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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
Mobilc: 9841249815
Email: kannankds2007@gmail.com

12-12-2024

STRUCTURAL STABILITY CERTIFICATE

It is certified that the Proposed Residential Building At Gandhi Nagar, 3rd Cross Street, Perumbakkam, Chennai-100. Comprised In Olds.No: 310/2a3, 310/2b, 310/3, 311/1 & 311/1b, As Per Pattano:5076, 3753, 20114 & 20082, New S.No:310/2a3a, 310/2b1, 310/3b, 311/1a, 311/1b1 &311/1b2 Of Perumbakkam village, Tambaram Taluk, Chengalpattu District Within the Limit Of St.Thomas Mount panchayat Union. Having Stilt plus Eleven upper floors is designed to resist earthquake. Check has been made safe and sound, I hereby certify that,

1. The minimum column width is 300 in stilt floor areas
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 GANDHI NAGAR,3RD CROSS STREET, PERUMBAKKAM, CHENNAI-100. COMPRISED IN OLDS.NO: 310/2A3, 310/2B, 310/3, 311/1 & 311/1B, AS PER PATTANO:5076, 3753, 20114 & 20082, NEW S.NO:310/2A3A, 310/2B1, 310/3B, 311/1A, 311/1B1 &311/1B2 OF PERUMBAKKAM VILLAGE, TAMBARAM TALUK, CHENGALPATTU DISTRICT WITHIN THE LIMIT OF ST.THOMAS MOUNT PANCHAYAT UNION

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The proposed residential building consists of Stilt plus Eleven 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	=	3.25kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		7.25kN/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

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

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

```
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*          Bentley Systems, Inc.                 *
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     5. PERUMBAKKAM, CHENNAI-100. COMPRISED IN OLDS.NO: 310/2A3, 310/2B, 310/3, -
     6. 311/1 & 311/1B, AS PER PATTANO:5076, 3753, 20114 & 20082, NEW S.NO:310/2A3A, -
     7. 310/2B1, 310/3B, 311/1A, 311/1B1 &311/1B2 OF PERUMBAKKAM VILLAGE, TAMBARAM -
     8. TALUK, CHENGALPATTU DISTRICT WITHIN THE LIMIT OF ST.THOMAS MOUNT PANCHAYAT -
     9. UNION
    10. ENGINEER NAME KANNAN
    11. CHECKER NAME KANNAN
    12. APPROVED NAME KANNAN
    13. CHECKER DATE 12/17/2024
    14. APPROVED DATE 12/17/2024
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```

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

```
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45. 71 0.000367025 -3000 8830.53
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48. 13 12 13; 14 9 14; 16 11 16; 17 12 17; 19 14 15; 20 14 16; 21 16 17; 22 17 18
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57. 104 59 64; 106 61 66; 107 62 67; 109 64 65; 110 64 66; 111 66 67; 112 67 68
58. 113 69 1; 114 70 4; 115 71 6
59. DEFINE MATERIAL START
60. ISOTROPIC CONCRETE
61. E 21.7185
62. POISSON 0.17
63. DENSITY 2.35616E-08
64. ALPHA 1E-05
65. DAMP 0.05
66. G 9.28139
67. TYPE CONCRETE
68. STRENGTH FCU 0.027579
69. END DEFINE MATERIAL
70. MEMBER PROPERTY
71. 5 7 8 14 16 17 23 25 26 32 34 35 41 43 44 50 52 53 59 61 62 68 70 71 77 79 -
72. 80 86 88 89 95 97 98 104 106 107 113 TO 115 PRIS YD 1000 ZD 230
73. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 64 TO 67 -
74. 73 TO 76 82 TO 85 91 TO 94 100 TO 103 109 TO 112 PRIS YD 600 ZD 230
75. CONSTANTS
76. MATERIAL CONCRETE ALL
77. SUPPORTS
78. 69 TO 71 FIXED
79. UNIT METER KN
80. DEFINE IS1893 2016 LOAD
81. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 3
82. SELFWEIGHT 1
83. MEMBER WEIGHT
84. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 64 TO 67 -
85. 73 TO 76 82 TO 85 91 TO 94 100 TO 103 109 TO 112 UNI 15 0 0
86. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 64 TO 67 -
87. 73 TO 76 82 TO 85 91 TO 94 100 TO 103 109 TO 112 UNI 45 0 0
88. 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.

89. TYPE 1 WIND 1
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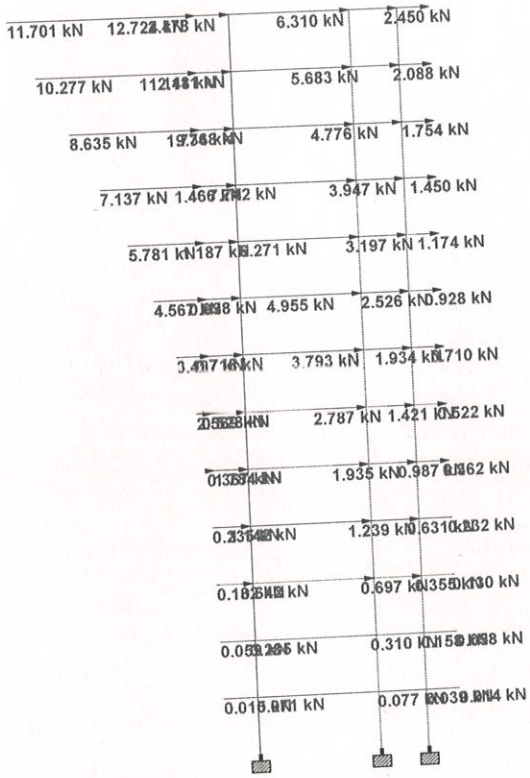
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 96. 1893 LOAD X 1
 97. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ -X
 98. 1893 LOAD X -1.
 99. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQ +Z
100. 1893 LOAD Z 1
101. LOAD 4 LOADTYPE SEISMIC-H  TITLE EQ -Z
102. 1893 LOAD Z -1.
103. LOAD 5 LOADTYPE SEISMIC-H  TITLE WIND +X
104. WIND LOAD X 1 TYPE 1
105. LOAD 6 LOADTYPE SEISMIC-H  TITLE WIND -X
106. WIND LOAD -X 1 TYPE 1
107. LOAD 7 LOADTYPE SEISMIC-H  TITLE WIND +Z
108. WIND LOAD Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
109. LOAD 8 LOADTYPE SEISMIC-H  TITLE WIND -Z
110. WIND LOAD -Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
111. LOAD 9 LOADTYPE SEISMIC-H  TITLE LIVE LOAD
112. MEMBER LOAD
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114. 73 TO 76 82 TO 85 91 TO 94 100 TO 103 109 TO 112 UNI GY -15
115. LOAD 10 LOADTYPE SEISMIC-H  TITLE DEAD LOAD
116. SELFWEIGHT Y -1
117. MEMBER LOAD
118. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 64 TO 67 -
119. 73 TO 76 82 TO 85 91 TO 94 100 TO 103 109 TO 112 UNI GY -30
```

```
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121. 10 1.5
122. LOAD COMB 12 1.2(DL+IL+ELX)
123. 10 1.2 1 1.2
124. LOAD COMB 13 1.2(DL+IL-ELX)
125. 10 1.2 2 1.2
126. LOAD COMB 14 1.2(DL+IL+ELZ)
127. 10 1.2 3 1.2
128. LOAD COMB 15 1.2(DL+IL-ELZ)
129. 10 1.2 4 1.2
130. LOAD COMB 16 1.2(DL+IL+WLX)
131. 10 1.2 5 1.2
132. LOAD COMB 17 1.2(DL+IL-WLX)
133. 10 1.2 6 1.2
134. LOAD COMB 18 1.2(DL+IL+WLZ)
135. 10 1.2 7 1.2
136. LOAD COMB 19 1.2(DL+IL-WLZ)
137. 10 1.2 8 1.2
138. LOAD COMB 20 1.5(DL+ELX)
139. 10 1.5 1 1.5
140. LOAD COMB 21 1.5(DL-ELX)
141. 10 1.5 2 1.5
142. LOAD COMB 22 1.5(DL+ELZ)
143. 10 1.5 3 1.5
144. LOAD COMB 23 1.5(DL-ELZ)
145. 10 1.5 4 1.5
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147. 10 1.5 5 1.5
148. LOAD COMB 25 1.5(DL-WLX)
149. 10 1.5 6 1.5
150. LOAD COMB 26 1.5(DL+WLZ)
151. 10 1.5 7 1.5
152. LOAD COMB 27 1.5(DL-WLZ)
153. 10 1.5 8 1.5
154. LOAD COMB 28 0.9 DL+ELX
155. 10 0.9 1 1.5
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157. 10 0.9 2 1.5
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159. 10 0.9 3 1.5
160. LOAD COMB 31 0.9 DL-ELZ
161. 10 0.9 4 1.5
162. LOAD COMB 32 0.9 DL+WLX
163. 10 0.9 5 1.5
164. LOAD COMB 33 0.9 DL-WLX
165. 10 0.9 6 1.5
166. LOAD COMB 34 0.9 DL+WLZ
167. 10 0.9 7 1.5
168. LOAD COMB 35 0.9 DL-WLZ
169. 10 0.9 8 1.5
170. PERFORM ANALYSIS
```

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.

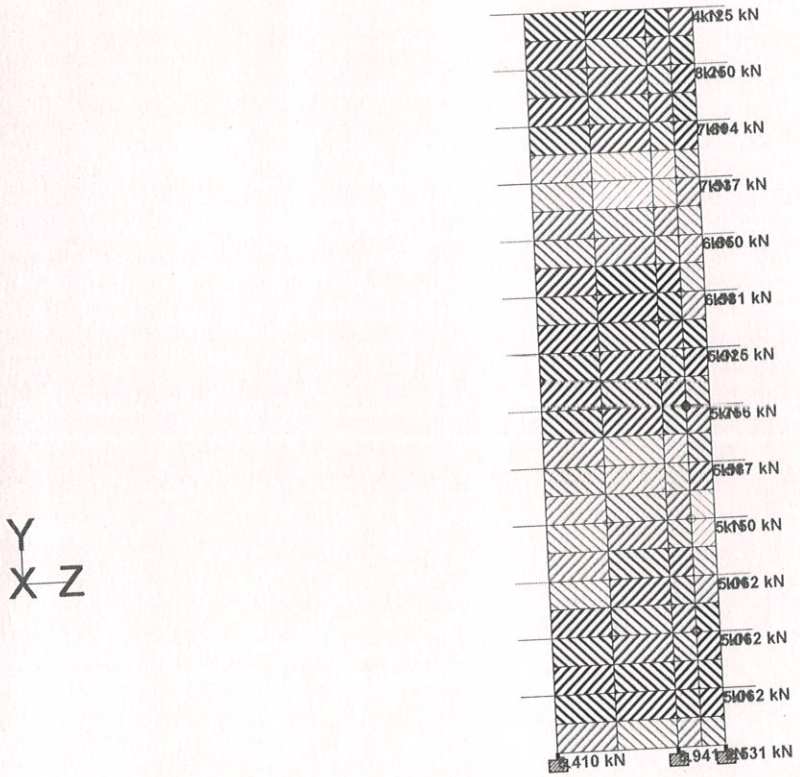
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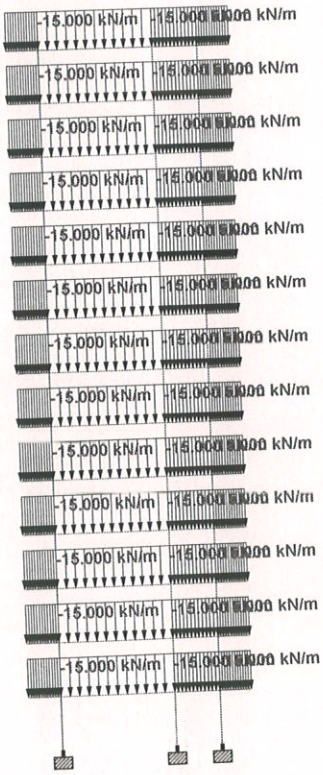
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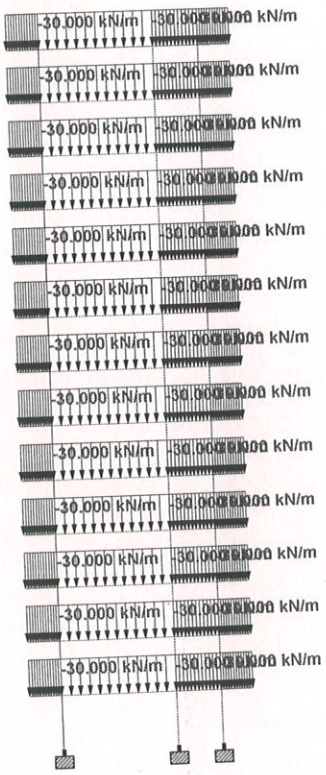
C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.


Y
X Z
4k125 kN
8k250 kN
7k394 kN
7k537 kN
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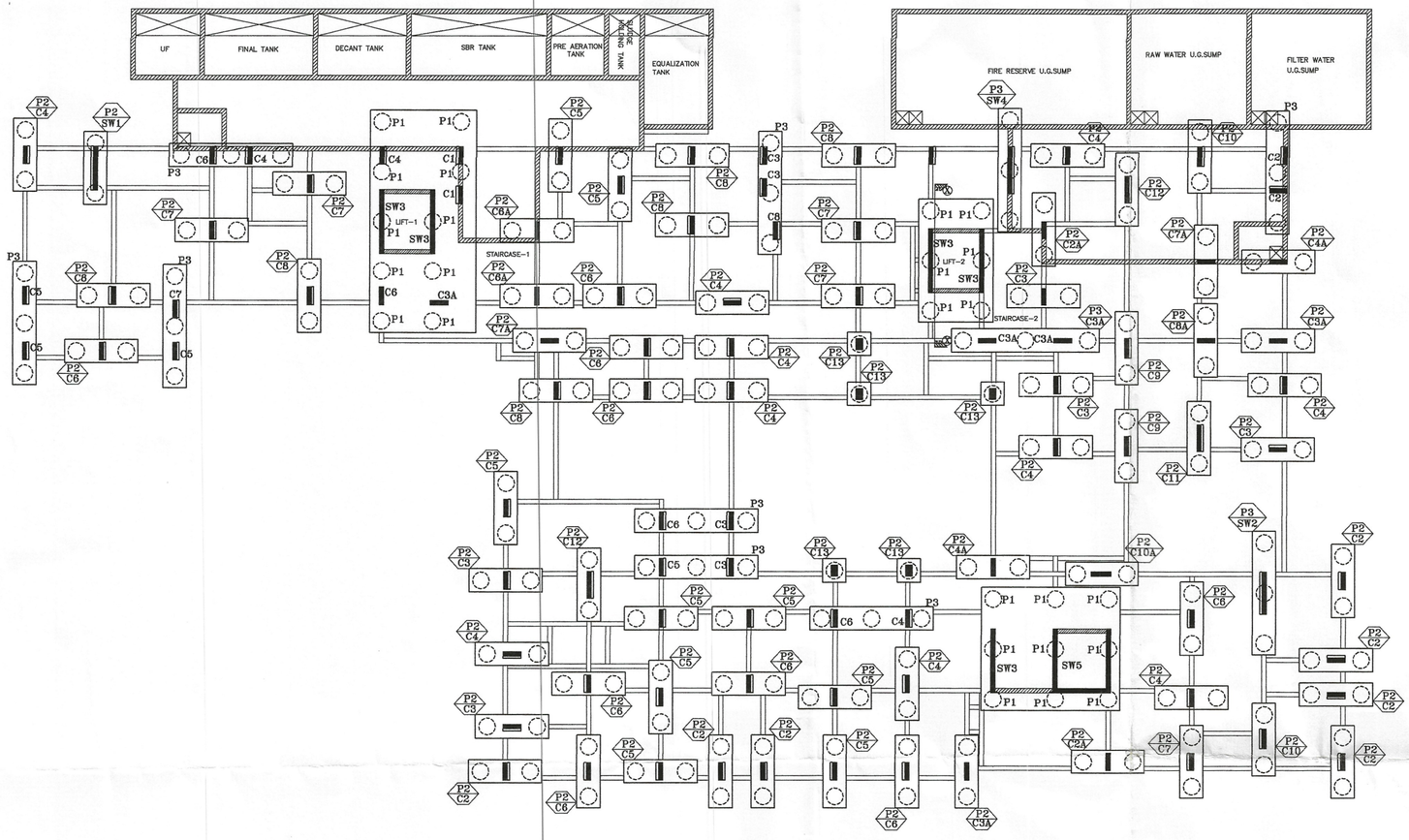

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-15.000 kN/m
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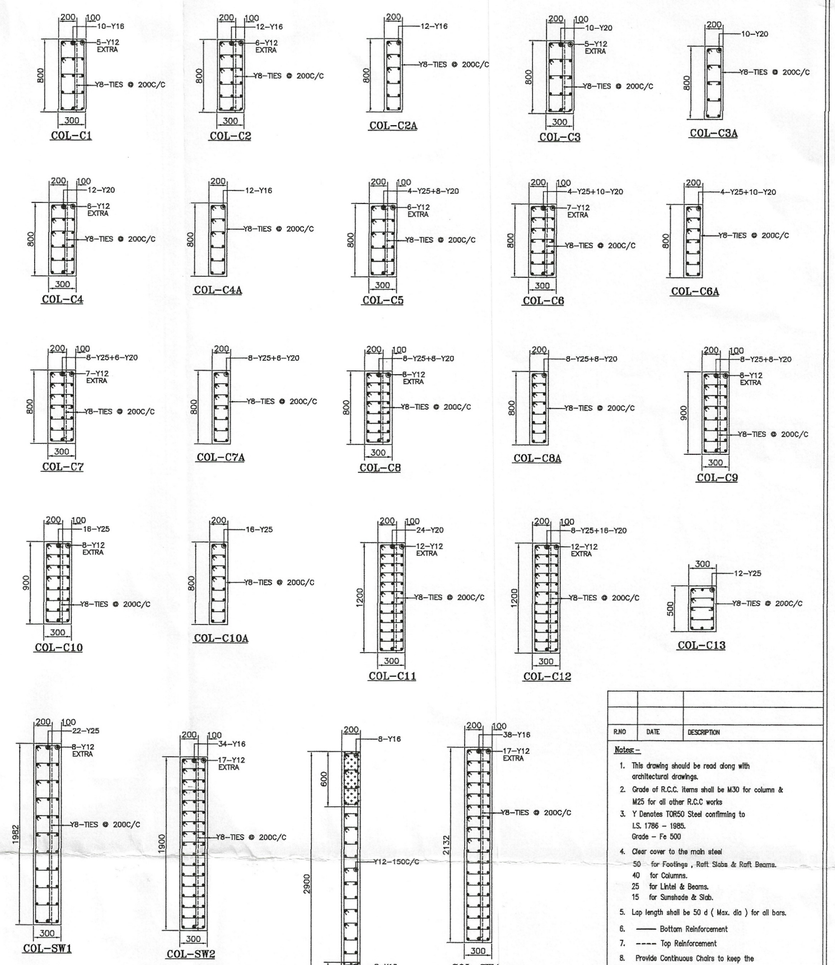
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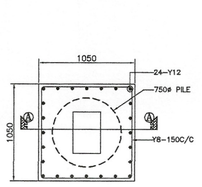


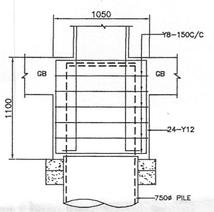
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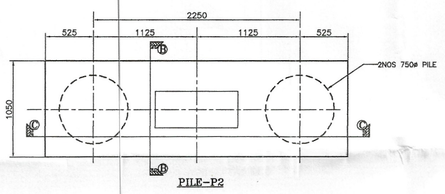
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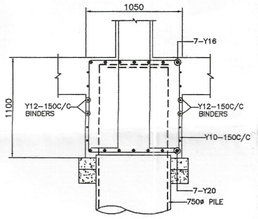


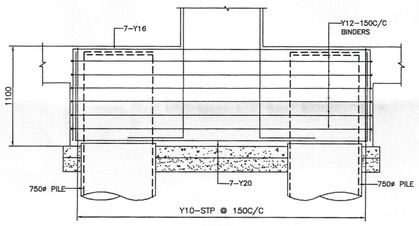


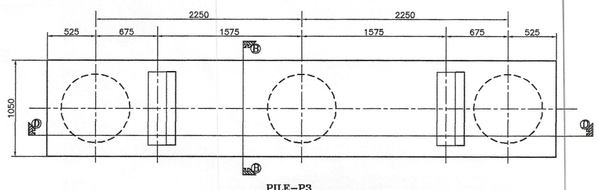


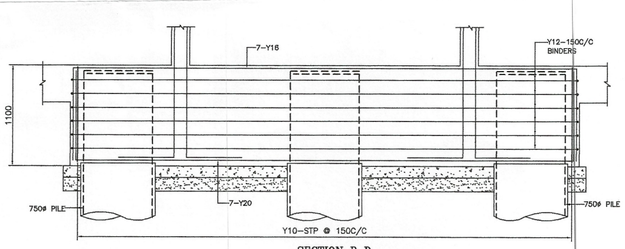


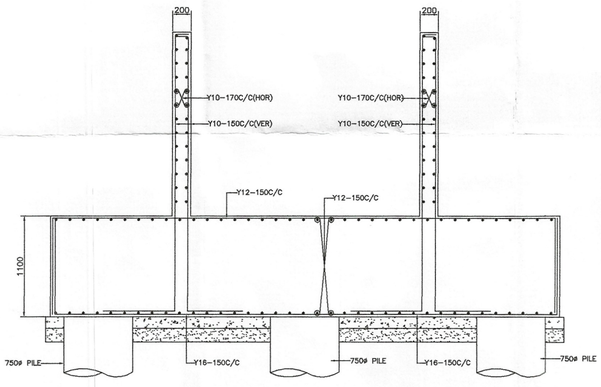


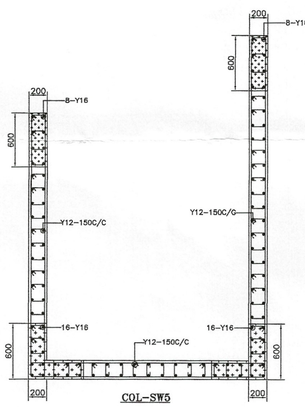


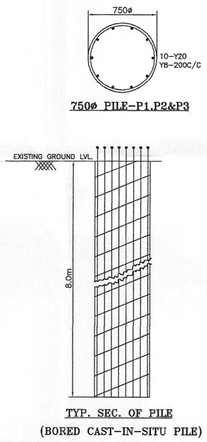


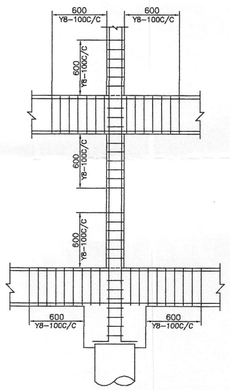












R.NO	DATE	DESCRIPTION

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 TOR50 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.
   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 Stilt plus Eleven 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

PROJECT

PROPOSED RESIDENTIAL BUILDING AT GANDHI NAGAR,3RD CROSS STREET, PERUMBAKKAM, CHENNAI–100. COMPRISED IN OLD S.NO: 310/2A3, 310/2B, 310/3, 311/1 & 311/1B, AS PER PATTA NO:5076, 3753, 20114 & 20082, NEW S.NO:310/2A3A, 310/2B1, 310/3B, 311/1A, 311/1B1 & 311/1B2 OF PERUMBAKKAM VILLAGE, TAMBARAM TALUK, CHENGALPATTU DISTRICT WITHIN THE LIMIT OF ST.THOMAS MOUNT PANCHAYAT UNION.

PILE FOUNDATION DETAIL

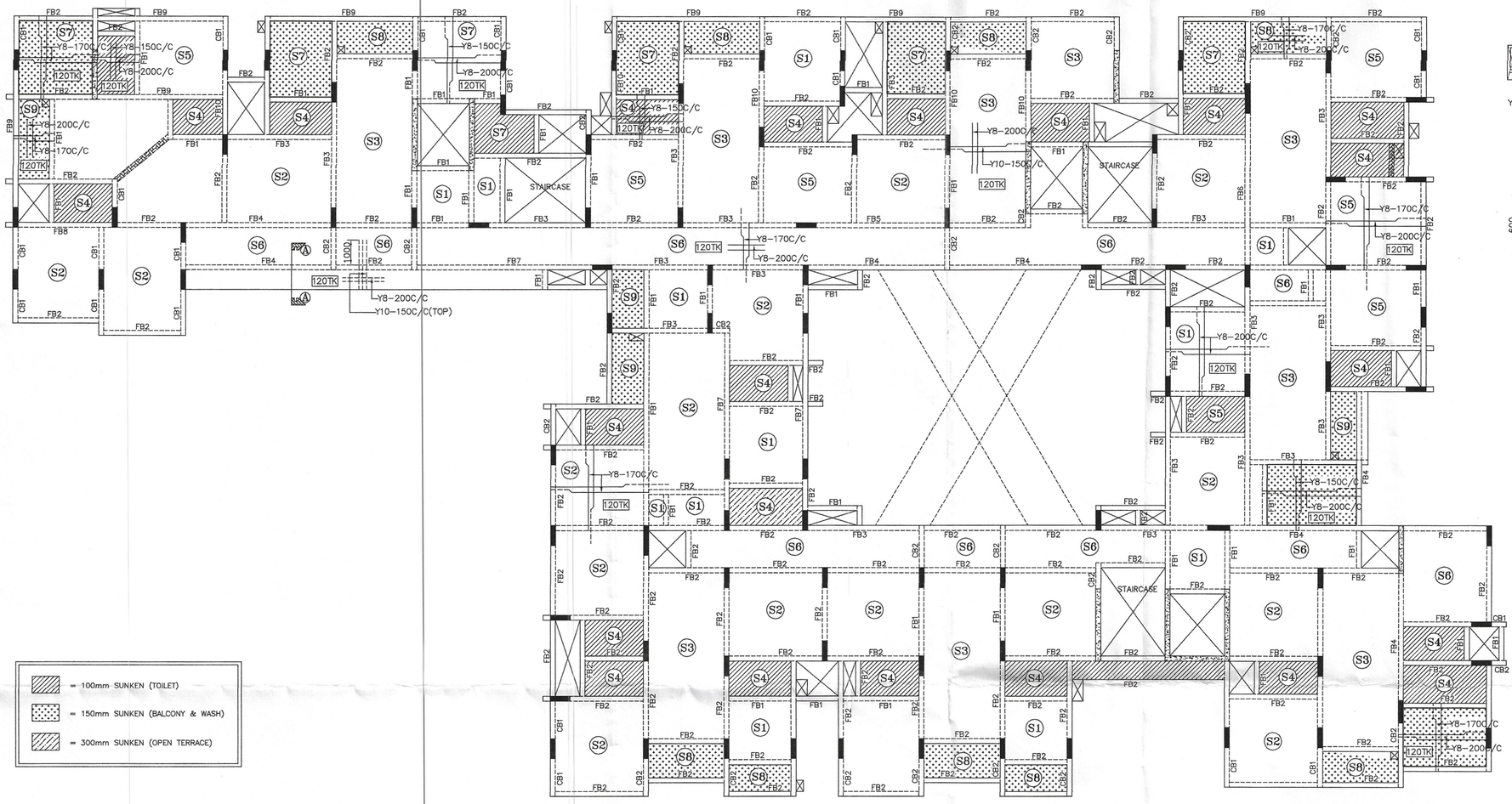
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DRAWN	CHITRA		DATE	22-04-2024

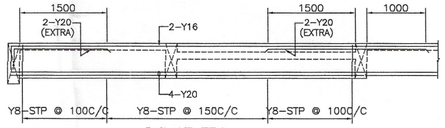
STRUCTURAL CONSULTANTS:

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.

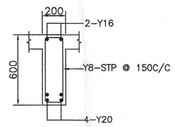
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS"
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 49815.
E-MAIL:kannankdk2007@gmail.com

FILE NAME : D/CHITRA/2023-2024/URBANDO-PERUMBAKKAM

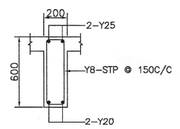




L.S OF FB9



C.S OF FB9



C.S OF FB10

R.NO	DATE	DESCRIPTION

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 TOR50 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.
   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.
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PROJECT

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TYPICAL FLOOR SLAB DETAIL

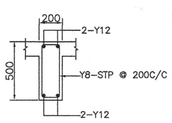
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DRAWN	CHITRA		DATE	22-04-2024

STRUCTURAL CONSULTANTS:

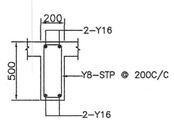
C.KANNAN, B.E.,M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

C.KANNAN, B.E., (CONSTRUCTURE)
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

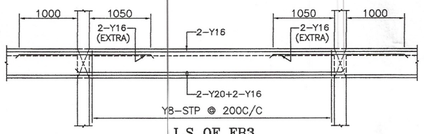
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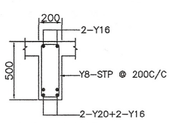
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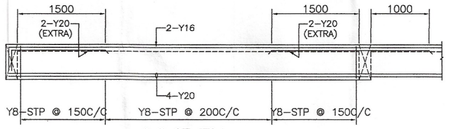
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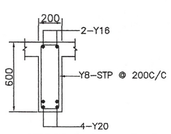
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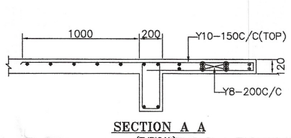
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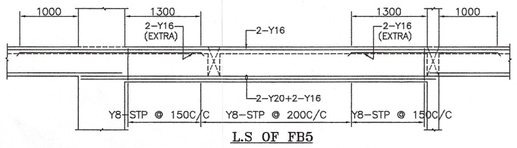
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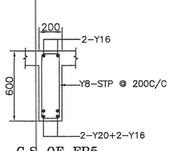
C.S OF FB4



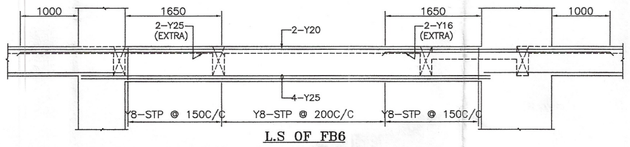
SECTION A A
(TYPICAL)



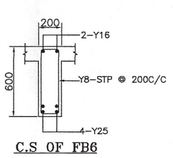
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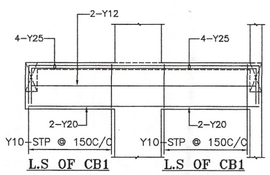
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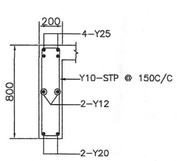
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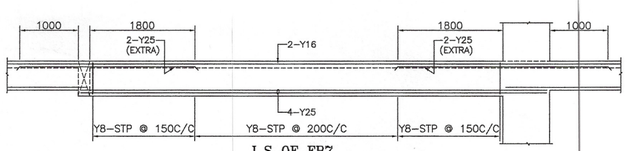
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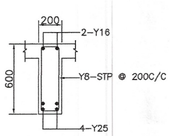
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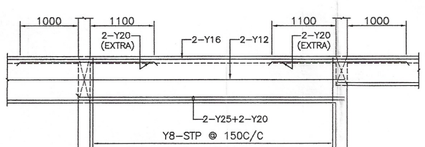
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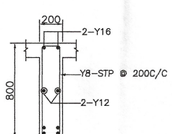
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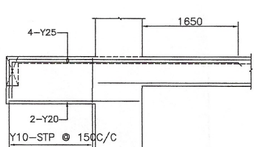
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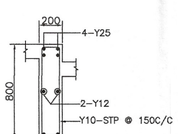
L.S OF FB8



C.S OF FB8



L.S OF CB2



C.S OF CB2

Our services go beyond

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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.

Smarter Tools, Stronger Decisions

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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