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PAGE NO. 1

```

*****
*                               *
*   STAAD.Pro CONNECT Edition   *
*   Version  22.12.00.142       *
*   Proprietary Program of      *
*   Bentley Systems, Inc.       *
*   Date=    JAN  8, 2024       *
*   Time=    18:28: 7           *
*                               *
*   Licensed to: C.Kannan        *
*****

```

```

1. STAAD SPACE
INPUT FILE: D:\LOGESH\STABILITY CERTIFICATE\DEVA CONSTRUCTION - KORATTU...STD
2. START JOB INFORMATION
3. ENGINEER DATE 08-JAN-24
4. JOB NAME PROPOSED RESIDENTIAL APARTMENTS AT TNHB BLOCK NO. SH47, SH48 & SH -
5. 49, 25TH STREET, KORATTUR, CHENNAI- 600 080
6. ENGINEER NAME KANNAN
7. CHECKER NAME KANNAN
8. APPROVED NAME KANNAN
9. CHECKER DATE 1/8/2024
10. APPROVED DATE 1/8/2024
11. END JOB INFORMATION
12. INPUT WIDTH 79
13. UNIT MMS KN
14. JOINT COORDINATES
15. 1 0 0 0; 2 0 0 1816.8; 3 0 0 6999.2; 4 0 0 11877.6; 5 0 0 13716; 6 0 3000 0
16. 7 0 3000 1816.8; 8 0 3000 6999.2; 9 0 3000 11877.6; 10 0 3000 13716
17. 11 0 6000 0; 12 0 6000 1816.8; 13 0 6000 6999.2; 14 0 6000 11877.6
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19. 19 0 9000 11877.6; 20 0 9000 13716; 21 0 12000 0; 22 0 12000 1816.8
20. 23 0 12000 6999.2; 24 0 12000 11877.6; 25 0 12000 13716; 26 0 15000 0
21. 27 0 15000 1816.8; 28 0 15000 6999.2; 29 0 15000 11877.6; 30 0 15000 13716
22. 32 0 -3000 1816.8; 33 0 -3000 6999.2; 34 0 -3000 11877.6
23. MEMBER INCIDENCES
24. 1 1 2; 2 2 3; 3 3 4; 4 4 5; 6 2 7; 7 3 8; 8 4 9; 10 6 7; 11 7 8; 12 8 9
25. 13 9 10; 15 7 12; 16 8 13; 17 9 14; 19 11 12; 20 12 13; 21 13 14; 22 14 15
26. 24 12 17; 25 13 18; 26 14 19; 28 16 17; 29 17 18; 30 18 19; 31 19 20; 33 17 22
27. 34 18 23; 35 19 24; 37 21 22; 38 22 23; 39 23 24; 40 24 25; 42 22 27; 43 23 28
28. 44 24 29; 46 26 27; 47 27 28; 48 28 29; 49 29 30; 51 32 2; 52 33 3; 53 34 4
29. DEFINE MATERIAL START
30. ISOTROPIC CONCRETE
31. E 21.7185
32. POISSON 0.17
33. DENSITY 2.35616E-08
34. ALPHA 1E-05
35. DAMP 0.05
36. G 9.28139
37. TYPE CONCRETE
38. STRENGTH FCU 0.027579

```



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.

STAAD SPACE

-- PAGE NO. 2

39. END DEFINE MATERIAL
40. MEMBER PROPERTY
41. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 PRIS YD 500 ZD 200
42. 6 TO 8 15 TO 17 24 TO 26 33 TO 35 42 TO 44 51 TO 53 PRIS YD 500 ZD 200
43. CONSTANTS
44. MATERIAL CONCRETE ALL
45. SUPPORTS
46. 32 TO 34 FIXED
47. DEFINE IS1893 2016 LOAD
48. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 3000
49. SELFWEIGHT 1
50. MEMBER WEIGHT
51. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 UNI 0.012 0 0
52. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 UNI 0.035 0 0
53. 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.

54. TYPE 1 WIND 1
55. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
56. CUSTOM:PARAMS
57. !> END GENERATED DATA BLOCK
58. INT 1.35E-06 1.48E-06 1.68E-06 HEIG 10000 15000 18000
59. EXP 1 JOINT 1 TO 30 32 TO 34
60. UNIT METER KN
61. LOAD 1 LOADTYPE SEISMIC-H TITLE EQ +X
62. 1893 LOAD X 1
63. LOAD 2 LOADTYPE SEISMIC-H TITLE EQ -X
64. 1893 LOAD X -1.
65. LOAD 3 LOADTYPE SEISMIC-H TITLE EQ +Z
66. 1893 LOAD Z 1
67. LOAD 4 LOADTYPE SEISMIC-H TITLE EQ -*Z
68. 1893 LOAD Z -1.
69. LOAD 5 LOADTYPE WIND TITLE WIND +X
70. WIND LOAD X 1 TYPE 1
71. LOAD 6 LOADTYPE WIND TITLE WIND -X
72. WIND LOAD -X 1 TYPE 1

STAAD SPACE

-- PAGE NO. 3

73. LOAD 7 LOADTYPE WIND TITLE WIND +Z
74. WIND LOAD Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
75. LOAD 8 LOADTYPE WIND TITLE WIND -Z
76. WIND LOAD -Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
77. LOAD 9 LOADTYPE LIVE TITLE LIVE LOAD
78. MEMBER LOAD
79. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 UNI GY -12
80. LOAD 10 LOADTYPE DEAD TITLE DEAD LOAD
81. SELFWEIGHT Y -1
82. MEMBER LOAD
83. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 UNI GY -35
84. LOAD COMB 11 1.5(DL+IL)
85. 9 1.5 10 1.5
86. LOAD COMB 12 1.2(DL+IL+ELX)
87. 9 1.5 10 1.2 1 1.2
88. LOAD COMB 13 1.2(DL+IL-ELX)
89. 9 1.2 10 1.2 2 1.2
90. LOAD COMB 14 1.2(DL+IL+ELZ)
91. 9 1.2 10 1.2 3 1.2
92. LOAD COMB 15 1.2(DL+IL-ELZ)
93. 9 1.2 10 1.2 4 1.2
94. LOAD COMB 16 1.2(DL+IL+WLX)
95. 9 1.2 10 1.2 5 1.2
96. LOAD COMB 17 1.2(DL+IL-WLX)
97. 10 1.2 6 1.2
98. LOAD COMB 18 1.2(DL+IL+WLZ)
99. 9 1.2 10 1.2 7 1.2
100. LOAD COMB 19 1.2(DL+IL-WLZ)
101. 9 1.2 10 1.2 8 1.2
102. LOAD COMB 20 1.5(DL+ELX)
103. 9 1.5 10 1.5 1 1.5
104. LOAD COMB 21 1.5(DL-ELX)
105. 9 1.5 10 1.5 2 1.5
106. LOAD COMB 22 1.5(DL+ELZ)
107. 9 1.5 10 1.5 3 1.5
108. LOAD COMB 23 1.5(DL-ELZ)
109. 10 1.5 4 1.5
110. LOAD COMB 24 1.5(DL+WLX)
111. 10 1.5 5 1.5
112. LOAD COMB 25 1.5(DL-WLX)
113. 10 1.5 6 1.5
114. LOAD COMB 26 1.5(DL+WLZ)
115. 10 1.5 7 1.5
116. LOAD COMB 27 1.5(DL-WLZ)
117. 10 1.5 8 1.5

STAAD SPACE

-- PAGE NO. 4

118. LOAD COMB 28 0.9 DL+ELX
119. 10 0.9 1 1.5
120. LOAD COMB 29 0.9 DL-ELX
121. 10 0.9 2 1.5
122. LOAD COMB 30 0.9 DL+ELZ
123. 10 0.9 3 1.5
124. LOAD COMB 31 0.9 DL-ELZ
125. 10 0.9 4 1.5
126. LOAD COMB 32 0.9 DL+WLX
127. 10 0.9 5 1.5
128. LOAD COMB 33 0.9 DL-WLX
129. 10 0.9 6 1.5
130. LOAD COMB 34 0.9 DL+WLZ
131. 10 0.9 7 1.5
132. LOAD COMB 35 0.9 DL-WLZ
133. 10 0.9 8 1.5
134. PERFORM ANALYSIS PRINT ALL

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

NUMBER OF JOINTS	33	NUMBER OF MEMBERS	42
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	3

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 10, TOTAL DEGREES OF FREEDOM = 180
TOTAL LOAD COMBINATION CASES = 25 SO FAR.

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Job No

Sheet No

1

Rev

Part

Job Title: Proposed Residential Apartments at TNHB Block No. SH47, SH48 & SH 49, 25th Street, Korattur, Chennai- 600 080

Ref

By Kannan

Date 08-Jan-24

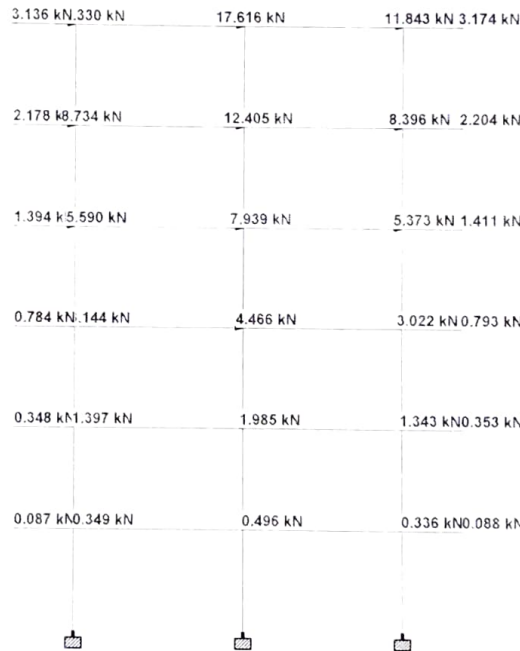
Chd Kannan

Client

File DEVA CONSTRUCTION

Date/Time 08-Jan-2024 18:28

Y
X-Z



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.

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Job Title Proposed Residential Apartments at TNHB Block No. SH47, SH48 & SH 49, 25th
Street, Korattur, Chennai- 600 080

Client

Job No

Sheet No

1

Rev

Part

Ref

By Kannan

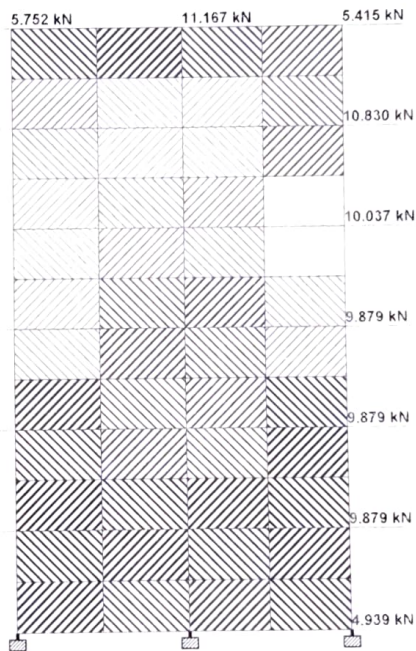
Date 08-Jan-24

Chd Kannan

File DEVA CONSTRUCTION

Date/Time 08-Jan-2024 18:28

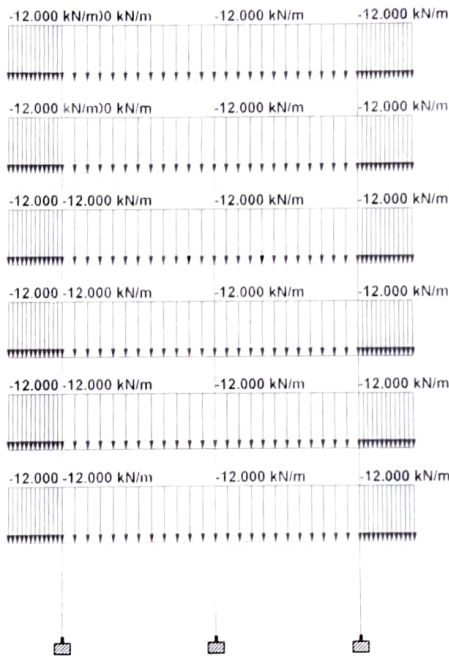
Y
X-Z



Load 5

Bentley Software licensed to C Kannan CONNECTED User: Kannan Chinnasamy	Job No	Sheet No 1	Rev
	Part		
Job Title Proposed Residential Apartments at TNHB Block No. SH47, SH48 & SH 49, 25th Street, Korattur, Chennai- 600 080	Ref		
	By Kannan	Date 08-Jan-24	Chd Kannan
Client	File DEVA CONSTRUCTIONS	Date/Time 08-Jan-2024 18:28	

Y
X-Z



Load 9

Bentley

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CONNECTED User: Kannan Chinnasamy

Job No

Sheet No

1

Rev

Part

Job Title: Proposed Residential Apartments at TNHB Block No. SH47, SH48 & SH 49, 25th Street, Korattur, Chennai- 600 080

Ref

By Kannan

Date: 08-Jan-24

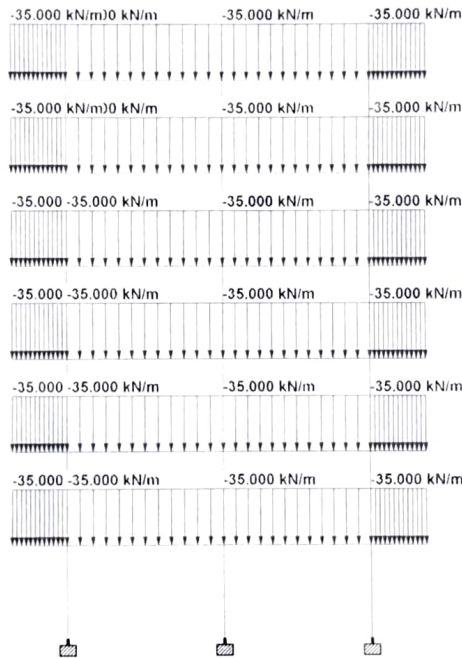
Chd: Kannan

Client

File: DEVA CONSTRUCTION

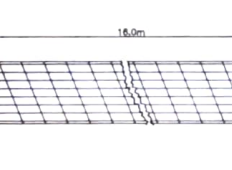
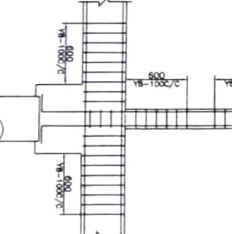
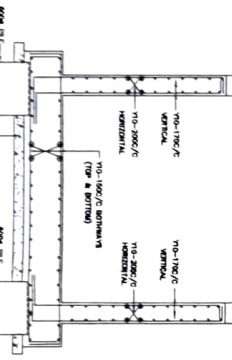
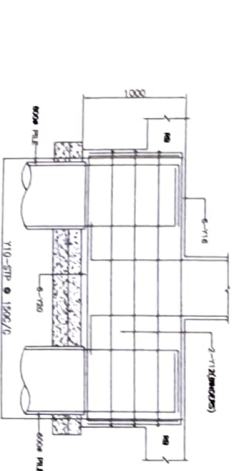
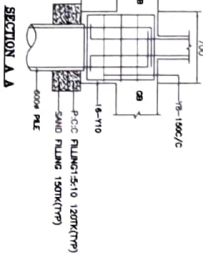
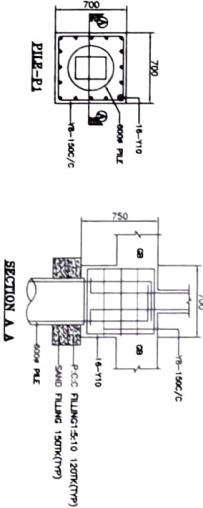
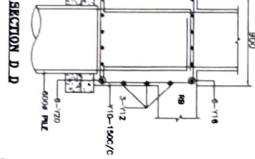
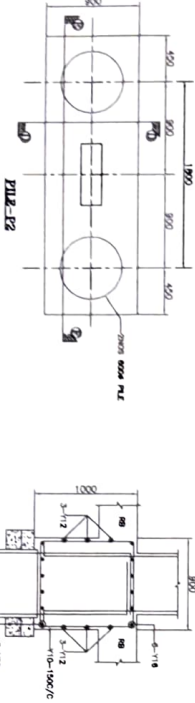
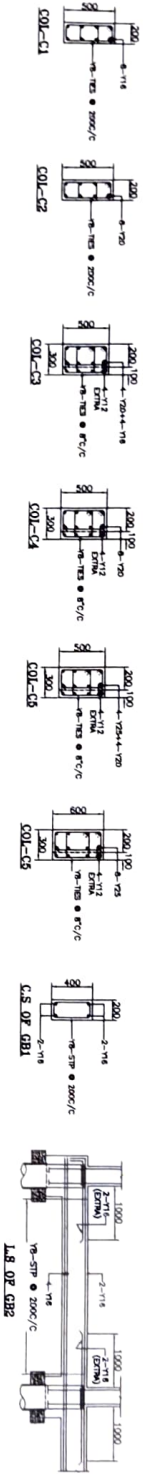
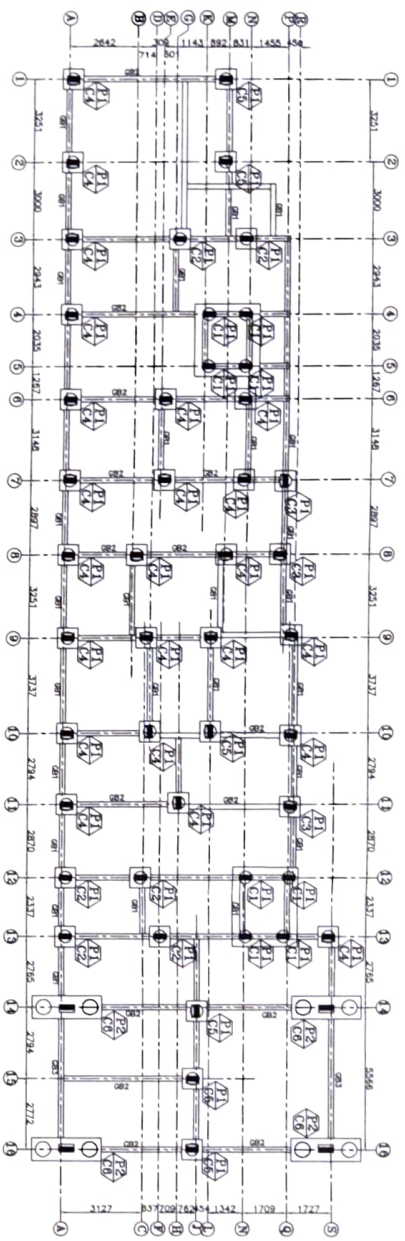
Date/Time: 08-Jan-2024 18:28

Y
X Z



Load 10

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.

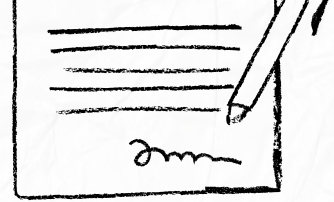


1. The primary structure is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
2. The secondary structure is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
3. The foundation is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
4. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
5. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
6. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
7. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
8. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
9. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
10. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
11. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
12. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
13. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
14. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars
15. The pile is to be built using the following materials:
 - a. Concrete: 2500 psi (17.2 MPa)
 - b. Reinforcing Steel: 60,000 psi (413.7 MPa)
 - c. 1/2" (12.7 mm) diameter steel reinforcement bars

ITEM	DATE	DESCRIPTION
1	10/10/2011	FOUNDATION DETAIL
2	10/10/2011	FOUNDATION DETAIL
3	10/10/2011	FOUNDATION DETAIL
4	10/10/2011	FOUNDATION DETAIL
5	10/10/2011	FOUNDATION DETAIL
6	10/10/2011	FOUNDATION DETAIL
7	10/10/2011	FOUNDATION DETAIL
8	10/10/2011	FOUNDATION DETAIL
9	10/10/2011	FOUNDATION DETAIL
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11	10/10/2011	FOUNDATION DETAIL
12	10/10/2011	FOUNDATION DETAIL
13	10/10/2011	FOUNDATION DETAIL
14	10/10/2011	FOUNDATION DETAIL
15	10/10/2011	FOUNDATION DETAIL

PROPOSED RESIDENTIAL APARTMENTS
AT THE BLOCK NO. 5847, 5848
& 5849, 25th STREET, KODAKURU,
CHENNAI- 600 080, COMPREHENSIVE
OLD S. Nos. : 1302/1A PART, 2B
PART, 1302/1A PART, 13 No. :
17-4/7/8, WARD - E, BLOCK No. 46 OF
KODAKURU VILLAGE, GREATER CHENNAI
CORPORATION, DIVISION No. : 80,
ZONE - VII

FOUNDATION DETAIL
SCALE: 1" = 10'
DATE: 10/10/2011
STRUCTURAL CONSULTANT:
C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No. SE/GR-1/19/02/002,
Door No. 21, 4th Main Road,
C. KANNAN NAGAR, Chennai-600 020.
DOB: 02/11/1971, APT. NO. 25/1, 1st
FLOOR, 4th MAIN ROAD,
KODAKURU, CHENNAI-600 080.
C-108, KODAKURU, CHENNAI-600 080.
C-108, KODAKURU, CHENNAI-600 080.



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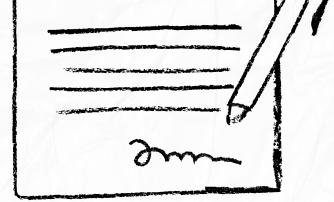
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Vastu & Property Management Tools

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We're honored to be part of your
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