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DIGITALLY VERIFIED RECORD

C.KANNAN, M.E. (Structure)
STRUCTURAL ENGINEER

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
Email: kannankds2007@gmail.com

06-07-2026

STRUCTURAL STABILITY CERTIFICATE

It is certified that the Proposed Residential Building at Plot No.1021, Door No.96, 6th Avenue, Anna Nagar West, Chennai 600 040 Comprised in Old S.No.127/2pt, T.S.No.37, Block No.47, Ward No.1 of Villivakkam Village Aminjikarai Taluk, Within the Limits of Greater Chennai Corporation. having stilt plus five upper floors is designed to resist earthquakes. Check has been made and found safe and I hereby certify that,

1. The minimum column width is 300 in stilt floor
2. The minimum grade of concrete is M25.
3. The design analysis using the code of practice for loading Standards as per IS-875 Part I to III and seismic force as per one code IS 1893, is carried out.

The Structure is safe and sound when used for the purpose for which it is designed.

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.

PROPOSED RESIDENTIAL BUILDING AT PLOT NO.1021, DOOR NO.96, 6TH AVENUE, ANNA NAGAR WEST, CHENNAI 600 040 COMPRISED IN OLD S.NO.127/2PT, T.S.NO.37, BLOCK NO.47, WARD NO.1 OF VILLIVAKKAM VILLAGE AMINJIKARAI TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The proposed Residential building consists of stilt plus five upper floors.

The design of this building is carried out based on frame analysis using STAAD CONNECT.

1.2 CODES AND STANDARDS

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

1. I.S. 456 - 2000
2. I.S. 875 - Part I to III
3. I.S.1893 - 2016

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Self weight of slab	=	5.0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		9.0kN/m²

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3.0 SOIL DETAILS

Based on soil test report pile foundation is adopted.

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.

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

4.3 **MINIMUM COVER**

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

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Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

```
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*          STAAD.PRO 2025                        *
*          Version  25.00.00.539                 *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    JUL  6, 2026                 *
*          Time=    15:15:38                     *
*                                                *
*  Licensed to: C.Kannan                         *
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    4. JOB NAME PROPOSED RESIDENTIAL BUILDING AT PLOT NO.1021, DOOR NO.96, 6TH -
    5. AVENUE, ANNA NAGAR WEST, CHENNAI 600 040
    6. ENGINEER NAME KANNAN
    7. CHECKER NAME KANNAN
    8. APPROVED NAME KANNAN
    9. CHECKER DATE 7/6/2026
   10. APPROVED DATE 7/6/2026
   11. END JOB INFORMATION
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   14. JOINT COORDINATES
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   16. 6 127.501 118.11 0; 7 -185.999 118.11 0; 8 -277.253 118.11 0
   17. 9 0 236.22 0; 10 127.501 236.22 0; 11 -185.999 236.22 0
   18. 12 -277.253 236.22 0; 13 0 354.331 0; 14 127.501 354.331 0
   19. 15 -185.999 354.331 0; 16 -277.253 354.331 0; 17 0 472.441 0
   20. 18 127.501 472.441 0; 19 -185.999 472.441 0; 20 -277.253 472.441 0
   21. 21 0 590.551 0; 22 127.501 590.551 0; 23 -185.999 590.551 0
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   24. 30 127.501 -118.11 0; 31 -185.999 -118.11 0; 32 -277.253 -118.11 0
   25. MEMBER INCIDENCES
   26. 1 1 2; 2 3 1; 3 4 3; 4 1 5; 5 2 6; 6 3 7; 7 4 8; 8 5 6; 9 7 5; 10 8 7
   27. 11 5 9; 12 6 10; 13 7 11; 14 8 12; 15 9 10; 16 11 9; 17 12 11; 18 9 13
   28. 19 10 14; 20 11 15; 21 12 16; 22 13 14; 23 15 13; 24 16 15; 25 13 17
   29. 26 14 18; 27 15 19; 28 16 20; 29 17 18; 30 19 17; 31 20 19; 32 17 21
   30. 33 18 22; 34 19 23; 35 20 24; 36 21 22; 37 23 21; 38 24 23; 39 21 25
   31. 40 22 26; 41 23 27; 42 24 28; 43 25 26; 44 27 25; 45 28 27; 46 29 1
   32. 47 30 2; 48 31 3; 49 32 4
   33. UNIT METER KN
   34. DEFINE MATERIAL START
   35. ISOTROPIC CONCRETE
   36. E 2.17185E+07
   37. POISSON 0.17
   38. DENSITY 23.5616
```

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DXF IMPORT OF NEW BLOCK -- PAGE NO. 2

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 39. ALPHA 1E-05
 40. DAMP 0.05
 41. G 9.28139E+06
 42. TYPE CONCRETE
 43. STRENGTH FCU 27579
 44. END DEFINE MATERIAL
 45. MEMBER PROPERTY
 46. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 44 -
 47. 45 PRIS YD 0.45 ZD 0.23
 48. 4 TO 7 11 TO 14 18 TO 21 25 TO 28 32 TO 35 39 TO 42 46 TO 48 -
 49. 49 PRIS YD 0.45 ZD 0.23
 50. CONSTANTS
 51. MATERIAL CONCRETE ALL
 52. SUPPORTS
 53. 29 TO 32 FIXED
 54. DEFINE IS1893 2016 LOAD
 55. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 3
 56. SELFWEIGHT 1
 57. MEMBER WEIGHT
 58. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 UNI 12 0 0
 59. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 UNI 20 0 0
 60. 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.

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 68. 1893 LOAD X 1
 69. LOAD 2 LOADTYPE NONE  TITLE EQ -X
 70. 1893 LOAD X -1.
 71. LOAD 3 LOADTYPE NONE  TITLE EQ +Z
 72. 1893 LOAD Z 1
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 74. 1893 LOAD Z -1.
 75. LOAD 5 LOADTYPE NONE  TITLE WIND +X
 76. WIND LOAD X 1 TYPE 1
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DXF IMPORT OF NEW BLOCK -- PAGE NO. 3

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  82. WIND LOAD -Z 1 TYPE 1
  83. LOAD 9 LOADTYPE NONE  TITLE LL
  84. MEMBER LOAD
  85. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 UNI GY -12
  86. LOAD 10 LOADTYPE NONE  TITLE DL
  87. SELFWEIGHT Y -1 LIST ALL
  88. MEMBER LOAD
  89. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 UNI GY -20
  90. LOAD COMB 11 1.5(DL+IL)
  91. 9 1.5 10 1.5
  92. LOAD COMB 12 1.2(DL+IL+ELX)
  93. 9 1.5 10 1.2 1 1.2
  94. LOAD COMB 13 1.2(DL+IL-ELX)
  95. 9 1.2 10 1.2 2 1.2
  96. LOAD COMB 14 1.2(DL+IL+ELZ)
  97. 9 1.2 10 1.2 3 1.2
  98. LOAD COMB 15 1.2(DL+IL-ELZ)
  99. 9 1.2 10 1.2 4 1.2
 100. LOAD COMB 16 1.2(DL+IL+WLX)
 101. 9 1.2 10 1.2 5 1.2
 102. LOAD COMB 17 1.2(DL+IL-WLX)
 103. 10 1.2 6 1.2
 104. LOAD COMB 18 1.2(DL+IL+WLZ)
 105. 9 1.2 10 1.2 7 1.2
 106. LOAD COMB 19 1.2(DL+IL-WLZ)
 107. 9 1.2 10 1.2 8 1.2
 108. LOAD COMB 20 1.5(DL+ELX)
 109. 9 1.5 10 1.5 1 1.5
 110. LOAD COMB 21 1.5(DL-ELX)
 111. 9 1.5 10 1.5 2 1.5
 112. LOAD COMB 22 1.5(DL+ELZ)
 113. 9 1.5 10 1.5 3 1.5
 114. LOAD COMB 23 1.5(DL-ELZ)
 115. 10 1.5 4 1.5
 116. LOAD COMB 24 1.5(DL+WLX)
 117. 10 1.5 5 1.5
 118. LOAD COMB 25 1.5(DL-WLX)
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119. 10 1.5 6 1.5
120. LOAD COMB 26 1.5(DL+WLZ)
121. 10 1.5 7 1.5
122. LOAD COMB 27 1.5(DL-WLZ)
123. 10 1.5 8 1.5
124. LOAD COMB 28 0.9 DL+ELX
125. 10 0.9 1 1.5
126. LOAD COMB 29 0.9 DL-ELX
127. 10 0.9 2 1.5
128. LOAD COMB 30 0.9 DL+ELZ
129. 10 0.9 3 1.5
130. LOAD COMB 31 0.9 DL-ELZ
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132. LOAD COMB 32 0.9 DL+WLX
133. 10 0.9 5 1.5
134. LOAD COMB 33 0.9 DL-WLX
135. 10 0.9 6 1.5
136. LOAD COMB 34 0.9 DL+WLZ
137. 10 0.9 7 1.5
138. LOAD COMB 35 0.9 DL-WLZ
139. 10 0.9 8 1.5
140. PERFORM ANALYSIS PRINT ALL
```

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

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.

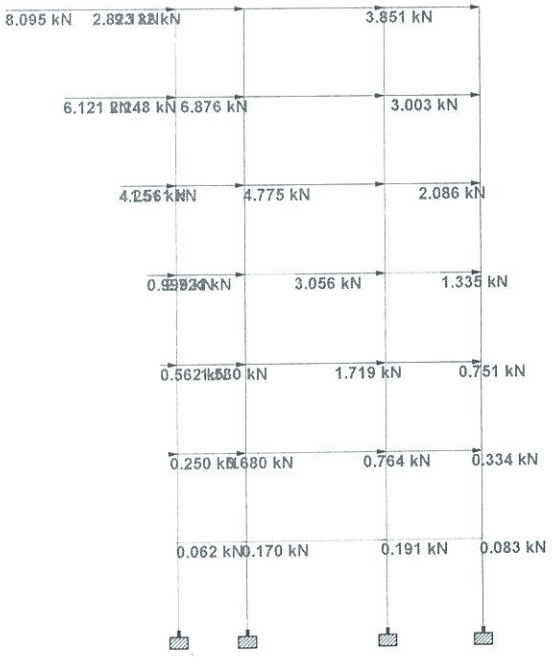
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TOTAL LOAD COMBINATION CASES = 25 SO FAR.

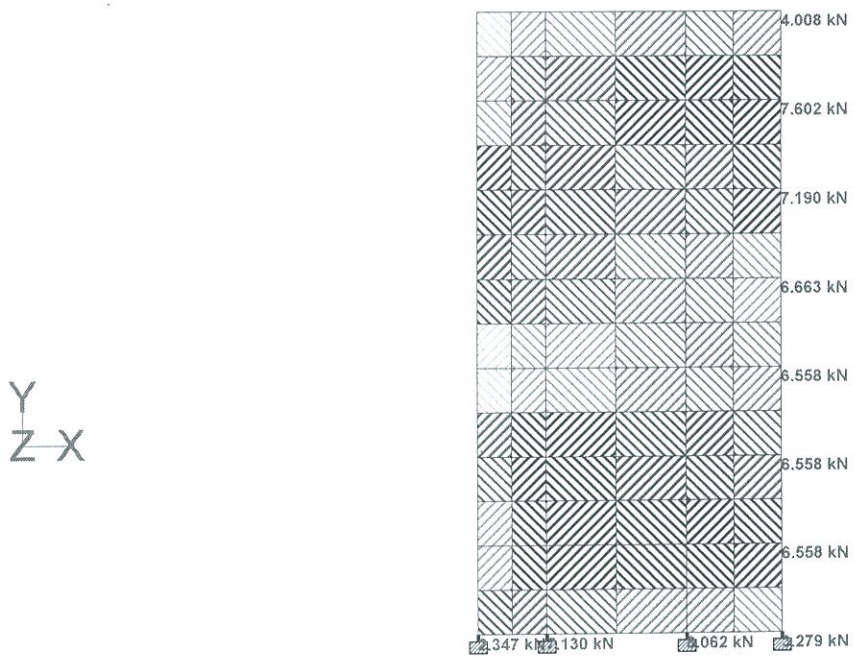


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CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
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Bentley Software licensed to C.Kannan CONNECTED User: Kannan Chinnasamy	Job No	Sheet No 1	Rev
	Part		
Job Title Proposed Residential Building at Plot No.1021, Door No.96, 6th Avenue, Anna Nagar West, Chennai 600 040	Ref		
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Client	File FIRM - P BLOCK.std	Date/Time 06-Jul-2026 15:15	

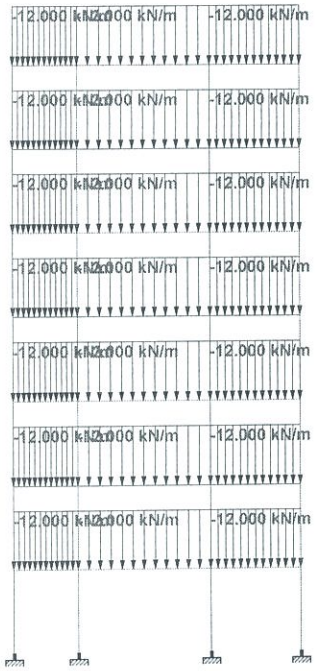


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4.008 kN
7.602 kN
7.190 kN
6.663 kN
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6.558 kN
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.130 kN
.062 kN
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Y
Z
X

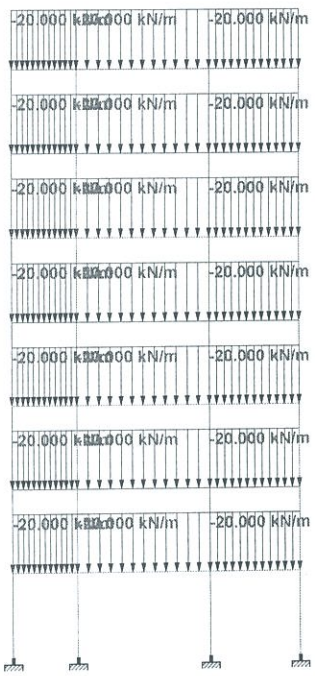
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Z
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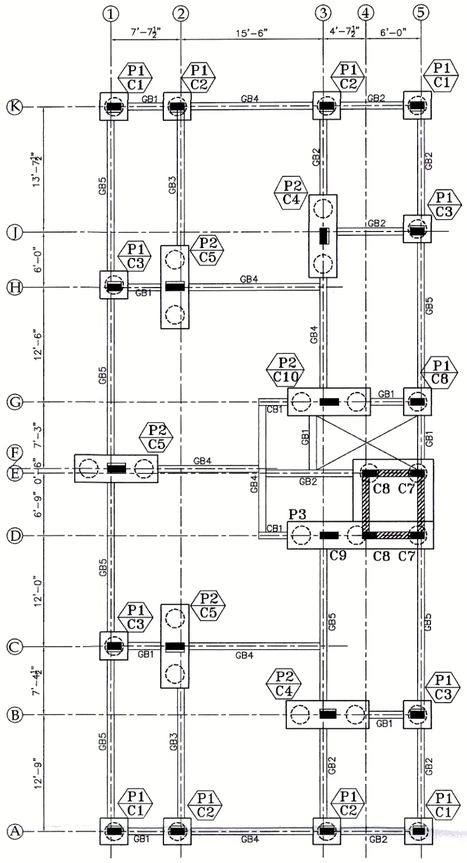
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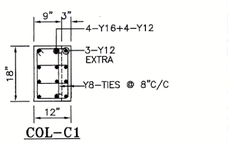




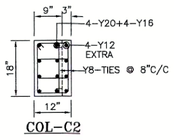
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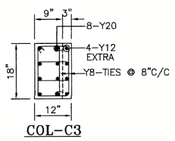




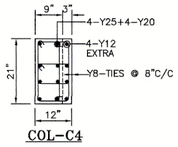
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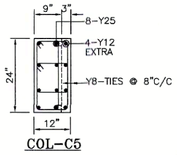
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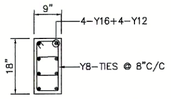
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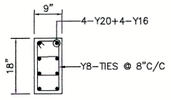
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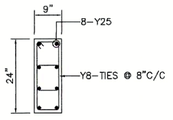
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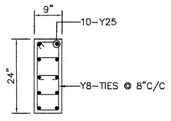
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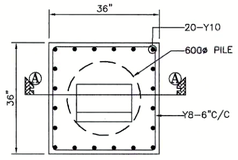
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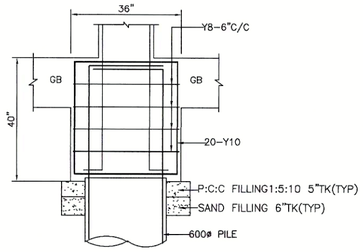
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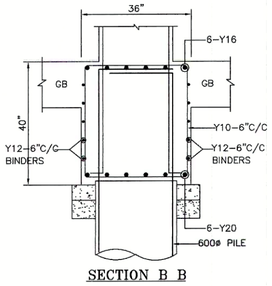
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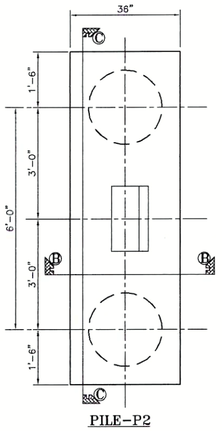
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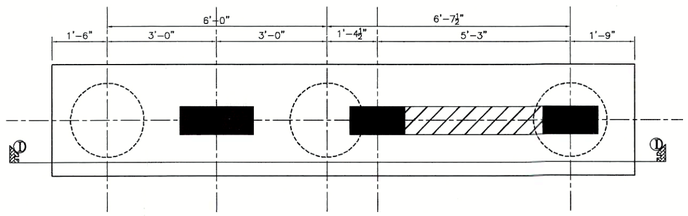
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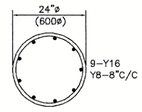
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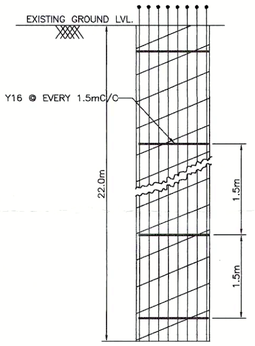
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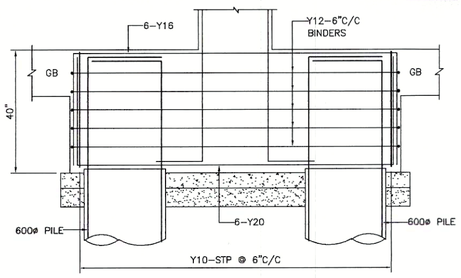
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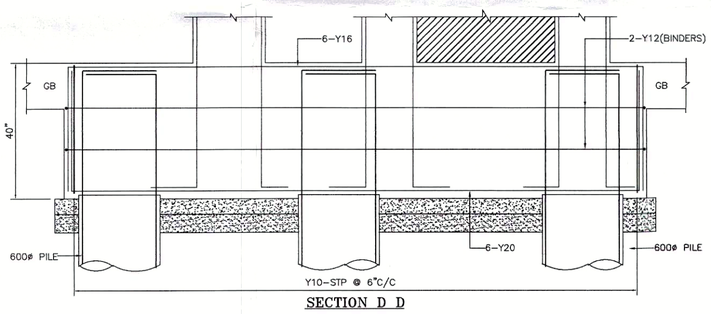
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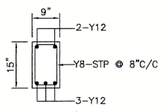
TYP. SEC. OF PILE
(BORED CAST–IN–SITU PILE)



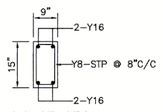
SECTION C C



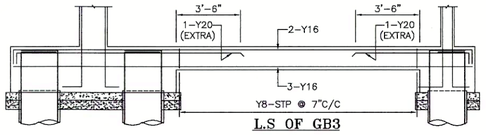
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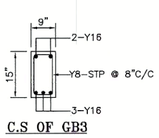
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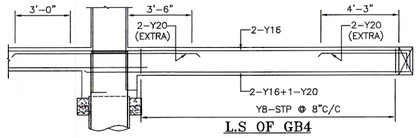
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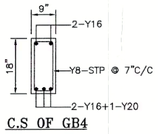
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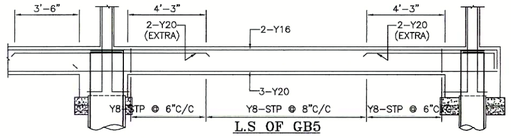
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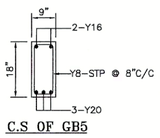
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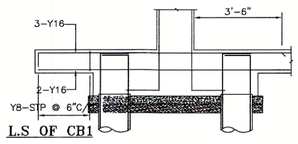
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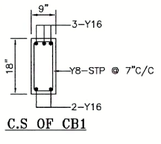
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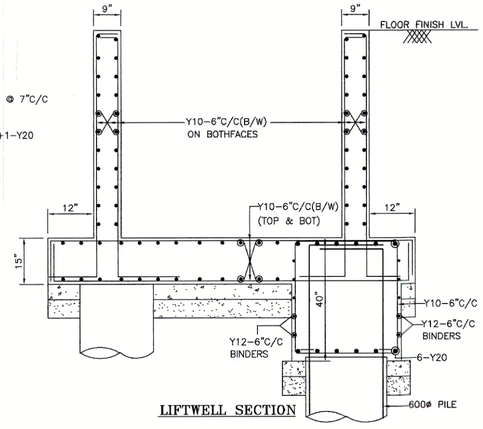
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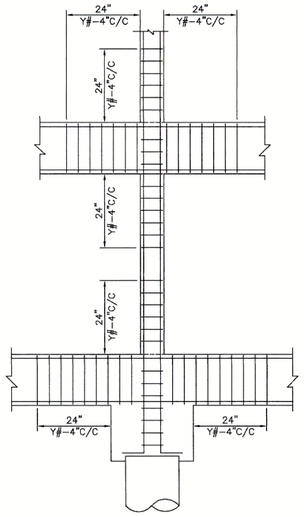
L.S OF CB1



C.S OF CB1



LIFTWELL SECTION



TYP. SEC. FOR
STP. DETAILS

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
   Grade of pile elements shall be M30 with minimum cement content 400 kg/m3
3. Y Denotes TOR40 Steel confirming to I.S. 1786 – 1985.
   Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   20 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 Stilt plus five 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 BUILDING AT PLOT NO.1021, DOOR NO.96, 6TH AVENUE,ANNA NAGAR WESRT, CHENNAI 600040 COMPRISED IN OLD S.NO.127/2 PT, T.S.NO.37, BLOCK NO.47, WARD NO.1 OF VILLIVAKKAM VILLAGE AMINJIKARAI TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

FOUNDATION DETAILS

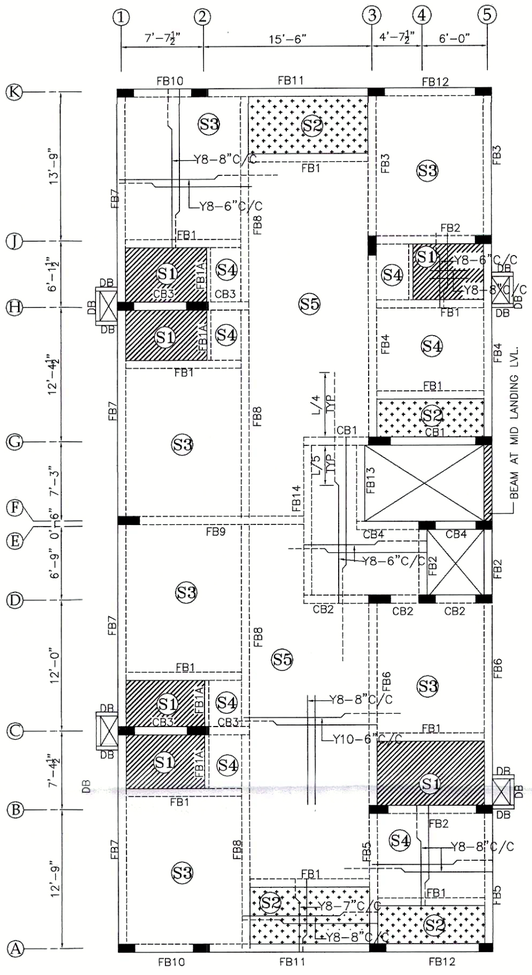
DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	NASURTHEEN		DATE	06–07–2026

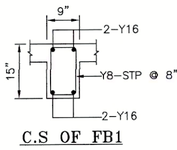
STRUCTURAL CONSULTANTS:

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.

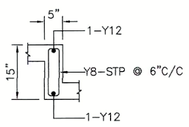
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

FILE NAME : D/NASURTHEEN/JAN26/PUSHKAR–P BLOCK

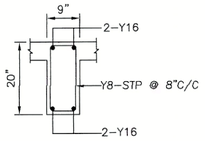




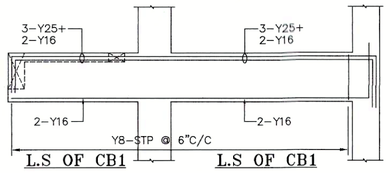
C.S OF FB1



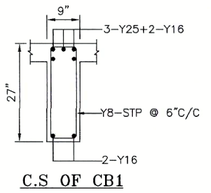
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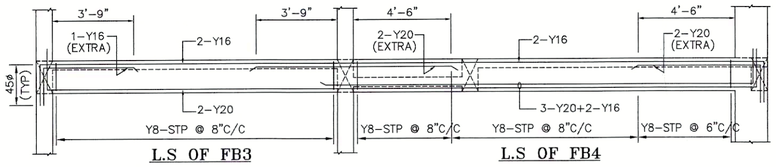
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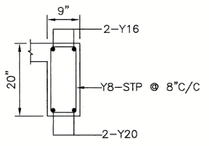
L.S OF CB1 L.S OF CB1



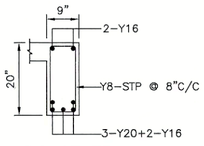
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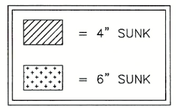
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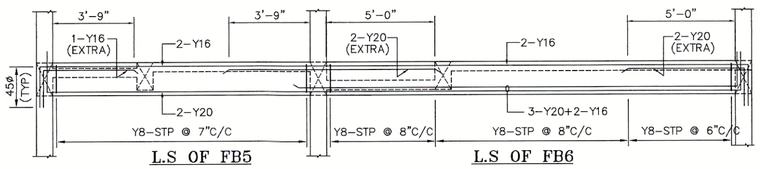


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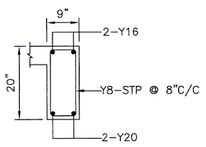


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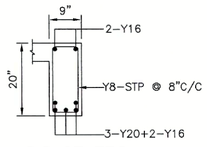




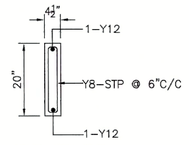
L.S OF FB5 L.S OF FB6



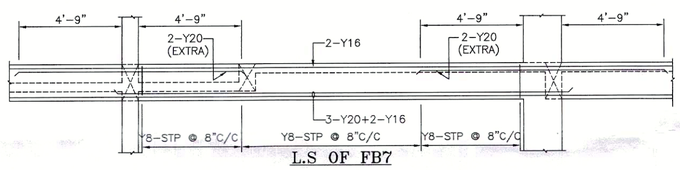
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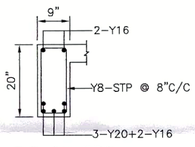
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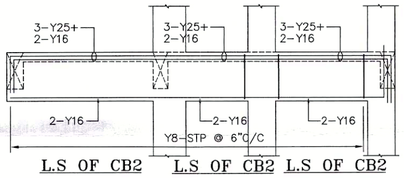
C.S OF DB



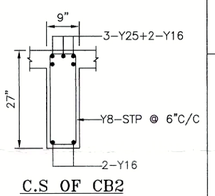
L.S OF FB7



C.S OF FB7

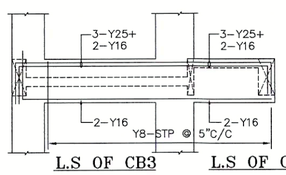


L.S OF CB2 L.S OF CB2 L.S OF CB2

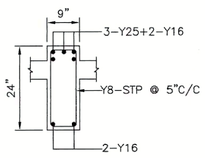


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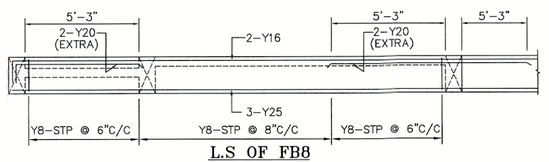
ALL SLABS ARE 5"THK UNLESS SPECIFIED



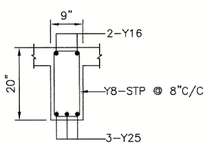
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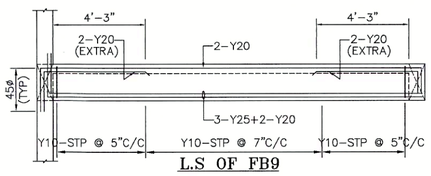
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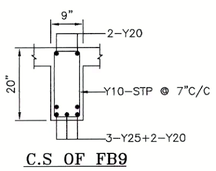
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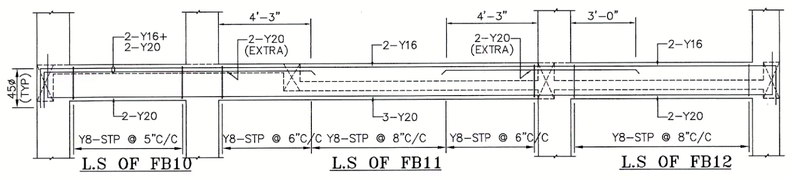
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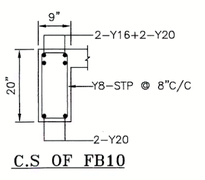
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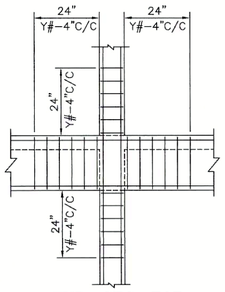
C.S OF FB9



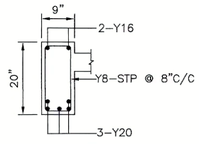
L.S OF FB10 L.S OF FB11 L.S OF FB12



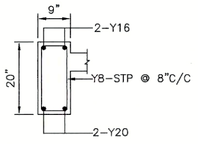
C.S OF FB10



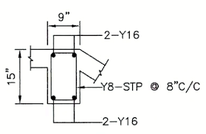
TYP. SEC. FOR STP. DETAILS



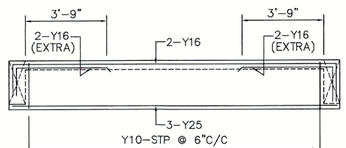
C.S OF FB11



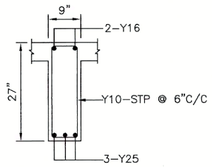
C.S OF FB12



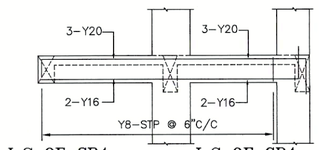
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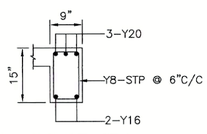
L.S OF FB14



C.S OF FB14



L.S OF CB4 L.S OF CB4



C.S OF CB4

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 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   20 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 Stilt plus five 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 BUILDING AT PLOT NO.1021, DOOR NO.96, 6TH AVENUE,ANNA NAGAR WESRT, CHENNAI 600040 COMPRISED IN OLD S.NO.127/2 PT, T.S.NO.37, BLOCK NO.47, WARD NO.1 OF VILLIVAKKAM VILLAGE AMINJIKARAI TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

TYPICAL FLOOR ROOF DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	NASURTHEEN		DATE	06-07-2026

STRUCTURAL CONSULTANTS:

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)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 49815.
E-MAIL:kannankds2007@gmail.com

FILE NAME : D/NASURTHEEN/JAN26/PUSHKAR-AJ BLOCK

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.