

PAGE NO. 1

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*
*      STAAD.Pro CONNECT Edition
*      Version 22.00.00.15
*      Proprietary Program of
*      Bentley Systems, Inc.
*      Date=   DEC 18, 2025
*      Time=   10:14: 4
*
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1. STAAD SPACE
INPUT FILE: I:\1.MISCELLANEOUS\STABILITY CERTIFICATE\UC-CHETTIPALAYAM\CHETTIPALAYAM.STD
2. START JOB INFORMATION
3. JOB NAME THE PROPOSED CONSTRUCTION OF RESIDENTIAL NON-HIGH RISE GROUP
4. *DEVELOPMENT BUILDING CONSISTS OF 21 BLOCKS, BLOCK 1 TO 20: GROUND FLOOR +
5. *FIRST FLOOR + SECOND FLOOR (PARTLY), TOTALLY 20 D/U, BLOCK 21: (AMENITY
6. *BLOCK) - GROUND FLOOR COMPRISED IN S.NOS . 139/3A2, 139/3B, 139/4, 139/5,
7. *139/6, 140/2 & 140/3 OF CHETTIPALAYAM VILLAGE, TIRUPPUR NORTH TALUK,
8. *TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR DISTRICT.
9. ENGINEER NAME SURESH
10. CHECKER NAME SURESH
11. APPROVED NAME SURESH
12. ENGINEER DATE 12/18/2025
13. CHECKER DATE 12/18/2025
14. APPROVED DATE 12/18/2025
15. END JOB INFORMATION
16. INPUT WIDTH 79
17. UNIT METER KN
18. JOINT COORDINATES
19. 1 -10.26 -1.45 0; 25 -10.26 -4.45 0; 26 -5.46 -1.45 0; 27 -5.46 -4.45 0
20. 36 -10.26 1.55 0; 37 -5.46 1.55 0; 66 -14.44 -1.45 0; 67 -14.44 -4.45 0
21. 68 -14.44 1.55 0; 69 -19.54 -1.45 0; 70 -19.54 -4.45 0; 71 -19.54 1.55 0
22. 72 -10.26 4.55 0; 73 -5.46 4.55 0; 74 -14.44 4.55 0; 75 -19.54 4.55 0
23. MEMBER INCIDENCES
24. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 55 1 36; 56 26 37; 61 36 37; 111 66 67
25. 112 66 1; 113 67 25; 114 66 68; 115 68 36; 116 69 70; 117 69 66; 118 70 67
26. 119 69 71; 120 71 68; 121 36 72; 122 37 73; 123 72 73; 124 68 74; 125 74 72
27. 126 71 75; 127 75 74
28. DEFINE MATERIAL START
29. ISOTROPIC CONCRETE
30. E 2.17185E+07
31. POISSON 0.17
32. DENSITY 23.5616
33. ALPHA 1E-05
34. DAMP 0.05
35. END DEFINE MATERIAL
36. MEMBER PROPERTY INDIAN
37. 40 41 61 112 113 115 117 118 120 123 125 127 PRIS YD 0.6 ZD 0.2
38. MEMBER PROPERTY INDIAN

```



Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer

Plot No. 555, VGP Layout, Mullai Street,
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39. 39 42 55 56 111 114 116 119 121 122 124 126 PRIS YD 0.6 ZD 0.2
 40. CONSTANTS
 41. MATERIAL CONCRETE ALL
 42. SUPPORTS
 43. 25 27 67 70 FIXED
 44. DEFINE 1893 LOAD
 45. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
 46. MEMBER WEIGHT
 47. 39 TO 42 55 56 61 111 TO 127 UNI -14.5
 48. 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.

49. TYPE 1
 50. INT 0.673 1.03335 1.3537 1.65375 HEIG 10 30 50 100
 51. EXP 1 JOINT 1 25 TO 27 36 37 66 TO 75
 52. LOAD 1 LOADTYPE NONE TITLE SLX1
 53. 1893 LOAD X 1
 54. LOAD 2 LOADTYPE NONE TITLE SLZ1
 55. 1893 LOAD Z 1
 56. LOAD 3 LOADTYPE DEAD TITLE DL
 57. SELFWEIGHT Y -1
 58. MEMBER LOAD
 59. 40 61 112 115 117 120 123 125 127 UNI GY -25
 60. LOAD 4 LOADTYPE LIVE TITLE LL
 61. MEMBER LOAD
 62. 40 61 112 115 117 120 123 125 127 UNI GY -15
 63. LOAD 7 LOADTYPE WIND TITLE WLZ1
 64. WIND LOAD Z 1 TYPE 1
 65. LOAD 8 LOADTYPE WIND TITLE WLZ2
 66. WIND LOAD Z -1 TYPE 1
 67. LOAD COMB 9 1.5(DL+LL)
 68. 3 1.5 4 1.5
 69. LOAD COMB 10 1.2(DL+LL+SLX)
 70. 3 1.2 4 1.2 1 1.2
 71. LOAD COMB 11 1.2(DL+LL+SLZ)
 72. 3 1.2 4 1.2 2 1.2
 73. LOAD COMB 14 1.2(DL+LL+WLZ1)
 74. 3 1.2 4 1.2 7 1.2
 75. LOAD COMB 15 1.2(DL+LL+WLZ2)
 76. 3 1.2 4 1.2 8 1.2
 77. LOAD COMB 16 1.5(DL+SLX)



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78. 3 1.5 1 1.5
79. LOAD COMB 17 1.5(DL+SLZ)
80. 3 1.5 2 1.5
81. LOAD COMB 20 1.5(DL+WZ1)
82. 3 1.5 7 1.5
83. LOAD COMB 21 1.5(DL+WZ2)
84. 3 1.5 8 1.5
85. LOAD COMB 22 0.9DL+1.5SLX
86. 3 0.9 1 1.5
87. LOAD COMB 23 0.9DL+1.5SLZ
88. 3 0.9 2 1.5
89. LOAD COMB 26 0.9DL+1.5WZ1
90. 3 0.9 7 1.5
91. LOAD COMB 27 0.9DL+1.5WZ2
92. 3 0.9 8 1.5
93. PERFORM ANALYSIS

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PROBLEM STATISTICS

NUMBER OF JOINTS	16	NUMBER OF MEMBERS	24
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 OUT-OF-CORE BASIC SOLVER

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ORIGINAL/FINAL BAND-WIDTH= 8/ 4/ 24 DOF
TOTAL PRIMARY LOAD CASES = 6, TOTAL DEGREES OF FREEDOM = 72
TOTAL LOAD COMBINATION CASES = 13 SO FAR.
SIZE OF STIFFNESS MATRIX = 2 DOUBLE KILO-WORDS
REQD/AVAIL. DISK SPACE = 12.1/1742804.4 MB

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**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.

```

*****
* UNITS - KN METE *
* TIME PERIOD FOR X 1893 LOADING = 0.38971 SEC *
* SA/G PER 1893= 1.250, LOAD FACTOR= 1.000 *
* VB PER 1893= 0.0333 X 1338.64= 44.62 KN *
*****

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*****
* UNITS - KN    METE
* TIME PERIOD FOR Z 1893 LOADING =    0.38971 SEC
* SA/G PER 1893=    1.250, LOAD FACTOR= 1.000
* VB PER 1893=    0.0333 X    1338.64=    44.62 KN
*
*****

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94. FINISH

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

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*
* Details about additional assistance from
* Bentley and Partners can be found at program menu
* Help->Technical Support
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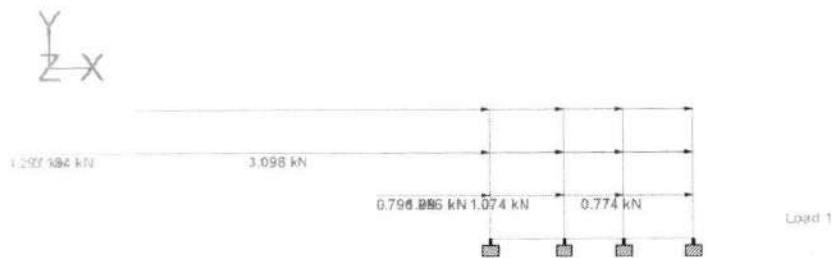
Date 12/18/2025

Chd Suresh

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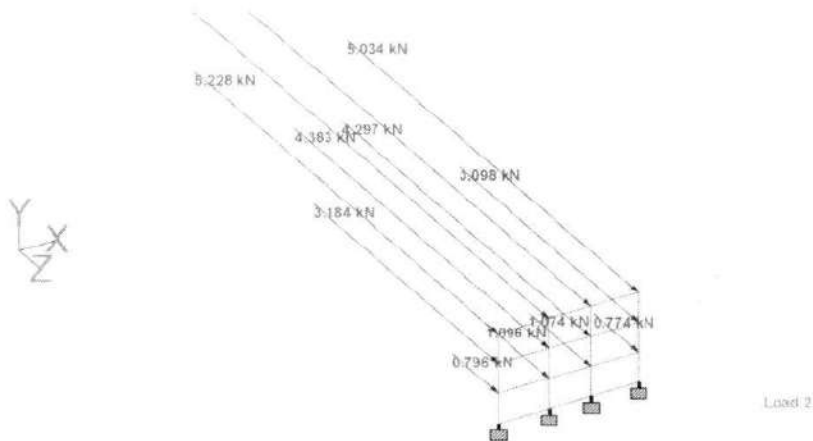
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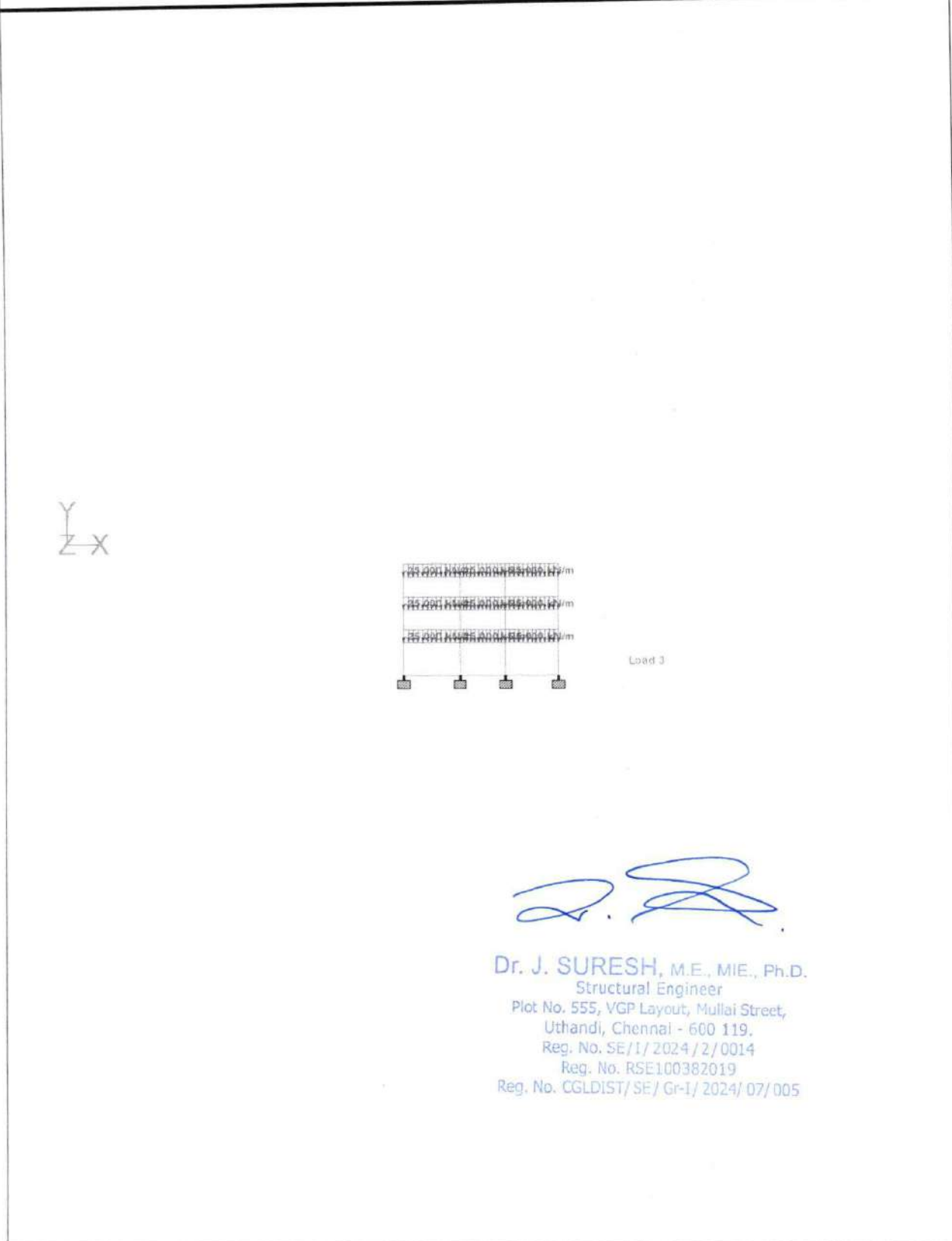
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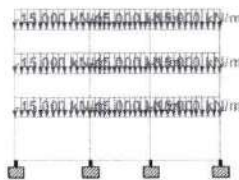
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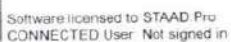




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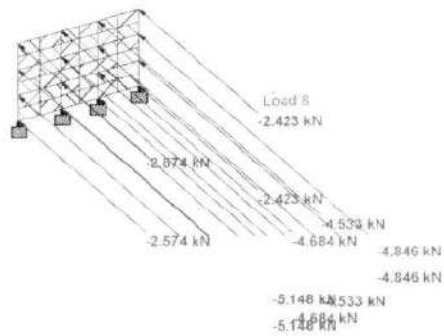
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