31 TO 33 35 -
63. 37 TO 39 41 43 TO 47
64. DEFINE IS1893 2016 LOAD
65. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 2
66. SELFWEIGHT 1
67. MEMBER WEIGHT
68. 1 TO 21 UNI 25 0 0
69. 1 TO 21 UNI 12 0 0
70. LOAD 1 LOADTYPE SEISMIC-H TITLE EQX
71. 1893 LOAD X 1
72. LOAD 2 LOADTYPE SEISMIC-H TITLE EQX
73. 1893 LOAD X -1.
74. LOAD 3 LOADTYPE SEISMIC-V TITLE EQZ
75. 1893 LOAD Z 1
76. LOAD 4 LOADTYPE SEISMIC-V TITLE EQZ
77. 1893 LOAD Z -1.

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78. LOAD 5 LOADTYPE WIND TITLE WIND +X
 79. WIND LOAD X 1 TYPE 1
 80. LOAD 6 LOADTYPE WIND TITLE WIND -X
 81. WIND LOAD -X 1 TYPE 1

*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.

82. LOAD 7 LOADTYPE WIND TITLE WIND +Z
 83. WIND LOAD Z 1 TYPE 1
 84. LOAD 8 LOADTYPE WIND TITLE WIND -Z
 85. WIND LOAD -Z 1 TYPE 1
 86. LOAD 9 LOADTYPE LIVE TITLE L.L

87. MEMBER LOAD

88. 1 TO 21 UNI GY -12

89. LOAD 10 LOADTYPE DEAD TITLE D.L

90. MEMBER LOAD

91. 1 TO 21 UNI GY -25

92. SELFWEIGHT Y -1

93. LOAD COMB 11 1.5(DL+IL)

94. 9 1.5 10 1.5

95. LOAD COMB 12 1.2(DL+IL+ELX)

96. 9 1.5 10 1.2 1 1.2

97. LOAD COMB 13 1.2(DL+IL-ELX)

98. 9 1.2 10 1.2 2 1.2

99. LOAD COMB 14 1.2(DL+IL+ELZ)

100. 9 1.2 10 1.2 3 1.2

101. LOAD COMB 15 1.2(DL+IL-ELZ)

102. 9 1.2 10 1.2 4 1.2

103. LOAD COMB 16 1.2(DL+IL+WLX)

104. 9 1.2 10 1.2 5 1.2

105. LOAD COMB 17 1.2(DL+IL-WLX)

106. 10 1.2 6 1.2

107. LOAD COMB 18 1.2(DL+IL+WLZ)

108. 9 1.2 10 1.2 7 1.2

109. LOAD COMB 19 1.2(DL+IL-WLZ)

110. 9 1.2 10 1.2 8 1.2

111. LOAD COMB 20 1.5(DL+ELX)

112. 9 1.5 10 1.5 1 1.5

113. LOAD COMB 21 1.5(DL-ELX)

114. 9 1.5 10 1.5 2 1.5

115. LOAD COMB 22 1.5(DL+ELZ)

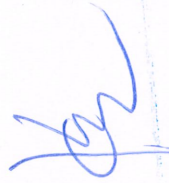
116. 9 1.5 10 1.5 3 1.5

117. LOAD COMB 23 1.5(DL-ELZ)

118. 10 1.5 4 1.5

119. LOAD COMB 24 1.5(DL+WLX)

120. 10 1.5 5 1.5


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

PROBLEM STATISTICS

NUMBER OF JOINTS	32	NUMBER OF MEMBERS	49
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	4

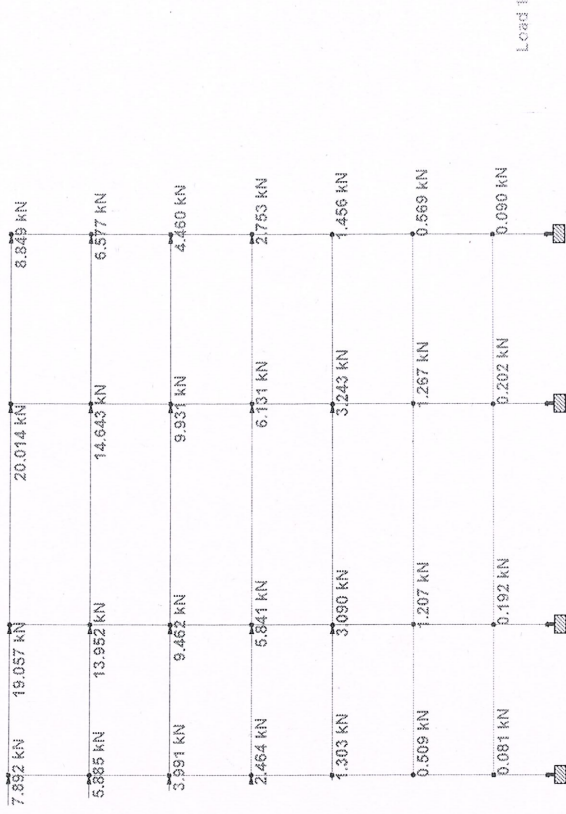
Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL	PRIMARY LOAD CASES =	10,	TOTAL DEGREES OF FREEDOM =	168
TOTAL	LOAD COMBINATION CASES =	25	SO FAR.	



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Y
Z
X

C. KANNAN, B.E., M.E., (Structure)
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Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



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CONNECTED User: Kannan Chinmasamy

Job Title Proposed Residential Building at Door No. 71, 71/2 at Ganapathy Street,
West Mambalam, Chennai- 600033

Client

Job No

Sheet No

1

Rev

Part

Ref

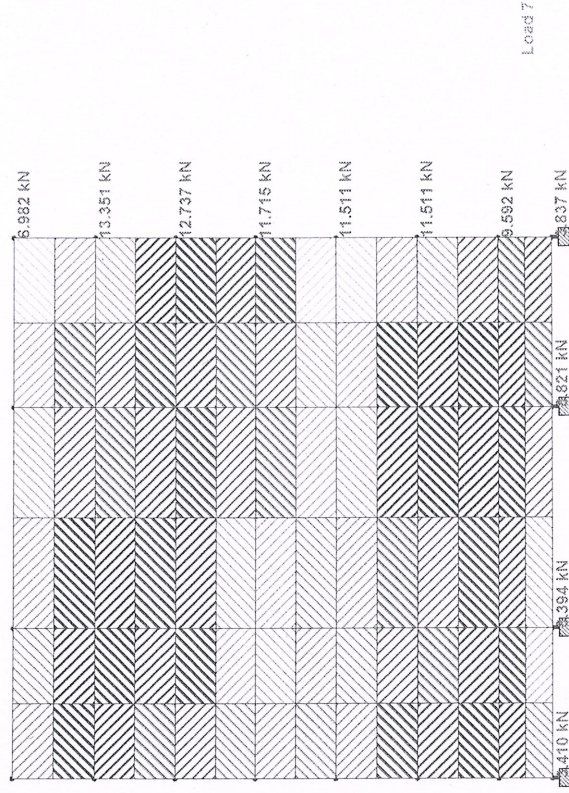
By Kannan

Date 27-Dec-23

Chd Kannan

File Jkb.STD

Date/Time 27-Dec-2023 14:46



Y
Z-X



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Client

By Kannan

Date 27-Dec-23

Chd Kannan

File Jkb.STD

Date/Time 27-Dec-2023 14:46

Job No

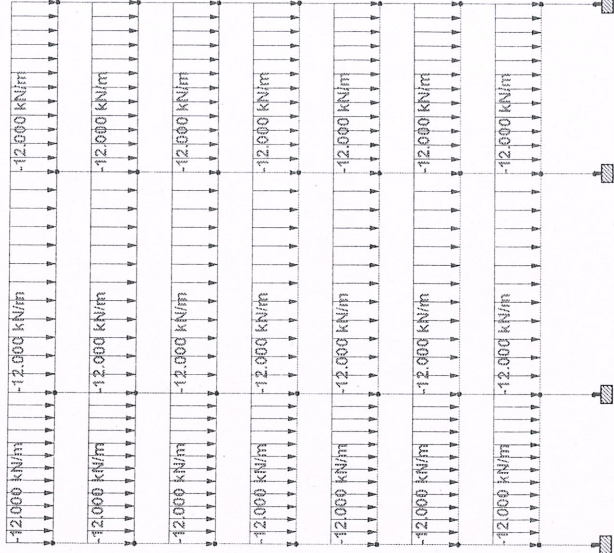
Sheet No

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Rev

Part

Ref



Load 9

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West Mambalam, Chennai-600033

Client

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Date/Time	27-Dec-2023 14:46
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Job No

Sheet No

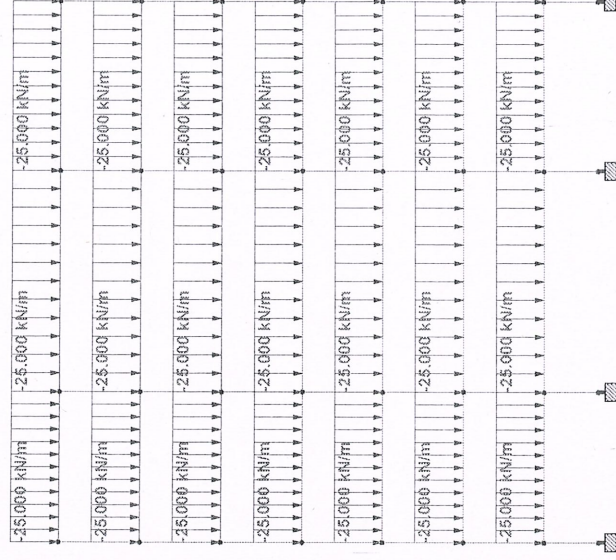
1

Rev

Part

Ref

By **Kannan** Date **27-Dec-23** Chd **Kannan**



Load 10



C. KANNAN, B.E., M.E., (Structure)
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